



345 Carlingview Drive
Toronto, Ontario M9W 6N9
Tel.: 416.734.3300
Fax: 416.231.1626
Toll Free: 1.877.682.8772

www.tssa.org

June 26, 2024

ROUND ENGINEERING INC
10 SEGWUN RD
WATERDOWN ON L8B 0K6

Workorder Type: Registration - Fitting(Conventional)
Workorder No: 14134918
Your Reference No.: R-1962
Registered to: ACME CRYOGENICS, INC.

Dear SCOTT ISLIP,

Technical Standards and Safety Authority (TSSA) is pleased to inform you that your submission has been reviewed and registered as follows:

CRN : 0C14626.5R2
Main Design No.: Scope of registration CRN-1060/1080 Rev K, Design report E11003 Rev 7
Expiry Date: Jun 26, 2034

Please be advised that a valid quality control system must be maintained for the fitting registration to remain valid until the expiry date.

Note: 10-year renewal to exist CRN 0C14626.5R1.

The stamped copy of the approved registration and the invoice are mailed separately (There will be no hard copies for electronic submissions). Should you have any questions or require further assistance, please contact a Customer Service Advisor at 1.877.682.TSSA (8772) or e-mail customerservices@tssa.org. We will be happy to assist you. When contacting TSSA regarding this file, please refer to the Service Request number provided above.

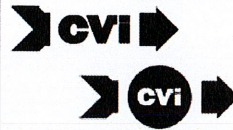
Yours truly,

Ruiming You P,ENG
Engineer, BPV
Tel. : +1 416-734-3428
Email : ryou@tssa.org



Technical Standards and Safety Authority
 345 Carlingview Drive
 Toronto, Ontario M9W 6N9
 www.tssa.org

Show facsimile of manufacturer's logo or trademark, as it will appear on the fitting, in the space below



STATUTORY DECLARATION Registration of Fittings

I, David M. Rakos, Director of Engineering
(Name and Position, e.g. President, Plant Manager, Chief Engineer)

of Acme Cryogenics, Inc.
(Name of Manufacturer)

Located at 2801 Mitchell Avenue, Allentown, PA 18103 (Plant Address) (610) 791-7909 (Telephone No.) (610) 791-2837 (Fax No.)

do solemnly declare that the fittings listed hereunder, which are subject to the **Technical Standards and Safety Act**, Boilers and Pressure Vessels Regulation, comply with all of the requirements of

(Title of recognized North American Standard)
 which specifies the dimensions, materials of construction, pressure/temperature ratings, identification marking the fittings and service;

or are not covered by the provisions of a recognized North American standard and are therefore manufactured to comply with ASME B31.3, B31.12 & B16.34 as supported by the attached data which identifies the dimensions, material of construction, pressure/temperature ratings and the basis for such ratings, the marking of the fitting for identification and service.

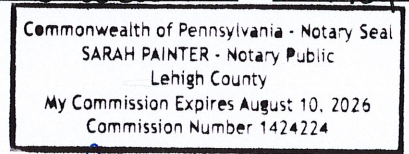
I further declare that the manufacture of these fittings is controlled by a quality system meeting the requirements of CSA B51 which has been verified by the following authority, TUV Rheinland.

The items covered by this declaration, for which I seek registration, are category C (All line valves) type fittings. In support of this application, the following information and/or test data are attached as follows:

Drawing CRN-1060/1080, Rev. 7 ^K Scope of CRN Registration; Calculation No. E11003, Rev. 7
(drawings, calculations, test reports, etc.)

Declared before me at 2801 Mitchell Avenue in the Commonwealth of Pennsylvania

the 4th day of August AD 2023.



Commissioner for Oaths:

Sarah Painter
(Printed name)

[Signature]
(Signature)

[Signature]
(Signature of Declarer)

FOR OFFICE USE ONLY

To the best of my knowledge and belief, the application meets the requirements of the **Technical Standards and Safety Act**, Boilers and Pressure Vessels Regulation, and CSA Standard B51 and is accepted for registration in Category _____.

CRN: _____

Registered by: _____

Dated: _____

NOTE: This registration expires on: **June 26, 2034**

Technical Standards and Safety Authority Boilers and Pressure Vessels Safety Program

REGISTERED

C.R.N.: 0C14626.5R2

Signed: [Signature]

Date: **June 26, 2024.**

Registration per ASME B31.3 and B16.34 standards.

**Information provided in this application is releasable under the Freedom of Information and Privacy Protection Act and may be disclosed upon request.*

PART NO.	PRODUCT DESCRIPTION	PRIMARY PRESSURE RETAINING COMPONENT	ASME / ANSI DESIGN STANDARD	SIZE OR SIZE RANGE	DESIGN PRESSURE @ MAX TEMPERATURE	MDMT	ACTUAL WALL THICKNESS VS MIN REQUIRED	END CONNECTION & SIZE RANGE	ASME / ASTM MATERIAL SPECIFICATION	REF CALCULATION	DRAWING NO.
CV0500HHYVPxxxx CV0500HHYO Pxxxx CV0500AxxVPxxxx CV0500AxxOPxxxx	MODEL CV (Acme) STRAIGHT-PATTERN GLOBE VALVE	BODY; STUBS; EXTENSION TUBE; FLANGE; BONNET; GASKET; BOLTS	ASME B31.3 ASME B31.12 ASME B16.34	NPS 1/2	600 PSIG @ 150 °F	-425 °F	Ext Tube: 0.035/0.028 Valve body: 0.15/0.15	NPS 1/2 BWE	SA-351 CF8M; SA-312 TP 316/316L; SA-213 TP 316/316L; SA-182 F316/316L; SA-479 316/316L; VITON; SA-320 B8, CL1	E11003 Rev 7	D-07833
CV1000HHYVPxxxx CV1000HHYO Pxxxx CV1000AxxVPxxxx CV1000AxxOPxxxx	MODEL CV (Acme) STRAIGHT-PATTERN GLOBE VALVE	BODY; STUBS; EXTENSION TUBE; FLANGE; BONNET; GASKET; BOLTS	ASME B31.3 ASME B31.12 ASME B16.34	NPS 1	600 PSIG @ 150 °F	-425 °F	Ext Tube: 0.049/0.033 Valve body: 0.19/0.165	NPS 1 BWE	SA-351 CF8M; SA-312 TP 316/316L; SA-213 TP 316/316L; SA-182 F316/316L; SA-479 316/316L; VITON; SA-320 B8, CL1	E11003 Rev 7	D-07708
CV1500HHYVPxxxx CV1500HHYO Pxxxx CV1500xxYVPxxxx CV1500xxYOPxxxx	MODEL CV (Acme) STRAIGHT-PATTERN GLOBE VALVE	BODY; STUBS; EXTENSION TUBE; FLANGE; BONNET; GASKET; BOLTS	ASME B31.3 ASME B31.12 ASME B16.34	NPS 1-1/2	600 PSIG @ 150 °F	-425 °F	Ext Tube: 0.049/0.042 Valve body: 0.23/0.205	NPS 1-1/2 BWE	SA-351 CF8M; SA-312 TP 316/316L; SA-213 TP 316/316L; SA-182 F316/316L; SA-479 316/316L; VITON; SA-320 B8, CL1	E11003 Rev 7	D-07584
CV2000HHYVPxxxx CV2000HHYO Pxxxx CV2000xxYVPxxxx CV2000xxYOPxxxx	MODEL CV (Acme) STRAIGHT-PATTERN GLOBE VALVE	BODY; STUBS; EXTENSION TUBE; FLANGE; BONNET; GASKET; BOLTS	ASME B31.3 ASME B31.12 ASME B16.34	NPS 2	600 PSIG @ 150 °F	-425 °F	Ext Tube: 0.049/0.042 Valve body: 0.25/0.24	NPS 2 BWE	SA-351 CF8M; SA-312 TP 316/316L; SA-213 TP 316/316L; SA-182 F316/316L; SA-479 316/316L; VITON; SA-320 B8, CL1	E11003 Rev 7	D-07688
CV3000HHYVPxxxx CV3000HHYO Pxxxx CV3000AxxVPxxxx CV3000AxxOPxxxx	MODEL CV (Acme) STRAIGHT-PATTERN GLOBE VALVE	BODY; STUBS; EXTENSION TUBE; FLANGE; BONNET; GASKET; BOLTS	ASME B31.3 ASME B31.12 ASME B16.34	NPS 3	600 PSIG @ 150 °F	-425 °F	Ext Tube: 0.188/0.074 Valve body: 0.313/0.281	NPS 3 BWE	SA-351 CF8M; SA-312 TP 316/316L; SA-213 TP 316/316L; SA-182 F316/316L; SA-479 316/316L; VITON; SA-320 B8, CL1	E11003 Rev 7	830-A08540 830-A08550
CV4000HHYVPxxxx CV4000HHYO Pxxxx CV4000AxxVPxxxx CV4000AxxOPxxxx	MODEL CV (Acme) STRAIGHT-PATTERN GLOBE VALVE	BODY; STUBS; EXTENSION TUBE; FLANGE; BONNET; GASKET; BOLTS	ASME B31.3 ASME B31.12 ASME B16.34	NPS 4	600 PSIG @ 150 °F	-425 °F	Ext Tube: 0.188/0.074 Valve body: 0.313/0.281	NPS 4 BWE	SA-351 CF8M; SA-312 TP 316/316L; SA-213 TP 316/316L; SA-182 F316/316L; SA-479 316/316L; VITON; SA-320 B8, CL1	E11003 Rev 7	830-A08560 830-A08570
CV0500HHYO SPxx CV0500AxxOSPxx	MODEL CV (Acme) STRAIGHT-PATTERN GLOBE VALVE	BODY; BONNET; EXTENSION TUBE; FLANGE; GASKET; BOLTS	ASME B31.3 ASME B31.12 ASME B16.34	NPS 1/2	600 PSIG @ 150 °F	-425 °F	Ext Tube: 0.035/0.028 Valve body: 0.15/0.15	NPS 1/2 SWE	SA-351 CF8M; SA-479 316/316L; SA-213 TP 316/316L; SA-182 F316/316L; VITON; SA-320 B8, CL1	E11003 Rev 7	D-07833
CV1000HHYO SPxx CV1000AxxOSPxx	MODEL CV (Acme) STRAIGHT-PATTERN GLOBE VALVE	BODY; BONNET; EXTENSION TUBE; FLANGE; GASKET; BOLTS	ASME B31.3 ASME B31.12 ASME B16.34	NPS 1	600 PSIG @ 150 °F	-425 °F	Ext Tube: 0.049/0.033 Valve body: 0.19/0.165	NPS 1 SWE	SA-351 CF8M; SA-479 316/316L; SA-213 TP 316/316L; SA-182 F316/316L; VITON; SA-320 B8, CL1	E11003 Rev 7	D-07708
CV1500HHYO SPxx CV1500AxxOSPxx	MODEL CV (Acme) STRAIGHT-PATTERN GLOBE VALVE	BODY; BONNET; EXTENSION TUBE; FLANGE; GASKET; BOLTS	ASME B31.3 ASME B31.12 ASME B16.34	NPS 1-1/2	600 PSIG @ 150 °F	-425 °F	Ext Tube: 0.049/0.042 Valve body: 0.23/0.205	NPS 1-1/2 SWE	SA-351 CF8M; SA-479 316/316L; SA-213 TP 316/316L; SA-182 F316/316L; VITON; SA-320 B8, CL1	E11003 Rev 7	D-07584
CV2000HHYO SPxx CV2000AxxOSPxx	MODEL CV (Acme) STRAIGHT-PATTERN GLOBE VALVE	BODY; BONNET; EXTENSION TUBE; FLANGE; GASKET; BOLTS	ASME B31.3 ASME B31.12 ASME B16.34	NPS 2	600 PSIG @ 150 °F	-425 °F	Ext Tube: 0.049/0.042 Valve body: 0.25/0.24	NPS 2 SWE	SA-351 CF8M; SA-479 316/316L; SA-213 TP 316/316L; SA-182 F316/316L; VITON; SA-320 B8, CL1	E11003 Rev 7	D-07688
CV0500AXXVP-CHK CV0500AXXOP-CHK	MODEL CV (Acme) STRAIGHT-PATTERN CHECK VALVE	BODY; STUBS; EXTENSION TUBE; FLANGE; BONNET; GASKET; BOLTS	ASME B31.3 ASME B31.12 ASME B16.34	NPS 1/2	600 PSIG @ 150 °F	-425 °F	Ext Tube: 0.035/0.028 Valve body: 0.15/0.15 Bonnet: 0.375/0.164	NPS 1/2 BWE	SA-351 CF8M; SA-312 TP 316/316L; SA-213 TP 316/316L; SA-182 F316/316L; SA-479 316/316L; VITON; SA-320 B8, CL1	E11003 Rev 7	D-07903
CV1000AXXVP-CHK CV1000AXXOP-CHK	MODEL CV (Acme) STRAIGHT-PATTERN CHECK VALVE	BODY; STUBS; EXTENSION TUBE; FLANGE; BONNET; GASKET; BOLTS	ASME B31.3 ASME B31.12 ASME B16.34	NPS 1	600 PSIG @ 150 °F	-425 °F	Ext Tube: 0.049/0.033 Valve body: 0.19/0.165 Bonnet: 0.315/0.201	NPS 1 BWE	SA-351 CF8M; SA-312 TP 316/316L; SA-213 TP 316/316L; SA-182 F316/316L; SA-479 316/316L; VITON; SA-320 B8, CL1	E11003 Rev 7	D-08020
CV1500AXXVP-CHK CV1500AXXOP-CHK	MODEL CV (Acme) STRAIGHT-PATTERN CHECK VALVE	BODY; STUBS; EXTENSION TUBE; FLANGE; BONNET; GASKET; BOLTS	ASME B31.3 ASME B31.12 ASME B16.34	NPS 1-1/2	600 PSIG @ 150 °F	-425 °F	Ext Tube: 0.049/0.042 Valve body: 0.23/0.205 Bonnet: 0.375/0.248	NPS 1-1/2 BWE	SA-351 CF8M; SA-312 TP 316/316L; SA-213 TP 316/316L; SA-182 F316/316L; SA-479 316/316L; VITON; SA-320 B8, CL1	E11003 Rev 7	D-06798
CV2000AXXVP-CHK CV2000AXXOP-CHK	MODEL CV (Acme) STRAIGHT-PATTERN CHECK VALVE	BODY; STUBS; EXTENSION TUBE; FLANGE; BONNET; GASKET; BOLTS	ASME B31.3 ASME B31.12 ASME B16.34	NPS 2	600 PSIG @ 150 °F	-425 °F	Ext Tube: 0.049/0.042 Valve body: 0.25/0.24 Bonnet: 0.625/0.28	NPS 2 BWE	SA-351 CF8M; SA-312 TP 316/316L; SA-213 TP 316/316L; SA-182 F316/316L; SA-479 316/316L; VITON; SA-320 B8, CL1	E11003 Rev 7	C-08280

GENERAL NOTES:

- CODES OF DESIGN & CONSTRUCTION
ASME B31.3, PROCESS PIPING CODE
ASME B31.12, HYDROGEN PIPING & PIPELINES CODE
ASME B16.34, VALVES -FLANGED, THREADED, AND WELDING END
CSA B51, BOILER, PRESSURE VESSEL, & PRESSURE PIPING CODE
- SAFE WORKING PRESSURE (NON SHOCK) 600 PSIG MAX. WITHIN THE TEMPERATURE RANGE OF -425°F TO +200°F (LIMITED TO 150°F BY THE SEAL MATERIALS)
- REFERENCE CALCULATION: E11003, REV. 7

J	REDRAWN IN SOLIDWORKS; MULTIPLE CHANGES - SEE ECN FOR DETAILS	8/4/2023	AJH	DRH	10495
K	MULTIPLE CHANGES; SEE ECN FOR DETAILS	5/30/2024	AJH	DRH	10559
REV	DESCRIPTION	DATE	REV BY	APPD BY	ECN NO.

UNLESS OTHERWISE SPECIFIED
INTERPRET PER ASME Y14.5-2009

1. THE FOLLOWING TOLERANCES APPLY:
XX: ±0.1" XX: ±0.05"
FRACTIONS: ± 1/32" ANGLES: ±0.5°

2. ALL DIMENSIONS ARE INCHES.

3. REMOVE ALL BURRS AND SHARP EDGES 0.15 MAX.

4. MACHINED SURFACE TO BE 125 MICR-INCHES OR BETTER.

5. DO NOT SCALE DRAWING.

THIRD ANGLE PROJECTION

DESIGN BY	DMR	DATE	05/23/2011
DRAWN BY	AJH	DATE	07/17/2023
CHECKED BY	BL	DATE	07/20/2023
APPROVED BY	DRH	DATE	08/04/2023

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THIS IS PART OF CRN 0C14626.5R2
 Technical Standards and Safety Authority
 Boilers and Pressure Vessels Safety Program

total 8 sheets
 registration per ASME B31.3 and B16.34 standards.

ORIGINAL


Title: SCOPE OF REGISTRATION - CRYOGENIC GLOBE VALVES

P/N: SEE TABLE

SCALE: N/A Project No.: E220040

DWG NO. CRN-1060/1080

SHEET: SHEET 1 OF 8 REV. K



4


3

2

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PART NO.	PRODUCT DESCRIPTION	PRIMARY PRESSURE RETAINING COMPONENT	ASME / ANSI DESIGN STANDARD	SIZE OR SIZE RANGE	DESIGN PRESSURE @ MAX TEMPERATURE	MDMT	ACTUAL WALL THICKNESS VS MIN REQUIRED	END CONNECTION & SIZE RANGE	ASME / ASTM MATERIAL SPECIFICATION	REF CALCULATION	DRAWING NO.
CV0500AXXSP-CHK	MODEL CV (Acme) STRAIGHT-PATTERN CHECK VALVE	BODY; BONNET; EXTENSION TUBE; FLANGE; GASKET; BOLTS	ASME B31.3 ASME B31.12 ASME B16.34	NPS 1/2	600 PSIG @ 150 °F	-425 °F	Ext Tube: 0.035/0.028 Valve body: 0.15/0.15 Bonnet: 0.375/0.164	NPS 1/2 SWE	SA-351 CF8M; SA-479 316/316L; SA-213 TP 316/316L; SA-182 F316/316L; VITON; SA-320 B8, CL1	E11003 Rev 7	CV0500AXXSP-CHK
CV1000AXXSP-CHK	MODEL CV (Acme) STRAIGHT-PATTERN CHECK VALVE	BODY; BONNET; EXTENSION TUBE; FLANGE; GASKET; BOLTS	ASME B31.3 ASME B31.12 ASME B16.34	NPS 1	600 PSIG @ 150 °F	-425 °F	Ext Tube: 0.049/0.033 Valve body: 0.19/0.165 Bonnet: 0.315/0.201	NPS 1 SWE	SA-351 CF8M; SA-479 316/316L; SA-213 TP 316/316L; SA-182 F316/316L; VITON; SA-320 B8, CL1	E11003 Rev 7	CV1000AXXSP-CHK
CV1500AXXSP-CHK	MODEL CV (Acme) STRAIGHT-PATTERN CHECK VALVE	BODY; BONNET; EXTENSION TUBE; FLANGE; GASKET; BOLTS	ASME B31.3 ASME B31.12 ASME B16.34	NPS 1-1/2	600 PSIG @ 150 °F	-425 °F	Ext Tube: 0.049/0.042 Valve body: 0.23/0.205 Bonnet: 0.375/0.248	NPS 1-1/2 SWE	SA-351 CF8M; SA-479 316/316L; SA-213 TP 316/316L; SA-182 F316/316L; VITON; SA-320 B8, CL1	E11003 Rev 7	CV1500AXXSP-CHK
CV2000AXXSP-CHK	MODEL CV (Acme) STRAIGHT-PATTERN CHECK VALVE	BODY; BONNET; EXTENSION TUBE; FLANGE; GASKET; BOLTS	ASME B31.3 ASME B31.12 ASME B16.34	NPS 2	600 PSIG @ 150 °F	-425 °F	Ext Tube: 0.049/0.042 Valve body: 0.25/0.24 Bonnet: 0.625/0.28	NPS 2 SWE	SA-351 CF8M; SA-479 316/316L; SA-213 TP 316/316L; SA-182 F316/316L; VITON; SA-320 B8, CL1	E11003 Rev 7	CV2000AXXSP-CHK
AV1000HHYVPxxxx AV1000HHYO Pxxxx AV1000AxxVPxxxx AV1000AxxOPxxxx	MODEL CV (Acme) ANGLE-PATTERN GLOBE VALVE	BODY; STUBS; EXTENSION TUBE; FLANGE; BONNET; GASKET; BOLTS	ASME B31.3 ASME B31.12 ASME B16.34	NPS 1	600 PSIG @ 150 °F	-425 °F	Ext Tube: 0.049/0.033 Valve body: 0.19/0.175	NPS 1 BWE	SA-351 CF8M; SA-312 TP 316/316L; SA-213 TP 316/316L; SA-182 F316/316L; SA-479 316/316L; VITON; SA-320 B8, CL1	E11003 Rev 7	AV1000HHYVPxxxx
AV1500HHYVPxxxx AV1500HHYO Pxxxx AV1500AxxVPxxxx AV1500AxxOPxxxx	MODEL CV (Acme) ANGLE-PATTERN GLOBE VALVE	BODY; STUBS; EXTENSION TUBE; FLANGE; BONNET; GASKET; BOLTS	ASME B31.3 ASME B31.12 ASME B16.34	NPS 1-1/2	600 PSIG @ 150 °F	-425 °F	Ext Tube: 0.049/0.042 Valve body: 0.23/0.21	NPS 1-1/2 BWE	SA-351 CF8M; SA-312 TP 316/316L; SA-213 TP 316/316L; SA-182 F316/316L; SA-479 316/316L; VITON; SA-320 B8, CL1	E11003 Rev 7	AV1500HHYVPxxxx
AV2000HHYVPxxxx AV2000HHYO Pxxxx AV2000AxxVPxxxx AV2000AxxOPxxxx	MODEL CV (Acme) ANGLE-PATTERN GLOBE VALVE	BODY; STUBS; EXTENSION TUBE; FLANGE; BONNET; GASKET; BOLTS	ASME B31.3 ASME B31.12 ASME B16.34	NPS 2	600 PSIG @ 150 °F	-425 °F	Ext Tube: 0.049/0.042 Valve body: 0.25/0.247	NPS 2 BWE	SA-351 CF8M; SA-312 TP 316/316L; SA-213 TP 316/316L; SA-182 F316/316L; SA-479 316/316L; VITON; SA-320 B8, CL1	E11003 Rev 7	AV2000HHYVPxxxx
AV1000HHYO SPxx AV1000AxxOSPxx	MODEL CV (Acme) ANGLE-PATTERN GLOBE VALVE	BODY; BONNET; EXTENSION TUBE; FLANGE; GASKET; BOLTS	ASME B31.3 ASME B31.12 ASME B16.34	NPS 1	600 PSIG @ 150 °F	-425 °F	Ext Tube: 0.049/0.033 Valve body: 0.19/0.175	NPS 1 SWE	SA-351 CF8M; SA-479 316/316L; SA-213 TP 316/316L; SA-182 F316/316L; VITON; SA-320 B8, CL1	E11003 Rev 7	AV1000HHYVPxxxx
AV1500HHYO SPxx AV1500AxxOSPxx	MODEL CV (Acme) ANGLE-PATTERN GLOBE VALVE	BODY; BONNET; EXTENSION TUBE; FLANGE; GASKET; BOLTS	ASME B31.3 ASME B31.12 ASME B16.34	NPS 1-1/2	600 PSIG @ 150 °F	-425 °F	Ext Tube: 0.049/0.042 Valve body: 0.23/0.21	NPS 1-1/2 SWE	SA-351 CF8M; SA-479 316/316L; SA-213 TP 316/316L; SA-182 F316/316L; VITON; SA-320 B8, CL1	E11003 Rev 7	AV1500HHYVPxxxx
AV2000HHYO SPxx AV2000AxxOSPxx	MODEL CV (Acme) ANGLE-PATTERN GLOBE VALVE	BODY; BONNET; EXTENSION TUBE; FLANGE; GASKET; BOLTS	ASME B31.3 ASME B31.12 ASME B16.34	NPS 2	600 PSIG @ 150 °F	-425 °F	Ext Tube: 0.049/0.042 Valve body: 0.25/0.247	NPS 2 SWE	SA-351 CF8M; SA-479 316/316L; SA-213 TP 316/316L; SA-182 F316/316L; VITON; SA-320 B8, CL1	E11003 Rev 7	AV2000HHYVPxxxx
YV1000HHYVPxxxx YV1000HHYO Pxxxx YV1000AxxVPxxxx YV1000AxxOPxxxx	MODEL CV (Acme) Y-PATTERN GLOBE VALVE	BODY; STUBS; EXTENSION TUBE; FLANGE; BONNET; GASKET; BOLTS	ASME B31.3 ASME B31.12 ASME B16.34	NPS 1	600 PSIG @ 150 °F	-425 °F	Ext Tube: 0.049/0.033 Valve body: 0.288/0.172	NPS 1 BWE	SA-351 CF8M; SA-312 TP 316/316L; SA-213 TP 316/316L; SA-182 F316/316L; SA-479 316/316L; VITON; SA-320 B8, CL1	E11003 Rev 7	YV1000HHYVPxxxx
YV1500HHYVPxxxx YV1500HHYO Pxxxx YV1500AxxVPxxxx YV1500AxxOPxxxx	MODEL CV (Acme) Y-PATTERN GLOBE VALVE	BODY; STUBS; EXTENSION TUBE; FLANGE; BONNET; GASKET; BOLTS	ASME B31.3 ASME B31.12 ASME B16.34	NPS 1-1/2	600 PSIG @ 150 °F	-425 °F	Ext Tube: 0.049/0.042 Valve body: 0.341/0.205	NPS 1-1/2 BWE	SA-351 CF8M; SA-312 TP 316/316L; SA-213 TP 316/316L; SA-182 F316/316L; SA-479 316/316L; VITON; SA-320 B8, CL1	E11003 Rev 7	YV1500HHYVPxxxx
YV2000HHYVPxx YV2000HHYO Pxxxx YV2000AxxVSPxx YV2000AxxOPxxxx	MODEL CV (Acme) Y-PATTERN GLOBE VALVE	BODY; STUBS; EXTENSION TUBE; FLANGE; BONNET; GASKET; BOLTS	ASME B31.3 ASME B31.12 ASME B16.34	NPS 2	600 PSIG @ 150 °F	-425 °F	Ext Tube: 0.049/0.042 Valve body: 0.341/0.240	NPS 2 BWE	SA-351 CF8M; SA-312 TP 316/316L; SA-213 TP 316/316L; SA-182 F316/316L; SA-479 316/316L; VITON; SA-320 B8, CL1	E11003 Rev 7	YV2000HHYVPxx
YV3000HHYVPxx YV3000HHYO Pxxxx YV3000AxxVSPxx YV3000AxxOPxxxx	MODEL CV (Acme) Y-PATTERN GLOBE VALVE	BODY; STUBS; EXTENSION TUBE; FLANGE; BONNET; GASKET; BOLTS	ASME B31.3 ASME B31.12 ASME B16.34	NPS 3	600 PSIG @ 150 °F	-425 °F	Ext Tube: 0.188/0.074 Valve body: 0.341/0.281	NPS 3 BWE	SA-351 CF8M; SA-312 TP 316/316L; SA-213 TP 316/316L; SA-182 F316/316L; SA-479 316/316L; VITON; SA-320 B8, CL1	E11003 Rev 7	YV3000HHYVPxxxx
YV4000HHYVPxxxx YV4000HHYO Pxxxx YV4000AxxVPxxxx YV4000AxxOPxxxx	MODEL CV (Acme) Y-PATTERN GLOBE VALVE	BODY; STUBS; EXTENSION TUBE; FLANGE; BONNET; GASKET; BOLTS	ASME B31.3 ASME B31.12 ASME B16.34	NPS 4	600 PSIG @ 150 °F	-425 °F	Ext Tube: 0.188/0.074 Valve body: 0.611/0.314	NPS 4 BWE	SA-351 CF8M; SA-312 TP 316/316L; SA-213 TP 316/316L; SA-182 F316/316L; SA-479 316/316L; VITON; SA-320 B8, CL1	E11003 Rev 7	YV4000HHYVPxxxx


ORIGINAL

<small>UNLESS OTHERWISE SPECIFIED</small> INTERPRET PER ASME Y14.5-2009 1. THE FOLLOWING TOLERANCES APPLY: DEC: ±0.1" XXX: ±0.05" FRACTIONS: ± 1/32" ANGLES: ±0.5° 2. ALL DIMENSIONS ARE INCHES. 3. REMOVE ALL BURRS AND SHARP EDGES .015 MAX. 4. MACHINED SURFACE TO BE 125 MICR-INCHES OR BETTER. 5. DO NOT SCALE DRAWING.	DESIGN BY	DMR	DATE	05/23/2011
	DRAWN BY	AJH	DATE	07/17/2023
	CHECKED BY	BL	DATE	07/20/2023
	APPROVED BY	DRH	DATE	08/04/2023
			<small>THIS DRAWING AND THE INFORMATION OR DATA CONTAINED HEREIN ARE CONSIDERED PROPRIETARY TO ACME CRYOGENICS, INC. AND IS NOT TO BE COPIED, REPRODUCED, DUPLICATED OR DISCLOSED TO OTHER IN WHOLE OR IN PART WITHOUT THE PRIOR WRITTEN CONSENT OF ACME CRYOGENICS, INC. THE DRAWING SHOULD BE RETURNED AS SOON AS IT HAS SERVED THE PURPOSES FOR WHICH IT IS FURNISHED AND WHILE IN THE POSSESSION OF THE RECIPIENT SHOULD BE PROPERLY SAFEGUARDED AGAINST DISCLOSURE TO ANYONE EXCEPT EMPLOYEES WHO REQUIRE IT FOR WORK OR A JOB. THIS RESTRICTION SHALL NOT APPLY TO INFORMATION OR DATA CONTAINED HEREIN WHICH IS AVAILABLE TO THE PUBLIC GENERALLY.</small>	

Title: SCOPE OF REGISTRATION - CRYOGENIC GLOBE VALVES

P/N: SEE TABLE

SCALE: N/A Project No.: E220040



ACME CRYOGENICS
PART OF OPW | a DOWDER company

DWG NO. CRN-1060/1080

SHEET: SHEET 2 OF 8 REV. K

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PART NO.	PRODUCT DESCRIPTION	PRIMARY PRESSURE RETAINING COMPONENT	ASME / ANSI DESIGN STANDARD	SIZE OR SIZE RANGE	DESIGN PRESSURE @ MAX TEMPERATURE			MDMT	ACTUAL WALL THICKNESS VS MIN REQUIRED	END CONNECTION & SIZE RANGE	ASME / ASTM MATERIAL SPECIFICATION	REF CALCULATION	DRAWING NO.
YV1000HHYOSPxx YV1000AxxOSPxx	MODEL CV (Acme) Y-PATTERN GLOBE VALVE	BODY; BONNET; EXTENSION TUBE; FLANGE; GASKET; BOLTS	ASME B31.3 ASME B31.12 ASME B16.34	NPS 1	600	PSIG @	150 °F	-425 °F	Ext Tube: 0.049/0.033 Valve body: 0.288/0.172	NPS 1 SWE	SA-351 CF8M; SA-479 316/316L; SA-213 TP 316/316L; SA-182 F316/316L; VITON; SA-320 B8, CL1	E11003 Rev 7	YV1000HHYOSPxx
YV1500HHYOSPxx YV1500AxxOSPxx	MODEL CV (Acme) Y-PATTERN GLOBE VALVE	BODY; BONNET; EXTENSION TUBE; FLANGE; GASKET; BOLTS	ASME B31.3 ASME B31.12 ASME B16.34	NPS 1-1/2	600	PSIG @	150 °F	-425 °F	Ext Tube: 0.049/0.042 Valve body: 0.341/0.205	NPS 1-1/2 SWE	SA-351 CF8M; SA-479 316/316L; SA-213 TP 316/316L; SA-182 F316/316L; VITON; SA-320 B8, CL1	E11003 Rev 7	YV1500HHYOSPxx
YV2000HHYOSPxx YV2000AxxOSPxx	MODEL CV (Acme) Y-PATTERN GLOBE VALVE	BODY; BONNET; EXTENSION TUBE; FLANGE; GASKET; BOLTS	ASME B31.3 ASME B31.12 ASME B16.34	NPS 2	600	PSIG @	150 °F	-425 °F	Ext Tube: 0.049/0.042 Valve body: 0.341/0.240	NPS 2 SWE	SA-351 CF8M; SA-479 316/316L; SA-213 TP 316/316L; SA-182 F316/316L; VITON; SA-320 B8, CL1	E11003 Rev 7	YV2000HHYOSPxx
YV3000HHYOSPxx YV3000AxxOSPxx	MODEL CV (Acme) Y-PATTERN GLOBE VALVE	BODY; BONNET; EXTENSION TUBE; FLANGE; GASKET; BOLTS	ASME B31.3 ASME B31.12 ASME B16.34	NPS 3	600	PSIG @	150 °F	-425 °F	Ext Tube: 0.188/0.074 Valve body: 0.341/0.281	NPS 3 SWE	SA-351 CF8M; SA-479 316/316L; SA-213 TP 316/316L; SA-182 F316/316L; VITON; SA-320 B8, CL1	E11003 Rev 7	YV3000HHYOSPxx
YV4000HHYOSPxx YV4000AxxOSPxx	MODEL CV (Acme) Y-PATTERN GLOBE VALVE	BODY; BONNET; EXTENSION TUBE; FLANGE; GASKET; BOLTS	ASME B31.3 ASME B31.12 ASME B16.34	NPS 4	600	PSIG @	150 °F	-425 °F	Ext Tube: 0.188/0.074 Valve body: 0.611/0.314	NPS 4 SWE	SA-351 CF8M; SA-479 316/316L; SA-213 TP 316/316L; SA-182 F316/316L; VITON; SA-320 B8, CL1	E11003 Rev 7	YV4000HHYOSPxx
CT1000HHYVPxxxx CT1000AxxVPxxxx	MODEL CT (Acme) STRAIGHT-PATTERN GLOBE VALVE	BODY; STUBS; EXTENSION TUBE; FLANGE; BONNET; GASKET; BOLTS	ASME B31.3 ASME B31.12 ASME B16.34	NPS 1	600	PSIG @	150 °F	-425 °F	Ext Tube: 0.049/0.033 Valve body: 0.19/0.165	NPS 1 BWE	SA-351 CF8M; SA-312 TP 316/316L; SA-213 TP 316/316L; SA-182 F316/316L; SA-479 316/316L; VITON; SA-320 B8, CL1	E11003 Rev 7	CT1000HHYVPxxxx
CT1500HHYVPxxxx CT1500AxxVPxxxx	MODEL CT (Acme) STRAIGHT-PATTERN GLOBE VALVE	BODY; STUBS; EXTENSION TUBE; FLANGE; BONNET; GASKET; BOLTS	ASME B31.3 ASME B31.12 ASME B16.34	NPS 1-1/2	600	PSIG @	150 °F	-425 °F	Ext Tube: 0.049/0.042 Valve body: 0.23/0.205	NPS 1-1/2 BWE	SA-351 CF8M; SA-312 TP 316/316L; SA-213 TP 316/316L; SA-182 F316/316L; SA-479 316/316L; VITON; SA-320 B8, CL1	E11003 Rev 7	CT1500HHYVPxxxx
CT2000HHYVPxxxx CT2000AxxVPxxxx	MODEL CT (Acme) STRAIGHT-PATTERN GLOBE VALVE	BODY; STUBS; EXTENSION TUBE; FLANGE; BONNET; GASKET; BOLTS	ASME B31.3 ASME B31.12 ASME B16.34	NPS 2	600	PSIG @	150 °F	-425 °F	Ext Tube: 0.049/0.042 Valve body: 0.25/0.24	NPS 2 BWE	SA-351 CF8M; SA-312 TP 316/316L; SA-213 TP 316/316L; SA-182 F316/316L; SA-479 316/316L; VITON; SA-320 B8, CL1	E11003 Rev 7	CT2000HHYVPxxxx
CT100AHHYCPxx CT100AxxYCS Pxx	MODEL CT (Acme) ANGLE-PATTERN GLOBE VALVE	BODY; BONNET; EXTENSION TUBE; FLANGE; GASKET; BOLTS	ASME B31.3 ASME B31.12 ASME B16.34	NPS 1	600	PSIG @	150 °F	-425 °F	Ext Tube: 0.049/0.033 Valve body: 0.19/0.175	NPS 1 SWE	SA-351 CF8M; SA-479 316/316L; SA-213 TP 316/316L; SA-182 F316/316L; VITON; SA-320 B8, CL1	E11003 Rev 7	CT1000HHYVPxxxx
CT150AHHYCPxx CT150AxxYCS Pxx	MODEL CT (Acme) ANGLE-PATTERN GLOBE VALVE	BODY; BONNET; EXTENSION TUBE; FLANGE; GASKET; BOLTS	ASME B31.3 ASME B31.12 ASME B16.34	NPS 1-1/2	600	PSIG @	150 °F	-425 °F	Ext Tube: 0.049/0.042 Valve body: 0.23/0.21	NPS 1-1/2 SWE	SA-351 CF8M; SA-479 316/316L; SA-213 TP 316/316L; SA-182 F316/316L; VITON; SA-320 B8, CL1	E11003 Rev 7	CT1500HHYVPxxxx
CT200AHHYCPxx CT200AxxYCS Pxx	MODEL CT (Acme) ANGLE-PATTERN GLOBE VALVE	BODY; BONNET; EXTENSION TUBE; FLANGE; GASKET; BOLTS	ASME B31.3 ASME B31.12 ASME B16.34	NPS 2	600	PSIG @	150 °F	-425 °F	Ext Tube: 0.049/0.042 Valve body: 0.25/0.247	NPS 2 SWE	SA-351 CF8M; SA-479 316/316L; SA-213 TP 316/316L; SA-182 F316/316L; VITON; SA-320 B8, CL1	E11003 Rev 7	CT2000HHYVPxxxx
CT100YHHYCPxx CT100YxxCSPxx	MODEL CT (Acme) Y-PATTERN GLOBE VALVE	BODY; BONNET; EXTENSION TUBE; FLANGE; GASKET; BOLTS	ASME B31.3 ASME B31.12 ASME B16.34	NPS 1	600	PSIG @	150 °F	-425 °F	Ext Tube: 0.049/0.033 Valve body: 0.288/0.172	NPS 1 SWE	SA-351 CF8M; SA-479 316/316L; SA-213 TP 316/316L; SA-182 F316/316L; VITON; SA-320 B8, CL1	E11003 Rev 7	CT100YHHYCPxx
CT150YHHYCPxx CT150YxxCSPxx	MODEL CV (Acme) Y-PATTERN GLOBE VALVE	BODY; BONNET; EXTENSION TUBE; FLANGE; GASKET; BOLTS	ASME B31.3 ASME B31.12 ASME B16.34	NPS 1-1/2	600	PSIG @	150 °F	-425 °F	Ext Tube: 0.049/0.042 Valve body: 0.341/0.205	NPS 1-1/2 SWE	SA-351 CF8M; SA-479 316/316L; SA-213 TP 316/316L; SA-182 F316/316L; VITON; SA-320 B8, CL1	E11003 Rev 7	CT150YHHYCPxx
CT200YHHYCPxx CT200YxxCSPxx	MODEL CV (Acme) Y-PATTERN GLOBE VALVE	BODY; BONNET; EXTENSION TUBE; FLANGE; GASKET; BOLTS	ASME B31.3 ASME B31.12 ASME B16.34	NPS 2	600	PSIG @	150 °F	-425 °F	Ext Tube: 0.049/0.042 Valve body: 0.341/0.240	NPS 2 SWE	SA-351 CF8M; SA-479 316/316L; SA-213 TP 316/316L; SA-182 F316/316L; VITON; SA-320 B8, CL1	E11003 Rev 7	CT200YHHYCPxx
CT05YTYHHYVPxxxx CT05YTYAxxVPxxxx	MODEL CT (Acme) Y-PATTERN LOW FLOW GLOBE VALVE	BODY; STUBS; EXTENSION TUBE; FLANGE; BONNET; GASKET; BOLTS	ASME B31.3 ASME B31.12 ASME B16.34	NPS 1/2	600	PSIG @	150 °F	-425 °F	Ext Tube: 0.049/0.033 Valve body: 0.188/0.14	NPS 1/2 BWE	SA-351 CF8M; SA-312 TP 316/316L; SA-213 TP 316/316L; SA-182 F316/316L; SA-479 316/316L; VITON; SA-320 B8, CL1	E11003 Rev 7	CT05YTYHHYVPxxxx
CT07YTYHHYVPxxxx CT07YTYAxxVPxxxx	MODEL CT (Acme) Y-PATTERN LOW FLOW GLOBE VALVE	BODY; STUBS; EXTENSION TUBE; FLANGE; BONNET; GASKET; BOLTS	ASME B31.3 ASME B31.12 ASME B16.34	NPS 3/4	600	PSIG @	150 °F	-425 °F	Ext Tube: 0.049/0.033 Valve body: 0.188/0.14	NPS 3/4 BWE	SA-351 CF8M; SA-312 TP 316/316L; SA-213 TP 316/316L; SA-182 F316/316L; SA-479 316/316L; VITON; SA-320 B8, CL1	E11003 Rev 7	CT07YTYHHYVPxxxx
CT10YTYHHYVPxxxx CT10YTYAxxVPxxxx	MODEL CT (Acme) Y-PATTERN LOW FLOW GLOBE VALVE	BODY; STUBS; EXTENSION TUBE; FLANGE; BONNET; GASKET; BOLTS	ASME B31.3 ASME B31.12 ASME B16.34	NPS 1	600	PSIG @	150 °F	-425 °F	Ext Tube: 0.049/0.033 Valve body: 0.188/0.14	NPS 1 BWE	SA-351 CF8M; SA-312 TP 316/316L; SA-213 TP 316/316L; SA-182 F316/316L; SA-479 316/316L; VITON; SA-320 B8, CL1	E11003 Rev 7	CT10YTYHHYVPxxxx


ORIGINAL

<small>UNLESS OTHERWISE SPECIFIED</small> INTERPRET PER ASME Y14.5-2009 1. THE FOLLOWING TOLERANCES APPLY: DEC: ±0.1° DEC: ±.005° FRACTIONS: ± 1/32" ANGLES: ±0.5° 2. ALL DIMENSIONS ARE INCHES. 3. REMOVE ALL BURRS AND SHARP EDGES .015 MAX. 4. MACHINED SURFACE TO BE 125 MICR-INCHES OR BETTER. 5. DO NOT SCALE DRAWING.	DESIGN BY	DMR	DATE	05/23/2011
	DRAWN BY	AJH	DATE	07/17/2023
	CHECKED BY	BL	DATE	07/20/2023
	APPROVED BY	DRH	DATE	08/04/2023
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Title:
SCOPE OF REGISTRATION -
CRYOGENIC GLOBE VALVES

P/N: SEE TABLE

SCALE: N/A Project No.: E220040



ACME
CRYOGENICS
PART OF OPW | a DOWDER company

DWG NO. CRN-1060/1080

SHEET: SHEET 3 OF 8 REV. K

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PART NO.	PRODUCT DESCRIPTION	PRIMARY PRESSURE RETAINING COMPONENT	ASME / ANSI DESIGN STANDARD	SIZE OR SIZE RANGE	DESIGN PRESSURE @ MAX TEMPERATURE			MDMT	ACTUAL WALL THICKNESS VS MIN REQUIRED	END CONNECTION & SIZE RANGE	ASME / ASTM MATERIAL SPECIFICATION	REF CALCULATION	DRAWING NO.
CT05YTHHYxSPxx CT05YTAxxxSPxx	MODEL CT (Acme) Y-PATTERN LOW FLOW GLOBE VALVE	BODY; BONNET; EXTENSION TUBE; FLANGE; GASKET; BOLTS	ASME B31.3 ASME B31.12 ASME B16.34	NPS 1/2	600	PSIG @	150 °F	-425 °F	Ext Tube: 0.049/0.033 Valve body: 0.188/0.14	NPS 1/2 SWE	SA-351 CF8M; SA-479 316/316L; SA-213 TP 316/316L; SA-182 F316/316L; VITON; SA-320 B8, CL1	E11003 Rev 7	CT05YTHHYCSPxx
CT07YTHHYxSPxx CT07YTAxxxSPxx	MODEL CT (Acme) Y-PATTERN LOW FLOW GLOBE VALVE	BODY; BONNET; EXTENSION TUBE; FLANGE; GASKET; BOLTS	ASME B31.3 ASME B31.12 ASME B16.34	NPS 3/4	600	PSIG @	150 °F	-425 °F	Ext Tube: 0.049/0.033 Valve body: 0.188/0.14	NPS 3/4 SWE	SA-351 CF8M; SA-479 316/316L; SA-213 TP 316/316L; SA-182 F316/316L; VITON; SA-320 B8, CL1	E11003 Rev 7	CT07YTHHYCSPxx
CT10YTHHYxSPxx CT10YTAxxxSPxx	MODEL CT (Acme) Y-PATTERN LOW FLOW GLOBE VALVE	BODY; BONNET; EXTENSION TUBE; FLANGE; GASKET; BOLTS	ASME B31.3 ASME B31.12 ASME B16.34	NPS 1	600	PSIG @	150 °F	-425 °F	Ext Tube: 0.049/0.033 Valve body: 0.188/0.14	NPS 1 SWE	SA-351 CF8M; SA-479 316/316L; SA-213 TP 316/316L; SA-182 F316/316L; VITON; SA-320 B8, CL1	E11003 Rev 7	CT10YTHHYCSPxx
81-2542-02594 81-2542-02601 81-2542-02605 88-2542-02874 88-2542-02881 88-2542-02885 78-2542-03645 78-2542-03650 78-2542-03655 78-2542-03371 78-2542-03372 78-2542-03373 78-2542-03505 78-2542-03510 78-2542-03515 78-2542-03174 78-2542-03181 78-2542-03185	V-SERIES (CVI) STRAIGHT-PATTERN GLOBE VALVE	BODY; STUBS; EXTENSION TUBE; FLANGE; BONNET; GASKET; BOLTS	ASME B31.3 ASME B31.12 ASME B16.34	NPS 1/2	600	PSIG @	150 °F	-425 °F	Ext Tube: 0.083/0.033 Valve body: 0.19/0.155	NPS 1/2 BWE	SA-351 CF3; SA-312 TP 304/304L; SA-213 TP 304/304L; SA-182 F304/304L; SA-479 304/304L; SB-283 C642 10; VITON; SA-320 B8, CL1	E11003 Rev 7	81-2542-02571
81-2542-02613 81-2542-02617 81-2542-02621 88-2542-02893 88-2542-02897 88-2542-02901 78-2542-03665 78-2542-03670 78-2542-03675 78-2542-03375 78-2542-03376 78-2542-03377 78-2542-03525 78-2542-03530 78-2542-03535 78-2542-03193 78-2542-03197 78-2542-03201	V-SERIES (CVI) STRAIGHT-PATTERN GLOBE VALVE	BODY; STUBS; EXTENSION TUBE; FLANGE; BONNET; GASKET; BOLTS	ASME B31.3 ASME B31.12 ASME B16.34	NPS 3/4	600	PSIG @	150 °F	-425 °F	Ext Tube: 0.083/0.033 Valve body: 0.19/0.156	NPS 3/4 BWE	SA-351 CF3; SA-312 TP 304/304L; SA-213 TP 304/304L; SA-182 F304/304L; SA-479 304/304L; SB-283 C642 10; VITON; SA-320 B8, CL1	E11003 Rev 7	81-2542-02571


ORIGINAL

<small>UNLESS OTHERWISE SPECIFIED</small> INTERPRET PER ASME Y14.5-2009 1. THE FOLLOWING TOLERANCES APPLY: .XX: ±0.1" .XXX: ±.005" FRACTIONS: ± 1/32" ANGLES: ±0.5° 2. ALL DIMENSIONS ARE INCHES. 3. REMOVE ALL BURRS AND SHARP EDGES .015 MAX. 4. MACHINED SURFACE TO BE 125 MICR-INCHES OR BETTER. 5. DO NOT SCALE DRAWING.	DESIGN BY	DMR	DATE	05/23/2011
	DRAWN BY	AJH	DATE	07/17/2023
	CHECKED BY	BL	DATE	07/20/2023
	APPROVED BY	DRH	DATE	08/04/2023
				

Title:
SCOPE OF REGISTRATION -
CRYOGENIC GLOBE VALVES

P/N: SEE TABLE

SCALE: N/A Project No.: E220040

ACME 
 CRYOGENICS
 PART OF OPW | a DOWDER company

DWG NO. CRN-1060/1080

SHEET: SHEET 4 OF 8 REV. K

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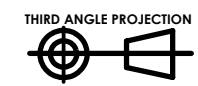
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PART NO.	PRODUCT DESCRIPTION	PRIMARY PRESSURE RETAINING COMPONENT	ASME / ANSI DESIGN STANDARD	SIZE OR SIZE RANGE	DESIGN PRESSURE @ MAX TEMPERATURE			MDMT	ACTUAL WALL THICKNESS VS MIN REQUIRED	END CONNECTION & SIZE RANGE	ASME / ASTM MATERIAL SPECIFICATION	REF CALCULATION	DRAWING NO.
81-2542-02634 81-2542-02640 81-2542-02644 88-2542-02914 88-2542-02920 88-2542-02924 78-2542-03685 78-2542-03690 78-2542-03695 78-2542-03379 78-2542-03380 78-2542-03381 78-2542-03545 78-2542-03550 78-2542-03555 78-2542-03214 78-2542-03220 78-2542-03224	V-SERIES (CVI) STRAIGHT-PATTERN GLOBE VALVE	BODY; STUBS; EXTENSION TUBE; FLANGE; BONNET; GASKET; BOLTS	ASME B31.3 ASME B31.12 ASME B16.34	NPS 1	600	PSIG @	150 °F	-425 °F	Ext Tube: 0.083/0.033 Valve body: 0.20/0.174	NPS 1 BWE	SA-351 CF3; SA-312 TP 304/304L; SA-213 TP 304/304L; SA-182 F304/304L; SA-479 304/304L; SB-283 C642 10; VITON; SA-320 B8, CL1	E11003 Rev 7	81-2542-02571
81-2542-02671 81-2542-02679 81-2542-02683 88-2542-02951 88-2542-02955 88-2542-02958 78-2542-03705 78-2542-03710 78-2542-03715 78-2542-03383 78-2542-03384 78-2542-03385 78-2542-03565 78-2542-03570 78-2542-03575 78-2542-03250 78-2542-03258 78-2542-03262	V-SERIES (CVI) STRAIGHT-PATTERN GLOBE VALVE	BODY; STUBS; EXTENSION TUBE; FLANGE; BONNET; GASKET; BOLTS	ASME B31.3 ASME B31.12 ASME B16.34	NPS 1-1/2	600	PSIG @	150 °F	-425 °F	Ext Tube: 0.083/0.042 Valve body: 0.22/0.212	NPS 1-1/2 BWE	SA-351 CF3; SA-312 TP 304/304L; SA-213 TP 304/304L; SA-182 F304/304L; SA-479 304/304L; SB-283 C642 10; VITON; SA-320 B8, CL1	E11003 Rev 7	81-2542-02571

ORIGINAL

UNLESS OTHERWISE SPECIFIED
INTERPRET PER ASME Y14.5-2009
 1. THE FOLLOWING TOLERANCES APPLY:
 .XX: ±0.1" .XXX: ±.005"
 FRACTIONS: ± 1/32" ANGLES: ±0.5°
 2. ALL DIMENSIONS ARE INCHES.
 3. REMOVE ALL BURRS AND SHARP EDGES .015 MAX.
 4. MACHINED SURFACE TO BE 125 MICR-INCHES OR BETTER.
 5. DO NOT SCALE DRAWING.



DESIGN BY	DMR	DATE	05/23/2011
DRAWN BY	AJH	DATE	07/17/2023
CHECKED BY	BL	DATE	07/20/2023
APPROVED BY	DRH	DATE	08/04/2023

Title:
SCOPE OF REGISTRATION -
CRYOGENIC GLOBE VALVES

P/N: SEE TABLE

SCALE: N/A Project No.: E220040



DWG NO. CRN-1060/1080

SHEET: SHEET 5 OF 8

REV. K

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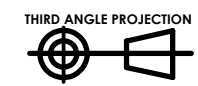
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PART NO.	PRODUCT DESCRIPTION	PRIMARY PRESSURE RETAINING COMPONENT	ASME / ANSI DESIGN STANDARD	SIZE OR SIZE RANGE	DESIGN PRESSURE @ MAX TEMPERATURE			MDMT	ACTUAL WALL THICKNESS VS MIN REQUIRED	END CONNECTION & SIZE RANGE	ASME / ASTM MATERIAL SPECIFICATION	REF CALCULATION	DRAWING NO.
81-2542-02701 81-2542-02710 81-2542-02714 88-2542-02964 88-2542-02967 88-2542-02970 78-2542-03725 78-2542-03730 78-2542-03735 78-2542-03387 78-2542-03388 78-2542-03389 78-2542-03585 78-2542-03590 78-2542-03595 78-2542-03288 78-2542-03292 81-2542-02729	V-SERIES (CVI) STRAIGHT-PATTERN GLOBE VALVE	BODY; STUBS; EXTENSION TUBE; FLANGE; BONNET; GASKET; BOLTS	ASME B31.3 ASME B31.12 ASME B16.34	NPS 2	600	PSIG @	150 °F	-425 °F	Ext Tube: 0.083/0.051 Valve body: 0.25/0.247	NPS 2 BWE	SA-351 CF3; SA-312 TP 304/304L; SA-213 TP 304/304L; SA-182 F304/304L; SA-479 304/304L; SB-283 C642 10; VITON; SA-320 B8, CL1	E11003 Rev 7	81-2542-02571
81-2542-02729 81-2542-02730 81-2542-02731 81-2542-02732 88-2542-02973 88-2542-02976 88-2542-02979 88-2542-02982 78-2542-03740 78-2542-03745 78-2542-03750 78-2542-03755 78-2542-03390 78-2542-03391 78-2542-03392 78-2542-03393 78-2542-03600 78-2542-03605 78-2542-03610 78-2542-03615	V-SERIES (CVI) STRAIGHT-PATTERN GLOBE VALVE	BODY; STUBS; EXTENSION TUBE; FLANGE; BONNET; GASKET; BOLTS	ASME B31.3 ASME B31.12 ASME B16.34	NPS 3	600	PSIG @	150 °F	-425 °F	Ext Tube: 0.188/0.074 Valve body: 0.313/0.281	NPS 3 BWE	SA-351 CF3; SA-312 TP 304/304L; SA-213 TP 304/304L; SA-182 F304/304L; SA-479 304/304L; SB-283 C642 10; VITON; SA-320 B8, CL1	E11003 Rev 7	81-2542-02571

ORIGINAL

UNLESS OTHERWISE SPECIFIED
INTERPRET PER ASME Y14.5-2009
 1. THE FOLLOWING TOLERANCES APPLY:
 .XX: ±0.1" .XXX: ±.005"
 FRACTIONS: ± 1/32" ANGLES: ±0.5°
 2. ALL DIMENSIONS ARE INCHES.
 3. REMOVE ALL BURRS AND SHARP EDGES .015 MAX.
 4. MACHINED SURFACE TO BE 125 MICR-INCHES OR BETTER.
 5. DO NOT SCALE DRAWING.



DESIGN BY	DMR	DATE	05/23/2011
DRAWN BY	AJH	DATE	07/17/2023
CHECKED BY	BL	DATE	07/20/2023
APPROVED BY	DRH	DATE	08/04/2023

Title:
SCOPE OF REGISTRATION -
CRYOGENIC GLOBE VALVES



P/N: SEE TABLE

DWG NO. CRN-1060/1080

SCALE: N/A Project No.: E220040

SHEET: SHEET 6 OF 8

REV. K

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PART NO.	PRODUCT DESCRIPTION	PRIMARY PRESSURE RETAINING COMPONENT	ASME / ANSI DESIGN STANDARD	SIZE OR SIZE RANGE	DESIGN PRESSURE @ MAX TEMPERATURE		MDMT	ACTUAL WALL THICKNESS VS MIN REQUIRED	END CONNECTION & SIZE RANGE	ASME / ASTM MATERIAL SPECIFICATION	REF CALCULATION	DRAWING NO.
81-2542-02751 81-2542-02752 81-2542-02753 81-2542-02754 88-2542-02985 88-2542-02988 88-2542-02991 88-2542-02994 78-2542-03760 78-2542-03765 78-2542-03770 78-2542-03775 78-2542-03394 78-2542-03395 78-2542-03396 78-2542-03397 78-2542-03620 78-2542-03625 78-2542-03630 78-2542-03635	V-SERIES (CVI) STRAIGHT-PATTERN GLOBE VALVE	BODY; STUBS; EXTENSION TUBE; FLANGE; BONNET; GASKET; BOLTS	ASME B31.3 ASME B31.12 ASME B16.34	NPS 4	600 PSIG @	150 °F	-425 °F	Ext Tube: 0.188/0.088 Valve body: 0.375/0.314	NPS 4 BWE	SA-351 CF3; SA-312 TP 304/304L; SA-213 TP 304/304L; SA-182 F304/304L; SA-479 304/304L; SB-283 C64210; VITON; SA-320 B8, CL1	E11003 Rev 7	81-2542-02571
81-2542-02571 88-2542-02851 78-2542-03640 78-2542-03370 78-2542-03501 78-2542-03151	V-SERIES (CVI) STRAIGHT-PATTERN GLOBE VALVE	BODY; BONNET; EXTENSION TUBE; FLANGE; GASKET; BOLTS	ASME B31.3 ASME B31.12 ASME B16.34	NPS 1/2	600 PSIG @	150 °F	-425 °F	Ext Tube: 0.083/0.033 Valve body: 0.19/0.155	NPS 1/2 SWE	SA-351 CF8M; SA-479 316/316L; SA-213 TP 316/316L; SA-182 F316/316L; VITON; SA-320 B8, CL1	E11003 Rev 7	81-2542-02571
81-2542-02609 88-2542-02889 78-2542-03660 78-2542-03374 78-2542-03520 78-2542-03189	V-SERIES (CVI) STRAIGHT-PATTERN GLOBE VALVE	BODY; BONNET; EXTENSION TUBE; FLANGE; GASKET; BOLTS	ASME B31.3 ASME B31.12 ASME B16.34	NPS 3/4	600 PSIG @	150 °F	-425 °F	Ext Tube: 0.083/0.033 Valve body: 0.19/0.156	NPS 3/4 SWE	SA-351 CF8M; SA-479 316/316L; SA-213 TP 316/316L; SA-182 F316/316L; VITON; SA-320 B8, CL1	E11003 Rev 7	81-2542-02571
81-2542-02625 88-2542-02905 78-2542-03680 78-2542-03378 78-2542-03540 78-2542-03205	V-SERIES (CVI) STRAIGHT-PATTERN GLOBE VALVE	BODY; BONNET; EXTENSION TUBE; FLANGE; GASKET; BOLTS	ASME B31.3 ASME B31.12 ASME B16.34	NPS 1	600 PSIG @	150 °F	-425 °F	Ext Tube: 0.083/0.033 Valve body: 0.20/0.174	NPS 1 SWE	SA-351 CF8M; SA-479 316/316L; SA-213 TP 316/316L; SA-182 F316/316L; VITON; SA-320 B8, CL1	E11003 Rev 7	81-2542-02571
81-2542-02648 88-2542-02928 78-2542-03700 78-2542-03382 78-2542-03560 78-2542-03228	V-SERIES (CVI) STRAIGHT-PATTERN GLOBE VALVE	BODY; BONNET; EXTENSION TUBE; FLANGE; GASKET; BOLTS	ASME B31.3 ASME B31.12 ASME B16.34	NPS 1-1/2	600 PSIG @	150 °F	-425 °F	Ext Tube: 0.083/0.042 Valve body: 0.22/0.212	NPS 1-1/2 SWE	SA-351 CF8M; SA-479 316/316L; SA-213 TP 316/316L; SA-182 F316/316L; VITON; SA-320 B8, CL1	E11003 Rev 7	81-2542-02571
81-2542-02687 88-2542-02961 78-2542-03720 78-2542-03386 78-2542-03580 78-2542-03266	V-SERIES (CVI) STRAIGHT-PATTERN GLOBE VALVE	BODY; BONNET; EXTENSION TUBE; FLANGE; GASKET; BOLTS	ASME B31.3 ASME B31.12 ASME B16.34	NPS 2	600 PSIG @	150 °F	-425 °F	Ext Tube: 0.083/0.051 Valve body: 0.25/0.247	NPS 2 SWE	SA-351 CF8M; SA-479 316/316L; SA-213 TP 316/316L; SA-182 F316/316L; VITON; SA-320 B8, CL1	E11003 Rev 7	81-2542-02571

ORIGINAL

UNLESS OTHERWISE SPECIFIED:
INTERPRET PER ASME Y14.5-2009
 1. THE FOLLOWING TOLERANCES APPLY:
 DEC: ±0.1" XXX: ±0.005"
 FRACTIONS: ± 1/32" ANGLES: ±0.5°
 2. ALL DIMENSIONS ARE INCHES.
 3. REMOVE ALL BURRS AND SHARP EDGES .015 MAX.
 4. MACHINED SURFACE TO BE 125 MICR-INCHES OR BETTER.
 5. DO NOT SCALE DRAWING.



DESIGN BY	DMR	DATE	05/23/2011
DRAWN BY	AJH	DATE	07/17/2023
CHECKED BY	BL	DATE	07/20/2023
APPROVED BY	DRH	DATE	08/04/2023

Title:
SCOPE OF REGISTRATION - CRYOGENIC GLOBE VALVES

P/N: SEE TABLE

SCALE: N/A Project No.: E220040



DWG NO. CRN-1060/1080

SHEET: SHEET 7 OF 8

REV. K

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PART NO.	PRODUCT DESCRIPTION	PRIMARY PRESSURE RETAINING COMPONENT	ASME / ANSI DESIGN STANDARD	SIZE OR SIZE RANGE	DESIGN PRESSURE			ACTUAL WALL THICKNESS VS MIN REQUIRED	END CONNECTION & SIZE RANGE	REF CALCULATION	DRAWING NO.		
					@	MAX	TEMPERATURE						
CV050PHHYVPxxxx CV050PAXXVPxxxx	MODEL CV (Acme) STRAIGHT-PATTERN GLOBE VALVE W/ RISER	BODY; STUBS; EXTENSION TUBE; FLANGE; BONNET; GASKET; BOLTS	ASME B31.3 ASME B31.12 ASME B16.34	NPS 1/2	600	PSIG @	150 °F	-425 °F	Ext Tube: 0.035/0.028 Valve body: 0.15/0.15	NPS 1/2 BWE	SA-351 CF8M; SA-312 TP 316/316L; SA-213 TP 316/316L; SA-182 F316/316L; SA-479 316/316L; VITON; SA-320 B8, CL.1	E11003 Rev 7	CV050PHHYVPxxxx CV050PAXXVPxxxx
CV100PHHYVPxxxx CV100PAXXVPxxxx	MODEL CV (Acme) STRAIGHT-PATTERN GLOBE VALVE W/ RISER	BODY; STUBS; EXTENSION TUBE; FLANGE; BONNET; GASKET; BOLTS	ASME B31.3 ASME B31.12 ASME B16.34	NPS 1	600	PSIG @	150 °F	-425 °F	Ext Tube: 0.049/0.033 Valve body: 0.19/0.165	NPS 1 BWE	SA-351 CF8M; SA-312 TP 316/316L; SA-213 TP 316/316L; SA-182 F316/316L; SA-479 316/316L; VITON; SA-320 B8, CL.1	E11003 Rev 7	CV100PHHYVPxxxx CV100PAXXVPxxxx
CV150PHHYVPxxxx CV150PAXXVPxxxx	MODEL CV (Acme) STRAIGHT-PATTERN GLOBE VALVE W/ RISER	BODY; STUBS; EXTENSION TUBE; FLANGE; BONNET; GASKET; BOLTS	ASME B31.3 ASME B31.12 ASME B16.34	NPS 1-1/2	600	PSIG @	150 °F	-425 °F	Ext Tube: 0.049/0.042 Valve body: 0.23/0.205	NPS 1-1/2 BWE	SA-351 CF8M; SA-312 TP 316/316L; SA-213 TP 316/316L; SA-182 F316/316L; SA-479 316/316L; VITON; SA-320 B8, CL.1	E11003 Rev 7	CV150PHHYVPxxxx CV150PAXXVPxxxx
CV200PHHYVPxxxx CV200PAXXVPxxxx	MODEL CV (Acme) STRAIGHT-PATTERN GLOBE VALVE W/ RISER	BODY; STUBS; EXTENSION TUBE; FLANGE; BONNET; GASKET; BOLTS	ASME B31.3 ASME B31.12 ASME B16.34	NPS 2	600	PSIG @	150 °F	-425 °F	Ext Tube: 0.049/0.042 Valve body: 0.25/0.24	NPS 2 BWE	SA-351 CF8M; SA-312 TP 316/316L; SA-213 TP 316/316L; SA-182 F316/316L; SA-479 316/316L; VITON; SA-320 B8, CL.1	E11003 Rev 7	CV200PHHYVPxxxx CV200PAXXVPxxxx
CV050PAXXVP-CHK	MODEL CV (Acme) STRAIGHT-PATTERN CHECK VALVE W/ RISER	BODY; STUBS; EXTENSION TUBE; FLANGE; BONNET; GASKET; BOLTS	ASME B31.3 ASME B31.12 ASME B16.34	NPS 1/2	600	PSIG @	150 °F	-425 °F	Ext Tube: 0.035/0.028 Valve body: 0.15/0.15 Bonnet: 0.375/0.164	NPS 1/2 BWE	SA-351 CF8M; SA-312 TP 316/316L; SA-213 TP 316/316L; SA-182 F316/316L; SA-479 316/316L; VITON; SA-320 B8, CL.1	E11003 Rev 7	CV050PAXXVP-CHK
CV100PAXXVP-CHK	MODEL CV (Acme) STRAIGHT-PATTERN CHECK VALVE W/ RISER	BODY; STUBS; EXTENSION TUBE; FLANGE; BONNET; GASKET; BOLTS	ASME B31.3 ASME B31.12 ASME B16.34	NPS 1	600	PSIG @	150 °F	-425 °F	Ext Tube: 0.049/0.033 Valve body: 0.19/0.165 Bonnet: 0.315/0.201	NPS 1 BWE	SA-351 CF8M; SA-312 TP 316/316L; SA-213 TP 316/316L; SA-182 F316/316L; SA-479 316/316L; VITON; SA-320 B8, CL.1	E11003 Rev 7	CV100PAXXVP-CHK
CV150PAXXVP-CHK	MODEL CV (Acme) STRAIGHT-PATTERN CHECK VALVE W/ RISER	BODY; STUBS; EXTENSION TUBE; FLANGE; BONNET; GASKET; BOLTS	ASME B31.3 ASME B31.12 ASME B16.34	NPS 1-1/2	600	PSIG @	150 °F	-425 °F	Ext Tube: 0.049/0.042 Valve body: 0.23/0.205 Bonnet: 0.375/0.248	NPS 1-1/2 BWE	SA-351 CF8M; SA-312 TP 316/316L; SA-213 TP 316/316L; SA-182 F316/316L; SA-479 316/316L; VITON; SA-320 B8, CL.1	E11003 Rev 7	CV150PAXXVP-CHK
CV200PAXXVP-CHK	MODEL CV (Acme) STRAIGHT-PATTERN CHECK VALVE W/ RISER	BODY; STUBS; EXTENSION TUBE; FLANGE; BONNET; GASKET; BOLTS	ASME B31.3 ASME B31.12 ASME B16.34	NPS 2	600	PSIG @	150 °F	-425 °F	Ext Tube: 0.049/0.042 Valve body: 0.25/0.24 Bonnet: 0.625/0.28	NPS 2 BWE	SA-351 CF8M; SA-312 TP 316/316L; SA-213 TP 316/316L; SA-182 F316/316L; SA-479 316/316L; VITON; SA-320 B8, CL.1	E11003 Rev 7	CV200PAXXVP-CHK
YV100PHHYVPxxxxx YV100PAXXVPxxxx	MODEL CV (Acme) Y-PATTERN GLOBE VALVE W/ RISER	BODY; STUBS; EXTENSION TUBE; FLANGE; BONNET; GASKET; BOLTS	ASME B31.3 ASME B31.12 ASME B16.34	NPS 1	600	PSIG @	150 °F	-425 °F	Ext Tube: 0.049/0.033 Valve body: 0.288/0.172	NPS 1 BWE	SA-351 CF8M; SA-312 TP 316/316L; SA-213 TP 316/316L; SA-182 F316/316L; SA-479 316/316L; VITON; SA-320 B8, CL.1	E11003 Rev 7	YV100PHHYVPxxxxx YV100PAXXVPxxxx
YV150PHHYVPxxxx YV150PAXXVPxxxx	MODEL CV (Acme) Y-PATTERN GLOBE VALVE W/ RISER	BODY; STUBS; EXTENSION TUBE; FLANGE; BONNET; GASKET; BOLTS	ASME B31.3 ASME B31.12 ASME B16.34	NPS 1-1/2	600	PSIG @	150 °F	-425 °F	Ext Tube: 0.049/0.042 Valve body: 0.341/0.205	NPS 1-1/2 BWE	SA-351 CF8M; SA-312 TP 316/316L; SA-213 TP 316/316L; SA-182 F316/316L; SA-479 316/316L; VITON; SA-320 B8, CL.1	E11003 Rev 7	YV150PHHYVPxxxx YV150PAXXVPxxxx
YV200PHHYVPxxx YV200PAXXVPxxxx	MODEL CV (Acme) Y-PATTERN GLOBE VALVE W/ RISER	BODY; STUBS; EXTENSION TUBE; FLANGE; BONNET; GASKET; BOLTS	ASME B31.3 ASME B31.12 ASME B16.34	NPS 2	600	PSIG @	150 °F	-425 °F	Ext Tube: 0.049/0.042 Valve body: 0.341/0.240	NPS 2 BWE	SA-351 CF8M; SA-312 TP 316/316L; SA-213 TP 316/316L; SA-182 F316/316L; SA-479 316/316L; VITON; SA-320 B8, CL.1	E11003 Rev 7	YV200PHHYVPxxx YV200PAXXVPxxxx

ORIGINAL

<small>UNLESS OTHERWISE SPECIFIED</small> INTERPRET PER ASME Y14.5-2009 1. THE FOLLOWING TOLERANCES APPLY: DEC: ±0.1" XXX: ±0.005" FRACTIONS: ±1/32" ANGLES: ±0.5° 2. ALL DIMENSIONS ARE INCHES. 3. REMOVE ALL BURRS AND SHARP EDGES .015 MAX. 4. MACHINED SURFACE TO BE 125 MICR-INCHES OR BETTER. 5. DO NOT SCALE DRAWING.	DESIGN BY	DMR	DATE	05/23/2011	Title: SCOPE OF REGISTRATION - CRYOGENIC GLOBE VALVES	 PART OF OPW a DOWNEY company
	DRAWN BY	AJH	DATE	07/17/2023		
	CHECKED BY	BL	DATE	07/20/2023		
	APPROVED BY	DRH	DATE	08/04/2023		
	<small>THIS DRAWING AND THE INFORMATION OR DATA CONTAINED HEREIN ARE CONSIDERED PROPRIETARY TO ACME CRYOGENICS, INC. AND IS NOT TO BE COPIED, REPRODUCED, DUPLICATED OR DISCLOSED TO OTHER IN WHOLE OR IN PART WITHOUT THE PRIOR WRITTEN CONSENT OF ACME CRYOGENICS, INC. THE DRAWING SHOULD BE RETURNED AS SOON AS IT HAS SERVED THE PURPOSES FOR WHICH IT IS FURNISHED AND WHILE IN THE POSSESSION OF THE RECIPIENT SHOULD BE PROPERLY SAFEGUARDED AGAINST DISCLOSURE TO ANYONE EXCEPT EMPLOYEES WHO REQUIRE IT FOR WORK OR A JOB. THIS RESTRICTION SHALL NOT APPLY TO INFORMATION OR DATA CONTAINED HEREIN WHICH IS AVAILABLE TO THE PUBLIC GENERALLY.</small>			P/N: SEE TABLE	DWG NO.	CRN-1060/1080
	SCALE: N/A	Project No.:	E220040	B	SHEET: SHEET 8 OF 8	REV. K

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