MARSHALLEXCELSIOR
innovation made simple

2023-2024

INDUSTRIAL EQUIPMENT CATALOG

PLANT | TRANSPORTATION | **INDUSTRIAL** | DOMESTIC | RECREATIONAL

Contents

INTRODUCTION	01
OUR STORY	02-03
EXCELA-FLO REGULATORS	04-15
TRUCK AND PLANT EQUIPMENT	16-109
ACCU-MAX FLOAT GAUGES	110 -115
PRESSURE RELIEF VALVES & MANIFOLDS	116-125
DOT/ASME CONTAINER VALVES	126-127
DISPENSING VALVES & ADAPTERS	128-131
PIGTAILS, HOGTAILS & HOSE ASSEMBLIES	132-133
REPLACEMENT PARTS & REPAIR KITS	134-141
INDEX	142-144
WARRANTY	145-146

ABOUT THIS CATALOG

This catalog is designed to provide a comprehensive overview of Marshall Excelsior's industrial products. Due to the continuous development and additions to our product lines, this catalog may not include all products Marshall Excelsior offers. To see any new products that have been developed after this publication visit www.marshallexcelsior.com.

Pictures in this catalog will resemble the product shown. However, due to continuous improvements and changes in regulations, we do not guarantee that the picture in this catalog will be the exact replica of the product purchased. Any pictures shown in a group of products will resemble the other products being offered in the same group unless otherwise stated.

Marshall Excelsior is known for manufacturing primarily LP-Gas and anhydrous ammonia (NH3) equipment but our product line is capable of servicing many industries including but not limited to various gases, chemicals, fuels, water/oil transfer and storage and depending on trim and seal selection, can withstand extreme temperatures. With wide inventories and options, we are confident we can meet your needs.

This catalog is for general information only and should not be viewed as an all inclusive catalog of important technical information, regulations, warnings or installation instructions. Contact your authorized Marshall Excelsior Distributor or Marshall Excelsior for more information.

THE MEC STORY

Since 1976 Marshall Excelsior Company has been a progressive manufacturer of top quality and competitively priced chemical processing and transfer equipment that is leading the industry in **innovation and low emission products**. We offer a full range of products that support Bulk Plant, Transport, Delivery/Dispensing, and Domestic applications. As our product line continues to grow, we are striving to improve product functionality while taking the industry standards to a higher level of quality and performance without adding excessive cost. While following along this path, our engineering staff exercises a heavy reliance on the input from our customers throughout any new product design phase. It has been through these theories and approaches that we have been able to carve out our niche in an industry where safety and performance must work hand-in-hand. Our goal is to create the safest equipment solutions for everyday operations while allowing the largest amount of product to be transferred, dispensed, or otherwise used, resulting in an overall savings to the customer.

In addition to our company philosophy for new product development, you will find our approach to daily operations equally unique. In a time where materials, fuels, and other manufacturing costs are on the rise, we have not only remained competitive, but one of the industry leaders in on-time deliveries and short lead-times. The reason is simple; we not only manufacture our products effectively, but carry one of the most extensive on-hand inventories available in the industry. This allows our distributors to react quickly without having an excessive amount of stock on hand.

Put this together with our proactive, responsive sales and customer service staff and you have a winning combination.

As one of the industry leaders in responsiveness it is essential for our organization to be able to react in a rapid fashion, hence our fully integrated manufacturing and purchasing process. Our capabilities in manufacturing range from high volume to custom made product. Both of which are supported by our wide variety of manufacturing equipment, highly skilled personnel, and dedicated purchasing staff. Combine these attributes with our top notch ISO9001 quality system and you have a combination that easily rivals that of our nearest competition.

Over the course of time Marshall Excelsior Company has become a name that our customers can rely on not only for high quality products and services, but as a partner in building their business. Together, with our commitment to the industries served and our eagerness to improve and expand our product-line our customers routinely find the opportunity to promote our organization. It is through this personal touch that our business has become the organization that it is today.

MEC is innovation made simple

INDUSTRY INVOLVEMENT

APGA Alabama Propane Gas Association

Canadian Propane Association | Association canadienne du propane

CPGA

FPGA Florida Propane Gas Association

Georgia Propane Gas Association, Inc

Indiana propane gas association

OHIO PROPANE GAS ASSOCIATION

MAPGA MID ATLANTIC PROPANE GAS ASSOCIATION

Minnesota Propane Association Promoting smart energy

MPGA MICHIGAN PROPANE GAS ASSOCIATION

NPGA NATIONAL PROPANE GAS ASSOCIATION MEMBER

NFPA MEMBER

NMPGA New Mexico Propane Gas Association

PGANE PROPANE GAS ASSOCIATION OF NEW ENGLAND

PMPA Precision Machined Products Association

ENERGY FOR EVERYONE propane

PPGA PACIFIC PROPANE GAS ASSOCIATION

Rocky Mountain Propane Association

RVAA RECREATIONAL VEHICLE AFTERMARKET ASSOCIATION

SEPA SOUTHEAST PROPANE ALLIANCE

TENNESSEE PROPANE GAS ASSOCIATION

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Virginia Propane Gas Association

WIP 10 A Decade of Excellence Educate. Engage. Inspire.

WLPGA

WPGA WESTERN PROPANE GAS ASSOCIATION

ASME SETTING THE STANDARD

c UL us

CSA C US

NB

CRN CANADIAN REGISTRATION NUMBER

CGA Compressed Gas Association The Standard For Safety Since 1913

International Organization for Standardization ISO 9001:2015

ANAB ACCREDITED ISO/IEC 17021 MANAGEMENT SYSTEMS CERTIFICATION BODY

TRC The Registrar Company

MEMBER OF MULTILATERAL RECOGNITION ARRANGEMENT IAF

EVERYTHING STARTS WITH QUALITY

SINGLE STAGE
PRESSURE REDUCING

The **MEGR-1912 Series** regulators are direct-operated, spring-loaded models designed for use in a variety of service and industrial applications. These regulators have limited-capacity internal relief across the diaphragm to help minimize over pressurization.

The **MEGR-1912 Series** with capacity ratings of less than 320,000 BTU/hr (129 scfh), are often used on small portable outdoor appliances.

Underwriters Laboratories requires horizontally mounted regulators to be installed with vent opening protection to prevent blockage by freezing rain.

SPECIFICATIONS

Type: Single Stage
Max. Inlet Pressure: 250 PSI
Vent Screen: Monel
Gasket: CGR 2750
Relief Valve: Brass and Zinc
Control and Relief Valve Spring: Plated Steel
Diaphragm Assembly: Nitrile (NBR) with Zinc disk
Spring Case: Die Cast - Zinc
Spring Seat: Plated Steel
Diaphragm Plate: Plated Steel
Body Material / Lower Casting: Die Cast - Zinc
Temperature Range: -20° to 170° F
Approximate Weight: 1.3 lbs.

MEGR-1912 Series

Part No.	Inlet x Outlet Connection Style	Orifice Sizes, Inches (mm)	Outlet Pressure Setting	Outlet Pressure Ranges, Inches W.C. (mbar)	Vent Orientation	BTU/H LPG @ 100 PSI Inlet
MEGR-1912/101	1/4" x 3/8" FNPT	0.073 (1,8)	11-inches w.c. (27 mbar)	9.25 to 13 (23 to 32)	Over Outlet	242,953
MEGR-1912/104	1/4" x 1/4" FNPT	0.073 (1,8)	11-inches w.c. (27 mbar)	9.25 to 13 (23 to 32)	Over Outlet	242,953
MEGR-1912/109	1/4" x 3/8" FNPT	0.073 (1,8)	7-inches w.c. (17 mbar)	5 to 10 (12 to 25)	Over Outlet	242,953
MEGR-1912/197	1/4" x 3/8" FNPT	0.094 (2,4)	20-inches w.c. (50 mbar)	12 to 24 (30 to 60)	Over Outlet	313,488
MEGR-1912H/108	1/4" x 3/8" FNPT	0.094 (2,4)	1.5 PSI (103 mbar)	0.8 to 2.7 psi (34 to 186 mbar)	Over Outlet	297,814
MEGR-1912H/520	1/4" x 1/4" FNPT	0.094 (2,4)	3.5 PSI (241 mbar)	2.7 to 5 psi (186 to 345 mbar)	Over Outlet	- - - -

NOTE: Other configurations and materials available upon request

BUILT & TESTED IN THE USA

HIGH PRESSURE

The **MEGR-130 series** fixed high pressure single stage regulators are designed to provide an economical solution for pounds to pounds service applications. The MEGR-130 can be used to regulate air as well as gas. Regulators must be installed in compliance with federal, state or local codes or laws in accordance with NFPA 58.

MEGR-130-30
Pre-Set at 30 PSIG

Non-Adjustable Configurations	
Part No.	Description
MEGR-130-05	Compact High Pressure Fixed Reg 5 PSI - 1/4" FNPT Inlet/Outlet
MEGR-130-10	Compact High Pressure Fixed Reg 10 PSI - 1/4" FNPT Inlet/Outlet
MEGR-130-20	Compact High Pressure Fixed Reg 20 PSI - 1/4" FNPT Inlet/Outlet
MEGR-130-30	Compact High Pressure Fixed Reg 30 PSI - 1/4" FNPT Inlet/Outlet
MEGR-130-50	Compact High Pressure Fixed Reg 50 PSI - 1/4" FNPT Inlet/Outlet
MEGR-130-80	Compact High Pressure Fixed Reg 80 PSI - 1/4" FNPT Inlet/Outlet

SPECIFICATIONS

Type: Adjustable or Fixed / PSI
Max. Inlet Pressure: 250 PSIG (17,2 bar)
Inlet Connection: 1/4" FNPT
Outlet Connection: 1/4" FNPT
Orifice Diameter: 0.0625"
Exterior Finish: Red Anodized
Diaphragm: Fabric Reinforced Buna N
Bonnet/Body Material: Die Cast Zinc
BTU / H Capacity: 1,200,000 BTU/H @ 40 PSI
Listings: UL LISTED / UL 144

BUILT & TESTED
IN THE USA

MEGR-350 Series -Single stage, adjustable high pressure regulator. The body and bonnet of both the fixed and adjustable regulators are precisely machined and feature a crimped design and fabric reinforced rubber diaphragm creating a positive seal for leak-free performance.

MEGR-360 with the Type I (QCC) is designed specifically for appliances such as turkey fryers, fish fryers, camp stoves and torch applications that require pounds to pounds pressure instead of inches water column. These regulators will meet or exceed most requirements on a specific outlet setting (0-10 PSI) depending on the application.

MEGR-350
Adjustable 0-10 PSIG

Adjustable Configurations	
Part No.	Description
MEGR-350	Compact High Press. Adjustable Reg 0-10 PSI - 1/4" FNPT Inlet/Outlet
MEGR-350-20	Compact High Press. Adjustable Reg 0-20 PSI - 1/4" FNPT Inlet/Outlet
MEGR-350-30	Compact High Press. Adjustable Reg 0-30 PSI - 1/4" FNPT Inlet/Outlet
MEGR-351	Compact High Pressure Adjustable Reg 0-10 PSI - Full Flow POL x 1/4" FNPT
MEGR-360	Compact High Pressure Adjustable Reg 0-10 PSI - Black F. QCC x 1/4" FNPT

NOTE: Not designed to provide 100% shutoff of flow

HIGH PRESSURE

The **MEGR-6120 Series** are UL listed high-pressure regulators that meet a variety of applications for liquid or vapor service. The compact body design makes these regulators particularly useful in installations with space limitations. The basic MEGR-6120 Series regulators come equipped with a handwheel adjustment. The non-adjustable ME6121 Series provides a tamper-resistant spring case and one of seven fixed set points: 5, 10, 20, 30, 40, 50, or 60 PSI.

The MEGR-6120 & MEGR-6121 Series are UL listed as high pressure, non-relief regulators. Both MEGR-6120 & MEGR-6121 Series regulators contain brass materials that are not compatible with anhydrous ammonia service.

SPECIFICATIONS

Type: Adjustable or Fixed / PSI
Max. Inlet Pressure: 250 PSI (17, 2 bar)
Inlet Connection: 1/4" FNPT
Outlet Connection: 1/4" FNPT
Gauge Port: 1/4" FNPT
Exterior Finish: Red Wet Coat
Diaphragm: Fabric Reinforced Buna N
Body / Bonnet Material: Die Cast Aluminum
Liquid Capacity: 3-5 GPH
Listings: UL LISTED / UL 144

MEGR-6120 Series

Adjustable Configurations	
Part No.	Description
MEGR-6120-30	High Pressure Adjustable Reg 1-30 PSI - 1/4" FNPT Inlet/Outlet
MEGR-6120-60	High Pressure Adjustable Reg 1-60 PSI - 1/4" FNPT Inlet/Outlet
MEGR-6120-100	High Pressure Adjustable Reg 1-100 PSI - 1/4" FNPT Inlet/Outlet

CAPACITIES: BTU/H LPG (VAPOR)		
Outlet Set Point	Inlet Pressure	BTU / HR
15 PSI 15 PSI 15 PSI	50 PSI 100 PSI 150 PSI	850,000 1,700,000 2,500,000
20 PSI 20 PSI	50 PSI 100 PSI	900,000 1,800,000
40 PSI 40 PSI	100 PSI 150 PSI	1,500,000 2,000,000
50 PSI 50 PSI 50 PSI	100 PSI 150 PSI 200 PSI	1,300,000 1,800,000 2,300,000
Approximate BTU/H vapor capacities taking 10-20% droop into consideration Note: Side Outlet Connection Style (Plugged): 1/4" MNPT, pressure gauge (MEJ500 Series) can be installed		

MEGR-6121 Series

Non-Adjustable Configurations	
Part No.	Description
MEGR-6121-05	High Pressure Fixed Reg 5PSI - 1/4" FNPT Inlet/Outlet
MEGR-6121-10	High Pressure Fixed Reg 10PSI - 1/4" FNPT Inlet/Outlet
MEGR-6121-20	High Pressure Fixed Reg 20PSI - 1/4" FNPT Inlet/Outlet
MEGR-6121-30	High Pressure Fixed Reg 30PSI - 1/4" FNPT Inlet/Outlet
MEGR-6121-40	High Pressure Fixed Reg 40PSI - 1/4" FNPT Inlet/Outlet
MEGR-6121-50	High Pressure Fixed Reg 50PSI - 1/4" FNPT Inlet/Outlet
MEGR-6121-60	High Pressure Fixed Reg 60PSI - 1/4" FNPT Inlet/Outlet

The **MEGR-164 Series** adjustable high-pressure regulators offer a wide selection of available pressure ranges. High pressure regulators are typically used to reduce tank pressure to an intermediate pressure for use by another regulator. They may be used as high pressure regulators on distribution systems when used in conjunction with first-stage downstream regulators.

When equipped with an integral relief valve (MEGR-164SR Series), the regulator may be used as a final-stage regulator on high pressure systems. It may also be used as a first-stage regulator when set at 10 PSIG (0,69 bar) or less. The 1/4"-inch FNPT tapped side outlet can be used to install a pressure gauge or a hydrostatic relief valve. This series contains brass materials that are not compatible with anhydrous ammonia service.

SPECIFICATIONS

Type: Adjustable/ PSI
Max. Inlet Pressure: 250 PSI
Inlet Connection: 1/2" FNPT or 3/4" FNPT
Outlet Connection: 1/2" FNPT or 3/4" FNPT
Exterior Finish: Gray Urethane
Regulator Spring: Steel
Stem Guide/Disk Holder: Stainless Steel
Diaphragm: Fabric Reinforced Nitrile (NBR)
Bonnet/Body Material: Cast Aluminum
Vent: Non-Relieving
Operating Temperature Range: -40° to 200° F
Listings: UL LISTED / UL 252

MEGR-164 Series

Part No.	Description	Outlet Pressure Setting, PSIG	Outlet Adjustment Range, PSIG	BTU/H * LPG @ 60 PSI Inlet	BTU/H * LPG @ 100 PSI Inlet
MEGR-164/33	1/2" FNPT x 1/2" FNPT Adjustable High Pressure Regulator	10	0-30	6,098,000	6,800,000
MEGR-164/35		20	0-30	6,400,000	8,335,000
MEGR-164/36		40	0-60	6,100,000	9,145,000
MEGR-164/222		50	0-125	4,900,000	7,225,000
MEGR-164SR/21	1/2" FNPT x 1/2" FNPT Adjustable High Pressure Regulator w/ Internal Relief Valve	10	0-15	4,675,000	7,825,000
MEGR-164SR/22		15	0-30	3,050,000	4,125,000
MEGR-164SR/23		20	0-30	3,405,000	4,755,000
MEGR-164-6/33	3/4" FNPT x 3/4" FNPT Adjustable High Pressure Regulator	10	0-30	9,150,000	10,875,000
MEGR-164-6/35		20	0-30	10,105,000	12,400,000
MEGR-164-6/36		40	0-60	9,960,000	13,415,000
MEGR-164-6/222		50	35-100	4,575,000	11,890,000
* BTU/H Capacity @ 20% Droop					

RECOMMENDED TO USE WITH EXTERNAL PRESSURE RELIEF DEVICE SUCH AS MEGR-1290 SERIES

BUILT & TESTED IN THE USA

HIGH PRESSURE INDUSTRIAL
HIGH TEMPERATURE

The **MEGR-2104/MEGR-2106 Series** is a highly reliable and accurate adjustable high-pressure regulator designed to offer a wide selection of available pressure ranges for LPG and NH3 applications. With models designed to reduce container pressure to between 3 PSI-125 PSI coupled with the high BTU delivery capacity, this regulator series is perfect for a wide range of high demand industrial/commercial LPG applications such as temporary heat, grain drying, asphalt heaters, agriculture and manufacturing process applications along with alternate trim construction models for industrial NH3 Applications.

All models feature a convenient factory plugged ¼"FNPT tapped auxiliary port allowing for easy installation of a pressure gauge or test port.
Models available with three different seal trim levels for LPG, NH3 and High temperature applications:
Nitrile - Standard LPG Service (-40° – 170°F.)
FKM - High Temperature LPG Service (0° – 300°F.)
NBR/PTFE - NH3 Service (-40° – 170°F.)

MEGR-2104 Series
Standard / High Temp
LPG Service

MEGR-2106 Series
NH3 Service

SPECIFICATIONS

Type: Adjustable/ PSI
Max. Inlet Pressure: 400 PSI
Inlet Connection: 1/2", 3/4" or 1" FNPT
Outlet Connection: 1/2", 3/4" or 1" FNPT
Exterior Body Finish: Red Urethane: Standard/High Temp Models; Green Urethane: NH3 Models;
Body Exterior Finish: Gray Urethane
Regulator Spring: Steel / Stainless Steel
Stem Guide/Disk Holder: Stainless Steel
Diaphragm: Fabric Reinforced Nitrile (NBR) for standard, FKM for High Temp., NBR with PTFE for NH3
Bonnet/Body Material: Die Cast Aluminum
Vent: Non-Relieving
Listings: CSA LISTED / UL 144

Part No.	Service	Inlet & Outlet Connections	Recommended Delivery Pressure Range (PSIG)	Capacity determined @ set pressure of PSIG*	Flow Capacity**
MEGR-2104NL/4	LP-Gas	1/2" FNPT	3-30	20	7,000,000 BTU/hr. LPG
MEGR-2104NM/4			25-50	30	10,000,000 BTU/hr. LPG
MEGR-2104NH/4			45-125	60	10,000,000 BTU/hr. LPG
MEGR-2104VL/4	LP-Gas (High Temp)		3-30	20	7,000,000 BTU/hr. LPG
MEGR-2104VM/4			25-30	30	10,000,000 BTU/hr. LPG
MEGR-2104TL/4	NH_3		3-25	20	4,500 CFH NH_3
MEGR-2104TM/4			20-50	30	4,800 CFH NH_3
MEGR-2104TH/4			45-125	60	5,100 CFH NH_3
MEGR-2106NL/6	LP-Gas	3/4" FNPT	3-30	20	7,500,000 BTU/hr. LPG
MEGR-2106NM/6			25-50	30	14,000,000 BTU/hr. LPG
MEGR-2106NH/6			45-125	60	14,000,000 BTU/hr. LPG
MEGR-2106VL/6	LP-Gas (High Temp)		3-30	20	7,500,000 BTU/hr. LPG
MEGR-2106VM/6			25-50	30	14,000,000 BTU/hr. LPG
MEGR-2106TL/6	NH_3		3-25	20	7,700 CFH NH_3
MEGR-2106TM/6			20-50	30	7,700 CFH NH_3
MEGR-2106TH/6			45-125	60	8,900 CFH NH_3
MEGR-2106NL/8	LP-Gas	1" FNPT	3-30	20	7,500,000 BTU/hr. LPG
MEGR-2106NM/8			25-50	30	14,000,000 BTU/hr. LPG
MEGR-2106NH/8			45-125	60	14,000,000 BTU/hr. LPG
MEGR-2106VL/8	LP-Gas (High Temp)		3-30	20	7,500,000 BTU/hr. LPG
MEGR-2106VM /8			25-50	30	14,000,000 BTU/hr. LPG

* Set pressure is established with 100 PSIG inlet pressure and a flow of 500,000 BTU/hr. propane for LPG service and 180 CFH NH_3
** Capacity determined at 100 PSIG inlet, set pressure note on chart at 20% droop

HIGH PRESSURE

The **MEGR-11301F** is a reliable and accurate regulator making it ideal for numerous high pressure applications. This multi-purpose regulator can be used as a pilot supply or pressure-loading regulator where high pressure operating medium must be reduced for use by gas regulator pilots or pressure-loaded regulators. Its rugged design and multiple outlet ports offer versatility for a wide variety of applications.

SPECIFICATIONS

Type: Adjustable / PSI
Max. Inlet Pressure: 5500 PSIG
Inlet Connection: 1/4" FNPT (1 Port)
Outlet Connection: 1/4" FNPT (3 Ports)
Exterior Finish: Brass
Bonnet / Body Material: Brass
Bottom Cap and Spring Case: Brass
Gasket: Nitrile (NBR)
Valve Spring: Stainless Steel
Diaphragm: Stainless Steel
Valve Disks: Nylon
Vent: 4 Holes (5/32" each)
Temp. Range: -40° F. / 225° F.

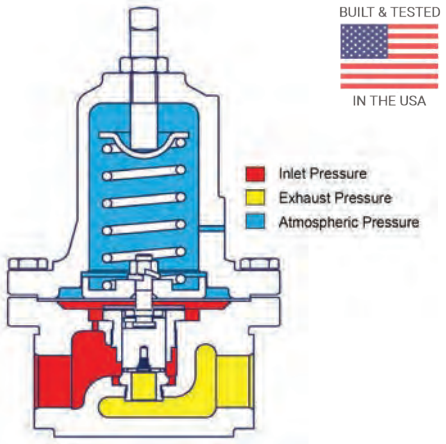
Part No.	Description	Inlet (1 Port)/ Outlet (3 Ports)	Outlet Pressure Range (PSIG)
MEGR-11301F	High Pressure Regulator	1/4" FNPT	0-120

LIQUID BACKPRESSURE/RELIEF VALVE

The **MEGR-198H Series**, liquid service valves are direct-operated relief valves for use on relief and backpressure applications involving large LP-Gas pumping systems and vaporizers. Internal pressure registration eliminates the need for a control line.

SPECIFICATIONS

Type: Adjustable / PSI
Orifice Material: Stainless Steel
Max. Inlet Pressure: 300 PSIG
Regulator Spring: Plated Steel
O-Ring Seat: Nitrile (NBR)
Exterior Finish: Gray Powder Coat
Diaphragm: Stainless Steel
Body Material / Spring Case: Iron



Part No.	Inlet/Outlet Size	Relief Pressure Setting PSIG (BAR)	Outlet Range PSIG (BAR)	Relief Capabilities GPM/LPG	
				10 PSI Over Set P oint	50 PSI Over Set Point
MEGR-198H-22	3/4" FNPT	100 (6.9)	70 to 140 (4.8 to 9.7)	49	93
MEGR-198H-30	1" FNPT	100 (6.9)	70 to 140 (4.8 to 9.7)	49	93
MEGR-198H-31	1" FNPT	175	130-200	52	109

COMMERCIAL / INDUSTRIAL
FIRST STAGE / HIGH PRESSURE

The **MEGR-1627 Series** commercial/industrial regulator is a large capacity, high pressure unit for use in conjunction with MEGR-CS1200 or MEGR-S1202 Series regulators. It can also be used on final-stage (PSI to PSI) service. The diaphragm case and/or regulator body on the MEGR-1627 Series can be rotated in any of four positions to allow installation in locations with limited space. Available with a monitor or integral relief valve. The MEGR-1627 Series is perfectly suited for jurisdictional systems, grain dryers, direct fired vaporizers or other high capacity service applications.

The MEGR-1630 Series First Stage / Industrial regulators are large capacity, high pressure units for use in conjunction with MEGR-S1202 Series regulators. They can also be used on final stage (pounds-to-pounds) service. These regulators are best suited for industrial applications where high flow capacity is required.

SPECIFICATIONS

Type: Adjustable / PSI
Orifice Diameter: 3/8" or 1/2"
Orifice Material: Aluminum
Max. Inlet Pressure: 250 PSI
Regulator Spring: Steel
Stem Guide / Disk Holder: Stainless Steel
Valve Stem: Steel
Exterior Finish: Grey Powder Coat
Diaphragm: Fabric Reinforced Nitrile (NBR)
Bonnet Cap & Housing/Body Material: Cast Aluminum/ Iron
Temp. Range: -20° F. / 180° F.
Listings: Select models are UL Listed / UL 144

MEGR-1630-104/78

MEGR-1627 Series

Part No.	Description	Inlet/Outlet	Orifice	PSIG Outlet Set Point	PSIG Outlet Range	BTU/H LPG @ 100 PSI Inlet	BTU/H LPG @ 20 PSI Inlet
MEGR-1627/497	First Stage High Pressure Regulator	1" FNPT	1/2"	20	15-40	36,600,000	6,050,000
MEGR-1627/576		2" FNPT	1/2"	10	5-20	45,000,000	6,003,000
MEGR-1627/5810*		3/4" FNPT	3/8"	10	5-20	11,700,000	4,700,000
MEGR-1627/6210*		3/4" FNPT	1/2"	10	5-20	12,400,000	6,700,000
MEGR-1627/7710		1" FNPT	1/2"	10	5-20	25,100,000	6,900,000
MEGR-1627B/7710*	First Stage High Pressure - Perpendicular Body	1" FNPT	1/2"	10	5-20	25,100,000	6,900,000
MEGR-1627M/267	First Stage High Pressure Regulator - w/ Monitor	2" FNPT	1/2"	10	5-20	36,100,000	6,003,000
MEGR-1627M/471		1" FNPT	1/2"	10	5-20	25,100,000	6,900,000
MEGR-1627R/113	First Stage High Pressure w/ Relief	3/4" FNPT	3/8"	10	5-20	9,800,000	4,200,000
MEGR-1627V/5810	First Stage High Pressure - FKM construction **	3/4" FNPT	3/8"	10	5-20	11,700,000	4,700,000
MEGR-1627V/7710		1" FNPT	1/2"	10	5-20	25,100,000	6,900,000

* UL Listed / UL 144
** For high temperature applications such as vaporizers

Part No.	Description	Inlet/Outlet	Orifice	PSIG Outlet Set Point	Outlet PSIG Range	*SCFH/ HR LPG	BTU/H LPG @ 100 PSI Inlet	BTU/H LPG @ 20 PSI Inlet
MEGR-1630-104/78	First Stage Regulator	2" FNPT	1/2"	10	8-20	18,900	47,000,000	7,700,000

Note: Other configurations and materials available upon request.

BUILT & TESTED IN THE USA

SECOND STAGE / LOW PRESSURE

The **MEGR-S1202/MEGR-CS1200 Series** commercial/industrial regulators are large capacity, low pressure second stage units for installation at schools, bakeries, and similar applications. They contain a limited capacity internal relief valve and can be used in conjunction with either MEGR-1627 Series or MEGR-1630 Series high-pressure regulators.
For high capacity installations, the MEGR-1289H Series relief valve is required to be installed in the downstream system.

MEGR-1HSRL Series: Offers a full size high capacity light commercial type regulator with an adjustment range from 6-14" WC (factory set @ 11" WC), a heavy duty cast iron body with a universal body to bonnet union for fast relocation of inlet to outlet vent location. These light commercial second stage regulators are used to reduce outlet pressures from first stage regulators (normally 10 PSI) to 11" WC.

SPECIFICATIONS

Type: Adjustable / Inches WC or PSI
Orifice Diameter: 3/8", 5/16", 1/2" or 1"
Max. Inlet Pressure: 25 PSIG
Body Material: Cast Iron
Regulator Spring: Music Wire
Spring Case/ Stem Guide/ Disk Holder: Aluminum
Disk/ Diaphragm and O-Ring: Fabric Reinforced Nitrile (NBR)
Closing Cap Gasket: Neoprene

MEGR-1HSRL Series

MEGR-CS1200 Series

MEGR-S1202 Series

BUILT & TESTED
IN THE USA

Part No.	Description	Inlet/Outlet Connection Style	Orifice	Oulet Pressure Range	Oulet Pressure Setting	Maximum Operating Inlet Pressure	BTU/H LPG @ 25 PSI Inlet	BTU/H LPG @ 10 PSI Inlet
MEGR-1HSRL-BFC	Second Stage Low Pressure Regulator	3/4" FNPT	3/8"	6-14" WC	11" WC	40 PSIG	–	2,000,000
MEGR-1HSRL-CFC		1" FNPT	3/8"	6-14" WC	11" WC	40 PSIG	–	2,500,000
MEGR-CS1200IR6EC1		3/4" FNPT	1/2"	6-14" WC	11" WC	25 PSIG	2,100,000	1,600,000
MEGR-CS1200IR6EC3		1" FNPT	1/2"	6-14" WC	11" WC		2,500,000	1,900,000
MEGR-CS1200IR6EC6		1-1/4" FNPT	1/2"	6-14" WC	11" WC		3,100,000	2,800,000
MEGR-CS1200IR7EC1		3/4" FNPT	5/16"	6-14" WC	7" WC		*1,250,000	*985,000
MEGR-CS1200IR7EC3		1" FNPT	5/16"	6-14" WC	7" WC		*1,620,000	*1,525,000
MEGR-S1202G-BNC		1-1/2" FNPT	1"	9 - 18" WC	11" WC		14,700,000	10,800,000
MEGR-S1202G-CNC		2" FNPT	1"	9 - 18" WC	11" WC		30,000,000	23,000,000
MEGR-S1202H-CNK		2" FNPT	1"	1.5-3.25 PSI	2 PSI		22,200,000	10,300,000

Note: Other configurations and materials available upon request.
WC = Water Column

* Flow Rates listed in BTU Natural Gas

COMMERCIAL / INDUSTRIAL

SECOND STAGE

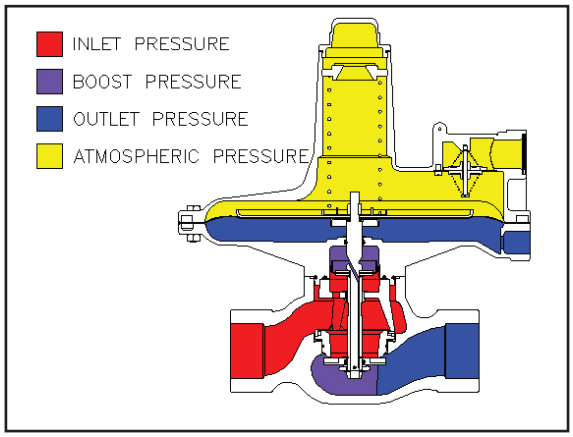
The **MEGR-1133 Series Pressure Regulator:** Manual, direct acting, self-operating, spring loaded, adjustable regulator. It is used in applications where pressure reduction is required. The regulator will reduce the risk of "shock" from abrupt changes of downstream conditions. This can help prevent safety equipment from shutting an operation down. The MEGR-1133 is equipped with external pressure registration; an external control line is needed to connect the output pressure port with the diaphragm chamber. The MEGR-1133 utilizes a balance diaphragm to reduce the effects of supply pressure changes on the output pressure. The external pressure registration of the standard MEGR-1133 also allows it to be used as a monitor regulator.

SPECIFICATIONS

Maximum Operating Inlet: 60 PSIG
Maximum Emergency Inlet: 125 PSIG
Maximum Operating Outlet:
MEGR-1133L - 2 PSIG
MEGR-1133H - 10 PSIG
End Connections: 2" NPT
Temperature Range: -40°F to 200°F

MATERIALS OF CONTRUCTION

Body: Iron
Bonnet: Aluminum
Orifice: Aluminum
Regulator Spring: Steel
Stem Guide/Disk Holder: Aluminum
Valve Stem: Aluminum
Diaphragm: Fabric Reinforced Nitrile (NBR)
Exterior Finish: Gray Powder Coat



Part No.	Description	Inlet/Outlet	Orifice	Range of Adjustment	Outlet Set Point	BTU/H LPG @ 10 PSI Inlet	BTU/H LPG @ 20 PSI Inlet
MEGR-1133H-2	Second Stage Regulator	2" FNPT	2"	2-5 PSI	2 PSI	27,405,000	52,700,000
MEGR-1133H-3	Second Stage Regulator	2" FNPT	2"	5-10 PSI	5 PSI	22,300,000	41,600,000
MEGR-1133L-4	Second Stage Regulator	2" FNPT	2"	8.5"-18" WC	14" WC	45,600,000	77,100,000
MEGR-1133L-6	Second Stage Regulator	2" FNPT	2"	.75-2 PSI	2 PSI	46,700,000	77,100,000

Note: Other configurations available upon request

BUILT & TESTED
IN THE USA

VAPOR BACKPRESSURE / RELIEF VALVES

Available in settings ranging between 1 to 75 PSIG for the 3/4" & 1" models and 7"WC to 15 PSI for the 2" models. The **MEGR-1289H Series** relief valve is a throttling relief valve used downstream of pressure regulators to protect the downstream system from overpressure. A smooth throttling action minimizes pressure surges in the system during emergency operation.

This unit features a pilot tube booster to achieve the highest possible relief capacity with a minimum buildup of system pressure.

The MEGR-1289H Series relief valve is installed between large second stage regulators and the burner to provide high capacity relief. They are ideal for low pressure settings due to the increased sensitivity provided by the large diaphragm area. Suitable as a pressure high capacity relief device when installed between a first and second stage regulator.

SPECIFICATIONS

Type: Adjustable / Inches WC or PSI

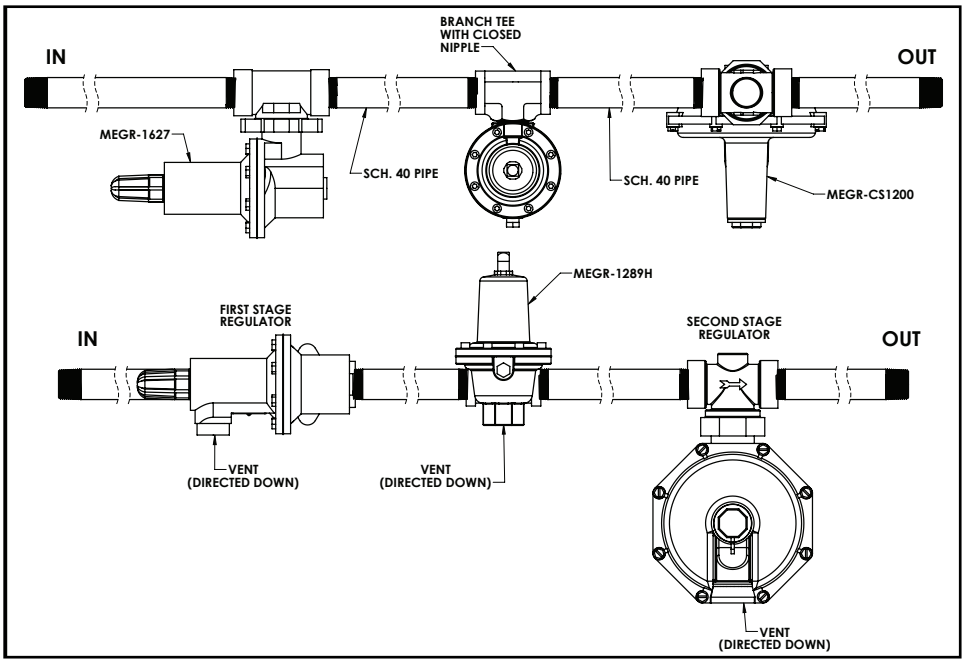
Max. Inlet Pressure: 100 PSIG (1" Body)
25 PSIG (2" Body)

Spring: Plated Steel

Exterior Finish: Gray Powder Coat

Diaphragm: Fabric Reinforced Nitrile (NBR)

Bonnet/Body Material: 1" - All Aluminum
2" - Aluminum Bonnet / Iron Body



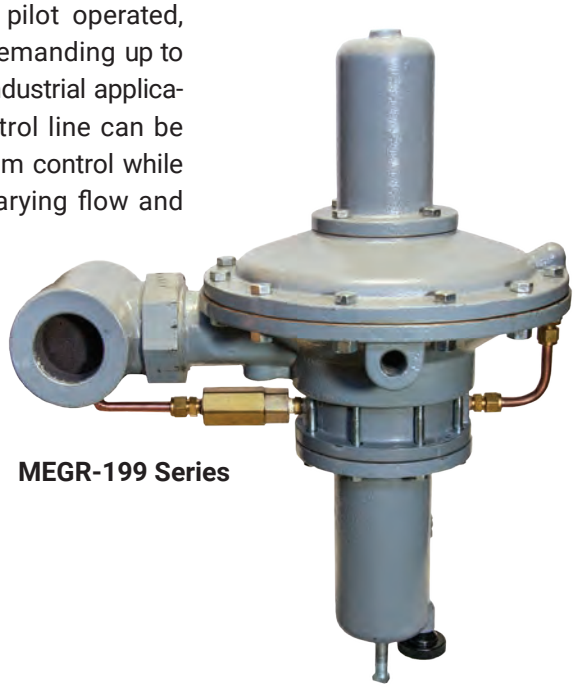
BUILT & TESTED
IN THE USA

Part No.	Description	Inlet/ Outlet	Max. Inlet PSIG	Set Point	Set Point Range	SCFH / Propane
MEGR-1289H/1	Back Pressure Regulator/ Relief Valve	2" FNPT	25	9" WC	7-18" WC	55,000
MEGR-1289H/2	Back Pressure Regulator/ Relief Valve	2" FNPT	25	1 PSIG	.5-2.25 PSIG	55,500
MEGR-1289H/3	Back Pressure Regulator/ Relief Valve	2" FNPT	25	3 PSIG	1.75-7 PSIG	58,000
MEGR-1289H/4	Back Pressure Regulator/ Relief Valve	2" FNPT	25	6 PSIG	4-10 PSIG	58,500
MEGR-1289H/5	Back Pressure Regulator/ Relief Valve	2" FNPT	25	12 PSIG	10-15 PSIG	61,000
MEGR-1289H/41	Back Pressure Regulator/ Relief Valve	1" FNPT	100	2 PSIG	1-4.5 PSIG	45,500
MEGR-1289H/42	Back Pressure Regulator/ Relief Valve	1" FNPT	100	8 PSIG	4-15 PSIG	46,000
MEGR-1289H/43	Back Pressure Regulator/ Relief Valve	1" FNPT	100	15 PSIG	10-20 PSIG	48,000
MEGR-1289H/49	Back Pressure Regulator/ Relief Valve	1" FNPT	100	25 PSIG	15-50 PSIG	49,000
MEGR-1289HH-1	Back Pressure Regulator/ Relief Valve	1" FNPT	100	50 PSIG	45-75 PSIG	50,000
MEGR-1290H/43	Back Pressure Regulator/ Relief Valve	3/4" FNPT X 1" FNPT	100	15 PSIG	10-20 PSIG	40,000
MEGR-1290H/49	Back Pressure Regulator/ Relief Valve	3/4" FNPT X 1" FNPT	100	25 PSIG	15-50 PSIG	50,000

Note: Other configurations and materials available upon request.

COMMERCIAL/INDUSTRIAL
PILOT OPERATED

The **MEGR-199 Series Industrial Regulators:** Large capacity, pilot operated, low or high pressure units for use in applications with loads demanding up to 75,000,000 BTU/H capacity. These regulators are best suited for industrial applications where high flow capacity and a downstream monitor control line can be applied. The MEGR-199 series provides exceptional downstream control while operating at very high capacities with minimal droop under varying flow and inlet pressures.



MEGR-199 Series

SPECIFICATIONS

Type: Adjustable/PSI/WC
Max. Inlet Pressure: 150-300 PSI
Exterior Finish: Gray Powder Coat
Orifice Size: 7/8" or 1-1/8"
Orifice Material: Stainless Steel
Regulator Spring: Steel
Diaphragm Plate: Steel
Diaphragm: Fabric Reinforced Nitrile (NBR)
Body Material: Iron
Bonnet Cap & Bonnet: Iron

Part No.	Description	Inlet/ Outlet	Max. Pressure	Orifice	Range of Adjustment	Outlet Set Point	BTU/H LPG @ 20 PSI Inlet(1)
MEGR-199-501P	Pilot Operated Low Pressure Regulator	2" FNPT	150	1-1/8"	7" WC-2 PSI	1	48,825,000
MEGR-199-503P	Pilot Operated Low Pressure Regulator	2" FNPT	150	1-1/8"	2-10 PSI	10	61,425,000
MEGR-199-504P	Pilot Operated Low Pressure Regulator	2" FNPT	150	1-1/8"	5-15 PSI	15	63,000,000
MEGR-199-510P	Pilot Operated High Pressure Regulator	2" FNPT	250	7/8"	7" WC-2 PSI	1	29,295,000
MEGR-199-511P	Pilot Operated High Pressure Regulator	2" FNPT	250	7/8"	1-5 PSI	5	33,075,000
MEGR-199-512P	Pilot Operated High Pressure Regulator	2" FNPT	250	7/8"	5-15 PSI	15	37,800,000
MEGR-199-513P	Pilot Operated High Pressure Regulator	2" FNPT	250	7/8"	2-10 PSI	10	36,225.000
MEGR-199-515P	Pilot Operated High Pressure Regulator	2" FNPT	250	7/8"	10-20 PSI	20	40,950,000
MEGR-199-903P	Pilot Operated High Pressure Regulator	2" FNPT	250	7/8"	10-65 PSI	30	44,100,000
MEGR-199-502PH	Pilot Operated High Pressure Regulator	2" FNPT	300	1-1/8"	1-5 PSI	5	55,125,000
MEGR-199-503PH	Pilot Operated High Pressure Regulator	2" FNPT	300	1-1/8"	2-10 PSI	10	61,425,000
MEGR-199-504PH	Pilot Operated High Pressure Regulator	2" FNPT	300	1-1/8"	5-15 PSI	15	63,000,000
MEGR-199-505PH	Pilot Operated High Pressure Regulator	2" FNPT	300	1-1/8"	10-20 PSI	20	67,725,000
MEGR-199-901PH	Pilot Operated High Pressure Regulator	2" FNPT	300	1-1/8"	10-65 PSI	30	74,025,000
MEGR-199M-504PH	Monitor Pilot Operated High Pressure Regulator	2" FNPT	300	1-1/8"	5-15 PSI	15	42,650,000
MEGR-199M-505PH	Monitor Pilot Operated High Pressure Regulator	2" FNPT	300	1-1/8"	10-20 PSI	20	67,725,000
MEGR-199M-901PH	Monitor Pilot Operated High Pressure Regulator	2" FNPT	300	1-1/8"	10-65 PSI	30	74,025,000

(1) Capacity based on inlet pressures 20 PSIG greater than outlet pressure set point and 20% droop.

BUILT & TESTED
IN THE USA

COMMERCIAL/INDUSTRIAL OPTIONS

MEGR-1627 Series First Stage Regulator Options Chart

Base	Relief/Monitor		Body Options	Orifice	Adjustment Range	Spring
P/N	Code	Description	Description	Size	Description	Color
MEGR-1627	M	Monitor	3/4"FNPT	1/8"	5-20PSI	Yellow
	R	Token Relief	1"FNPT	3/16"	15-40PSI	Green
	-	Non-Relieving	2"FNPT	1/4"	10-95PSI	Blue
				3/8"	70-150PSI	Red
				1/2"		

MEGR-1289/1290 Series Commercial Regulator Relief Valve Options Chart

Base	Pressure		Body Options	Adjustment Range
P/N	Code	Description	Description	Description
MEGR-1289	H	High	1"FNPT	7-18"WC*
	L	Low	2"FNPT	10-14"WC**
				.5-2.25PSI*
MEGR-1290	H	High	3/4"FNPT	1.75-7PSI*
	L	Low	-	4-10PSI*
				10-15PSI*
				1-4.5PSI**
				4-15PSI**
				10-20PSI**
				15-50PSI**
				45-75PSI***

*** Note - Available In 2" Body Only.**
**** Note - Available in 3/4" or 1" Body Only.**
***** Note - Available in 3/4" or 1" HH Body Only.**

MEGR-1HSRL Series House Service Regulator P/N Configurator Chart

Base	Body Options		Orifice		Adjustment Range	
P/N	Code	Description	Code	Size	Code	Description
MEGR-1HSRL	B	3/4"FNPT	C	1/8"	A	3.5-6.5"WC
	C	1"FNPT	D	3/16"	B	5-8.5"WC
	B/C	3/4 x 1"FNPT	E	1/4"	C	6-14"WC
			F	3/8"	D	12-33"WC
			G	1/2"	E	.5-2PSI
					F	.5-3PSI

MEGR-CS1200 Series Second Stage Commercial Regulator P/N Configurator Chart

Base	Sensing		Relief		Orifice		Adjustment Range		Body Options	
P/N	Code	Description	Code	Description	Code	Size	Code	Description	Code	Description
MEGR-CS1200	I	Internal	R	Internal	1	1/8"	A	3.5-6.5"WC	C1	3/4"FNPT
					2	3/16"	C	5-8.5"WC	C3	1"FNPT
					3	1/4"	E	6-14"WC	C6	1-1/4"FNPT
					7	5/16"	F	12-33"WC		
					5	3/8"	G	.5-2PSI		
					6	1/2"	H	.5-3PSI		
					8	5/8"	I	2-5PSI		

MEGR-S1202 Series Second Stage Commercial Regulator P/N Configurator Chart

Base	Pressure		Body Options		Orifice		Adjustment Range		
P/N	Code	Description	Code	Description	Code	Size	Code	Description	Color
MEGR-S1202	G	Low	B	1-1/2"FNPT	J	1/4"	A	3.5-6.5"WC	Red
	H	High	C	2"FNPT	K	3/8"	B	5-9"WC	Black
					L	1/2"	C	8.5-18"WC	White
					M	3/4"	D	14-30"WC	Green
					N	1"	J *	1-2PSI	Blue
					O	1-3/16"	K *	1.5-3.25PSI	Orange
							L *	2-5PSI	Yellow
							M *	2-5.5PSI	Green

*** Note - Only Available In High Pressure Body Construction**

MEGR-1133 Series Second Stage Commercial Regulator Options Chart

Base	Pressure		Body Options	Adjustment Range
P/N	Code	Description	Description	Description
MEGR-1133	H	High	2"FNPT	2-4"WC
	L	Low		3.5-6"WC
				5-9"WC
				8.5-18"WC
				14-28"WC
				.75-2PSI
				1.5-3.25PSI*
				2-5PSI*
				5-10PSI*

*** Note - Only Available In H Body Configuration**

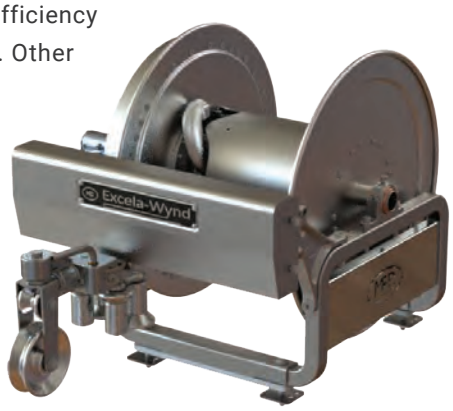
MEGR-199 Series Pilot Operated Commercial Regulator Options Chart

Base	Monitor		Body Options	Pressure		Orifice	Adjustment Range
P/N	Code	Description	Description	Code	Description	Size	Description
MEGR-199	M	Monitor	2"FNPT	P	250PSI	1/2"	3-12"WC
	-	Standard		PH	300PSI	5/8"	1-5PSI
						3/4"	2-10PSI
						7/8"	5-15PSI
						1-1/8"	10-20PSI
							10-65PSI*

***Note - Only Available in PH Body Configuration**

EXCELA-WYND™ HOSE REEL

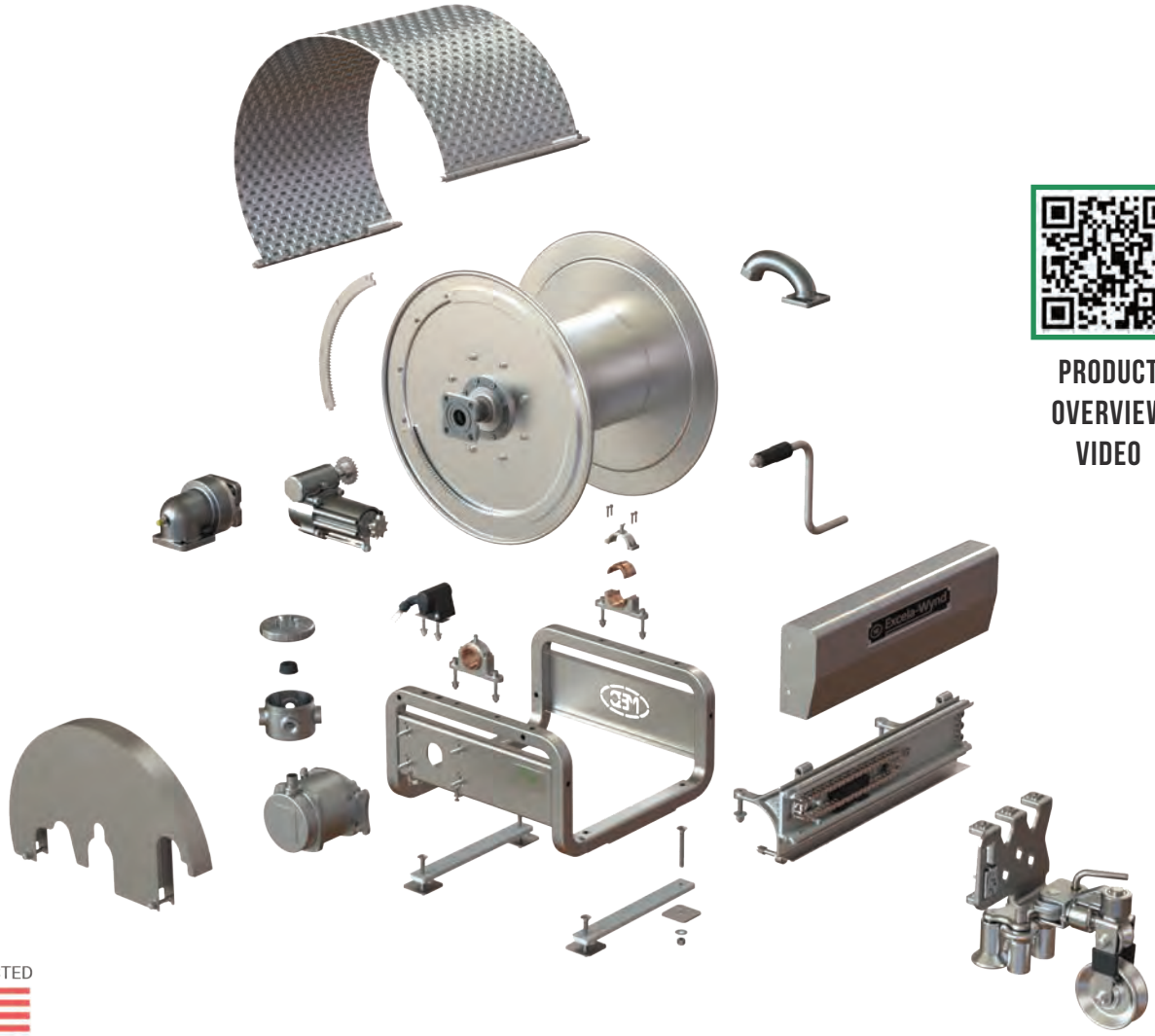
The new ME9000 Series Excela-Wynd Hose Reel provides increased delivery efficiency and safety while reducing down time, comp. claim injuries and driver fatigue. Other advantages include:



ME9000LH-17/25
Excela-Wynd™ Hose Reel w/
Type "D" ***Excela-Flange***™ Inlet

FEATURES

- 17" w x 25" dia. spool
- Holds up to 150' - 1" hose
- Auto-wind hose return system
- Variable Speed Controller - maintains consistent walking speed
- Adjustable speed to suit driver preference or seasonal conditions
- Auto-push feature takes the starting hose pull effort off the driver
- Premium construction & materials for increased service life and minimal downtime
- Gimbal roller assembly significantly reduces pulling effort, even on hard 90° side pulls
- Internal gear drive eliminates chain
- Designed for minimal maintenance & ease of serviceability
- Integrated design makes your truck look great!



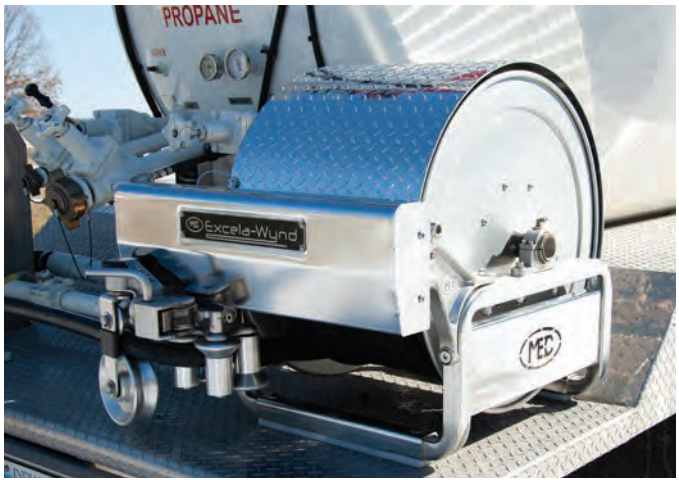
PRODUCT OVERVIEW VIDEO

BUILT & TESTED
IN THE USA

Part No.	Description
ME9000LH-17/25	Excela-Wynd™ Hose Reel with LH Type "D" Excela-Flange™ Inlet
Accessories	**Description**
VSC9000*	MEC/BASE Engineering Variable Speed Control System
ME9000WSDA**	Weather Shield - Diamond Plate Aluminum Bright Polished Finish
ME9000WSSA**	Weather Shield - Smooth Aluminum Silver Powder Coat Finish

* Required (included with hose reel purchase)
** Optional

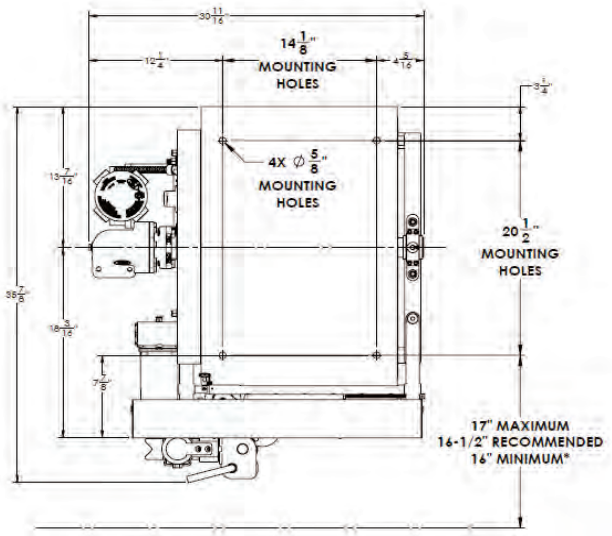
VSC9000

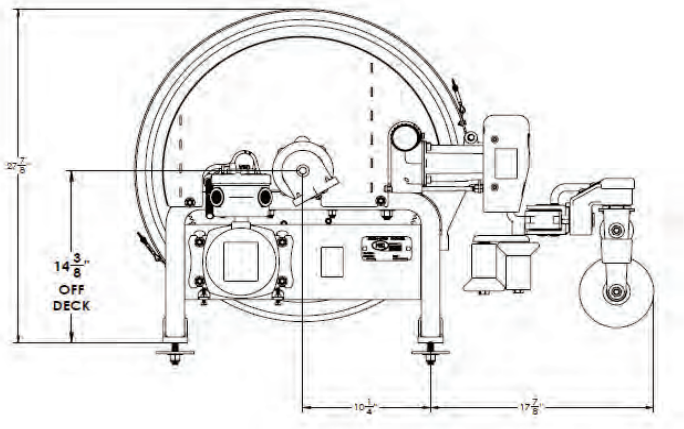


ME9000WSDA
Diamond Plate Aluminum - Bright Polished Finish

ME9000WSSA
Smooth Aluminum - Silver Powder Coat Finish

DIMENSIONS: Deck position and mounting specifications:





REAR SURFACE OR BUMPER
(DOT CRASH PROECTION PLANE)

* FOR COMPLIANCE WITH TITLE 49CFR, SECTION 178.345-8 (D) ACCIDENT DAMAGE PROTECTION REQUIREMENT (DOT 6" CRASH PROTECTION)

VALVE SAFETY WARNING

All MEC products must be installed and maintained in accordance with NFPA 58 “Liquefied Petroleum Gas Code”, NFPA 59 “Utility LP-Gas Plant Code” for LPG, and ANSI Standard K61.1 for NH3, as well as all other applicable state, federal and local requirements. In the interest of safety, all persons employed in chemical handling must be trained in proper handling and operating procedures.

MEC products are mechanical devices that are subject to wear, contaminants, corrosion, and aging of components made of materials such as rubber and metal. Over time these devices will eventually become inoperative. The safe service life of these products is affected by the environment and conditions of use that they are subjected to. MEC products have a long record of quality and service, so managers and service personnel must keep in mind the hazards that can arise from using aging devices that have outlived their safe service life.

!!! WARNING !!!

Contact with, or inhalation of liquid propane, anhydrous ammonia or other chemicals and their vapors can cause serious injury and death! Vaporous chemicals must be released outdoors in air currents that will ensure dispersion to prevent exposure to people and livestock and in accordance with local regulations. Gases must be kept far enough from open flame or other sources of ignition to prevent fire or explosion! Vapor is heavier than air and will not disperse or evaporate rapidly if released in still air! An abundant supply of clean water must be readily available and easily accessible as a means of providing IMMEDIATE First Aid treatment for exposure to hazardous materials.

!!! CAUTION !!!

- Always wear suitable eye protection, gloves and protective clothing when operating or servicing chemical equipment.
- Check seals, seats and Acme threads for wear and damage before use. Repair or replace all defective parts immediately.
- Always completely relieve system or line pressure prior to servicing equipment and plumbing.
- Use a suitable sealant on tapered pipe joints and always pressure test for leaks prior to returning to service.
- Always replace protective dust caps after use.
- To prevent the accidental opening of any valve, never carry or grasp a valve by its hand wheel or handle.
- To prevent accidental discharge, introducing contaminants and premature wear, never intentionally drag or drop a hose end valve.
- Use only the special wrenches designed for making 2-1/4” and 3-1/4” Acme valve connections.
- Regular inspection and maintenance is essential for continued safe operation.

!!! WARNING !!!

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

Hose End and Filling Valves

Follow this procedure on every filling application in order to prevent hazardous conditions:

- Check hose end valve and filler valve for foreign materials and, if present, remove with extreme care. If foreign material cannot be safely removed, do not proceed with filling and replace valve.
- Make sure the Acme connector easily spins on by hand. Never use hammers or pipe wrenches to tighten Acme connections.
- If a leak is detected when filling is started, immediately stop the operation and follow procedures to correct the leaking condition.
- Before disconnecting a filler valve, close both the filler and hose end valve tightly and vent the trapped gas by (a) using the vent on the hose end valve or (b) slightly loosening coupling nut to vent the gas before disconnecting. Loosen the filler valve very slowly. If the gas does not stop venting, then there is a leak in the filler valve or hose end valve. Do not disconnect the filling connector. Make sure you are familiar with your companies' procedure for handling this hazardous situation and follow it carefully.

Back Checks and Valves with Back Checks

Back checks limit flow to one direction. They are not intended to be a primary shut-off. Always fully close shut-off valves equipped with back checks when not in use.

Excess Flows and Valves with Excess Flows

Excess flows check closed when their rated flow is exceeded. Always fully open a shut-off valve with an excess flow when in use.

Quick Acting Filling Valves

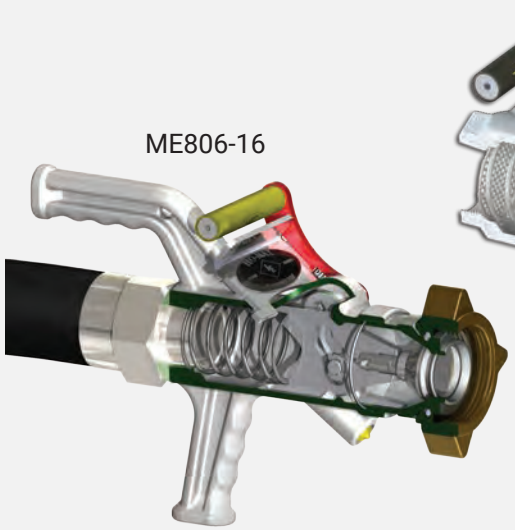
Inspect valves daily to ensure locking mechanism is working properly.

There are developing trends in state legislation and proposed national legislation making the owner of products responsible for replacing products before they outlive their safe service life.

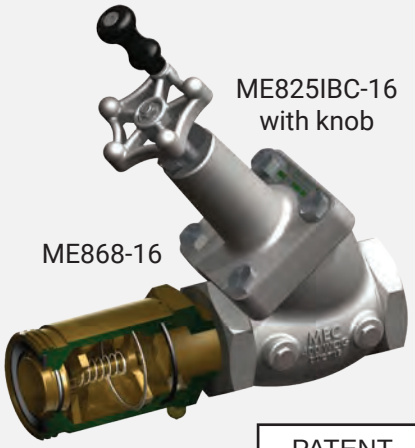
Form #403 Rev F

TURBO-FLO LE™ TRANSFER SYSTEM

The ***Turbo-Flo LE***™ (Low Emission) Transfer System is the industries most efficient and cost-effective way to transfer gases in bobtail, transport, railcar, and bulk plant applications. This product will pay for itself through gas savings during disconnect and its increased flow rate. While any part of this system is interchangeable with other standard systems, to receive maximum savings, all three products (LE Transfer Valve, LE Acme Adapter, and MEC Globe Valve) must be used simultaneously.



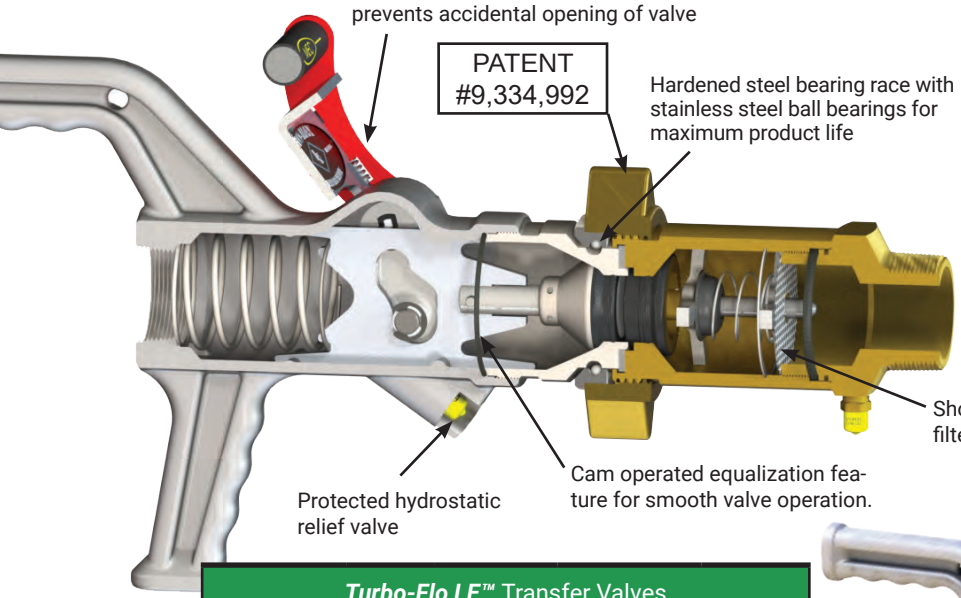
UP TO 55% INCREASED FLOW
when entire system is installed compared to a standard globe valve system



PATENT
#8,752,586
#9,310,003

LE TRANSFER VALVE - 2" FNPT X 3-1/4" F. ACME

BUILT & TESTED IN THE USA

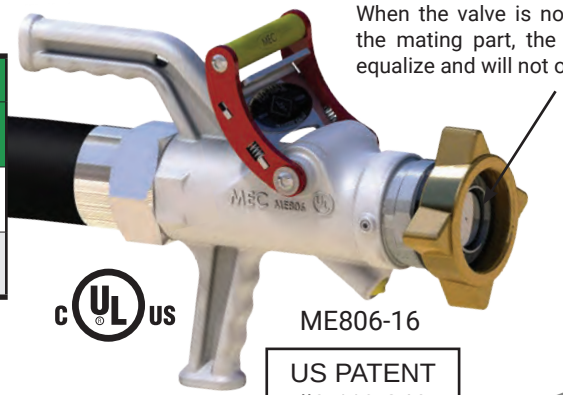


FEATURES

- Reduces product emissions by 99.6% over standard valves
- 100% compatible with existing Acme transfer connections
- All stainless steel internal components
- Convenient carrying handles and custom fit dust plug with lanyard (not shown)

Turbo-Flo LE™ Transfer Valves				
Part No.	Inlet (FNPT)	Outlet (F. Acme)	Discharge at Disconnect	Material
ME806-16	2"	3-1/4"	.09 CC	Ductile/ Brass
ME806S-16	2"	3-1/4"	.09 CC	Ductile/ Steel

Pilot orifice allows the valve to equalize and open only when the valve is attached to the mating part. When the valve is not attached to the mating part, the valve cannot equalize and will not open.



ME806-16

US PATENT
#8,113,240

TURBO-FLO LE™ TRANSFER SYSTEM

LE TRANSFER VALVE - 2” MNPT X 3-1/4” M. ACME

This revolutionary system provides a safe, ergonomic and efficient solution to transfer applications while increasing productivity and dramatically reducing fugitive product emissions. For use with bobtail, transport, railcar and bulk plant applications.

ME807-16

FEATURES

- Reduces product emissions 99.6% over standard valve combinations
- 100% compatible with all existing acme transfer connections
- Heavy duty spring loaded safety latch prevents accidental opening of valve
- Cam operated vapor equalization feature for smooth valve operation
- All stainless internal components
- Factory installed hydrostatic relief valve
- Specially formulated low temperature valve seals for maximum performance and life under all operating conditions
- Integrated Back Check (IBC) feature to allow trapped liquid to be forced back upstream of the valve if liquid is trapped downstream of the valve seat
- Available with brass or steel acme connections
- Designed for bi-directional flow of product
- Integrated pilot feature allows the ME807 to equalize and open only when connected to mating connection ensuring maximum safety.

The ME135 discharge hose adapter allows transport hoses to be adapted to work with the ME807 LE Shutoff Valve while providing a flexible connection in the transport trailer hose bleed down lines.

ME135

Turbo-Flo LE™ Transfer Valves			
Part No.	Description	Discharge at Disconnect	Material
ME807-16	Low Emission Transfer Valve 2" FNPT x 3-1/4" M. Acme Fixed	3.2 CC	Ductile/Brass
ME807S-16	Low Emission Transfer Valve 2" FNPT x 3-1/4" M. Acme Fixed	3.2 CC	Ductile/Steel
Accessories			
Part No.	Description		
ME134WR	3-1/4”F.Acme x 2MPT Filler Coupling w/Retainer Ring & 3/8”FNPT Port-Brass/Steel		
ME134SWR	3-1/4”F.Acme x 2MPT Filler Coupling w/Retainer Ring & 3/8”FNPT Port-Steel/Steel		
ME135	3-1/4”F.Acme x 2MPT Filler Coupling w/Ring & Discharge Hose-Brass Nut/Steel Stem		
ME806-16	Low Emission Transfer Valve 2” FNPT x 3-1/4” F. Acme Swivel		
ME806S-16	Low Emission Transfer Valve 2” FNPT x 3-1/4” F. Acme Swivel		
ME807PIB	Smart Interlock Technology Sensor Bracket Assembly for ME807 Series		

BUILT & TESTED IN THE USA

EXCELA-FLANGE™ SERIES
LE TRANSFER VALVE - 4 BOLT TYPE B FLANGE X 3-1/4” M. ACME

The ME808-16 Series valves feature our new modular ***Excela-Flange™*** 4-bolt inlet flange design that can be easily adapted to both NPT thread or socket weld type A companion flanges (ME840 & ME841 Series) ranging from 1-1/4” to 2” in diameter making it universal to piping sizes within this range. This innovative system allows installers the ability to eliminate unnecessary connections as well as possible leak points by integrating a convenient 4 bolt flange union at the valve inlet. The ***Turbo-Flo LE***™ system provides a safe, ergonomic and efficient solution for liquid or vapor transfer applications while increasing productivity and dramatically reducing fugitive product emissions. For use with bobtail, transport, railcar and bulk plant applications.

BUILT & TESTED
IN THE USA

ME808-16

FEATURES

- Universal 4 bolt inlet flange for built in union joint
- Reduces product emissions 99.6% over standard valve combinations
- 100% compatible with all existing acme transfer connections
- Heavy duty spring loaded safety latch prevents accidental opening of valve
- Cam operated vapor equalization feature for smooth valve operation
- All stainless internal components
- Factory installed hydrostatic relief valve
- Specially formulated low temperature valve seals for maximum performance and life under all operating conditions
- Integrated Back Check (IBC) feature to allow trapped liquid to be forced back upstream of the valve if liquid is trapped downstream of the valve seat.
- Available with brass or steel acme connections.

Part No.	Description	Discharge at Disconnect	Material	Mating Flange Type	Weight (lbs.)
ME808-16	Low Emission Transfer Valve 4 Bolt Type B Flange x 3-1/4" M. Acme Fixed	3.2 CC	Ductile/ Brass	A	12.3
ME808S-16	Low Emission Transfer Valve 4 Bolt Type B Flange x 3-1/4" M. Acme Fixed	3.2 CC	Ductile/Steel	A	12.3
Accessories					
Part No.	Description				
ME807PIB	MEC Smart Interlock Sensor Kit for ME807 Series				

TURBO-FLO LE™ TRANSFER SYSTEM

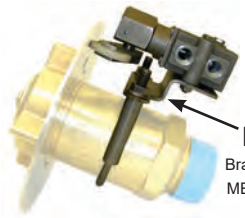
LOW EMISSION ACME ADAPTERS

Turbo-Flo LE™ Acme Adapters								
Part No.	Inlet (M. Acme)	Outlet (MNPT)	Factory Installed Screen	Discharge at Disconnect	Material	Accessories		
						Mechanical Brake Interlock Retro-Fit	Electronic Proximity Interlock Kit	Back Check Test Adapter
ME868-16*	3-1/4"	2"	No	3.11 CC	Brass	ME868MIB	ME868PIB	MEP105
ME868A-16*	3-1/4"	2"	Yes	3.11 CC	Brass	ME868MIB	ME868PIB	MEP105
ME868-24*	3-1/4"	3"	No	3.11 CC	Brass	ME868MIB	ME868PIB	MEP105
ME868A-24*	3-1/4"	3"	Yes	3.11 CC	Brass	ME868MIB	ME868PIB	MEP105

* Not for use in conjunction with soft seat back check

ME868-16
U.S. Patented
Canada Patent Pending

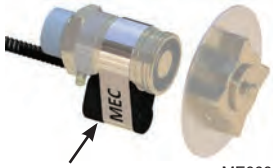
ACCESSORIES



ME868MIB
Bracket and clamp only
ME868-16 & ME441F8 not included

ME868BLK

MEP105



ME868PIB
Patent Pending

ME868-16 & ME441F8 not included

ME868BLK – "Bypass Line Kit" is used to create a one-way closed loop between the upstream and downstream sides of a Marshall Excelsior 2" globe valve when used in conjunction with a ME868 Series low emission Acme adapter. The kit features a brass one-way check valve and preformed heavy wall copper tubing with brazed end fittings for durability. This product is intended to prevent over pressurization of the ME868 Series low emission Acme adapters making them truly low emission. This product will also greatly reduce pressures within the ME868 Series adapters thereby decreasing any wear that may occur to the shutoff valves or the low emission Acme adapter.

ME868MIB – "Mechanical Interlock Bracket" allows for a standard Parker style pneumatic air roller valve normally used in conjunction with standard bobtail brake interlock systems to be retro-fit to the ME868 Series low emission Acme adapters. This bracket system allows the standard brake interlock system and connections to be moved forward to the end of the low emission adapter where normal contact with the ME441F8 flange Acme cap can occur. The kit includes all bracketing and mounting hardware. (Kit does not include Parker style pneumatic roller valve P/N CW9425)

ME868PIB – "Proximity Interlock Bracket" uses the new MEC smart interlock technology designed to connect with the Allison automatic transmission "auxiliary function range inhibit" preventing operation of the bobtail while this connection is in use. MEC smart interlock technology incorporates a high grade Turck proximity switch that senses the presence of the stainless steel flange on the ME441F8 Acme cap when secured tightly to the ME868 Series low emission Acme adapter. This kit comes complete with all mounting hardware, MEC smart interlock technology and wiring harness to reach 5' below the deck of the bobtail.

MEP105 – This adapter allows for the periodic evacuation and testing of a bobtail's internal back check valve during five year inspection requirements. The adapter fits snuggly into the female Acme side of a ME130 which then can be threaded onto the ME868 Series low emission Acme adapter pushing the valve poppet to the open position thereby depressurizing the system for testing purposes. (Note: Be sure to consult instruction manual supplied with MEP105 test adapter before attempting use.)

BUILT & TESTED
IN THE USA

HIGH FLOW GLOBE & ANGLE VALVES

Marshall Excelsior offers three types of globe and angle valves (standard, integrated pilot feature (P) or integrated back check feature (IBC)) depending on the intended application. All Marshall Excelsior globe and angle valves are designed to withstand extreme temperatures and can **increase flow up to 70 percent** over a standard globe valve. The 35 degree seat angle on the 1-1/4" and larger globe valves make them ergonomically designed for bobtail, transport and bulk plant applications. This 35 degree seat angle also allows up to 70 percent more flow. The 1-1/4" and larger globe and angle valves have an optional 360 degree rotating ME829 ***E-ZTurn*** knob

To increase the longevity of the seal, all Marshall Excelsior globe and angle valves have a 360 degree rotating seal that stops rotating when it contacts the sealing surface while the valve continues to be tightened. The 1-1/4" and larger models feature ball bearings to facilitate increased seal life.

All 1-1/4" and larger globe and angle valves come with an upstream and downstream plugged port. The boss of these ports are large enough to drill and tap a 3/4" FNPT hole for a jumper line or standard by-pass valve.

These valves are mainly used in piping systems to control liquid or vapor flow in bulk plants, bobtails, transports, pumps or compressors. Globe valves are designed to be installed in a straight section of piping and angle valves are designed to be installed when a 90 degree directional change is needed in the piping.

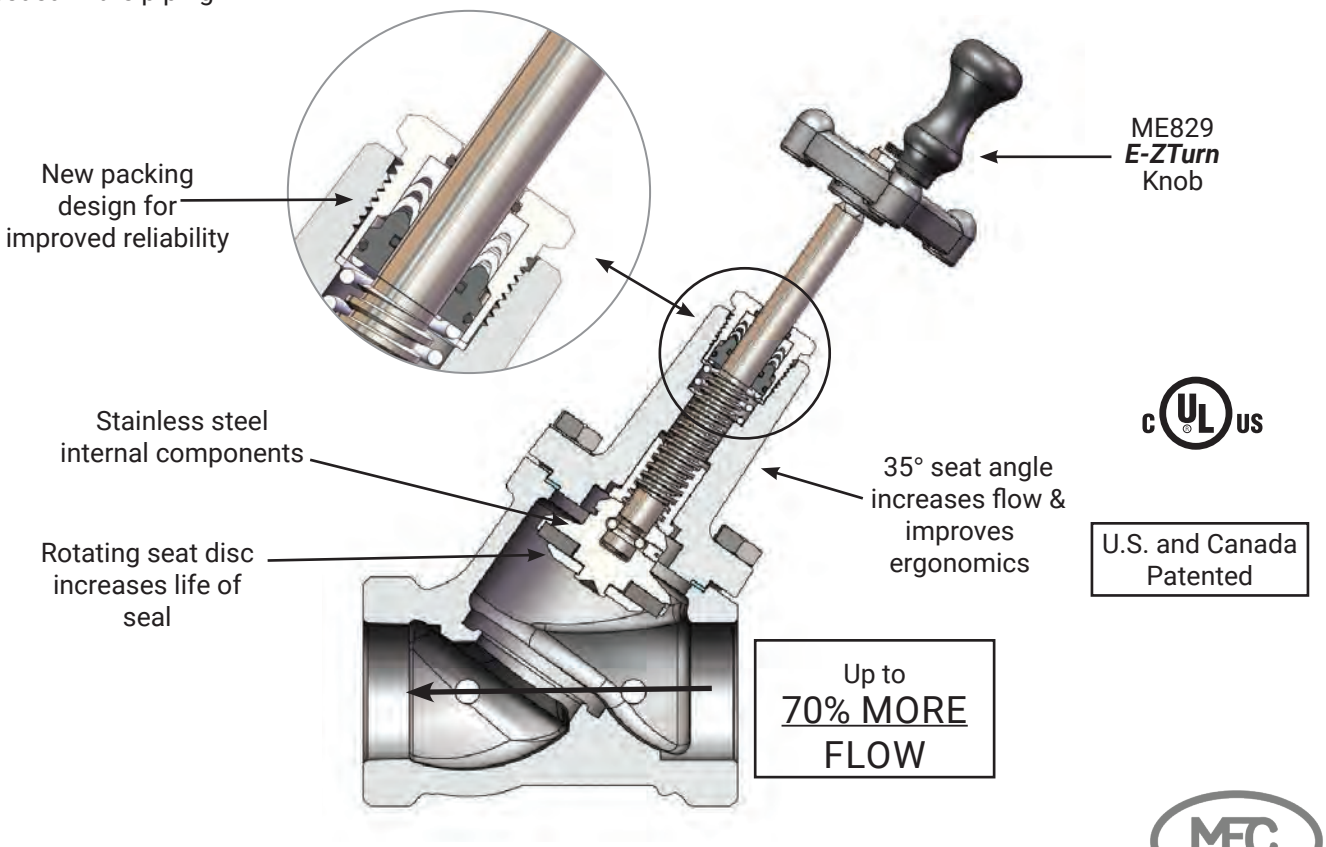
Change the sealing compound and Marshall Excelsior's globe and angle valves can be used in numerous industries including, but not limited to LP-Gas, anhydrous ammonia, petrochemical and chemical applications. The standard seal compound is Nitrile with PTFE or FKM also available. Contact us if you have a need for a different seal compound.

Marshall Excelsior valves are designed to be hand tightened. Using wrenches or excess force to open or close the valve can cause damage to the seal, decreasing the valve's life.

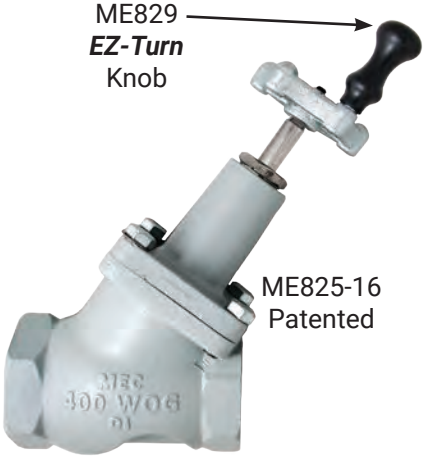
Installation Note: Before installing a globe or angle valve, the piping system and container must be free of dirt, debris, foreign matter and other particles, large or small, that could damage the sealing surface or seal of the valve. A minimal amount of pipe sealant should be used on the mating part. Excess pipe sealant can also cause damage to the seal surface or seal. Damage to the sealing surface or the seal will cause the valve to leak.

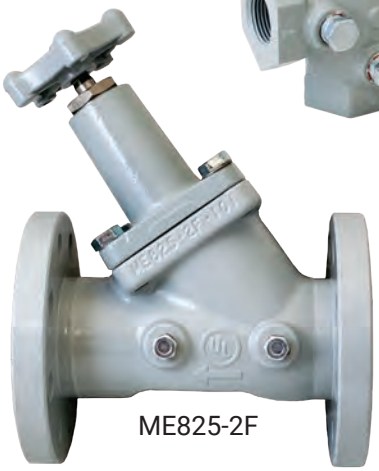
To avoid damage to the valve or piping, due to pressure build-up from temperature changes, a hydrostatic relief valve should be installed where liquid can be trapped between two shutoff valves.

A vent valve should be installed on the downstream side of the globe or angle valve if the angle valve is used as a shutoff valve at the end of a loading hose. This allows the operator to vent the trapped liquid before disconnect.



HIGH FLOW GLOBE & ANGLE VALVES





FEATURES

- All stainless steel internal components with rotating seat disc design & V-cup PTFE packing stem seals
- Double stem seal design ensures leak free operation
- Double lead stem thread ensures quick and efficient operation
- Durable ductile iron valve body with automotive grade powder coat finish
- 1-1/4" & larger globe valves have 35° seat angle for maximum product flow
- 1-1/4" & larger globe valve designed ergonomically correct for bobtail transport and bulk plant applications
- 1-3/4", 2-1/4" & 3-1/4" Acme threads available on globe valves
- Rated for 400 WOG

MEP449S-101
Replacement Protective Weather Boot

ME825-6
Vent Valve Not Included

Part No.		Inlet (FNPT)	Outlet	Side Port (FNPT)	No. Of Side Ports	Flange Style Bonnet	Accessories			
Angle	Globe						E-Z Turn Knob	Push-To-Turn Locking Handwheel Kit	Hydrostatic Relief Valves	Vent Valves
ME815-4	**ME825-4**	1/2"	1/2" FNPT	1/4"	2	No	–	–	MEH225 MEH225SS MEH25/450	MEJ400 MEJ400SC MEJ402S
ME815-6	**ME825-6**	3/4"	3/4" FNPT	1/4"	2	No	–	–		
ME815-8	**ME825-8**	1"	1" FNPT	1/4"	2	No	–	–		
ME815-10	**ME825-10**	1-1/4"	1-1/4" FNPT	1/4"	2	Yes	ME829	ME815-16LHK		
ME815-12	**ME825-12**	1-1/2"	1-1/2" FNPT	1/4"	2	Yes	ME829	ME815-16LHK		
ME815-16	**ME825-16**	2"	2" FNPT	1/4"	2	Yes	ME829	ME815-16LHK		
––	**ME824-16**	2"	2" FNPT	1/2"	2	Yes	ME829	ME815-16LHK	MEH50/460	–
ME815-2F	**ME825-2F**	2"-300LB Flanged	2"-300LB Flanged	1/4"	2	Yes	ME829	ME815-16LHK	MEH225 MEH225SS MEH25/450	MEJ400 MEJ400SC MEJ402S
ME815-24	**ME825-24**	3"	3" FNPT	1/4"	2	Yes	included	–		
ME815-3F		3"-300LB Flanged	3"-300LB Flanged	1/4"	2	Yes	included	–		

To order FKM seal add "V" after the prefix part number. For PTFE Seal add "T"after the prefix part number i.e. ME815T-10 or ME815V-10

BUILT & TESTED
IN THE USA

EXCELA-FLANGE™ HIGH FLOW GLOBE & ANGLE VALVES

The ME813, ME818, ME819 and ME823 Series valves feature our new modular ***Excela-Flange***™ 4 Bolt inlet/outlet design that can be easily adapted to both NTP thread or socket weld type A companion flanges (ME840 & ME841 Series) ranging from 1-1/4" to 2" in diameter making it universal to piping sizes within this range. This innovative system allows installers the ability to eliminate unnecessary connections as well as possible leak points by integrating a convenient 4 bolt flange union at the valve inlet/outlet connections.

ME823SS-10
2" Double Flange
Stainless Steel
Globe Valve

ME813-16
2" Double Flange
Angle Valve

ME823-16
2" Double Flange
Globe Valve

BUILT & TESTED
IN THE USA

ME819-16
2" Flange x NPT
Globe Valve

FEATURES

- All stainless steel internal components with rotating seat disc design & V-cup PTFE packing stem seals
- Durable ductile iron valve body with zinc plating finish
- 1-1/4" & larger globe valves have 35° seat angle for maximum product flow
- 1-1/4" & larger globe valve designed ergonomically correct for bobtail transport and bulk plant applications
- Rated for 400 WOG
- Up to **70% MORE FLOW** than the nearest competitor
- 1/4" FNPT or 1/2" FNPT plugged accessory ports upstream and downstream of valve seat
- Standard Nitrile seat, optional PTFE or FKM seat
- **Some models available with CF8M Stainless Steel body & bonnet**

Angle	Globe	Description	Side Ports (FNPT)	Inlet	Outlet	Mating Flange Type	Weight (lbs.)	
							Angle	Globe
ME813-10	**ME823-10**	1-1/4" - 4 Bolt Full Flow Double Flange Valve	1/4"	4 Bolt Flange Type B	4 Bolt Flange Type B	A	14.8	15.3
–	**ME823SS-10** (1)		1/4"			A	–	15.0
–	**ME822-16**	2" - 4 Bolt Full Flow Double Flange Valve	1/2"			A	–	19.7
ME813-16	**ME823-16**		1/4"			A	17.6	19.6
ME813SS-16 (1)	**ME823SS-16-4** (1) (2)		1/4"			A	16.0	17.0
–	**ME818-16**		1/2"		2" FNPT	A	–	17.7
–	**ME819-10**	1-1/4" - 4 Bolt Full Flow Single Flange Valve	1/4"		1-1/4" FNPT	A	–	14.0
–	**ME819SS-10** (1)		1/4"		1-1/4" FNPT	A	–	13.5
–	**ME819-16** **ME819-16-4**	2" - 4 Bolt Full Flow Single Flange Valve	1/4"		2" FNPT	A	–	17.7
–	**ME819SS-16-4** (1) (2)		1/4"		2" FNPT	A	–	15.5

(1) "SS" indicates CF8M Stainless Steel body & bonnet
(2) ME823SS-16-4 and ME819SS-16-4 include a bottom port

EXCELA-FLANGE™ HIGH FLOW GLOBE & ANGLE VALVES

NEXT GENERATION

The Next Generation Flanged 2" Globe and Angle Valves feature our new modular ***Excela-Flange***™ 4 Bolt inlet/outlet design that can be easily adapted to both NTP thread or socket weld type A companion flanges (ME840 & ME841 Series) ranging from 1-1/4" to 2" in diameter making it universal to piping sizes within this range. This innovative system allows installers the ability to eliminate unnecessary connections as well as possible leak points by integrating a convenient 4 bolt flange union at the valve inlet/outlet connections.

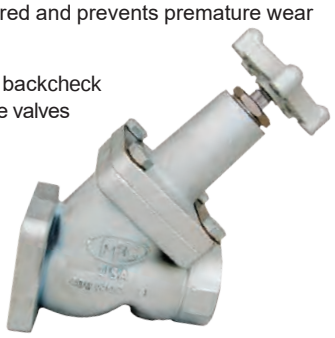
- ALL OF THE SAME GREAT FEATURES OF THE ORIGINAL FULL FLOW MEC GLOBE VALVES WITH ADDITIONAL PRODUCT PERFORMANCE ENHANCEMENTS.

Pilot Feature: (P) This globe valve model incorporates a pilot orifice feature to facilitate pressure equalization in sections of system piping that have bidirectional flow or high differential pressures. This greatly reduces the opening torque required and prevents premature wear of the valve seat.

Integrated Back Check Feature: (IBC) These globe and angle valve models incorporate an integrated backcheck feature to allow trapped downstream pressure to automatically bypass to the upstream side of the valve. These valves are designed for systems with flow in one direction, creating a closed loop system that prevents the product from relieving to the atmosphere making for a low emission, more environmentally friendly option.

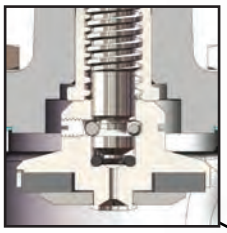
PATENT #8,596,301

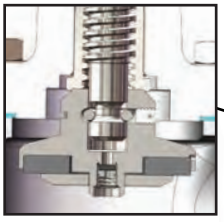
ME813SSIBC-16
2" Double Flange
IBC Stainless Steel
Angle Valve



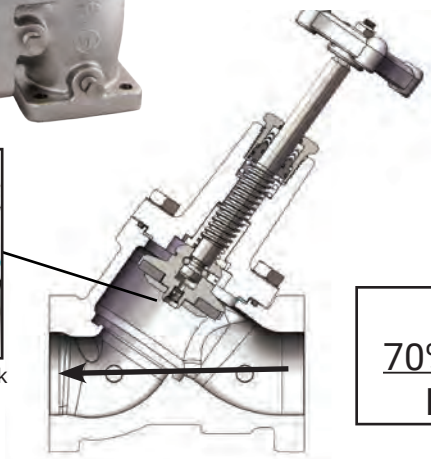
ME819P-16
2" - Flange x NPT

Pilot Feature



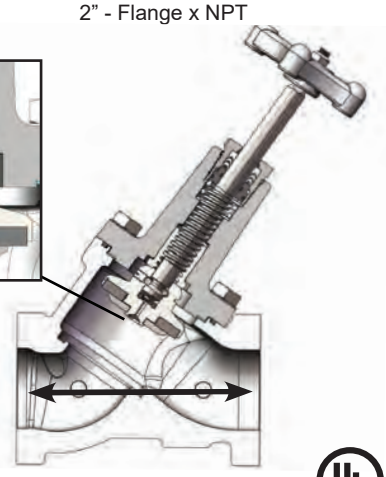


Integrated Back Check Feature



ME823IBC-16

Up to
70% MORE
FLOW



ME823P-16

Angle	Globe	Description	Side Ports (FNPT)	Inlet	Outlet	Mating Flange Type	Weight (lbs.)	
							Angle	Globe
ME813IBC-16	**ME823IBC-16**	2" Full Flow 4 Bolt Double Flange (IBC) Valve	1/4"	4 Bolt Flange Type B	4 Bolt Flange Type B	A	17.6	20.1
ME813SSIBC-16 (1)	**ME823SSIBC-16-4** (1) (2)		1/4"			A	15.5	17.0
—	**ME822IBC-16**		1/2"			A	—	19.7
ME813P-16	**ME823P-16**	2" Full Flow 4 Bolt Double Flange (P) Valve	1/4"			A	18.1	20.1
—	**ME822P-16**		1/2"			A	—	20.1
—	**ME818IBC-16**	2" Full Flow 4 Bolt Single Flange (IBC) Valve	1/2"		2" FNPT	A	—	18.2
—	**ME818P-16**	2" Full Flow 4 Bolt Single Flange (P) Valve	1/2"			A	—	18.2
—	**ME819IBC-16**	2" Full Flow 4 Bolt Single Flange (IBC) Valve	1/4"			A	—	18.1
—	**ME819IBC-16-4**		1/4"			A	—	18.1
—	**ME819SSIBC-16-4** (1)		1/4"			A	—	15.5
—	**ME819P-16**	2" Full Flow 4 Bolt Single Flange (P) Valve	1/4"			A	—	18.1

BUILT & TESTED
IN THE USA

(1) "SS" indicates CF8M Stainless Steel body & bonnet
(2) ME823SSIBC-16-4 includes a 1/2" FNPT bottom port

HIGH FLOW GLOBE & ANGLE VALVES

NEXT GENERATION

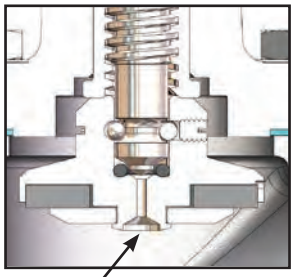
These **Next Generation High Flow Globe and Angle Valves** have the same great features of the original High Flow **MEC** globe and angle valves with additional product performance enhancements. These globe and angle valves provide a positive shutoff that is highly reliable with High Flow performance with bidirectional flow or reduced product emissions.

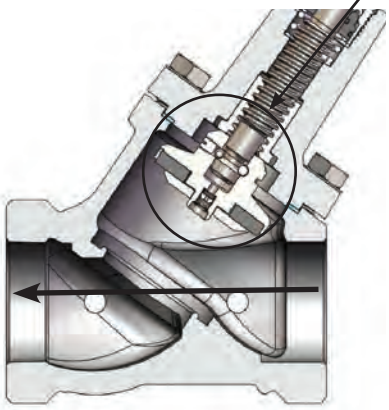
Integrated Back Check Feature (IBC) - Designed for use in sections of piping where the trapped liquid pressure may exceed 100 psig between two valves. When trapped liquid pressure exceeds 100 psig, the integrated back check feature automatically bypasses trapped downstream system pressure through the valve seat to the upstream side of the valve into the product container or piping. A closed looped system is created because the 100 psig is far below the 400—500 psig set pressure of a hydrostatic relief valve keeping the product in the system and reducing product emissions.

WARNING: NFPA 58 requires that a hydrostatic relief valve be installed into any section of piping that could allow liquid to become trapped between two shutoff valves.

Integrated Pilot Feature (P) - Designed for sections of piping that have bidirectional flow. Standard globe and angle valves installed in bidirectional systems can have a potential for back pressure to build-up on the upstream side of a closed valve. This pressure adds to the force required to open the valve causing additional wear to the valve stem and seat material. The integrated pilot feature allows the first portion of stem travel to unseat the pilot orifice, automatically equalizing the system pressure prior to unseating the valve holder seal. This greatly reduces the opening torque required in bidirectional systems and prevents premature wear of the primary valve seat material and valve components.

Integrated Back Check Feature (IBC)

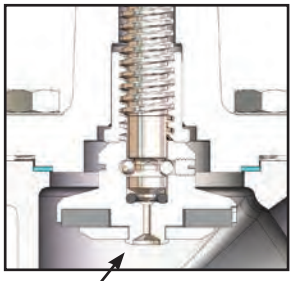


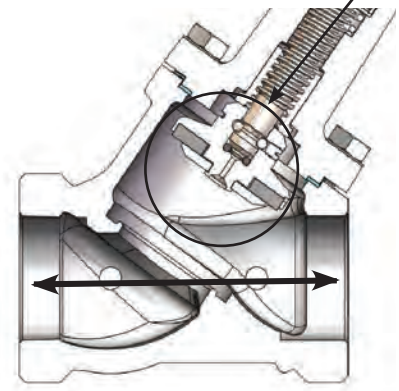


ME825IBC-16
U.S. and Canada Patented

Up to
70% MORE
FLOW

Integrated Pilot Feature (P)





ME825P-16
U.S. and Canada Patented

BUILT & TESTED
IN THE USA

Part No.				Inlet (FNPT)	Outlet	Side Port (FNPT)	No. of Side Ports	Flange Style Bonnet	Accessories		
Angle		Globe							E-Z Turn Knob	Hydrostatic Relief Valves	Vent Valves
Integrated Back Check	Pilot Feature	Integrated Back Check	Pilot Feature								
ME815IBC-16	**ME815P-16**	**ME825IBC-16**	**ME825P-16**	2”	2” FNPT	1/4”	2	Yes	ME829	MEH225 MEH225S MEH25/450	MEJ400 MEJ400SC MEJ402S
–	–	**ME824IBC-16**	**ME824P-16**	2”	2” FNPT	1/2”	2	Yes	ME829	MEH50/460	–

EXCELA-FLANGE™ HIGH FLOW GLOBE VALVES

2" INTEGRATED PILOT VALVES W/ BOTTOM PORT

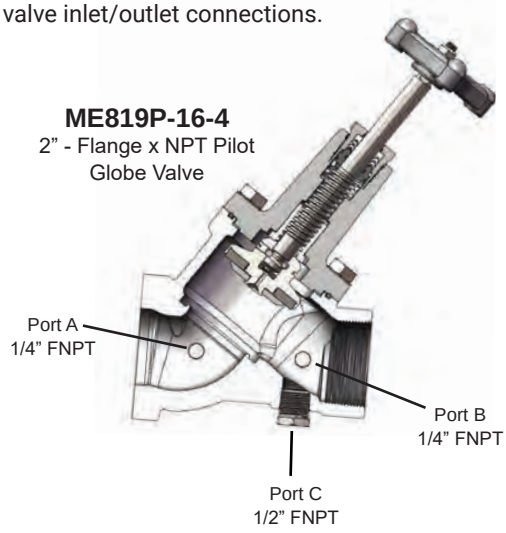
Provides a positive shut-off valve that is highly reliable with full flow performance while providing bi-directional flow. Ideally suited for use on transport trailers with 1/2" blow down lines to provide rapid and complete product evacuation prior to disconnecting transfer hose. Valves can be purchased with hydrostatic relief valves pre-installed on the out board side port of the globe valve main seal.

- All of the same great features of the original full flow MEC globe valves with additional product performance enhancements.

Pilot Feature: (P) This globe valve model incorporates a pilot orifice feature to facilitate pressure equalization in sections of system piping that have bidirectional flow or high differential pressures. This greatly reduces the opening torque required and prevents premature wear of the valve seat.

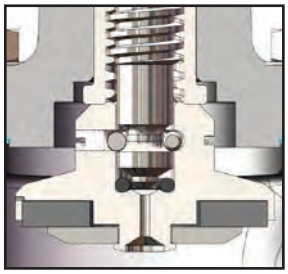
The ***Excela-Flange***™ 2" bottom port operated flanged globe valves feature our new modular Excela-Flange 4 bolt inlet/outlet flange design that can be easily adapted to both NPT thread or socket weld Type A companion flanges (ME840 & ME841 Series) ranging from 1-1/4" to 2" in diameter making it universal to piping sizes within this range. This innovative system allows installers the ability to eliminate unnecessary connections as well as possible leak points by integrating a convenient 4 bolt flange union at the valve inlet/outlet connections.

ME819SSP-16-4
2" - Flange x NPT Pilot
Stainless Steel
Globe Valve

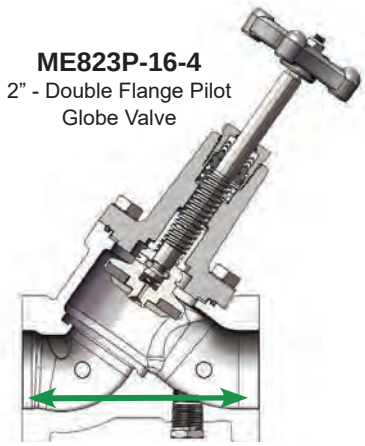


ME819P-16-4
2" - Flange x NPT Pilot
Globe Valve

Pilot Feature



Up to
70% MORE
FLOW



ME823P-16-4
2" - Double Flange Pilot
Globe Valve

Part No	Description	1/4" FNPT Side Port A	1/4" FNPT Side Port B	1/2" FNPT Bottom Port C	Inlet	Outlet	Mating Flange Type	Weight (lbs)
ME822P-16-4 (1)	2" Full Flow 4 Bolt Flange (P) Valve	Plugged	Plugged	Plugged	4 Bolt Flange Type B	4 Bolt Flange Type B	A	20.2
ME822SSP-16-4 (1) (2)		Plugged	Plugged	Plugged			A	17.0
ME823P-16-4		Plugged	Plugged	Plugged			A	20.1
ME823SSP-16-4 (2)		Plugged	Plugged	Plugged			A	17.0
ME823P-16H-4		Plugged	MEH225	Plugged			A	20.1
ME823P-16HSS-4		Plugged	MEH225SS	Plugged			A	20.1
ME823SSP-16HSS-4 (2)		Plugged	MEH225SS	Plugged			A	17.0
ME818P-16-4(1)		Plugged	Plugged	Plugged		2" FNPT	A	18.2
ME819P-16-4		Plugged	Plugged	Plugged			A	18.2
ME819SSP-16-4 (2)		Plugged	Plugged	Plugged			A	15.5
ME819P-16H-4		Plugged	MEH225	Plugged			A	18.2
ME819P-16HSS-4		Plugged	MEH225SS	Plugged			A	18.2
ME819SSP-16HSS-4 (2)		Plugged	MEH225SS	Plugged			A	15.5

(1) Indicates all ports 1/2" FNPT
(2) "SS" indicates CF8M Stainless Steel body & bonnet

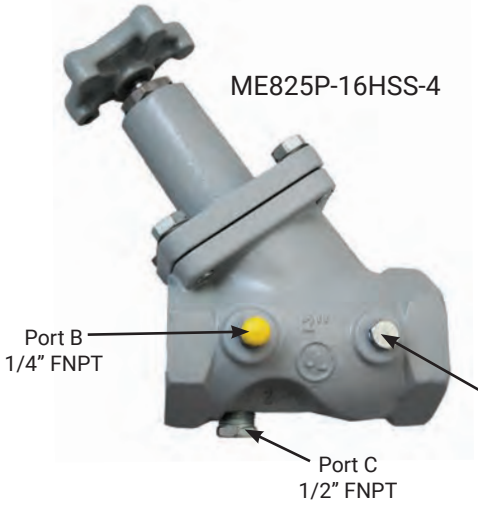
BUILT & TESTED
IN THE USA

HIGH FLOW GLOBE VALVES

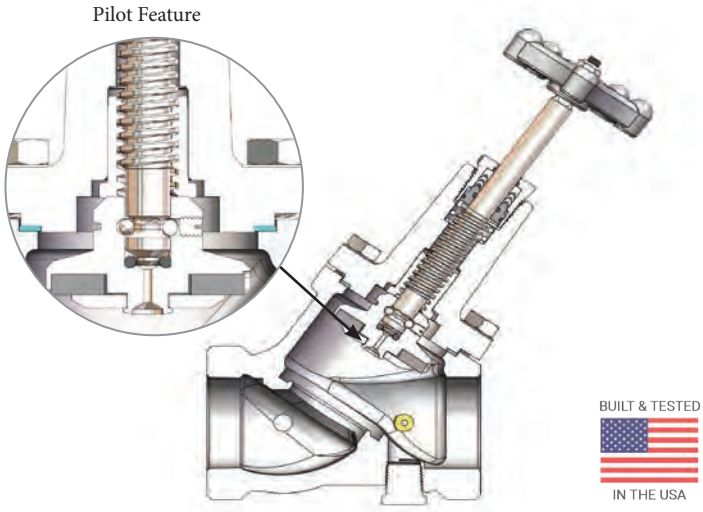
2” NEXT GENERATION - 1/2” BOTTOM PORT

Provides a positive shut-off valve that is highly reliable with high flow performance while providing bi-directional flow. Ideally suited for use on transport trailers with 1/2” blow down lines to provide rapid and complete product evacuation prior to disconnecting the transfer hose. Valves can be purchased with hydrostatic relief valves pre-installed in the side port of the globe valve downstream of the main seal.

- All of the same great features of the original full flow MEC globe valves with additional product performance enhancements.
- **Pilot Feature: (P)** These globe valve models incorporate a pilot orifice feature to facilitate pressure equalization in sections of system piping that have bidirectional flow or high differential pressures. This greatly reduces the opening torque required and prevents premature wear of the valve seat.



PATENT PENDING

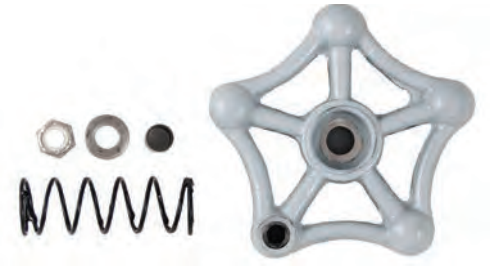


BUILT & TESTED IN THE USA

Next Generation Globe and Angle Valves						
Part No.	Description	1/4” FNPT Side Port A	1/4” FNPT Side Port B	1/2” FNPT Bottom Port	Inlet/ Outlet	Accessories E-Z Turn Knob
ME825P-16-4	Full Flow Valve with Integrated Pilot Feature	Plugged	Plugged	Plugged	2” FNPT	ME829
ME825P-16H-4	Full Flow Valve with Integrated Pilot Feature	Plugged	MEH225	Plugged	2” FNPT	ME829
ME825P-16HSS-4	Full Flow Valve with Integrated Pilot Feature	Plugged	MEH225SS	Plugged	2” FNPT	ME829

PUSH-TO-TURN LOCKING HANDWHEEL KIT

Helps prevent accidental opening of any 1-1/4”, 1-1/2”, or 2” MEC angle or globe valve configuration. Once installed the kit requires the operator to push down on the hand wheel to engage the valve stem in order to open or fully close the valve making it a deliberate action to actuate. The ejection spring disengages the handwheel from the stem when released, preventing unintentional opening of the valve.



Part No.	Description
ME815-16LHK	Push-To-Turn Locking Handwheel Kit for all 1-1/4”, 1-1/2” & 2” MEC Angle / Globe Valves

Note: MEC strongly recommends use of ME829 EZ-Turn Handwheel knob to promote ease of use for this product (NOT INCLUDED IN ME815-16LHK KIT).

FLANGED FULL PORT GLOBE VALVES

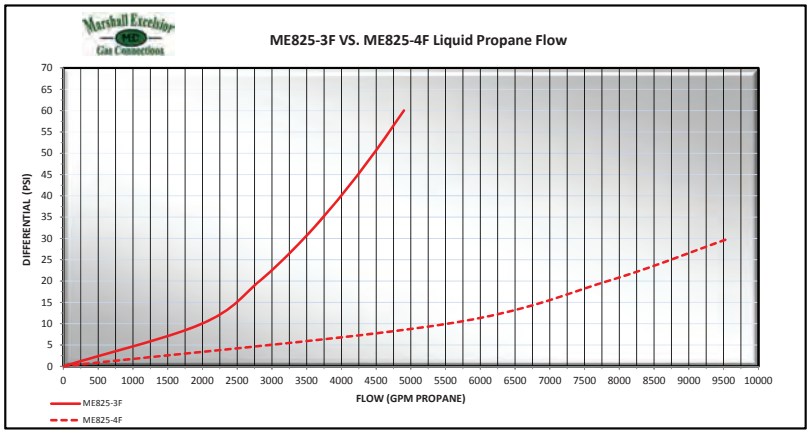
The Full Port Flanged Globe Valves provide all the servicability features of a traditional globe valve with the full port flow capacity of a ball valve. Flanged end connections facilitate easy servicing along with a replaceable valve seat providing long service life for your investment. The valve also features an integrated pilot feature allowing pressure equalizing across the valve seat for bi-directional system flow.

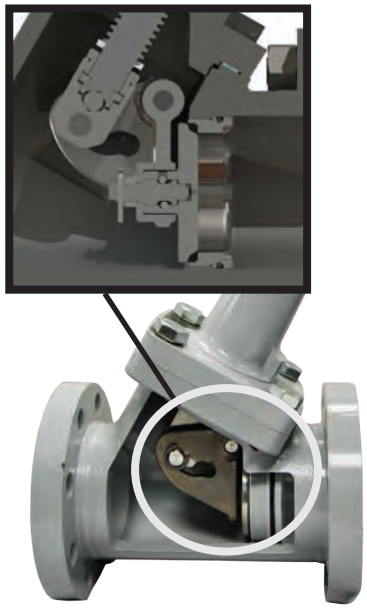
WARNING – Downstream Pressure Differential Should NOT Exceed 50PSI For Proper Seal Function & Piping Isolation

FEATURES

- Has same great reliable and durable teflon stem packing glands as our other globe valves
- Features exclusive slip cam construction for full port flow rates
- All stainless steel internal component construction for maximum corrosion resistance
- Removable bonded main seat disc assembly
- Same overall length as ANSI ball valve
- **Pilot Feature: (P)** These globe valve models incorporate a pilot orifice feature to facilitate pressure equalization in sections of system piping that have bidirectional flow or high differential pressures. This greatly reduces the opening torque required and prevents premature wear of the valve seat.

ME825-3F





Part No.	Description	Side Port (FNPT)	No. of Side Ports	Inlet	Outlet
ME825-3F	Full Port Globe Valve with Integrated Pilot Feature	1/4”	2	3”-300 LB	3”-300 LB
ME825-4F	Full Port Globe Valve with Integrated Pilot Feature	1/4”	2	4”-300 LB	4”-300 LB

Accessories	
Part No.	Description
ME829	Black Handwheel E-Z Turn Knob Kit
ME980SK-24	3" & 4"-300LB ESV & Globe Valve Flange Stud Kit
ME904S-3F-027	3"-300 LB Spiral Ring Flange Gasket-Carbon Steel
ME904S-4F-027	4"-300 LB Spiral Ring Flange Gasket-Carbon Steel

BUILT & TESTED
IN THE USA

EXCELA-FLANGE™ SERIES

HIGH FLOW SOCKET WELD BODIES

These tees and elbows are available in both 2" and 3" socket weld or butt weld pipe configuration and maximize flow through system piping where a 90° turn must be made. Flow rates are maximized by an optimized flow path as well as nearly seamless piping joints reducing turbulence and focusing flow through the system. Ideally suited for pump discharge lines, transport loading/ unloading tee assemblies, spray fill lines or any other piping application where piping is welded and high flow rates are desired.

MEP996S-16
2" F. Socket Weld X
2" F. Socket Weld Tee

MEP995S-24/16
3" F. Socket Weld X
(2") -2" F. Socket Weld Tee

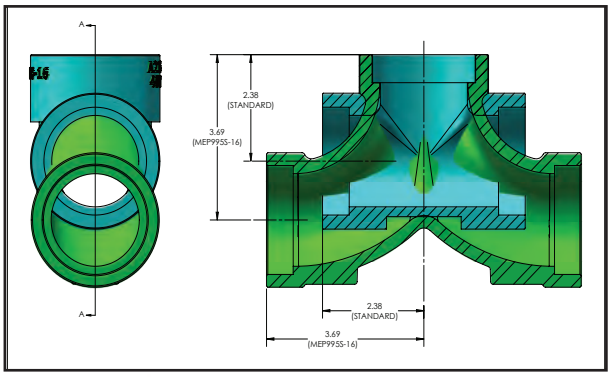
MEP995SBW-16
2" F. Butt Weld X (2") -2" F. Butt Weld Tee

MEP999SBW-16
2" x 2" Butt Weld Elbow

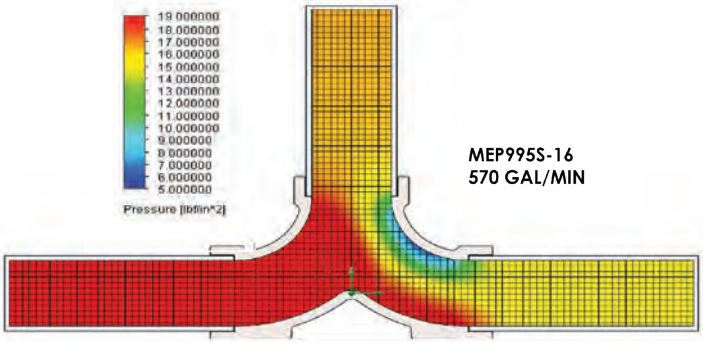
FEATURES

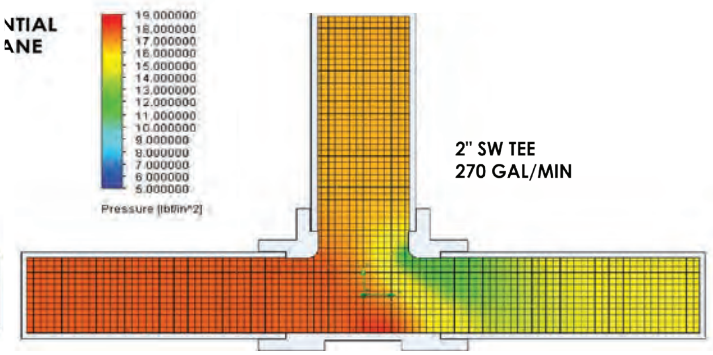
- All steel construction for maximum durability and weldability
- Available in 2" & 3" Socket Weld configurations
- 2" butt weld connection for shorter overall profiles and increase flexibility
- MEP999 Series features an integrated type A 4 bolt flange union
- Coated for maximum corrosion resistance
- Rated 400 WOG
- Available in Stainless Steel construction

MEP995SBW-16 vs. Standard Tee



FLOW COMPARISON
2 PSI DIFFERENTIAL - LIQUID PROPANE





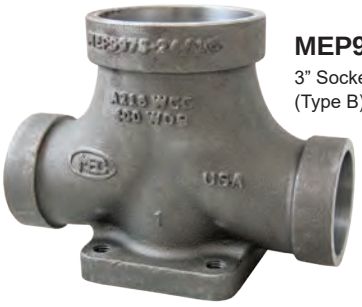
MEC ***Excela-Flange***™ High Flow Socket Weld Tees			
Part No.		Description	Weight (lbs.)
WCC A216 Steel	CF8M Stainless Steel		
MEP995S-16	**MEP995SS-16**	2"x 2"x 2" Socket Weld High Flow Tee Body	6.1
MEP995S-24/16	**MEP995SS-24/16**	3"x 2"x 2" Socket Weld High Flow Tee Body	7.8
MEP995SBW-16	**MEP995SSBW-16**	2"x 2"x 2" Butt Weld High Flow Tee Body	4.2
MEP999S-16	**MEP999SS-16**	4 Bolt Type A x 2"x 2" Socket Weld High Flow Tee Body	7.0
MEP999SBW-16	**MEP999SSBW-16**	4 Bolt Type A x 2"x 2" Butt Weld High Flow Tee Body	5.72
MEC ***Excela-Flange***™ High Flow Socket Weld Elbows			
Part No.		Description	Weight (lbs.)
WCC A216 Steel	CF8M Stainless Steel		
MEP996S-16	**MEP996SS-16**	2" x 2" Socket Weld High Flow Elbow Body-Steel	3.8
MEP996SBW-16	**MEP996SSBW-16**	2" x 2" Butt Weld High Flow Elbow Body-Steel	2.5
MEP996S-24	**MEP996SS-24**	3" x 3" Socket Weld High Flow Elbow Body-Steel	6.7

BUILT & TESTED
IN THE USA

EXCELA-FLANGE™ SERIES

3” x 2” x 2” x 4-BOLT FLANGE HIGH FLOW CROSS-OVER SELF LOADING INTAKE ADAPTER

Specifically designed to allow for high flow liquid transfer in auxiliary self load cross-over line applications on mobile transport trailers. The MEP997S-24/16 is equipped with a 3” socket weld connection, to allow direct connection to ME994S-3F Series Excela-Flange Internal Valves and (2) 2” socket weld discharge ports as well as an auxiliary 4 bolt (type B) intake flange. The 4 bolt (type B) intake flange allows for maximum product flow, while providing a convenient flange union for system maintenance.



MEP997-24/16

3” Socket Weld X (2) 2” Socket Weld X 2”-4 Bolt (Type B) Flange Adapter

FEATURES

- All steel (WCC A216) or stainless steel (CF8M) construction for maximum durability.
- Rated 400 WOG
- For use with all Type A (ME840 / ME841 Series) companion flanges

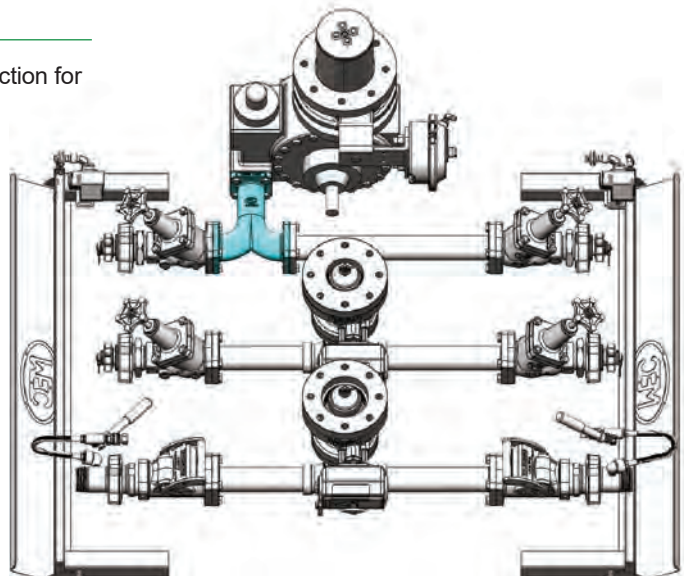
Part No.		Description	Flange Type	Weight (lbs.)
WCC A216 Steel	CF8M Stainless Steel			
MEP997S-24/16	**MEP997SS-24/16**	3” Socket Weld x (2) 2” Socket Weld x 4 Bolt Flange Intake Adapter	B	10.0

2”- 4-BOLT FLANGE HIGH FLOW EXTENDED AUXILIARY PUMP DISCHARGE TEE ADAPTER

Designed to allow for high flow liquid transfer from the pump auxiliary discharge on mobile transport applications. The MEP999SPE-16 Series is available in WCC A216 Steel or CF8M Stainless steel construction and features a high flow tee design with 2” – 4 bolt type “A” (O-ring Groove) ***Excela-Flange™*** inlet/outlet connections.

FEATURES

- All steel (WCC A216) or stainless steel (CF8M) construction for maximum durability.
- Rated 400 WOG
- For use with all Type B (ME842 / ME843 Series) companion flanges



MEP999SPE-16

Part No.	Description	Material	Flange Type	Weight (lbs.)
MEP999SPE-16	***Excela-Flange™*** 2” -4 Bolt (3) Extended Tee Adapter	WCC A216 Steel	A	12.1
MEP999SSPE-16		CF8M Stainless Steel	A	12.8

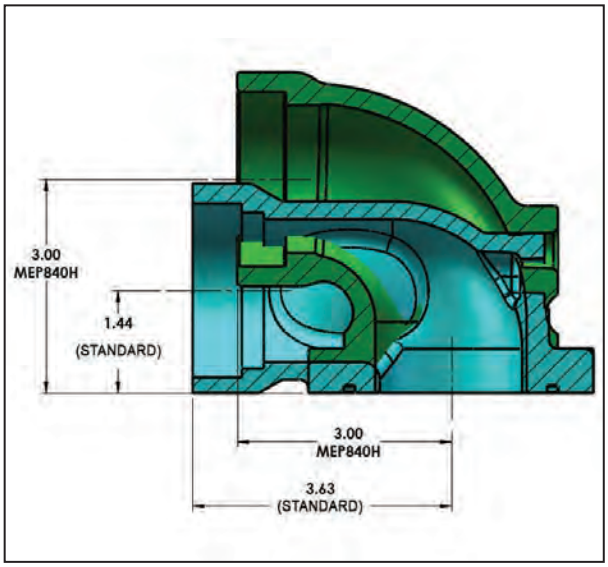
HIGH CAPACITY 3” BOBTAIL PUMP DISCHARGE ELBOWS

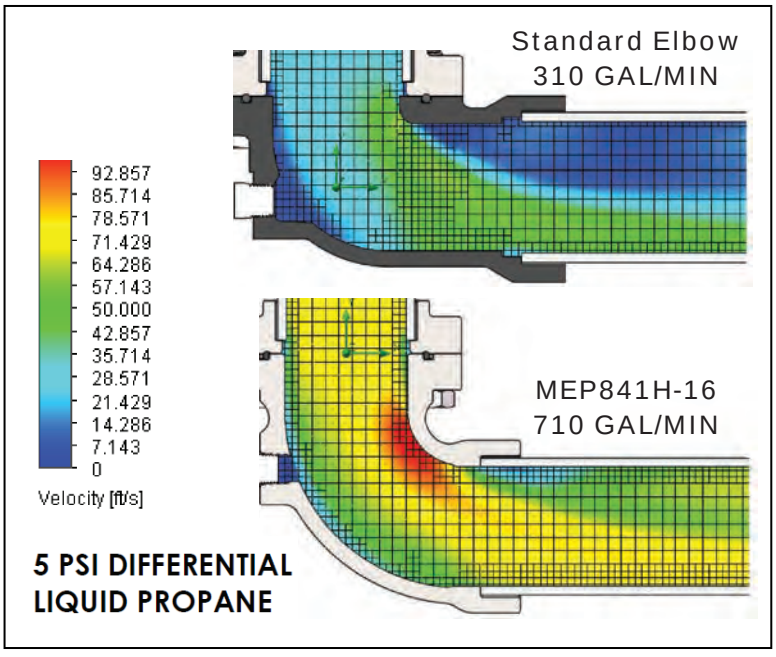
These high capacity bobtail pump discharge elbows are designed to maximize the efficiency and flow rate at the outlet of the pump while minimize pressure loss due to the 90 degree directional change at the pump outlet needed to direct product to the rear of the vehicle where it is being dispensed. The MEP840H has carefully modeled radiuses and contours that allow it to flow over 50% more than other standard discharge elbows with 50% less pressure differential, thereby minimizing pump wear and maximizing pumping efficiency. When paired with other Excela-Flange™ products the bobtail can perform up to its full potential. The MEP840H series is standard with a 1/4” FNPT plugged test port and is available with NPT or socket weld outlet. Suitable for use in mobile or stationary applications.

FEATURES

- All steel or stainless steel construction for maximum durability and weldability
- Available in 2” FNPT or 2” Socket Weld configurations
- Zinc Plated for maximum corrosion resistance
- Rated 400 WOG
- Includes mounting bolts and O-ring
- 1/4” FNPT plugged test port

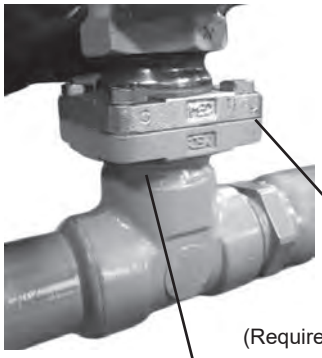
Part No.		Description	Flange Type	Fits Pump Model(s)
WCC A216 Steel	CF8M Stainless Steel			
MEP840H-16	**MEP840HSS-16**	2” FNPT 4 Bolt High Capacity 90° Flange Adapter Elbow w/ 1/2-13 Bolts & O-Ring	Type A	TLGLF3
MEP841H-16	**MEP841HSS-16**	2” Socket Weld 4 Bolt High Capacity 90° Flange Adapter Elbow w/ 1/2-13 Bolts & O-Ring		TLGLF3
MEP840HC-16	–	2” FNPT 4 Bolt High Capacity 90° Flange Adapter Elbow w/ 3/8-16 Bolts & O-Ring	Type C	Z3200
MEP841HC-16	–	2” Socket Weld 4 Bolt High Capacity 90° Flange Adapter Elbow w/ 3/8-16 Bolts & O-Ring		Z3200





4 BOLT UNIONS & COMPANION FLANGES

These 4 bolt unions can be used anywhere system piping needs to be joined together between shut off valves. Using piping unions such as these significantly improves the ease by which maintenance can be performed particularly where long runs or multiple directional changes are necessary. Our flange unions feature a captured o-ring design, hardened mounting bolts, and are available in NTP or Socket Weld configurations. Suitable for use in mobile or stationary applications.



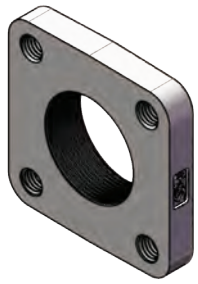
ME841-16F
(Requires purchase of flat face flange)
TYPE A FLANGE

ME843-16-107
(Requires purchase of mating kit)
TYPE B FLANGE

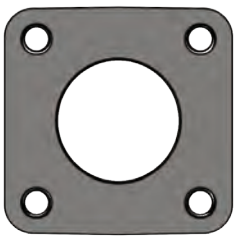
FEATURES

- All steel or stainless steel construction for maximum durability and weldability
- Available in 1-1/4" - 2" FNPT or Socket Weld configurations
- Zinc plated flange faces for maximum corrosion resistance
- No plating on weld surfaces for improved weld quality with minimum weld prep
- Approved for use in LPG or NH_3 service
- Rated 400 WOG

MEP840/MEP841



TYPE "B"

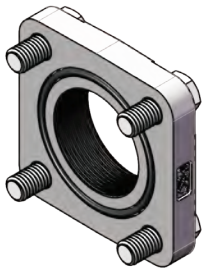


FLAT FACE

MEC Flat Face Flanges				
Part No.		Description	Flange Type	Weight (lbs.)
WCC A216 Steel	CF8M Stainless Steel			
ME842-10-107	**ME842SS-10-107**	1-1/4" FNPT Tapped 4 Bolt Flat Face Flange Adapter	B	2.7
ME843-10-107	**ME843SS-10-107**	1-1/4" Socket Weld 4 Bolt Flat Face Flange Adapter	B	2.6
ME842-12-107	**ME842SS-12-107**	1-1/2" FNPT Tapped 4 Bolt Flat Face Flange Adapter	B	2.6
ME843-12-107	**ME843SS-12-107**	1-1/2" Socket Weld 4 Bolt Flat Face Flange Adapter	B	2.5
ME842-16-107	**ME842SS-16-107**	2" FNPT Tapped 4 Bolt Flat Face Flange Adapter	B	2.2
ME843-16-107	**ME843SS-16-107**	2" Socket Weld 4 Bolt Flat Face Flange Adapter	B	2.0

MEC Universal Flange Kit				
Part No.		Description *	Flange Type	Weight (lbs.)
WCC A216 Steel	CF8M Stainless Steel			
ME840-10F	**ME840SS-10F**	1-1/4" FNPT 4 Bolt Flange Adapter Plate	A	3.0
ME841-10F	**ME841SS-10F**	1-1/4" Socket Weld 4 Bolt Flange Adapter Plate	A	2.9
ME840-12F	**ME840SS-12F**	1-1/2" FNPT 4 Bolt Flange Adapter Plate	A	2.8
ME841-12F	**ME841SS-12F**	1-1/2" Socket Weld 4 Bolt Flange Adapter Plate	A	2.7
ME840-16F	**ME840SS-16F**	2" FNPT 4 Bolt Flange Adapter Plate	A	2.5
ME841-16F	**ME841SS-16F**	2" Socket Weld 4 Bolt Flange Adapter Plate	A	2.3
MEP840-10	–	1-1/4" FNPT 4 Bolt 90° Flange Adapter Elbow	A	4.8
MEP841-10	–	1-1/4" Socket Weld 4 Bolt 90° Flange Adapter Elbow	A	4.7
MEP840-12	–	1-1/2" FNPT 4 Bolt 90° Flange Adapter Elbow	A	4.6
MEP841-12	–	1-1/2" Socket Weld 4 Bolt 90° Flange Adapter Elbow	A	4.6
MEP840-16	–	2" FNPT 4 Bolt 90° Flange Adapter Elbow	A	4.3
MEP841-16	–	2" Socket Weld 4 Bolt 90° Flange Adapter Elbow	A	4.2

*All Flange kits include bolts and o-ring



TYPE "A"

O-RING SEAL

BUILT & TESTED
IN THE USA

HOSE REEL/STANCHION SWIVELS

These swivels are a perfect fit for both mobile and stationary service applications ranging from hose reel inlets to stanchion hose connections and feature high load, sealed bearing packs for smooth 360 degree operation and superior service life. The ME854 & ME855 Series swivels also feature the MEC standard 4-bolt ***Excela-Flange***™ inlets and offer both ***Excela-Flange***™ and female NPT outlet options for ease of installation and serviceability.

The ME854 Series 90 degree elbow configurations also feature two ¼" FNPT plugged auxiliary ports for convenient installation of hydrostatic relief valves or other appurtenances.

All model configurations are available in zinc-plated ductile iron or CF8M stainless steel construction and are compatible with the full range of MEC ***Excela-Flange***™ NPT and socket weld flange kits.

ME854S-4B-12
90 Degree 4-Bolt Flange
x 1-1/2" NPT

ME854S-4B-4B
90 Degree 4-Bolt Flange (2)

ME855S-4B-16
Straight 4-Bolt Flange
x 1-1/2" NPT

ME855S-4B-4B
Straight 4-Bolt Flange (2)

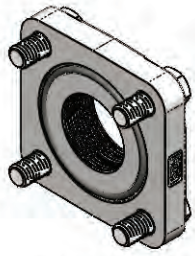
UL LISTED

FEATURES

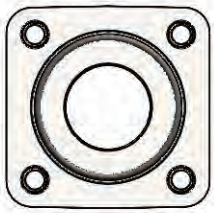
- Operating Temperature :-40°F to +250°F
- Maximum Allowable Working Pressure: 400 PSI
- 5x hydrostatic pressure evaluation to: 2,000 PSI
- No greasing or lubrication required
- Stainless Steel stationary seal
- Seal package self-compensates for wear
- Mounting Options: 90 degree or straight
- 360° free rotation
- High load sealed ball bearing
- Body Material: Durable ductile iron (zinc plated) or CF8M Stainless Steel
- Low friction carbon graphite dynamic seal with Stainless steel reinforcement ring
- Plugged 1/4" NPT ports for safety relief valve *(90° configurations only)
- UL Listed for LP-Gas, NH3, Natural Gas, and Refined Fuels in accordance with UL 567 Standard

Part No.		Direction Type	Inlet Connection	Outlet Connection
Ductile Iron	Stainless Steel			
ME854S-4B-4B *	ME854SS-4B-4B*	90 Degree	Requires Type "A" 4-Bolt Flange	Type "D" 4-Bolt Flange
ME854S-4B-12	ME854SS-4B-12	90 Degree		1-1/2" FNPT
ME854S-4B-16	ME854SS-4B-16	90 Degree		2" FNPT
ME855S-4B-4B *	ME855SS-4B-4B*	Straight		Type "D" 4-Bolt Flange
ME855S-4B-12	ME855SS-4B-12	Straight		1-1/2" FNPT
ME855S-4B-16	ME855SS-4B-16	Straight		2" FNPT

*These configurations use type "D" outlet flanges which have a self-centering feature



TYPE "D"



O-RING SEAL

MEC Type "D" Universal Flange Kits			
Part No.		Description	Flange Type
WCC A216 Steel	CF8M Stainless Steel		
ME852-12F	ME852SS-12F	1-1/2" FNPT 4 Bolt Flange Adapter Plate	D
ME853-12F	ME853SS-12F	1-1/2" Socket Weld 4 Bolt Flange Adapter Plate	D
ME852-16F	ME852SS-16F	2" FNPT 4 Bolt Flange Adapter Plate	D
ME853-16F	ME853SS-16F	2" Socket Weld 4 Bolt Flange Adapter Plate	D

NOTE: All flange kits include (4) stainless cap screws and o-ring

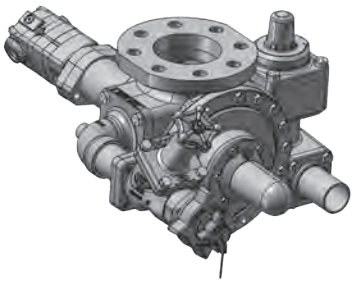
EXCELA-FLANGE™ SERIES

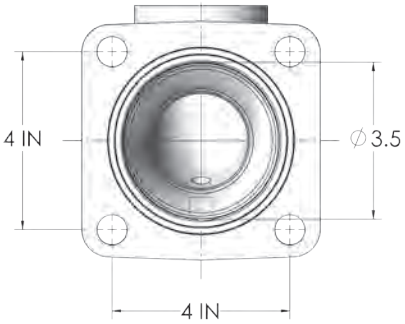
HIGH FLOW PUMP AUXILIARY SUCTION INTAKE FLANGE ELBOWS

Specifically designed to bolt directly to 3"- 4 bolt flange auxiliary suction intake openings on standard 4"flange mount mobile transport trailer pumps to eliminate unwanted threaded joints. This high flow elbow allows the auxiliary intake to be oriented either forward or rear facing for applications where the pump is being hydraulically driven. The MEP841H-24/16 can be oriented for both curbside (right) or roadside (left) service or downward facing for both when used in conjunction with MEP995SBW-16 or MEP995-16.

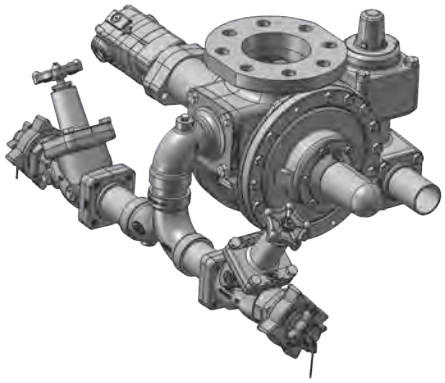
FEATURES

- Zinc plated WCC A216 steel or CF8M stainless steel body
- Rated 400 WOG
- Includes standard 1/4" FNPT plugged test port
- Includes mounting o-ring





MEP841H-24/16



Part No.	Description	Weight (lbs.)	Material
MEP841H-24/16	***Excela-Flange***™ 3" - 4 Bolt (Type A) x 2" Socket Weld Auxiliary Suction Intake Elbows and O-ring	7.36	WCC A216 Steel
MEP841HSS-24/16		7.78	CF8M Stainless Steel

HIGH FLOW 4" PUMP AUXILIARY SUCTION INTAKE FLANGE ADAPTERS

Specifically designed to bolt directly to 3"- 4 bolt flange auxiliary suction intake openings on standard 4" flange mount mobile transport trailer pumps to eliminate unwanted threaded joints. The MEP998 is equipped with a 4 bolt type A flange inlet for mounting to either ME842 or ME843 series ***Excela-Flange***™ companion flanges where additional piping is desired or direct bolt onto ME819P Series ***Excela-Flange***™ globe valves for a worry-free easy to maintain auxiliary intake assembly.

FEATURES

- Zinc plated ductile iron body
- Rated 400 WOG
- For use with all Type B (ME842 & ME843 Series) companion flanges

Part No.	Description	Weight (lbs.)
MEP998	***Excela-Flange***™ 3" - 4 Bolt (Type A) x 2" - 4 Bolt (Type A) Auxiliary Suction Intake	6.25

BUILT & TESTED IN THE USA

VERSA-FILL™ HIGH FLOW BYPASS VALVES
for BOBTAIL TRUCK APPLICATIONS

Versa-Fill™ Bypass Valves are designed to protect pumps from damage due to excessive pressure while providing optimal flow, maximum adjustability, versatility and performance of the pumping system. Versa-Fill features three distinct settings and functions including normal bypass, auxiliary suction evacuation/self-load and small cylinder/ forklift filling mode.

Normal Bypass Mode: functions just like our standard ME840 Series bypass valve during domestic tank deliveries by pushing maximum pump output to the hose end delivery nozzle while protecting the pump if the nozzle is closed during delivery.

ME845C-125

PATENT PENDING

Auxiliary Suction Evacuation/Self-Load Mode: allows for 100% of pump flow to be diverted through a built-in full port flow control valve, permitting the pump suction inlet to be utilized for tank evacuation or self-loading without secondary manual load loop piping.

Small Cylinder/Forklift Fill Mode: a built in, fully adjustable proportional flow control valve allows a portion of flow from the pump to be diverted back to the tank in order to reduce flow rates at the hose end delivery nozzle to safely and accurately fill small cylinders.

FEATURES

- Drop-in replacement to all standard bypass valves
- Repeatable flow rates for filling small cylinders such as forklift tanks - can be precisely tuned and set to match any truck's plumbing
- Evacuation/Self-load flow rates up to 125 GPM with less than 2 PSI differential pressure
- Bypass performance is equivalent to standard bypass valves
- Flexible installation options include left hand or right hand with lever control in any orientation necessary to allow easy access
- All Stainless Steel internal components and external control levers
- Ductile Iron or Stainless Steel option
- Alternative springs available: ME840-16-108-40 (20-40 PSI)
  ME840-16-108-70 (40-70 PSI)
  ME840-16-108-90 (70-90 PSI)
  ME840-16-108-150 (125-150 PSI)

Versa-Fill™ Bypass Valves - NPT Flange Configurations				
Part No.		Description	Poppet Type	Standard Spring Range*
WCC A216 Steel	CF8M Stainless Steel			
ME845-125	**ME845SS-125**	1-1/4" - 2" Versa-Fill Bypass Valve w/o flanges	Standard/ High Flow	90-125 PSI
ME845C-125	**ME845CSS-125**		Classic Flow	
ME845-10-125	**ME845SS-10-125**	1-1/4" FNPT Versa-Fill Bypass Valve	Standard/ High Flow	
ME845C-10-125	**ME845CSS-10-125**		Classic Flow	
ME845-12-125	**ME845SS-12-125**	1-1/2" FNPT Versa-Fill Bypass Valve	Standard/ High Flow	
ME845C-12-125	**ME845CSS-12-125**		Classic Flow	
ME845-16-125	**ME845SS-16-125**	2" FNPT Versa-Fill Bypass Valve	Standard/ High Flow	
ME845C-16-125	**ME845CSS-16-125**		Classic Flow	

* **Alternate spring ranges available**. Please see replacement parts section

VERSA-FILL™ HIGH FLOW BYPASS VALVES

Versa-Fill™ Bypass Valves - Weld Flange Configurations			
Part No.		Description	Standard Spring Range*
WCC A216 Steel	CF8M Stainless Steel		
ME846S-10-125	**ME846SS-10/125**	1-1/4" Weld Flange High Flow Versa-Fill Bypass Valve	90-125 PSI
ME846-12-125	**ME846SS-12/125**	1-1/2" Weld Flange High Flow Versa-Fill Bypass Valve	
ME846-16-125	**ME846SS-16/125**	2" Weld Flange High Flow Versa-Fill Bypass Valve	
ME846C-10-125	**ME846SSC-10/125**	1-1/4" Weld Flange Classic Flow Versa-Fill Bypass Valve	
ME846C-12-125	**ME846SSC-12/125**	1-1/2" Weld Flange Classic Flow Versa-Fill Bypass Valve	
ME846C-16-125	**ME846SSC-16/125**	2" Weld Flange Classic Flow Versa-Fill Bypass Valve	

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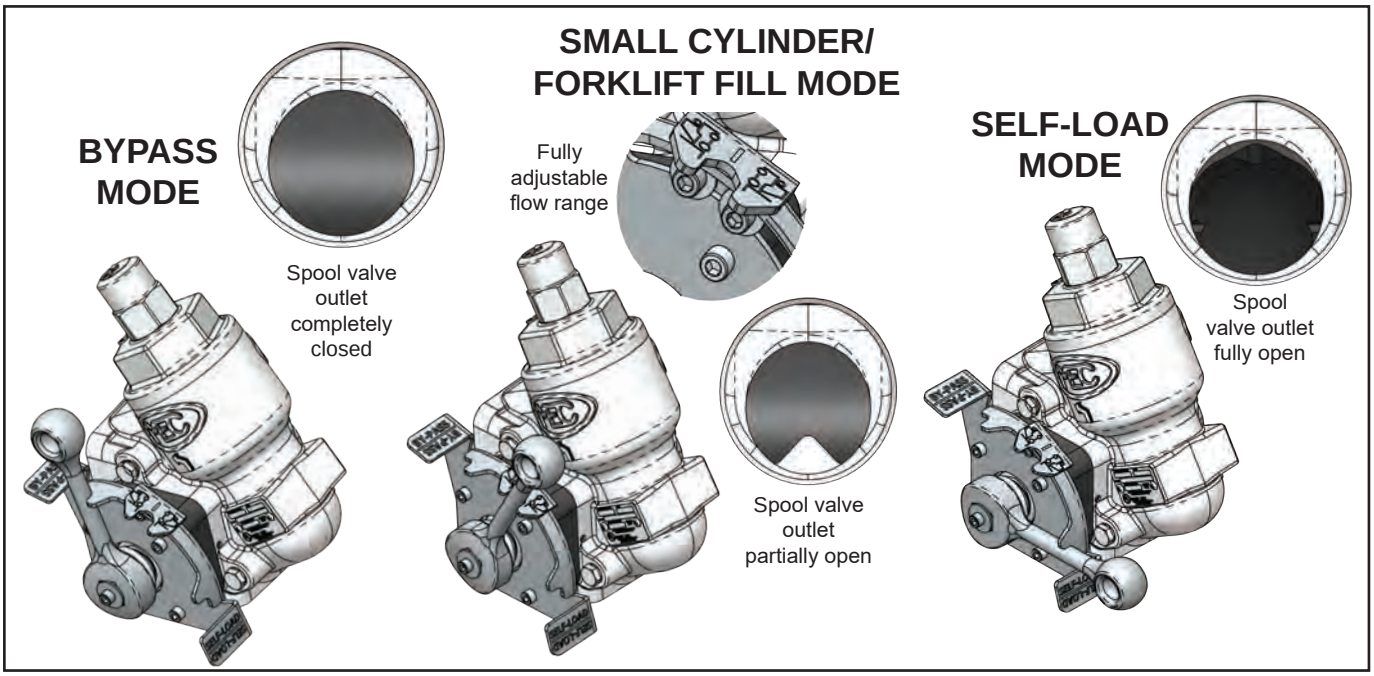
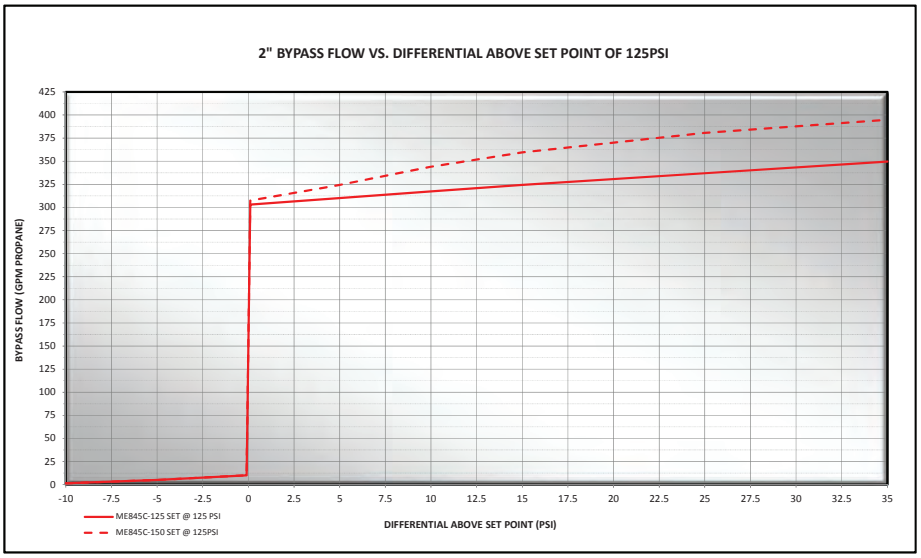
* Alternate spring ranges available. Please see options under features





ME840-16-104
Standard Poppet

ME840C-16-104
Classic Poppet
*Designed to create higher differential pressure and increased poppet travel in low flow applications such as bobtails

BUILT & TESTED IN THE USA

HIGH FLOW BYPASS VALVES
FOR BOBTAIL TRUCK / PLANT APPLICATIONS

These bypass valves are specifically designed to protect truck and plant pumps from damage due to excessive pressure while providing the industry's best bypass flow rates across a full range of set pressures. They feature wide open flow channels with an orifice weep hole chamber to prevent the valve from slamming open / closed. The weep hole chamber also helps prevent valve seat chatter by allowing constant pressure communication between both the upstream and downstream side of the seat.

FEATURES

- All ductile iron body and bonnet or stainless steel option
- All stainless steel wetted components
- Heavy duty protective stem cap
- Wide open flow channels for industry best flow rates
- Orifice weep hole to maintain constant pressure above and below valve seat
- Large range of set pressure springs
- Weldable steel NPT and socket weld flanges
- Zinc dichromate finish for maximum corrosion resistance
- Available with or without flanges factory assembled
- Flanges available 1-1/4" through 2" NPT and socket weld construction
- Universal 4 bolt, flanged body configuration
- Two 1/4" FNPT plugged auxiliary pressure ports
- Factory set at 125 PSI
- Alternative springs available: ME840-16-108-40 (20-40 PSI)
  ME840-16-108-70 (40-70 PSI)
  ME840-16-108-90 (70-90 PSI)
  ME840-16-108-150 (125-150 PSI)

ME840-16/125

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Bypass Valves - NPT Flange Configurations				
Part No.		Description	Standard Spring Range(1)	Flange Type(2)
WCC A216 Steel	CF8M Stainless Steel			
ME840-10-125	**ME840SS-10-125**	1-1/4" FNPT High Flow Bypass Valve	90-125 PSI	A
ME840C-10-125	**ME840SSC-10-125**	1-1/4" FNPT Classic Flow Bypass Valve		A
ME840-12-125	**ME840SS-12-125**	1-1/2" FNPT High Flow Bypass Valve	90-125 PSI	A
ME840C-12-125	**ME840SSC-12-125**	1-1/2" FNPT Classic Flow Bypass Valve		A
ME840-16-125	**ME840SS-16-125**	2" FNPT High Flow Bypass Valve	90-125 PSI	A
ME840C-16-125	**ME840SSC-16-125**	2" FNPT Classic Flow Bypass Valve		A
ME840-125	**ME840SS-125**	1-1/4"-2" Universal High Flow Bypass w/o Flanges	90-125 PSI	B
ME840C-125	**ME840SSC-125**	1-1/4" -2" Universal Classic Flow Bypass w/o Flanges		B

(1) Alternate spring ranges available. Please see replacement parts section in back of catalog
(2) See page 67 for flange options

ME840-16-104
Standard Poppet

Bypass Valves - Weld Flange Configurations				
Part No.		Description	Standard Spring Range(1)	Flange Type(2)
WCC A216 Steel	CF8M Stainless Steel			
ME841-10-125	**ME841SS-10-125**	1-1/4" Weld Flange High Flow Bypass Valve	90-125 PSI	A
ME841C-10-125	**ME841SSC-10-125**	1-1/4" Weld Flange Classic Flow Bypass Valve	90-125 PSI	A
ME841-12-125	**ME841SS-12-125**	1-1/2" Weld Flange High Flow Bypass Valve	90-125 PSI	A
ME841C-12-125	**ME841SSC-12-125**	1-1/2" Weld Flange Classic Flow Bypass Valve	90-125 PSI	A
ME841-16-125	**ME841SS-16-125**	2" Weld Flange High Flow Bypass Valve	90-125 PSI	A
ME841C-16-125	**ME841SSC-16-125**	2" Weld Flange Classic Flow Bypass Valve	90-125 PSI	A

(1) Alternate spring ranges available. Please see replacement parts section in back of catalog
(2) See page 67 for flange options

ME840C-16-104
Classic Poppet
*Designed to create higher differential pressure and increased poppet travel in low flow applications such as bobtails

HIGH FLOW BYPASS VALVES

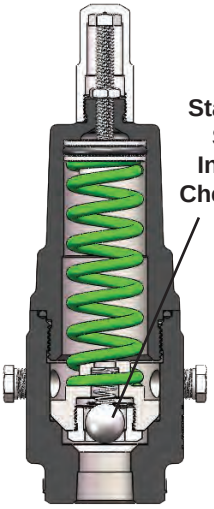
FOR DISPENSING APPLICATIONS

Intended for use in small cylinder filling applications as a bypass and primer valve for turbine style dispensing pumps. These bypass valves feature a special “check ball” mechanism that helps eliminate vapor from liquid while keeping the pump flooded and properly primed. The priming and vapor elimination features in combination with the high flow bypass design significantly reduces pump wear and promotes seal longevity.

FEATURES

- Ductile iron body and bonnet construction
- Large range of set pressure springs
- Two 1/4” FNPT plugged auxiliary pressure ports (outlet side)
- Stainless steel main valve poppet
- Heavy duty protective stem cap
- Available in 3/4” & 1” FNPT threaded versions
- Factory set at 125 PSI
- Durable powder coat finish
- Alternative springs available: ME840-8-108-60 (25-60 PSI)
  ME840-8-108-225 (100-225 PSI)

ME840-6-150



ME840-8-150

Part No.	Description	Standard Spring Range*
ME840-6-150	3/4” FNPT High Flow Bypass Valve	50-150 PSI
ME840-8-150	1” FNPT High Flow Bypass Valve	50-150 PSI

* Alternate spring ranges available. Please see replacement parts section in back of catalog

BUILT & TESTED IN THE USA

FOR PLANT APPLICATIONS

Specifically designed for plant systems where maximum bypass flow is necessary to protect the pump from rapid pressure changes or over pressurization. Perfectly suited for 4” base mount pumps or larger pump applications.

BUILT & TESTED IN THE USA

FEATURES

- Ductile iron body and bonnet construction
- All stainless steel internal wetted components
- Bonnet / seat positioned at 35° angle for maximum product flow
- Downstream bleed port to boost product flow during bypass
- Two 1/4” FNTP plugged auxiliary pressure ports
- Heavy duty protective stem cap
- Factory set at 100 PSI
- Durable powder coat finish

ME840-24/100

ME840-24-3F

Part No.	Description	Standard Spring Range*
ME840-24-100	3” FNPT High Flow Bypass Valve	50-100 PSI
ME840-24-200	3” FNPT High Flow Bypass Valve	100-200 PSI
ME840-24-3F-100	3” -300# Flanged High Flow Bypass Valve	50-100 PSI
ME840-24-3F-200	3” -300# Flanged High Flow Bypass Valve	100-200 PSI

* Alternate spring ranges available. Please see replacement parts section in back of catalog

BUILT & TESTED IN THE USA

EXCELA-FLANGE™ HOSE END VALVES

The ME1075/ME1005 Series Excela-Flange™ Hose End Valves have been designed for optimized high flow performance and low emissions, utilizing a streamlined bonded seal and flow path. Featuring Stainless Steel construction for maximum service life while incorporating an integrated flange connection, swivel design and ergonomic nozzle grip.

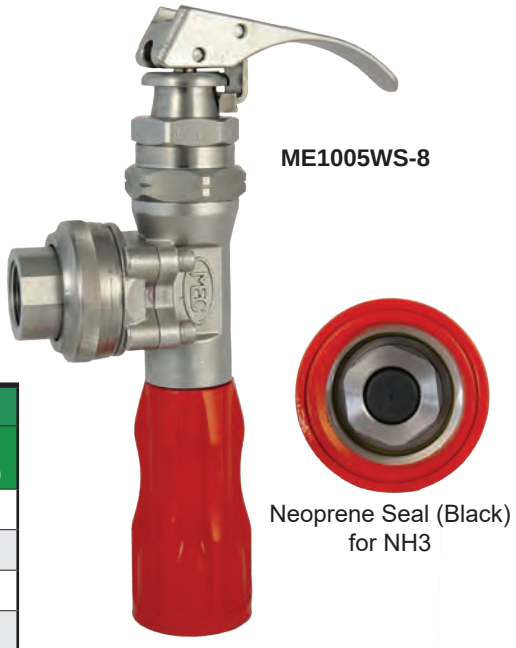
ME1075 SERIES - LPG SERVICE (FKM)			
Part #	**Description**	**Inlet (FNPT)**	**Outlet (F. Acme)**
ME1075	Valve Only - No inlet flange or swivel	-	1-3/4”
ME1075-6	3/4” FNPT Inlet Flange- Factory installed	3/4”	1-3/4”
ME1075-8	1” FNPT Inlet Flange- Factory installed	1”	1-3/4”
ME1075WS-6	3/4” FNPT Inlet Swivel- Factory installed	3/4”	1-3/4”
ME1075WS-8	1” FNPT Inlet Swivel - Factory installed	1”	1-3/4”

ACCESSORIES		
Part #	**Description**	**Material**
ME1075V-6FK	3/4” FNPT Inlet Flange Kit *	Stainless Steel
ME1075V-8FK	1” FNPT Inlet Flange Kit *	
ME857V-6	3/4” FNPT Inlet Swivel Kit *	
ME857V-8	1” FNPT Inlet Swivel Kit *	
MEP801	Hose End Valve Holster	Aluminum

* Kits include (4) Stainless cap screws and FKM flange seal o-ring

FEATURES

- Stainless Steel construction for maximum service life
- 4 bolt ***Excela-Flange***™ inlet connection for quick service and replacement
- Integrated stainless swivel inlet design
- Vents less than .50cc for minimal loss of product at disconnect
- Split bonnet - sealed packing chamber design to protects seals
- Dedicated internal operation spring for smooth performance
- Self-locking toggle handle prevents accidental valve discharge
- Toggle handle and stem assembly rotate 360°
- High flow design for increased operational efficiency
- Ergonomic nozzle grip with stainless steel 1 ¾” Female Acme insert



ME1005 SERIES - NH3 SERVICE (NEOPRENE)			
Part #	**Description**	**Inlet (FNPT)**	**Outlet (F. Acme)**
ME1005	Valve Only - No inlet flange or swivel	-	1-3/4”
ME1005-6	3/4” FNPT Inlet Flange- Factory installed	3/4”	1-3/4”
ME1005-8	1” FNPT Inlet Flange- Factory installed	1”	1-3/4”
ME1005WS-6	3/4” FNPT Inlet Swivel- Factory installed	3/4”	1-3/4”
ME1005WS-8	1” FNPT Inlet Swivel - Factory installed	1”	1-3/4”

ACCESSORIES		
Part #	**Description**	**Material**
ME1005N-6FK	3/4” FNPT Inlet Flange Kit *	Stainless Steel
ME1005N-8FK	1” FNPT Inlet Flange Kit *	
ME857N-6	3/4” FNPT Inlet Swivel Kit *	
ME857N-8	1” FNPT Inlet Swivel Kit *	
MEP801	Hose End Valve Holster	Aluminum

* Kits include (4) Stainless cap screws and neoprene flange seal o-ring


ME857N-6


ME1075N-8FK

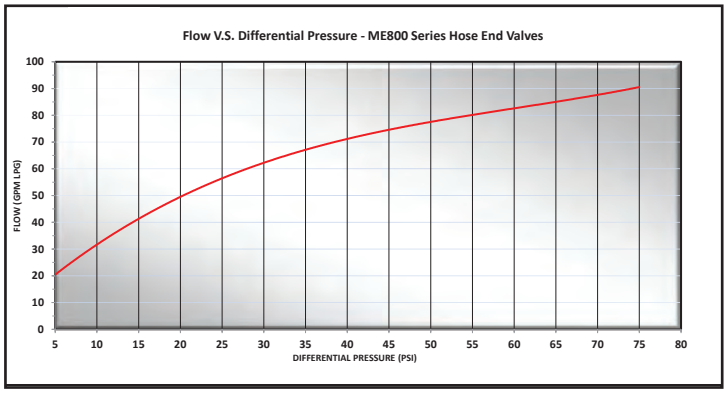
HOSE END VALVES

HIGH FLOW & LOW EMISSION

These hose end valves are leading the industry in minimal product loss during disconnect without sacrificing flow. They have instant full-on flow with the added protection of a quick closing, self-locking handle to prevent accidental opening of the valve during transport. They are designed to be used at the end of a filling hose on a bobtail, dispensing system or nurse tank.

FEATURES

- All stainless steel component construction
- Molded and riveted on valve main seal
- Vents less than .50cc for minimal loss of product at disconnect
- Self-locking toggle handle prevents accidental valve opening
- Toggle handle and stem assembly rotate 360°
- Durable ductile iron valve body with automotive grade powder coat finish
- Stainless steel 1-3/4" female Acme insert cast into the handle
- No additional adapters or connectors needed for operation
- Optional extended version offers 6 inches of additional reach for filling underground containers or other hard to reach applications
- Optional composite style offers a durable lightweight handle that is resistant to frosting and cold transfer during the filling operation
- Optional factory installed ***E-ZTurn*** stainless steel swivel
- **NOW AVAILABLE WITH FKM seals for endurance of high temperatures, contaminated gas, propylene gas as well as many hydrocarbon gases.**



Part No.	Inlet (FNPT)	Outlet (F. Acme)	Handle Style	Handle Material	Factory Installed E-Z Turn Swivel	Extended Version	Accessories
							Holster
ME800 *	1"	1-3/4"	Standard	Aluminum	No	No	MEP801
ME800-6 *	3/4"	1-3/4"	Standard	Aluminum	No	No	MEP801
ME800WS	1"	1-3/4"	Standard	Aluminum	Yes	No	MEP801
ME800C	1"	1-3/4"	Standard	Composite	No	No	MEP801
ME800CWS	1"	1-3/4"	Standard	Composite	Yes	No	MEP801
ME800G *	1"	1-3/4"	Fluted	Aluminum	No	No	MEP801
ME800G-6 *	3/4"	1-3/4"	Fluted	Aluminum	No	No	MEP801
ME800GWS	1"	1-3/4"	Fluted	Aluminum	Yes	No	MEP801
ME800GC	1"	1-3/4"	Fluted	Composite	No	No	MEP801
ME800GCWS	1"	1-3/4"	Fluted	Composite	Yes	No	MEP801
ME800EXT *	1"	1-3/4"	Standard	Aluminum	No	Yes	No
ME800EXTWS	1"	1-3/4"	Standard	Aluminum	Yes	Yes	No

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* To order FKM seal materials add "V" after the prefix part number - i.e. ME800V, ME800GV-6
WARNING - FKM seal materials are not compatible with NH_3 use

BUILT & TESTED IN THE USA

HOSE END VALVE LOCK

Designed to prevent valve operation while in place, eliminating the possibility of accidental discharge and/or theft of product. Simply slide the lock over the handle/bonnet of the hose end or quick acting dispensing valve. For maximum security a common padlock can be installed.

ME540

FEATURES

- All stainless steel construction
- 3/8” diameter through holes for standard 2-1/2” shackle style padlock

Part No.	Fits	Accessories	
		2-1/2” Deep Shackle Padlock	
		Keyed Alike	Keyed Different
ME540	ME800, ME810, ME820 Series	ME540P-KA	ME540P-KD

BUILT & TESTED IN THE USA

HOSE END VALVE HOLSTERS

Designed to provide a durable and convenient receptacle to store bobtail hose end delivery valves during over-the-road transit. This holster can be mounted fully above deck or partially below deck in left or right hand hose reel applications with an ergonomic angle providing optimum conditions for delivery personnel.

FEATURES

- All aluminum and stainless steel construction
- Urethane anti-vibration valve sleeve to prevent incidental damage to delivery valve
- Machined adjustment ribs for easy, secure height adjustment
- Deck backing plate and all mounting hardware supplied

MEP801

MEP802

MEP804

Part No.	Description	Fits	Accessories
MEP801	Bobtail Hose End Valve Holster - Aluminum	ME800 Series	MEP801H (Urethane Weather Hood)
MEP802	Bobtail Hose End Valve Holster - Aluminum w/ All Weather Hood	ME800 Series	MEP801-04 (Urethane Holster Strap)
MEP804	Bobtail Quick-Jaw Hose End Valve Holster - Aluminum w/ All Weather Hood	ME800 Series, AL363 or AL366 (Squibb Taylor)	MEP801H (Urethane Weather Hood) MEP801-04 (Urethane Holster Strap)

BUILT & TESTED IN THE USA

HOSE END SWIVEL CONNECTIONS

The ***E-ZTurn*** hose end swivel connector allows the hose end valve to rotate 360° creating an easier connection to the tank filler valve while under pressure. It also promotes hose life by preventing twisting and kinking during reeling and unreeling from hose reel.

FEATURES

- All stainless steel construction for maximum durability and corrosion resistance
- Large bearing surface for increased strength and durability
- 360° rotation under maximum working pressure of 400 psig
- Our UL LISTED seal pack design allows for extremely long life with no maintenance required
- Straight through bore for unobstructed flow characteristics
- See low emission hose end valves for factory installed ***E-ZTurn***

Part No.	Inlet (FNPT)	Outlet (MNPT)
ME850SS-6	3/4"	3/4"
ME850SS-6/8	3/4"	1"
ME850SS-8	1"	1"
ME850SS-8/6	1"	3/4"
ME850SS-10/8	1-1/4"	1"

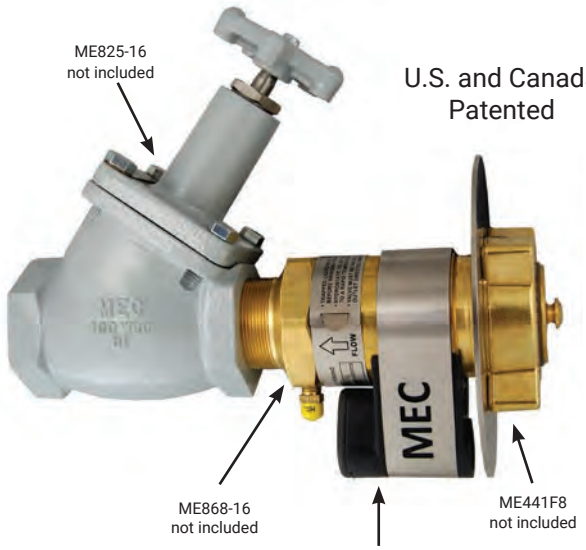
GROUNDING STUD

Designed to help prevent static electricity from being generated due to friction from the pump. In some cases static electricity can build-up enough to create an ignition source and cause an explosion.

Part No.	Thread
ME4H	3/8"-16

SMART INTERLOCK TECHNOLOGY

Designed to prevent a vehicle from being operated while the hose end delivery valve, loading line or wheel chocks are in use. The smart interlock technology connects directly to the Allison Automatic Transmission through the "Auxiliary Function Range Inhibit" or braking system for manual transmission vehicles. This revolutionary system incorporates the industry's best and most durable sensor, TURCK - which is backed with a lifetime product warranty.



BUILT & TESTED
IN THE USA

SMART INTERLOCK TECHNOLOGY FEATURES

- "Potted" TURCK proximity switch for maximum weather resistance and security against vibration
- Supplied with water tight conduit and necessary wiring hardware to reach 5' below deck with water tight receptacle plug

SENSOR BRACKET ASSEMBLY FEATURES

- Smart interlock technology
- Molded urethane sensor body housing for durability and maximum sensor protection
- Stainless steel all weather mounting band and hardware

SMART INTERLOCK TECHNOLOGY

ME200PIBK

ME890PIB

ME217PIB

BUILT & TESTED IN THE USA

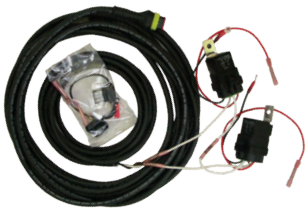
Smart Interlock Technology

MEP801PIH
ME800
Not Included

U.S. PATENT #8,132,639

MEP801PIK

Part No.	Description	Temperature Range	Accessories
ME200PIB	Sensor Bracket Assembly for ME200 Wheel Chocks	-20° to +160° F.	ME200EXT (Standoff Extension Kit)
ME200PIBK	Sensor Bracket Assembly with ME200 Wheel Chocks	-20° to +160° F.	
ME217PIB	Sensor Bracket Assembly for ME217 Series	-20° to +160° F.	MEP801PC/20 (20' Proximity Cable) MEP801PC/30 (30' Proximity Cable) Includes Water Tight Receptacle Plug
ME503PIB	Sensor Bracket Assembly for ME503-16 & ME252-16	-20° to +160° F.	
ME807PIB	Sensor Bracket Assembly for ME807 Series	-20° to +160° F.	
ME808PIB	Sensor Bracket Assembly for ME808 Series	-20° to +160° F.	
ME868PIB	Sensor Bracket Assembly for ME868 Valve Series	-20° to +160° F.	
MEP801PIH	Sensor Assembly with MEP801 Hose End Valve Holster	-20° to +160° F.	
MEP802PIH	Holster W/Proximity Interlock Sensor Assembly with All Weather Hood	-20° to +160° F.	
MEP804PIH	Bobtail Quick-Jaw Hose End Valve Holster w/ Proximity Interlock Sensor Assembly	-20° to +160° F.	
MEP801PIK	Interlock Retro Fit Kit for MEP801 Hose End Valve Holster	-20° to +160° F.	
MEP801PIKL	Low Temperature Interlock Retro Fit Kit for MEP801 Hose End Valve Holster	-50° to +160° F.	
ME890PIB	Universal Sensor Bracket Assembly for Enclosures	-20° to +160° F.	



MEP802PCK/20

Smart Interlock Technology Wiring Harness Kits						
Part No.	Description	No. of Relays	LED Power Indicator	Inline Fuse	Cable Length	Accessories
MEP801PCK/20	Wiring Harness Kit	1	Yes	Yes	20'	MEP801PC/20 (20' Proximity Cable)
MEP801PCK/30		1	Yes	Yes	30'	
MEP802PCK/20		2 (1)	Yes	Yes	20'	MEP801PC/30 (30' Proximity Cable)
MEP802PCK/30		2 (1)	Yes	Yes	30'	
MEP803PCK/30		3 (2)	Yes	Yes	30'	Includes Water Tight Receptacle Plug

(1) One additional cable required (MEP801PC/20 or MEP801PC/30)
(2) Two additional cables required (MEP801PC/20 or MEP801PC/30)

QUICK ACTING DISPENSING VALVES

Dispensing valves are designed to be used at the end of a filling hose for bobtail, dispensing system or nurse tank filling operations. These valves have instant full-on flow with the added protection of a quick closing, self-locking handle to prevent accidental opening of the valve during transport.

FEATURES

- All stainless steel internal components
- Self-locking toggle handle prevents accidental operation
- Durable ductile iron valve body with automotive grade powder coat finish
- Toggle handle and stem assembly rotate 360°
- Stainless steel factory installed vent valve

ME810 Series

c UL us

ME820 Series

Part No.		Inlet & Outlet (FNPT)	No. of Side Ports	Accessories		
				MNPT x 1-3/4 F. Acme Adapter		
Angle	Globe			Short Brass	Short Steel	Extended Steel
ME810-4	**ME820-4**	1/2”	1	ME110 ME110C	–	ME635-4 ME635G-4
ME810-6	**ME820-6**	3/4”	1	ME111 ME111C	ME111S ME111SC	ME635-6 ME635G-6
ME810-8	**ME820-8**	1”	1	ME112 ME112C	ME112S ME112SC	ME635-8 ME635G-8

c UL us

ME821 Series

Part No.	Body Style	Inlet & Outlet (FNPT)	No. of Side Ports	Accessories		
				MNPT x 1-3/4 F. Acme Adapter		
				Short Brass	Short Steel	Extended Steel
ME821-4	Globe	1/2”	2	ME110 ME110C	–	ME635-4 ME635G-4
ME821-6	Globe	3/4”	2	ME111 ME111C	ME111S ME111SC	ME635-6 ME635G-6
ME821B-4 (1)	Globe	1/2”	2	ME110 ME110C	–	ME635-4 ME635G-4
ME821B-6 (1)	Globe	3/4”	2	ME111 ME111C	ME111S ME111SC	ME635-6 ME635G-6

FEATURES

- All stainless steel internal components
- Reduced size and weight for easier handling
- Self-locking toggle handle prevents accidental operation
- Durable ductile iron valve body with automotive grade powder coat finish
- Toggle handle and stem assembly rotate 360°
- Factory installed 1/4” FNPT plugged ports

BUILT & TESTED IN THE USA

HOSE END FILL ADAPTERS

These adapters are intended to be attached to the gas delivery truck hose outlets. They feature minimal flow restriction which allows for fast delivery while providing an integral check valve to prevent further product loss if the tank fill valve fails to close. In the event the tank fill valve should fail, leave the fill adapter connected to the fill valve and disconnect the filler hose end valve. Then place the filler valve cap onto the fill adapter. The tank fill valve should be repaired immediately.

To increase flow up to 30 percent over standard hose end filler adapters use the ME578 hose end fill adapter. It is a full-flow, manually operated hose end fill adapter where the user controls whether the valve is open or closed, providing maximum protection against product discharge.

BUILT & TESTED IN THE USA

ME570

FEATURES

- Integral breakaway feature in the event of truck roll away leaving check intact on tank
- ME570, ME572, ME574, ME578 shortest overall height in the industry allowing adapters to fit inside tank hood
- ME571 has a floating internal seat design which allows check to swivel freely when installed on hose end valve
- ME571H has same features as standard ME571 but with 30% MORE FLOW
- ME578 has a full-port design which allows for full flow
  - Removable shutoff key and key ring supplied
- Extended versions provide an additional 7" for use on underground tanks
  - Prevents pinching or cutting of the delivery hose on the protective tank collar
  - Eliminates dangerous extensions that do not incorporate the appropriate fill check device
  - Eliminates unsafe stacking of multiple fill check adapters to obtain the desirable fill connection height
  - Overall length allows adapter to fit inside protective tank collar
  - Optional heavy duty aluminum handle with a stainless steel 1-3/4" female Acme insert cast into the handle.

ME571

ME572

ME571H

ME574

ME578

c UL us

ME574EXT

Part No.	Filler Valve F. Acme Connection	Hose End M. Acme Connection	Handle Style	Handle Material	Swivels	Factory Installed Vent Valve	Extended Version OAL (2)	Additional Keys
ME570	1-3/4"	1-3/4"	Standard	Brass	No	No	–	–
ME571	1-3/4"	1-3/4"	Standard	Brass	Yes (1)	No	–	–
ME571H	1-3/4"	1-3/4"	Standard	Brass	Yes (1)	No	–	–
ME572	1-3/4"	1-3/4"	Standard	Brass	Yes	No	–	–
ME572EXT	1-3/4"	1-3/4"	Standard	Brass	Yes	No	7.789"	–
ME572EXTHD	1-3/4"	1-3/4"	Heavy Duty	Cast Aluminum	Yes	No	7.790"	–
ME574	1-3/4"	1-3/4"	Standard	Brass	Yes	Yes	–	–
ME574EXT	1-3/4"	1-3/4"	Standard	Brass	Yes	Yes	7.789"	–
ME574EXTHD	1-3/4"	1-3/4"	Heavy Duty	Cast Aluminum	Yes	Yes	7.790"	–
ME578	1-3/4"	1-3/4"	Standard	Brass	Yes	No	–	ME578-02
ME578C	1-3/4"	1-3/4"	Heavy Duty	Brass	Yes	No	–	ME578-02

(1) ME571 and ME571H allows the hose end valve to swivel while connected to the filler hose end adapter
(2) OAL includes free-spinning ACME caps

ME572EXTHD

EXCESS FLOW WARNING

An excess flow valve is a protective device to help control the discharge of product in the event of complete breakage of pipe lines or hose rupture. However, an excess flow valve can only offer limited protection from gas discharge, because it will only close under those conditions which cause the flow through the valve to exceed its rated closing flow, and even when closed it necessarily allows some "bleed" past the valve.

Excess flow check valves have helped minimize gas loss in many incidents involving breakage of hoses and transfer piping. Thus, they do provide a useful safety function in gas systems. However, there have also been transfer system accidents where excess flow valves have been ineffective in controlling gas loss due to a variety of conditions and to the inherent limitations of these valves. This bulletin explains the protection excess flow valves can offer, points out conditions which can interfere with that protection, and offers suggestions for effective excess flow valve installation.

If any of the following conditions are present, an excess flow valve is not designed to close and may not provide protection:

1. The piping system restrictions (due to pipe length, branches, reduction in pipe size, or number of other valves) decrease the flow rate to less than the valve's closing flow. (Valve should be selected by closing flow rating—not just by pipe size).
2. The break or damage to the downstream line is not large enough to allow enough flow to close the valve.
3. A shutoff valve in the line is only partially open and will not allow enough flow to close the excess flow valve.
4. Gas pressure upstream of the excess flow valve, particularly due to low temperature, is not high enough to produce a closing flow rate.
5. Foreign matter is lodged in the valve and prevents closing.
6. A build-up of process material may occur over a period of time causing the valve to stick open and prevent proper operation.
7. The piping break or damage occurs upstream of an in-line excess flow valve, so the escaping product is not passing through the valve.
8. The flow through the valve is in the wrong direction. (Excess flow valves only respond to flow in one direction.)
9. The excess flow valve has been damaged, or is otherwise not in operating condition.

Excess flow valves have numerous conditions where the valve may not operate correctly and should not be the sole means in the event a pipe is damaged and product needs to be controlled. It is recommended that another shutoff protection device be installed in addition to or instead of an excess flow valve to control the escape of product when a pipe is damaged.

Where excess flow valves are installed, they should be checked to see that:

1. They are installed in the correct direction—the arrow on the valve indicates the shutoff direction. (Excess flow valves only respond to flow in one direction.)
2. The flow rating on the valve is proper for the installation. The rating must be above the normal system flow, but no higher than necessary, to prevent "nuisance" closing in normal conditions. If the manufacturer's catalog information is not sufficient, the valve suppliers can provide sizing assistance.
3. To help avoid separating the upstream piping and valve, an in-line excess flow valve is installed to help pipe damage occur downstream.

When the excess flow valves can be examined separate from the line (before the installation or if removed for system maintenance), they should be checked to see that the parts are in good condition and that the poppet can be pushed fully closed.

Testing of Excess Flow Valves

In order to test an excess flow valve in a piping system, the flow through the valve must exceed the valve's closing rating. This test should only be attempted by trained personnel familiar with the process. If no one at the facility has experience in proper testing, outside expert help should be obtained. The exact procedure used may vary with the installation, gas discharge exposure, and availability of equipment.

In general, most testing makes use of the fact that excess flow valves are "surge sensitive" and will close quicker under a sudden flow surge than under steady flow. A sufficient surge can often be created by using a quick closing valve to control sudden, momentary flow into a tank or piping section containing very low pressure. An audible click from the excess flow valve (and corresponding stoppage of flow) indicates its closure.

A test involving venting gas to the atmosphere is hazardous and may be impractical or illegal.

Any test of any excess flow valve will not prove that the valve will close in an emergency situation, due to reasons cited before. This test will only check the valve's condition, and the flow rate sizing for those test conditions.

For additional information on excess flow valves contact your local distributor, Marshall Excelsior and refer to NFPA 58.

EXCELA-FLANGE™ EXCESS FLOW VALVES

MEC offers the largest closing flow selection in the industry. These excess flow valves are intended for use in liquid or vapor gas systems. These valves can be used for filling, withdrawal and vapor equalization in containers or line applications, specifically long lines or branch piping. This product is designed to protect against excessive discharge as a result of a break in the hose or piping system. The excess flow feature is designed to remain closed after activation until the system pressure equalizes on both sides of the shutoff poppet.

The ME883S-16 Series valves feature our new modular ***Excela-Flange™*** 4 bolt inlet flange design that can be easily adapted to both NPT thread or socket weld type B companion flanges ranging from 1-1/4" to 2" in diameter making it universal to piping sizes within this range. This innovative system allows installers the ability to eliminate unnecessary extra connections as well as possible leak points by integrating a convenient 4 bolt flange union at the valve inlet.

WARNING: An excess flow valve will not activate if there is a break or leak downstream of the valve that does not equal or exceed the closing flow of the valve or if the excess flow valve installed exceeds the flow capacity of the system. See the Excess Flow Warning page for more information regarding the use of excess flow devices.

FEATURES

- All models feature stainless steel stem, spring and valve guide
- Valve body: Ductile Iron / Shutoff poppet assy: zinc plated steel & stainless steel
- Available 2" NPT x 4 Bolt Type A Flange
- Available in a wide variety of closing flow rates - see chart below
- **2" models available with CF8M Stainless Steel body & bonnet**

ME883SS-16/105
SS 2" NPT x 4 Bolt Flange

ME883S-16/105
2" NPT x 4 Bolt Flange

Part No.*		Description	Closing Flow	Mating Flange Type	Weight (lbs.)	
Ductile Iron	CF8M Stainless Steel				Ductile	Stainless Steel
ME883S-10/42	—	1-1/4" MNPT x 4 Bolt Type A Flange Excess Flow	42	B	4.1	3.5
ME883S-16/80	**ME883SS-16/80**	2" MNPT x 4 Bolt Type A Flange Excess Flow	80		4.1	3.5
ME883S-16/105	**ME883SS-16/105**		105		4.23	4.0
ME883S-16/105	**ME883SS-16/105**		114		4.23	4.0
ME883S-16/140	**ME883SS-16/140**		140		4.23	4.0

Accessories		
Part No.		
Steel	CF8M Stainless Steel	Description
MEP873	—	4 Bolt Type A Flange Valve Installation Tool w/ 1" Square Drive
MEP873-102	—	Replacement Torque Posts
ME842-16-107	ME842SS-16-107	2" FNPT Tapped 4 Bolt Type B Flat Face Flange Adapter
ME843-16-107	ME843SS-16-107	2" Socket Weld 4 Bolt Type B Flat Face Flange Adapter

WARNING - Reducing outlet pipe size below nominal inlet diameter could result in excess flow feature failing to close as designed
Liquid Butane Capacity = Flow Rate x .94
Liquid Anhydrous Ammonia Capacity = Flow Rate x .90

BUILT & TESTED IN THE USA

MEP873

Throw away that pipe wrench for GOOD!

EXCESS FLOW VALVES

MEC offers the largest closing flow selection in the industry. These excess flow valves are intended for use in liquid or vapor gas systems. These valves can be used for filling, withdrawal and vapor equalization in containers or line applications, specifically long lines or branch piping. This product is designed to protect against excessive discharge as a result of a break in the hose or piping system. The excess flow feature is designed to remain closed after activation until the system pressure equalizes on both sides of the shutoff poppet.

NOTE: Intended for direct installation into pressure vessels and/or piping.

WARNING: An excess flow valve will not activate if there is a break or leak downstream of the valve that does not equal or exceed the closing flow of the valve or if the excess flow valve installed exceeds the flow capacity of the system. See the Excess Flow Warning page for more information regarding the use of excess flow devices.

FEATURES

- All stainless steel internal components
- Integral breakaway feature leaves valve assembly intact with internal hex broach for easy removal

ME880 Series

c UL us

ME880S Series

ME882S Series

Part No.			Inlet MNPT	Outlet FNPT	Closing Flow GPM Propane
Brass	Steel*	Stainless Steel*			
ME880-4/1.8	–	–	1/4"	1/4"	1.8
ME880-6/4.6	**ME880S-6/4.6**	**ME880SS-6/4.6**	3/4"	3/4"	4.6
ME880-6/14	**ME880S-6/14**	**ME880SS-6/14**	3/4"	3/4"	14
ME880-6/17	**ME880S-6/17**	**ME880SS-6/17**	3/4"	3/4"	17
ME880-6/22	**ME880S-6/22**	**ME880SS-6/22**	3/4"	3/4"	22
ME880-6/28	**ME880S-6/28**	**ME880SS-6/28**	3/4"	3/4"	28
ME880-10/32	**ME880S-10/32**	**ME880SS-10/32**	1-1/4"	1-1/4"	32
ME880-10/42	**ME880S-10/42**	**ME880SS-10/42**	1-1/4"	1-1/4"	42
ME880-12/95	–	–	1-1/2"	1-1/2"	95
ME880-16/80	**ME880S-16/80**	**ME880SS-16/80**	2"	2"	80
ME880-16/105	**ME880S-16/105**	**ME880SS-16/105**	2"	2"	105
ME880-16/114	**ME880S-16/114**	**ME880SS-16/114**	2"	2"	114
ME880-16/140	**ME880S-16/140**	**ME880SS-16/140**	2"	2"	140
–	**ME882S-16/80**	–	2"	2" MNPT	80
–	**ME882S-16/105**	–	2"	2" MNPT	105
–	**ME882S-16/114**	–	2"	2" MNPT	114
–	**ME882S-16/140**	–	2"	2" MNPT	140
–	**ME880S-24/265**	–	3"	3"	265
–	**ME880S-24/350**	–	3"	3"	350
–	**ME882S-24/265**	–	3"	3" MNPT/2" FNPT	265
–	**ME882S-24/350**	–	3"	3" MNPT/2" FNPT	350

WARNING - Reducing outlet pipe size below nominal inlet diameter could result in excess flow feature failing to close as designed

Liquid Butane Capacity = Flow Rate x .94
Liquid Anhydrous Ammonia Capacity = Flow Rate x .90

BUILT & TESTED IN THE USA

2”, 3” & 4” FULL INTERNAL FOR FLANGE MOUNTING IN CONTAINER SERVICE

Full internal excess flow valves are designed for service applications where the tank flange is constructed with internal NPT threads and not configured to accept an internal valve assembly. These valves can be utilized for liquid filling, withdrawal applications as well as vapor equalization. The high flow rate design ensures maximum transfer efficiency while minimizing pump cavitation.

If vapor riser piping is utilized in conjunction with these full internal excess flow valves to direct flow into the vessel vapor space, the riser pipe diameter must be a minimum of two times the valve thread connection size to ensure no restriction in flow through the side openings on the excess flow valve.

The full internal flange mounted configuration allows for easy serviceability by dropping the flange connection while completely enclosing the excess flow device within the flange for enhanced protection during a fire event. The full internal configuration also ensures that no piping loads or stresses are imposed onto the excess flow device as it is captured between the mating flanges joint.

ME3500-16 Series
2” MNPT

ME3500-32 Series
4” MNPT

ME3500-24 Series
3” MNPT

FEATURES

- Precision machined
- Generous flow channels provide low pressure drop, minimizing pump cavitation
- Cotter pin design prevent loss of spring retainer due to vibration in service
- All stainless steel construction

Part No.	Inlet Flange (NPT)	Effective Thread (Approx.)	Liquid Propane Approx. Closing Flow (GPM)	Installation Hex Tool	Tank Opening	Outside Diameter
ME3500-16/75	2”	3/4”	75	MEP200FIR	3-1/2”	6-1/2”
ME3500-16/125			125			
ME3500-16/150			150			
ME3500-24/150	3”	1”	150	MEP300FIR	4-1/2”	8-1/4”
ME3500-24/200			200			
ME3500-24/250			250			
ME3500-32/500	4”	1-1/16”	500	MEP3500	5-1/2”	10”

BUILT & TESTED IN THE USA

EXCESS FLOW VALVES

2” & 3” MNPT x MNPT - FOR CONTAINER SERVICE APPLICATIONS

Full internal/in-line excess flow valves are designed for container service applications where the tank is constructed with threaded full or half couplings. These valves can be utilized for liquid filling, withdrawal applications as well as vapor equalization. The high flow rate design ensures maximum transfer efficiency while minimizing pump cavitation.

If vapor riser piping is utilized in conjunction with these full internal excess flow valves to direct flow into the vessel vapor space, the riser pipe diameter must be a minimum of two times the valve thread connection size to ensure no restriction in flow through the side openings on the excess flow valve.

ME3600-16 Series
2” MNPT x 2” MNPT
(1-1/4” FNPT)

ME3600-24 Series
3” MNPT x 3” MNPT
(2” FNPT)

FEATURES

- All CF8M stainless steel construction
- Precision machined
- Generous flow channels provide low pressure drop, minimizing pump cavitation
- Cotter pin design prevent loss of spring retainer due to vibration in service

Part No.	Inlet Connection (MNPT)	Outlet Connection (NPT)	Wrench Flats	Liquid Propane Approx. Closing Flow (GPM)
ME3600-16/75	2” MNPT	2” MNPT & 1-1/4” FNPT	2.50” Hex	75
ME3600-16/125				125
ME3600-16/150				150
ME3600-24/150	3”MNPT	3” MNPT & 2” FNPT	3.75” Hex	150
ME3600-24/200				200
ME3600-24/250				250

BUILT & TESTED
IN THE USA

EXCELA-FLANGE™ HIGH FLOW BACK CHECK VALVES

The ME873S Series valves feature our new modular ***Excela-Flange***™ 4 bolt inlet flange design that can be easily adapted to both NPT thread or socket weld type B companion flanges ranging from 1-1/4" to 2" in diameter making it universal to piping sizes within this range. This innovative system allows installers the ability to eliminate unnecessary extra connections as well as possible leak points by integrating a convenient 4 bolt flange union at the valve inlet. Marshall Excelsior High Flow back check valves provide back flow protection to container openings or liquid lines where flow is intended for one direction. The valve is normally held closed until pressure activates the valve when flow is directed into piping or containers causing the back check to open. When flow stops or reverses, the check returns to the closed position. All MEC High Flow Back Check valves are supplied with o-ring soft seats, which can be removed for metal to metal seating. Also available with permanently bonded on main valve seals (SBN).

ME873S-24

ME873SBN -24
(SBN - BONDED SEAT)

ME873SS-16

FEATURES

- Universal seat - Remove O-ring seal to create metal to metal seating surface or (SBN) bonded seat
- Up to **20% MORE FLOW** than nearest competitor
- Maximum product flow achieved by full port and stem travel design
- All models feature stainless steel stem, spring and valve guide
- Valve body: Ductile Iron / Shutoff poppet assy: steel & stainless steel
- Available in 1-1/4" NPT, 2" NPT and 3" NPT x 4 Bolt Type A Flange
- Universal 4 bolt flange inlet type A
- **All models now available with CF8M Stainless Steel body & bonnet**

BUILT & TESTED IN THE USA

Part No. *		Description	Propane Flow @ 10 PSIG Pressure Differential	Mating Flange Type	Weight (lbs.)	
Ductile Iron	CF8M Stainless Steel				Standard	Stainless Steel
ME873S-10	**ME873SS-10**	1-1/4" MNPT x 4 Bolt Type A Flange BCV	61	B	4.1	3.5
ME873SBN-10	**ME873SSBN-10**	1-1/4" MNPT x 4 Bolt Type A Flange BCV (SBN) Bonded Seat				
ME873S-16	**ME873SS-16**	2" MNPT x 4 Bolt Type A Flange BCV	187	B	4.2	4.0
ME873SBN-16	**ME873SSBN-16**	2" MNPT x 4 Bolt Type A Flange BCV (SBN) Bonded Seat				
ME873S-24	**ME873SS-24**	3" MNPT x 4 Bolt Type A Flange BCV	449	B	7.0	7.0
ME873SBN-24	**ME873SSBN-24**	3" MNPT x 4 Bolt Type A Flange BCV (SBN) Bonded Seat			7.1	

* Replacements o-rings available upon request. See Replacement Parts section.

NOTE: Liquid Butane Capacity = Flow Rate x .94
Liquid Anhydrous Ammonia Capacity = Flow Rate x .90

HIGH FLOW BACK CHECK VALVES

These back check flow valves lead the industry with up to 20% More Flow than the nearest competitor. Back check valves provide flow protection to container openings or liquid lines where flow is intended for one direction. The valve is normally closed until pressure activates the valve when flow is directed into piping or containers causing the back check to open. When flow stops or reverses, the check returns to the closed position.

These valves come with dual seating capabilities or an optional bonded soft seat on 2 and 3" models. With the dual seating capabilities, the factory installed O-ring provides a leak-free, soft seat seal which enables repair and maintenance to be done on depressurized plumbing. Remove the O-ring to allow metal-to-metal seating with a minimal leak seal to restrict flow in case of a break in the line.

NOTE: Leaving the O-ring soft seat installed on the valve will require a minimum of 15 psig pressure differential between the transfer line and container to unseat the valve and allow it to fully open.

FEATURES

- Up to **20% More Flow** than nearest competitor
- Maximum flow achieved by full port and increased stem travel design
- Integral breakaway feature leaves valve assembly intact with internal hex broach for easy removal
- All stainless steel internal components
- Dual purpose seat reduces inventory from 2 to 1

ME870 Series
Shown with
O-Ring Soft Seat

ME870S Series
Shown with O-Ring
Removed for
Metal-to-Metal Seat

ME872S-16

c UL us

High Flow Back Check Valves					
Part No.			Inlet FNPT	Outlet MNPT	Propane Flow at 10 PSIG Pressure Differential
Brass	Steel	Stainless Steel			
ME870-6	**ME870S-6**	**ME870SS-6**	3/4"	3/4"	24
ME870-10	**ME870S-10**	**ME870SS-10**	1-1/4"	1-1/4"	61
ME870-12	–	–	1-1/2"	1/2"	112
ME870-16	**ME870S-16**	**ME870SS-16**	2"	2"	187
–	**ME872S-16**	–	2" MNPT	2"	187
–	**ME870S-24**	–	3"	3"	449
–	**ME872S-24**	–	2" FNPT/ 3" MNPT	3"	449
–	**ME872S-24SP** (1)	–	2" FNPT	3"	449

(1) Includes removable o-ring

ME870SBN-24
Shown with Bonded
Soft Seat

High Flow Back Check Valves w/ Bonded Soft Seat					
Part No.			Inlet FNPT	Outlet MNPT	Propane Flow at 10 PSIG Pressure Differential
Brass	Steel*	Stainless Steel*			
–	**ME870SBN-10**	–	1-1/4"	1-1/4"	61
–	**ME870SBN-16**	–	2"	2"	187
	ME872SBN-16	–	2" MNPT	2"	187
–	**ME870SBN-24** (1)	–	3"	3"	449
–	**ME872SBN-24**	–	2" FNPT/ 3" MNPT	3"	449
–	**ME872SBN-24SP**	–	2" FNPT	3"	449

(1) Use for high flow transport applications

Liquid Butane Capacity = Flow Rate x .94
Liquid Anhydrous Ammonia Capacity = Flow Rate x .90

BUILT & TESTED
IN THE USA

BACK PRESSURE CHECK VALVES

2” & 3” FULL INTERNAL FOR FLANGED INSTALLATION

Full internal back check valves are designed for liquid filling service applications where the tank flange is constructed with internal NPT threads and not configured to accept a traditional threaded back check valve assembly. The high flow rate design ensures maximum transfer efficiency while minimizing pump cavitation.

If vapor riser piping (Spray fill) is utilized in conjunction with these full internal back check valves to direct flow into the vessel vapor space, the riser pipe diameter must be a minimum of two times the valve thread connection size to ensure no restriction in flow through the side openings on the back check valve.

The full internal flange mounted configuration allows for easy serviceability by dropping the flange connection while completely enclosing the back check device within the flange for enhanced protection during a fire event. The full internal configuration also ensures that no piping loads or stresses are imposed onto the back check device as it is captured between the mating flanges joint.

BUILT & TESTED IN THE USA

ME3400-16
2” MNPT

ME3400-24
3” MNPT

FEATURES

- Precision machined
- Generous flow channels provide low pressure drop, minimizing pump cavitation
- All CF8M stainless steel construction ensures long service life
- Speeds up filling operations in bulk plant operations

Part No.	Flange Connection (MNPT)	Liquid Propane Flow Differential Pressure (GPM)		Overall Length	Threaded End to Port	Installation Hex Tool	Weight (lbs)
		5 PSIG	10 PSIG				
ME3400-16	2”	224	326	5-1/8”	1-3/4”	MEP200FIR	1.8
ME3400-24	3”	460	650	5-1/2”	1-13/32”	MEP300FIR	3.6

EXCELA-FLANGE™ HIGH FLOW BACK CHECK VALVES
SOCKET WELD STYLE

These ***Excela-Flange***™ High Flow Socket Weld Back Check valves lead the industry with up to 20% More Flow than the nearest competitor. Back check valves provide flow protection to container openings or liquid lines where flow is intended for one direction. The valve is normally closed until pressure activates the valve when flow is directed into piping or containers causing the back check to open. When flow stops or reverses, the check returns to the closed position.

Featuring socket weld connection points, these valves are ideally suited for inline applications where welded piping construction is desired, such as in a bobtail spray fill / bypass return combination line. A perfect companion to the MEC ***Excela-Flange***™ product line. Only available with metal-to-metal seat due to high heat associated with socket weld construction/installation.

FEATURES

- Up to 20% More Flow than nearest competitor
- Maximum flow achieved by full port and increased stem travel design
- Integral breakaway feature leaves valve assembly intact
- All stainless steel internal components
- High temperature Inconel spring withstands heat from welding

ME870SW-16

Part No.		Inlet Socket Weld	Outlet Socket Weld	Propane Flow @ 10 PSIG Pressure Differential	Weight (lbs.)
WCC A216 Steel	CF8M Stainless Steel				
ME870SW-16	**ME870SSW-16**	2" Female	2" Male	189	1.77
NOTE: Rated for LP-Gas & NH_3					

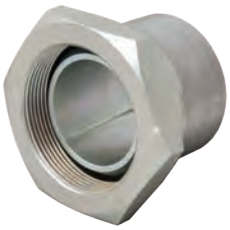
Liquid Butane Capacity = Flow Rate x .94
Liquid Anhydrous Ammonia Capacity = Flow Rate x .90

WELDABLE NPT SWIVEL CONNECTOR JOINTS

The ME691 and ME693 series weldable NPT swivel joints are intended for use anywhere that welded piping is desired but NPT threaded flex lines must be installed to protect against vibration and/or fixed piping metal fatigue. The weld end features a unique butt weld/socket weld end that is universal for either connection type. The NPT end features a crimped female swivel with a tapered internal seat ideal for sealing on all standard male NPT flex line connectors. These connectors are ideal for both mobile and stationary applications such as pump inlet/outlet, meter inlet, or hose reel inlet piping transitions.

FEATURES

- Compact high grade plated steel construction
- Universal butt weld/socket weld end connection
- Universal tapered FNPT seat design
- Ready to weld without surface preparation



ME691-16

ME691-12

ME693-16/12

Part No.		Description	Butt/Socket Weld	FNPT Swivel
WCC A216 Steel	CF8M Stainless Steel			
ME691-12	**ME691SS-12**	Swivel Connector Joint	1-1/2"	1-1/2"
ME693-16/12	**ME693SS-16/12**		2"	1-1/2"
ME691-16	**ME691SS-16**		2"	2"

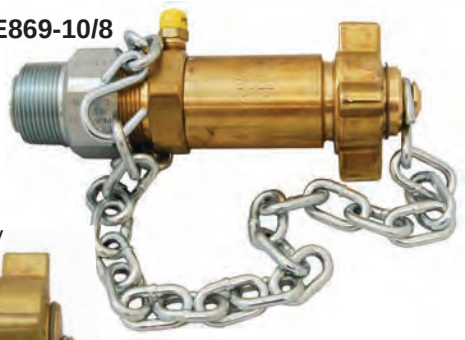
BUILT & TESTED
IN THE USA

HIGH FLOW DOUBLE BACK CHECK FILL VALVES

MEC High Flow Double Back Check Valves provide back flow protection to container openings or liquid lines where flow is intended in one direction. The valve is normally held closed until pressure activates the valve when flow is directed into piping or containers causing the double back check to open. When flow stops or reverses, both checks return to the closed position. All MEC High Flow Double Back Check Valves are supplied with the correct ACME cap and chain assembly, as well as factory installed hydrostatic relief protection.

FEATURES

- Primary Seat - Creates metal to metal seating surface
- Secondary Seat - bonded nitrile soft seat for a leak free seal
- Up to **20% More Flow** than nearest competitor
- Maximum product flow achieved by full port and stem travel design
- All models feature stainless steel stem, spring and valve guide in body check assembly
- Built in hydrostatic relief valve



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Part No.	Description	Propane Flow Differential Pressure		
		10 PSI	25 PSI	50 PSI
ME869-10/10	Double Back Check Valve 1-1/4" MNPT x 2-1/4" M. Acme	75	116	157
ME869-16	Double Back Check Valve 2" MNPT x 3-1/4" M. Acme	195	296	416
ME869-24	Double Back Check Valve 3" MNPT x 3-1/4" M. Acme	347	519	718

BUILT & TESTED IN THE USA

HIGH FLOW SINGLE & DOUBLE BACK CHECK FILL VALVES

MEC high flow single & double back check fill valves provide back flow protection to container openings or liquid lines where flow is intended in one direction. The valve is normally held closed until pressure activates the valve when flow is directed into piping or containers causing the back check to open. When flow stops or reverses, the check returns to the closed position. All MEC High Flow Back Check Valves are supplied with the correct ACME cap and chain assembly.

FEATURES

- Double check primary seat creates metal to metal seating surface
- Double check secondary seat is a soft seat for a leak free seal
- Up to **30% MORE FLOW** than nearest competitor
- Maximum product flow achieved by full port and maximum stem travel design
- All models feature a brass stem, stainless steel spring and bronze valve guide in body check assembly

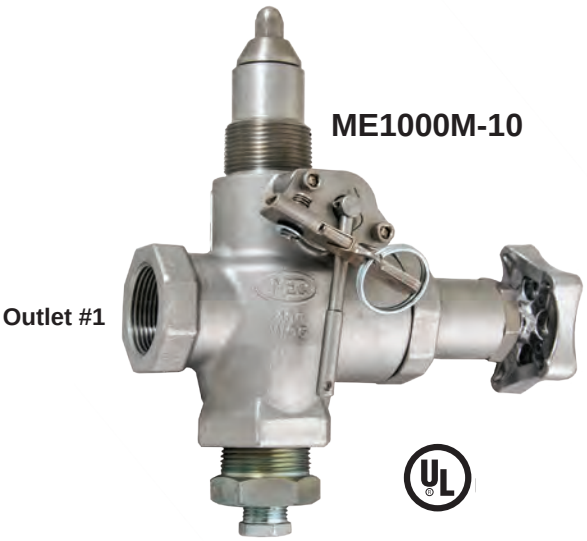
Part No.	Description	Differential Flow GPM/ LPG @ 10 PSI
ME3194C	Single Back Check Fill Valve 3-1/4" M. Acme x 3" MNPT	365
ME3197C	Double Back Check Fill Valve 3-1/4" M. Acme x 3" MNPT	285

BUILT & TESTED IN THE USA

EXCELERATOR™ 1-1/4" INTERNAL COMBINATION VALVE

The **ME1000 Series Internal Combination Valve** is uniquely designed to incorporate the full functionality of the primary internal control valve and excess flow protection, followed by a fully integrated positive shut-off downstream valve section, plus incorporation of the stainless steel filter element section of a traditional Y-Strainer, all packed neatly into one compact unit. This all leads to a combination construction with reduced connection joints, leak points and overall weight, perfectly suited for liquid or vapor withdrawal in dispenser and nurse tank applications along with emergency liquid withdrawal on stationary and mobile tanks, among many other applications for this universal valve series. The ME1000 series features a range of excess flow closing springs and the universal tee body design ships complete with the bottom port factory plugged, allowing for plumbing configurations in tight clearance areas.

The ME1000 Series is also designed to utilize the standard ME990 Series internal valve packing glands for ease of serviceability.



FEATURES

- Durable 316 CF8M stainless steel cast body
- All stainless internal component construction
- 1-1/4" MNPT internal valve inlet connection with 2 outlets
- 1/4" NPT plugged auxiliary port
- Standard 40 mesh strainer screen factory installed
- Large variety of excess flow closing values
- Factory installed plug (bottom outlet)
- Industry's fastest bleed time
- Removable data plate
- Less weight (9.6 lbs vs. approximitely 20 lbs)
- Fewer leak points
- Standard construction utilizes Nitrile seals
- Also available with FKM seals
- Rulon™ bearing on stub shaft
- Integrated shutoff valve pilot feature

Part No. (1)	Inlet	Outlet #1	Outlet #2	Optional Liquid Closing Flow Values (2)	Latch/ Actuator Type	Accessories
ME1000-10-A/"X"	1-1/4" MNPT	1" FNPT	1" FNPT	"X" 40 GPM 55 GPM 70 GPM	–	ME1000F-101-20 20 mesh strainer screen ME1000F-101-80 80 mesh strainer screen ME1000F-101-100 100 mesh strainer screen NOTE: 40 mesh replacement also available - see replacement parts section
ME1000A-10-A/"X"					Pneumatic	
ME1000AR-10-A/"X"					Rotary	
ME1000M-10-A/"X"					Manual Latch	
ME1000-10-B/"X"		1" FNPT	1-1/4" FNPT		–	
ME1000A-10-B/"X"					Pneumatic	
ME1000AR-10-A/"X"					Rotary	
ME1000M-10-B/"X"					Manual Latch	
ME1000-10-C/"X"		1-1/4" FNPT	1" FNPT	"X" 45 GPM 55 GPM 85 GPM	–	
ME1000A-10-C/"X"					Pneumatic	
ME1000AR-10-C/"X"					Rotary	
ME1000M-10-C/"X"					Manual Latch	
ME1000-10-D/"X"		1-1/4" FNPT	1-1/4" FNPT		–	
ME1000A-10-D/"X"					Pneumatic	
ME1000AR-10-D/"X"					Rotary	
ME1000M-10-D/"X"					Manual Latch	

(1) Indicate desired excess flow closing value when ordering - see chart for values - i.e. ME1000-10-A/55 (55 GPM)
(2) For NH_3 multiply GPM by .90
Note: To order FKM add "V" after the prefix part number i.e. ME1000V-10-A/85

BUILT & TESTED IN THE USA

EXCELERATOR™ INTERNAL VALVES

1-1/4” THREADED

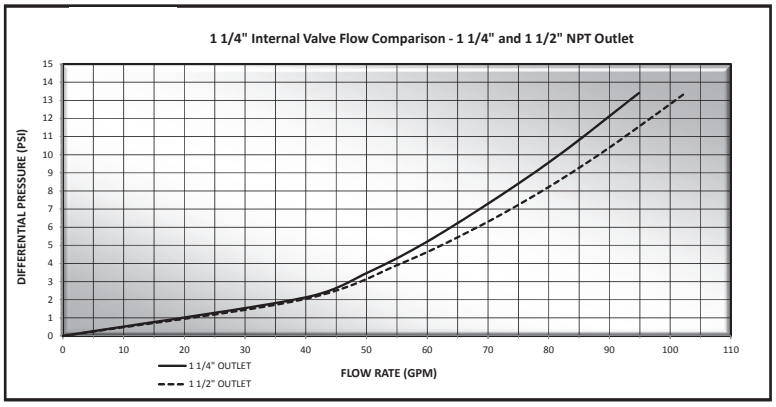
Intended for use on bobtail trucks and storage tanks with 1-1/4” threaded connections in directional or bi-directional flow applications. Provides both manual shut-down as well as excess flow closing in the event of the piping being separated from the valve. Can be equipped with manual latch, pneumatic or rotary actuator, open/ closing devices. All valve models are equipped with a break-away feature in the cast body which permits the piping to shear off in the event of side impact, leaving the valve poppet intact and protecting the tank from catastrophic product loss.

FOR LIQUID OR VAPOR SERVICE APPLICATIONS.

FEATURES

- Durable 316 CF8M stainless steel cast body
- All stainless internal component construction
- Hexagonal installation flats to fit standard 2-3/8” hex socket wrench
- Precision machined hard coated stem
- Fully retained Nitrile seat disc
- Large variety of excess flow closing values
- Roller cam actuation
- Industry’s fastest bleed time
- Removable data plate
- Industry’s easiest valve to service
- Standard construction utilizes Nitrile seals
- Also available with FKM or FFKM seals
- Rulon™ bearing on stub shaft

ME990-10 Series



“X”	1-1/4” Valve Liquid Closing Flow Values
35	35 GPM LPG Closing Flow
55	55 GPM LPG Closing Flow
85	85 GPM LPG Closing Flow

NOTE: For NH_3 multiply GPM by .90

BUILT & TESTED IN THE USA

Part No.(1)	Description
ME990-10-”X”	1-1/4” MNPT x 1-1/4” FNPT Internal Valve
ME990-10/12-”X”	1-1/4” MNPT x 1-1/2” FNPT Internal Valve
ME990A-10-”X”	1-1/4” MNPT x 1-1/4” FNPT Internal Valve - with Pnuematic Actuator
ME990A-10/12-”X”	1-1/4” MNPT x 1-1/2” FNPT Internal Valve - with Pnuematic Actuator
ME990AR-10-”X”	1-1/4” MNPT x 1-1/4” FNPT Internal Valve - with Rotary Actuator
ME990AR-10/12-”X”	1-1/4” MNPT x 1-1/2” FNPT Internal Valve - with Rotary Actuator
ME990M-10-”X”	1-1/4” MNPT x 1-1/4” FNPT Internal Valve - with Manual Latch
ME990M-10/12-”X”	1-1/4” MNPT x 1-1/2” FNPT Internal Valve - with Manual Latch

(1) Indicate desired excess flow closing value when ordering - see chart for values - i.e. ME990-10-85 (85 GPM)
To order FFKM add “K” after the prefix part number i.e. ME990K-10-85
To order FKM add “V” after the prefix part number i.e. ME990V-10-85

EXCELA-FLANGE™ INTERNAL VALVES

1-1/4" MNPT x 4 BOLT FLANGE

The ME991-10 Series valves feature our new modular ***Excela-Flange***™ 4 bolt outlet flange design that can be easily adapted to both NTP thread or socket weld type B companion flanges (ME842 & ME843 Series) ranging from 1-1/4" to 2" in diameter making it universal to piping sizes within this range. This innovative system allows installers the ability to eliminate unnecessary connections as well as possible leak points by integrating a convenient 4 bolt flange union at the valve outlet. Intended for use on bobtail trucks and storage tanks with 1-1/4" threaded connections in directional or bi-directional flow applications. Provides both manual shut-down as well as excess flow closing in the event of the piping being separated from the valve. Can be equipped with manual latch, pneumatic or rotary actuator, open/ closing devices. All valve models are equipped with a break-away feature in the cast body which permits the piping to shear off in the event of side impact, leaving the valve poppet intact and protecting the tank from catastrophic product loss. FOR LIQUID OR VAPOR SERVICE APPLICATIONS.

NOTE: See pages 72-74 for flanged deminsions and installation torque values.

FEATURES

- Durable 316 CF8M stainless steel cast body
- All stainless internal component construction
- Precision machined hard coated stem
- Fully retained nitrile seat disc
- Large variety of excess flow closing values
- Roller cam actuation
- Industry's fastest bleed time
- Removable data plate
- Industry's easiest valve to service
- Standard construction utilizes nitrile seals
- Also available with FKM or FFKM seals
- Rulon™ bearing on stub shaft
- 4 Bolt universal outlet flange for built in union joint

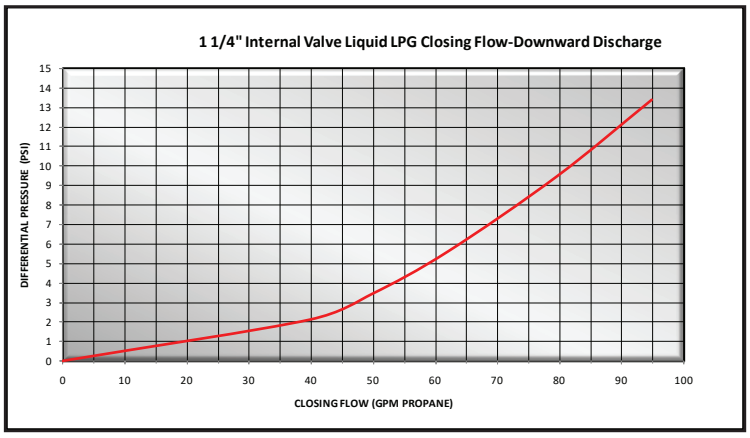
ME991-10 Series
1-1/4" MNPT x 4 Bolt Type A
Flanged Internal Valve

"X"	1-1/4" Valve Liquid Closing Flow Values
35	35 GPM LPG Closing Flow
55	55 GPM LPG Closing Flow
85	85 GPM LPG Closing Flow

NOTE: For NH_3 multiply GPM by .90

Part No. (1)	Description	Mating Flange Type	Weight (lbs.)
ME991-10-"X"	***Excela-Flange***™ 1-1/4" MNPT x 4 Bolt Type A Flange Internal Valve - Only	B	5.7
ME991A-10-"X"	***Excela-Flange***™ 1-1/4" MNPT x 4 Bolt Type A Flange Internal Valve - w/Pneumatic Actuator	B	9.5
ME991AR-10-"X"	***Excela-Flange***™ 1-1/4" MNPT x 4 Bolt Type A Flange Internal Valve - w/Rotary Actuator	B	10.2
ME991M-10-"X"	***Excela-Flange***™ 1-1/4" MNPT x 4 Bolt Type A Flange Internal Valve - w/Manual Latch	B	5.7

(1) Indicate desired excess flow closing value when ordering - see chart for values - i.e. ME991-10-85 (85 GPM)
To order FFKM add "K" for after the prefix part number i.e. ME991K-10-35
To order FKM add "V" after the prefix part number i.e. ME991V-10-35



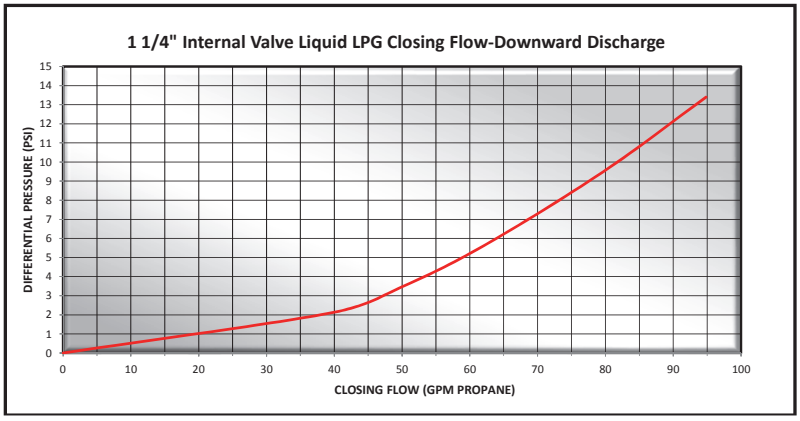
BUILT & TESTED
IN THE USA

EXCELERATOR™ INTERNAL VALVES

1-1/4” THREADED TEE BODY

Intended for use on bobtail trucks and storage tanks with 1-1/4” threaded connections in directional or bi-directional flow applications. Provides both manual shut-down as well as excess flow closing in the event of the piping being seperated from the valve. Can be equipped with manual latch, pneumatic or rotary actuator, open/ closing devices. All valve models are equipped with a break-away feature in the cast body which permits the piping to shear off in the event of side impact, leaving the valve poppet intact and protecting the tank from catastrophic product loss. The tee body features an additional FNPT side discharge port .

FOR LIQUID OR VAPOR SERVICE APPLICATIONS.



ME992-10 Series
1-1/4” NTP Tee Body Internal Valve

FEATURES

- Durable 316 CF8M stainless steel cast body
- All stainless internal component construction
- Precision machined hard coated stem
- Fully retained nitrile seat disc
- Large variety of excess flow closing values
- Roller cam actuation
- Industry’s fastest bleed time
- Removable data plate
- Industry’s easiest valve to service
- Standard construction utilizes nitrile seals
- Available with Neoprene, FKM, or FFKM seals
- Rulon™ bearings on stem and stub shafts

“X”	1-1/4” Valve Liquid Closing Flow Values
35	35 GPM LPG Closing Flow
55	55 GPM LPG Closing Flow
85	85 GPM LPG Closing Flow

NOTE: For NH_3 multiply GPM by .90

BUILT & TESTED
IN THE USA

MEC ***Excelerator***™ 1-1/4” Threaded Tee Body Internal Valves	
Part No.(1)	Description
ME992-10-”X”	***Excelerator***™ 1-1/4” MNPT x 1-1/4” FNPT Internal Valve - Only
ME992A-10-”X”	***Excelerator***™ 1-1/4” MNPT x 1-1/4” FNPT Internal Valve - with Pneumatic Actuator
ME992AR-10-”X”	***Excelerator***™ 1-1/4” MNPT x 1-1/4” FNPT Internal Valve - with Rotary Actuator
ME992M-10-”X”	***Excelerator***™ 1-1/4” MNPT x 1-1/4” FNPT Internal Valve - with Manual Latch

* Indicate desired excess flow closing value when ordering - see chart for values- i.e. ME992-10-85 (85 GPM)
To order FFKM add “K” after the prefix part number i.e. ME992K-10-85
To order Neoprene add “N” for Neoprene after the prefix part number i.e. ME992N-10-85
To order FKM add “V” after the prefix part number i.e. ME992V-10-85

EXCELERATOR™ INTERNAL VALVES

1-1/2” THREADED TEE BODY

Intended for use on bobtail trucks, storage tanks and nurse wagons with 1-1/2” threaded connections in directional or bi-directional flow applications. Provides both manual shut-down as well as excess flow closing in the event of the piping being seperated from the valve. Can be equipped with manual latch, pneumatic or rotary actuator, open/ closing devices. All valve models are equipped with a break-away feature in the cast body which permits the piping to shear off in the event of side impact, leaving the valve poppet intact and protecting the tank from catastrophic product loss. The tee body features an additional FNPT side discharge port.

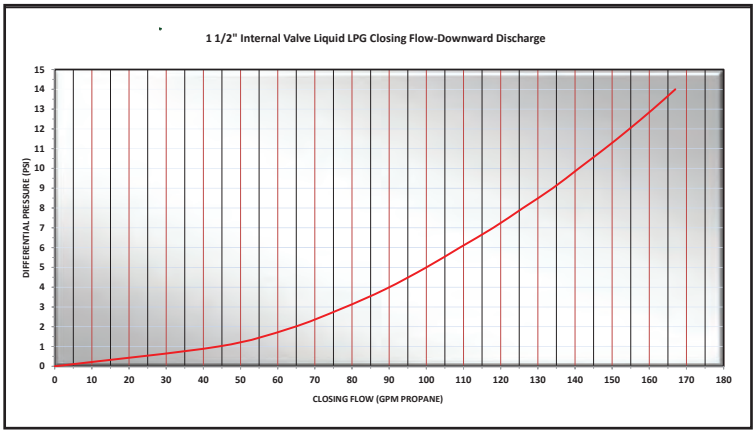
FOR LIQUID OR VAPOR SERVICE APPLICATIONS.

FEATURES

- Durable ductile iron body
- All stainless internal component construction
- Precision machined hard coated stem
- Fully retained nitrile seat disc
- Large variety of excess flow closing values
- Roller cam actuation
- Industry’s fastest bleed time
- Removable data plate
- Industry’s easiest valve to service
- Standard construction utilizes nitrile seals
- Also available with FKM or FFKM seals
- Rulon™ bearing on stub shaft
- Supplied with hex socket 1-1/2” port plug for single discharge applications

ME992-12 Series

1-1/2” NTP Tee Body Internal Valve



“X”	1-1/2” Valve Liquid Closing Flow Values
50	50 GPM LPG Closing Flow
65	65 GPM LPG Closing Flow
85	85 GPM LPG Closing Flow
110	110 GPM LPG Closing Flow
120	125 GPM LPG Closing Flow

NOTE: For NH_3 multiply GPM by .90

Part No. (1)	Description
ME992-12-”X”	***Excelerator***™ 1-1/2” MNPT x 1-1/2” FNPT Internal Valve - Only
ME992A-12-”X”	***Excelerator***™ 1-1/2” MNPT x 1-1/2” FNPT Internal Valve - with Pneumatic Actuator
ME992AR-12-”X”	***Excelerator***™ 1-1/2” MNPT x 1-1/2” FNPT Internal Valve - with Rotary Actuator
ME992M-12-”X”	***Excelerator***™ 1-1/2” MNPT x 1-1/2” FNPT Internal Valve - with Manual Latch

(1) Indicate desired excess flow closing value when ordering - see chart for values i.e. ME992-12-85 (85 GPM)
To order FFKM add “K” after the prefix part number i.e. ME992K-12-85
To order FKM add “V” after the prefix part number i.e. ME992V-12-85

BUILT & TESTED
IN THE USA

2” & 3” THREADED

Intended for use on transport trucks and large storage tanks with 2” or 3” threaded connections in directional or bi-directional flow applications. Provides both manual shut-down and excess flow closing in the event of the piping being separated from the valve. Can be equipped with manual latch, pneumatic or rotary actuator open/ closing devices. All valve models are equipped with a break-away feature in the cast body which permits the piping to shear off in the event of side impact, leaving the valve poppet intact and protecting the tank from catastrophic product loss.

FOR LIQUID OR VAPOR SERVICE APPLICATIONS

FEATURES

- Durable ductile body with cadmium surface plating
- All stainless internal component construction
- One piece threaded packing gland
- Precision machined hard coated stem
- Fully retained Nitrile seat disc
- Largest variety of excess flow closing values
- Roller cam actuation
- Industry’s fastest bleed time
- Removable data plate
- Industry’s easiest valve to service
- Standard construction utilizes Nitrile seals
- Available with PTFE, FKM, or FFKM seals
- Rulon™ bearings on stem and stub shafts

ME990-16 Series
2” NPT Threaded
Internal Valve

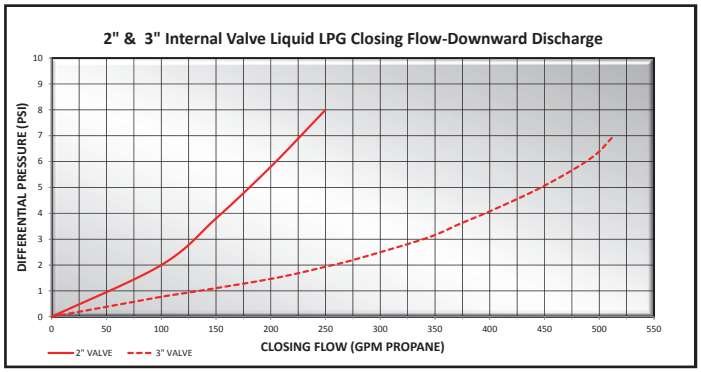
ME990-24 Series
3” NPT Threaded Internal Valve

BUILT & TESTED IN THE USA

“X”	2” Valve Liquid Closing Flow Values
110	110 GPM LPG Closing Flow
160	160 GPM LPG Closing Flow
260	260 GPM LPG Closing Flow

“X”	3” Valve Liquid Closing Flow Values
175	175 GPM LPG Closing Flow
250	250 GPM LPG Closing Flow
300	300 GPM LPG Closing Flow
375	375 GPM LPG Closing Flow
400	400 GPM LPG Closing Flow
475	475 GPM LPG Closing Flow
500	500 GPM LPG Closing Flow

NOTE: For NH_3 multiply GPM by .90



Part No.(1)		Description	Accessories
Ductile Iron	CF8M Stainless Steel		Bell Housing
ME990-16-”X”	**ME990SS-16-”X”**	***Excelerator***™ 2” MNPT x 2” FNPT Internal Valve	MEP889-16
ME990A-16-”X”	**—**	***Excelerator***™ 2” MNPT x 2” FNPT Internal Valve - with Pneumatic Actuator	
ME990AR-16-”X”	**—**	***Excelerator***™ 2” MNPT x 2” FNPT Internal Valve - with Rotary Actuator	
ME990M-16-”X”	**—**	***Excelerator***™ 2” MNPT x 2” FNPT Internal Valve - with Manual Latch	
ME990-24-”X”	**ME990SS-24-”X”**	***Excelerator***™ 3” MNPT x 3” FNPT Internal Valve	MEP889-24
ME990A-24-”X”	**—**	***Excelerator***™ 3” MNPT x 3” FNPT Internal Valve - with Pneumatic Actuator	
ME990AR-24-”X”	**—**	***Excelerator***™ 3” MNPT x 3” FNPT Internal Valve - with Rotary Actuator	
ME990M-24-”X”	**—**	***Excelerator***™ 3” MNPT x 3” FNPT Internal Valve - with Manual Latch	

*Note: Indicate desired excess flow closing value when ordering - see chart for values i.e. ME990-24-250 (250 GPM)
To order PTFE add “T” after the prefix part number i.e. ME990T-24-250
To order FFKM add “K” after the prefix part number i.e. ME990K-24-250
To order FKM add “V” after the prefix part number i.e. ME990V-24-250

EXCELERATOR™ INTERNAL VALVES

2” - 300 LB SINGLE AND DOUBLE FLANGED

Intended for use on bobtail delivery trucks, transport trucks and large storage tanks with 2” flanged connections in directional or bi-directional flow applications. Provides both manual shut-down and excess flow closing in the event of the piping being separated from the valve. Can be equipped with manual latch, pneumatic or rotary actuator open/ closing devices. All valve models are equipped with a break-away feature in the cast body which permits the pump or piping to shear off in the event of side impact, leaving the valve poppet intact and protecting the tank from catastrophic product loss.
FOR LIQUID OR VAPOR SERVICE APPLICATIONS.

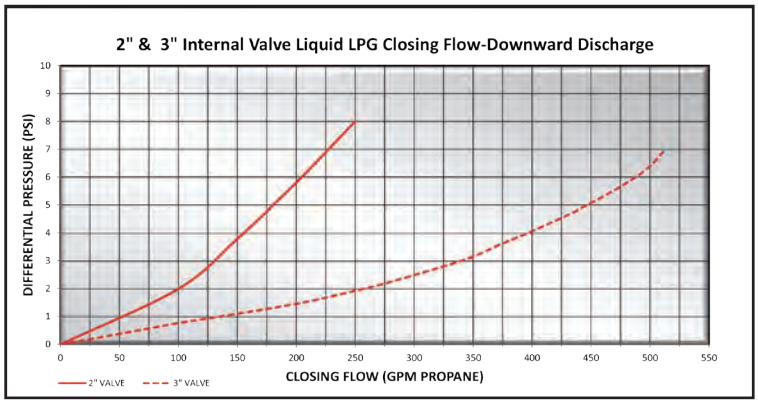
NOTE: See pages 72-74 for flanged deminsions and installation torque values.

FEATURES

- Durable steel body with cadmium surface plating
- All stainless internal component construction
- One piece threaded packing gland
- Precision machined hard coated stem & stem guide
- Fully retained Nitrile seat disc
- Largest variety of excess flow closing values
- Corrosion resistant sleeved flange bolt holes
- Xylan coated corrosion resistant mounting studs
- Roller cam actuation
- Industry’s fastest bleed time
- Removable data plate
- Industry’s easiest valve to service
- Standard construction utilizes Nitrile seals
- Available with PTFE, FKM, or FFKM seals
- Available with 316 Stainless Steel bodies
- Rulon™ bearings on stem and stub shafts

ME990S-2F-16 Series
2”-300LB x 2” FNPT

ME990S-2DFM Series
2”-300LB Double
Flanged Internal Valve



X	2” Valve Liquid Closing Flow Values
110	110 GPM LPG Closing Flow
160	160 GPM LPG Closing Flow
260	260 GPM LPG Closing Flow

NOTE: For NH_3 multiply GPM by .90

Part No. (1)		Description
WCC A216 Steel	CF8M Stainless Steel	
ME990S-2F-16-”X”	**ME990SS-2F-16-”X”**	2”-300 lb. Modified Single Flange x 2” FNPT Internal Valve
ME990SA-2F-16-”X”	–	2”-300 lb. Modified Single Flange x 2” FNPT Internal Valve - with Pneumatic Actuator
ME990SAR-2F-16-”X”	–	2”-300 lb. Modified Single Flange x 2” FNPT Internal Valve - with Rotary Actuator
ME990S-2DFM-”X”	**ME990SS-2DFM-”X”**	2”-300 lb. Modified Double Flange Internal Valve
ME990SA-2DFM-”X”	–	2”-300 lb. Modified Double Flange Internal Valve - with Pneumatic Actuator
ME990SAR-2DFM-”X”	–	2”-300 lb. Modified Double Flange Internal Valve - with Rotary Actuator

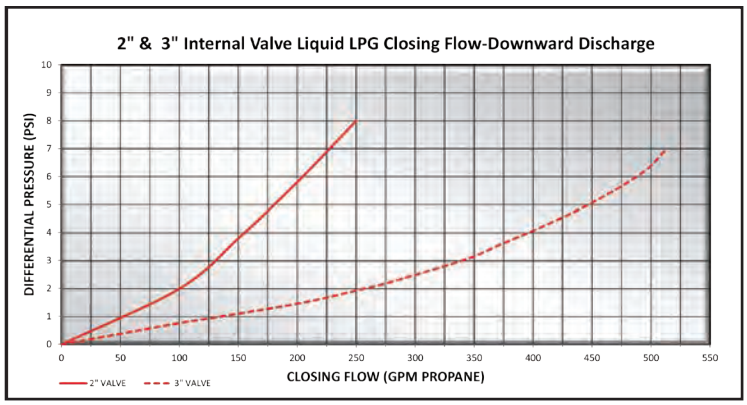
(1) Indicate desired excess flow closing value when ordering - see chart for values i.e. ME990S-2F-16-260 (260 GPM)
To order PTFE add “T” after the prefix part number i.e. ME990ST-2F-16-260
To order FFKM add “K” after the prefix part number i.e. ME990SK-2F-16-260
To order FKM add “V” after the prefix part number i.e. ME990SV-2F-16-260

BUILT & TESTED
IN THE USA

2” & 3” MNPT x 300 LB FLANGED

Intended for use on transport trucks and large storage tanks with 2” or 3” threaded connections in directional or bi-directional flow applications. The ME991-16 & ME991-24 Series feature standard 300# outlet flanges for fast reliable piping connections downstream of the tank. Ideally suited for existing tanks with NPT threaded couplings but downstream welded piping is desirable. Provides both manual shut-down and excess flow closing in the event of the piping being separated from the valve. Can be equipped with manual latch, pneumatic or rotary actuator open/ closing devices. All valve models are equipped with a break-away feature in the cast body which permits the piping to shear off in the event of side impact, leaving the valve poppet intact and protecting the tank from catastrophic product loss.
FOR LIQUID OR VAPOR SERVICE APPLICATIONS.

NOTE: See pages 72-74 for flanged deminsions and installation torque values.



FEATURES

- Durable ductile body with cadmium surface plating
- All stainless internal component construction
- One piece threaded packing gland
- Precision machined hard coated stem
- Fully retained nitrile seat disc
- Largest variety of excess flow closing values
- Roller cam actuation
- Industry’s fastest bleed time
- Removable data plate
- Industry’s easiest valve to service
- Standard construction utilizes nitrile seals
- Available with PTFE, FKM, or FFKM seals
- Rulon$_{TM}$ bearings on stem and stub shafts Rulon$_{TM}$
- Xylan coated corrosion resistant mounting studs & gaskets included

BUILT & TESTED IN THE USA

“X”	2” Valve Liquid Closing Flow Values
110	110 GPM LPG Closing Flow
160	160 GPM LPG Closing Flow
260	260 GPM LPG Closing Flow

“X”	3” Valve Liquid Closing Flow Values
175	175 GPM LPG Closing Flow
250	250 GPM LPG Closing Flow
300	300 GPM LPG Closing Flow
375	375 GPM LPG Closing Flow
475	475 GPM LPG Closing Flow
500	500 GPM LPG Closing Flow

NOTE: For NH_3 multiply GPM by .90

Part No.(1)		Description
Ductile Iron	CF8M Stainless Steel	
ME991-16-”X”	**ME991SS-16-”X”**	2” MNPT x 2”-300# Flange Internal Valve
ME991A-16-”X”	–	2” MNPT x 2”-300# Flange Internal Valve - with Pneumatic Actuator
ME991AR-16-”X”	–	2” MNPT x 2”-300# Flange Internal Valve - with Rotary Actuator
ME991M-16-”X”	–	2” MNPT x 2”-300# Flange Internal Valve - with Manual Latch
ME991-24-”X”	**ME991SS-24-”X”**	3” MNPT x 3”-300# Flange Internal Valve
ME991A-24-”X”	–	3” MNPT x 3”-300# Flange Internal Valve - with Pneumatic Actuator
ME991AR-24-”X”	–	3” MNPT x 3”-300# Flange Internal Valve - with Rotary Actuator
ME991M-24-”X”	–	3” MNPT x 3”-300# Flange Internal Valve - with Manual Latch

* Indicate desired excess flow closing value when ordering - see chart for values - i.e. ME991-24-250 (250 GPM)
To order PTFE add “T” after the prefix part number i.e. ME991T-16-260
To order FFKM add “K” after the prefix part number i.e. ME991K-16-260
To order FKM add “V” after the prefix part number i.e. ME991V-16-260

EXCELERATOR™ INTERNAL VALVES

2” & 3” THREADED TEE BODY

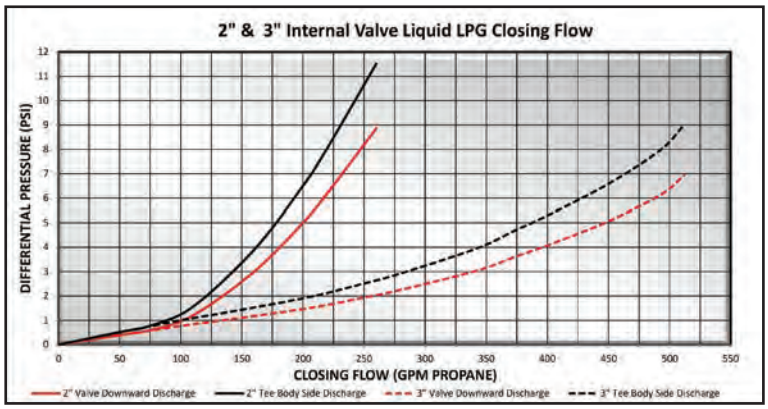
Intended for use on transport trucks and large storage tanks with 2” or 3” threaded connections in directional or bi-directional flow applications. Provides both manual shut-down and excess flow closing in the event of the piping being seperated from the valve. Can be equipped with manual latch, pneumatic or rotary actuator open/ closing devices. All valve models are equipped with a break-away feature in the cast body which permits the piping to shear off in the event of side impact, leaving the valve poppet intact and protecting the tank from catastrophic product loss. The tee body features an additional FNPT side discharge port.

FOR LIQUID OR VAPOR SERVICE APPLICATIONS.

FEATURES

- Durable ductile body with cadmium surface plating
- All stainless internal component construction
- One piece threaded packing gland
- Precision machined hard coated stem
- Fully retained nitrile seat disc
- Largest variety of excess flow closing values
- Roller cam actuation
- Industry’s fastest bleed time
- Removable data plate
- Industry’s easiest valve to service
- Standard construction utilizes nitrile seals
- Available with PTFE, FKM, or FFKM seals
- Rulon™ bearings on stem and stub shafts

ME992M-16 Series
2” NTP Tee Body Internal Valve w/ Manual Latch



“X”	2” Valve Liquid Closing Flow Values
110	110 GPM LPG Closing Flow
160	160 GPM LPG Closing Flow
260	260 GPM LPG Closing Flow

“X”	3” Valve Liquid Closing Flow Values
175	175 GPM LPG Closing Flow
250	250 GPM LPG Closing Flow
300	300 GPM LPG Closing Flow
375	375 GPM LPG Closing Flow
475	475 GPM LPG Closing Flow
500	500 GPM LPG Closing Flow

NOTE: For NH_3 multiply GPM by .90
Side discharge increases differential to close by approx. 2 PSIG

Part No. (1)		Description	Accessories
Ductile Iron	CF8M Stainless Steel		Bell Housing
ME992-16-”X”	**ME992SS-16-”X”**	2” MNPT x 2” FNPT Tee Body Internal Valve	MEP889-16
ME992A-16-”X”	–	2” MNPT x 2” FNPT Tee Body Internal Valve - with Pneumatic Actuator	
ME992AR-16-”X”	–	2” MNPT x 2” FNPT Tee Body Internal Valve - with Rotary Actuator	
ME992M-16-”X”	–	2” MNPT x 2” FNPT Tee Body Internal Valve - with Manual Latch	
ME992-24-”X”	**ME992SS-24-”X”**	3” MNPT x 3” FNPT Tee Body Internal Valve	MEP889-24
ME992A-24-”X”	–	3” MNPT x 3” FNPT Tee Body Internal Valve - with Pneumatic Actuator	
ME992AR-24-”X”	–	3” MNPT x 3” FNPT Tee Body Internal Valve - with Rotary Actuator	
ME992M-24-”X”	–	3” MNPT x 3” FNPT Tee Body Internal Valve - with Manual Latch	

(1) Indicate desired excess flow closing value when ordering - see chart for values - i.e. ME992-24-250 (250 GPM)
To order PTFE add “T” after the prefix part number i.e. ME992T-24-250
To order FFKM add “K” after the prefix part number i.e. ME992K-24-250
To order FKM add “V” after the prefix part number i.e. ME992V-24-250

BUILT & TESTED
IN THE USA

2” & 3” FLANGED TEE BODIES

Intended for use on bobtail delivery trucks, transport trucks and large storage tanks with 2” & 3” flanged connections in directional or bi-directional flow applications. Provides both manual shut-down and excess flow closing in the event of the piping being separated from the valve. Can be equipped with manual latch, pneumatic or rotary actuat or open/ closing devices. All valve models are equipped with a break-away feature in the cast body which permits the pump or piping to shear off in the event of side impact, leaving the valve poppet intact and protecting the tank from catastrophic product loss. The tee body features an additional FNPT side discharge port for liquid service applications. FOR LIQUID OR VAPOR SERVICE APPLICATIONS.

NOTE: See pages 72-74 for flanged deminsions and installation torque values.

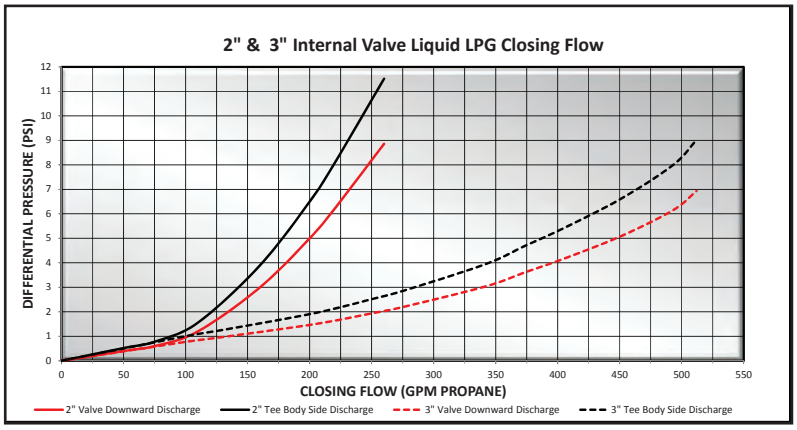
FEATURES

- Durable steel body with cadmium surface plating
- All stainless internal component construction
- One piece threaded packing gland
- Precision machined hard coated stem & stem guide
- Fully retained Nitrile seat disc
- Largest variety of excess flow closing values
- Corrosion resistant sleeved flange bolt holes
- Xylan coated corrosion resistant mounting studs
- Roller cam actuation
- Industry’s fastest bleed time
- Removable data plate
- Industry’s easiest valve to service
- Standard construction utilizes Nitrile seals
- Available with PTFE, FKM, or FFKM seals
- Available with 316 Stainless Steel bodies
- Rulon™ bearings on stem and stub shafts

ME992S-2F-16 Series

ME992S-3F-24 Series

BUILT & TESTED IN THE USA



“X”	2” Valve Liquid Closing Flow Values
110	110 GPM LPG Closing Flow
160	160 GPM LPG Closing Flow
260	260 GPM LPG Closing Flow

“X”	3” Valve Liquid Closing Flow Values
175	175 GPM LPG Closing Flow
250	250 GPM LPG Closing Flow
300	300 GPM LPG Closing Flow
375	375 GPM LPG Closing Flow
475	475 GPM LPG Closing Flow
500	500 GPM LPG Closing Flow

NOTE: For NH_3 multiply GPM by .90

Part No. (1)		Description
Ductile Iron	CF8M Stainless Steel	
ME992S-2F-16-”X”	**ME992SS-2F-16-”X”**	2”-300 lb. Modified Single Flange x 2” FNPT Tee Body Internal Valve
ME992SA-2F-16-”X”	–	2”-300 lb. Modified Single Flange x 2” FNPT Tee Body Internal Valve - w/ Pneumatic Actuator
ME992SAR-2F-16-”X”	–	2”-300 lb. Modified Single Flange x 2” FNPT Tee Body Internal Valve - w/Rotary Actuator
ME992S-3F-24-”X”	**ME992SS-3F-24-”X”**	3”-300 lb. Modified Single Flange x 3” FNPT Tee Body Internal Valve
ME992SA-3F-24-”X”	–	3”-300 lb. Modified Single Flange x 3” FNPT Tee Body Internal Valve - wi/Pneumatic Actuator
ME992SAR-3F-24-”X”	–	3”-300 lb. Modified Single Flange x 3” FNPT Tee Body Internal Valve - w/ Rotary Actuator

* Indicate desired excess flow closing value when ordering - see chart for values i.e. ME992S-3F-24-250 (250 GPM)
To order PTFE add “T” after the prefix part number i.e. ME992ST-3F-24-250
To order FFKM add “K” after the prefix part number i.e. ME992SK-3F-24-250
To order FKM add “V” after the prefix part number i.e. ME992SV-3F-24-250

EXCELERATOR™ INTERNAL VALVES

2” & 3”- 300 LB 3-WAY FLANGED TEE BODY SERIES

Intended for use on bobtail delivery trucks, transport trucks and large storage tanks with 2” & 3” flanged connections in directional or bi-directional flow applications. Provides both manual shut-down and excess flow closing in the event of the piping being separated from the valve. Can be equipped with manual latch, pneumatic or rotary actuator open/ closing devices. All valve models are equipped with a break-away feature in the cast body which permits the pump or piping to shear off in the event of side impact, leaving the valve poppet intact and protecting the tank from catastrophic product loss. The flanged tee body features an additional 300 lb. flanged side discharge port for liquid service applications.

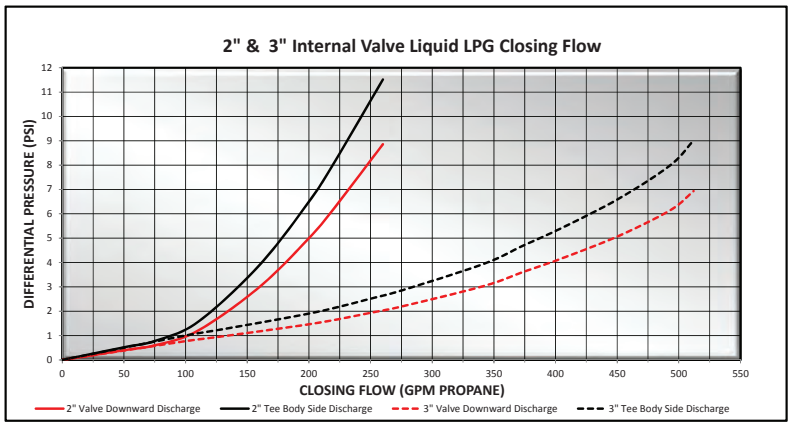
FOR LIQUID OR VAPOR SERVICE APPLICATIONS.

NOTE: See pages 72-74 for flanged deminsions and installation torque values.

FEATURES

- Durable steel body with cadmium surface plating
- All stainless internal component construction
- One piece threaded packing gland
- Precision machined hard coated stem & stem guide
- Largest variety of excess flow closing values
- Corrosion resistant sleeved flange bolt holes
- Xylan coated corrosion resistant mounting studs
- Standard construction utilizes Nitrile seals ®
- Available with PTFE, FKM, or FFKM seals
- Available with 316 Stainless Steel bodies
- Rulon™ bearings on stem and stub shafts
- Fully retained Nitrile seat disc
- Roller cam actuation
- Industry’s fastest bleed time
- Removable data plate
- Industry’s easiest valve to service

ME993S-16 Series



“X”	2” Valve Liquid Closing Flow Values
110	110 GPM LPG Closing Flow
160	160 GPM LPG Closing Flow
260	260 GPM LPG Closing Flow

“X”	3” Valve Liquid Closing Flow Values
175	175 GPM LPG Closing Flow
250	250 GPM LPG Closing Flow
300	300 GPM LPG Closing Flow
375	375 GPM LPG Closing Flow
475	475 GPM LPG Closing Flow
500	500 GPM LPG Closing Flow

NOTE: For NH_3 multiply GPM by .90

Part No. (1)		Description
WCC A216 Steel	CF8M Stainless Steel	
ME993S-16-”X”	**ME993SS-16-”X”**	2”-300 lb. Modified Single Flange x (2) 2”-300 lb.Tee Body Internal Valve
ME993SA-16-”X”	–	2”-300 lb. Modified Single Flange x (2) 2”-300 lb.Tee Body Internal Valve - with Pneumatic Actuator
ME993SAR-16-”X”	–	2”-300 lb. Modified Single Flange x (2) 2”-300 lb. Tee Body Internal Valve - with Rotary Actuator
ME993S-24-”X”	**ME993SS-24-”X”**	3”-300 lb. Modified Single Flange x (2) 3”-300 lb. Tee Body Internal Valve
ME993SA-24-”X”	–	3”-300 lb. Modified Single Flange x (2) 3”-300 lb. Tee Body Internal Valve - with Pneumatic Actuator
ME993SAR-24-”X”	–	3”-300 lb. Modified Single Flange x (2) 3”-300 lb. Tee Body Internal Valve - with Rotary Actuator

(1) Indicate desired excess flow closing value when ordering - see chart for values i.e. ME993S-24-250 (250 GPM)
To order PTFE add “T” after the prefix part number i.e. ME993ST-24-250
To order FFKM add “K” after the prefix part number i.e. ME993SK-24-250
To order FKM add “V” for after the prefix part number i.e. ME993SV-24-250

BUILT & TESTED IN THE USA

EXCELA-FLANGE™ INTERNAL VALVES

2"- 300 LB X 2" - 8 BOLT COMPANION FLANGE

The ME994S-2F series valves feature our new modular ***Excela-Flange***™ 2"-8 bolt outlet flange design that can be easily adapted to either 2" NPT or socket weld companion flanges (MEP994S-2F-2SW) making it universal to either piping construction.

FOR LIQUID OR VAPOR SERVICE APPLICATIONS.

NOTE: See pages 72-74 for flanged deminsions and installation torque values.

ME994S-2F-16 Series

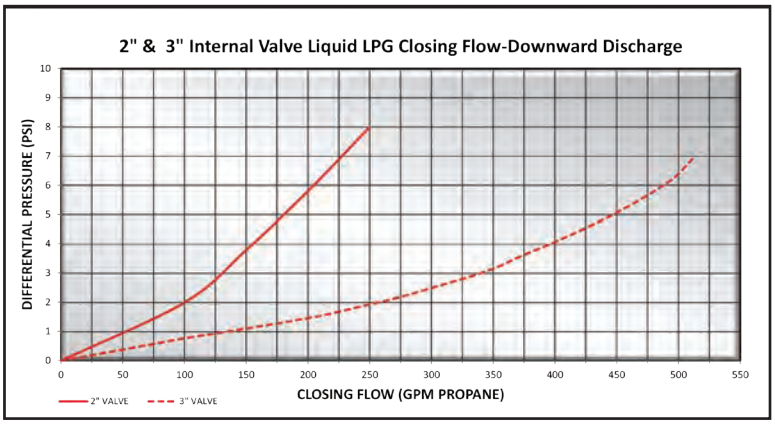
BUILT & TESTED IN THE USA

FEATURES

- Durable steel body with cadmium surface plating
- Universal 2"-8 bolt outlet flange connection for threaded or welded piping
- Universal 2" -8 bolt outlet flange provides a built-in union joint for easy servicability
- All stainless internal component construction
- One piece threaded packing gland
- Precision machined hard coated stem & stem guide
- Fully retained nitrile seat disc
- Largest variety of excess flow closing values
- Corrosion resistant sleeved flange bolt holes
- Xylan coated corrosion resistant mounting studs
- Roller cam actuation
- Industry's fastest bleed time
- Removable data plate
- Industry's easiest valve to service
- Standard construction utilizes nitrile seals
- Available with PTFE, FKM, or FFKM seals
- Available with 316 Stainless Steel bodies
- Rulon™ bearings on stem and stub shafts
- Fits standard 2" - 300# flanged tank openings

X	2" Valve Liquid Closing Flow Values
110	110 GPM LPG Closing Flow
160	160 GPM LPG Closing Flow
260	260 GPM LPG Closing Flow

NOTE: For NH_3 Multiply GPM by .90



Part No. (1)		Description	Weight (lbs.)
WCC A216 Steel	CF8M Stainless Steel		
ME994S-2F-16-"X"	**ME994SS-2F-16-"X"**	2"-300 lb. Modified Single Flange x 2"-8 Bolt Flange Internal Valve	21.6
ME994SA-2F-16-"X"	–	2"-300 lb. Modified Single Flange x 2"-8 Bolt Flange Internal Valve w/ Pneumatic Actuator	35.5
ME994SAR-2F-16-"X"	–	2"-300 lb. Modified Single Flange x 2"-8 Bolt Flange Internal Valve w/ Rotary Actuator	28.9

* Indicate desired excess flow closing value when ordering - see chart for values i.e. ME994S-2F-16-260 (260 GPM)
To order PTFE add "T" after the prefix part number i.e. ME994ST-2F-16-260
To order FFKM add "K" after the prefix part number i.e. ME994SK-2F-16-260
To order FKM add "V" for after the prefix part number i.e. ME994SV-2F-16-260

Companion Flange Kits			
Part No.	CF8M Stainless Steel	Description	
MEP994-2F-16	MEP994SS-2F-16	2" -8 Bolt x 2" FNPT Companion Flange Kit w/ Bolts and O-Ring	3.5
MEP994-2F-2SW	MEP994SS-2F-2SW	2" -8 Bolt x 2" Socket Weld Companion Flange Kit w/ Bolts and O-Ring	3.6

EXCELERATOR™ INTERNAL VALVES

3”-300 LB SINGLE FLANGED

Intended for use on transport trucks, bobtail trucks and large storage tanks with 3” flanged connections in directional or bi-directional flow applications. Provides both manual shut-down as well as excess flow closing in the event of the piping being seperated from the valve. Can be equipped with a pneumatic actuator open/closing device.

FOR LIQUID OR VAPOR SERVICE APPLICATIONS.

NOTE: See pages 72-74 for flanged deminsions and installation torque values.

FEATURES

- All stainless construction
- Precision machined stem & stem guide
- Fully retained seat disc
- Largest variety of excess flow closing values
- Corrosion resistant sleeved flange bolt holes
- Xylan coated corrosion resistant mounting studs
- Removable data plate
- Threaded packing gland with seal ejector spring
- Standard construction utilizes nitrile seals
- Available with PTFE, FKM, or FFKM seals
- Rulon™ bearings on stem and stub shafts

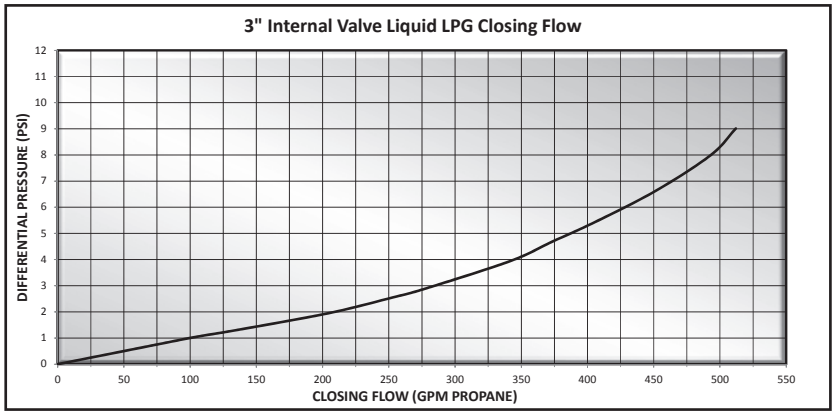
ME990-3F Series

Part No. (1)	Description
ME990-3F-”X”	***Excelerator***™ 3” Single Flange Internal Valve
ME990A-3F-”X”	***Excelerator***™ 3” Single Flange Internal Valve w/ Pneumatic Actuator

(1) Indicate desired excess flow closing value when ordering - see chart for values i.e. ME990-3F-500 (500 GPM)
To order FFKM add “K” after the prefix part number i.e. ME990K-3F-500
To order Neoprene add “N” for Neoprene after the prefix part number i.e. ME990N-3F-500
To order FKM add “V” after the prefix part number i.e. ME990V-3F-500

“X”	3” Valve Liquid Closing Flow Values
175	175 GPM LPG Closing Flow
250	250 GPM LPG Closing Flow
300	300 GPM LPG Closing Flow
375	375 GPM LPG Closing Flow
400	400 GPM LPG Closing Flow
475	475 GPM LPG Closing Flow
500	500 GPM LPG Closing Flow

NOTE: For NH3 Multiply GPM by .90



BUILT & TESTED
IN THE USA

3”- FLANGED INTERNAL VALVES

Intended for use on bobtail delivery trucks, transport trucks and large storage tanks with 3” flanged connections in directional or bi-directional flow applications. Provides both manual shut-down and excess flow closing in the event of the piping being separated from the valve. Can be equipped with manual latch, pneumatic or rotary actuat or open/ closing devices. All valve models are equipped with a break-away feature in the cast body which permits the pump or piping to shear off in the event of side impact, leaving the valve poppet intact and protecting the tank from catastrophic product loss. FOR LIQUID OR VAPOR SERVICE APPLICATIONS.

NOTE: See pages 72-74 for flanged deminsions and installation torque values.

FEATURES

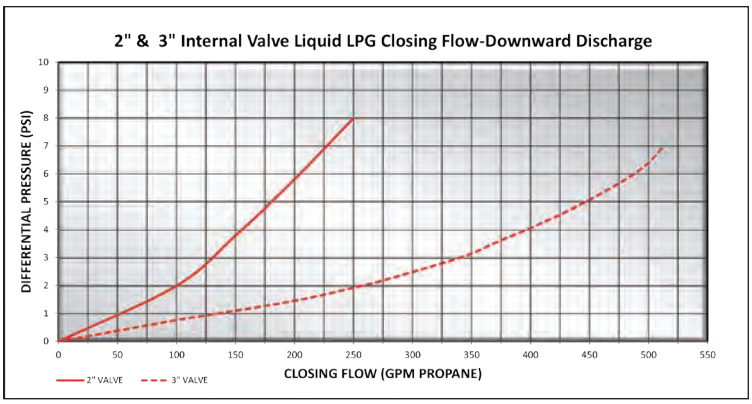
- Durable steel body with cadmium surface plating
- All stainless internal component construction
- One piece threaded packing gland
- Precision machined hard coated stem & stem guic
- Fully retained Nitrile seat disc
- Largest variety of excess flow closing values
- Corrosion resistant sleeved flange bolt holes
- Xylan coated corrosion resistant mounting studs
- Roller cam actuation
- Industry’s fastest bleed time
- Removable data plate
- Industry’s easiest valve to service
- Standard construction utilizes Nitrile seals
- Available with PTFE, FKM, or FFKM seals
- Available with 316 Stainless Steel bodies
- Rulon™ bearings on stem and stub shafts

ME990S-3F-24
Modified Single Flange Series

ME990S-3DF
Standard Double Flange Series

ME990S-3DFM
Modified Double Flange Series

BUILT & TESTED IN THE USA



“X”	3” Valve Liquid Closing Flow Values
175	175 GPM LPG Closing Flow
250	250 GPM LPG Closing Flow
300	300 GPM LPG Closing Flow
375	375 GPM LPG Closing Flow
400	400 GPM LPG Closing Flow
475	475 GPM LPG Closing Flow
500	500 GPM LPG Closing Flow

NOTE: For NH_3 multiply GPM by .90 PM by .90

Part No. (1)		Description	Actuator Type
WCC A216 Steel	CF8M Stainless Steel		
ME990S-3DF-”X”	**ME990SS-3DF-”X”**	3” Double Flange Bobtail Internal Valve	–
ME990SA-3DF-”X”	–		Pneumatic
ME990SAR-3DF-”X”	–		Rotary
ME990S-3DFM-”X”	**ME990SS-3DFM-”X”**	3”-300 lb. Modified Double Flange Internal Valve	–
ME990SA-3DFM-”X”	–		Pneumatic
ME990SAR-3DFM-”X”	–		Rotary
ME990S-3F-24-”X”	**ME990SS-3F-24-”X”**	3”-300 lb. Modified Single Flange x 3” FNPT Internal Valve	–
ME990SA-3F-24-”X”	–		Pneumatic
ME990SAR-3F-24-”X”	–		Rotary

* Indicate desired excess flow closing value when ordering - see chart for values i.e. ME990S-3DF-250 (250 GPM)
To order PTFE add “T” after the prefix part number i.e. ME990ST-3DF-300
To order FFKM add “K” after the prefix part number i.e. ME990SK-3DF-300
To order FKM add “V” after the prefix part number i.e. ME990SV-3DF-300

EXCELA-FLANGE™ INTERNAL VALVES

3”- 300 LB X 3” - 8 BOLT UNIVERSAL COMPANION FLANGE SERIES

The ME994S-3F series valves feature our new modular ***Excela-Flange***™ 3”-8 bolt outlet flange design that can be easily adapted to either 3” NPT or socket weld companion flanges (MEP994S-3F-3SW) making it universal to either piping construction. FOR LIQUID OR VAPOR SERVICE APPLICATIONS.

NOTE: See pages 72-74 for flanged deminsions and installation torque values.

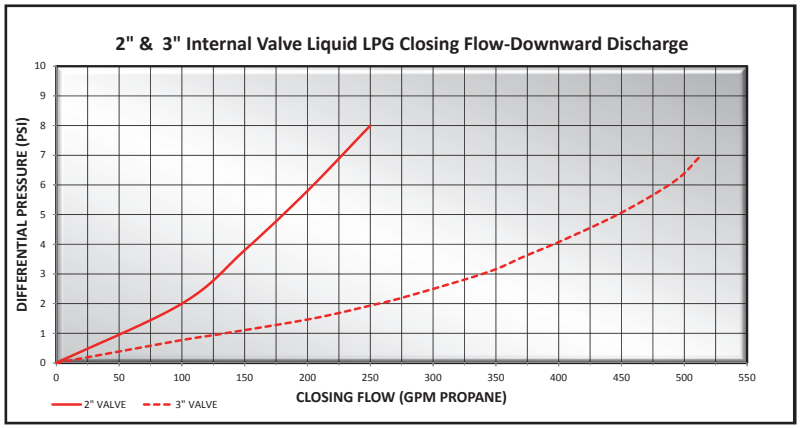
FEATURES

- Durable steel body with cadmium surface plating
- Universal 3”-8 bolt outlet flange connection for threaded or welded piping
- Universal 3”-8 bolt outlet flange provides a built-in union joint for easy servicability
- All stainless internal component construction
- One piece threaded packing gland
- Precision machined hard coated stem & stem guide
- Fully retained nitrile seat disc
- Largest variety of excess flow closing values
- Corrosion resistant sleeved flange bolt holes
- Xylan coated corrosion resistant mounting studs
- Standard construction utilizes nitrile seals
- Available with 316 Stainless Steel bodies
- Rulon™ bearings on stem and stub shafts
- Fits standard 3” - 300# flanged tank openings
- Roller cam actuation
- Industry’s fastest bleed time
- Removable data plate
- Industry’s easiest valve to service
- Available with PTFE, FKM, or FFKM seals

ME994S-3F-24 Series
(Companion Flange not included)

X	3” Valve Liquid Closing Flow Values
175	175 GPM LPG Closing Flow
250	250 GPM LPG Closing Flow
300	300 GPM LPG Closing Flow
375	375 GPM LPG Closing Flow
400	400 GPM LPG Closing Flow
475	475 GPM LPG Closing Flow
500	500 GPM LPG Closing Flow

NOTE: For NH_3 multiply GPM by .90



Part No. (1)		Description	Weight (lbs.)
WCC A216 Steel	CF8M Stainless Steel		
ME994S-3F-24-”X”	**ME994SS-3F-24-”X”**	3”-300 lb. Modified Single Flange x 3”-8 Bolt Companion Flange Internal Valve	38.3
ME994SA-3F-24-”X”	–	3”-300 lb. Modified Single Flange x 3”-8 Bolt Companion Flange Internal Valve - w/ Pneumatic Actuator	52.8
ME994SAR-3F-24-”X”	–	3”-300 lb. Modified Single Flange x 3”-8 Bolt Companion Flange Internal Valve - w/ Rotary Actuator	45.9

* Indicate desired excess flow closing value when ordering - see chart for values i.e. ME994S-3F-24-260 (260 GPM)
To order PTFE add “T” after the prefix part number i.e. ME994ST-3F-24-260
To order FFKM add “K” after the prefix part number i.e. ME994SK-3F-24-260
To order FKM add “V” after the prefix part number i.e. ME994SV-3F-24-260

Companion Flange Kits		
Part No. (1)	Description	Weight (lbs.)
MEP994-3F-24	3” -8 Bolt x 3” FNPT ***Excela-Flange***™ Companion Flange Kit w/ Bolts and O-Ring	4.8
MEP994-3F-3SW	3” -8 Bolt x 3” Socket Weld ***Excela-Flange***™ Companion Flange Kit w/ Bolts and O-Ring	4.9

BUILT & TESTED
IN THE USA

EXCELERATOR™ INTERNAL VALVES

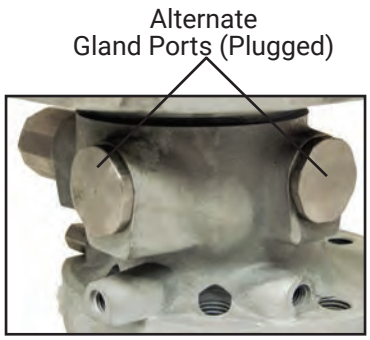
NEXT GENERATION 3" - 300 LB DOUBLE FLANGED **OFF-SET** INTERNAL VALVES

Intended for use on bobtail delivery trucks with 3" flanged connections in directional or bi-directional flow applications. The 3" offset outlet flange prevents pump installation interference with truck frame rails, cross members, PTO covers, drive shafts, and other common obstacles when remounting bobtail vessels onto new chassis. In order to reduce the amount of offset from the 2" maximum to 1-1/4", simply rotate the inlet flange connection by 1 bolt hole either direction. To eliminate the offset entirely, simply rotate 1 more bolt hole. The ***Excelerator™*** offset is equipped with three separate packing gland locations to prevent interference while mounting the valve actuator no matter how you choose to mount the valve. Provides both manual shut-down and excess flow closing in the event the of the valve being separated from the tank. Can be equipped with pneumatic or rotary actuator open/closing devices. All valve models are equipped with a break-away feature in the cast body which permits the pump or piping to shear off in the event of side impact, leaving the valve poppet intact and protecting the tank from catastrophic product loss.

NOTE: See pages 72-74 for flanged deminsions and installation torque values.

FEATURES

- Rotate valve body in either direction 1 bolt hole to reduce offset to 1-1/4"
- Standard with 3 gland ports for stem relocation (2 plugged)
- Each gland port can accept pneumatic or rotary type actuators
- Durable steel body with cadmium surface plating
- All stainless internal component construction
- One piece threaded packing gland
- Precision machined hard coated stem & stem guide
- Fully retained nitrile seat disc
- Largest variety of excess flow closing values
- Corrosion resistant sleeved flange bolt holes
- Xylan coated corrosion resistant mounting studs
- Roller cam actuation
- Industry's fastest bleed time
- Removable data plate
- Industry's easiest valve to service
- Standard construction utilizes nitrile seals
- Available with PTFE, FKM, or FFKM seals
- Available with 316 Stainless Steel bodies
- Rulon™ bearings on stem and stub shafts

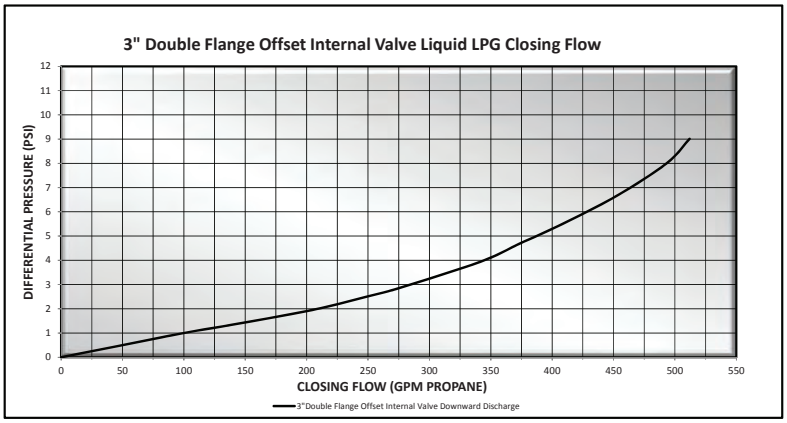


ME990S-3DFO Series

PATENT PENDING

"X"	3" Valve Liquid Closing Flow Values
175	175 GPM LPG Closing Flow
250	250 GPM LPG Closing Flow
300	300 GPM LPG Closing Flow
375	375 GPM LPG Closing Flow
400	400 GPM LPG Closing Flow
475	475 GPM LPG Closing Flow
500	500 GPM LPG Closing Flow

NOTE: For NH_3 Multiply GPM by .90



Part No. (1)		Description
WCC A216 Steel	CF8M Stainless Steel	
ME990S-3DFO-"X"	**ME990SS-3DFO-"X"**	3" Double Flange Offset Bobtail Internal Valve
ME990SA-3DFO-"X"	–	3" Double Flange Offset Bobtail Internal Valve - with Pneumatic Actuator
ME990SAR-3DFO-"X"	–	3" Double Flange Offset Bobtail Internal Valve - with Rotary Actuator

* Indicate desired excess flow closing value when ordering - see chart for values i.e. ME990S-3DFO-250 (250 GPM)
To order PTFE add "T" after the prefix part number i.e. ME990ST-3DFO-250
To order FFKM add "K" after the prefix part number i.e. ME990SK-3DFO-300
To order FKM add "V" after the prefix part number i.e. ME990SV-3DFO-300

BUILT & TESTED IN THE USA

EXCELERATOR™ INTERNAL VALVES

4” - 300 LB FLANGED

Intended for use on transport trucks and large storage tanks with 4” flanged connections in directional or bi-directional flow applications. Provides both manual shut-down as well as excess flow closing in the event of the piping being separated from the valve. Can be equipped with manual latch, pneumatic or rotary actuator open/ closing devices.

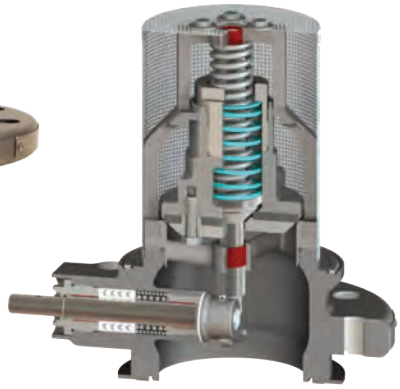
NOTE: See pages 72-74 for flanged deminsions and installation torque values.

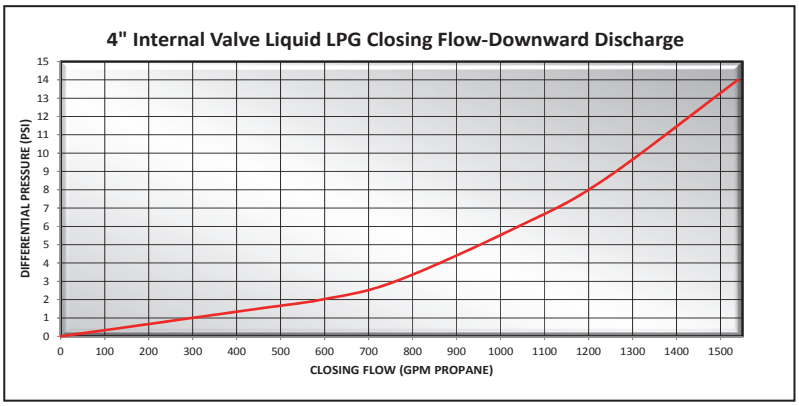
FEATURES

- All stainless construction
- Precision machined stem & stem guide
- Fully retained disc ss flow closing values
- Available with standard or #5 mesh filter screen
- Corrosion resistant sleeved flange bolt holes
- Xylan coated corrosion resistant mounting studs
- Removable data plate
- Threaded packing gland with seal ejector spring
- Standard construction utilizes Nitrile seals
- Available with PTFE, FKM, or FFKM seals
- Rulon™ bearings on stem and stub shafts

U.S. PATENT #9,476,518

ME990-4F Series





“X”	4” Valve Liquid Closing Flow Values
375	375 GPM LPG Closing Flow
500	500 GPM LPG Closing Flow
650	650 GPM LPG Closing Flow
850	850 GPM LPG Closing Flow
1250	1,250 GPM LPG Closing Flow
1500	1,500 GPM LPG Closing Flow

NOTE: For NH3 Multiply GPM by .90

Part No. (1)	Description
ME990-4F-”X”	4” Single Flange Internal Valve
ME990A-4F-”X”	4” Single Flange Internal Valve - with Pneumatic Actuator
ME990AR-4F-”X”	4” Single Flange Internal Valve - with Rotary Actuator
ME990M-4F-”X”	4” Single Flange Internal Valve - with Manual Latch

* Indicate desired excess flow closing value when ordering - see chart for values - i.e. ME990-4F-650 (650 GPM)
For #5 Mesh screen add /5 - e.i. ME990-4F-650/5
To order PTFE add “T” after the prefix part number i.e. ME990T-4F-650
To order FFKM add “K” after the prefix part number - i.e. ME990K-4F-650
To order FKM add “V” after the prefix part number - i.e. ME990V-4F-650

BUILT & TESTED
IN THE USA

4”-300 LB. & 6” -300 LB DOUBLE FLANGED INTERNAL VALVES

Intended for use on transport trucks and large storage tanks with 4” or 6” flanged connections in directional or bi-directional flow applications. Provides both manual shut-down and excess flow closing in the event of the piping being seperated from the valve. Equipped standard with a rotary actuator open/closing devices. All valve models are equipped with a break-away feature in the cast body which permits the pump or piping to shear off in the event of side impact, leaving the valve poppet intact and protecting the tank from catastrophic product loss.

NOTE: See pages 72-74 for flanged deminsions and installation torque values.

BUILT & TESTED IN THE USA

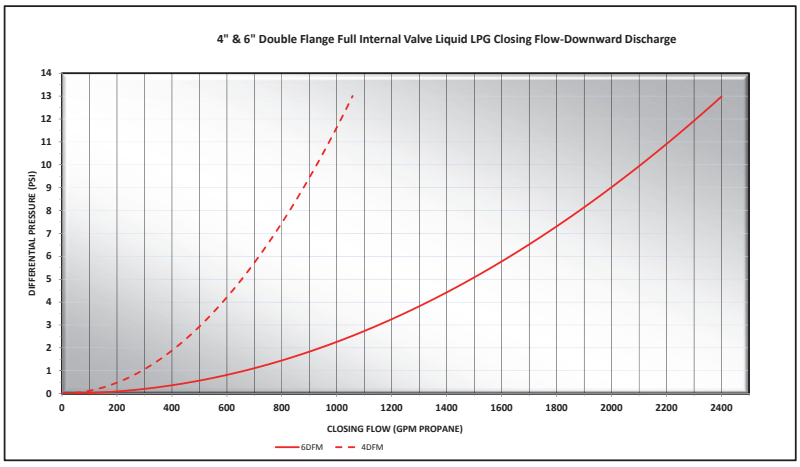
FEATURES

- Durable steel body with cadmium surface plating
- All stainless internal component construction
- One piece threaded packing gland
- Precision machined hard coated stem & stem guide
- Fully retained nitrile seat disc
- Largest variety of excess flow closing values
- Corrosion resistant sleeved flange bolt holes
- Xylan coated corrosion resistant mounting studs
- Roller cam actuation
- Industry’s fastest bleed time
- Removable data plate
- Industry’s easiest valve to service
- Standard construction utilizes nitrile seals
- Available with PTFE, FKM, or FFKM seals
- Available with 316 Stainless Steel bodies
- Rulon™ bearings on stem and stub shafts
- Fits standard 300# flange openings

ME990SAR-4DFM
4”-300LB Modified Double Flange Series

Part No. (1)		Description
WCC A216 Steel	CF8M Stainless Steel	
ME990SAR-4DFM-”X”	**ME990SSAR-4DFM-”X”**	4”-300 lb. Modified Double Flange Internal Valve - with Rotary Actuator
ME990SAR-6DFM-”X”	**ME990SSAR-6DFM-”X”**	6”-300 lb. Modified Double Flange Internal Valve - with Rotary Actuator

* Note: Indicate desired excess flow closing value when ordering - see chart for values - i.e. ME990SAR-4DFM-375 (375 GPM)
To order PTFE add “T” after the prefix part number i.e. ME990STAR-4DFM-375
To order FFKM add “K” after the prefix part number i.e. ME990SKAR-4DFM--375
To order FKM add “V” after the prefix part number i.e. ME990SVAR-4DFM-375



“X”	4” Valve Liquid Closing Flow Values
375	375 GPM LPG Closing Flow
500	500 GPM LPG Closing Flow
650	650 GPM LPG Closing Flow
800	800 GPM LPG Closing Flow
900	900 GPM LPG Closing Flow
1000	1000 GPM LPG Closing Flow

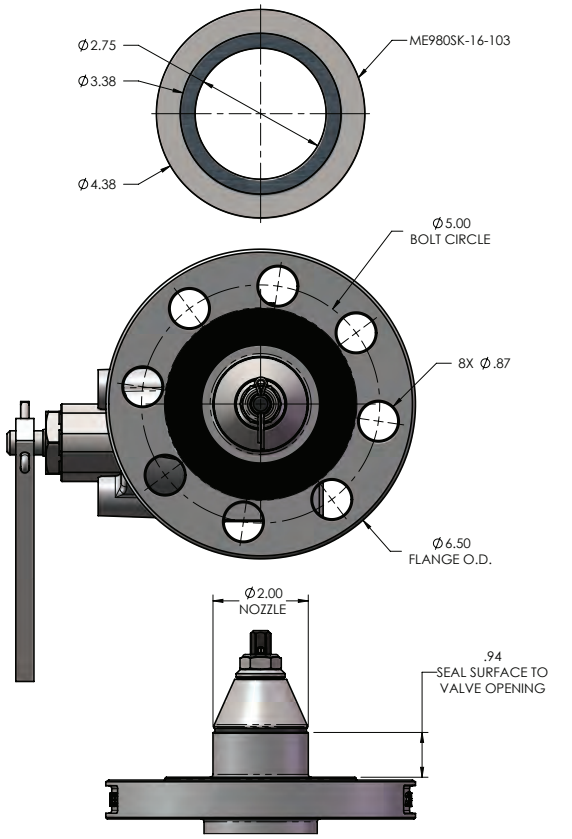
“X”	6” Valve Liquid Closing Flow Values
650	650 GPM LPG Closing Flow
1000	1000 GPM LPG Closing Flow
1250	1250 GPM LPG Closing Flow
1500	1500 GPM LPG Closing Flow
1800	1800 GPM LPG Closing Flow
2400	2400 GPM LPG Closing Flow

NOTE: For NH_3 Multiply GPM by .90

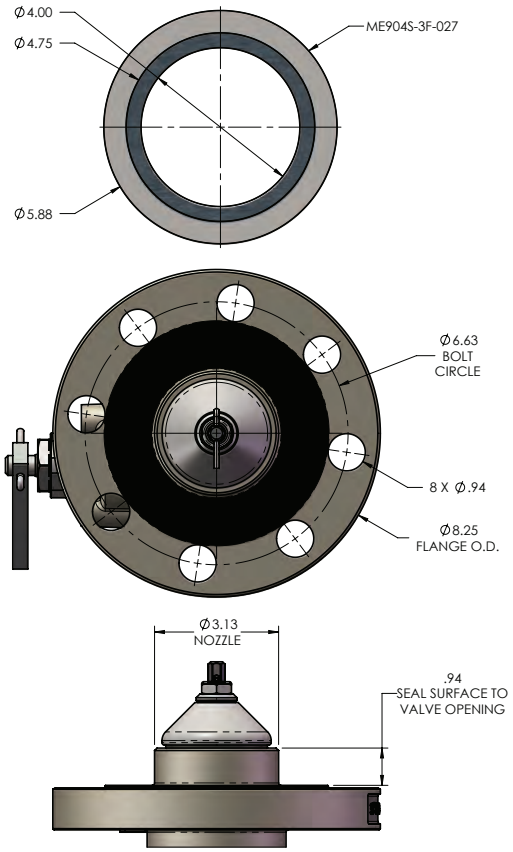
EXCELERATOR™ INTERNAL VALVES

TANK FLANGE CONNECTIONS

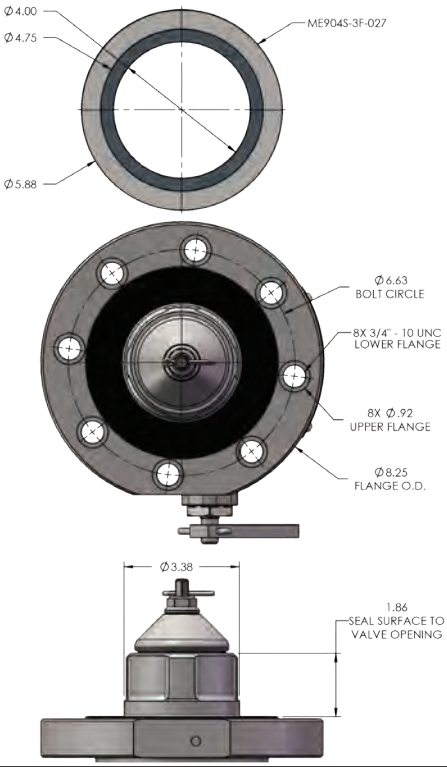
ME990-2F-16, ME992-2F-16, ME993-16, ME994-2F-16 AND ME990-2DFM SERIES 2" FLANGED INTERNAL VALVES



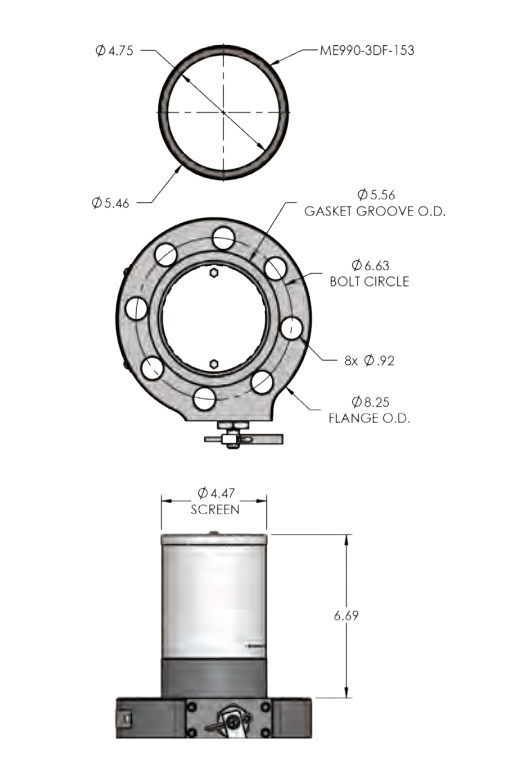
ME990-3F-24, ME992-3F-24, ME993-24 AND ME994-3F-24 SERIES 3" FLANGED INTERNAL VALVES



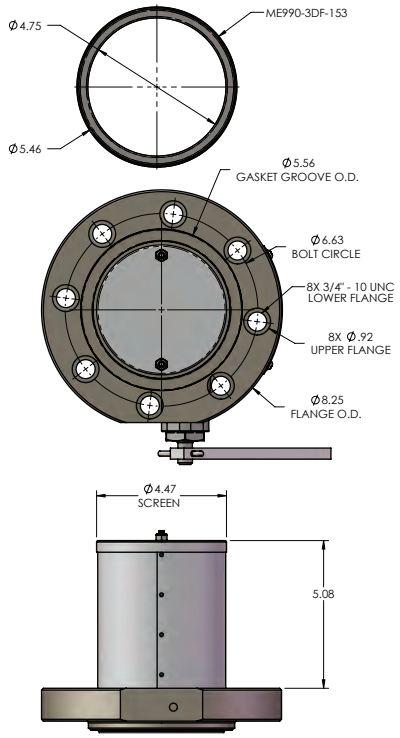
ME990-3DFM SERIES 3" DOUBLE FLANGED INTERNAL VALVES



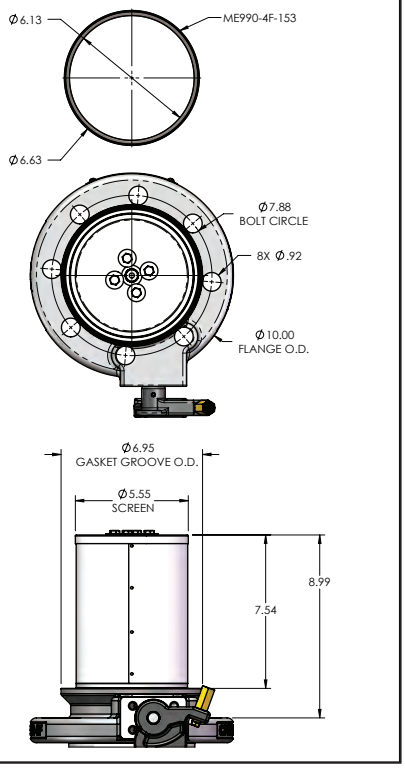
ME990-3F SERIES 3" SINGLE-FLANGED INTERNAL VALVES



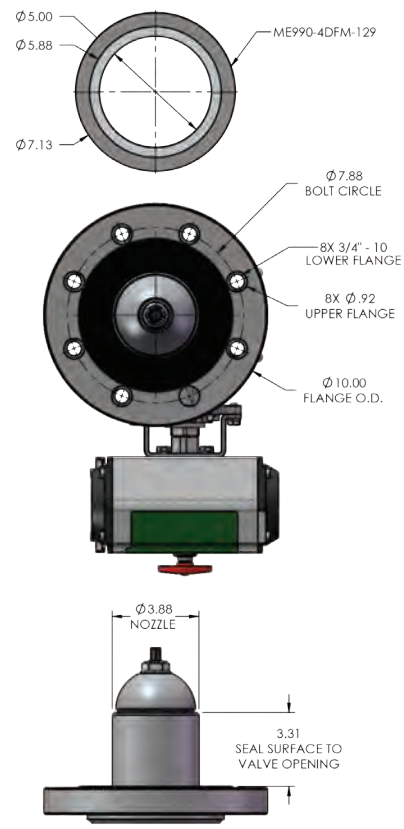
ME990-3DF AND ME990-3DFO SERIES
3" DOUBLE FLANGED INTERNAL VALVES



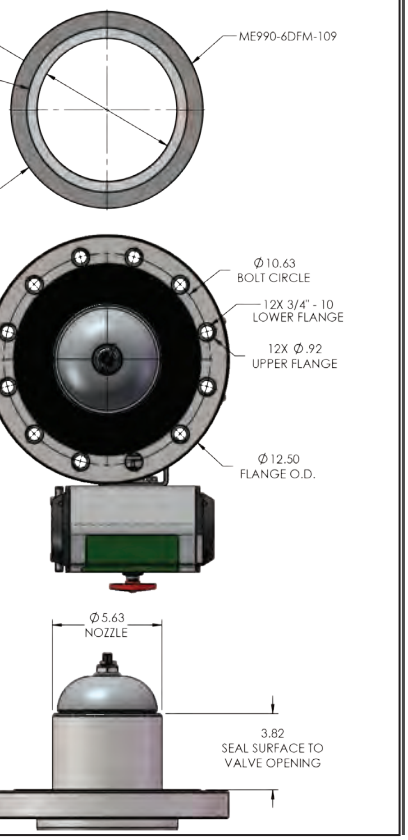
ME990-4F SERIES
4" SINGLE-FLANGED INTERNAL VALVES



ME990-4DFM SERIES
4" DOUBLE FLANGED INTERNAL VALVES



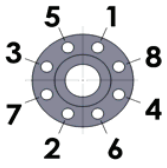
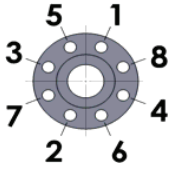
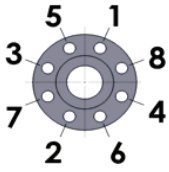
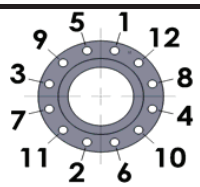
ME990-6DFM SERIES
6" DOUBLE FLANGED INTERNAL VALVES



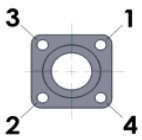
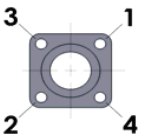
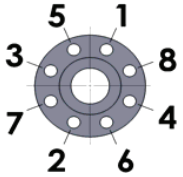
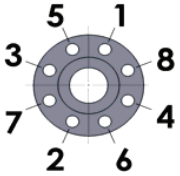
EXCELA-FLANGE™ INTERNAL VALVES

BOLT TORQUE REFERENCE

ANSI / ASME Class 300 Flanges

Nominal Pipe Size		2"	3"	4"	6"
Tightening Sequence					
Bolt / Stud	Size (Inch)	Ø 5/8	Ø 3/4	Ø 3/4	Ø 3/4
	Thread	5/8-11 UNC	3/4-10 UNC	3/4-10 UNC	3/4-10 UNC
	Min. Grade	B7	B7	B7	B7
Torque [1, 2, 3] **(Ft-Lb)**	**Lubricated**	**110**	**200**	**200**	**200**
	Dry	**150**	**250**	**250**	**250**
Wrench Size (Inch)	Standard	15/16	1-1/8	1-1/8	1-1/8
	Heavy	1-1/16	1-1/4	1-1/4	1-1/4

MEC Excela-Flanges

Flange Type		4-Bolt Square Type A / B	4-Bolt Square Type C	8-Bolt Round Companion	8-Bolt Round Companion
Size (Inch)		**1-1/4, 1-1/2 & 2**	**1-1/4, 1-1/2 & 2**	**2"**	**3"**
Tightening Sequence					
Bolt / Stud	Size (Inch)	Ø 1/2	Ø 3/8	Ø 1/2	Ø 1/2
	Thread	1/2-13 UNC	3/8-16 UNC	1/2-13 UNC	1/2-13 UNC
	Min. Grade	**8**	**8**	**8**	**8**
Torque [1, 2, 3] **(Ft-Lb)**	**Lubricated**	**75**	**30**	**75**	**75**
	Dry	**100**	**40**	**100**	**100**
Wrench Size	(Inch)	3/4	9/16	3/4	3/4

[1] Threaded flange material and thread engagement with stud must be capable of achieving final torque
[2] The torque wrench used should have a minimum accuracy of 5% of full scale or 10% of indicated value
[3] Xylan coated studs and bolts should be installed to the "Lubricated" torque spec. due to it's low friction

Recommended Flange Installation Procedure

1. Check flanges, gasket, bolts / studs and nuts for proper material and defects
2. Apply a high quality lubricant or anti-seize on bolt / stud threads and nut contact surfaces
3. Torque bolts in sequence according to the following increments:
   a.) Snug / hand-tight checking for even gap between flanges
   b.) 30% of final torque
   c.) 60% of final torque
   d.) 100% of final torque
4. Check for leaks at maximum working pressure before putting connection into service
5. Re-tighten after 24 hours (due to gasket / bolt relaxation)
6. Consider providing additional corrosion protection, such as paint or protective coating, as necessary

INTERNAL VALVE ACTUATORS

POWERTORQ SERIES

These direct drive actuators are designed to maximize the life of the internal valve by eliminating side pressure on the valve's packing stem. These actuators are intended to be used at remote locations or operated directly off the air brake system in bobtail or transport applications.

The low temperature factory installed seals allow these actuators to be used with air, nitrogen, carbon dioxide or LP-Gas vapor. In case of a fire the factory provided thermal plug melts at 212° Fahrenheit releasing pressure allowing the internal valve to close. The factory set rotation of these actuators require no modification, can be oriented in any direction and all hardware needed for installation is provided.

FEATURES

- Stainless steel all weather mounting hardware
- Field repairable under full tank pressure
- Anodized aluminum actuator body with easy to see open/close indicator
- No pinch points for operator safety
- Includes mounting bracket for ME707 Quick Release Valve
  Note: ME707 is not required for operation

ME225

ME707 & Internal valves not included

Actuator Operating Pressure Limits:
Minimum = 25 PSIG
Maximum = 125 PSIG
Recommended = 40-60 PSIG

PowerTorq Actuators

Part No.	Actuator Type	Fits MEC*	Fits Fisher*	Internal Valve
ME225	Direct Drive	ME990-10, ME991-10, ME992-10, ME992-12	Fisher® C407	1-1/4" Threaded
ME226	Direct Drive	ME990-16, ME990-24, ME992-24, ME990S-3F-24, ME990S-2DFM, ME991-16, ME991-24, ME992-16, ME992-24, ME993S-16, ME993S-24, ME994S	Fisher® C402, C421, C427, C471, C477	2" & 3" Threaded
ME227	Direct Drive	ME990S-3DF & ME990S-3DFM	Fisher® C403-24 & C483-24 Series	3" Double Flange
ME228	Direct Drive	ME990-4F	Fisher® C404-32	4" Single Flange
* Also fits Cavagna 6902900 Series internal valves				

Fisher® and Fisher® Internal Valves are the trademarks of Emerson Process Management; Cavagna is the trademark of Cavagna Group

ME227

BUILT & TESTED IN THE USA

ACCESSORIES

ME707 - The quick release valve is used in conjunction with Marshall Excelsior's air actuators to decrease the response time when closing actuators. They are particularly effective when long distances (75 feet or more) exist between the actuator and the actuator control valve.

ME708 - The 0-150 psig air pressure regulator prolongs the life of the air actuator and air system by allowing the air pressure to be set and regulated at the minimum required operating pressure for each individual system.

ME709 - The gas/air filter is used to filter foreign materials and/or particles from LP-Gas systems such as motor fuel/carburetion systems. Also designed to be used to filter air supply lines for internal and emergency shutoff valve actuator systems.

MEGR-130-50 - Pressure reducing regulator - Maximum 250 inlet, 50 PSI outlet set point

ME707

ME708
Universal Mounting Bracket Included

Part No.	Inlet	Outlet
ME707	3/8" FNPT	3/8" FNPT (2 Ports)
ME708	1/4" FNPT	1/4" FNPT
ME709	1/4" FNPT	1/4" MNPT
MEGR-130-50	1/4" FNPT	1/4" FNPT

ME709

ME130-50

INTERNAL VALVE ACTUATORS

POWERSTROKE AND FASTROKE SERIES

Designed with a heavy duty stainless steel frame to withstand the toughest conditions. These actuators are intended to be used at remote locations or operated directly off the air brake system in bobtail or transport applications.

The actuator's smooth acting cam opens the internal valve lever when air, nitrogen, or carbon dioxide is applied to the line. When pressure to the line is released, the internal valve automatically closes. In case of a fire the factory provided thermal plug melts at 212° Fahrenheit releasing pressure allowing the internal valve to close. These actuators require no modification and all hardware needed for installation is provided.

Part No.	Actuator Type	Fits MEC*	Fits*	Internal Valve
ME205	Airstroke™ by Firestone	ME990-10, ME991-10, ME992-10, ME992-12	Fisher® C407	1-1/4" Threaded
ME205R	Airstroke™ by Firestone	–	RegO® A3209R & A3209D	1-1/4" Threaded
ME206	#9 Chamber	ME990-16, ME990-24, ME990S-3F-24, ME990S-2DFM, ME991-16, ME991-24, ME992-16, ME992-24, ME993S-16, ME993S-24, ME994S	Fisher® C402, C421, C471,C427, C477	2" & 3" Threaded
ME207	#9 Chamber	ME990S-3DF & ME990S-3DFM	Fisher® C403-24 & C483-24 Series	3" Double Flange
ME207SF	#9 Chamber	ME990-3F	Fisher® C484-24 Series	3" Single Flange
ME208SF	#24 Chamber	ME990-4F	Fisher® C404-32	4" Single Flange
ME710	Airstroke™ by Firestone	–	RegO® Flowmatic® Three-Way Valve	

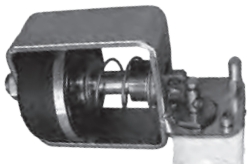
* Also fits Cavagna 6902900 Series internal valves

FEATURES

- Stainless steel all weather bracket
- Field repairable without complete disconnect from internal valve
- Repairable with common automotive brake chamber
- High gloss automotive grade black epoxy coating

ME205

FaStroke Actuators



ME205R

ME710

ACTUATOR OPERATING PRESSURE LIMITS:

Minimum = 20 PSIG
Maximum = 125 PSIG
Recommended = 20-25 PSIG

PowerStroke Actuators

ME206

ME208SF

ME207

*Internal valves not included

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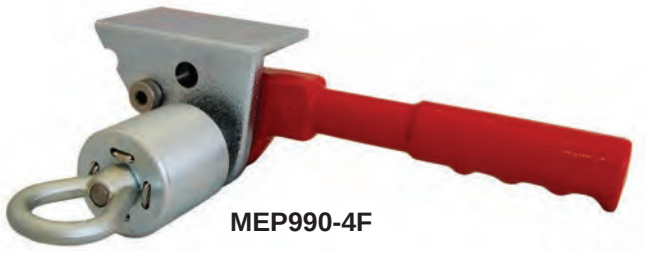
ACCESSORIES

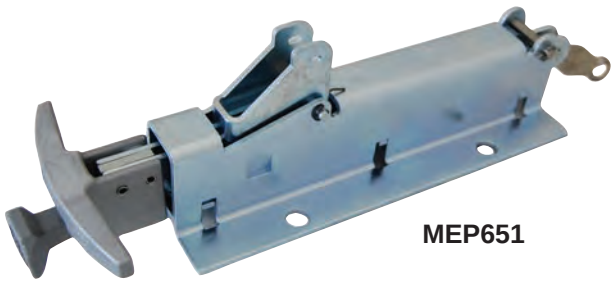
ME990-10-902

MEP990-24



MEP990-4F

Latches	
Part No.	Description
ME990-10-902	***Excelerator***™ Manual Latch Assembly for 1-1/4" & 1-1/2" Threaded Internal Valves
MEP990-24	***Excelerator***™ Manual Latch Assy For ME990-16, ME990-24, ME991-16 and ME991-24, ME992-16, ME992-24, ME994S Internal Valves
MEP990-4F	***Excelerator***™ Manual Latch Assy For ME990-4F Series



MEP651

Releases	
Part No.	Description
MEP650	***Excelerator***™ Open/Close Cable Control Release with 50' Cable
MEP651	***Excelerator***™ Open/Close Cable Control Release - Only

BUILT & TESTED IN THE USA

ESV / INTERNAL VALVE ACCESSORIES

ME980-905-25

Part No.	Description
ME980-905	Universal ESV/Internal Valve Remote Release / No Cable
ME980-905-25	Universal ESV/Internal Valve Remote Release W/ 25' Cable
ME980-905-50	Universal ESV/Internal Valve Remote Release W/ 50' Cable
ME980-906-25	Remote Release Cable Assy. 5/16-24UNF - 25' OAL
ME980-906-50	Remote Release Cable Assy. 5/16-24UNF - 50' OAL

EMERGENCY SHUTOFF VALVE ACTUATORS

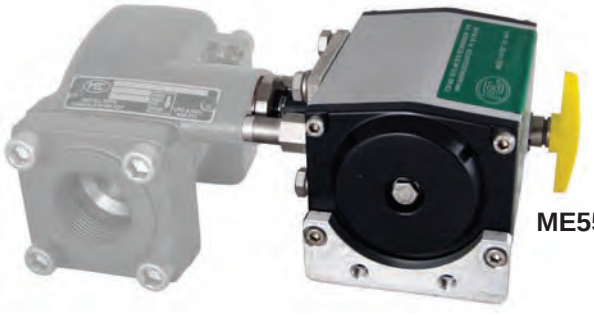
POWERTORQ

Designed to be used with emergency shutoff valves in remote locations. Pressure to the line enables a smooth acting cam to completely open the emergency shutoff valve for full flow operation. When pressure to the line is released, the emergency shutoff valve automatically closes. In case of a fire a thermal plug melts at 212° Fahrenheit releasing pressure allowing the ESV to close. These actuators require no modification and all hardware needed for installation is provided.

The ***PowerTorq*** direct drive actuator maximizes the life of the emergency shutoff valve be eliminating side pressure on the valve's packing stem.

FEATURES

- Stainless steel all weather mounting hardware
- Field repairable under full tank pressure
- Low temperature factory installed seals allow use with air, nitrogen, carbon dioxide or LP-Gas vapor
- Anodized aluminum actuator body with easy to see open/close indicator
- No pinch points for operator safety
- Factory installed thermal plug
- Includes mounting bracket for ME707 Quick Release Valve. Note: ME707 is not required for operation



ME552

Actuator Operating Pressure Limits:
Minimum = 25 PSIG
Maximum = 125 PSIG
Recommended = 40-60 PSIG

ME980 Series Emergency Shutoff Valves not included

ME551

Actuator Operating Pressure Limits:
Minimum = 20 PSIG
Maximum = 125 PSIG
Recommended = 20-25 PSIG

SAFETY STROKE

FEATURES

- Heavy duty stainless steel all weather bracket
- Use with air, nitrogen or carbon dioxide
- Uses existing Fisher® thermal plug

Part No.	Actuator Type	Fits MEC	Fits	ESV
ME551	Airstroke™ by Firestone	ME980-10, ME980-16, ME980-16-2F, ME980-24, ME980-24-3F, ME980-24-4F	Fisher® N550 Series	1-1/4", 2" & 3"
ME552	Direct Drive	ME980-10, ME980-16, ME980-16-2F, ME980-24, ME980-24-3F, ME980-24-4F	Fisher® N550 Series	1-1/4", 2" & 3"

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BUILT & TESTED IN THE USA

PNEUMATIC CONTROL / E-STOP KIT

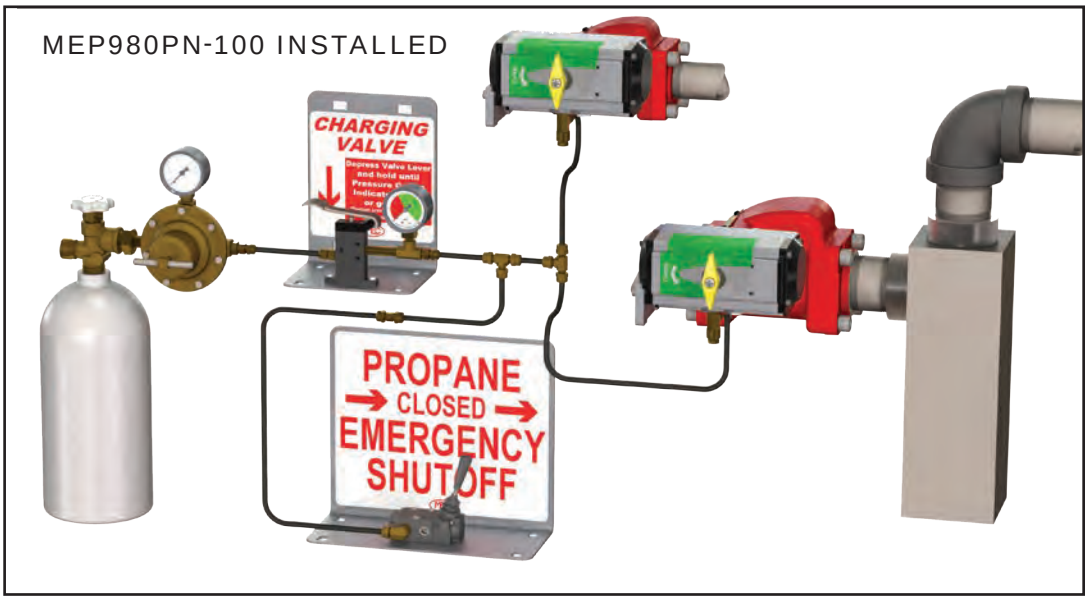
Used in conjunction with MEC pneumatic controlled emergency shutoff valves (ESV) or internal valves to remotely open and close using compressed gas. Each kit includes all necessary components for connecting and charging a pneumatic control system complete with brackets, mounting hardware, and necessary placarding in a variety of orientations for fast reliable remote system shutdown.

FEATURES

- Heavy duty pneumatic control and charging valves
- Predrilled mounting plates and hardware
- Large easy to read placards / instruction labels
- Built in leak detection gauge
- Includes 100 FT of 1/4" poly tubing and necessary compression connectors
- Additional extension tubing and connectors available
- Suitable for use with dry air, nitrogen or LPG vapor
- Easy to install

MEP980PN-100

MEP980PN-100 INSTALLED



MEC Pneumatic Control / E-Stop Kit	
Part No.	Description
MEP980PN-100	MEC Complete Pneumatic Controls / E-Stop Kit w/ Placards & 100' Poly Tubing

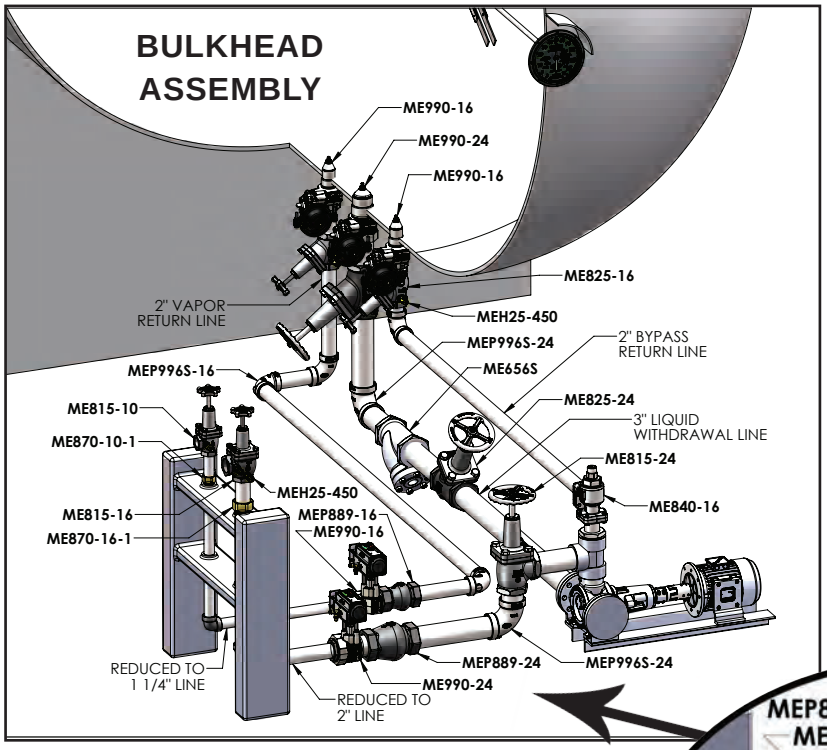
BUILT & TESTED IN THE USA

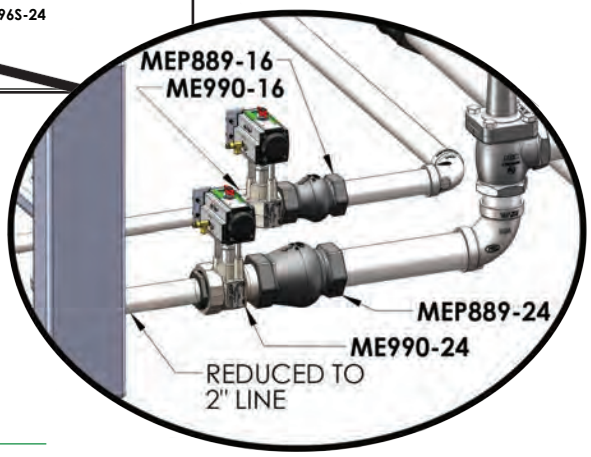
Accessories		
Part No.	Description	Material
MEP980PN-105	Compression Tube Extension Adapter - 1/8" MNPT x 1/4" CC	Brass
MEP980PN-106	Compression Tube Extension Tee - 1/4" CC	Brass
MEP980PN-113	Tubing Extension 1/4" x 100 ft roll	Poly
MEP980PN-901	Pnuematic Remote Charging Valve Assembly with Bracket	–
MEP980PN-902	Pnuematic Remote E-Shutdown Valve Assembly with Bracket	–

INTERNAL VALVE BELL HOUSINGS

HIGH CAPACITY - INLINE THREADED

Specifically designed to allow inline installation of threaded internal safety valves in place of traditional emergency shutoff valves. Each bell housing is designed with internal contours to allow ample unrestricted flow around standard internal safety valve closing poppets for reliable excess flow protection in the event of a downstream line failure or separation. Ideally suited for use in protecting bulkhead loading/unloading lines or other point of transfer applications when used with MEC ***Excelerator***™ Internal Safety Valves.





MEP889-24

MEP889-16

FEATURES

- Cadmium plated ductile iron body for maximum durability
- Provides dependable excess flow protection when used with internal safety valve installed downstream
- Internal safety valves provide thermal fire protection and can be operated with manual latch or pneumatic open/close actuators
- Ideal for step down line sizing excess flow protection for compliance to NFPA 58
- Exceptionally reliable, safe, and cost effective protection of liquid or vapor transfer lines

High Capacity Inline Threaded ESV/ISV Bell Housing		
Part No.	Description	Fits Internal Valve Models
MEP889-24	3"FNPT Inline ESV/ISV Bell Housing	ME990-24 Series
MEP889-16	2"FNPT Inline ESV/ISV Bell Housing	ME990-16 Series

BUILT & TESTED IN THE USA

ESV/ISV BELL HOUSING KITS

HIGH CAPACITY - FLANGED

Used in conjunction with MEC ***Excelerator***™ flanged internal valves for excess flow protection on inline or drop down weld neck tank construction. Each bell housing is carefully contoured to allow ample unrestricted flow around the internal valve closing poppet for accurate and reliable excess flow protection in the event of a downstream line failure or separation. Ideally suited for protection of weld neck tank openings or as replacements to traditional emergency shut off (ESV) installations.

FEATURES

- Cadmium plated ductile iron body for maximum durability
- Precise interior contour for maximum flow around internal valve poppet
- Includes all studs/nuts & gaskets
- Suitable for use as inline ESV when used in conjunction with ***Excelerator™*** Internal Valves (internal valve sold separately)

MEP990-2DFM

MEP990-3DFM

Part No.	Description	Fits Internal Valve Models
MEP990-2DFM	2"-300# Double Flange ESV/ISV Bell Housing Kit	ME990S-2DFM Series
MEP990-3DFM	3"-300# Double Flange ESV/ISV Bell Housing Kit	ME990S-3DFM Series
MEP990-4DFM	4"-300# Double Flange ESV/ISV Bell Housing Kit	ME990S-4DFM Series
MEP990-6DFM	6"-300# Double Flange ESV/ISV Bell Housing Kit	ME990S-6DFM Series

BUILT & TESTED IN THE USA

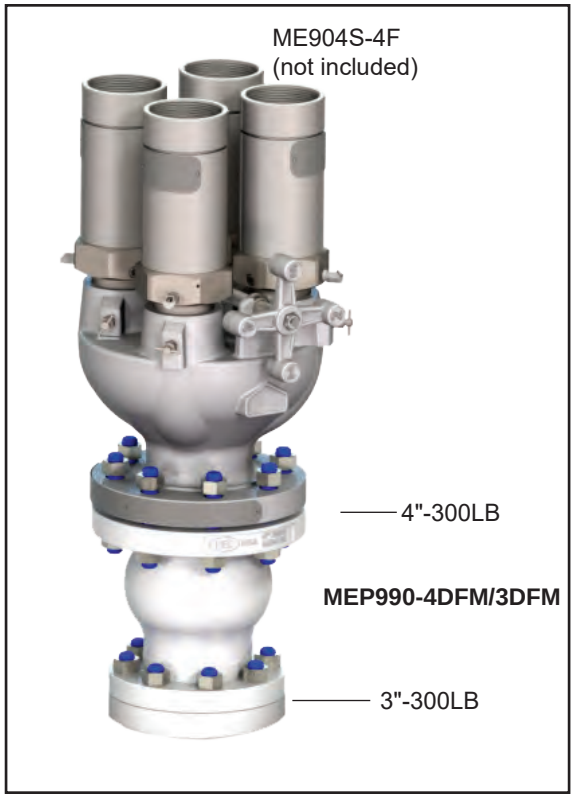
FLANGE REDUCING SPOOL ADAPTER

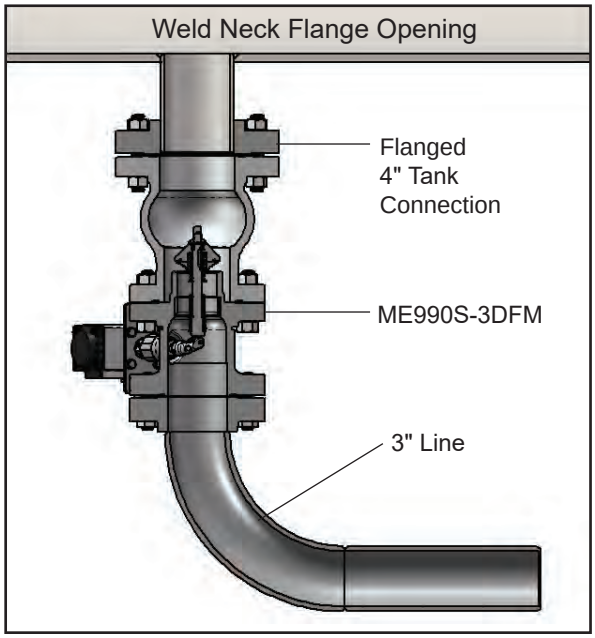
Used in conjunction with MEC ***Excelerator™*** flanged internal valves for excess flow protection on inline or drop down weld neck tank construction to safely increase or decrease tank connections or line sizing in accordance to NFPA #58 code requirements. Each bell housing is carefully contoured to allow ample unrestricted flow around the internal valve closing poppet for accurate and reliable excess flow protection in the event of a downstream line failure or separation. Ideally suited for protection of weld neck tank openings, as replacements to traditional emergency shut off (ESV) installations or to adapt flanged vapor relief tank openings from 4" to 3" or vice versa such as needed to replace ACF type relief valves.

FEATURES

- Cadmium plated ductile iron body for maximum durability
- Precise interior contour for maximum flow around internal valve poppet
- Includes all studs/nuts & gaskets
- Suitable for use as inline ESV when used in conjunction with ***Excelerator***™ Internal Valves (internal valve sold separately)

MEP990-4DFM/3DFM





4" x 3" Flange Adapting Spool		
Part No.	Description	Fits Internal Valve Models
MEP990-4DFM/3DFM	4"-300LB x 3"-300LB Flanged ACF/ESV/ISV Adapting Spool Kit	ME990S-3DFM Series

BUILT & TESTED
IN THE USA

EMERGENCY SHUTOFF VALVES

Emergency Shutoff Valves (ESV's) are designed to provide as means for rapid and positive shutdown of gas lines should a down stream rupture or piping break occur. Due to the presence of a built-in fusible element at the valve operating hub the ESV will automatically close when exposed to heat between 212° F. - 250° F. These valves are ideally suited for installation at bulkheads or inline plumbing for automatic emergency shutdown as a result of fire or to provide immediate and positive manual or remote shutdown.

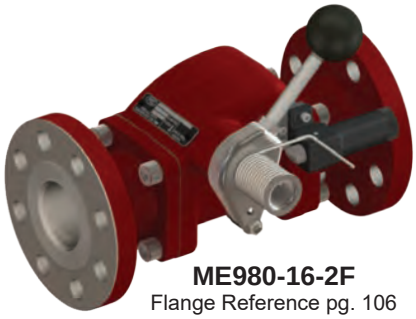
BUILT & TESTED IN THE USA

FEATURES

- Powder coated ductile iron body for maximum durability
- Integral swing away valve with soft seat to promote maximum product flow and minimize product loss in the event of a fire.
- All stainless steel internal component construction provides maximum corrosion resistance
- Flanged end connection for ease of field service
- Integral fusible element for automatic closure when exposed to fire
- Durable PTFE packing gland and resilient seals provide long lasting service life
- Available with pneumatic or cable style latch mechanism

ME980C-6

ME980-16



ME980-16-2F
Flange Reference pg. 106

ME980-24

Part No.	Description	Latch Type	Material	Flange Material	OAL	Accessories
ME980-6	3/4" FNPT Emergency Shutoff Valve (ESV)	Pneumatic	Ductile Iron	Ductile Iron	4-3/4"	–
ME980C-6	3/4" FNPT Emergency Shutoff Valve (ESV)	Cable		Ductile Iron		–
ME980-8	1" FNPT Emergency Shutoff Valve (ESV)	Pneumatic		Ductile Iron		–
ME980C-8	1" FNPT Emergency Shutoff Valve (ESV)	Cable		Ductile Iron		–
ME980-10	1-1/4" FNPT Emergency Shutoff Valve (ESV)	Pneumatic		Ductile Iron	5-3/8"	–
ME980C-10	1-1/4" FNPT Emergency Shutoff Valve (ESV)	Cable		Ductile Iron		–
ME980-12	1-1/2" FNPT Emergency Shutoff Valve (ESV)	Pneumatic		Ductile Iron		–
ME980C-12	1-1/2" FNPT Emergency Shutoff Valve (ESV)	Cable		Ductile Iron		–
ME980-16	2" FNPT Emergency Shutoff Valve (ESV)	Pneumatic		Cast Steel	6-7/8"	–
ME980C-16	2" FNPT Emergency Shutoff Valve (ESV)	Cable		Cast Steel		–
ME980-24	3" FNPT Emergency Shutoff Valve (ESV)	Pneumatic		Ductile Iron	9-5/8"	–
ME980C-24	3" FNPT Emergency Shutoff Valve (ESV)	Cable		Ductile Iron		–
ME980-16-2F	2" - 300 lb. Flange Emergency Shutoff Valve (ESV)	Pneumatic		Ductile Iron	11-7/8"	ME980SK-16 Stud Kit
ME980C-16-2F	2" - 300 lb. Flange Emergency Shutoff Valve (ESV)	Cable		Ductile Iron		
ME980-24-3F	3" - 300 lb. Flange Emergency Shutoff Valve (ESV)	Pneumatic		Ductile Iron	14-1/8"	ME980SK-24 Stud/Nut Kit
ME980C-24-3F	3" - 300 lb. Flange Emergency Shutoff Valve (ESV)	Cable		Ductile Iron		
ME980-24-4F	4" - 300 lb. Flange Emergency Shutoff Valve (ESV)	Pneumatic		Ductile Iron	14-1/4"	
ME980C-24-4F	4" - 300 lb. Flange Emergency Shutoff Valve (ESV)	Cable		Ductile Iron		

To order ESV with Pneumatic Actuator add "A" after the prefix part number i.e. ME980A-10 (available for 1-1/4" - 4" styles}
To order ESV with Rotary Actuator add "AR" after the prefix part number i.e. ME980AR-10 (available for 1-1/4" - 4" styles}

EMERGENCY SHUTOFF VALVES

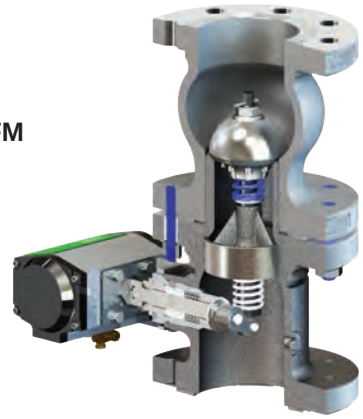
HIGH CAPACITY - FLANGED

Emergency Shutoff Valves (ESV's) are designed to provide rapid and positive shutdown of gas lines should a downstream rupture or piping break occur. Due to the presence of a built-in fusible element at the valve operating hub the ESV will automatically close when exposed to heat between 212° F. - 250° F. These valves are ideally suited for installation at bulkheads or inline plumbing for automatic emergency shutdown as a result of fire or to provide immediate and positive manual or remote shutdown.

FEATURES

- Cadmium plated steel / ductile iron body for maximum durability
- Long stroke internal valve poppet for maximum product flow
- All stainless steel internal component construction provides maximum corrosion resistance
- Flanged end connection for ease of field service
- Integral fusible element for automatic closure when exposed to fire
- Durable PTFE packing gland and resilient seals provide long lasting service life
- Pre-mounted inlet bell housing for quick and easy installation
- All mounting hardware included

ME980SAR-4DFM



Emergency Shut Off Valves (ESV's)		
Part No.	Description	Actuator Type
ME980SAR-4DFM	4" - 300LB Flange Emergency Shutoff Valve (ESV)	Rotary
ME980SAR-6DFM	6" - 300LB Flange Emergency Shutoff Valve (ESV)	Rotary

BUILT & TESTED
IN THE USA

EXCELERATOR™ HIGH FLOW RAILCAR ESV

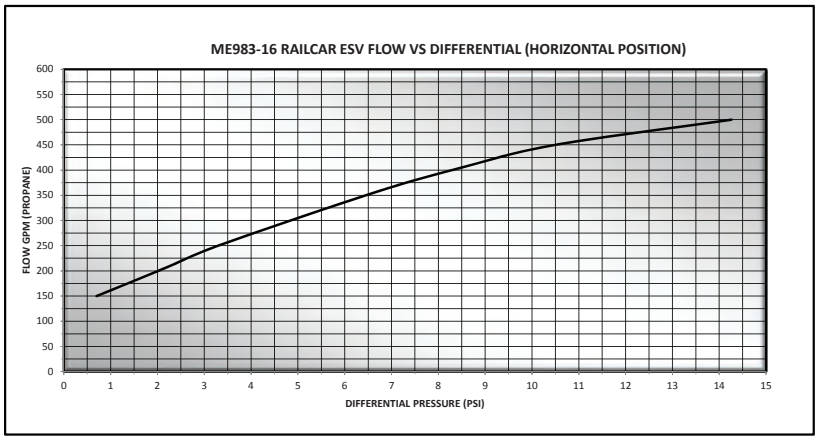
Excelerator™ Railcar Emergency Shutoff Valves (ESV's) are designed to provide rapid and positive shutdown of gas lines should a downstream rupture or piping break occur during product transfer. Featuring a built-in fusible element at the valve operating hub to ensure the ESV will automatically close when exposed to heat between 212° F. - 250° F. In addition to the fusible element, the Excelerator Railcar ESV's are equipped with a poppet design similar the MEC internal safety valves that provides an integral excess flow feature. MEC ***Excelerator***™ Railcar ESV's are equipped standard with quick disconnect internal pneumatic operators for rapid and reliable open/close of the poppet allowing for convenient on site or remote shutdown of the valve.

BUILT & TESTED IN THE USA

FEATURES

- 316 Stainless Steel Body
- All stainless steel internal component construction provides maximum corrosion resistance
- Hardened stainless steel flanged end connection for durability and ease of field service
- Integral fusible element for automatic closure when exposed to fire
- Durable PTFE packing gland with resilient seals providing long lasting service life
- 100% field repairable - no special tools required
- E-Z grip ribs for installation even with heavy protective hand wear

ME983 Series



Part No.	Description	Closing Flow GPM/LPG
ME983-16/150	High Flow Railcar ESV 2" FNPT X 2" FNPT	150*
ME983-16/250	High Flow Railcar ESV 2" FNPT X 2" FNPT	250
ME983-16/500	High Flow Railcar ESV 2" FNPT X 2" FNPT	500
ME983-16	High Flow Railcar ESV 2" FNPT X 2" FNPT	~

* Recommended for vapor service - approx. closing flow 71,000 SCFH/LPG
~ Available with FFKM, FKM and Neoprene seal materials
~ For NH3 multiply GPM by .90

FIRE EMERGENCY SHUT OFF VALVES

GLOBE AND ANGLE CONFIGURATIONS

Fire Emergency Shutoff Valves (FSV's) are designed for use in conjunction with some fire suppression systems in gas-operated kitchens to provide rapid interruption of gas supply should a fire occur. The emergency shut-off valve mechanism requires a cable connection from the cam latch to the system control unit through a series of EMT conduit and corner pulleys. The valve will automatically close when the suppression system's fusible link separates in a fire condition, ultimately causing enough force on the connected cable to trip the gas shut-off trigger. The valve can also be closed manually by pulling the release cable. Once the valve has been tripped to close, it must be manually reset to restore gas service. The ME810FSV and ME820FSV series valves feature superior construction for ease of use and durability.

Fire Emergency Shut Off Valves (FSV's)		
Part No. Angle	Inlet & Outlet (FNPT)	1/4" NPT side ports
ME810FSV-4	1/2"	2
ME810FSV-6	3/4"	2
ME810FSV-8	1"	2
Globe		
ME820FSV-4	1/2"	1
ME820FSV-6	3/4"	1
ME820FSV-8	1"	1

ME810FSV Series
Angle style configuration

ME820FSV Series
Globe style configuration

FEATURES

- Entire valve mechanism and protective cover can be rotated 360 degrees offering maximum installation versatility
- Powder coated ductile iron body offers strength and durability
- All stainless steel internal component construction provides maximum corrosion resistance
- Release mechanism requires 10 lbs. of pull force to release allowing valve to close
- Constructed with unique handle design for easy cam reset
- Maximum operating pressure is 138 kPa (20 psig)
- Can be used in temperatures ranging from 0°C to 49°C (32°F to 120°F)
- Valves may be installed in a horizontal or vertical orientation
- S-hook included for connecting the cable from the control unit to the valve release mechanism

Cable can be connected to the provided S-hook as shown, or directly to the valve release mechanism

BUILT & TESTED
IN THE USA

FLOW INDICATING SWING CHECK VALVES

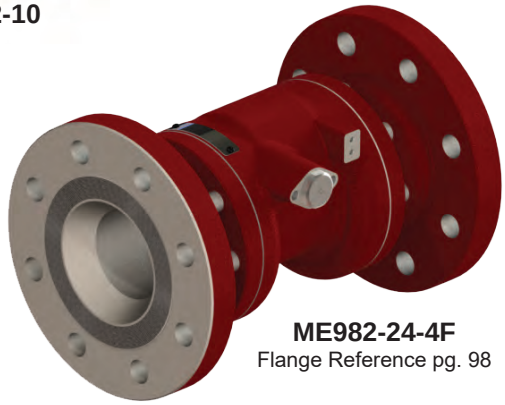
Promotes maximum pump efficiency by providing system operators with a visual inspection point for monitoring liquid flow conditions as well as providing a soft seat back check valve to prevent reverse product flow. Installation of a flow indicating swing check valve upstream of the pump allows the operator to observe product flow and make pump adjustments for maximum flow without cavitation. Suitable for stationary and mobile applications.

BUILT & TESTED IN THE USA

ME981-10
Indicating Check Valve

ME982-10

ME981-6



ME982-24-4F
Flange Reference pg. 98

FEATURES

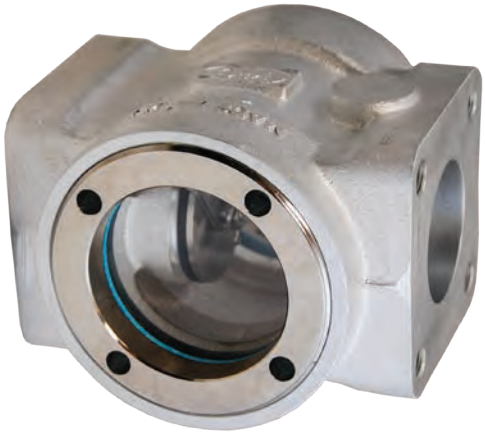
- Powder coated ductile iron body for maximum durability
- Removable flanged ends for ease of field service
- Integral swing away check valve with soft seat to promote maximum product flow and prevent reverse product flow
- All stainless steel internal component construction provides maximum corrosion resistance
- Magnetically coupled flow indicator for maximum protection against leaks and minimal resistance to product flow
- Clear/Easy to read flow indicator with “Glow” arrow allows the operator to easily see if the valve is open or closed

Part No.	Description	Material	Flange Material	OAL
ME981-6	3/4” FNPT Flow Indicating Check Valve	Ductile Iron	Ductile Iron	4-3/4”
ME981-8	1” FNPT Flow Indicating Check Valve	Ductile Iron	Ductile Iron	4-3/4”
ME981-10	1-1/4” FNPT Flow Indicating Check Valve	Ductile Iron	Ductile Iron	5-3/8”
ME981-16	2” FNPT Flow Indicating Check Valve	Ductile Iron	Cast Steel	6-7/8”
ME981-24	3” FNPT Flow Indicating Check Valve	Ductile Iron	Ductile Iron	9-5/8”
ME982-10	1-1/4” FNPT Non-Indicating Check Valve	Ductile Iron	Ductile Iron	5-3/8”
ME982-16	2” FNPT Non-Indicating Check Valve	Ductile Iron	Cast Steel	6-7/8”
ME982-24	3” FNPT Non-Indicating Check Valve	Ductile Iron	Ductile Iron	9-5/8”
ME981-16-2F	2” - 300 lb. Flange Flow Indicating Check Valve	Ductile Iron	Ductile Iron	11-7/8”
ME981-24-3F	3” - 300 lb. Flange Flow Indicating Check Valve	Ductile Iron	Ductile Iron	14-1/8”
ME981-24-4F	4” - 300 lb. Flange Flow Indicating Check Valve	Ductile Iron	Ductile Iron	14-1/4”
ME982-16-2F	2” - 300 lb. Flange Flow Non-Indicating Check Valve	Ductile Iron	Ductile Iron	11-7/8”
ME982-24-3F	3” - 300 lb. Flange Flow Non-Indicating Check Valve	Ductile Iron	Ductile Iron	14-1/8”
ME982-24-4F	4” - 300 lb. Flange Flow Non-Indicating Check Valve	Ductile Iron	Ductile Iron	14-1/4”

EXCELA-FLANGE™ SIGHT FLOW SWING CHECK VALVE

The ME874S-16 Sight Flow Swing Check Valves feature our new modular ***Excela-Flange™*** 4-Bolt Inlet/Outlet design that can be easily adapted to both NPT thread or socket weld type A companion flanges (ME840 & ME841 Series) from 1-1/4" - 2" in diameter making it universal to piping sizes within this range. MEC Sight flow valves are designed with the most durable, impact resistant glass in the industry. This sight flow valve allows bulk plant operators an inspection point to visually monitor liquid flow conditions which allows the operator to achieve maximum pump efficiency. They also features a soft seat swing away check valve which limits flow to one direction. This check valve is usually closed until pressure activates the valve when flow is directed into piping or containers causing the valve to open. When flow stops or reverses, the check returns to the closed position minimizing product loss in the event of a line failure.

Installing a sight flow valve upstream of a plant pump, allows the operator to observe product flow and make pump adjustments for maximum flow without the liquid forming vapor bubbles causing uneven flow patterns and significantly reducing efficiency. Additionally, installing a sight flow valve at the loading arm of a plant allows the operator to maintain consistent observation of pump conditions. This valve is suitable for stationary and mobile applications. Installing this valve on a compressor operation will provide a visual indication of when the tank car or transport is emptied of liquid and ready for vapor recovery.



FEATURES

- 4 bolt universal inlet / outlet flanges
- Specially formulated, large diameter, impact resistant sight glass with O-ring packing seals for maximum safety and visibility
- Durable ductile iron body with cadmium plated finish for maximum durability
- All stainless steel internal components for maximum corrosion resistance
- Integral swing check valve with soft seat to promote maximum product flow and minimize product loss in the event of a line failure
- Standard nitrile seat, available in FKM or FFKM
- For use with all Type A (ME840 & ME841 Series) companion flanges

Part No.*	Description	Inlet	Outlet	Mating Flange Type	Weight (lbs.)
ME874S-16	2" - 4 Bolt Double Flange Sight Flow Valve	4 Bolt Flange Type B	4 Bolt Flange Type B	A	16.0

* To order no check add "NC" after the prefix part number - i.e. ME874SNC-16
To order FFKM add "K" after the prefix part number - i.e. ME874SK-16
To order FKM add "V" after the prefix part number - i.e. ME874SV-16

BUILT & TESTED
IN THE USA

SIGHT FLOW SWING CHECK VALVE

Designed with the most durable, impact resistant glass in the industry. This sight flow valve allows bulk plant operators an inspection point to visually monitor liquid flow conditions which allows the operator to achieve maximum pump efficiency. Also features a soft seat swing away check valve which limits flow to one direction. This check valve is usually closed until pressure activates the valve when flow is directed into piping or containers causing the valve to open. When flow stops or reverses, the check returns to the closed position minimizing product loss in the event of a line failure.

Installing a sight flow valve upstream of a plant pump, allows the operator to observe product flow and make pump adjustments for maximum flow without the liquid forming vapor bubbles causing uneven flow patterns and significantly reducing efficiency. Additionally, installing a sight flow valve at the loading arm of a plant allows the operator to maintain consistent observation of pump conditions. This valve is suitable for stationary and mobile applications.

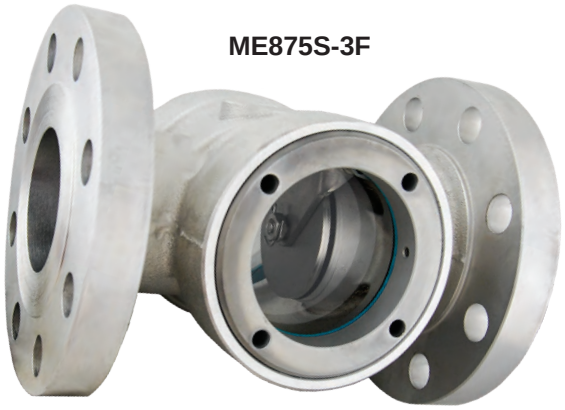
Installing this valve on a compressor operation will provide a visual indication of when the tank car or transport is emptied of liquid and ready for vapor recovery.

FEATURES

- Specially formulated, large diameter, impact resistant sight glass with O-ring packing seals for maximum safety and visibility
- Durable ductile iron body with cadmium plated finish for maximum durability
- All stainless steel internal components for maximum corrosion resistance
- Integral swing check valve with soft seat to promote maximum product flow and minimize product loss in the event of a line failure
- Standard nitrile seat, available in FKM or Neoprene
- Hexagon cast ends for ease of installation

ME875S-16

ME875S-3F



Part No.(1)	Inlet & Outlet FNPT	Seal Material	OAL
ME875S-16	2” FNPT	Nitrile	5-3/4”
ME875SN-16		Neoprene	5-3/4”
ME875SV-16		FKM	5-3/4”
ME875S-24	3” FNPT	Nitrile	7-3/8”
ME875SN-24		Neoprene	7-3/8”
ME875SV-24		FKM	7-3/8”
ME875S-3F (2)	3”-300LB Flange	Nitrile	10-1/2”
ME875SN-3F (2)		Neoprene	10-1/2”
ME875SV-3F (2)		FKM	10-1/2”

BUILT & TESTED IN THE USA

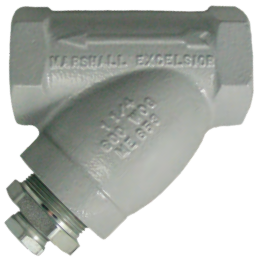
(1)To order no check add “NC” after the prefix part number - i.e. ME875SNC-16
(2) Not a UL Listed Configuration

Y-STRAINERS

Designed for flow in one direction to guard against debris in pipelines that could cause damage to pumps, valves or other equipment. Can be installed horizontally or vertically. They are available in three stainless steel mesh sizes. The mesh size equals the number of holes per square inch i.e. the smaller the number the larger the holes.

A shutoff valve installed on the filter basket outlet allows for convenient blow-off cleaning of Y-Strainer while under pressure. The ME656S Series Ductile Iron Strainers are available in 3" or 4" -300LB ANSI flange sizes with threaded blow-off ports. All strainers come standard with 40 mesh stainless steel reinforced screens for maximum durability and protection of downstream equipment. Plugs for the threaded blow-offs are available at additional cost.*

ME653SP



ME655S

ME656S

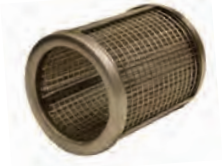
ME656S-3F

FEATURES

- Durable ductile iron body with automotive grade powder coat finish
- Rated 600 PSI / WOG
- Optional factory installed plug*

ME656S-3F-901

ME656S-3F
Replacement Screen



See replacement parts section

Part No.*			Blow-Off Plug Size	Inlet & Outlet FNPT
20 Mesh Screen	40 Mesh Screen	80 Mesh Screen		
ME650S/20	**ME650S**	**ME650S/80**	1/2"	1/2"
ME651S/20	**ME651S**	**ME651S/80**	1/2"	3/4"
ME652S/20	**ME652S**	**ME652S/80**	3/4"	1"
ME653S/20	**ME653S**	**ME653S/80**	3/4"	1-1/4"
–	**ME654S**	–	1"	1-1/2"
ME655S/20	**ME655S**	**ME655S/80**	1"	2"
	ME655S-2F	–	1"	2"-300 LB Flange
–	**ME656S**	**ME656S/80**	1-1/4"	3"
–	**ME656S-3F**	–	1-1/4"	3"-300 LB Flange
–	**ME656S-4F**	–	1-1/4"	4"-300 LB Flange

* To add a factory installed plug use a "P" after the prefix number i.e. ME650SP/20

BUILT & TESTED
IN THE USA

LPG/NH_3 HIGH CAPACITY DISPENSING FILTER

The new ME680 Dispenser Filter is designed to remove 99.9% of solid contaminants. These contaminants can be introduced into the system during the refining process from holding tanks as well as the delivery trucks used to transport the liquid fuel. This filter is used to protect critical engine components such as fuel injectors on propane powered vehicles which include: shuttle buses, delivery trucks and vans, taxi cabs, lift trucks, as well as turf maintenance vehicles.

The filter housing is constructed from high strength forged aluminum. The entire housing is powder coated for long term outdoor use. There are two internal primary seals inside the filter element used to prevent contaminants from entering into the downstream. There is a 1" hex nut located on the bottom of the bowl for easy removal and maintenance.

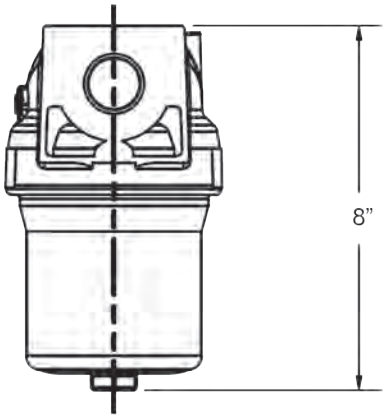
The element is constructed of pleated micro glass media, reinforced with an epoxy coated wire for added strength and corrosion resistance. This pleated element design offers a higher contaminant-loading capacity and offers a lower pressure drop than other standard elements. The element also has a pleated steel inner retainer for additional strength and durability.

SPECIFICATIONS:

Port Size: 1" NPT
Max Pressure: 350 PSIG
Max. Temp: 175° F (79° C)

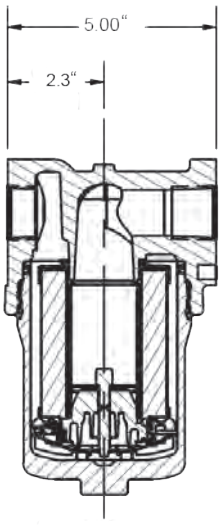
Head Material: Aluminum
Internal Components: Stainless Steel
Bowl: Aluminum
Seals: Nitrile

Weight: 5.5 lbs
Length: 8.07"
Width: 5.00"



FEATURES

- High-grade forged aluminum body construction
- Durable powder coated exterior
- 5/16-18 UNC tapped mounting holes for easy installation
- 1" hex nut on bottom of bowl for easy maintenance
- Pleated element offers higher contaminant loading capacity and lower pressure drop
- 35 GPM/LPG @ 6.2 PSI pressure differential
- Removes solid contaminants (20 micron rated element)
- 1" FNPT inlet/outlet connections
- 350 PSI maximum pressure
- 1/4" FNPT plugged ports both upstream and downstream of the filter element

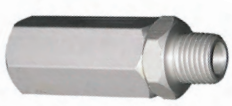


Part No.	Description	Inlet	Outlet	Filter Element	Flow Rate *
ME680-8	High Capacity Dispensing Filter	1" FNPT	1" FNPT	20 micron	35 GPM/LPG
Inline Filters					
Part No.	Description				
ME204	1/4”MNPTx1/4”FNPT Brass Gauge Dampener / Filter				
ME709	1/4”FNPT x 1/4”MNPT Inline Fuel Filter				

BUILT & TESTED IN THE USA

ME680-8-ERK
ME680-8
Replacement Filter Elememt
(see replacement parts section)

ME204



ME709

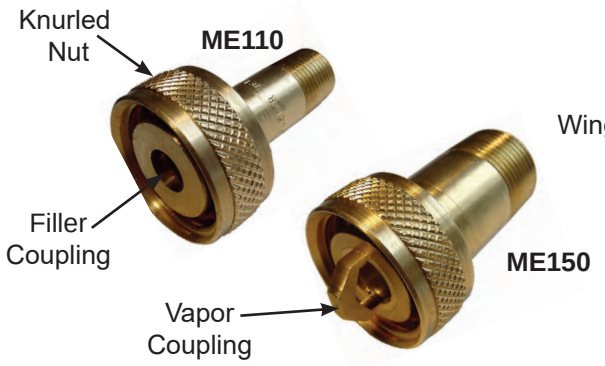
FILLER & VAPOR COUPLINGS

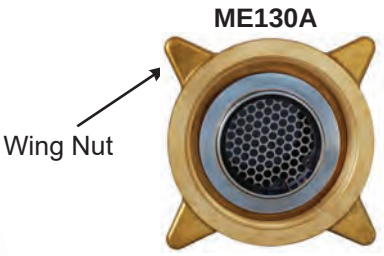
These couplings are used as connections between the hose and transfer valve. The filler coupling is designed to provide different connections for the end of a hose (inlet) or an angle, globe or quick acting valve (outlet) when transferring liquid. The vapor coupling is designed to be used with valves having an upper check mechanism. The nose piece on the vapor coupling opens the check valve allowing vapor equalization.

The extended style has a stainless steel female Acme nut insert cast into the heavy duty aluminum handle. All filler and vapor couplings come with a factory installed retaining ring unless noted. The retaining ring limits the travel of the handle or nut during disconnect reducing spin-offs and promoting proper venting of the captured product.

ME634-24

c UL us





Service Type	Part No.							F. Acme	MNPT
	Brass		Brass Wing Nut/Steel Nipple	Steel					
	Knurled Nut	Wing Nut		Knurled Nut	Wing Nut	Extended Handle			
						Standard	Fluted		
Liquid	ME100	–	–	–	–	–	–	1-1/4”	3/8”
	ME101	–	–	–	–	–	–	1-1/4”	1/2”
	ME110	ME110C	–	–	–	ME635-4	ME635G-4	1-3/4”	1/2”
	ME111	ME111C	–	ME111S	ME111SC	ME635-6	ME635G-6	1-3/4”	3/4”
	–	–	–	–	ME113SC	–	–	1-3/4”	3/4” FNPT
	ME112	ME112C	–	ME112S	ME112SC	ME635-8	ME635G-8	1-3/4”	1”
	–	–	–	–	–	ME635-10	ME635G-10	1-3/4”	1-1/4”
	–	ME120 (1) ME120WR	ME120S (1) ME120SWR	–	ME121S (1) ME121SWR	–	–	2-1/4”	1-1/4”
	–	ME130B** ME130BWR	ME130 (1) ME130A(2) ME130WR	–	ME130S (1) ME130SWR	–	–	3-1/4”	2”
	–	–	ME664-24 (Bronze/ Steel)	–	ME634-24	–	–	4-1/4”	3”
Vapor	ME140	–	–	–	–	–	–	1-1/4”	3/8”
	ME141	–	–	ME141S	–	–	ME645G-4	1-1/4”	1/2”
	–	–	–	–	–	–	ME645G-6	1-1/4”	3/4”
	–	–	–	–	–	ME646-4	ME646G-4	1-3/4”	1/2”
	ME150	ME150C	–	ME150S	ME150SC	ME646-6	ME646G-6	1-3/4”	3/4”
	ME151	ME151C	–	ME151S	ME151SC	ME646-8	ME646G-8	1-3/4”	1”
	–	–	–	–	–	ME646-10	ME646G-10	1-3/4”	1-1/4”
	–	–	ME160	–	ME160S	–	–	2-1/4”	1-1/4”

(1) Does not include a factory installed retaining ring
(2) Includes factory installed filter screen

NOTE: Pressure rated for 400 WOG
ME634-24 & ME664-24 Non-UL Rated

EXTENDED STYLES

ME645G Series
Stainless Steel

ME635 Series
Heavy Duty Aluminum Standard Handle

ME635G Series
Heavy Duty Aluminum Fluted Handle

BUILT & TESTED IN THE USA

3-1/4" EXTENDED ACME ADAPTER
W/ INTEGRATED RELIEF AND BLOWDOWN PORTS

The **ME503JT Series Acme adapters** (available in brass or steel construction) feature an extended body designed to allow blowdown line and hydrostatic relief installation directly from the fitting in transport inlet/outlet plumbing installations.

The Extended Acme Adapter is 2" MNPT x 3-1/4" Male Acme, featuring both 1/4" FNPT and 1/2" FNPT side auxiliary ports, allowing direct connection of the blowdown line and installation of a hydrostatic pressure relief valve (MEH225 Series) or bleed valve (MEJ400 Series).

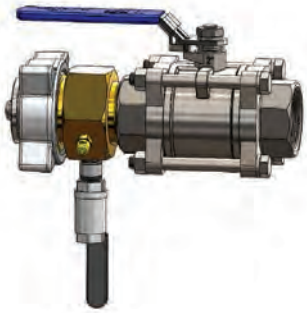
ME503JT-16

FEATURES

- Durable brass or steel construction
- Adapters include Nitrile Acme gasket
- Rated 400 WOG
- Reduces amount of components for the blowdown line set-up
- Reduces potential leak points
- Eliminates the need for welding
- Reduced assembly time
- Reduces weight on the transport truck

CURRENT ASSEMBLY PROCESS

ME503JT-16 ASSEMBLY PROCESS



CURRENT BLOWDOWN ASSEMBLY PROCESS

ME503JT-16 ASSEMBLY PROCESS

Part No.	Description	Aux. Hole #1	Aux. Hole #2	Material	Application	
					LPG	NH3
ME503JT-16	3-1/4" M. Acme x 2" MNPT Adapter w/ extended body	1/4" NPT	1/2" NPT	Brass	Y	N
ME503SJT-16				Steel	Y	Y

Accessories	
Part No.	**Description**
MEH225	Hydrostatic Relief Valve - Brass
MEH225SS	Hydrostatic Relief Valve - Stainless Steel
MEJ400	Liquid Level Vent Valve - Brass
MEJ400/72	Low Emission Liquid Level Vent Valve #72 Orifice - Brass
MEJ400SC	Self Cleaning Liquid Level Vent Valve - Brass
MEJ402S	Liquid Level Vent Valve w/ T-Handle - Stainless Steel

ACME ADAPTERS

Part No.			M. Acme	FNPT	MNPT
Brass		Steel			
No Screen	Factory Installed Screen				
ME498-4/2	–	–	1-1/4”	1/4”	1/2” (1)
ME498-6/3	–	–	1-1/4”	3/8”	3/4” (1)
ME192	–	–	1-1/4”	1/2”	–
ME193	–	–	1-1/4”	3/4”	–
ME210	–	–	1-3/4”	1/4”	–
ME211	–	–	1-3/4”	3/8”	–
ME212	–	–	1-3/4”	1/2”	–
ME213	–	ME213S	1-3/4”	3/4”	–
ME214	–	ME214S	1-3/4”	1”	–
ME502-12/8	–	–	2-1/4”	1”	1-1/2” (1)
ME502-16/10	–	ME502S-16/10	2-1/4”	1-1/4”	2” (1)
ME502-16/12	–	–	2-1/4”	1-1/2”	2” (1)
ME250	ME250A	–	3-1/4”	1-1/4”	–
ME251	ME251A	–	3-1/4”	1-1/2”	–
ME252-16	ME252A-16	ME252S-16	3-1/4”	2”	–
ME508-24	ME508A-24	ME508S-24	3-1/4”	3”	–

(1) Male Thread Outside & Female Thread Inside
NOTE: Pressure rated for 400 WOG

ME192

ME212

ME252S-16

c UL us

ME503J-16

1/4” FNPT with Vent Hole & #54 Orifice

ME503JB-16

Brass Vent Valve

ME503JS-16

Stainless Steel Vent Valve

Part No.						M. Acme	FNPT/ MNPT
Brass			Steel				
Factory Machined 1/4” FNPT with Vent Hole	Factory Installed Brass Vent Valve	Factory Installed Stain-less Steel Vent Valve	Factory Machined 1/4” FNPT with Vent Hole	Factory Installed Brass Vent Valve	Factory Installed Stain-less Steel Vent Valve		
ME252J-16	ME252JB-16	ME252JS-16	ME252SJ-16	ME252SJB-16	ME252SJS-16	3-1/4”	2” FNPT
ME503J-16	ME503JB-16	ME503JS-16	ME503SJ-16	ME503SJB-16	ME503SJS-16	3-1/4”	2” MNPT

NOTE: To add a factory installed screen use an “A” after the prefix number i.e. ME252AJB-16
Pressure rated for 400 WOG

Part No.		M. Acme	Female UNC Thread
Brass	Steel		
ME209	ME209S	1-3/4”	3/8”-16

NOTE: To hold hose end valve secure when not in use

BUILT & TESTED IN THE USA

Part No.					M. Acme	MNPT	FNPT
Brass			Steel				
No Screen	1/8" FNPT Side Port	Factory Installed Screen	No Screen	1/8" FNPT Side Port			
ME498-4/2	–	–	–	–	1-1/4"	1/2"	1/4" (1)
ME498-6/3	–	–	–	–	1-1/4"	3/4"	3/8" (1)
–	–	–	ME520S-8	–	1-1/4"	1"	–
–	–	–	ME521S-4	–	1-3/4"	1/2"	–
ME215	–	–	ME215S ME215SS (3)	–	1-3/4"	3/4"	–
ME216	–	–	ME216S	–	1-3/4"	1"	–
ME217	ME217J	ME217A	ME217S	ME217SJ	1-3/4"	1-1/4"	–
ME233	ME233J	–	ME233S	ME233SJ	2-1/4"	1-1/4"	–
ME502-12/8	–	–	–	–	2-1/4"	1-1/2"	1" (1)
ME502-16/10	–	–	ME502S-16/10	–	2-1/4"	2"	1-1/4" (1)
ME502-16/12	–	–	–	–	2-1/4"	2"	1-1/2" (1)
ME503-16	–	ME503A-16	ME503S-16	–	3-1/4"	2"	–
ME503-20	–	ME503A-20	–	–	3-1/4"	2-1/2"	–
ME262	–	ME262A	ME262S	–	3-1/4"	3"	–
ME504-24 (2)			ME524-24 (2)		4-1/4"	3"	–

(1) Male Thread Outside & Female Thread Inside
(2) Not a UL Listed Configuration
(3) "SS" Indicated Stainless Steel

NOTE: Pressure rated for 400 WOG

ME215S

Acme Adapter with Screen

ME233

ME524-24

c UL us

MEP502

MEP503K Installed
(ME503-16 not included)

MEP503

BUILT & TESTED IN THE USA

Part No.	Description	Screen Material
MEP502	1-3/4" M. Acme x 1-3/4" F. Acme Conical Filter Brass Adapter	Stainless Steel
MEP503	Conical **Filter Screen only** for 3-1/4" M Acme Adapters - 30 Mesh	
MEP503K	Conical Filter **Screen and Retainer** for 3-1/4" M Acme Adapters - 30 Mesh	

Part No.		M. Acme	M. Acme
Brass	Steel		
ME270	–	1-1/4"	1-1/4"
ME273	ME273S	1-3/4"	1-3/4"
ME275	ME275S	2-1/4"	2-1/4"
ME277	ME277S	3-1/4"	3-1/4"

ACME REDUCER COUPLINGS

ME442

c UL us

ME613
Bronze/Brass

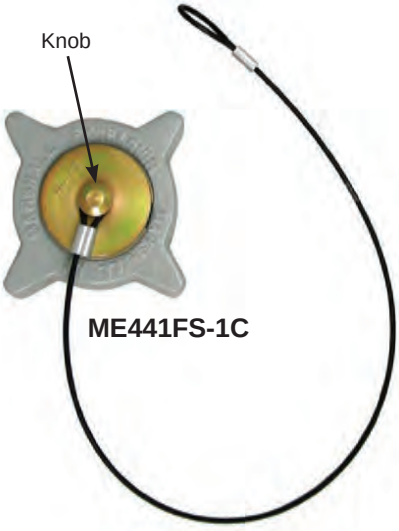
ME612S

c UL us

Part No.		F. Acme	M. Acme
Brass	Steel		
ME611	ME611S	2-1/4"	1-3/4"
ME612	ME612S	3-1/4"	1-3/4"
ME614	ME614S	3-1/4"	2-1/4"
ME442	ME442S	3-1/4"	1-1/4" FNPT
ME613 (1)	ME623 (1)	4-1/4"	3-1/4"

(1) Not a UL Listed Configuration
NOTE: Pressure rated for 400 WOG

ACME CAPS



c UL us

Part No.				F. Acme	Style	Cable Only
Brass		Steel				
Cap Only	Cap with Cable	Cap Only	Cap with Cable			
ME229	–	ME229S	–	1-3/4”	Pin Hole	–
ME229F	ME229F-1C	ME229FS	ME229FS-1C	1-3/4”	Knob	MEP168
ME431F	ME431F-1C	ME431FS	ME431FS-1C	2-1/4”	Knob	MEP168
ME431R	–	–	–	2-1/4”	Tapped Hole	–
ME441F	ME441F-1C	ME441FS	ME441FS-1C	3-1/4”	Knob	MEP168
ME441R	–	ME441RS	–	3-1/4”	Tapped Hole	–
–	ME605-34 (2)	–	ME625-34 (2)	4-1/4”	Knob	MEP168
NOTE: Red and Yellow versions available upon request Pressure rated for 400 WOG						

(1) MEP147 ring fits over 3/4” MNPT—MEP148 ring fits over 1-1/4”
(2) Not a UL Listed Configuration

ME106

Part No.		F. Acme	Style	Accessory
Plastic				Chain Only (1)
Cap Only	Cap with Chain			
ME108	ME108-1	1-1/4”	Pin Hole	MEP147
ME109 ME109-NH3	ME109-1 ME109-NH3-1	1-3/4”	Pin Hole	MEP148
ME106	ME106-1	3-1/4”	Pin Hole	–

(1) MEP147 ring fits over 3/4” MNPT—MEP148 ring fits over 1-1/4” MNPT

NOTE: Plastic caps are not for pressure - containing applications

ME109-NH3

BUILT & TESTED
IN THE USA

ACME CAPS WITH FLANGE

The flange allows for easy operation of pneumatic or proximity interlock switches which control the safety systems of transport vehicles. The stainless steel flange is flush mounted to the Acme cap.

ME441FS8-1C

ME441F8

BUILT & TESTED IN THE USA

c UL us

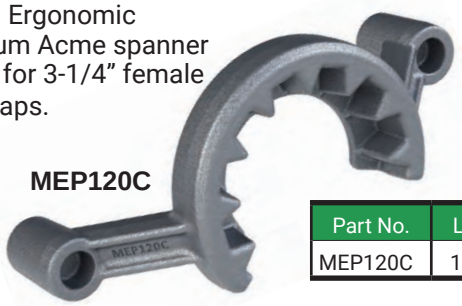
Part No.				F. Acme	Style	Flange Diameter	Cable Only
Brass		Steel					
Cap with Flange	Cap with Flange & Cable	Cap with Flange	Cap with Flange & Cable				
ME229F5	ME229F5-1C	ME229FS5	ME229FS5-1C	1-3/4”	Knob	5”	MEP168
ME441F8	ME441F8-1C	ME441FS8	ME441FS8-1C	3-1/4”	Knob	8”	MEP168
ME441R8	–	–	–	3-1/4”	Tapped Hole	8”	MEP168

NOTE: Pressure rated for 400 WOG

HEAVY DUTY ACME SPANNER WRENCHES

EZ-Turn Ergonomic Aluminum Acme spanner wrench for 3-1/4” female Acme caps.

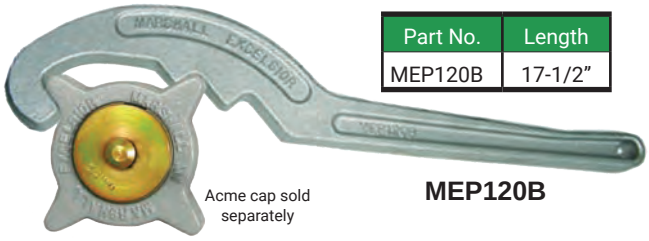
MEP120C



Part No.	Length
MEP120C	13-3/4”

Aluminum Acme spanner wrench for 1-3/4”, 2-1/4”, 3-1/4” and 4-1/4” female Acme caps.

Part No.	Length
MEP120B	17-1/2”



Acme cap sold separately

MEP120B

ACME DUST PLUGS

Part No.									M. Acme
Aluminum			Brass **			Plastic ***			
Plug Only	Chain Only*	Plug with Chain	Plug Only	Chain Only*	Plug with Chain	Plug Only	Chain Only*	Plug with Chain	
–	–	–	ME178B	MEP148	ME178B-1	ME178	MEP147	ME178-1	1-1/4”
ME239	MEP148	ME239-1	ME179B	MEP148	ME179B-1	ME179	MEP148	ME179-1	1-3/4”
–	–	–	ME180B	MEP167	ME180B-1	ME180	MEP148	ME180-1	2-1/4”
–	–	–	ME181B	MEP167	ME181B-1	ME181	MEP183	ME181-1	3-1/4”

* MEP147 ring fits over 3/4” MNPT—MEP148 ring fits over 1-1/4” MNPT
** Brass plugs pressure rated for 400 WOG
*** Plastic plugs are not for pressure rated applications

ME181B

ME179

c UL us

WHEEL CHOCK

Designed with a “Double Grip” handle for easy carrying and dual traction grips for the road and tire. The cast aluminum construction makes the wheel chock lightweight while still able to withstand the toughest environments. Turn the wheel chock upside down and the points on top of the wheel chock will dig into the snow, ice and mud to prevent sliding. Durable safety yellow powder coat finish.

Part No.	Height	Length	Width
ME200	7”	10”	7”

WHEEL CHOCK BRACKET

Designed to provide a durable and convenient receptacle to store wheel chocks during over-the-road transit. Durable aluminum construction and molded inserts prevent damage to wheel chocks. For installations that require additional mounting clearance a standoff extension kit is available.

ME200BK

Part No.	Height	Length	Depth	Wheel Chocks Included	Accessory
					Standoff Extension Kit
ME200B	7-3/4”	20”	7”	No	ME200EXT
ME200BK	9-3/4”	20”	8”	Yes	

UNIVERSAL UTILITY BRACKET

Provides a safe and secure method to mount and retain hand tools such as shovels, picks, brooms or other equipment for bobtail or utility vehicles during over the road transit.

FEATURES

- Cast aluminum body for maximum durability
- Vinyl coated for maximum security
- All stainless steel spring and mounting hardware

Part No.	Description
MEP082	Universal Spring Loaded Utility Bracket

MEP082

BUILT & TESTED IN THE USA

CONTAINER THERMOMETERS

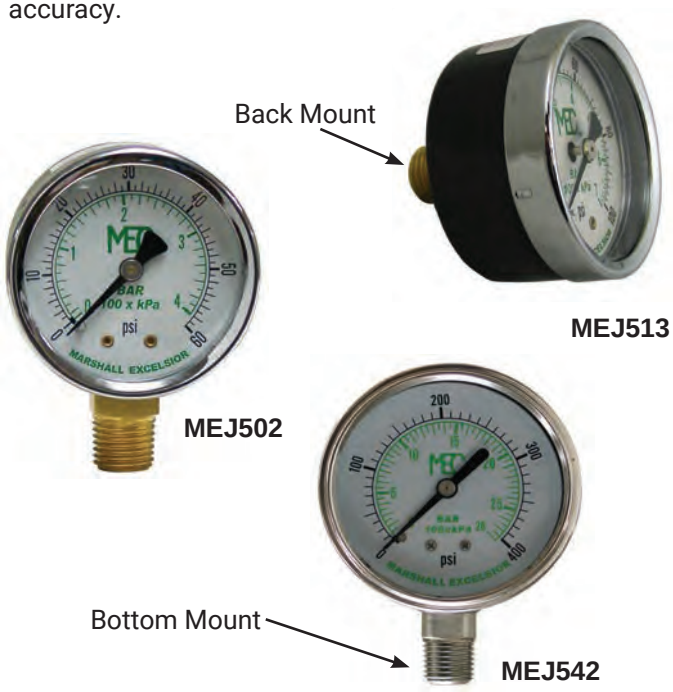
Designed for use in storage tanks, nurse tanks, bobtail and transport trucks. These stainless steel, dust and water proof thermometers feature a 1/2" MNPT connection with a temperature range from –40° to +120° Fahrenheit. Accuracy +/- 1 percent full range.

Part No.	Dial Diameter	Probe Length
MEJ700	2"	4"
MEJ701	2"	6"
MEJ702	3"	4"
MEJ703	3"	6"

PRESSURE GAUGES

Designed to measure the pressure of gas or liquid. Marshall Excelsior offers two types of gauges, dry and glycerin filled. The dry gauge is the most commonly used and least expensive gauge. With a glycerin filled gauge, the life of the gauge is extended, vibration of the pointer is minimized and condensation, caused by humid air inside the gauge, is eliminated.

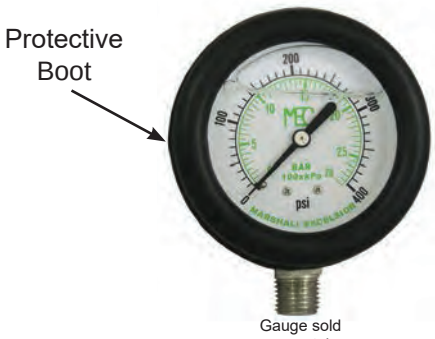
To determine the correct gauge, environment along with normal operating system pressure must be considered. The pressure range of the gauge should be twice the normal system pressure to maximize gauge life and accuracy.



Part No.		PSIG	Dial Size	Fill Type
1/4" MNPT Bottom Mount	1/4" MNPT Back Mount			
MEJ520	–	0-5	2-1/2"	Dry
MEJ500	**MEJ510**	0-15	2"	Dry
MEJ603LP-01(1)	–	0-15	2-1/2"	Glycerin
MEJ501	**MEJ511**	0-30	2"	Dry
ME10BTK-04	–	0-30	2-1/2"	Glycerin
ME50ECO-2	–	0-35" WC	2-1/2"	Dry
MEJ502	**MEJ512**	0-60	2"	Dry
MEJ503	**MEJ513**	0-100	2"	Dry
MEJ504	–	0-160	2"	Dry
MEJ505	–	0-200	2"	Dry
MEJ600-02	**MEJ516**	0-300	2"	Dry
MEJ603HP-01(1)	–	0-300	2-1/2"	Glycerin
MEJ580 (3)	–	0-300	4"	Dry
MEJ542 (2)	–	0-400	2-1/2"	Glycerin
–	**MEJ524** (1)	0-400	2-1/2"	Glycerin
MEJ552 (1)	**MEJ526** (2)	0-400	2-1/2"	Glycerin

(1) Brass Pipe Thread; Stainless Steel Bezel
(2) Stainless Steel Gauge
(3) Plated Steel Gauge

PRESSURE GAUGE PROTECTIVE BOOT



Gauge sold separately

Designed to fit over the pressure gauge dial to extend the life and accuracy of dry and liquid pressure gauges. This boot helps protect the dry pressure gauge's fragile internal components and helps prevent dents on liquid pressure gauges which cause the gauge to leak.

Part No.	Fits
MEJ2.5GB	2-1/2" Dial, Bottom Mount Pressure Gauge

PRESSURE GAUGE SNUBBERS

Designed for a pressure gauge to be threaded into the outlet of the snubber. The snubber will reduce pressure fluctuations that can over pressurize or damage the gauge while maintaining a quick response time and a steady reading.

Part No.	Material	Style	Inlet (MNPT)	Outlet (FNPT)
ME202	Brass	#54 Orifice	1/4"	1/4"
ME202SS	Stainless Steel	#54 Orifice	1/4"	1/4"
ME204	Brass	Sintered Metal Filter Disc	1/4"	1/4"

ME202SS

ME204

THERMAL FUSE PLUGS

MEC fuse plugs are designed to release when exposed to fire ranging from 212-250° F. Ideal for air controlled remote release air operated actuator systems.

Part No.	NTP	Material	Hex	OAL
ME205-013	1/8" MPT	Brass	7/16"	.5906"
ME206-09	3/8" MPT	Brass	3/4"	.75"

ME205-013

SERVICEMAN'S REPLACEMENT SEAL KIT

Designed to provide a convenient storage system for all common gaskets and O-rings. Perfect for dispenser cabinets or bobtail and transport drivers.

FEATURES

- Durable ABS plastic container with storage latch
- Preformed insert with individual spaces for each gasket/O-ring size
- Labeled with each gasket/O-ring size and part number for easy identification and reorder purposes
- All gaskets/O-rings manufactured from UL approved compounds

MEW1

MEW1—Serviceman's Replacement Seal Kit Includes:	Qty	Replacement Part No.
1-1/4" Acme Motor Fuel Flat Gasket	9	MEW4
1-1/4" Acme Flat Gasket	10	MEW3
1-3/4" Acme Flat Gasket	10	MEW2
2-1/4" Acme Flat Gasket	10	MEW5
3-1/4" Acme Flat Gasket	10	MEW6
Male Motor Fuel Connector O-ring	12	ME220M-02
POL O-ring	12	568-110-01

MEW1
Layout

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IN THE USA

HOSE REEL CONTROL SWITCH COVERS

These covers are intended to protect Hannay® Hose Reel Control Switches from moisture and/or other contaminants during over-the-road transit. The MEP-GMC1 is specifically designed to fit Hannay® Guidemaster® control switches while the MEP-RDC1 is specifically designed to fit Hannay® red DOT EPS style control switches. Both of these covers fit snuggly over the control to help prevent damage due to moisture or other contaminants thereby increasing the longevity of the control switch.

FEATURES

- Made with durable UV stable black low temperature EPDM material
- Includes security lanyard to help prevent loss of the cap
- Fits Hannay® Guidemaster® and red DOT EPS switches
- Control switch can be operated through cover without removing

BUILT & TESTED IN THE USA

MEP-GMC1

Part No.	Description	Material
MEP-GMC1	Hose Reel Control Switch Cover for Guidemaster® Control Arm	Black EPDM
MEP-RDC1	Hose Reel Control Switch Cover for Red DOT EPS	Black EPDM

"Hannay®" and "Guidemaster®" are trademarks of Hannay Reels

MEP-RDC1

NEEDLE VALVES

Intended for application where precise control of gas output is required. These precision machined valves offer a wide range of adjustment without stem galling. Perfect for isolating pressure gauges from bulk storage containers or upstream shutoff valves for torches and/ or outdoor burner applications.

FEATURES

- Available in brass & stainless steel construction
- Tapered valve body seat & stem for precision accuracy
- Designed for bi-directional flow

BUILT & TESTED IN THE USA

ME831

ME831SS

Part No.	Description	Material
ME831	Needle Valve 1/4" MNPT x 1/4" FNPT	Brass
ME831SS	Needle Valve 1/4" MNPT x 1/4" FNPT	Stainless Steel

VENT VALVES

Marshall Excelsior is the only manufacturer in the industry that offers three types of vent valves—Low Emission, Self-Cleaning Low Emission, and Standard Vent Valves. All the vent valves below are designed to minimize loss of product while allowing the operator to effectively bleed down connections and detect liquid levels while filling containers. Vent valves provide an effective means to verify valves have closed in the transfer system when installed into the downstream auxiliary port on the Marshall Excelsior globe and angle valves. Opening the vent valve until liquid or vapor stops venting indicates it is safe to disconnect.

All brass versions have knurled stems that completely unscrew from the valve making the stems replaceable. The stainless steel version has a t-handle stem that is non-removable.

The Low Emission Vent Valve and the Self-Cleaning Low Emission Vent Valve reduce emissions by 70 Percent during normal container filling operations. The Self-Cleaning Low Emission Vent Valve cleans out the orifice hole each time it is operated. The hole is cleaned out with a #54 orifice drill that reams the valve's orifice hole each time the adjusting screw is loosened or tightened, eliminating nuisance orifice clogging. The reduced venting emissions is achieved by forcing product to pass between the #54 orifice hole and the flutes of the captured self-cleaning apparatus. The self-cleaning replacement screw (MEJ401SC) is compatible with all existing standard vent valve bodies allowing a standard vent valve to be converted into a self-cleaning low emission vent valve without reinstalling the valve body. The Standard Vent Valve has a #54 orifice with no self-cleaning apparatus.

Type	Part No.		
	Brass	Brass Replacement Stems	Stainless Steel
Low Emission #72 Orifice	MEJ400/72	MEJ401	–
Self-Cleaning Low Emission #54 Orifice	MEJ400SC	MEJ401SC	–
Standard #54 Orifice	MEJ400	MEJ401 MEJ401SC	MEJ402S (1)
Standard #54 Orifice	MEJ400C (1)	–	–
90° Elbow w/ Hydrostatic Relief	MEJ602H (2)	–	–
90° Elbow 1/4" MPT x 1/4" M. Flare	MEJ606	MEJ400 MEJ401 MEJ401SC	–
1/4" MNPT X 1/4" M. Flare	MES-PVE10ARF (1)	–	–

(1) Includes captured stem
(2) Factory installed hydrostatic relief valve

FEATURES

- 70% emission reduction with our Self-Cleaning and Low Emission vent valves
- 1/4" MNPT Connection
- Available with dip tubes. See fixed maximum liquid level gauges

MEJ400SC


MEJ401 Stem


MEJ602H


MEJ400/72
(#72 orifice)


MES-PVE10ARF

PATENT #8,025,075


MEJ402S

FIXED MAXIMUM LIQUID LEVEL GAUGES

Designed to provide a way to visually determine that a tank has reached maximum allowable fill capacity. The dip tube end of a fixed liquid level gauge should be set equal to 80% of the liquid level tank capacity and installed in the vapor space of the tank. The vent valve should be opened before filling begins during which time vapor will be discharged. Once the tank reaches maximum liquid fill capacity (80% of tank capacity), liquid will begin to discharge from the vent valve telling the operator the tank has reached maximum allowable fill capacity and the filling operation should cease immediately.

Type	Part No.					
	5.4" Tube Length Brass	5.7" Tube Length Brass	6.6" Tube Length Brass	6.9" Tube Length Brass	12" Tube Length Brass	12" Tube Length Stainless Steel
Low Emission #72 Orifice	MEJ410/72-5.4	MEJ410/72-5.7	MEJ410/72-6.6	MEJ410/72-6.9	MEJ410/72-120	–
Self-Cleaning Low Emission #54 Orifice	MEJ410SC-5.4	MEJ410SC-5.7	MEJ410SC-6.6	MEJ410SC-6.9	MEJ410SC-120	–
#54 Orifice	MEJ410-5.4	MEJ410-5.7	MEJ410-6.6	MEJ410-6.9	MEJ410-120	MEJ402S-120 (2)
Captured Stem #54 Orifice	MEJ410C-5.4 (1)	MEJ410C-5.7	MEJ410C-6.6	MEJ410C-6.9	MEJ410C-120	–

(1) Includes captured stem

BUILT & TESTED
IN THE USA

LIQUID TRANSFER VALVES

Designed to provide a safe means to transfer liquid or vapor from a storage container. ME449 Series valves can be directly installed for full time use in the liquid or vapor port of the storage container when configured with an integral excess flow check (ME449EXS Series, ME449X/19.5), or when utilized in conjunction with a Liquid Withdrawal Tank Valve with integral excess flow protection (ME460 or ME462 Series) and the appropriate Liquid Withdrawal Adapter (ME458 Series).

These valves can also be used for temporary liquid withdrawal applications such as emergency evacuations or container relocation, when utilized in conjunction with a Liquid Withdrawal Tank Valve featuring integral excess flow protection (ME460 or ME462 Series) installed directly into a container liquid withdrawal port and the appropriate Liquid Withdrawal Adapter (ME458 Series) installed onto the ME449 Series Liquid Withdrawal Transfer Valve connected to the delivery truck or service truck transfer hose.

Additionally, these valves can be used for a wide variety of other applications, including in-line use, as they meet the requirements of UL 125 – Flow Control Valves.

Liquid Transfer Shutoff Valve
ME449
ME449S

Opening Liquid Withdrawal Tank Valve

1. Slowly loosen cap to release any trapped liquid thru relief hole. Remove the cap when venting stops. In case of a leak and venting does not stop, retighten the cap and use another approved method to withdraw the liquid. When loosening the cap make sure the valve is not unthreading from the tank. Use two wrenches, if necessary, to secure the valve to the tank.
2. The Liquid Transfer Shutoff Valve must be in the open position and securely attached to the Liquid Withdrawal Adapter before connecting to the Liquid Withdrawal Tank Valve.
3. Once the Shutoff Valve Assembly is tightly attached to the Tank Valve, close the Shutoff Valve Assembly. A popping sound actuating the Tank Valve will occur while closing the Shutoff Valve Assembly allowing the flow to be controlled by the Shutoff Assembly. If the Tank Valve does not open after following steps 1-3, increase pressure downstream (Shutoff Valve side) to equalize pressure in the Tank Valve.
4. Use Marshall Excelsior Leak Detector to check for leaks between each connection.

Liquid Withdrawal Adapter
ME458
ME458S

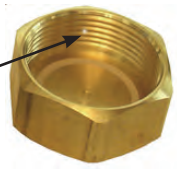
BUILT & TESTED
IN THE USA

Closing Liquid Withdrawal Tank Valve

1. To shut the Tank Valve pressure in the tank must exceed 35 psig. Close the Shutoff Valve Assembly and disconnect the hose or piping.
2. Slowly open the Shutoff Valve Assembly to release any liquid in the valve. If the tank pressure exceeds 35 psig, the gas released to the air will cause the excess flow feature to close on the Tank Valve. If the Tank Valve does not completely shut, close the Shutoff Valve Assembly immediately. The Shutoff Valve Assembly must remain connected until all the gas can be removed and the container repaired.
3. After the Tank Valve excess flow feature has closed remove the Shutoff Valve Assembly. When disconnecting the assembly make sure the Tank Valve is not unthreading from the tank. Use two wrenches, if necessary, to secure the valve to the tank. **Note: A small amount of bypass may occur through the excess flow check. Use caution when removing the Shutoff Valve Assembly.**
4. Clean the top surface of the Tank Valve and place Tank Valve Cap back onto Tank Valve ensuring cap gasket is in place. Make sure the Tank Cap is placed tightly onto the Tank Valve.

Liquid Withdrawal Tank Valve
ME462
ME462S
ME462SS
ME461 Series Cap included

Liquid Withdrawal Tank Valve Cap
ME461



NOTE: Always use an adapter between the liquid transfer valve (ME449 Series) and the liquid withdrawal valve. Extreme care must be used whenever liquid transfer is in progress. Only persons trained in the proper method of transfer should attempt this type of operation.

LIQUID TRANSFER VALVES & ADAPTERS

Designed to provide a safe means to transfer liquid or vapor from a storage container. ME449 Series valves can be directly installed for full time use in the liquid or vapor port of the storage container when configured with an integral excess flow check (ME449EXS Series, ME449X/19.5), or when utilized in conjunction with a Liquid Withdrawal Tank Valve with integral excess flow protection (ME460 or ME462 Series) and the appropriate Liquid Withdrawal Adapter (ME458 Series).

These valves can also be used for temporary liquid withdrawal applications such as emergency evacuations or container relocation, when utilized in conjunction with a Liquid Withdrawal Tank Valve featuring integral excess flow protection (ME460 or ME462 Series) installed directly into a container liquid withdrawal port and the appropriate Liquid Withdrawal Adapter (ME458 Series) installed onto the ME449 Series Liquid Withdrawal Transfer Valve connected to the delivery truck or service truck transfer hose.

Additionally, these valves can be used for a wide variety of other applications, including in-line use, as they meet the requirements of UL 125 – Flow Control Valves.

ME450

LIQUID TRANSFER VALVE FEATURES

- Double O-ring stem seal design ensures leak free operation
- Double lead stem thread ensures quick and efficient operation
- 3/4" MNPT inlet x 3/4" FNPT outlet
- Additional features for steel transfer valves
  - All stainless steel internal components
  - Durable ductile iron valve body with automotive grade powder coat finish
  - Equipped with convenient upstream and downstream 1/4" FNPT plugged ports for optional accessories

MEP449S-101
Replacement
Protective
Weather Boot

ME449EXSS/22

ME449X/19.5

TANK VALVE FEATURES

- Provides excess flow protection in the event of a downstream connection or line failure
- Safety breakaway feature leaves valve seals intact in the event of truck roll-away
- 6-14 psig closing flow pressure differential for maximum product transfer
- Fully interchangeable with all existing valve models and adapters
- Additional features for steel and stainless steel tank valves
  - Meets requirements for installation into DOT storage containers like bobtails and transports
  - Steel model features a rust inhibitor compound between the cap and body threads to prevent corrosion

ME449X-110-KIT

ME462S

Part No.	Material	Excess Flow	Closing Flow/ GPM	Accessories								
				Liquid Withdrawal Adapter 3/4" FNPT x 1-5/8" UNF		Liquid Withdrawal Tank Valve 1-5/8" UNF Male				Hydrostatic Relief Valve	Vent Valve	Excess Flow Check Valve
						3/4" MNPT	1-1/4" MNPT					
				Brass	Steel	Brass	Brass	Steel	Stainless Steel			
ME449	Brass	No	–	ME458	ME458S	ME460 (2)	ME462 (2)	–	–	MEH225 MEH25/450	MEJ400 MEJ400SC MEJ400/72 MEJ402S	ME449X-110-KIT
ME449H	Brass	No	–	ME458	ME458S	–	–	–	–	Factory Installed MEH225		
ME449S	Ductile Iron	No	–	–	ME458S	–	–	ME462S (2)	ME462SS (2)			–
ME449SS	Stainless Steel	No	–	–	ME458S	–	–	ME462S (2)	ME462SS (2)			–
ME449EXS/22	Ductile Iron	Yes	22	–	–	–	–	–	–			–
ME449EXSS/22	Stainless Steel	Yes	22									–
ME449EXS/28	Ductile Iron	Yes	28									–
ME449EXSS/28	Stainless Steel	Yes	28									–
ME449X/19.5	Brass	Yes	19.5									ME449X-110-KIT
ME450 (1)	Brass	No	–	–	–	ME601-6	ME601-10	–	–			–

(1) MEJ400 Vent Valve Factory Installed (2) Includes an excess flow feature (ME460 = 21 GPM / ME462 = 36 GPM)

BUILT & TESTED IN THE USA

WARNING: An excess flow valve will not activate if there is a break or leak downstream of the valve that does not equal or exceed the closing flow of the valve or if the excess flow valve installed exceeds the flow capacity of the system. See the Excess Flow Warning page for more information regarding the use of excess flow devices.

LIQUID TRANSFER ADAPTERS

Designed for use between the liquid transfer shutoff valve and the liquid withdrawal tank valve. These adapters enable the tank valve to open properly and allows a tight seal when transferring liquid. Special threads on the tank valve and the adapter help eliminate tampering.

The ME458 Series fits all new underwriters laboratories listed valves. The ME453 and ME455 fit older style liquid withdrawal tank valves that are still in service and have not been replaced. They will not provide a positive seal during actuation of liquid withdrawal tank valve until fully seated.

BUILT & TESTED IN THE USA

Part No.	Material	Inlet Connection	Outlet Connection
ME458	Brass	1-5/8" UNF	3/4" FNPT
ME458S	Steel	1-5/8" UNF	3 /4" FNPT
ME453	Brass	3/4" NGT	3/4" FNPT
ME455	Brass	3/4" NGT	3/4" MNPT

ME453

ME455

ME458

COMBINATION VALVES

Developed to mount a pressure gauge and fixed tube liquid level gauge all in one valve. The shutoff portion of the valve increases the pressure gauge's life and accuracy by eliminating constant gauge pressure and allows for easy gauge replacement. To replace a gauge simply close the valve and open the vent valve to relieve pressure before disassembling pressure gauge.

The valve can be installed at the maximum fill level or an 1/8" MNPT dip tube can be installed on the container connection side to set any liquid level desired. For use in ASME bulk storage containers and DOT transport tank installations.

Additionally, these valves can be used for a wide variety of other applications, including in-line use, as they meet the requirements of UL 125 – Flow Control Valves.

FEATURES

- All steel and stainless steel component construction
- Integral #54 orifice provides gauge dampening protection
- Durable ductile iron body with automotive grade powder coat finish or plated steel body

ME830

MEP449S-101 Replacement Protective Weather Boot

MEJ415G

ME830SS

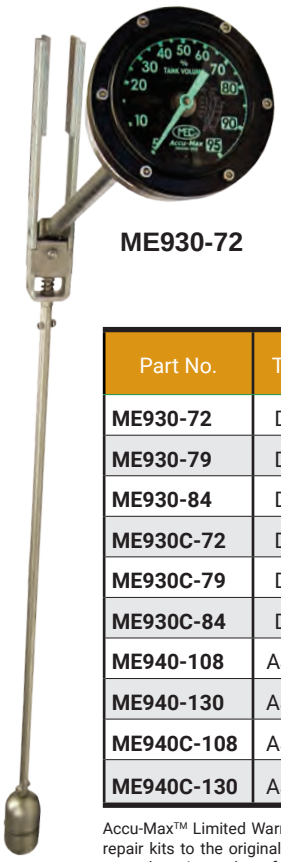
MEP449S-101 Replacement Protective Weather Boot

MEJ415

BUILT & TESTED IN THE USA

Part No.	Material	Container Connection MNPT	Service Connections FNPT	Dip Tube Connection FNPT	Orifice	Accessories	
						Stainless Steel Vent Valve	Stainless Steel 0-400 PSIG Pressure Gauge
ME830	Ductile Iron	3/4" MNPT	1/4" FNPT (1)	1/8"	.062"	Included	MEJ526 MEJ542
ME830SS	Stainless Steel	3/4" MNPT	1/4" FNPT (1)	1/8"	.062"	Included	MEJ526 MEJ542
MEJ415	Steel	3/4" MNPT	1/4" FNPT (2)	1/4"	#55 (0.025")	MEJ402S	MEJ542
MEJ415G	Steel	3/4" MNPT	1/4" FNPT (2)	1/4"	#55 (0.025")	Included	Included

ACCU-MAX™ FLOAT GAUGES
HORIZONTAL MOUNT SERIES



ME930-72

Designed to measure liquid levels within horizontal DOT and Stationary ASME Tanks with fluid capacities above 2,300 gallons. For maximum gauge life, the float arm features an integral spring loaded shock absorber for harsh over-the-road applications. The standard dial face features a black background for reduced glare with glow technology providing an easy to read "glow in the dark" dial face, perfect for low light situations. An optional classical style dial face is available. These gauges are suitable for use in bobtail, transport, railcar and bulk storage applications.

NOTE: These gauges must be installed on the centerline of the tank's side or end for accurate readings.

Part No.	Type	Style	Dial Face	Dial Size	Tank Diameter
ME930-72	DOT	Standard	Glow/Black	4"	72"
ME930-79	DOT	Standard	Glow/Black	4"	79"
ME930-84	DOT	Standard	Glow/Black	4"	84"
ME930C-72	DOT	Classic	Silver/Black	4"	72"
ME930C-79	DOT	Classic	Silver/Black	4"	79"
ME930C-84	DOT	Classic	Silver/Black	4"	84"
ME940-108	ASME	Standard	Glow/Black	8"	108"
ME940-130	ASME	Standard	Glow/Black	8"	130"
ME940C-108	ASME	Classic	Silver/Black	8"	108"
ME940C-130	ASME	Classic	Silver/Black	8"	130"

Accu-Max™ Limited Warranty: Marshall Excelsior warrants Accu-Max™ float gauges and repair kits to the original buyer to be free of defects in material and workmanship under normal service and use for two years from manufactured date.

FEATURES

- All stainless steel construction
- Welded tube to coupling design for maximum strength and durability
- Dial face 100% sealed and argon filled to prevent moisture build-up & fogging
- Factory set and precision tuned for superb accuracy
- Dial face and mounting hardware universal with other industry standard gauges
- Mounts to all standard 8 bolt tank flange adapters
- **Custom length tank configurations available upon request for 30" to 300" I.D. tank**

PATENT
#D671,022
#D666,933

"Glow" Technology
Standard Dial

ME940 ASME Series / 8" Dial
Shown as Standard "Glow" Dial

ME930C DOT Series / 4" Dial
Shown as Classic Dial

ACCESSORIES

Designed for mounting float gauges in DOT or ASME tanks. These zinc plated steel 8 bolt mounting flanges feature 1/2"-13 threads for easy installation.

Part No.	Connection	Connection	Installation Tool
ME931	2-1/2" MNPT	1/2"-13 Female	MEP930WG
ME932*	Weld	1/2"-13 Female	–

*Weld flanges supplied with material certification

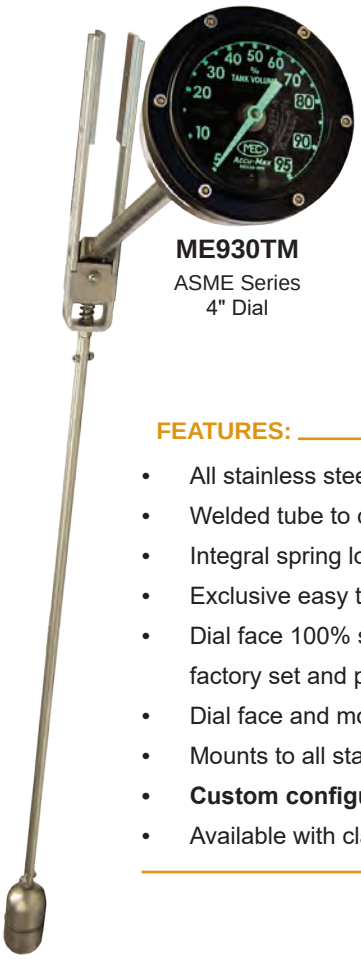
ME932

ME931

BUILT & TESTED
IN THE USA

TOP MOUNT SERIES

Measure liquid levels within horizontal Stationary ASME Tanks with fluid capacities above 2,300 gallons. Suitable for use in bulk storage vessels equipped with either 2-1/2" NPT 6000 lb. or 8 bolt 3-1/2" on center tank openings located on the top of the vessel such as underground or buried applications.



ME930TM
ASME Series
4" Dial

ME940TM
ASME Series
8" Dial

FEATURES:

- All stainless steel construction
- Welded tube to coupling design for maximum strength and durability
- Integral spring loaded shock absorber
- Exclusive easy to read “glow in the dark” dial face perfect for low light situations
- Dial face 100% sealed and argon filled to prevent moisture build-up & fogging factory set and precision tuned for superb accuracy
- Dial face and mounting hardware universal with other industry standard gauges
- Mounts to all standard 8 bolt tank flange adapters
- **Custom configurations available upon request**
- Available with classic style dial face

c UL us

BUILT & TESTED IN THE USA

Part No.	Description	Dial Face	Dial Size	Riser	Tank Diameter	Accessories
ME930TM4-108-5946	Accu-Max Stationary ASME Top Mount Gauge	Glow/ Black *	4"	4"	108"	ME931 2-1/2” MNPT Flange Adapter ME932 Weld Type Flange Adapter
ME930TM8-108-6346			4"	8"	108"	
ME930TM4-130-7056			4"	4"	130"	
ME930TM8-130-7456			4"	8"	130"	
ME940TM4-108-5948			8"	4"	108"	
ME940TM8-108-6348			8"	8"	108"	
ME940TM4-130-7060			8"	4"	130"	
ME940TM8-130-7460			8"	8"	130"	

* To order with classic (silver/black) dial face add “C” for Classic after the prefix part number, i.e. ME930TMC-108-6346
NOTE: Custom configurations available upon request

ACCU-MAX+ FLOAT GAUGES

DIGITAL DIAL SERIES

Measure liquid levels within horizontal DOT and Stationary ASME Tanks with fluid capacities above 2,300 gallons. Suitable for use in bobtail, transport and bulk storage applications. Compatible with the BASE Engineering ProControl3 Universal Remote.

FEATURES:

- Tilt compensation for maximum accuracy on all grades
- Estimated gallon (liter) display
- Bright, easy to read positive LCD display
- 10 selectable LCD backlight color options
- Sealed easy access connection
- Fully programmable with Accu-Max+™ configuration kit
- Reverse compatability to all MEC Accu-Max™ Series DOT float gauges
- Ability to push display information to PC3 handheld remote
- Full submersion rating/Dust ingress protection

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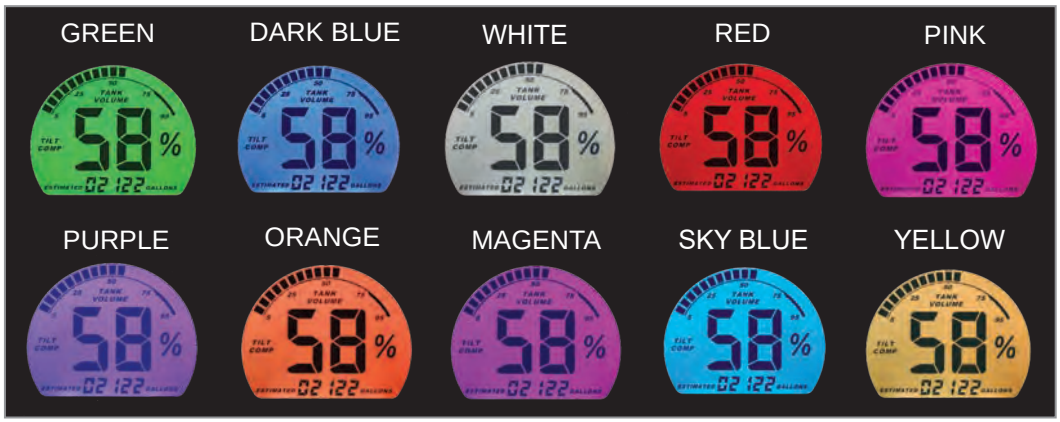
Backlight Color Options



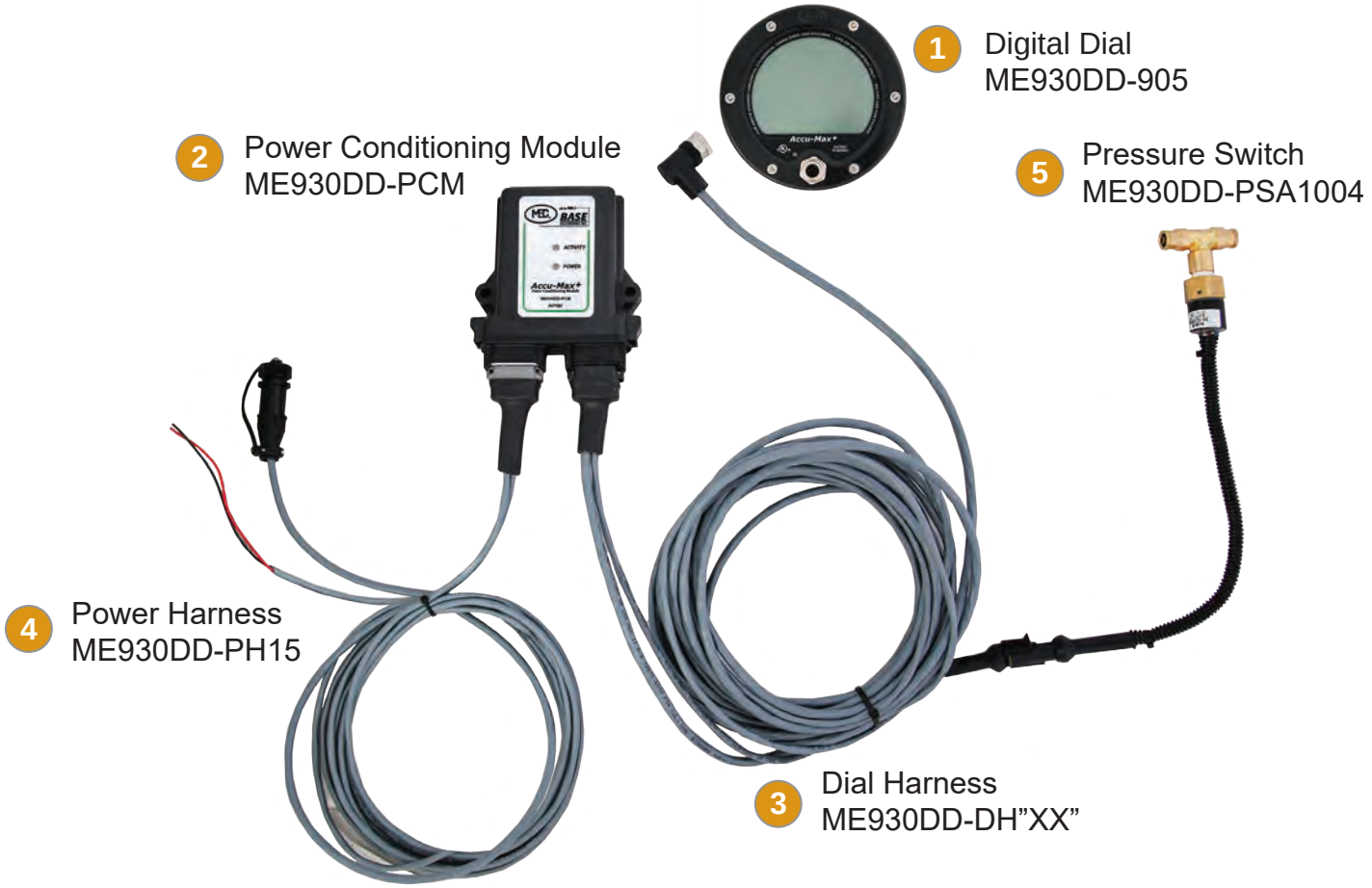
ACCU-MAX+ CONFIGURATION KIT

The Accu-Max+ configuration kit is used to program the digital dial with tank parameters and settings for each tank. The included configuration program steps the user through the parameters and options available for the Accu-Max+ Digital Dial.

ACCU-MAX+ CONFIGURATION KIT	
Part No.	Description
ME930DD-CK	PC executable file, programming cables, rechargeable lithium ion battery pack

* Kit includes all items shown

Made in USA & Canada



1

DIGITAL DIAL OPTIONS				
Part No.	Type	Style	Dial Size	Tank Diameter
ME930DD-905	DOT	Accu-Max+ Digital Dial Only	4"	N/A
ME930DD-72	DOT	Float Gauge w/ Accu-Max+ Digital Dial	4"	72"
ME930DD-79	DOT		4"	79"
ME930DD-84	DOT		4"	84"

2

POWER CONDITIONING MODULE		
Part No.	Type	Mounting Location
ME930DD-PCM	Potted	Universal - Interior/Exterior

3

DIAL HARNESS		
Part No.	Description	Harness Length
ME930DD-DH20	Dial harness w/ 15 ft. air pressure switch cable	20'
ME930DD-DH30		30'
ME930DD-DH40		40'
ME930DD-DH50		50'

4

POWER HARNESS	
Part No.	Description
ME930DD-PH15	15 ft. vehicle power harness w/ 3 ft. data connector cable

5

PRESSURE SWITCH	
Part No.	Description
ME930DD-PSA1004	Air pressure switch assembly w/ 3/8" inline connector tee

ACCU-MAX™ FLOAT GAUGES

TRANS-MAX SERIES

Measure liquid levels within horizontal DOT and Stationary ASME Tanks with 1" FNPT tank gauge port openings. Designed to replace rotary style gauges in tanks with fluid capacities greater than 2,300 gallons. Suitable for use in bobtail, transport, and bulk storage applications. MEC exclusive "wedge" design allows for easy installation while greatly reducing time spent inside the vessel.

NOTE: The heavy duty design of this gauge requires entering vessel through man-way during installation.

ME930WG DOT Series
ME940WG ASME Series

U.S. PATENT #9,562,800

FEATURES

- All stainless steel construction
- Welded tube to coupling design for maximum strength and durability
- Installation requires man-way
- Converts rotary style gauge to heavy duty ***Accu-Max*** style for both mobile & stationary applications
- Integral spring loaded shock absorber for arduous over-the-road application
- Easy to assemble
- Exclusive easy to read "glow in the dark" dial face perfect for low light situations
- Dial face 100% sealed and argon filled to prevent moisture build-up & fogging
- Factory set and precision tuned for superb accuracy
- Dial face and mounting hardware universal with other industry standard gauges
- Mounts to all standard 1" NPT tank coupling adapters
- **Custom lengths available upon request**
- Available with classic style dial face

MEP930WG
*Sold seperately but highly recommended

Trans-Max Accu-Max DOT Float Gauges					
Part No.	Description	Dial Face	Dial Size	Tank Diameter	Accessories
ME930WG-72	Trans-Max Accu-Max DOT Float Gauge Assembly	Glow/Black	4"	72"	MEP930WG Zinc Plated Installation Tool
ME930WG-79	Trans-Max Accu-Max DOT Float Gauge Assembly		4"	79"	
ME930WG-84	Trans-Max Accu-Max DOT Float Gauge Assembly		4"	84"	
ME930CWG-72	Trans-Max Accu-Max DOT Float Gauge Assembly (Classic)	Silver/Black	4"	72"	
ME930CWG-79	Trans-Max Accu-Max DOT Float Gauge Assembly (Classic)		4"	79"	
ME930CWG-84	Trans-Max Accu-Max DOT Float Gauge Assembly (Classic)		4"	84"	

Trans-Max Accu-Max ASME Stationary Float Gauges					
Part No.	Description	Dial Face	Dial Size	Tank Diameter	Accessories
ME940WG-108	Trans-Max Accu-Max Stationary Float Gauge Assembly	Glow/Black	8"	108"	MEP930WG Zinc Plated Installation Tool
ME940WG-130	Trans-Max Accu-Max Stationary Float Gauge Assembly		8"	130"	
ME940CWG-108	Trans-Max Accu-Max Stationary Float Gauge Assembly (Classic)	Silver/ Black	8"	108"	
ME940CWG-130	Trans-Max Accu-Max Stationary Float Gauge Assembly (Classic)		8"	130"	

BUILT & TESTED IN THE USA

30 DEGREE ANGLE MOUNT SERIES

Designed to measure liquid levels within horizontal DOT and Stationary ASME tanks with fluid capacities above 2,300 gallons. For maximum gauge life, the float arm features an integral spring loaded shock absorber for harsh over-the-road applications. The standard dial face features a black background for reduced glare with glow technology providing an easy to read "glow in the dark" dial face, perfect for low light situations. An optional classical style dial face is available. These gauges are suitable for use in bobtail, transport and bulk storage applications.

NOTE: These gauges are for 30 degree installation in regard to the centerline of the tank's side or end for accurate readings

Part No.	Type	Style	Dial Face	Dial Size	Tank Diameter
ME930AM-72	DOT	Standard	Glow/Black	4"	72"
ME930AM-79	DOT	Standard	Glow/Black	4"	79"
ME930AM-84	DOT	Standard	Glow/Black	4"	84"
ME930AMC-72	DOT	Classic	Silver/Black	4"	72"
ME930AMC-79	DOT	Classic	Silver/Black	4"	79"
ME930AMC-84	DOT	Classic	Silver/Black	4"	84"
ME940AM-108	ASME	Standard	Glow/Black	8"	108"
ME940AM-130	ASME	Standard	Glow/Black	8"	130"
ME940AMC-108	ASME	Classic	Silver/Black	8"	108"
ME940AMC-130	ASME	Classic	Silver/Black	8"	130"

Accu-Max™ Limited Warranty: Marshall Excelsior warrants Accu-Max™ float gauges and repair kits to the original buyer to be free of defects in material and workmanship under normal service and use for two years from manufactured date.

FEATURES

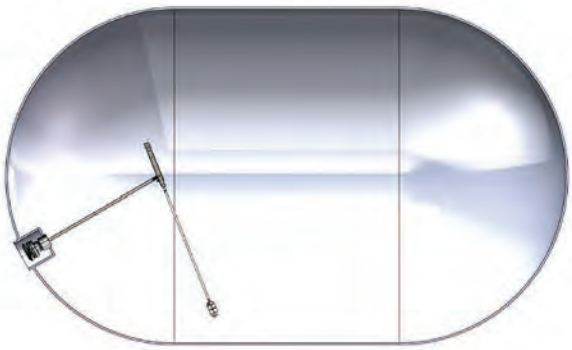
- All stainless steel construction
- Welded tube to coupling design for maximum strength and durability
- Dial face 100% sealed and argon filled to prevent moisture build-up & fogging
- Factory set and precision tuned for superb accuracy
- Dial face and mounting hardware universal with other industry standard gauges
- Mounts to all standard 8 bolt tank flange adapters
- **Custom length tank configurations available upon request for 30" to 300" I.D. tank**

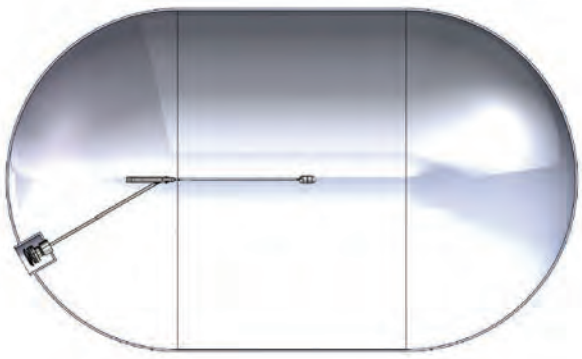
BUILT & TESTED IN THE USA

"Glow" Technology Standard Dial

ME940 ASME Series / 8" Dial Shown as Standard "Glow" Dial

ME930C DOT Series / 4" Dial Shown as Classic Dial





PRESSURE RELIEF VALVE WARNING

INSPECTION

A pressure relief valve discharges when some extraordinary circumstance causes an over pressure condition in the container. If a pressure relief valve is known to have discharged, the relief valve, as well as the entire system, should be immediately and thoroughly inspected to determine the reason for the discharge. In the case of discharge due to fire, the valve should be removed from service and replaced.

Relief valves should be inspected each time the container is filled but no less than once a year. If there is any doubt about the condition of the valve, it must be replaced.

WARNING: Eye protection must be worn when performing inspection on relief valves under pressure. Never look directly into a relief valve under pressure or place any part of your body where the relief valve discharge could impact it. In some cases a flashlight and small mirror are suggested to assist when making visual inspections.

In the case of a pressure relief valve that has opened due to a pressure beyond its start-to-discharge setting, the chances of foreign material lodging between the seat and the disc is low, however the possibility is always present. If the relief valve continues to leak at pressure below its start-to-discharge setting it must be replaced.

If there is any doubt about the condition of the relief valve, or if the relief valve has not been protected by a cap for some time, it should be replaced before refilling the container.

Inspection Checklist:

1. Cap: Check that the protective cap is in place over the valve or pipeaway stack outlet and has a snug fit. The protective cap helps protect the relief valve against possible malfunction caused by rain, sleet, snow, ice, sand, dirt, pebbles, insects, other debris and contamination. Replace damaged or missing caps at once and keep a cap in place at all times.

2. Weep Holes: Inspect and clear debris from the relief valve weep holes. Dirt, ice, paint, and other foreign particles can prevent proper drainage from the valve body. If the weep holes cannot be cleared, replace the valve.

3. Relief Valve Spring: Exposure to high concentrations of water, salt, industrial pollutants, chemicals and contaminants could cause metal parts to fail including the relief valve spring. If the coating on the relief valve spring is cracked or chipped, replace the valve.

4. Physical Damage: Ice accumulations and improper installation could cause mechanical damage. If there are any indications of damage, replace the valve.

5. Tampering or Readjustment: Pressure relief valves are factory set to discharge at specified pressures. If there are any indications of tampering or readjusting, replace the valve.

6. Seat Leakage: Check for leaks in the seating area using Marshall Excelsior leak detector solution. If there is any indication of leakage, replace the valve. Never force a relief valve closed and continue to leave it in service. This could result in damage to the valve and possible rupture of the container or piping on which the valve is installed.

7. Corrosion: Replace the valve if there are any signs of corrosion or contamination.

8. Moisture, Foreign Particles or Contaminants in the Valve:
Foreign material such as paint, tar or ice in relief valve parts can impair the proper functioning of the valves. Grease placed in the valve body may harden over time or collect contaminants, thereby impairing the proper operation of the relief valve. Do not place grease in the valve body; replace the valve if there are any indications of moisture or foreign matter in the valve.

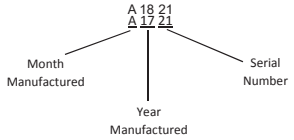
9. Corrosion or Leakage at Container Connection: Check container to valve connection using Marshall Excelsior leak detector solution. Replace the valve if there is any indication of corrosion or leakage at the connection between the valve and container.

CAUTION: Never plug the outlet of a pressure relief valve. Any device used to stop the flow of a properly operating pressure relief valve that is venting an over pressurized container can cause severe consequences.

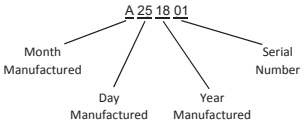
PRODUCT AGE

To determine the product's age, check the product for a date code consisting of a series of letters and numbers.

Full Internal Relief Valves (FIR)



Semi Internal Relief Valves (SIR) & External Relief Valves



OPERATION OF PRESSURE RELIEF VALVES

Pressure relief valves are set and sealed by the manufacturer to function at a specific "start-to-discharge" pressure in accordance with UL 132. This set pressure is marked on the relief valve and depends on the design requirement of the container to be protected by the relief valve. If the container pressure reaches the start-to-discharge pressure, the relief valve will open a slight amount as the seat disc begins to move slightly away from the seat. If the pressure continues to rise despite the initial discharge through the relief valve, the seat disc will move to a full open position with a sudden "pop". This popping sound is from which the term "pop-action" is derived.

Whether the relief valve opens a slight amount or pops wide open, it will start to close if the pressure in the container diminishes. After the pressure has decreased sufficiently, the relief valve spring will force the seat disc against the seat tightly enough to prevent any further escape of product. The pressure at which the valve closes tightly is referred to as the "re-seal" or "blow-down" pressure. Generally, the re-seal pressure will be lower than the start-to-discharge pressure.

Requirements for Pressure Relief Valves

Every container used for storing or hauling gas must be protected by a pressure relief valve. These valves are designed to protect the container against the development of hazardous conditions which might be created by any of the following:

- High pressures resulting from exposure of the container to excessive external heat.
- High pressures due to the use of incorrect fuel.
- High pressures due to improper purging of the container.

Selection of MEC Pressure Relief Valves for ASME Containers

The rate of discharge required for a given container is determined by the calculation of the surface area of the container.

The set pressure of a pressure relief valve depends upon the design pressure of the container.

Chart A - Minimum Required Rate of Discharge for LP-Gas Pressure Relief Valves Used on ASME Containers

From NFPA Code #58, Table 5.9.2.6 (2020 Edition)

Minimum required rate of discharge in cubic feet per minute of air at 120% of the maximum permitted start-to-discharge pressure relief valves to be used on containers other than those constructed in accordance with Interstate Commerce specification.

Surface Area Sq. Ft.	Flow Rate CFM Air	Surface Area Sq. Ft.	Flow Rate CFM Air	Surface Area Sq. Ft.	Flow Rate CFM Air	Surface Area Sq. Ft.	Flow Rate CFM Air	Surface Area Sq. Ft.	Flow Rate CFM Air	Surface Area Sq. Ft.	Flow Rate CFM Air	Surface Area Sq. Ft.	Flow Rate CFM Air
20 or less	626	85	2050	150	3260	230	4630	360	6690	850	13540	1500	21570
25	751	90	2150	155	3350	240	4800	370	6840	900	14190	1550	22160
30	872	95	2240	160	3440	250	4960	380	7000	950	14830	1600	22740
35	990	100	2340	165	3530	260	5130	390	7150	1000	15470	1650	23320
40	1100	105	2440	170	3620	270	5290	400	7300	1050	16100	1700	23900
45	1220	110	2530	175	3700	280	5450	450	8040	1100	16720	1750	24470
50	1330	115	2630	180	3790	290	5610	500	8760	1150	17350	1800	25050
55	1430	120	2720	185	3880	300	5760	550	9470	1200	17960	1850	25620
60	1540	125	2810	190	3960	310	5920	600	10170	1250	18570	1900	26180
65	1640	130	2900	195	4050	320	6080	650	10860	1300	19180	1950	26750
70	1750	135	2990	200	4130	330	6230	700	11550	1350	19780	2000	27310
75	1850	140	3080	210	4300	340	6390	750	12220	1400	20380		
80	1950	145	3170	220	4470	350	6540	800	12880	1450	20980		

Surface area = Total outside surface area of container in square feet.

When the surface area is not stamped on the name plate or when the marking is not legible, the area can be calculated by using one of the following formulas:

1. Cylindrical container with hemispherical heads. Area (in sq. ft.) = overall length (ft.) x outside diameter (ft.) x 3.1416
2. Cylindrical container with other than hemispherical heads. Area (in sq. ft.) = [overall length (ft.) + .3 outside diameter (ft.)] x outside diameter (ft.) x 3.1416.
3. Spherical container. Area (in sq. ft.) = outside diameter (ft.) squared x 3.1416.

Flow Rate CFM Air = Required flow capacity in cubic feet per minute of air at standard conditions, 60°F. and atmospheric pressure (14.7 psia).

The flow rate discharge may be interpolated for intermediate values of surface area. For containers with total outside surface area greater than 2000 square feet, the required flow rate can be calculated using the formula. Flow Rate in CFM Air = 53.632 $A^{0.82}$. Where A = total outside surface area of the container in square feet.

Valves not marked "Air" have rate marking in cubic feet per minute of liquefied petroleum gas. These can be converted to ratings in cubic feet per minute of air by multiplying the liquefied petroleum gas ratings by the factors listed below. Air flow ratings can be converted to ratings in cubic feet per minute of liquefied petroleum gas by dividing the air ratings by the factors listed below.

Air Conversion Factors

Container Type	100	125	150	175	200	
Air Conversion Factor		1.162	1.142	1.113	1.078	1.010

Chart B - Minimum Required Rate of Discharge for Anhydrous Ammonia Pressure Relief Valves Used on ASME Containers

From , Appendix A

Minimum required rate of discharge in cubic feet per minute of air at 120% of the maximum permitted start-to-discharge pressure for pressure relief valves to be used on containers other than those constructed in accordance with United States Department of Transportation cylinder specifications.

Surface Area Sq. Ft.	Flow Rate CFM Air	Surface Area Sq. Ft.	Flow Rate CFM Air	Surface Area Sq. Ft.	Flow Rate CFM Air	Surface Area Sq. Ft.	Flow Rate CFM Air	Surface Area Sq. Ft.	Flow Rate CFM Air	Surface Area Sq. Ft.	Flow Rate CFM Air	Surface Area Sq. Ft.	Flow Rate CFM Air
20	258	85	845	150	1350	230	1920	360	2760	850	5590	1500	8900
25	310	90	885	155	1390	240	1980	370	2830	900	5850	1550	9140
30	360	95	925	160	1420	250	2050	380	2890	950	6120	1600	9380
35	408	100	965	165	1460	260	2120	390	2950	1000	6380	1650	9620
40	455	105	1010	170	1500	270	2180	400	3010	1050	6640	1700	9860
45	501	110	1050	175	1530	280	2250	450	3320	1100	6900	1750	10090
50	547	115	1090	180	1570	290	2320	500	3620	1150	7160	1800	10330
55	591	120	1120	185	1600	300	2380	550	3910	1200	7410	1850	10560
60	635	125	1160	190	1640	310	2450	600	4200	1250	7660	1900	10800
65	678	130	1200	195	1670	320	2510	650	4480	1300	7910	1950	11030
70	720	135	1240	200	1710	330	2570	700	4760	1350	8160	2000	11260
75	762	140	1280	210	1780	340	2640	750	5040	1400	8410		
80	804	145	1310	220	1850	350	2700	800	5300	1450	8650		

Surface area = Total outside surface area of container in square feet.

When the surface area is not stamped on the name plate or when the marking is not legible, the area can be calculated by using one of the following formulas:

1. Cylindrical container with hemispherical heads. Area (in sq. ft.) = overall length (ft.) x outside diameter (ft.) x 3.1416
2. Cylindrical container with other than hemispherical heads. Area (in sq. ft.) = [overall length (ft.) + .3 outside diameter (ft.)] x outside diameter (ft.) x 3.1416.
3. Spherical container. Area (in sq. ft.) = outside diameter (ft.) squared x 3.1416.

Flow Rate CFM Air = Required flow capacity in cubic feet per minute of air at standard conditions, 60°F. and atmospheric pressure (14.7 psia).

The rate of discharge may be interpolated for intermediate values of surface area. For containers with total outside surface area greater than 2,500 square feet, the required flow rate can be calculated using the formula, Flow Rate in CFM Air = 22.11 $A^{0.82}$ where A = outside surface area of the container in square feet.

Conversion Factor

ft^2 x 0.092 903 = m^2
CFM x 0.028 317 = m^3/min
ft. x 0.304 8 = m

INSTALLATION

WARNING: Failure to follow these instructions or to properly install and maintain this equipment could result in an explosion and/or fire causing property damage and personal injury or death. Marshall Excelsior Company equipment must be installed, operated and maintained in accordance with all federal, state and local codes and Marshall Excelsior Company instructions. The installation in most states must also comply with NFPA standards 58 and 59, and ANSI K61.1. Only personnel trained in the proper procedures, codes, standards and regulations should install, maintain and service this equipment.
Be sure all instructions are read and understood before installation, operation and maintenance. These instructions must be passed along to the end user of the product.

CAUTION: Contact or inhalation of liquid propane, ammonia and their vapors can cause serious injury or death! Vapor gases must be released outdoors in air currents that will insure dispersion to prevent exposure to people and livestock. Flammable gas must be kept far enough from any open flame or other source of ignition to prevent fire or explosion!

Consult NFPA Codes 58 and 59 / ANSI K61.1 and/or any applicable regulations governing the application and use of pressure relief valves. Make sure you are thoroughly trained before you attempt any valve installation, inspection or maintenance.

Proper installation is essential to the safe operation of pressure relief valves. Install MEC pressure relief valves using the following steps:

1. Check that the valve is clean and free of foreign material in the valve inlet and outlet.
2. Verify that the relief valve start-to-discharge setting and flow rate is correct for the application.
3. Apply a suitable PTFE thread sealant compound to the external NPT threads.
4. Inspect the relief valve inlet and valve seat to ensure no thread sealant or foreign material is present.
5. Install relief valve into container port or manifold using appropriate wrench until leak tight joint is achieved.
6. Check for damage and proper operation after valve installation.
7. After the container is charged with product, check joints for leakage using Marshall Excelsior leak detector.
8. After installation is complete, replace protective cap onto relief valve.

Pipeaways and deflectors may be required by local codes, laws and regulations depending on the installation. Use only MEC adapters on MEC relief valves. Adapters not designed specifically for piping away MEC relief valves, such as those with 90° turns will reduce internal diameters, and decrease flow dramatically. These should never be used as they can cause the relief valve to chatter and eventually destroy itself.

The addition of deflectors, pipeaway adapters and piping will restrict the flow. To properly protect any container, the total system flow must be sufficient to relieve pressure at the pressure setting of the relief valve in accordance with all applicable codes.

REPLACEMENT OF PRESSURE RELIEF VALVES

WARNING: Under normal conditions, the useful safe service life of a pressure relief valve is 10 years from the original date of manufacture. However, the safe useful life of the valve may be shortened and replacement required in less than 10 years depending on the environment in which the valve lives. Inspection and maintenance of pressure relief valves is very important. Failure to properly inspect and maintain pressure relief valves could result in personal injuries or property damage.

The safe useful life of pressure relief valves can vary greatly depending on the environment in which they live.

Relief valves are required to function under widely varying conditions. Corrosion, aging of the resilient seat disc and friction all proceed at different rates depending upon the nature of the specific environment and application. Gas impurities, product misuse and improper installations can shorten the safe life of a relief valve. Dealers must observe and determine the safe useful life of relief valves in his systems.

Relief valves in service beyond their service life can exhibit the following degradation in function:

- They may leak at pressures below the set pressure.
- They may open and fail to properly reseat.
- They may open at higher than set pressure.

These failures to function properly are due primarily to four "environmental" conditions:

1. Corrosion of metal parts (particularly springs) which result in the component parts failing to perform.
2. Deterioration of synthetic rubber seat disc material.
3. Clogging or "cementing" of the movable relief valve components so that their movement is restricted.
4. Debris on the valve seat after the relief valve opens, effectively preventing the valve from resealing.

Corrosion is caused by water, corrosive atmospheres of salt and high industrial pollutants, chemicals, and contaminants. High concentrations can attack the metal parts vigorously. No suitable metals are totally resistant to such corrosion.

Synthetic rubber and seat disc materials can also be attacked by impurities in the gas and corrosive atmospheres, particularly those with sulphur dioxide. There are no suitable rubber materials which resist all contaminants.

"Cementing" of relief valve parts can be caused by normal industrial atmospheres containing particles of dirt, iron oxide, metal chips, etc. combined with water, oil, or grease. Ice collecting in recessed valves could cause failure to open. Paint and tar in relief valves also cause failure to function properly.

RELIEF VALVE SAFETY INFORMATION

Repair and Testing: MEC Pressure Relief Valves are tested and listed by Underwriters Laboratories, Inc., in accordance with UL 132 and NFPA Code #58. Construction and performance of MEC Pressure Relief Valves are consistently checked at the factory by UL and ASME audits Therefore, testing of MEC Pressure Relief Valves in the field is not necessary.

Any pressure relief valves which shows evidence of leakage, other improper operation or is suspect as to its performance must be replaced immediately using approved procedures.

While the functioning of a pressure relief valve appears to be relatively simple, the assembly and test procedure used to manufacture these MEC products is rather complex. Highly specialized test fixtures and specially trained personnel are necessary to attain proper relief valve settings. These fixtures and personnel are available only at the factory.

WARNING: Never attempt to repair or change the setting of MEC Pressure Relief Valves. Any changes in settings or repairs in the field will void the MEC warranty and product listings, and may create a serious hazard.

PIPEAWAY ADAPTERS: Pipeaway adapters are available for most MEC Pressure Relief Valves, where it is required or desirable to pipe the discharge above or away from the container. Each adapter is designed to sever if excessive stress is applied to the vent piping—thus leaving the relief valve intact and fully operative.

QUAD-PORT RELIEF VALVE MANIFOLD

Designed for use with large stationary storage containers with flanged openings. These relief manifolds have an additional relief valve excluded from the flow rating, which allows for service and/or exchange of any one relief valve without evacuating the tank. Our large port selection handle allows for each specific valve port to be closed off so that the relief valve may be removed while the remaining valves remain under pressure protecting the tank and contents. Each manifold model is rated based on the flow through the relief valves with one valve removed from service.

FEATURES

- Heavy duty ductile iron body
- Durable V-cup PTFE packing stem seals
- Molded rubber weather guard for manifold rotary gear with port plug
- Integral breakaway feature leaves seat and seal intact
- Weep hole deflector and hex socket plugs supplied
- Integrated pilot equalizing feature
- Corrosion resistant finish
- Convenient lifting chain included
- 3-1/2”-8 outlet thread accepts 3” MNPT pipeaway

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Large port handle & easy to read port indicators

MEP990-4DFM/3DFM
Flange Reducing Spool Adapter

Part No.	Flange Size	No. Of Relief Valves	Flow Capacity SCFM/Air (2) UL @ 120% Set Pressure	Factory Installed Relief Valve			Accessory
				Seal Material (2)	Start-to-Discharge Setting PSIG	Part No.	8 Stud / Nut Universal Mounting Kit
ME903S-3F/250VM	3” - 300#(1)	3	20,400 (2)	FKM	250	MEV250VM/250	ME904SK
ME903S-3F/250CN	3” - 300#(1)	3	20,400 (2)	Nitrile	250	MEV250CN/250	
ME903S-4F/250VM	4” - 300#	3	20,400 (2)	FKM	250	MEV250VM/250	
ME903S-4F/250CN	4” - 300#	3	20,400 (2)	Nitrile	250	MEV250CN/250	
ME904S-3F	3” - 300#(1)	0	–	–	–	–	
ME904S-3F/250VM	3” - 300#(1)	4	27,740 (3)	FKM	250	MEV250VM/250	
ME904S-3F/250CN	3” - 300#(1)	4	27,740 (3)	Nitrile	250	MEV250CN/250	
ME904S-4F	4” - 300#	0	–	–	–	–	
ME904S-4F/250VM	4” - 300#	4	27,740 (3)	FKM	250	MEV250VM/250	
ME904S-4F/250CN	4” - 300#	4	27,740 (3)	Nitrile	250	MEV250CN/250	
ME903S-3F/265VM	3” - 300#(1)	3	20,555 (2)	FKM	265	MEV250VM/265	
ME903S-3F/265CN	3” - 300#(1)	3	20,555 (2)	Nitrile	265	MEV250CN/265	
ME903S-4F/265VM	4” - 300#	3	20,555 (2)	FKM	265	MEV250VM/265	
ME903S-4F/265CN	4” - 300#	3	20,555 (2)	Nitrile	265	MEV250CN/265	
ME904S-3F/265VM	3” - 300#(1)	4	28,550 (3)	FKM	265	MEV250VM/265	
ME904S-3F/265CN	3” - 300#(1)	4	28,550 (3)	Nitrile	265	MEV250CN/265	
ME904S-4F/265VM	4” - 300#	4	28,550 (3)	FKM	265	MEV250VM/265	
ME904S-4F/265CN	4” - 300#	4	28,550 (3)	Nitrile	265	MEV250CN/265	

(1) For use with modified 300 # ANSI Flange with 4” port
(2) Flow rating based on number of valves indicated in parenthesis ( ) Flow rates are shown as bare relief valves, pipe aways will reduce flow
(3) Nitrile not UL Listed

Accessories	
Part No.	Description
MEP990-4DFM/3DFM	4”-300 LB. X 3”-300 LB. Flanged ACF/ESV/ISC Adapting Spool Kit

MINI QUAD-PORT MANIFOLD
WITH FACTORY INSTALLED RELIEF VALVES

For use with large stationary gas storage containers with 2" FNPT openings. These Relief Manifolds have an additional relief valve excluded from the flow rating, which allows for service and/or exchange of any one relief valve without evacuating the tank. Our large port selection handle allows for each specific valve port to be closed off so that the relief valve may be removed while the remaining valves stay under pressure protecting the tank and contents. Each manifold model is rated based on the flow through the relief valves with one valve removed from service.

ME903S-16B/250VM

FEATURES

- Heavy Duty Ductile Iron Body
- All Stainless Steel Internal Components
- Durable PTFE V-Pack Stem Seals
- Large Diameter Port Selection Handle and Port Indicator
- Molded Rubber Weather Guard for Manifold Rotary Gear with Port Plug
- Available with 250 PSIG and 265 PSIG Relief Valve Set Pressures
- Vapor Equalizing Feature for Easy Port to Port Rotation
- Includes Tank Stabilizer Nut for Maximum Strength at Container Connection
- **COVERS MOST 30,000 GALLON TANKS WITH TWO OR THREE MANIFOLDS DEPENDING IN THE TANK DIAMETER**

MEP178K
(Pipeaway Adapter & Stabilizer Kit)

Part No. (2)	Relief Valve STD	Tank Connection Size	Relief Valve		Flow Rating SCFM/AIR @ 120% of set pressure (1)
			# of Valves	Part No.	UL Rating
ME902S-16B/250	250 PSIG	2" MNPT	2	MEV125B/250	5,115 (1)
ME902S-16/250	250 PSIG	2" MNPT	2	MEV125/250	5,115 (1)
ME902S-16/265	265 PSIG	2" MNPT	2	MEV125/265	5,855 (1)
ME903S-16B/250	250 PSIG	2" MNPT	3	MEV125B/250	9,320 (2)
ME903S-16/250	250 PSIG	2" MNPT	3	MEV125/250	9,320 (2)
ME903S-16/265	265 PSIG	2" MNPT	3	MEV125/265	10,795 (2)
ME904S-16B/250	250 PSIG	2" MNPT	4	MEV125B/250	12,481 (3)
ME904S-16/250	250 PSIG	2" MNPT	4	MEV125/250	12,481 (3)
ME904S-16/265	265 PSIG	2" MNPT	4	MEV125/265	13,630 (3)

(1) Flow rating based on number of valves indicated in parenthesis ( ).
Flow rates shown are for bare relief valves, pipaways will reduce flow rates.
(2) To order FKM seal materials add "VM" after the prefix part number - i.e. ME904S-16B/250VM

Accessories	
Part No.	Description
MEP178	Pipeaway Adapter for MEV125 Series w/ 2" FNPT Outlet - Aluminum
MEP178K	Pipeaway Adapter Kit w Stabilizer Bracket for ME904S-16
MEP123	Installation / Removal Tool for MEV125 Series Relief Valves

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MINI QUAD-PORT TANK SIZING CHART

TANK SIZING REFERENCE CHART							
		LPG			NH3		
Part No.	Relief Valve STD	30,000 Gallon 109" O.D.	30,000 Gal-lon 131" O.D.	18,000 Gal-lon 109" O.D.	30,000 Gal-lon 109" O.D.	30,000 Gal-lon 131" O.D.	18,000 Gal-lon 109" O.D.
ME902 Series	250 PSIG	N/A	5	3	2	2	2
ME902 Series	265 PSIG	N/A	N/A	3	2	2	2
ME903 Series	250 PSIG	3	3	2	2	1	1
ME903 Series	265 PSIG	3	3	2	2	1	1
ME904 Series	250 PSIG	3	2	2	1	1	1
ME904 Series	265 PSIG	3	2	2	1	1	1

* Number indicates quantity of relief manifolds to adequated relief vapor overpressure conditions for listed tank surface areas

MINI QUAD-PORT RELIEF VALVE MANIFOLD

WITHOUT RELIEF VALVES

For use with large stationary gas storage containers with 2" FNPT openings. These Relief Manifolds have an additional relief valve excluded from the flow rating, which allows for service and/or exchange of any one relief valve without evacuating the tank. Our large port selection handle allows for each specific valve port to be closed off so that the relief valve may be removed while the remaining valves stay under pressure protecting the tank and contents. Each manifold model is rated based on the flow through the relief valves with one valve removed from service.

ME904S-16

FEATURES

- Heavy duty ductile iron body
- All stainless steel internal components
- Durable PTFE V-pack stem seals
- Large diameter port selection handle and port indicator
- Molded rubber weather guard for manifold rotary gear with port plug
- Vapor equalizing feature for easy port-to-port rotation
- Includes tank stabilizer nut for maximum strength at container connection

Part No.	Tank Connection Size
ME904S-16	2" MNPT
Accessories	
Part No.	Description
MEV125/250	1-1/4"MNPT External Relief Valve-Nitrile 250PSI - 6,328 SCFM
MEV125/265	1-1/4"MNPT External Relief Valve-Nitrile 265PSI - 6,542 SCFM
MEV125B/250	1-1/4"MNPT External Relief Valve-Nitrile 250PSI - 6,328 SCFM
MEV125B/265	1-1/4"MNPT External Relief Valve-Nitrile 265PSI - 6,542 SCFM

MEV125/250

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EXTERNAL PRESSURE RELIEF VALVES

1-1/4" & 2-1/2" NPT

NH_3

MEV125/250 (Aluminum)

LPG

MEV125B/250 (Brass)

MEV125 Series - Designed for use with large storage containers as a primary pressure relief valve on ASME above and below ground bulk plant installations. All working components are external to the container connection away from possible product contaminants. Compatible with 1-1/4" FNPT multiple head units including ME902S-16, ME903S-16 & ME904S-16 Series Mini Quad-Port Manifolds.

MEV250VM/250

MEV250 Series - Designed for use with storage containers as a primary pressure relief valve on ASME above and below ground installations. All working components and external to the container connection away from possible product contaminants. Compatible with all standard LPG pressure vessels with NPT couplings.

MEP170

FEATURES

- Durable single piece anodized aluminum or brass forged body
- Stainless steel internal components
- Standard Seal Material: HNBR (Nitrile) or FKM
- Available Seal Material: FFKM
- Outlet thread accepts MEP178 pipeaway for 2" FNPT pipeaway
- Includes plastic weather cap for relief valve outlet

MEP250

Part No.	STD/PSIG	Seal Material[3]	Container Connection	OAL	Wrench Hex	Flow Capacity SCFM/AIR[1] UL @ 120% set pressure	Suitable for tanks w/ surface area up to:[2]	Accessories
MEV125B/250	250 PSIG	Nitrile	1-1/4" MNPT	10-1/2"	2-11/16"	6,330	340 Sq. Ft.	MEV125-109 Replacement Cap MEP178 Pipeaway Adapter MEP123 Installation / Removal Tool
MEV125B/265	265 PSIG	Nitrile	1-1/4" MNPT	10-1/2"	2-11/16"	6,545	350 Sq. Ft.	
MEV125BVM/250	250 PSIG	FKM	1-1/4" MNPT	10-1/2"	2-11/16"	6,330	340 Sq. Ft.	
MEV125BVM/265	265 PSIG	FKM	1-1/4" MNPT	10-1/2"	2-11/16"	6,545	350 Sq. Ft.	
MEV125/250	250 PSIG	Nitrile	1-1/4" MNPT	10-1/2"	2-11/16"	6,330	340 Sq. Ft.	
MEV125/265	265 PSIG	Nitrile	1-1/4" MNPT	10-1/2"	2-11/16"	6,545	350 Sq. Ft.	
MEV125VM/250	250 PSIG	FKM	1-1/4" MNPT	10-1/2"	2-11/16"	6,330	340 Sq. Ft.	
MEV125VM/265	265 PSIG	FKM	1-1/4" MNPT	10-1/2"	2-11/16"	6,545	350 Sq. Ft.	
MEV250VM/250	250 PSIG	FKM	2-1/2" MNPT	10-1/2"	4-1/8"	10,333	610 Sq Ft.	MEP170 Relief Valve Adapter MEP250 Installation/ Removal Tool
MEV250CN/250	250 PSIG	Nitrile	2-1/2" MNPT	10-1/2"	4-1/8"	10,333	610 Sq Ft.	
MEV250VM/265	265 PSIG	FKM	2-1/2" MNPT	10-1/2"	4-1/8"	10,948	655 Sq Ft.	
MEV250CN/265	265 PSIG	Nitrile	2-1/2" MNPT	10-1/2"	4-1/8"	10,948	655 Sq Ft.	

(1) Flow rates shown are for bare relief valves, pipaways will reduce flow rates.
(2) Per NFPA Code #58, Table 5.9.2.6 (2017 Edition) area shown is for UL or ASME flow rating, whichever is larger.
(3) For FFKM seal materials add "K" after the prefix part number - i.e. MEV125K/250

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FULL INTERNAL PRESSURE RELIEF VALVES

Designed for use in mobile gas containers as a primary pressure relief valve for bobtail and transport trailer installations. All working components are internal to the container connection preventing damage to the valve should a roll-over occur.

FEATURES

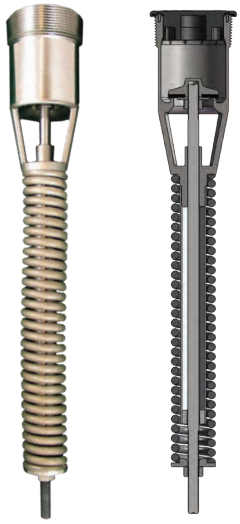
- Durable stainless steel body construction
- All stainless steel internal components for maximum corrosion resistance
- Available with Nitrile, FKM, or FFKM valve seals
- Large seating surface for superior seal performance & reliability.
- Available with 250 & 265 PSI UL LISTED set pressures
- Custom set pressures available

BUILT & TESTED IN THE USA

Travel stop prevents damage to relief valve seat

MEP200FIR/MEP300FIR
Hex Installation Tool

MEV300FIR SERIES



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Part No.	STD/ PSIG	Container Connection	Installation Hex	Flow Capacity SCFM/Air (2)	Seat Material	Accessories	
				UL @ 120% Set Pressure		Cap	Hex Installation Tool
MEV200FIR/250 (4)	250	2"MNPT	1-1/2"	4,460	Nitrile	MEV200FIR-09	MEP200FIR
MEV200FIR/265	265		1-1/2"	4,670	Nitrile		
MEV200FIREP/265 (1)	265		1-1/2"	4,670	EPR/EPDM		
MEV200FIRV/250	250		1-1/2"	4,460	FKM		
MEV200FIRV/265	265		1-1/2"	4,670	FKM		
MEV200FIRK/250 (1)	250		1-1/2"	4,460	FFKM (3)		
MEV200FIRK/265 (1)	265		1-1/2"	4,670	FFKM (3)		
MEV200FIRNP/250	250		1-1/2"	4,670	Neoprene		
MEV200FIRNP/265	265		1-1/2"	4,670	Neoprene		
MEV300FIR/250 (4)	250	3" MNPT	2-1/2"	10,865	Nitrile	MEV300FIR-09	MEP300FIR
MEV300FIR/265	265		2-1/2"	11,600	Nitrile		
MEV300FIREP/265 (1)	265		2-1/2"	11,600	EPR/EPDM		
MEV300FIRK/250 (1)	250		2-1/2"	10,865	FFKM (3)		
MEV300FIRK/265 (1)	265		2-1/2"	11,600	FFKM (3)		
MEV300FIRV/250	250		2-1/2"	10,865	FKM		
MEV300FIRV/265	265		2-1/2"	11,600	FKM		
MEV300FIRNP/250 (1)	250		2-1/2"	10,865	Neoprene		
MEV300FIRNP/265 (1)	265		2-1/2"	11,600	Neoprene		

(1) FFKM, Neoprene and EPR/EPDM not UL Listed.
(2) Flow rates are shown for bare relief valves, pipe-aways will reduce flow
(3) Recommended for LPG and NH3 Dual Service Applications
(4) For NH_3 use add "HN" after the prefix for hydrogenated nitrile part number - i.e. MEV200FIRHN/250
NOTE: Size relief capacity per NFPA Code #58, Table 5.9.2.6 (2017 Edition)

FLANGED FULL INTERNAL PRESSURE RELIEF

Designed for use in mobile containers as a primary pressure relief valve for bobtail and transport trailer installations. All working components are internal to the container connection preventing damage to the valve should a roll-over incident occur. Our unique design incorporates a standard 3"ANSI - 300LB. raised face flange connection to assure a 100% leak free connection for rugged over the road applications. This eliminates problems associated with NPT threaded connections and/or tank coupling wear due to vibration caused by over the road transit, providing maximum tank and relief valve service life.

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FEATURES

- Durable single piece stainless steel flanged body construction.
- All stainless steel internal components for maximum corrosion resistance.
- Available with Nitrile, FKM, or FFKM valve seals.
- Large seating surface for superior seal performance & reliability.
- Available with 250 & 265 PSI UL LISTED set pressures.
- Custom set pressures available

Part No.	STD/ PSIG	Container Connection	Flow Capacity SCFM/ Air (2) UL @ 120% Set Pressure	Seat Material (1)	Accessories Cap
MEV300FIR-3F/250 (4)	250	3" 300LB. Flange	10,865	Nitrile	MEV300FIR-09
MEV300FIR-3F/265	265	3" 300LB. Flange	11,600	Nitrile	
MEV300FIRV-3F/250	250	3" 300LB. Flange	10,865	FKM	
MEV300FIRV-3F/265	265	3" 300LB. Flange	11,600	FKM	
MEV300FIRK-3F/250	250	3" 300LB. Flange	10,865	FFKM (3)	
MEV300FIRK-3F/265	265	3" 300LB. Flange	11,600	FFKM ~	

(1) FFKM not UL Listed
(2) Flow rates are shown for bare relief valves.
(3) Recommended for LPG and NH3 Dual Service Applications
(4) For NH_3 use add "HN" after the prefix for hydrogenated nitrile part number - i.e. MEV300FIRHN-3F/250
NOTE: Size relief capacity per NFPA Code #58, Table 5.9.2.6 (2017 Edition)

UNIVERSAL RELIEF VALVE COVERS

These covers are intended to protect both internal & external relief valves ranging in size from 1/2" to 1-1/4" NPT from moisture and/or other possible contaminants. Using the universal "shower cap" style relief valve covers will allow technicians to carry two sizes that will protect the majority of domestic tank relief valves.

FEATURES

- Made with durable UV stable yellow vinyl material
- Fits 1/2" to 1-1/4" NPT internal and external relief valves

MEH502

MEH503

Part No.	Description	Material
MEH502	Adjustable Relief Valve Cover 1/2" to 3/4"	Yellow Vinyl
MEH503	Adjustable Relief Valve Cover 3/4" to 1-1/4"	Yellow Vinyl

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HYDROSTATIC PRESSURE RELIEF VALVES

Designed to protect piping and shutoff valves from over pressure situations where liquid gases has the potential to be trapped. These relief valves provide pressure relief at or in excess of the stated pressure setting, protecting against line or plumbing system failures.

NOTE: NFPA #58 states, "Hydrostatic relief valves designed to relieve the hydrostatic pressure that can develop in sections of liquid piping between closed shutoff valves shall have pressure settings not less than 400 psig or more than 500 psig unless installed in systems designed to operate above 350 psig. Hydrostatic relief valves for use in systems designed to operate above 350 psig shall have settings not less than 110 percent or more than 125 percent of the system design pressure."

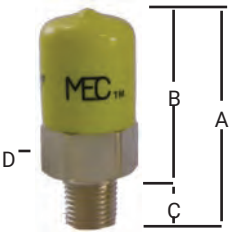
FEATURES

- Compact design to fit any application
- Stainless steel spring
- Non-adjustable, tamper resistant design
- Specially designed internal components to increase flow at discharge

MEH225SS MEH25 MEH50 MEH75

Part No.	Body Material	Seal Material	Start-to-Discharge Setting PSIG	Inlet MNPT	A	B	C	D	Accessory Pipeaway Adapter
MEH225	Brass	Nitrile	440	1/4"	1-1/16"	13/16"	1/4"	9/16" Hex	–
MEH225SS/350	Stainless Steel	Nitrile	350 (4)	1/4"	1-1/16"	13/16"	1/4"	9/16" Hex	–
MEH225SS/400	Stainless Steel	Nitrile	400	1/4"	1-1/16"	13/16"	1/4"	9/16" Hex	–
MEH225SS	Stainless Steel	Nitrile	440	1/4"	1-1/16"	13/16"	1/4"	9/16" Hex	–
MEH25/450	Brass	Nitrile	450	1/4"	1-59/64"	1-43/64"	1/4"	7/8" Hex	MEP173 (1)
MEH25K/450	Brass	FFKM	450	1/4"	1-59/64"	1-43/64"	1/4"	7/8" Hex	MEP173 (1)
MEH25V/450	Brass	FKM	450	1/4"	1-59/64"	1-43/64"	1/4"	7/8" Hex	MEP173 (1)
MEH50/460	Brass	Nitrile	460	1/2"	2-1/2"	2-1/8"	3/8"	1-1/8" Hex	MEP174 (2)
MEH75/460	Brass	Nitrile	460	3/4"	2-21/32"	2-5/32"	1/2"	1-1/8" Hex	MEP174 (2)
MEJ602H (3)	Brass	Nitrile	440	1/4"	–	–	–	–	–

(1) 1/4" FNPT Outlet; (2) 1/2" FNPT Outlet; (3) Factory Installed Vent Valve, (4) Special Applications



MEP173

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UNIVERSAL RELIEF VALVE COVERS

These protective caps are made of durable, fade resistant vinyl. All relief valves must have a protective cap to keep debris and water out of the valve.

MEH501

Part No.	Cap ID	Cap Height	Replacement Protective Cap for Part No.
MEH501-.437	.437"	3/8"	MEH225 MEH225SS Series
MEH501-.812	.812"	1"	MEH25/450
MEH501-1.062	1.062"	3/4"	MEH50/460 MEH75/460
MEH501-1.5	1.50"	1"	–

Part No.	Cap ID	Cap Height	Replacement Protective Cap for Part No.
MEH501-1.75	1.75"	1"	–
MEH501-2.25	2.25"	1"	–
MEH501-2.625	2.625"	1"	–
MEV250-013 (1)	3.974	1/2"	MEV250 Series

(1) With Lanyard

MULTI-PURPOSE VALVES

Intended for use as a high capacity filler valve with a manual shut-off device in gas containers. These valves can be equipped with either a soft seat back check or excess flow feature that is internal to the container. The excess flow version can also be used as a vapor equalizing valve typically found in NH_3 applicators and nurse tank applications.

NOTE: For proper operation and performance of the excess flow feature the manual shutoff must be completely open and back seated.

ME670DBC

ME670DEX

FEATURES

- Plated ductile iron body with 1/4" NPT auxillary plugged port
- All stainless steel internal construction for maximum corrosion resistance
- Supplied with ACME cap & chain assembly
- V-cup PTFE packing stem seals
- Rated 400 PSI / WOG
- Removable data plate

MEC Multipurpose Filler / Withdrawal Valves								
Part No.	Inlet (MNPT)	Fill Connection (M. Acme)	(1) GPM/LPG Fill Capacity	Approximate Excess Flow Closing Flow		Back Check	Accessories	
				(1) Liquid GPM/LPG	(2) Vapor SCFH/LPG		Hydrostatic Relief	Vent Valve
ME670DBC	1-1/4"	1-3/4"	100	N/A	N/A	Yes	MEH225	MEJ400
							MEH225SS	MEJ402S
ME670DEX	1-1/4"	1-3/4"	100	58	27,000	No	MEH225	MEJ400
							MEH225SS	MEJ402S

The ME671DIBC is equipped with an integrated back check (IBC) feature built into the lower portion of the seat disc assembly. This feature allows liquid pressure built upstream of the shut-off disc assembly to automatically be relieved back to the container when line pressures exceed 10-25 PSI over container pressure. The (IBC) feature greatly reduces product emissions and increases overall system safety.

ME671D-8

ME672D

Part No.	Inlet (MNPT)	Withdrawal (FNPT)	Approximate Excess Flow Closing Flow Liquid GPM/ LPG (1)	Integrated Back Check	Accessories	
					Hydrostatic Relief	Vent Valve
ME671DIBC-6	1-1/4"	3/4"	50	Yes	N/A	MEJ400
					N/A	MEJ402S
ME671DIBC-8	1-1/4"	1"	58	Yes	N/A	MEJ400
					N/A	MEJ402S
ME671D-6	1-1/4"	3/4"	50	No	MEH225	MEJ400
					MEH225SS	MEJ402S
ME671D-8	1-1/4"	1"	58	No	MEH225	MEJ400
					MEH225SS	MEJ402S
ME672D	1-1/4"	1"	78	No	MEH225	MEJ400
					MEH225SS	MEJ402S

BUILT & TESTED IN THE USA

MULTI-PURPOSE FILLER/WITHDRAWAL VALVES

Intended for use as a high capacity combination filler and liquid withdrawal valve with a manual shut off device in gas containers. These valves can be equipped with either a soft seat back check or excess flow feature that is internal to the container. Ideally suited for use in dispensing applications as a dual purpose high capacity tank filler valve as well as a liquid return line from the pump bypass valve.

NOTE: For proper operation and performance of the excess flow feature the manual shutoff must be completely open and back seated.

BUILT & TESTED IN THE USA

FEATURES

- Plated ductile iron body with 1/4" NPT auxillary plugged port
- All stainless steel internal construction for maximum corrosion resistance
- Supplied with ACME cap & chain assembly
- V-cup PTFE packing stem seals
- Rated 400 PSI / WOG
- Removable data plate

Part No.	Inlet (MNPT)	Fill Connection (M. Acme)	Withdrawal (FNPT)	(1) Fill Capacity GPM/LPG	Approximate Excess Flow Closing Flow		Back Check	Accessories	
					Liquid GPM/LPG	Vapor SCFH/LPG		Hydrostatic Relief	Vent Valve
ME673DEX-6	1-1/4"	1-3/4"	3/4"	100	58	27,000	No	MEH225	MEJ400
								MEH225SS	MEJ402S
ME673DEX-8	1-1/4"	1-3/4"	1"	100	58	27,000	No	MEH225	MEJ400
								MEH225SS	MEJ402S
ME673DBC-6	1-1/4"	1-3/4"	3/4"	100	N/A	N/A	Yes	MEH225	MEJ400
								MEH225SS	MEJ402S
ME673DBC-8	1-1/4"	1-3/4"	1"	100	N/A	N/A	Yes	MEH225	MEJ400
								MEH225SS	MEJ402S

UNDERGROUND TANK CLUSTER MANIFOLD

These multi-purpose valves are designed for use on domestic ASME underground tanks that require a single opening except for a separate liquid withdrawal port.

Part No.	Container Connection	Filling Connection	Service Connection Size	Closing Flow	Gauge Flange Opening	Pressure Relief Valve Setting	Relief Valve Capacity	Fixed Liquid Level Type
MES-PVE2098AT	2-1/2" FNPT	1-3/4" ACME	F. POL	4000 CFH @ 100 PSIG	Fits "Junior" Size	250 PSIG	1740 SCFM/air	MEJ400C
MES-PVE2098ATSC						250 PSIG		MEJ400SC
MES-PVE2098PT (1)				4000 CFH @ 100 PSIG	Fits "Junior" Size	250 PSIG	1740 SCFM/air	MEJ400C
MES-PVE2098PTSC (1)						250 PSIG		MEJ400SC

(1) Includes ME460 Liquid withdrawal valve packed seperately in carton.

BUILT & TESTED IN THE USA

MES-PVE2098AT

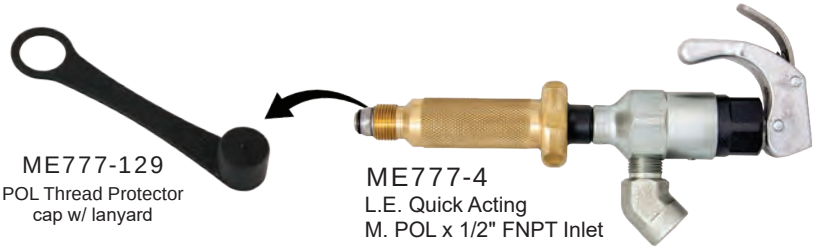
FEATURES

- Epoxy coated ductile iron manifold
- Durable o-ring service valve packing
- Easy to repair / replace bonnet
- Supplied with 30" diptube that can be cut to length
- Standard 1/4" NPT plugged gauge port
- Optional LE vent valve available

QUICK ACTING HOSE END VALVES

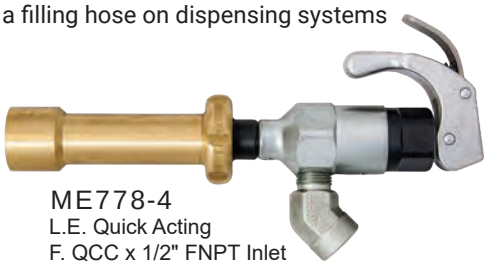
HIGH FLOW LOW EMISSION

These quick acting hose end valves are leading the industry in minimal product loss during disconnect without sacrificing flow. They have instant full-on flow with the added protection of a quick closing, self-locking handle to prevent accidental opening of the valve during handling or storage. They are designed to be used at the end of a filling hose on dispensing systems equipped for filling containers with QCC Type I OPD or F. POL type valves.



ME777-129
POL Thread Protector
cap w/ lanyard

ME777-4
L.E. Quick Acting
M. POL x 1/2" FNPT Inlet



ME778-4
L.E. Quick Acting
F. QCC x 1/2" FNPT Inlet

PATENT
#9,010,814

ME779N-4
L.E. Quick Connect Filler
F. QCC x 1/2" FNPT Inlet

BUILT & TESTED
IN THE USA

FEATURES

- All stainless steel internal component construction
- Molded then retained and captured for field repair-ability on valve main seal
- Vents less than .04 cc for minimal loss of product at disconnect
- Self-locking toggle handle prevents accidental valve opening
- Toggle handle and stem assembly rotate 360° for maximum ergonomic flexibility and comfort
- Available in Male POL and Female Type I / QCC fill connections
- Type I F. QCC features composite quick connect option for easy on/off and reduced repetitive motion

LESS THAN .04CC LOSS AT DISCONNECT!

ME777
M. POL

ME778
F. QCC

ME779N
F. QCC Quick Connect Filler

1/2" High Flow Low Emission Quick Acting Hose End Valves								
Part No.	Description	Inlet	Outlet	Propane Flow @ 10 PSIG Pressure Differential	Propane Flow @ 30 PSIG Pressure Differential	Handle Style	Handle Material	Accessories
ME777-4	Male SN POL Filler Valve with thread cap	1/2" FNPT	M. POL	5.2	10.4	Spin on	Brass	ME777-129 thread cap
ME778-4	Female QCC (Type I) Filler Valve	1/2" FNPT	F. QCC	5.2	10.4		Brass	–
ME779-4	Heavy Duty Female QCC Quick Connect Filler Valve	1/2" FNPT	F. QCC	5.2	10.4	Quick Connect	Aluminum	–
ME779N-4	Female QCC Quick Connect Filler Valve	1/2" FNPT	F. QCC	5.2	10.4		Composite	–
3/4" High Flow Low Emission Quick Acting Hose End Valves								
Part No.	Description	Inlet	Outlet	Propane Flow @ 10 PSIG Pressure Differential	Propane Flow @ 30 PSIG Pressure Differential	Handle Style	Handle Material	Accessories
ME777-6	Male SN POL Filler Valve with thread cap	3/4" FNPT	M. POL	5.2	10.4	Spin on	Brass	ME777-129 ME850SS-6
ME778-6	Female QCC (Type I) Filler Valve	3/4" FNPT	F. QCC	5.2	10.4		Brass	ME850SS-6 Swivel
ME779-6	Heavy DutyFemale QCC Quick Connect Filler Valve	3/4" FNPT	F. QCC	5.2	10.4	Quick Connect	Aluminum	
ME779N-6	Female QCC Quick Connect Filler Valve	3/4" FNPT	F. QCC	5.2	10.4		Composite	

TYPE I (QCC) QUICK FILLER COUPLING

Designed to provide a fast, reliable connection for filling cylinders with Type I (QCC) style valves. The snap on/snap off design is intended to reduce labor and repetitive motion associated with threaded type filler couplings. This easy to operate filler coupling is durable, lightweight and will withstand the harshest working conditions while reducing cylinder valve thread wear.

NOTE: A quick closing shutoff valve must be used with this coupling.

PATENT #9,010,814

ME791CJ
Not Included

FEATURES

- Durable glass filled nylon handle
- Easy to use **snap on/snap off** action for quick fill operation
- All stainless steel internal components
- Large bore stainless steel stem for increased flow
- Right or left hand operation
- Universal filler connection for all Type I (QCC) service valves

Part No.	Inlet	Outlet
ME796	1/4" MNPT	1-5/16" Female Acme Quick Connect

BUILT & TESTED IN THE USA

TYPE I (QCC) QUICK FILLER COUPLINGS & ADAPTERS

These full size **Type I (QCC) filler couplings** make filling DOT propane cylinders with a QCC connection quick and easy. Just a few turns allows the filler to attach and remove the coupling with minimal effort and loss of product. A longer body allows the filler coupling handle to remain outside the fixed collar of a cylinder. Can be used on a manual, electric or hydraulic system. In a manual system a shutoff valve (ME791C, ME791CJ, ME792C or ME792CJ) should be used with the filler coupling.

WARNING: It is illegal to fill a 40 pound or less DOT propane cylinder that has a standard POL connection.

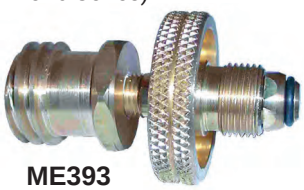
Part No.	Inlet	Outlet	Handle Style	Body/Nipple Material	OAL
ME515	1/4" MNPT	1-5/16" Female Acme	Knurled	Brass/Brass	7"
ME516	1/4" MNPT	1-5/16" Female Acme	Heavy Duty Forged	Brass/Brass	6"
ME516S	1/4" MNPT	1-5/16" Female Acme	Heavy Duty Forged	Brass/Stainless Steel	6"

ME516S

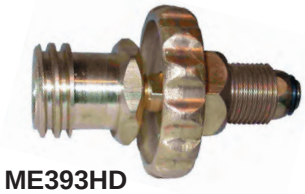
ME515

The Type I (QCC) thread replaces the POL connection on 40 pound or less DOT propane cylinders. Marshall Excelsior has developed numerous adapters to allow quick conversion from Type I (QCC) to different fill applications for retailers who fill both 40 pound or less and larger propane cylinders through the same line. Simply hand tighten the adapter to the Type I (QCC) filler coupling (ME515 or ME516 Series).

BUILT & TESTED IN THE USA



ME393



ME393HD

ME394

ME569

Part No.	Inlet	Outlet	Handle Style	Converts Type 1 (QCC) Filler Coupling to
ME393	1-5/16" Male Acme/Female POL	Male Soft Nose POL	Knurled	POL Filler Coupling
ME393HD	1-5/16" Male Acme/Female POL	Male Soft Nose POL	Heavy Duty Forged	POL Filler Coupling
ME394	1-5/16" Male Acme/Female POL	1-1/4" Female Acme	Knurled	Motor Fuel Filler Coupling
ME569	1-5/16" Male Acme/Female POL	1-3/4" Female Acme	Knurled	Tank Filler Coupling

POL FILLER COUPLINGS & ADAPTERS

These POL filler couplings make filling DOT propane cylinders with a POL connection quick and easy. A few turns allow the soft nose POL to seal and unseal from the mating POL connection with minimal effort and loss of product. The long body models allow the filler coupling handle to remain outside the fixed collar of the cylinder. Can be used on manual, electric or hydraulic system. In a manual system a shutoff valve (ME791C, ME791CJ, ME792C or ME792CJ) should be used with the filler coupling.

ME390

ME388

ME390S

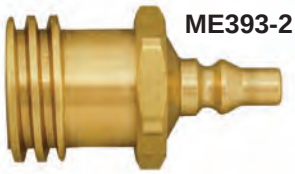
Part No.	Inlet	Outlet	Handle Style	Body/Nipple Material	OAL	Accessories
ME388	1/4" MNPT	Male Soft Nose POL	Knurled - 2" Dia.	Bass/Brass	2-11/16"	—
ME390	1/4"MNPT	Male Soft Nose POL	Heavy Duty Forged	Brass/Brass	6"	ME777-129 thread cap
ME390S	1/4" MNPT	Male Soft Nose POL	Heavy Duty Forged	Brass/Stainless Steel	6"	

These adapters allow for quick conversion from a POL connection to various filling applications for retailers who fill multiple cylinder types through the same Type I (QCC) connection. Simply hand tighten the adapter to the POL filler connection (ME388 or ME390 Series).

The **ME393-2** allows for quick conversion from M. QCC (ME516) or F. POL (ME390) Fill Adapter to a Male Type II / Quick Fill Connector.

ME392

ME394



ME393-2

ME568

Part No.	Inlet	Outlet	Handle Style	Converts POL Filler Coupling to
ME392	Female POL	1-5/16" Female Acme	Knurled	Type I (QCC) Filler Coupling
ME393-2	Female POL	1-5/16" Male Acme	—	Male Type II / Quick Fill Connector
ME394	1-5/16" Male Acme/Female POL	1-1/4" Female Acme	Knurled	Motor Fuel Filler Coupling
ME568	Female POL	1-3/4" Female Acme	Knurled	Tank Filler Coupling

* Replacement M. QCC/F. POL gasket - Part No. MEW3

BUILT & TESTED IN THE USA

LIQUID METHANOL INJECTOR

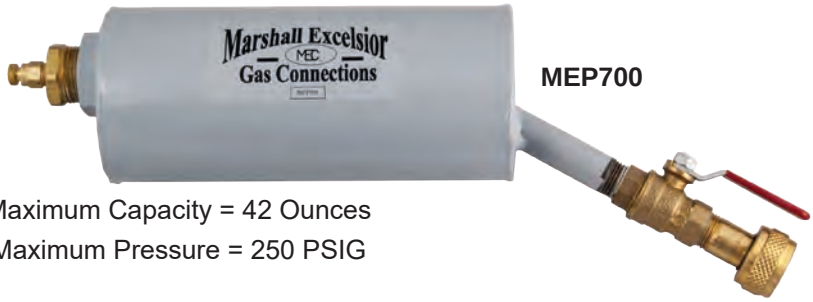
This gravity fed methanol injector provides a fast and efficient method to inject methanol into stationary ASME containers to help prevent condensation from freezing in the propane system.

WARNING: Never attempt to refill injector with methanol while connected to a propane container. In order for the tank and methanol injector vapor equalization to occur, no more than 42 ounces of methanol can be contained within the methanol injector.

BUILT & TESTED IN THE USA

FEATURES

- Spark resistant brass connectors and valve
- Durable steel construction body
- Automotive grade powder coat finish for maximum corrosion resistance
- For use with all multi-valve applications or where vapor recovery systems are in place



MEP700

Maximum Capacity = 42 Ounces
Maximum Pressure = 250 PSIG

Part No.	Vapor Connection	Description
MEP700	1-1/4" Female Acme	Assembly
MEP700-01	––	Body Only

CYLINDER VALVE WRENCHES

Designed to remove or install Type I (QCC)/OPD cylinder valves or POL service valves without damage to the valve base.

Part No.	Thread	Style
MEP121	Male POL	POL
MEP122	1-5/16" Female Acme	Type I (QCC)/ OPD

BUILT & TESTED IN THE USA

MEP121

MEP122

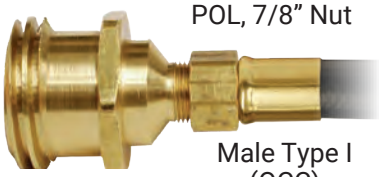
HIGH FLOW THERMOPLASTIC HOSES - 1/4” HOSE ID

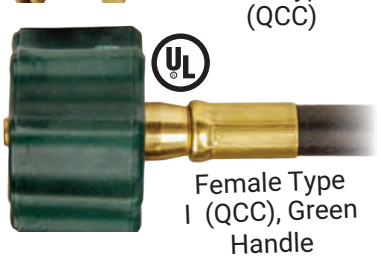
Part No. 1/4” Hose ID	Approximate Length “X”*	Connection	Connection
MER409-”X”	15, 20, 24, 36, 60	Male Hard Nose POL, 7/8” Nut	Male Hard Nose POL, 7/8” Nut
MER428-”X”	60, 120	Female QCC, Type I Connection	Male QCC, Type I Connection with Female POL
MER412-”X”**	20	.9 GPM Excess Flow Male Hard Nose POL, 7/8” Nut	.9 GPM Excess Flow Male Hard Nose POL, 7/8” Nut
MER425-”X”**	12, 15, 18, 20, 24, 30, 36, 48, 60	Female QCC, Type I Connection	1/4” Male Inverted Flare
MER427-”X”	20	Female QCC, Type I Connection	3/8” Female Flare Swivel
MER403-”X”**	12, 15, 18, 20, 24, 30, 36, 48, 60, 72, 120, 240	Male Hard Nose POL, 7/8” Nut	1/4” Male Inverted Flare
MER401-”X”**	12, 15, 18, 20, 24, 30, 36, 48, 60	.9 GPM Excess Flow Male POL, 7/8” Nut	1/4” Male Inverted Flare
MER423-”X”	15, 20, 24, 30, 36	.9 GPM Excess Flow Male Soft Nose POL, Plastic Handwheel	1/4” Male Inverted Flare
MER404-”X”	15, 18, 20, 24, 36	#60 Orifice Hole Male Soft Nose POL, Plastic Handwheel	1/4” Male Inverted Flare
MER404AR-”X”	18, 24, 36	#60 Orifice Hole Male Soft Nose POL, Brass Round Handwheel	1/4” Male Inverted Flare
MER406AR-”X”	12, 24, 36, 48, 60	Male Soft Nose POL, Brass Round Handwheel	1/4” MNPT
MER405-”X”	12, 15, 18, 20, 24, 30, 36, 48, 60	.9 GPM Excess Flow Male POL, 7/8” Nut	1/4” MNPT
MER414-”X”	10, 14, 120	1/4” MNPT	1/4” MNPT
MER422-”X”	6, 240	1/4” Female Flare Swivel	1/4” MNPT
MER434-”X”	36, 50	3/8” Female Flare Swivel	1/4” MNPT
MER429-”X”	60,120	Red Female QCC, Type I Connection	Male QCC, Type I Connection with Female POL
MER426-”X”	12, 15, 20, 24, 36, 60	Female QCC, Type I Connection	1/4” MNPT
MER410-”X”**	10, 12, 20, 24, 30, 36, 48, 60, 72, 120, 144, 180	3/8” MNPT	3/8” Female Flare Swivel
MER413-”X”**	24, 36, 48, 60, 72, 96, 120, 144, 180	3/8” Female Flare Swivel	3/8” Female Flare Swivel
MER408-”X”	12, 36, 60, 72, 144, 288	9/16”-18 Female Left Hand Swivel	9/16”-18 Female Left Hand Swivel
MER407-”X”	24, 36, 48, 60, 72, 120, 144	#60 Orifice Hole Male Soft Nose POL, Plastic Handwheel	1”-20 Male Swivel
MER421-”X”	24, 48, 60, 72, 144	1”-20 Female Swivel	1”-20 Male Swivel

* Replace “X” with the desired hose length i.e. MER409-24
** cULus Listed for lengths up to 60”


Male Soft Nose POL, Plastic Handwheel


Male Hard Nose POL, 7/8” Nut


Male Type I (QCC)

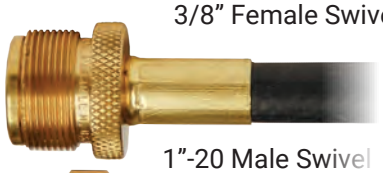

Female Type I (QCC), Green Handle


1/4” Male Inverted Flare


MNPT


9/16”-18 Female LH


3/8” Female Swivel


1”-20 Male Swivel


1”-20 Female Swivel

BUILT & TESTED IN THE USA

COPPER PIGTAILS & HOGTAILS

These pigtail and hogtail assemblies come with two brass connectors brazed onto a heavy wall annealed copper tube with a 250 psig pressure rating. The 1/4" and 3/8" tube have a pull test rating of 500 and 750 pounds respectively. UL LISTED and tested in accordance with UL 569.

Different applications require specific pigtail and hogtail assemblies. Special attention is required when ordering to ensure the proper assembly is purchased for the intended application. Marshall Excelsior recommends every new installation or replacement regulator have a new pigtail installed.

***ME1600D Series Dielectric pigtails/ hogtails** are intended to isolate metallic piping from sources of electrical current and to help prevent galvanic corrosion when used on underground containers. The ME1600D dielectric pigtail/ hogtail would typically be installed at the ASME tank directly upstream of the first stage regulator prior to underground piping, isolating the underground metallic piping from electric current.

Description	Approx. Length	Part No.			
		1/4" Tube OD		3/8" Tube OD	
		Long Nip ple	Short Nipple	Long Nipple	Short Nipple
Male Hard Nose POL x Male Hard Nose POL, 7/8" Nut	6	–	ME1664-06	ME1680L-06	ME1680-06
	12	ME1662-12*	ME1664-12*	ME1680L-12*	ME1680-12*
	20	ME1662-20*	ME1664-20*	ME1680L-20*	ME1680-20*
	30	ME1662-30	ME1664-30	ME1680L-30	ME1680-30
	36	ME1662-36	ME1664-36	ME1680L-36	ME1680-36
	48	ME1662-48	ME1664-48	ME1680L-48	ME1680-48
Male Hard Nose POL x Male Hard Nose POL, 1-1/8" Nut	20	ME1660-20	–	–	ME1680HD-20
	30	ME1660-30	–	–	–
	36	ME1660-36	–	–	–
	48	ME1660-48	–	–	–
1/4" Male Inverted Flare x Male Hard Nose POL, 7/8" Nut	15	–	ME1665-15	–	–
	20	ME1663-20	ME1665-20	–	–
	30	ME1663-30	ME1665-30	–	–
	36	ME1663-36	ME1665-36	–	–
	48	ME1663-48	ME1665-48	–	–
1/4" Male Inverted Flare x Male Hard Nose POL, 1-1/8" Nut	20	ME1661-20	–	–	–
	30	ME1661-30	–	–	–
	36	ME1661-36	–	–	–
	40	ME1661-40	–	–	–
	48	ME1661-48	–	–	–
1/4" MNPT x Male Hard Nose POL, 7/8" Nut	6	ME1679-06	ME1669-06	–	ME1689-06
	12	ME1679-12*	ME1669-12*	ME1689L-12	ME1689-12
	18	ME1679-18	ME1669-18*	–	–
	20	ME1679-20*	ME1669-20	ME1689L-20	ME1689-20
	30	ME1679-30	ME1669-30	ME1689L-30	ME1689-30
	36	ME1679-36	ME1669-36	–	ME1689-36
	48	ME1679-48	ME1669-48	–	ME1689-48
1/4" MNPT x Male Hard Nose POL, 1-1/8" Nut	20	ME1679HD-20	–	–	–
	48	ME1679HD-48	–	–	–
1/2" MNPT x Male Hard Nose POL, 7/8" Nut	12	–	–	ME1684L-12	ME1684-12
	20	–	–	ME1684L-20	ME1684-20

* Note: Dielectric option available. Add "D" after the prefix part number i.e. ME1662D-12

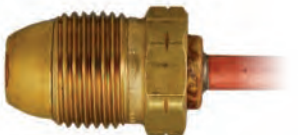
BUILT & TESTED IN THE USA

Long Nipple

Short Nipple

1/4" Inverted Flare

1/4" MNPT



Male Hard Nose POL, 7/8" Nut

Dielectric version

	Part No.	Description
Acme Adapters	ME251-02	3-1/4" Acme Screen
	ME251-03	3-1/4" Acme Retaining Ring for Screen
Acme Gaskets	MEW4	1-1/4" Acme Flat Gasket for Motor Fuel
	MEW3	1-1/4" Acme Flat Gasket
	MEW2	1-3/4" Acme Flat Gasket
	MEW5	2-1/4" Acme Flat Gasket
	MEW6	3-1/4" Acme Flat Gasket
	MEW7	4-1/4" Acme Flat Gasket
Back Check Valves	ME868-16-05	Universal 1-1/4" - 2" Replacement Excela-Flange™ O-Ring
	ME870-6-06	3/4" Back Check Valves O-ring
	ME870-10-06	1-1/4" Back Check Valves O-ring
	ME870-16-06	2" Back Check Valves O-ring
	ME870-24-06	3" Back Check Valves O-ring
Bypass Valves (High Flow)	ME840-6K	3/4" & 1" High Flow Bypass Complete Repair Kit - Less Spring
	ME840-6SRK	3/4" & 1" High Flow Bypass Complete Seal Repair Kit
	ME840-8-108-60	3/4" & 1" High Flow Bypass Valve Replacement Spring 25-60 PSI (Blue)
	ME840-8-108-150	3/4" & 1" High Flow Bypass Valve Replacement Spring 50-150 PSI (Green)
	ME840-8-108-225	3/4" & 1" High Flow Bypass Valve Replacement Spring 100-225 PSI (Red)
	ME870-24-06	3/4" & 1" High Flow Bypass Valve Replacement Bonnet O-Ring
	ME840CK	1-1/4" - 2" Classic Poppet with Nitrile O-rings Complete Repair Kit
	ME840CVK	1-1/4" - 2" Classic Poppet with FKM O-rings Complete Repair Kit
	ME840K	1-1/4" - 2" Standard Poppet with Nitrile O-rings Complete Repair Kit
	ME840VK	1-1/4" - 2" Standard Poppet with FKM O-rings Complete Repair Kit
	ME840SRK	1-1/4" - 2" High Flow Bypass Seal Repair Kit
	ME840-16-108-40	1-1/4" - 2" High Flow Bypass Valve Spring 20-40 PSI (Blue)
	ME840-16-108-70	1-1/4" - 2" High Flow Bypass Valve Spring 41-70 PSI (Green)
	ME840-16-108-90	1-1/4" - 2" High Flow Bypass Valve Spring 71-90 PSI (Yellow)
	ME840-16-108-125	1-1/4" - 2" High Flow Bypass Valve Spring 91-125 PSI (Orange)
	ME840-16-108-150	1-1/4" - 2" High Flow Bypass Valve Spring 126-150 PSI (Red)
	ME868-16-05	1-1/4" - 2" Universal 4 Bolt Flange O-Ring
	ME840-16-109	1-1/4" - 2" Universal Bonnet O-Ring
	ME840-16-110	1-1/4" - 2" Universal Spring Guide O-Ring
	ME840-16-104	1-1/4" - 2" Universal Valve Poppet - Stainless Steel
	ME840C-16-104	1-1/4" - 2" Classic Style Valve Poppet - Stainless Steel
	ME840-24K	3" High Flow Bypass Complete Repair Kit - Less Spring
	ME840-24SRK	3" High Flow Bypass Seal Repair Kit
	ME840-24-105-75	3" High Flow Bypass Valve Spring 25-75 PSI
	ME840-24-105-100	3" High Flow Bypass Valve Spring 50-100 PSI
	ME840-24-105-200	3" High Flow Bypass Valve Spring 100-200 PSI
	ME904SK-24	3"-300# Bypass Valve Spiral Ring Flange Gasket - Carbon Steel
	ME980SK-24	3"-300# Bypass Valve Flange Stud Kit
Combination Valves	ME815K	Bonnet Assembly for ME830
	MEP449S-101	Replacement Protective Weather Boot
Dispensing Filter (LPG/NH3 - High Flow)	ME680-8-ERK	1" High Capacity Replacement Filter Element Kit - includes element, o-rings & lubricant
Dispensing Valves (Quick-Acting)	ME800-HRK	ME800, ME810, and ME820 Series Handle Repair Kit

	Part No.	Description
ESV Emergency Shutoff Valves	ME980-903K	1-1/4”-3” ESV Cable Latch Assembly
	ME980-904K	1-1/4”-3” ESV Pneumatic Latch Assembly
	ME980-905	Universal Thermally Activated Remote Cable Release Mechanism
	ME980-905-25	Universal Thermally Activated Remote Cable Release Mechanism w/ 25’ Cable
	ME980-905-50	Universal Thermally Activated Remote Cable Release Mechanism w/ 50’ Cable
	ME980-906-25	Universal Remote Release Cable - 25’
	ME980-906-50	Universal Remote Release Cable - 50’
	ME980-907	Remote Thermally Activated Elbow 1/4” CC Inlet - For Pneumatic Latch Systems
	ME980HRK	1-1/4”-3” ESV Replacement Handle Assy.
	ME980PGA	1-1/4”-3” ESV Packing Gland Assembly
	ME980-6K	3/4” - 1” ESV Complete Repair Kit
	ME980-6SRK	3/4” - 1” ESV Valve Seal Repair Kit
	ME980-6-902	ESV Valve Pneumatic Release Replacement Kit
	ME980-6-903	ESV Valve Cable Release Replacement Kit
	ME980-10-901	1-1/4” Replacement (ESV) & Back Check Valve Clapper Assy.
	ME980-16-901	2” Replacement (ESV) & Back Check Valve Clapper Assy.
	ME980-24-901	3” Replacement (ESV) & Back Check Valve Clapper Assy.
	ME980-10K	1-1/4” (ESV) Complete Valve Repair Kit
	ME980-16K	2” (ESV) Complete Valve Repair Kit
	ME980-24K	3” (ESV) Complete Valve Repair Kit
	ME980-10SRK	1-1/4” (ESV) Seal Repair Kit
	ME980-16SRK	2” (ESV) Seal Repair Kit
	ME980-24SRK	3” (ESV) Seal Repair Kit
Excess Flow Valves (Excela-Flange™)	MEP873-102	Replacement Torque Posts
External Pressure Relief Valves	MEPS-UT12X	Replacement Poly Cap for MEVS-PVE431 & 431B
	MEPS-431	1” FNPT Pipeaway Adapter for MEVS-PVE431 & 431B
	MEV250-015	MEV250 Series Stainless Steel Weep Hole Deflector
	MEV250-013	Relief Valve Dust Cap with Lanyard
Fill Check Adapters	ME571-06	Replacement Plastic Spacer Ring For ME571
	ME571-2-03	Replacement Nose Gasket For ME571
Float Gauges (Accu-Max)	MES-1284-21-1	Universal ASME/DOT lift truck float gauge dial screw
	ME930-905	ME930 Series 4” DOT Dial—Glow/Black
	ME930-211	ME930/940 Series Float Bulb
	ME930C-905	ME930 Series 4” DOT Dial—Silver/Black
	ME940-905	ME940 Series 8” ASME Dial—Glow/Black
	ME940C-905	ME940 Series 8” ASME Dial—Silver/Black
Flow Indicating Check Valve	ME981-901	1-1/4” - 3” Replacement Swing Check Indicator Dial
Fuse Plugs	ME205-013	1/8” MPT Thermal Safety Plug
	ME206-09	3/8 MPT Thermal Safety Plug 212 Deg
Fill Check Adapters	ME571-06	Replacement Plastic Spacer Ring For ME571
	ME571-2-03	Replacement Nose Gasket For ME571
	ME516S-01	6” Male Hard Nose POL x 1/4” MNPT Stem—Stainless Steel
	ME516-2H	1-5/16” F. Acme Extension with Forged Handle

	Part No.	Description
Globe & Angle Valves	ME815K	1/2”, 3/4” & 1” Angle & Globe Valve Complete Bonnet Assembly
	ME815-10BRK	1-1/4” & 1-1/2” Angle & Globe Valve Complete Bonnet Assembly
	ME815-10SRK	1-1/4” & 1-1/2” Angle & Globe Valve Replacement Seal Repair Kit
	ME815-10/16HRK	1-1/4”, 1-1/2” & 2” Angle & Globe Valve Replacement Handle & Retaining Nut
	ME815-16BRK	2” Angle & Globe Valve Complete Bonnet Assembly
	ME815IBC-16BRK	2” Angle & Globe Valve with Integrated Back Check Complete Bonnet Assembly
	ME815P-16BRK	2” Angle & Globe Valve with Pilot Complete Bonnet Assembly
	ME815-16SRK	2” Angle & Globe Valve Replacement Seal Repair Kit
	ME815IBC-16SRK	2” Angle & Globe Valve with Integrated Back Check Replacement Seal Repair Kit
	ME815P-16SRK	2” Angle & Globe Valve with Pilot Replacement Seal Repair Kit
	ME815-24BRK	3” Angle & Globe Valve Replacement Bonnet Assembly
	ME815-24SRK	3” Angle & Globe Valve Replacement Seal Kit
	ME815-24HRK	3” Angle & Globe Valve Replacement Handle Kit
	ME825-3F-BRK	3” Flanged Globe Valve Complete Bonnet Repair Kit
	ME825-3F-SRK	3” Flanged Globe Valve Seal Repair Kit
	ME825-4F-BRK	4” Flanged Globe Valve Complete Bonnet Repair Kit
	ME825-4F-SRK	4” Flanged Globe Valve Seal Repair Kit
	ME980SK-24	3” & 4”-300LB ESV & Globe Valve Flange Stud Kit
	ME904S-3F-027	3”-300 LB Spiral Ring Flange Gasket-Carbon Steel
	ME904S-4F-027	4”-300 LB Spiral Ring Flange Gasket-Carbon Steel
Hose Clamps	ME3162-08-02K	1 Pair 1/2” Hose Clamps & Bolts
	ME3162-12-02K	1 Pair 3/4” Hose Clamps & Bolts
	ME3162-16-02K	1 Pair 1” Hose Clamps & Bolts
	ME3162-20-02K	1 Pair 1-1/4” Hose Clamps & Bolts
	ME3162-24-02K	1 Pair 1-1/2” Hose Clamps & Bolts
	ME3162-32-02K	1 Pair 2” Hose Clamps & Bolts
Hose End Holster	MEP801-03	MEP801 Series Black Urethane Holster Sleeve
	MEP801-04	MEP801 Series Black Urethane Holster Strap
Hose End Swivel	ME850SS-K	Seal Repair Kit
Hose End Valves	ME800-HRK	ME800 and ME800EXT Series Handle Repair Kit
	ME800-LSRK	ME800 and ME800EXT Series Lower Seal Repair Kit
	ME800-SARK	ME800 and ME800EXT Series Stem Assembly Repair Kit
	ME800-USRK	ME800 and ME800EXT Series Upper Seal Repair Kit
Hose End Valves (Excela-Flange™)	ME800-HRK	ME1075 and ME1005 Series Handle repair Kit
	ME1075-SARK	ME1075 Full Stem Repair Kit
	ME1075V-6FK	ME1075 3/4” Flange Kit
	ME1075V-8FK	ME1075 1”Flange Kit
	ME1005-SARK	ME1005 Full Stem Repair Kit
	ME1005V-6FK	ME1005 3/4” Flange Kit
	ME1005V-8FK	ME1005 1”Flange Kit
Hose Reel (Excela-Wynd™)	ME9000-BBK	Split Bronze Bearing Kit w/ Hardware
	ME9000-BER	Bearing Rod Kit
	ME9000-CAK	Carriage Assembly
	ME9000-CBK	Carriage Slider Bearing Kit
	ME9000-GGK	Gear Guard Repair Kit w/ Hardware
	ME9000-GMS	Gimbal Roller Set w/ Hardware
	ME9000-GRS	Guide Roller Assembly
	ME9000-GSK	Gear Segment Kit w/ Hardware
	ME9000-HGS	Hose Guard Set
	ME9000-ISK	Idler Sprocket Kit w/ Hardware

	Part No.	Description
Hose Reel (Excela-Wynd™)	ME9000-LCG	Gimbal Assembly
	ME9000-LCK	Level-Wynd Chain Kit
	ME9000-LOR	Offset Riser Kit w/ Hardware
	ME9000-LWC	Level Wind Cover w/ Hardware
	ME9000-LWG	Level Wind Gear Kit
	ME9000-MCK	Manual Crank
	ME9000-MGK	Motor Gear Kit
	ME9000-MHK	500 RPM MotorKit w/ Hardware
	ME9000-SBK	Split Bearing Repair Kit w/ Hardware
	ME9000-SEK	Sensor Repair Kit w/ Hardware
	ME9000WSDA	Weather Shield, Diamond Plate
	ME9000WSSA	Weather Shield, Smooth
	VSC9000-FFK	Firmware Flashing Kit
	VSC9000-VSC	Variable Speed Controller
Industrial Regulator MEGR-1133 Series	MEGR-1133H-01/05	2-5PSI Spring For MEGR-1133H Series
Industrial Regulator MEGR-164 Series	MEGR-164-01/125	Replacement 1-125PSI Spring for MEGR-164 Series
	MEGR-164-03	Replacement Diaphragm for MEGR-164 Series
Industrial Regulator MEGR-198H Series	MEGR-198H-03	Replacement Diaphragm for MEGR-198H Series
Industrial Regulator MEGR-199 Series	MEGR-199-01/10	Replacement Spring For MEGR-199 Series 2-10PSI - Blue
	MEGR-199-01/15	Replacement Spring For MEGR-199 Series 5-15PSI - Brown
	MEGR-199-01/20	Replacement Spring For MEGR-199 Series 10-20PSI - Green
	MEGR-199-01/5	Replacement Spring For MEGR-199 Series 1-5PSI - Yellow
	MEGR-199-01/65	Replacement Spring For MEGR-199 Series 10-65PSI - Green Stripe
	MEGR-199-02/1.125	Replacement Main Orifice For MEGR-199 Series 1-1/8"
	MEGR-199-03	Replacement Diaphragm For MEGR-199 Series
	MEGR-199-05	Replacement Body Housing Gasket For MEGR-199 Series
	MEGR-199-06	Replacement Main Seat Disc For MEGR-199 Series - Nitrile
Industrial Regulator MEGR-CS1200 Series	MEGR-CS1200-02/25	1/4” Orifice for MEGR-CS1200 Series
	MEGR-CS1200-02/312	5/16” Orifice for MEGR-CS1200 Series
	MEGR-CS1200-02/38	3/8” Orifice for MEGR-CS1200 Series
	MEGR-CS1200-02/50	1/2” Orifice for MEGR-CS1200 Series
	MEGR-CS1200-02/625	5/8” Orifice for MEGR-CS1200 Series
	MEGR-CS1200-01/6.5	3.5-6.5”WC Spring for MEGR-CS1200 Series (Red)
	MEGR-CS1200-01/14	6-14”WC Spring for MEGR-CS1200 Series (Green)
	MEGR-CS1200-01/33	12-33”WC Spring for MEGR-CS1200 Series (Orange)
	MEGR-CS1200-04	Replacement seat assembly for MEGR-CS1200 Series
Industrial Regulator MEGR-S1202 Series	MEGR-S1202-RK	MEGR-S1202 GH Series Complete Rebuild Kit
	MEGR-S1202-01/9	5-9”WC Spring for MEGR-S1202G Series (Black)
	MEGR-S1202-01/18	8.5-18”WC Spring for MEGR-S1202H Series (White)
	MEGR-S1202-01/30	14-30”WC Spring for MEGR-S1202H Series (Green)
	MEGR-S1202-01/2	1-2 PSI Spring for MEGR-S1202H Series (Blue)
	MEGR-S1202-01/3.25	1.5-3.25PSI Spring for MEGR-S1202H Series (Orange)
	MEGR-S1202-01/5	2-5PSI Spring for MEGR-S1202H-”XX”L only (Yellow)
	MEGR-S1202-02/50	1/2” Orifice for MEGR-S1202 Series
	MEGR-S1202-02/75	3/4” Orifice for MEGR-S1202 Series
	MEGR-S1202-02/250	1/4”” Orifice for MEGR-S1202 Series
	MEGR-S1202-02/375	3/8” Orifice for MEGR-S1202 Series
	MEGR-S1202-02/100	1” Orifice for MEGR-S1202 Series
	MEGR-S1202-02/1187	1-3/16” Orifice for MEGR-S1202 Series

	Part No.	Description
Industrial Regulator MEGR-1289 Series	MEGR-1289-8-01/4.5	1-4.5 PSI Spring For MEGR-1289 1" Series (Pink)
	MEGR-1289-8-01/15	4-15 PSI Spring For MEGR-1289 1" Series (Red)
	MEGR-1289-8-01/20	10-20 PSI Spring For MEGR-1289 1" Series (Silver)
	MEGR-1289-8-01/50	15-50 PSI Spring For MEGR-1289 1" Series (Green)
	MEGR-1289-16-01/18	7-18"WC Spring For MEGR-1289 2" Series (Blue)
	MEGR-1289-16-01/2.25	.5-2.25PSI Spring For MEGR-1289 2" Series (Grey)
	MEGR-1289-16-01/7	1.75-7 PSI Spring For MEGR-1289 2" Series (Green)
	MEGR-1289-16-01/10	4-10 PSI Spring For MEGR-1289 2" Series (Red)
	MEGR-1289-16-04	Replacement seal gasket for MEGR-1289 2" Series
	MEGR-1289-16-05	Replacement dust cap for MEGR-1289 2" Series
Industrial Regulator MEGR-1627 Series	MEGR-1627-01/20	5-20 PSI Spring For MEGR-1627 Series (Yellow)
	MEGR-1627-01/40	15-40 PSI Spring For MEGR-1627 Series (Green)
	MEGR-1627-01/95	10-95 PSI Spring For MEGR-1627Series (Blue)
	MEGR-1627-02/25	1/4" Aluminum Orifice For MEGR-1627 Series
	MEGR-1627-02/38	3/8" Aluminum Orifice For MEGR-1627 Series
	MEGR-1627-02/50	1/2" Alum Orifice For MEGR-1627 Series
	MEGR-1627-04	Vent Assembly For MEGR-1627 Series
	MEGR-1627-05	Adjusting Screw Cover - Plastic For MEGR-1627 Series
	MEGR-1627-03	Replacement Diaphragm For MEGR-1627 Series
	MEGR-1627-03R	Replacement Diaphragm For MEGR-1627R Series
Industrial Regulator MEGR-1630 Series	MEGR-1630-01/10	3-10 PSI Spring For MEGR-1630 Series (Red stripe)
	MEGR-1630-01/20	8-20 PSI Spring For MEGR-1630 Series (Olive drab)
	MEGR-1630-01/30	17-30 PSI Spring For MEGR-1630 Series (Silver)
	MEGR-1630-02/25	1/4" Orifice For MEGR-1630 Series
	MEGR-1630-02/38	3/8" Orifice For MEGR-1630 Series
	MEGR-1630-02/50	1/2" Orifice For MEGR-1630 Series
	MEGR-1630-04	Vent Assembly For MEGR-1630 Series
	MEGR-1630-03	Replacement Diaphragm For MEGR-1630 Series
Internal Valve Actuators	ME205-013	212° F. Thermal Safety Plug for ME205, ME205R, ME225, ME226, ME227, ME228, ME552, ME710
	ME206-09	212° F. Thermal Safety Plug for ME206, ME207, ME207SF, ME208SF
Internal Combination Valves 1-1/4" (Excelerator™)	ME1000F-101/40	Replacement 20 Mesh Screen
Internal Valves 1-1/4" Threaded (Excelerator™)	ME990-10-VRK	Excelerator 1-1/4" Internal Valve Rebuild Kit
	ME990-10-SRK	Excelerator 1-1/4" Internal Valve Seal Repair Kit
	ME990-10-PRK	Excelerator 1-1/4" - 1-1/2" Internal Valve Stem Packing Repair Kit
	ME990-10-PGA	Excelerator 1-1/4" - 1-1/2" Internal Valve Stem Packing Gland Assy.
	ME990-10-106-35	Excelerator 1-1/4" Internal Valve Excess Flow Spring - 35 GPM (Blue)
	ME990-10-106-55	Excelerator 1-1/4" Internal Valve Excess Flow Spring - 55 GPM (Green)
	ME990-10-106-85	Excelerator 1-1/4" Internal Valve Excess Flow Spring - 85 GPM (Orange)
	ME990-10-129	Excelerator 1-1/4" Internal Valve Manual Lever
	MEP147-01	1-1/4" Plated Steel Cable Connector Ring For 1-1/4"-3" Internal Valves
Internal Valves 1-1/2" Threaded Tee Body (Excelerator™)	ME990-12-VRK	1-1/2" Internal Valve Complete Repair Kit
	ME990-12-SRK	1-1/2" Internal Valve Seal Repair Kit
	ME990-10-PGA	1-1/4" - 1-1/2" Internal Valve Packing Gland Assembly
	ME990-10-PRK	1-1/4" - 1-1/2" Internal Valve Stem Packing Repair Kit
	MEP147-01	Cable Connector Ring for 1-1/4" - 3" ExceleratorTM Internal Valves
	ME990-10-129	Manual Operating Lever

	Part No.	Description
Internal Valves 1-1/2" Threaded Tee Body (Excelerator™)	ME990-160	Universal Internal Valve Fusible Link - 212° F.
	ME992-12-106-45	1-1/2" Internal Valve Excess Flow Spring - 45 GPM (Orange)
	ME992-12-106-60	1-1/2" Internal Valve Excess Flow Spring - 60 GPM (Red)
	ME992-12-106-85	1-1/2" Internal Valve Excess Flow Spring - 85 GPM (Yellow)
	ME992-12-106-110	1-1/2" Internal Valve Excess Flow Spring - 110 GPM (Purple)
	ME992-12-106-125	1-1/2" Internal Valve Excess Flow Spring - 125 GPM (Brown)
Internal Valves 2" & 3" Threaded & Threaded Tee Body (Excelerator™)	ME990-140	2"-3" Manual Operating Lever - Standard
	ME990-160	Universal Internal Valve Fusible Link 212 Degrees
	ME990-16-VRK	2" Internal Valve Rebuild Kit
	ME990-16-SRK	2" Internal Valve Seal Repair Kit
	ME990-24-VRK	3", 3"DF, 3"DFM Internal Valve Rebuild Kit
	ME990-24-SRK	3", 3"DF, 3"DFM Internal Valve Seal Repair Kit
	ME990-PRK	2" & 3" Internal Valve Stem Packing Repair Kit
	ME990-PGA	2" & 3" Internal Valve Stem Packing Gland Assy.
	ME990-16-106-110	2" Internal Valve Excess Flow Spring - 110GPM (Yellow)
	ME990-16-106-160	2" Internal Valve Excess Flow Spring - 160GPM (Green)
	ME990-16-106-260	2" Internal Valve Excess Flow Spring - 260GPM (Blue)
	ME990-106-175 3"	Internal Valve Excess Flow Spring - 175GPM (Purple)
	ME990-16-106-110	2" Internal Valve Excess Flow Spring - 110GPM (Yellow)
	ME990-16-106-160	2" Internal Valve Excess Flow Spring - 160GPM (Green)
	ME990-16-106-260	2" Internal Valve Excess Flow Spring - 260GPM (Blue)
	ME990-106-175	3" Internal Valve Excess Flow Spring - 175GPM (Purple)
	ME990-106-250	3" Internal Valve Excess Flow Spring - 250GPM (Black)
	ME990-106-300	3" Internal Valve Excess Flow Spring - 300GPM (Green)
	ME990-106-375	3" Internal Valve Excess Flow Spring - 375GPM (Yellow)
	ME990-106-400	3" Internal Valve Excess Flow Spring - 400GPM (Red)
	ME990-106-475	3" Internal Valve Excess Flow Spring - 475GPM (Silver)
	ME990-106-500	3" Internal Valve Excess Flow Spring - 500GPM (White)
	MEP147-01	Cable Connector Ring for 1-1/4"-3" Internal Valves
Internal Valves 3" Flanged & Double Flanged Off-Set (Excelerator™)	ME990-24-SRK	Internal Valve Seal Repair Kit (less ME990-3F Series)
	ME990-24-VRK	3", 3DF, 3DFM Internal Valve Complete Rebuild Kit (less ME990-3F Series)
	ME990-3DF-121	3" Double Flange Self-Guiding Poppet Retaining Nut
	ME990-3DF-122	3" Double Flange Retaining Nut Roll Pin
	ME990-3DF-138	3" Double Flange Screen Mounting Post
	ME990-3DF-144	3" Double Flange Filter Screen Perforated - Stainless Steel
	ME990-3DF-145	3" Double Flange Filter Cap Perforated - Stainless Steel
	ME990-3DF-146	3" Double Flange Screen Mounting Post - Locknut
	ME990-3DF-148	3" Double Flange Stem Guide Bracket
	ME990-3DF-153	3" Single & Double Flange Internal Valve Inlet Flange Gasket - Stainless Steel
	ME990-3F-VRK	3" Single Flange Internal Valve Complete Rebuild Kit
	ME990-3F-SRK	3" Single Flange Internal Valve Seal Repair Kit
	ME990-3F-PRK	3" Single Flange Internal Valve Stem Packing Repair Kit
	ME990-3F-PGA	3" Single Flange Internal Valve Stem Packing Gland Assembly.
	ME990-3F-109	3" Single Flange Internal Valve Outlet Flange Gasket - Stainless Steel
	ME990-3F-110	3" Single Flange Internal Valve Mounting Stud (5-3/4" OAL B7 Xylan Coated)
	ME990-3F-24-140	3" Modified Single & Double Flange Manual Operating Lever - Short
	ME990-3F-24-150	3" & 4" Internal Valve Mounting Sleeve / Bushing
	ME990-PRK	2" & 3" Internal Valve Stem Packing Repair Kit (less ME990-3F Series)
	ME990-PGA	2" & 3" Internal Valve Packing Gland Assy. (less ME990-3F Series)

	Part No.	Description
Internal Valves 3" Flanged & Double Flanged Off-Set (Excelerator™)	ME990-3F-109	3" Single Flange Internal Valve Outlet Flange Gasket - Stainless Steel
	ME990-3F-110	2" & 3" Internal Valve Stem Packing Repair Kit (less ME990-3F Series)
	ME990-106-175	3" Internal Valve Excess Flow Spring - 175GPM (Purple)
	ME990-106-250	3" Internal Valve Excess Flow Spring - 250GPM (Black)
	ME990-106-300	3" Internal Valve Excess Flow Spring - 300GPM (Green)
	ME990-106-375	3" Internal Valve Excess Flow Spring - 375GPM (Yellow)
	ME990-106-400	3" Internal Valve Excess Flow Spring - 400GPM (Red)
	ME990-106-475	3" Internal Valve Excess Flow Spring - 475GPM (Silver)
	ME990-106-500	3" Internal Valve Excess Flow Spring - 500GPM (White)
	ME990-140	3" Manual Operating Lever - Standard
	ME990-151	3" Internal Valve Tank Side Mounting Stud 3-1/2" OAL B7
	ME990-160	Universal Internal Valve Fusible Link - 212° F.
	ME930-244	3" Double Flange Stem Guide Bracket Screw #10-32
	ME904SK-01	3" Modified Single & Double Flange Internal Valve Tank Side Mount Stud 3" OAL - B7
	ME904SK-02	3" Internal Valve Mounting Stud Standard Hex Nut 3/4-10 B8
	ME904S-3F-027	Excelerator 3" Double Flange Outlet/3" Modified Inlet Flange Gasket
	ME990-3DFO-102	Offset Stand-Off 1/2-13UNC-2A x 5/16-24UNF-2A x 1.67"OAL - SS
	ME990-3DFO-103	Offset Gland Plug 1-3/8-12UNF-2A x 1-5/8"HX - SS
	MEP147-01	Cable Connector Ring for 1-1/4" - 3" Internal Valves
Internal Valves 4" Flanged (Excelerator™)	MEP990-4F	Manual Latch For 4" Internal Valves
	ME990-4F-VRK	4" Internal Valve Rebuild Kit
	ME990-4F-SRK	4" Internal Valve Seal Repair Kit
	ME990-4F-PRK	4" Internal Valve Stem Packing Repair Kit
	ME990-4F-PGA	4" Internal Valve Stem Packing Gland Assy.
	ME990-4F-146	4" Internal Valve Filter Screen Retain Bolt - 1/4-28
	ME990-4F-153	4" Internal Valve Inlet Flange Gasket
	ME990-4F-172	4" Internal Valve Outlet Flange Gasket
	ME990-4F-106-375	4" Internal Valve Excess Flow Spring - 375GPM (Cyan)
	ME990-4F-106-500	4" Internal Valve Excess Flow Spring - 500GPM (Black)
	ME990-4F-106-650	4" Internal Valve Excess Flow Spring - 650GPM (Green)
	ME990-4F-106-850	4" Internal Valve Excess Flow Spring - 850GPM (Yellow)
	ME990-4F-106-1250	4" Internal Valve Excess Flow Spring - 1250GPM (Red)
	ME990-4F-106-1500	4" Internal Valve Excess Flow Spring - 1500GPM (White)
	ME990-4F-144	4" Internal Valve Filter Screen Perforated - Stainless Steel
	ME990-4F-145	4" Internal Valve Filter Cap Perforated - Stainless Steel
	ME990-4F-162	4" Internal Valve Filter Screen/Cap #5 MESH
	ME990-4F-151	4" Internal Valve Mounting Stud 6-3/4"OAL B7 Xylan Coated
	ME990-152	3" Modified & 4" Internal Valve Mounting Stud Heavy Hex Nut 3/4-10 B8
	ME990-3F-24-150	3 & 4" Internal Valve Mounting Sleeve/Bushing
	ME990-4F-151	4" Internal Valve Mounting Stud 6-3/4"OAL B7 Xylan Coated
	ME990-152	3" Modified & 4" Internal Valve Mounting Stud Heavy Hex Nut 3/4-10 B8
	ME990-3F-24-150	3 & 4" Internal Valve Mounting Sleeve/Bushing
Internal Valves 4" & 6" Double Flanged (Excelerator™)	ME990-4DFM-VRK	4DFM Internal Valve Rebuild Kit
	ME990-4DFM-SRK	4DFM Internal Valve Seal Repair Kit
	ME990-4DFM-PRK	4DFM & 6DFM I nternal Valve Packing Repair Kit
	ME990-4DFM-PGA	4DFM & 6DFM Internal Valve Stem Packing Gland Assy.
	ME990-6DFM-VRK	6DFM Internal Valve Rebuild Kit
	ME990-6DFM-SRK	6DFM Internal Valve Seal Repair Kit

	Part No.	Description
Keys	ME530-03	ME530, ME531, ME532 and ME533 Series Key
	ME578-02	ME578 and ME600 Series Key
Liquid Withdrawal Adapters & Tank Valves	ME461	1-5/8" UNS Female Thread Replacement Cap and Gasket for ME460 & ME462
	ME461S	1-5/8" UNS Female Thread Replacement Cap and Gasket for ME462S
	ME461SS	1-5/8" UNS Female Thread Replacement Cap and Gasket for ME462SS
	ME458-03	ME458, ME460 and ME462 Series Nylon Gasket
	ME458-04	ME458 Series Nitrile O-ring
	MEP449S-101	ME449EXS/22 Replacement Protective Weather Boot
Manifold (Relief Valves)	ME904S-3F-027	Replacement Excelerator 3" Double Flange Outlet/3" Modified Inlet Flange Gasket
	ME904S-4F-027	Replacement 4" Modified Flange Flexatalic Gasket For ME904S-4F
	ME904SK	Quad-Port, 3/4-10UNC Mounting Stud Kit W/Nuts - 8Studs
	ME904SK-02	Replacement 3" Internal Valve Mounting Stud Standard Hex Nut 3/4-10 B8
	MEV125-109	Replacement Plastic Rain Cap for MEV125 Series Relief Valves - Black
Moto-Seal	ME795-3-02	Replacement Tip Seal
Multipurpose Withdrawal Valves	ME670-BRK	Replacement Bonnet Assembly for ME670, ME671, ME672 & ME673 Series Valves
	ME670-SRK	Replacement Seal Repair Kit for ME670, ME671, ME672 & ME673 Series Valves
	ME670-USRK	Replacement Upper Stem Seal Repair Kit for ME670, ME671, ME672 & ME673 Series
	ME670-HRK	Replacement Handle Repair Kit for ME670, ME671, ME672 & ME673 Series Valves
	ME671IBC-BRK	Replacement Bonnet Assembly for ME671IBC Series Valves
	ME671IBC-SRK	Replacement Seal Repair Kit for ME671IBC Series Valves
	ME670-107	Replacement Data Plate for ME670DEX
	ME670-108	Replacement Data Plate for ME670DBC
O-rings	568-110-01	POL O-ring
	ME220M-02	Motor Fuel Service Valve ME220M O-ring
POL Adapters	ME1002A	Male Hard Nose POL x 1/4" MNPT—Tailpiece Only
	ME1002B	7/8" POL Nut
	ME1002BLH	1-1/8" POL Nut
	ME1600AH	POL Hex Brass Handwheel
	ME1600AR	POL Round Brass Handwheel
	ME1630-02	Plastic Handwheel for 7/8" POL Nut
	ME1630-03	Plastic Handwheel Spring
Quick Acting Cylinder Hose End Valves	ME777-129	Replacement thread cap for ME777 Filler Valve
Railcar ESV (Excelerator™) High Flow	ME983-SRK	Seal Repair Kit - Nitrile
	ME983-VRK	Complete Valve Repair Kit - Nitrile
	ME983-119-150	Replacement Excess Flow Spring 150 GPM (Black)
	ME983-119-250	Replacement Excess Flow Spring 250 GPM (Black)
	ME983-119-500	Replacement Excess Flow Spring 500 GPM (Black)
	ME983-121	Replacement Quick Disconnect Nipple
Sight Flow Swing Check Valves	ME875S-16-05	ME875S-16 Glass
	ME875S-16-06	ME875S-16 Glass Gasket
	ME875S-16-07	ME875S-16 Nitrile O-ring Seal
	ME875S-16	Nitrile O-ring Seal
	ME875S-24-06	ME875S-24 Glass Gasket
	ME875S-24-07	ME875S-24 Nitrile O-ring Seal
Toggle Valves (Quick-Acting)	ME791K	Non-Locking Series Bonnet Repair Kit
	ME792K	Locking Series Bonnet Repair Kit

	Part No.	Description
Transfer Angle Valves	ME815K	ME449S and ME449EXS Series Bonnet Assembly
Transfer / Shutoff Valve (ME807, ME808) ***Turbo-Flo LE™***	ME807CRK	ME807/ME808 Coupling Repair Kit - Brass
	ME807SCRK	ME807/ME808 Coupling Repair Kit - Steel
	ME807HRK	ME807/808 Handle Repair Kit - Black
	ME807VRK	ME807-16 Valve Repair Kit
Transfer Valve (ME806) ***Turbo-Flo LE™***	ME185	3-1/4" ACME Dust Plug with Lanyard
	ME806CRK	ME806 Coupling Repair Kit
	ME806HRK	ME806 Handle Repair Kit
	ME806VRK	ME806 Valve Repair Kit
Versa-Fill™ Bypass Valves	ME840CK	1-1/4" - 2" Classic Poppet with Nitrile O-rings Complete Repair Kit
	ME840CVK	1-1/4" - 2" Classic Poppet with FKM O-rings Complete Repair Kit
	ME840K	1-1/4" - 2" Standard Poppet with Nitrile O-rings Complete Repair Kit
	ME840VK	1-1/4" - 2" Standard Poppet with FKM O-rings Complete Repair Kit
	ME840-16-108-40	Bypass Valve Spring 20-40 PSI (Blue)
	ME840-16-108-70	Bypass Valve Spring 40-70 PSI (Green)
	ME840-16-108-90	Bypass Valve Spring 70-90 PSI (Yellow)
	ME840-16-108-125	Bypass Valve Spring 90-125 PSI (Orange)
	ME840-16-108-150	Bypass Valve Spring 125-150 PSI (Red)
	ME845-HRK	Versa-Fill Bypass Handle Repair Kit
	ME845-PGA	Versa-Fill Bypass Packing Gland Assembly
	ME845-SRK	Versa-Fill Bypass Seal Repair Kit
	ME845-VRK	Versa-Fill Bypass Complete Valve Repair Kit
Wheel Chock Bracket	ME200B-103	Replacement Rubber Bumper Pad
	ME200EXT	Wheel Chock Block 6" Standoff Extension Kit
Y-Strainers	ME650-03/20	1/2" & 3/4" Y-Strainers 20 Mesh Screen
	ME650-03	1/2" & 3/4" Y-Strainers 40 Mesh Screen
	ME650-03/80	1/2" & 3/4" Y-Strainers 80 Mesh Screen
	ME652-03/20	1" Y-Strainer 20 Mesh Screen
	ME652-03	1" Y-Strainer 40 Mesh Screen
	ME652-03/80	1" Y-Strainer 80 Mesh Screen
	ME653-02/20	1-1/4" Y-Strainer 20 Mesh Screen
	ME653-02	1-1/4" Y-Strainer 40 Mesh Screen
	ME653-02/80	1-1/4" Y-Strainer 80 Mesh Screen
	ME654-03	1-1/2" Y-Strainer 40 Mesh Screen
	ME655-03/20	2" Y-Strainer 20 Mesh Screen
	ME655-03	2" Y-Strainer 40 Mesh Screen
	ME655-03/80	2" Y-Strainer 80 Mesh Screen
	ME656-03	3" Y-Strainer 40 Mesh Screen
	ME656-03/80	3" Y-Strainer 80 Mesh Screen
	ME656S-3F-109	Replacement 3" Filter Flange Gasket
	ME656S-3F-110	Replacement 3" Filter Flange O-Ring
	ME656S-3F-901	Replacement 3" Flange Y-Strainer Filter
	ME656S-4F-108	Replacement 4" Filter Flange Gasket
	ME656S-4F-110	Replacement 4" Filter Flange O-Ring
	ME656S-4F-901	Replacement 4" Flange Y-Strainer Filter
	ME980SK-16	2" -300LB Flange Stud & Nut Kit
	ME980SK-24	3" & 4"-300LB Flange Stud & Nut Kit
	ME980SK-16-103	2"-300 LB Flange Spiral Wound Gasket
	ME904S-3F-027	3"-300 LB Flange Spiral Wound Gasket
	ME904S-4F-027	4"-300 LB Flange Spiral Wound Gasket

PRODUCTS BY PART NUMBER

568-110-01.....100
ME4H.....40
ME10BTK-04.....99
ME50CO-2.....99
ME100.....92
ME101.....92
ME106 Series.....96
ME108 Series.....96
ME109 Series.....96
ME110 Series.....92
ME111 Series.....92
ME112 Series.....92
ME120 Series.....92
ME121S Series.....92
ME130 Series.....92
ME134WR/ME134SWR.....18
ME135.....18
ME140.....92
ME141 Series.....92
ME150 Series.....92
ME151 Series.....92
ME160 Series.....92
ME178 Series.....97
ME179 Series.....97
ME180 Series.....97
ME181 Series.....97
ME192.....94
ME193.....94
ME200 Series.....98
ME200EXT.....41
ME200PIB.....41
ME200PIBK.....41
ME202 Series.....100
ME204.....91, 100
ME205 Series.....76
ME205-013.....100
ME206.....76
ME206-09.....100
ME207.....76
ME207SF.....76
ME208SF.....76
ME209 Series.....94
ME210.....94
ME211.....94
ME212.....94
ME213 Series.....94
ME214 Series.....94
ME215 Series.....95
ME216 Series.....95
ME217 Series.....95
ME217PIB.....41
ME220M-02.....100
ME225.....75
ME226.....75
ME227.....75
ME228.....75
ME229F Series.....97
ME233 Series.....95
ME239.....97
ME250 Series.....94
ME251 Series.....94
ME252-16 Series.....94
ME262 Series.....95
ME270.....95
ME273 Series.....95
ME275 Series.....95
ME277 Series.....95
ME388.....125
ME390 Series.....125
ME392.....125
ME393 Series.....123
ME394.....123, 125
ME393-2.....125
ME394.....125
ME441 Series.....96-97
ME442 Series.....95
ME449 Series.....103-104
ME450.....104
ME453.....105
ME455.....105
ME458 Series.....103-105
ME460.....104
ME461.....103
ME462 Series.....103-104
ME498 Series.....94-95
ME502 Series.....94-95
ME503 Series.....94-95
ME503JT-16 Series.....93
ME503PIB.....41
ME504-24.....95
ME508-24 Series.....94
ME520S-8.....95
ME515.....123
ME516 Series.....123
ME521S-4.....95
ME524-24.....95
ME540.....39
ME551.....78
ME552.....78
ME568.....125
ME569.....123
ME570.....43
ME571 Series.....43
ME572 Series.....43
ME574 Series.....43
ME578 Series.....43
ME605-34.....96
ME611.....95
ME612 Series.....95
ME614 Series.....95
ME623.....95
ME625-34.....96
ME634-24.....92
ME635 Series.....92
ME645G Series.....92
ME646 Series.....92
ME650S-656S Series.....90
ME670 Series.....120
ME671 Series.....120
ME672D.....120
ME673 Series.....121
ME680-8.....91
ME691 Series.....52
ME693 Series.....52
ME707.....75
ME708.....75
ME709.....75, 91
ME710.....76
ME777 Series.....122
ME777-129.....122, 125
ME778 Series.....122
ME779 Series.....122
ME796.....123
ME800 Series.....38
ME806-16 Series.....17, 18
ME807-16 Series.....17, 18
ME807PIB.....18, 19, 41
ME808-16 Series.....19
ME808PIB.....77
ME810 Series.....42
ME810FSV Series.....86
ME813 Series.....23-24
ME815 Series.....22
ME815-16LHK.....27
ME815IBC-16.....25
ME815P-16.....25
ME818 Series.....23, 24, 26
ME819 Series.....23, 24, 26
ME820 Series.....42
ME820FSV Series.....86
ME821 Series.....42
ME822 Series.....23, 24, 26
ME823 Series.....23, 24, 26
ME824 Series.....22
ME824IBC-16.....25
ME825 Series.....22
ME825-3F.....28
ME825-4F.....28
ME825IBC-16.....25
ME825P-16 Series.....25
ME825P-16-4 Series.....27
ME829.....25, 27, 28
ME830 Series.....105
ME831 Series.....101
ME832.....101
ME833.....101
ME834.....101
ME840 Series.....31, 36-37
ME841 Series.....31, 36
ME842 Series.....45
ME843 Series.....45
ME845 Series.....34-35
ME846 Series.....34-35
ME850SS Series.....40
ME866-868 Series.....20
ME868BLK.....20
ME868MIB.....20
ME868PIB.....20, 40-41
ME869 Series.....53
ME870 Series.....50
ME870-10-1.....128
ME870SW-16.....52
ME872S Series.....50
ME873S Series.....49
ME874S-16.....88
ME875S Series.....89
ME880 Series.....46
ME882S Series.....46
ME883S Series.....45
ME890PIB.....41
ME902S Series.....114-115
ME903S Series.....114-115
ME904S Series.....114-115
ME930 Series.....106-109
ME931.....106-107
ME932.....106-107
ME940 Series.....106-109
ME960 Series.....31
ME980 Series.....83
ME980-905.....77
ME980-906-"X".....77
ME980SAR-4DFM.....84
ME980SAR-6DFM.....84
ME980SK-24.....28
ME981 Series.....87
ME982 Series.....87
ME983-16 Series.....85
ME990-10 Series.....55
ME990-10-902.....77
ME990-16 Series.....59
ME990-24 Series.....59
ME990-3F Series.....66
ME990-4F Series.....70
ME990S-2DFM Series.....60
ME990S-2F-16 Series.....60
ME990S-3DF 67
ME990S-3DFM Series.....67
ME990S-3DFO Series.....69
ME990S-3F-24 Series.....67
ME990SAR-4DFM Series.....71
ME990SAR-6DFM Series.....71
ME991-10 Series.....56
ME991-16 Series.....61
ME991-24 Series.....61
ME992-10 Series.....57
ME992-12 Series.....58
ME992-16 Series.....62
ME992-24 Series.....62
ME992S-2F Series.....63
ME992S-3F Series.....63
ME993S-16 Series.....64
ME993S-24 Series.....64
ME994S-2F Series.....65
ME994S-3F-24 Series.....68
ME1000 Series.....54
ME3194C.....53
ME3197C.....53
ME3400 Series.....51
ME3500 Series.....47
ME3600 Series.....48
MEGR-1HSRL Series.....11
MEGR-130 Series.....05
MEGR-130-50.....05, 75
MEGR-164 Series.....07

MEGR-198H Series.....09
MEGR-199 Series.....14
MEGR-350 Series.....05
MEGR-351.....05
MEGR-360 05
MEGR-1133 Series.....12
MEGR-1289H Series.....13
MEGR-1290H Series.....13
MEGR-1133 Series.....12
MEGR-1289H Series.....13
MEGR-1290H Series.....13
MEGR-1584 Series.....08
MEGR-1586 Series.....08
MEGR-1627 Series.....10
MEGR-1133 Series.....12
MEGR-1289H Series.....13
MEGR-1290H Series.....13
MEGR-1584 Series.....08
MEGR-1586 Series.....08
MEGR-1627 Series.....10
MEGR-1630.....10
MEGR-1912 Series.....04
MEGR-6120 Series.....06
MEGR-6121 Series.....06
MEGR-11301F.....09
MEGR-CS1200 Series.....11
MEGR-S1202 Series.....11
MEH25 Series.....104, 119
MEH50 Series.....119
MEH75 Series.....119
MEH225 Series.....25, 93, 104, 119
MEH501 Series.....119
MEH502.....118
MEH503.....118
MEJ2.5GB.....99
MEJ400 Series.....93, 102,104
MEJ401Series.....102
MEJ402S.....102, 104
MEJ402S-120.....102
MEJ410 Series.....102
MEJ415 Series.....105
MEJ500.....99
MEJ501.....99
MEJ502.....99,119
MEJ503.....99
MEJ504.....99
MEJ505.....99
MEJ510.....99
MEJ511.....99
MEJ512.....99
MEJ513.....99
MEJ516.....99
MEJ520.....99
MEJ524.....99
MEJ526.....99,105
MEJ542.....99,105
MEJ552.....99
MEJ580.....99
MEJ600-02.....99
MEJ602H.....102, 119
MEJ603HP-01.....99
MEJ603LP-01.....99
MEJ606.....102
MEJ700.....99
MEJ701.....99
MEJ702.....99
MEJ703.....99
MEP082.....98
MEP104-95.....101
MEP105.....20
MEP120 Series.....97
MEP121.....124
MEP122.....124
MEP123.....114, 116
MEP147.....96-97
MEP148.....96-97
MEP167.....96-97
MEP168.....96-97
MEP170.....116
MEP173.....119
MEP174.....119
MEP178 Series.....114, 116
MEP200FIR.....117
MEP250.....116
MEP300FIR.....117
MEP650.....77
MEP651.....77
MEP700.....124
MEP801 Series.....38, 39, 41
MEP802 Series.....39, 41
MEP803PCK Series.....41
MEP804 Series.....39, 41
MEP840 Series.....31
MEP840H.....32
MEP840HC Series.....32
MEP841 Series.....31
MEP841H.....32
MEP841H-24/16.....33
MEP841HC Series.....32
MEP873.....45
MEP873-102.....45
MEP889 Series.....59, 80
MEP930WG.....109
MEP980PN-100.....79
MEP990-24.....77
MEP990-2DFM & 3DFM.....81
MEP990-4DFM & 6DFM.....81
MEP990-4DFM/3DFM.....82
MEP990-4F.....77
MEP994-2F Series.....65
MEP994-3F.....68
MEP995S Series.....29
MEP996S Series.....29
MEP997S-24/16.....30
MEP998.....33
MEP999S Series.....29
MEP999SPE-16.....30
MEP-GMC1..... 101
MEP-RDC1.....101
MER401 Series.....126
MER403 Series.....126
MER404 Series.....126
MER405 Series.....126
MER406AR Series.....126
MER407 Series.....126
MER408 Series.....126
MER409 Series.....126
MER410 Series.....126
MER412 Series.....126
MER413 Series.....126
MER414 Series.....126
MER421 Series.....126
MER422 Series.....126
MER423 Series.....126
MER425 Series.....126
MER426 Series.....126
MER427 Series.....126
MER428 Series.....126
MER429 Series.....126
MER434 Series.....126
MES-PVE10ARF.....102
MES-PVE2098 Series.....121
MEV125 Series.....114-116
MEV200FIR Series.....117
MEV250 Series.....113, 116
MEV300FIR Series.....117
MEV300FIR-3F Series.....118
MEW1-MEW6.....100

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Warranty Information

WARNING

Marshall Excelsior's products are mechanical devices made of materials such as rubber and metal, and are subject to wear, the effects of contaminants, corrosion, and aging, and these devices will eventually become inoperative. Regular inspection and maintenance is essential. Marshall Excelsior's products have a long record of quality and service, and therefore LP-Gas dealers may forget hazards that can arise from using aging devices that have outlived their safe service life. The safe service life of these products will be affected by the environment and the conditions of their use. The LP-Gas dealer knows better than anyone what this environment and the conditions of use are.

There are developing trends in state legislation and proposed national legislation making the owner of products responsible for replacing products before they outlive their safe service life. LP-Gas dealers should be aware of such legislation as it affects them.

All Marshall Excelsior products must be installed, inspected and maintained by a trained and experienced professional adhering to all installation instructions, product and safety warnings, local, state, and federal regulations, codes and standards and any other standards set by, but not limited to, NFPA, DOT or ANSI.

LP-Gas is a highly explosive and flammable gas that should never be vented near a possible ignition source.

LIMITED WARRANTY

THIS WARRANTY for Marshall Excelsior manufactured products is provided by Marshall Excelsior, Inc., 1506 George Brown Drive, Marshall, MI 49068. Marshall Excelsior, unless otherwise specified in writing, warrants to the original buyer that for a period of five (5) years from the date of manufacture its products and repair kits will be free from defects in material and workmanship under normal service and use. This warranty covers manufacturing defects only, and does not cover defects and product non-compliance due to, misuse, alteration, neglect, accident, fire, or other external causes, alterations, or repairs. This limited warranty also does not cover normal wear and tear. During this warranty period, if a defect arises in the product, and you follow the instructions for returning the product, Marshall Excelsior will, at its option, to the extent permitted by law, either (i) repair the product using either new or refurbished parts, (ii) replace the product with a new or refurbished product that is equivalent to the product that is to be replaced, or (iii) refund to you all or part of the purchase price of the product. This limited warranty applies to the extent permitted by law, to any repair, replacement part or replacement device for the remainder of the original warranty period or for ninety (90) days whichever period is longer. All replaced parts and products for which a refund is given shall become the property of Marshall Excelsior. This is the only warranty or representation made by Marshall Excelsior, and the sole basis for liability respecting quality, performance, defects, repair, delivery, and replacement of products and repair kits. The foregoing shall constitute Marshall Excelsior's sole liability.

Marshall Excelsior does not warrant any product or part that has been altered, accidentally damaged, disassembled, modified, misused, neglected, not properly maintained or installed. Marshall Excelsior does not warrant cosmetic issues including but not limited to dents, scratches, product discoloration, color fading or any other imperfection that does not affect the functionality of the product. Marshall Excelsior does not warranty any product or part not installed according to Marshall Excelsior's installation instructions or installed in violation of any regulation or warning by state, local, or federal regulators, or in violation of any standard or code set by, but not limited to, NFPA, DOT or ANSI requirements. The foregoing shall constitute Marshall Excelsior's sole liability to distributors, vendees and end users.

K&A PRODUCTD LIMITED WARRANTY

Marshall Excelsior warrants K&A products and repair kits to the original buyer to be free of defects in material and workmanship under normal service and use for one year from manufactured date

LIMITATIONS

TO THE EXTENT PERMITTED BY LAW, THE WARRANTY AND REMEDIES SET FORTH ABOVE ARE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES AND REMEDIES, AND MARSHALL EXCELSIOR SPECIFICALLY DISCLAIMS ALL STATUTORY OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND AGAINST HIDDEN OR LATENT DEFECTS. IF MARSHALL EXCELSIOR CANNOT LAWFULLY DISCLAIM STATUTORY OR IMPLIED WARRANTIES, THEN TO THE EXTENT PERMITTED BY LAW, ALL SUCH WARRANTIES SHALL BE LIMITED IN DURATION TO THE DURATION OF THIS EXPRESS LIMITED WARRANTY AND TO REPAIR OR REPLACEMENT AND SERVICE.

MARSHALL EXCELSIOR IS NOT RESPONSIBLE FOR DIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM ANY BREACH OF WARRANTY OR UNDER ANY OTHER LEGAL THEORY.

MARSHALL EXCELSIOR'S LIABILITY (EXCEPT AS TO TITLE) ARISING OUT OF THE SALE, USE OR OPERATION OF PRODUCTS OR REPAIR KITS, WHETHER ON CLAIMS FOR BREACH OF WARRANTY, CONTRACT, NEGLIGENCE OR OTHERWISE (INCLUDING CLAIMS OF CONSEQUENTIAL OR INCIDENTAL DAMAGES) SHALL NOT IN ANY EVENT EXCEED THE COST OF FURNISHING OR REPLACEMENT OF THE DEFECTIVE PRODUCT OR REPAIR KIT.

WARRANTY CLAIMS AND NOTICE

Warranty claims shall be made in writing to Marshall Excelsior's Home Office at 1506 George Brown Drive, Marshall, Michigan 49068 by the distributor, vendee or end user within twenty (20) days of discovery of the defect and the product must be postmarked and shipped F.O.B. origin to Marshall Excelsior's Home Office within thirty (30) days of the discovery of the defect. Marshall Excelsior will not accept any products or repair kits that does not have a Return Material Authorization (RMA) number from the Home Office in Marshall, Michigan. After Marshall Excelsior has inspected the product and deemed the product to be defective, at its discretion, Marshall Excelsior will repair, replace or refund the purchase price of the defective product or repair kit. If the buyer does not comply with the above stated requirements the buyer will waive unconditionally and absolutely any and all claims arising out of the alleged defect.

COMPLIANCE

Marshall Excelsior manufactures all of our products to the highest industry standards. All of our products meet or exceed the requirements of the Compressed Gas Association (CGA), the National Fire Protection Association (NFPA), American National Standards Institute (ANSI), American Society of Mechanical Engineers (ASME) or Underwriters Laboratories, Inc. (UL) where indicated.

PRODUCT CHANGES

Marshall Excelsior reserves the right to change product specifications at any time. We are constantly evaluating our products and incorporating engineering advances to ensure our products perform and comply with changes in market conditions, government mandates, and code changes. Marshall Excelsior shall not be required to modify any equipment already sold or in service.

FILTERS

Marshall Excelsior develops products to be used in a debris, dirt and contamination free system. Installing an in-line filter may be necessary in a system that contains unclean product or when the system contains debris, dirt, scale, rust or other contaminates.

PRODUCT AGE

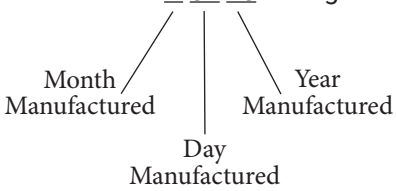
Marshall Excelsior products are mechanical devices that are subject to wear, contaminants, corrosion, and aging of components made of materials such as rubber and metal. Over time these devices will eventually become inoperative. The safe service life of these products will reflect the environment and conditions of use that they are subjected to. Regular inspection and maintenance is essential. Marshall Excelsior products have a long record of quality and service, so LP-Gas dealers may forget hazards that can arise from using aging devices that have outlived their safe service life. The length of a device's life is determined by the environment in which it is used, and the LP-Gas dealer knows better than anyone about this environment.

There are developing trends in state legislation and proposed national legislation making the owner of products responsible for replacing products before they outlive their safe service life. LP-Gas dealers should be aware of such legislation as it affects them.

To determine the product's age, check the product for a date code consisting of a series of letters and numbers.

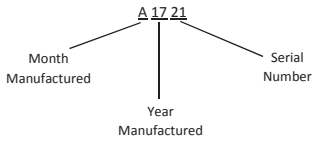
A = January	B = February	C = March
D = April	E = May	F = June
G = July	H = August	I = September
J = October	K = November	L = December

Example:
H 04 20 = August 4, 2020

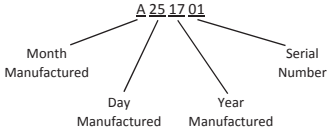


NOTE: Internal relief valves feature a different date code system.

FIR



SIR/ EXTERNAL RELIEF VALVES



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NOTES

BASE ENGINEERING

Marshall Excelsior Company is very proud to have BASE Engineering, a world leader in fuel transfer automation, as a part of the MEC Group of companies. Our combined expertise allows us to provide customers with exceptional application depth and collaborative solutions for today and tomorrow's oil & gas industry.

Headquartered in Saint John, New Brunswick Canada, BASE Engineering specializes in systems that provide safe, reliable wireless connection, control and reporting. Since 1996 over 100,000 BASE systems have been deployed around the globe to increase job safety and productivity.

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