

December 19, 2016

Attention: Catherine Diplock
PRESSURE VESSEL ENGINEERING INC
120 RANDALL DRIVE SUITE B
WATERLOO, ON N2V 1C6

Email: cmd@pveng.com

The design submission, tracking number 2016-05742, originally received on October 31, 2016 was surveyed and accepted for registration as follows:

CRN : 0C17311.2 **Accepted on:** December 19, 2016

Reg Type: New Design **Expiry Date:** December 19, 2026

Drawing No. : SCOPE SHEET 10185S Rev 1 As Noted

Fitting type: CAST GLOBE VALVES

Design registered in the name of : MARSHALL EXCELSIOR COMPANY

The registration is conditional on your compliance with the following notes:

All body materials are understood to be certified to ASTM A536 and additionally shall meet the chemistry requirements of ASTM A395.

Each valve shall be leak tested at 600 psi in accordance with ASME B16.34, §7.1.

As indicated on AB-41 Statutory Declaration form and submitted documentation, the code of construction is ASME B31.3.

This registration is valid only for fittings fabricated at the location(s) covered by the QC certificate attached to the accepted AB-41 Statutory Declaration form.

This registration is valid only until the indicated expiry date and only if the Manufacturer maintains a valid quality management system approved by an acceptable third-party agency until that date.

Should the approval of the quality management system lapse before the expiry date indicated above, this registration shall become void.

An invoice covering survey and registration fees will be forwarded from our Revenue Accounts.

If you have any question don't hesitate to contact me by phone at (780) 433-0281 ext 3386 or fax (780) 437-7787 or e-mail brandon@absa.ca.

Sincerely,



BRANDON, GREG

Burst testing was completed based on worst case body geometry. Meaning, largest port sizes with a combination of maximum ports were tested to encompass other similar models within a particular family that have identical bodies but smaller and fewer ports. The models/drawings included are as follows:

1. ME825-4F (4" Full Port Globe Valve) was tested and the following model is encompassed:
 - ME825-3F (3" Full Port Globe Valve)
2. ME825-24 (3" Globe Valve) was tested.
3. ME815-24 (3" Angle Valve) was tested.
4. ME824P-16-4 (2" Globe Valve, 1/2" ports with pilot) was tested and the following models are encompassed:
 - ME825-16
 - ME825P-16-4
 - ME824IBC-16
 - ME828-16
 - ME824-16
 - ME825P-16
 - ME828P-16
 - ME824P-16
 - ME825IBC-16
 - ME828IBC-16
5. ME822P-16-4 (2" Flanged Globe Valve) was tested and the following models are encompassed:
 - ME822IBC-16
 - ME822-16
6. ME813-10 (1-1/4" Flanged Angle Valve) was tested.
7. ME813-16 (2" Flanged Angle Valve) was tested and the following models are encompassed:
 - ME813IBC-16
 - ME813P-16
8. ME800 (Hose End Valve Assembly Series) – 3/4" was tested and this covers 1/2".
9. ME810-8 (LPG and NH3 Filler Valve Assembly) – 1" was tested and this covers 3/4" and 1/2".
10. ME820-8 (LPG and NH3 Shutoff Valve Assembly) – 1" was tested and this covers 3/4" and 1/2".
11. ME821-6 (Economy Quick Acting Valve) – 3/4" was tested and this covers 1/2".
12. ME815-12 (1-1/2" Angle Valve) was tested and the following models are encompassed:
 - ME815-10
 - ME826-10
 - ME827-10
13. ME815-16 (2" Angle Valve With Pilot) was tested and the following models are encompassed:
 - ME815IBC-16
 - ME815P-16
14. ME825-12 (1-1/2" High Flow Glove Valve) was tested and the following model is encompassed:
 - ME825-10
15. ME823-10 (1-1/4" Flanged Globe Valve) – was tested and the following model is encompassed:
 - ME819-10
16. ME818P-16-4 (IBC 2" Flanged X 2" NPT Globe Valve) was tested and the following models are encompassed:
 - ME818IBC-16
 - ME818-16

Design Data:

- **Design Code:** ASME B31.3 2014 Edition
- **Design Pressure:** 400 psi
- **Design Temperature:** 200 °F
- **M.D.M.T:** -20 °F @ 400 psi
- **Corrosion allowance:** 0 - for non-corrosive service
- **RT:** None
- **PWHT:** None
- **Impact test:** Exempted per 323.2.2