

January 08, 2025

Attention: Cecylia Garbacz TECHNICAL STANDARDS & SAFETY AUTHORITY 345 CARLINGVIEW DRIVE TORONTO, ON M9W 6N9

The design submission, Tracking Number 2024-04533, Web Portal Number 2024-S3249, originally received on July 29, 2024 was surveyed and accepted for registration as follows:

**CRN :** 0C15714.2

Reg Type: RENEWAL

Accepted on: January 08, 2025 Expiry Date: January 08, 2035

Drawing No. : CRN-1060/1080 SHEET 1 TO 8 Rev M As Noted

Fitting type: CRYOGENIC GLOBE VALVES

Design registered in the name of : ACME CRYOGENICS

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

- As of January 08, 2025, the registration issued on May 28, 2015, for CRN 0C15714.2 is expired. All registration letters showing an expiry date of May 28, 2025 shall be destroyed.

- See scope of registration for design conditions and notes

As indicated on AB-41 Statutory Declaration or AB-351 Declaration of Conformity form and submitted documentation, the code of construction are ASME B31.3 and B16.34.

- It is our understanding that the fitting(s), included as the scope of this submission, that is(are) subject to the Safety Codes Act shall comply with the requirements of the indicated Standard or Code of Construction on the AB-41 Statutory Declaration or AB-351 Declaration of Conformity as supported by the attached data which identifies the dimensions, materials of construction, press./temp. ratings and the basis for such ratings, and the identification marking of the fittings.

- 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 or AB-351 Declaration of Conformity 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, and maintains a valid Certification of Authorization Permit if required by the jurisdiction where manufacturing takes place, 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 (587) 686-9372 or fax (780) 437-7787 or e-mail Bohuch@absa.ca.

Sincerely,

ohuch

BOHUCH, DAN, P. Eng. DOP Cert. No. D00010785

berta Municipal Affairs

M

the pressur AB-41 2019-08

#### STATUTORY DECLARATION **Registration of Fittings**

Single or Multiple Fitting Designs within one Fitting Category

I, <u>David M. Rakos</u> (name of applicant) of Acme Cryogenics, Inc.	, <u>Director of Engineering</u> (position title) (must be in a position of authority)	In this space, show facsimile of manufacturer's logo or trademark as it will appear on the fitting.
(n	ame of manufacturer)	ACME
located at 2801 Mitchell Avenue	, Allentown, PA, 18103, USA	CRYOGENICS

(plant address)



do solemnly declare that the fittings listed hereunder, which are subject to the Safety Codes Act (select only one)

comply with the requirements of which specifies the dimensions, (title of recognized North American Standard)

materials of construction, pressure/temperature ratings and identification marking of the fittings, or

are not covered by the provisions of a recognized North American standard and are therefore

manufactured to comply with <u>ASME B31.3</u>, B31.12, B16.34 as supported by the (title of code of construction or other applicable document)

attached data which identifies the dimensions, materials of construction, pressure/temperature ratings and the basis for such ratings, and the identification marking of the fittings.

I further declare that the manufacture of these fittings is controlled by a quality control program which has been verified as described in the below Table as being suitable for the manufacturing of these fittings to the stated standard, regulation, code, guideline or other applicable document. The fittings covered by the declaration for which I seek registration are as provided in the Supplementary Sheet(s) attached.

### **Quality Program Verification and Manufacturing Sites**

A copy of the Quality Certificate from each manufacturing site must be included

ltem #	Product Description, Model or Series	Quality Program	Scope of Certification	Expiry Date	Verifying Organization	Location(s) Plant Name and address
1.	Cryogenic valves	CSA B51	Category C, D, E, H	May 2030	TUV Rheinland	Allentown, PA
2.						

berta Municipal Affairs

AB-41 2019-08

In support of this application, the following information, calculations and/or test data are attached:

CRN-1060/1080, Rev. J, Scope of CRN Registration; Calculation No. E11003, Rev. 7 Rev. 8 - DB Rev. M - DB 8/4/2023 (Signature of the Declarer DECLARED before me at <u>Allentoun</u> in the <u>State</u> of <u>Pennsulvania</u> (city) this <u>Hth</u> day of <u>August</u>, <u>2023</u> (Month), (Year) (print) <u>Sarah Painter</u> (a Commissioner of Oaths or Notary Public) Commonwealth of Pennsylvania - Notary Seal (sign) (a Commissioner of Oaths or Notary Public) SARAH PAINTER - Notary Public Lehigh County My Commission Expires August 10, 2026 08/10/200 (expiry date (mm/dd/yy)) Commission Number 1424224 Commissioner of Oaths / Notary Public in and for: Communeatth of Pennsylvania For ABSA Office Use Only: NOTES: To the best of my knowledge and belief, the application meets the requirements of the Safety Codes Act and CSA Standard B51, Part 1, Clause 4.2, and is accepted for 2024-04533 registration in Category ARSA SAFETY CODES ACT - PROVINCE OF ALBERTA CRN:\_\_\_\_\_ ACCEPTED: 0C15714. 2 See acceptance letter for Registered Date: conditions of registration. Date: 2025-01-08 By: & Bohuch DAN BOHUCH, P. Eng. DOP: D00010785 This stamp and signature have been affixed electronically Signature: to this registered design as required by Section 20(1) of

(Signature of the Administrator/SCO)

The information you provide is necessary only for the administration of the programs as required by the Alberta Safety Codes Act and Regulations in the Pressure Equipment Discipline

the Pressure Equipment Safety Regulation, in accordance

with the Flectronic Transactions Act

		4			3					2			]	
[	PART NO.	PRODUCT DESCRIPTION	PRIMARY PRESSURE RETAINING COMPONENT	ASME / ANSI DESIGN STANDARD	SIZE OR SIZE RANGE	DESIGN PRE @ MAX TEMP		MDMT	ACTUAL WALL THICKNESS VS MIN REQUIRED	END CONNECTION & SIZE RANGE	ASME / ASTM MATERIAL SPECIFICATION	REF CALCULATION	REF CALC FIGURE NO.	
	CV0500HHYVPxxxx CV0500HHYOPxxxx 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 @	9 150 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 8	A-1	
	CV1000HHYVPxxxx CV1000HHYOPxxxx 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 @	9 150 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 8	A-1	
	CV1500HHYVPxxxx CV1500HHYOPxxxx CV1500xxYVPxxxx CV1500xxYVPxxxx	MODEL CV (Acme) STRAIGHT-PATTERN GLOBE VALVE	BODY; STUBS; EXTENSION TUBE; FLANGE; BONNET; GASKET; BOLTS	ASME B31.3 ASME B31.12 ASME B16.34	2024-0	, 4533 <sup>°</sup>	₽ 150 F	-425 °F	Ext Tube: 0.049/0.042 Value body: 0.23/0.205	NPS 1-1/2 BWE	A-351 CF8M; SA-312 TP 316/316L; SA 113 TP 316/316L; SA-182 F316/316L; SA-79 316/316L; VITON; SA-320 B8, CL.1	E11003 Rev 8	A-1	
В	CV1900xxY0Fxxxx CV2000HHYVPxxxx CV2000HHYOPxxxx CV2000xxYVPxxxx CV2000xxYVPxxxx	MODEL CV (Acme) STRAIGHT-PATTERN GLOBE VALVE	BODY; STUBS; EXTENSION TUBE; FLANGE; BONNET; GASKET; BOLTS	ASME B31.3 ASME B31.12 ASME B16.34		600 PSIG @		-425 °F	Ext Tube: 0.049/0.042 Valve body: 0.25/0.24 PROVINCE O		A-351 CF8M; SA-312 TP 316/316L; SA :13 TP 316/316L; SA-182 F316/316L; SA- 79 316/316L; VITON; SA-320 B8, CL.1	E11003 Rev 8	A-1	В
	CV2000XT0FXXXX CV3000HHYVPxxxx CV3000HHYOPxxxx 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			<u> </u>	]	Ext Tube: 0.188/0.074 1507/1.34/0.281		A-351 CF8M; SA-312 TP 316/316L; SA 113 TP 316/316L; SA-182 F316/316L; SA- 79 316/316L; VITON; SA-320 B8, CL.1	E11003 Rev 8	A-1	
	CV4000HHYVPxxxx CV4000HHYOPxxxx 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					nčë lëtte		A-351 CF8M; SA-312 TP 316/316L; SA 213 TP 316/316L; SA-182 F316/316L; SA-79 316/316L; VITON; SA-320 B8, CL.1	E11003 Rev 8	A-1	
	CV0500HHYOSPxx 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	condi	tio	n <del>s</del> C	f <b>registr</b> a	tionswe	SA-351 CF8M; SA-479 316/316L; SA 13 TP 316/316L; SA-182 F316/316L; VITON; SA-320 B8, CL.1	E11003 Rev 8	A-1	
	CV1000HHYOSPxx CV1000AxxOSPxxx	MODEL CV (Acme) STRAIGHT-PATTERN GLOBE VALVE	BODY; BONNET; EXTENSION TUBE; FLANGE; GASKET; BOLTS		Date:	2025-@	Ĩ₽₽₽	<b>8</b> -425 °F	y: R B	chuch	SA-351 CF8M; SA-479 316/316L; 13 TP 316/316L; SA-182 F316/316L; VITON; SA-320 B8, CL.1	E11003 Rev 8	A-1	
	CV1500HHYOSPxx CV1500AxxOSPxx	MODEL CV (Acme) STRAIGHT-PATTERN GLOBE VALVE MODEL CV (Acme)	BODY; BONNET; EXTENSION TUBE; FLANGE; GASKET; BOLTS BODY; BONNET;	ASME B31.3 ASME B31.12 ASME B16.34 ASME B31.3	NPS 1-1/2	600 PSIG @	9 150 °F	-425 °F	Ext Tube. 0.0350042 Valve body: DANOBO	<b>┝┝╊: ₽0001078</b>	SA-351 CF8M; SA-479 316/316L; ngfA 13 TP 316/316L; SA-182 F316/316L; VITON; SA-320 B8, CL.1 SA-351 CF8M; SA-479 316/316L;	E11003 Rev 8	A-1	<u> </u>
	CV2000HHYOSPxx CV2000AxxOSPxx CV0500AXXVP-CHK	STRAIGHT-PATTERN GLOBE VALVE MODEL CV (Acme)	EXTENSION TUBE; FLANGE; GASKET; BOLTS BODY; STUBS;	ASME B31.12 ASME B16.34	This sta	mp and s	ignat	ure h	Ext Tube: 0.035/0.028		SA-213 TP 316/316L; SA-182 F316/316L; ally viton; SA-320 B8, CL.1	E11003 Rev 8	A-1	
	CV0500AXXVP-CHK CV0500AXXOP-CHK	STRAIGHT-PATTERN CHECK VALVE MODEL CV (Acme)	EXTENSION TUBE; FLANGE; BONNET; GASKET; BOLTS BODY; STUBS;	ASME B16.34 ASME B31.3	the Pres	sure Equ	<b>iipm</b> e	nt Saf	ety, Regulation,	in accorda	SA-351 CF8M; SA-312 TP 316/316L; of sa-213 TP 316/316L; SA-182 F316/316L; SA-479 316/316L; VITON; SA-320 B8, CL.1 SA-351 CF8M; SA-312 TP 316/316L;	E11003 Rev 8	A-4	
	CV1000AXXOP-CHK	STRAIGHT-PATTERN CHECK VALVE	EXTENSION TUBE; FLANGE; BONNET; GASKET; BOLTS		<b>小ith⁵ťh</b> ∈	Fleatror	ĥ <mark>i</mark> た⁰Ťr.	ลกรี่ล่า	Bonnet: 0.315/0.201	NPS 1 BWE	SA-213 TP 316/316L; SA-182 F316/316L; SA-479 316/316L; VITON; SA-320 B8, CL.1	E11003 Rev 8	A-4	
	CV1500AXXVP-CHK CV1500AXXOP-CHK	MODEL CV (Acme) STRAIGHT-PATTERN CHECK VALVE	BODY; STUBS; EXTENSION TUBE; FLANGE; BONNET; GASKET; BOLTS	ASME B16.34	NPS 1-1/2	600 PSIG @	9 150 °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 8	A-4	
	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 @	9 150 °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 8	A-4	
А	ASME B31. ASME B31. ASME B16.	ESIGN & CONSTRUG 3, PROCESS PIPINO 12, HYDROGEN PIF 34, VALVES -FLANC	G CODE PING & PIPELINES COE GED, THREADED, AND	WELDING END					-325°F FOR VALVES W (SB-283) C37700 MATE		ONSTRUCTED	(	ORIGINAL	A
	2. SAFE WORKIN RANGE OF -4	IG PRESSURE (NON 25°F TO +200°F (LIM	/ESSEL, & PRESSURE PI I SHOCK) 600 PSIG MA MITED TO 150°F BY THE	AX. WITHIN THE T		RE 1	. THE FOLLOWING T .XX: ±.01" .XXX: ± FRACTIONS: ± 1/3 . ALL DIMENSIONS AF	R ASME Y14.5-2009 OLERANCES APPLY: ±.005" 2" ANGLES" ±0.5° RE INCHES.		05/23/2011 <sup>TE</sup> 07/17/2023	Title: SCOPE OF REGISTRATION - CRYOGENIC GLOBE VALVES	AC	:ME🍣	
			S; SEE ECN FOR DETAILS S; SEE ECN FOR DETAILS	05/30/2024 9/17/2024	AJH DRI AJH DRI	H 10559 4	. REMOVE ALL BURRS .015 MAX . MACHINED SURFACI MICR-INCHES OR BI . DO NOT SCALE DRA	E TO BE 125 ETTER. WING.	APPROVED BY DRH DAT	TE         07/20/2023           TE         08/04/2023           RE CONSIDERED PROPRIETARY TO ACME         D		PART OF	GENICS	-
	M REV	MULTIPLE CHANGE	S; SEE ECN FOR DETAILS CRIPTION	12/18/2024 DATE	AJH DM				CRYOCHUCS, INC. AND IS NOT TO BE COPED, REPRODUCED, DUPLICA PART WITHOUT THE PRIOR WITH LONGENT OF ADDRE CRYOCHUCS, SOON AS IT HAS SERVED THE PURPOSES FOR WHICH IT IS FURNISHED SHOULD BE PROFERLY SAFEGURARED AGUNGT DISCLOSURE TO INFORMATION OR OR A 2008. IT HAS RESTRICTION SHULL NOT APPLY TO INFORMATION OR THE PUBLIC GENERALLY.	, INC. THE DRAWING SHOULD BE RETURNED AS AND WHILE IN THE POSSESSION OF THE RECIPIENT	p/N: SEE TABLE CALE:N/A Project No.: E220040	DWG NO. C B SHEET: SHE	RN-1060/1080 ET 1 OF 8 REV. M	

		4			3						2			-		
	PART NO.	PRODUCT DESCRIPTION	PRIMARY PRESSURE RETAINING COMPONENT	ASME / ANSI DESIGN STANDARD	SIZE OR SIZE RANGE		i Pressui Emperat		MDMT	ACTUAL WALL THICKNESS VS MIN REQUIRED	END CONNECTION & SIZE RANGE	ASME / ASTM MATER	AL SPECIFICATION	REF CALCULATION	REF CALC FIGURE NO.	
	CV0500HHYVPxxxx CV0500HHYOPxxxx 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 PS	SIG @ 15	50 <b>°</b> F	-425 <b>°</b> F	Ext Tube: 0.035/0.028 Valve body: 0.15/0.15	NPS 1/2 BWE	SA-351 CF8M; SA-3 SA-213 TP 316/316L; SA-479 316/316L; VIT	SA-182 F316/316L;	E11003 Rev 8	A-1	
	CV1000HHYVPxxxx CV1000HHYOPxxxx 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 PS	SIG @ 19	50 <b>°</b> F	-425 °F	Ext Tube: 0.049/0.033 Valve body: 0.19/0.165	NPS 1 BWE	SA-351 CF8M; SA-3 SA-213 TP 316/316L; SA-479 316/316L; VIT	SA-182 F316/316L;	E11003 Rev 8	A-1	
	CV1500HHYVPxxxx CV1500HHYOPxxxx CV1500xxYVPxxxx CV1500xxYVPxxxx	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 P	SIG @ 15	50 °F	-425 <b>*</b> F	Ext Tube: 0.049/0.042 Valve body: 0.23/0.205	NPS 1-1/2 BWE	SA-351 CF8M; SA-3 SA-213 TP 316/316L; SA-479 316/316L; VIT	SA-182 F316/316L;	E11003 Rev 8	A-1	
В	CV2000HHYVPxxxx CV2000HHYOPxxxx 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 PS	SIG @ 15	50 <b>°</b> F	-425 <b>°</b> F	Ext Tube: 0.049/0.042 Valve body: 0.25/0.24	NPS 2 BWE	SA-351 CF8M; SA-3 SA-213 TP 316/316L; SA-479 316/316L; VIT	SA-182 F316/316L;	E11003 Rev 8	A-1	B
	CV3000HHYVPxxxx CV3000HHYOPxxxx 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 PS	SIG @ 15	50 °F	-425 <b>*</b> F	Ext Tube: 0.188/0.074 Valve body: 0.313/0.281	NPS 3 BWE	SA-351 CF8M; SA-3 SA-213 TP 316/316L; SA-479 316/316L; VIT	SA-182 F316/316L;	E11003 Rev 8	A-1	
	CV4000HHYVPxxxx CV4000HHYOPxxxx 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 PS	SIG @ 15	50 <b>°</b> F	-425 <b>*</b> F	Ext Tube: 0.188/0.074 Valve body: 0.313/0.281	NPS 4 BWE	SA-351 CF8M; SA-3 SA-213 TP 316/316L; SA-479 316/316L; VIT	SA-182 F316/316L;	E11003 Rev 8	A-1	
	CV0500HHYOSPxx 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 PS	SIG @ 15	50 °F	-425 <b>*</b> F	Ext Tube: 0.035/0.028 Valve body: 0.15/0.15	NPS 1/2 SWE	SA-351 CF8M; SA SA-213 TP 316/316L; VITON; SA-32	SA-182 F316/316L;	E11003 Rev 8	A-1	
	CV1000HHYOSPxx CV1000AxxOSPxxx	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 P	SIG @ 15	50 °F	-425 °F	Ext Tube: 0.049/0.033 Valve body: 0.19/0.165	NPS 1 SWE	SA-351 CF8M; SA SA-213 TP 316/316L; VITON; SA-32	SA-182 F316/316L;	E11003 Rev 8	A-1	
	CV1500HHYOSPxx 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 P	SIG @ 15	50 °F	-425 <b>*</b> F	Ext Tube: 0.049/0.042 Valve body: 0.23/0.205	NPS 1-1/2 SWE	SA-351 CF8M; SA SA-213 TP 316/316L; VITON; SA-32	SA-182 F316/316L;	E11003 Rev 8	A-1	
	CV2000HHYOSPxx CV2000AxxOSPxx	MODEL CV (Acme) STRAIGHT-PATTERN GLOBE VALVE	BODY; BONNET; EXTENSION TUBE; FLANGE; GASKET; BOLTS	ASME B31.3	NPS 2	600 PS	SIG @ 15	50 <b>°</b> F	-425 <b>*</b> F	Ext Tube: 0.049/0.042 Valve body: 0.25/0.24	NPS 2 SWE	SA-351 CF8M; SA SA-213 TP 316/316L; VITON; SA-32	-479 316/316L; SA-182 F316/316L;	E11003 Rev 8	A-1	
	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 P	SIG @ 15	50 °F	-425 <b>*</b> 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-3 SA-213 TP 316/316L; SA-479 316/316L; VIT	SA-182 F316/316L;	E11003 Rev 8	A-4	
	CV1000AXXVP-CHK CV1000AXXOP-CHK	MODEL CV (Acme) STRAIGHT-PATTERN CHECK VALVE	BODY; STUBS; EXTENSION TUBE; FLANGE; BONNET; GASKET; BOLTS	ASME B31.3	NPS 1	600 P	SIG @ 15	50 °F	-425 <b>*</b> 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-3 SA-213 TP 316/316L; SA-479 316/316L; VIT	12 TP 316/316L; SA-182 F316/316L;	E11003 Rev 8	A-4	
	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 PS	SIG @ 15	50 <b>°</b> F	-425 <b>*</b> 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-3 SA-213 TP 316/316L; SA-479 316/316L; VIT	12 TP 316/316L; SA-182 F316/316L;	E11003 Rev 8	A-4	
	CV2000AXXVP-CHK CV2000AXXOP-CHK	MODEL CV (Acme) STRAIGHT-PATTERN CHECK VALVE	BODY; STUBS; EXTENSION TUBE; FLANGE; BONNET; GASKET; BOLTS		NPS 2	600 PS	SIG @ 15	50 <b>°</b> F	-425 <b>*</b> 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-3 SA-213 TP 316/316L; SA-479 316/316L; VIT	SA-182 F316/316L;	E11003 Rev 8	A-4	
А		<u>s:</u> Esign & constru( 3, process piping								-325°F FOR VALVES W (SB-283) C37700 MATE		ONSTRUCTED				A
	ASME B16	34, VALVES -FLANC	PING & PIPELINES COL GED, THREADED, AND	WELDING END										C	ORIGINAL	
	2. SAFE WORKIN RANGE OF -4	IG PRESSURE (NON 25°F TO +200°F (LIM	/ESSEL, & PRESSURE PI I SHOCK) 600 PSIG M/ MITED TO 150°F BY THE	AX. WITHIN THE T		RE	INTI 1. THE FC .XX: ±. FRACT 2. ALL DIM	THERWISE SPEC TERPRET PER AS OLLOWING TOLE OLLOWING TOLE OLLOWING TOLE OLLOWING TOLE TIONS: ± 1/32" MENSIONS ARE II VE ALL BURRS ANI	SME Y14.5-2009 RANCES APPLY: 5" ANGLES" ±0.5° INCHES.		05/23/2011	Title: SCOPE OF REGIST CRYOGENIC GLO	RATION - BE VALVES	AC	:ME∌	
			s; see ecn for details	05/30/2024	AJH DRH		.015 MA 4. MACHIN MICR-IN	NED SURFACE TO INCHES OR BETTE T SCALE DRAWIN	D BE 125 ER.		07/20/2023 TE 08/04/2023				GENICS ৹pwila <mark>∎00488</mark> ,company	
	L M	MULTIPLE CHANGES	s; see ecn for details s; see ecn for details	9/17/2024	AJH DRH AJH DMF	R 10642				THIS DRAWING AND THE INFORATION OR DATA CONTAINED HEREIN AR CRYOGENICS, INC. AND IS NOT TO BE COPIED, REPRODUCED, DUFLICAT PART WITHOUT THE PRIOR WRITTEN CONSENT OF AME CRYOGENICS, SOON AS IT HAS SERVED THE RURPOSES FOR WHICH IT IS FURNISHED SHOULD BE PROPERLY SAFELIARED BAGINIST DISLOSURET TO MYTON	TED OR DISCLOSED TO OTHER IN WHOLE OR IN INC. THE DRAWING SHOULD BE RETURNED AS AND WHILE IN THE POSSESSION OF THE RECIPIENT	P/N: SEE TABLE SCALE:N/A Project No.	. E220040		RN-1060/1080	_
	REV		CRIPTION	DATE		BY ECN NO		¥ `	<b>→</b>	OR A JOB. THIS RESTRICTION SHALL NOT APPLY TO INFORMATION OR THE PUBLIC GENERALLY.			.: LZZUU4U   B	B SHEET: SHE	ET 1 OF 8 REV. M	
		4			3						Z				l	

	4			3				2			
PART NO	D. 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	REF CALC FIGURE NO
CV0500AXXS	P-CHK 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, CL.1	E11003 Rev 8	A-4
CV1000AXXS	P-CHK 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, CL.1	E11003 Rev 8	<b>A</b> -4
CV1500AXXS	P-CHK 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, CL.1	E11003 Rev 8	A-4
CV2000AXXS	P-CHK 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, CL.1	E11003 Rev 8	A-4
AV1000HHYV AV1000HHYC AV1000AxxV AV1000AxxC	Pxxxx Pxxxx ANGLE-PATTERN GLOBE	BODY; STUBS; EXTENSION TUBE; FLANGE; BONNET; GASKET; BOLTS	ASME B31.3 ASME B31.12 ASME B16.34	NPS 1	600 PSIG @ 150 *F	-425 <b>*</b> 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, CL.1	E11003 Rev 8	A3
AV1500HHYV AV1500HHYC AV1500AxxV AV1500AxxC	Pxxxx Pxxxx Pxxxx VALVE	BODY; STUBS; EXTENSION TUBE; FLANGE; BONNET; GASKET; BOLTS	ASME B31.3 ASME B31.12 ASME B16.34	NP5 1-1/2	600 PSIG @ 150 *F	-425 <b>*</b> 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, CL.1	E11003 Rev 8	A-3
AV2000HHYV AV2000HHYC AV2000xxVF AV2000AxxO	Pxxxx ANGLE-PATTERN GLOBE	BODY; STUBS; EXTENSION TUBE; FLANGE; BONNET; GASKET; BOLTS	ASME B31.3 ASME B31.12 ASME B16.34	NPS 2	600 PSIG @ 150 F	-425 <b>*</b> 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, CL.1	E11003 Rev 8	A-3
AV1000HHY0 AV1000Axx0	I ANGLE-PATTERN GLOBE	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, CL.1	E11003 Rev 8	A-3
AV1500HHY0 AV1500Axx0	ANGLE-PATTERN GLOBE	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, CL.1	E11003 Rev 8	A-3
AV2000HHY0 AV2000Axx0	I ANGLE-PATTERN GLOBE	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, CL.1	E11003 Rev 8	A-3
YV1000HHYV YV1000HHYO YV1000AxxV YV1000AxxO	Pxxxx MODEL CV (Acme) Pxxxx 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 <b>*</b> 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 8	A-2
YV1500HHYV YV1500HHYO YV1500AxxV YV1500AxxO	Pxxxx MODEL CV (Acme) Pxxxx 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 <b>°</b> 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 8	A-2
YV2000HHY0 YV2000HHY0 YV2000AxxV YV2000Axx0	PXXXX MODEL CV (Acme) /SPXX 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 <b>°</b> 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 8	A-2
YV3000HHY0 YV3000HHY0 YV3000AxxV YV3000Axx0	PXXXX MODEL CV (Acme) /SPXX 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 <b>*</b> 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, CL.1	E11003 Rev 8	A-2
YV4000HHYV YV4000HHYO YV4000AxxV YV4000AxxO	Pxxxx MODEL CV (Acme) Pxxxx Y-PATTERN GLOBE VALVE	BODY; STUBS; EXTENSION TUBE; FLANGE; BONNET; GASKET; BOLTS		NPS 4	600 PSIG @ 150 F	-425 <b>*</b> 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, CL.1	E11003 Rev 8	A-2

UNLESS OTHERWISE SPECIFIED	DESIGN BY		DATE		Title:	
INTERPRET PER ASME Y14.5-2009		DMR		05/23/2011		
1. THE FOLLOWING TOLERANCES APPLY: .XX: ±.01" .XXX: ±.005" FRACTIONS: ± 1/32" ANGLES" ±0.5*	DRAWN BY	AJH	DATE	07/17/2023	SCOPE OF R	
2. ALL DIMENSIONS ARE INCHES.	CHECKED BY		DATE			
3. REMOVE ALL BURRS AND SHARP EDGES .015 MAX	CHECKED BT	BL	DATE	07/20/2023		
4. MACHINED SURFACE TO BE 125 MICR-INCHES OR BETTER.	APPROVED BY	DRH	DATE	08/04/2023		
5. DO NOT SCALE DRAWING.		2		00/01/2020		
THIRD ANGLE PROJECTION	CRYOGENICS, INC. AND IS N PART WITHOUT THE PRIOR V	OT TO BE COPIED, REPRODUCED VRITTEN CONSENT OF ACME CRY	DUPLICATED	ONSIDERED PROPRIETARY TO ACME OR DISCLOSED TO OTHER IN WHOLE OR IN THE DRAWING SHOULD BE RETURNED AS IN WHILE IN THE POSSESSION OF THE RECIPIENT	P/N: SEE TABI	_E
	SHOULD BE PROPERLY SAFEC	SUARDED AGAINST DISCLOSURE	TO ANYONE EX	CEPT EMPLOYEES WHO REQUIRE IT FOR WORK	SCALE: $N/A$ Pro	jecl
				2		

3

# ORIGINAL

В

Α

GISTRATION - GLOBE VALVES			
		DWG NO. CRN-106	0/1080
<b>:t No</b> .: E220040	В	SHEET: SHEET 2 OF 8	REV. M

r		4			3						2				1
	PART NO.	PRODUCT DESCRIPTION	PRIMARY PRESSURE RETAINING COMPONENT	ASME / ANSI DESIGN STANDARD	SIZE OR SIZE RANGE		GN PRES X TEMPE	SURE	MDMT	ACTUAL WALL THICKNESS VS MIN REQUIRED	END CONNECTION & SIZE RANGE	ASME / ASTM MATERIA	AL SPECIFICATION	REF CALCULATION	REF CALC FIGURE 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 <b>°</b> F	-425 <b>°</b> F	Ext Tube: 0.049/0.033 Valve body: 0.288/0.172	NPS 1 SWE	SA-351 CF8M; SA-4 SA-213 TP 316/316L; S/ VITON; SA-320	A-182 F316/316L;	E11003 Rev 8	A-2
	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 <b>°</b> F	-425 °F	Ext Tube: 0.049/0.042 Valve body: 0.341/0.205	NPS 1-1/2 SWE	SA-351 CF8M; SA-4 SA-213 TP 316/316L; S/ VITON; SA-320	A-182 F316/316L;	E11003 Rev 8	A-2
	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 <b>°</b> F	-425 °F	Ext Tube: 0.049/0.042 Valve body: 0.341/0.240	NPS 2 SWE	SA-351 CF8M; SA-4 SA-213 TP 316/316L; S/ VITON; SA-320	A-182 F316/316L;	E11003 Rev 8	A-2
П	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 <b>°</b> F	-425 °F	Ext Tube: 0.188/0.074 Valve body: 0.341/0.281	NPS 3 SWE	SA-351 CF8M; SA-4 SA-213 TP 316/316L; S/ VITON; SA-320	A-182 F316/316L;	E11003 Rev 8	A-2
B	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 <b>°</b> F	-425 <b>*</b> F	Ext Tube: 0.188/0.074 Valve body: 0.611/0.314	NPS 4 SWE	SA-351 CF8M; SA-4 SA-213 TP 316/316L; S/ VITON; SA-320	A-182 F316/316L;	E11003 Rev 8	A-2
	CT1000HHYVPxxxx CT1000AxxVPxxxx	MODEL CT (Acme) STRAIGHT-PATTERN GLOBE VALVE	BODY; STUBS; EXTENSION TUBE; FLANGE; BONNET; GASKET; BOLTS		NPS 1	600	PSIG @	150 <b>°</b> F	-425 <b>*</b> F	Ext Tube: 0.049/0.033 Valve body: 0.19/0.165	NPS 1 BWE	SA-351 CF8M; SA-31 SA-213 TP 316/316L; S SA-479 316/316L; VITO	A-182 F316/316L;	E11003 Rev 8	A-1
	CT1500HHYVPxxxx CT1500AxxVPxxxx	MODEL CT (Acme) STRAIGHT-PATTERN GLOBE VALVE	BODY; STUBS; EXTENSION TUBE; FLANGE; BONNET; GASKET; BOLTS	ASME B31.3	NPS 1-1/2	600	PSIG @	150 <b>°</b> F	-425 <b>*</b> F	Ext Tube: 0.049/0.042 Valve body: 0.23/0.205	NPS 1-1/2 BWE	SA-351 CF8M; SA-31 SA-213 TP 316/316L; S SA-479 316/316L; VITO	A-182 F316/316L;	E11003 Rev 8	A-1
	CT2000HHYVPxxxx CT2000AxxVPxxxx	MODEL CT (Acme) STRAIGHT-PATTERN GLOBE VALVE	BODY; STUBS; EXTENSION TUBE; FLANGE; BONNET; GASKET; BOLTS		NPS 2	600	PSIG @	150 <b>°</b> F	-425 <b>*</b> F	Ext Tube: 0.049/0.042 Valve body: 0.25/0.24	NPS 2 BWE	SA-351 CF8M; SA-31 SA-213 TP 316/316L; S SA-479 316/316L; VITO	A-182 F316/316L;	E11003 Rev 8	A-1
	CT100AHHYCSPxx CT100AxxYCSPxx	MODEL CT (Acme) ANGLE-PATTERN GLOBE VALVE	BODY; BONNET; EXTENSION TUBE; FLANGE; GASKET; BOLTS	ASME B31.3	NPS 1	600	PSIG @	150 <b>•</b> F	-425 <b>*</b> F	Ext Tube: 0.049/0.033 Valve body: 0.19/0.175	NPS 1 SWE	SA-351 CF8M; SA-4 SA-213 TP 316/316L; S/ VITON; SA-320	79 316/316L; A-182 F316/316L;	E11003 Rev 8	A-3
	CT150AHHYCSPxx CT150AAxxYCSPxx	MODEL CT (Acme)	BODY; BONNET;	ASME B31.3	NPS 1-1/2	600	PSIG @	150 <b>•</b> F	-425 <b>*</b> F	Ext Tube: 0.049/0.042 Valve body: 0.23/0.21	NPS 1-1/2 SWE	SA-351 CF8M; SA-4 SA-213 TP 316/316L; S/ VITON; SA-320	79 316/316L; A-182 F316/316L;	E11003 Rev 8	A-3
	CT200AHHYCSPxx CT200AAxxYCSPxx	MODEL CT (Acme) ANGLE-PATTERN GLOBE VALVE	BODY; BONNET; EXTENSION TUBE; FLANGE; GASKET; BOLTS	ASME B31.3	NPS 2	600	PSIG @	150 <b>•</b> F	-425 <b>*</b> F	Ext Tube: 0.049/0.042 Valve body: 0.25/0.247	NPS 2 SWE	SA-351 CF8M; SA-4 SA-213 TP 316/316L; S/ VITON; SA-320	79 316/316L; A-182 F316/316L;	E11003 Rev 8	A-3
	CT100YHHYCSPxx CT100YAxxCSPxx	MODEL CT (Acme) Y-PATTERN GLOBE VALVE	BODY; BONNET;	ASME B31.3	NPS 1	600	PSIG @	150 <b>•</b> F	-425 °F	Ext Tube: 0.049/0.033 Valve body: 0.288/0.172	NPS 1 SWE	SA-351 CF8M; SA-4 SA-213 TP 316/316L; S/ VITON; SA-320	79 316/316L; A-182 F316/316L;	E11003 Rev 8	A-2
	CT150YHHYCSPxx CT150YAxxxCSPxx	MODEL CV (Acme) Y-PATTERN GLOBE VALVE	BODY; BONNET;	ASME B31.3	NPS 1-1/2	600	PSIG @	150 <b>°</b> F	-425 <b>*</b> F	Ext Tube: 0.049/0.042 Valve body: 0.341/0.205	NPS 1-1/2 SWE	SA-351 CF8M; SA-4 SA-213 TP 316/316L; S/ VITON; SA-320	.79 316/316L; A-182 F316/316L;	E11003 Rev 8	A-2
	CT200YHHYCSPxx CT200YAxxCSPxx	MODEL CV (Acme) Y-PATTERN GLOBE VALVE	BODY; BONNET;	ASME B31.3	NPS 2	600	PSIG @	150 <b>-</b> F	-425 <b>*</b> F	Ext Tube: 0.049/0.042 Valve body: 0.341/0.240	NPS 2 SWE	SA-351 CF8M; SA-4 SA-213 TP 316/316L; S/ VITON; SA-320	79 316/316L; A-182 F316/316L;	E11003 Rev 8	A-2
	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	NPS 1/2	600	PSIG @	150 <b>-</b> F	-425 °F	Ext Tube: 0.049/0.033 Valve body: 0.188/0.14	NPS 1/2 BWE	SA-351 CF8M; SA-31 SA-213 TP 316/316L; S. SA-479 316/316L; VITO	2 TP 316/316L; A-182 F316/316L;	E11003 Rev 8	A-2
	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	NPS 3/4	600	PSIG @	150 <b>°</b> F	-425 °F	Ext Tube: 0.049/0.033 Valve body: 0.188/0.14	NPS 3/4 BWE	SA-351 CF8M; SA-31 SA-213 TP 316/316L; S SA-479 316/316L; VITO	2 TP 316/316L; A-182 F316/316L;	E11003 Rev 8	A-2
A	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	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-31 SA-213 TP 316/316L; S SA-479 316/316L; VITO	2 TP 316/316L; A-182 F316/316L;	E11003 Rev 8	A-2

UNLESS OTHERWISE SPECIFIED	DESIGN BY		DATE		Title:	
INTERPRET PER ASME Y14.5-2009		DMR		05/23/2011		
1. THE FOLLOWING TOLERANCES APPLY: .XX: ±.01" .XXX: ±.005" FRACTIONS: ± 1/32" ANGLES" ±0.5*	DRAWN BY	AJH	DATE	07/17/2023	SCOPE C CRYOGE	
2. ALL DIMENSIONS ARE INCHES.	CHECKED BY		DATE			
3. REMOVE ALL BURRS AND SHARP EDGES .015 MAX	CHECKED BY	BL	DATE	07/20/2023		
<ol> <li>MACHINED SURFACE TO BE 125 MICR-INCHES OR BETTER.</li> </ol>	APPROVED BY	DRH	DATE	08/04/2023		
5. DO NOT SCALE DRAWING.		2		00/01/2020		
	CRYOGENICS, INC. AND IS NO PART WITHOUT THE PRIOR V	OT TO BE COPIED, REPRODUCED, WRITTEN CONSENT OF ACME CRY	OUPLICATED O	INSIDERED PROPRIETARY TO ACME OR DISCLOSED TO OTHER IN WHOLE OR IN THE DRAWING SHOULD BE RETURNED AS WHILE IN THE POSSESSION OF THE RECIPIENT	P/N: SEE T/	ABLE
	SHOULD BE PROPERLY SAFEG	SUARDED AGAINST DISCLOSURE	TO ANYONE EX	WHILE IN THE POSSESSION OF THE RELIPIENT CEPT EMPLOYEES WHO REQUIRE IT FOR WORK A CONTAINED HEREIN WHICH IS AVAILABLE TO	scale:N/A	Project
			1	2		
•						

3

## В

Α

### ORIGINAL

GISTRATION - GLOBE VALVES				y
		DWG NO. CRN-1060	0/1080	
<b>:t No</b> .: E220040	В	SHEET: SHEET 3 OF 8	REV.	Μ

		4			3					2			1	
	PART NO.		PRIMARY PRESSURE RETAINING COMPONENT	ASME / ANSI DESIGN STANDARD	SIZE OR	DESIGN PE @ MAX TEM		MDMT	ACTUAL WALL THICKNESS VS MIN REQUIRED	END CONNECTION & SIZE RANGE	ASME / ASTM MATERIAL SPECIFICATION	REF CALCULATION	REF CALC FIGURE NO.	
		MODEL CT (Acme)	BODY; BONNET;	ASME B31.3	SIZE NANGE	WINAX TEN	IPERAIORE			OLDIZE RAINGE	SA-351 CF8M; SA-479 316/316L;	CALCOLATION	REF CALC FIGURE NO.	
	CT05YTHHYxSPxx CT05YTAxxxSPxx	Y-PATTERN LOW FLOW GLOBE VALVE			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-213 TP 316/316L; SA-182 F316/316L; VITON; SA-320 B8, CL.1	E11003 Rev 8	A-2	
	CT07YTHHYxSPxx CT07YTAxxxxSPxx	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, CL.1	E11003 Rev 8	A-2	
	CT10YTHHYxSPxx CT10YTAxxxSPxx	MODEL CT (Acme) Y-PATTERN LOW FLOW GLOBE VALVE	EXTENSION TUBE; FLANGE; GASKET; BOLTS	ASME B31.3	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;	E11003 Rev 8	A-2	
B	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 78-2542-03515 78-2542-03155 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	NP5 1/2	600 PSIG	@ 150 °F	-425 °F	Ext Tube: 0.083/0.033 Valve body: 0.19/0.155	NPS 1/2 BWE	VITON; SA-320 B8, CL.1 SA-351 CF3; SA-312 TP 304/304L; SA-213 TP 304/304L; SA-182 F304/304L; SA-479 304/304L; SA-320 B8, CL1; VITON; SA-283 C46400 OR C37700 (SEE NOTE 4)	E11003 Rev 8	A-1	B
A	81-2542-02613 81-2542-02617 81-2542-02621 88-2542-02893 88-2542-02897 88-2542-02897 88-2542-03675 78-2542-03675 78-2542-03675 78-2542-03375 78-2542-03377 78-2542-03535 78-2542-03535 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	NP5 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; SA-320 B8, CL1; VITON; SA-283 C46400 OR C37700 (SEE NOTE 4)	E11003 Rev 8	A-1	A
											P11	(	ORIGINAL	
							UNLESS OTHERWISE SI INTERPRET PER THE FOLLOWING TO STATION STATES 1. ALL DIMENSIONS AR 3. REMOVE ALL BURNS 0.15 MAX 4. MACHINED SURFACE 5. DO NOT SCALE DRAIN THIRD ANGLE P	ASME Y14.5-2009 LERANCES APPLY: 005' - ANGLES" ±0.5' E INCHES. AND SHARP EDGES TO BE 125 TO BE 125 TER. 	DRAWN BY         AJH         DATI           CHECKED BY         BL         DATI           CHECKED BY         BL         DATI           APPROVED BY         DRH         DATI           THIS DRAWING AND THE INFORMATION OR DATA CONTAINED HEREIN ARE CHICKOENICS, INC. MOI S NOT TO BE COPED, REPRODUCED, DUFLICHT PART WITHOUTH HE RIDOR WITHIN CONSET OF AVEC CONCEDING. UNIT SOON AS IT HAS SERVED THE RUPROSES FOR WHICH IT IS FURNISHED A SHOLD BE PROPINT'S VAFECUARED CAMARIES TO SUCCEASE TO AVECOME	05/23/2011           E         07/17/2023           E         07/20/2023           E         08/04/2023           I: 00000400 NR0MELTAN' TO ADME 000 NR050000 TO MENE IN WHILE ON IN NC. THE ONAMING SHOLL DE RETURNED AS NM WHILE IN THE OWNER SHOLL DE RETURNED AS	rifle: SCOPE OF REGISTRATION - CRYOGENIC GLOBE VALVES P/N: SEE TABLE CALE:N/A Project No.: E220040 B	CRYO	<b>GENICS</b> <b>GENICS</b> <b>PWI3 DIVER</b> company RN-1060/1080 EET 4 OF 8 REV. M	_
		4			3		¥		OR A JOB. THIS RESTRICTION SHALL NOT APPLY TO INFORMATION OR D	2			]	_

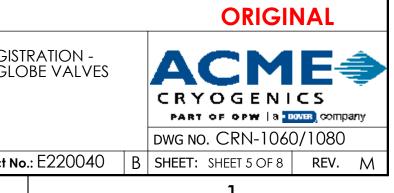
VPRESSME         ACTUAL WALL THEORES         CMD CONNECTION         ASST AND         AST         ACTUAL WALL THEORES         CMD CONNECTION         ASST AND         CALL AND         REF CALCPROME NO.           1996 @ 150 °F         -425 °F         Ext Tuber 0.049/0.033         NP5 1/2 3WE         54-31 (1504, 54-47 2 316/316); S4-21 27 7346/324; S4-22 74/316/316);         11003 Rev 8         A-2           516 @ 150 °F         -425 °F         Ext Tuber 0.049/0.033 Valve body: 0.188/014         NP5 1/2 3WE         54-31 (1504, 54-327 316/316);         11003 Rev 8         A-2           516 @ 150 °F         -425 °F         Ext Tuber 0.049/0.033 Valve body: 0.188/014         NP5 1/2 BWE         54-31 (1504, 54-327 316/316);         11003 Rev 8         A-2           516 @ 150 °F         -425 °F         Ext Tuber 0.083/0.033 Valve body: 0.18/014         NP5 1/2 BWE         54-31 (1764, 54-327 316/316);         11003 Rev 8         A-2           516 @ 150 °F         -425 °F         Ext Tuber 0.083/0.033 Valve body: 0.19/0.155         NP5 1/2 BWE         54-31 (1764, 54-323 12 P 304/304);         54-31 (1764, 54-32 12 P 304/304);         54-32 13 P 304/3	TEMPERATURE         MDMT         VS MIN REQUIRED         & SIZE RANGE         ASME / ASTM MATERIAL SPECIFICATION         CALCUL           VSIG @         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, CL.1         E11003           VSIG @         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-351 CF8M; SA-479 316/316L; VITON; SA-320 B8, CL.1         E11003           VSIG @         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, CL.1         E11003           VSIG @         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;         E11003	ATION     REF CALC FIGURE NO.       5 Rev 8     A-2       6 Rev 8     A-2
SIG @       150 T       -425 T       Ext Tube: 0.049/0.033 Value body: 0.18/0.14       NP5 J/2 SWE SVE SVE SVE SVE SVE SVE SVE SVE SVE SVE	SiG @       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, CL.1       E11003         'SIG @       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; SA-213 TP 316/316L; SA-182 F316/316L; SA-351 CF8M; SA-479 316/316L;       E11003         'SIG @       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-351 CF8M; SA-479 316/316L; VITON; SA-320 B8, CL.1       E11003         'SIG @       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;       E11003	Rev 8 A-2
SIG @       150 7       -425 7       Ext Tube: 0.049/0.033 Walve body: 0.188/0.14       NPS 3/4 SWE       SA-331 CFM: SA-79 316/3161; SA-213 TP 316/3161; SA-82 716/3161; SA-213 TP 304/3041; SA-82 736/3042; SA-213 TP 304/3042; SA-82 730/3042; SA-213 TP 304/3042; SA-82 730/3042; SA-739 304/3042; SA-739 304/30	'SIG @       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, CL.1       E11003         'SIG @       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-351 CF8M; SA-479 316/316L; SA-351 CF8M; SA-479 316/316L;       E11003	
SIG @       150 °F       -425 °F       LSH Tube! 0.083/0.033 Valve body: 0.188/0.14       NPS 1 SWE       SA-213 °P 316/316U; SA-182 °P316/316U; VTON; SA-320 85, CL1       E11003 Rev 8       A-2         SIG @       150 °F       -425 °F       Est Tube! 0.083/0.033 Valve body: 0.19/0.155       NPS 1/2 BWE       SA-331 CF3; SA-312 TP 304/304U; SA-213 TP 304/304U; SA-182 P304/304U; SA-213 TP 304/304U; SA-182 P304/304U; SA-233 C6400 OR C37700 (SE NOTE 4)       E11003 Rev 8       A-1         SIG @       150 °F       -425 °F       Est Tube! 0.083/0.033 Valve body: 0.19/0.155       NPS 1/2 BWE       SA-351 CF3; SA-312 TP 304/304U; SA-233 C6400 OR C37700 (SE NOTE 4)       E11003 Rev 8       A-1         SIG @       150 °F       -425 °F       Est Tube! 0.083/0.033 Valve body: 0.19/0.156       NPS 3/4 BWE       SA-351 CF3; SA-312 TP 304/304U; SA-273 TP 304/304U; SA-182 P304/304U; SA-273 TP 304/304U; SA-182 P304/304U; SA-273 TP 304/304U; SA-182 P304/304U; SA-273 SC 4400 OR C37700 (SE NOTE 4)       E11003 Rev 8       A-1         Maxwell       NPS 3/4 BWE       SA-351 CF3; SA-312 TP 304/304U; SA-273 SC 4400 OR C37700 (SE NOTE 4)       E11003 Rev 8       A-1         Maxwell       NPS 3/4 BWE       SA-351 CF3; SA-312 TP 304/304U; SA-473 SC 4400 OR C37700 (SE NOTE 4)       E11003 Rev 8       A-1         Maxwell       NPS 3/4 BWE       SA-320 ES, CL1 // TON; SA-233 CC 4400 OR C37700 (SE NOTE 4)       E11003 Rev 8       A-1         Maxwell       NPS 3/4 BWE <td>SIG @ 150 °F -425 °F Valve body: 0.188/0.14 NPS 1 SWE SA-213 TP 316/316L; SA-182 F316/316L; E11003</td> <td>Rev 8 A-2</td>	SIG @ 150 °F -425 °F Valve body: 0.188/0.14 NPS 1 SWE SA-213 TP 316/316L; SA-182 F316/316L; E11003	Rev 8 A-2
SIG @       150 * F       -425 * F       Ext Tube: 0.083/0.033 Valve body: 0.19/0.155       NP5 1/2 BWE       SA-213 TP 304/304L; SA-320 B8, CL; VITON; SA-283 C46400 OR C37700 (SEE NOTE 4)       E11003 Rev 8       A-1         SIG @       150 * F       -425 * F       Ext Tube: 0.083/0.033 Valve body: 0.19/0.155       NP5 1/2 BWE       SA-331 CF3; SA-312 TP 304/304L; SA-283 C46400 OR C37700 (SEE NOTE 4)       E11003 Rev 8       A-1         SIG @       150 * F       -425 * F       Ext Tube: 0.083/0.033 Valve body: 0.19/0.156       NP5 3/4 BWE       SA-331 CF3; SA-312 TP 304/304L; SA-283 C46400 OR C37700 (SEE NOTE 4)       E11003 Rev 8       A-1         SIG @       150 * F       -425 * F       Ext Tube: 0.083/0.033 Valve body: 0.19/0.156       NP5 3/4 BWE       SA-351 CF3; SA-312 TP 304/304L; SA-479 304/304L; SA-320 B8, CL; VITON; SA-283 C46400 OR C37700 (SEE NOTE 4)       E11003 Rev 8       A-1         MILLINGTONETING       MILLINGTONETING Valve body: 0.19/0.156       NP5 3/4 BWE       SA-351 CF3; SA-312 TP 304/304L; SA-479 304/304L; SA-320 B8, CL; VITON; SA-283 C46400 OR C37700 (SEE NOTE 4)       E11003 Rev 8       A-1         MILLINGTONETING       MILLINGTONETING Valve body: 0.19/0.156       NP5 3/4 BWE       SA-233 C46400 OR C37700 (SEE NOTE 4)       E11003 Rev 8       A-1         MILLINGTONETING Valve body: 0.19/0.156       NP5 3/4 BWE       SCOPE OF REGISTRATION- CRYOCEENIC GLOBE VALVES       SCOPE OF REGISTRATION- CRYOCEENIC GLOBE VALVES       SCOPE OF R		
SIG @       150 *F       -425 *F       Ext Tube: 0.083/0.033 Valve body: 0.19/0.156       NPS 3/4 BWE       SA-213 TP 304/304L; SA-182 F304/304L; SA-479 304/304L; SA-320 BB, CLI; VITON; SA-283 C46400 OR C37700 (SEE NOTE 4)       E11003 Rev 8       A-1         SIG @       150 *F       -425 *F       Ext Tube: 0.083/0.033 Valve body: 0.19/0.156       NPS 3/4 BWE       SA-213 TP 304/304L; SA-320 BB, CLI; VITON; SA-283 C46400 OR C37700 (SEE NOTE 4)       E11003 Rev 8       A-1         MICH OFFICIAL CONSTRUCTION OF CONSTRUCTI	SIG @ 150 °F -425 °F Ext Tube: 0.083/0.033 NPS 1/2 BWE SA-213 TP 304/304L; SA-182 F304/304L; Valve body: 0.19/0.155 NPS 1/2 BWE SA-479 304/304L; SA-320 B8, CL1; VITON; E11003	Rev 8 A-1
UNLESS OTHERWISE SPECIFIED         INTERPRET PER ASME V14.5-2009         1. THE FOLLOWING TOLERANCES APPLY: FRACTIONS: 1: 1/32" ANGLES 10.5"         2. ALL DIMENSIONS ARE INCHES.         3. REVIEW ALL BURSS AND SHARP BEGGES OLISMAX         4. MACHINED SURPACE TO BE 125 MINCHES (S)         5. DO NOT SCALE DRAWING.         THIRD ANGLE PROJECTION         THIRD ANGLE PROJECTION         THIRD ANGLE PROJECTION         THIRD ANGLE PROJECTION         CHECK ID BY         DR.H       DATE         0.01075 CALL DRAWING.         THIRD ANGLE PROJECTION         POWER WITTEND CONSENT OF AD CONSENT OF ADDE EXEMPTION TO CONSENT OF ADDE CON	SIG @         150 °F         -425 °F         Ext Tube: 0.083/0.033 Valve body: 0.19/0.156         NPS 3/4 BWE         SA-213 TP 304/304L; SA-182 F304/304L; SA-479 304/304L; SA-320 B8, CL1; VITON;         E11003	Rev 8 A-1
INTERPRET PER ASME Y14.5-2009         INTERPRET PER ASME Y14.5-2009         1. THE FOLLOWING TOLERANCES APPLY: MICH TOWS TOLE APPROVED BY DRH       DATE 07/17/20/2023       OS/23/2011 DATE 07/17/20/2023       SCOPE OF REGISTRATION - CRYOGENIC GLOBE VALVES         4. MACHINED SURFACE TO BE 125 MICH TOWS TO TO TO COMPT APPLY SCORE TO THE COMPANY AND TO THE COMPTONE TO THE C		ORIGINAL
5. DO NOT SCALE DRAWING. DOWN TO BE CORE DRAWING AND THE NORMATION OF DATA CONTAINED HEREIN ARE CONSIDERED PROPERTIANY TO ACHE. THISD BANKING AND THE NORMATION OF DATA CONTAINED HEREIN ARE CONSIDERED PROPERTIANY TO ACHE. SOUND IN THIS DRAWING AND THE REFORMED A	INTERPRET PER ASME Y14.5-2009     DMR     05/23/2011       1. THE FOLLOWING TOLERANCES APPLY: Y.X. TOLT XXX, 100 XXXX, 100 XXX, 100 XXX, 100 XXX, 100 XXX, 100 XXX, 100 XXX, 100 XXX	YOGENICS
	5. DO NOT SCALE DRAWING. CONTAINED HEREIN ARE CONSIDERED PROPRETARY TO ACHE THISD RANGING AND THE INFORMATION OR DATA CONTAINED HEREIN ARE CONSIDERED PROPRETARY TO ACHE CONCERNING, INC. WIG SON TO BE COPERED REPROZUED, DUPLICATE OR DRIVER IN WHOLE OR IN CONCERNING, INC. WIG SON TO BE COPERED REPROZUED, DUPLICATE OR OR RESULTANT OF ACHE CONCERNING, INC. WIG SON TO BE COPERED REPROZUED, DUPLICATE OR OR RESULTANT OF ACHE CONCERNING, INC. WIG SON TO BE COPERED REPROZUED, DUPLICATE OR OR RESULTANT OF ACHE CONCERNING, INC. WIG SON TO BE COPERED REPROZUED, DUPLICATE OR OR RESULTANT OF ACHE CONCERNING, INC. WIG SON TO BE COPERED REPROZUED, DUPLICATE OR OR RESULTANT OF ACHE DIVIDED REPROZUED REPROZUED, DUPLICATE OR REPORT OF ACHE	
	A AT WITHOUT THE REGRE WRITE'S CONSET OF ADDE CONCENSION OF ADDE CONCENSION OF THE RECEIPTING AND A THE ADDE ADDE ADDE ADDE ADDE ADDE ADDE AD	

		PRIMARY PRESSURE	ASME / ANSI	SIZE OR	DESK	GN PRESS	URE		ACTUAL WALL THICKNESS	END CONNECTION		REF	
PART NO.	PRODUCT DESCRIPTION	RETAINING COMPONENT	-		@ MA)	X TEMPER	ATURE	MDMT	VS MIN REQUIRED	& SIZE RANGE	ASME / ASTM MATERIAL SPECIFICATION	CALCULATION	REF CALC FIGURE NO.
81-2542-02634 81-2542-02640 81-2542-02644 88-2542-02914 88-2542-02920 88-2542-03685 78-2542-03685 78-2542-03695 78-2542-03695 78-2542-03380 78-2542-03380 78-2542-03381 78-2542-03545 78-2542-03555 78-2542-03555 78-2542-03220 78-2542-03220	V-SERIES (CVI) STRAIGHT-PATTERN GLOBE VALVE	BODY; STUBS; EXTENSION TUBE; FLANGE; BONNET; GASKET; BOLTS		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; SA-320 B8, CL1; VITON; SA-283 C46400 OR C37700 (SEE NOTE 4)	E11003 Rev 8	A-1
81-2542-02671 81-2542-02679 81-2542-02683 88-2542-02951 88-2542-02955 88-2542-02958 78-2542-03705 78-2542-03705 78-2542-03715 78-2542-03383 78-2542-03384 78-2542-03385 78-2542-03575 78-2542-03575 78-2542-03575 78-2542-03250 78-2542-03258 78-2542-03258 78-2542-03258	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; SA-320 B8, CL1; VITON; SA-283 C46400 OR C37700 (SEE NOTE 4)	E11003 Rev 8	A-1

	SHOULD BE PROPERLY SAFEC	E PURPOSES FOR WHICH IT IS FL SUARDED AGAINST DISCLOSURE IN SHALL NOT APPLY TO INFORM	scale:N/A	Project		
THIRD ANGLE PROJECTION	CRYOGENICS, INC. AND IS N	ORATION OR DATA CONTAINED DT TO BE COPIED, REPRODUCED, VRITTEN CONSENT OF ACME CRY	P/N: SEE T/	ABLE		
MICR-INCHES OR BETTER. 5. DO NOT SCALE DRAWING.	APPROVED BY	DRH	DATE	08/04/2023		
3. REMOVE ALL BURRS AND SHARP EDGES .015 MAX 4. MACHINED SURFACE TO BE 125		BL		07/20/2023		
2. ALL DIMENSIONS ARE INCHES.	CHECKED BY		DATE			
<ol> <li>THE FOLLOWING TOLERANCES APPLY: .XX: ±.01" .XXX: ±.005" FRACTIONS: ± 1/32" ANGLES" ±0.5°</li> </ol>	DRAWN BY	AJH	DATE	07/17/2023	SCOPE C CRYOGE	
UNLESS OTHERWISE SPECIFIED INTERPRET PER ASME Y14.5-2009	DESIGN BY	DMR	DATE	05/23/2011	Title:	
LINI FCC OTHERMICE OPECIFIED	DECICIL DV		DATE		THA	

В

А



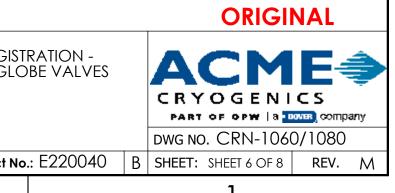
Α

	•			<u> </u>						—			
		PRIMARY PRESSURE	ASME / ANSI	SIZE OR		IN PRES			ACTUAL WALL THICKNESS	END CONNECTION		REF	
PART NO.	PRODUCT DESCRIPTION	RETAINING COMPONENT	DESIGN STANDARD	SIZE RANGE	@ MAX	TEMPE	RATURE	MDMT	V5 MIN REQUIRED	& SIZE RANGE	ASME / ASTM MATERIAL SPECIFICATION	CALCULATION	REF CALC FIGURE NO.
81-2542-02701 81-2542-02710 81-2542-02714 88-2542-02964 88-2542-02967 88-2542-02970 78-2542-03725 78-2542-03735 78-2542-03735 78-2542-03387 78-2542-03388 78-2542-03389 78-2542-03585 78-2542-03595 78-2542-03595 78-2542-03292 81-2542-03292 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; SA-320 B8, CL1; VITON; SA-283 C46400 OR C37700 (SEE NOTE 4)	E11003 Rev 8	A-1
81-2542-02729 81-2542-02730 81-2542-02730 81-2542-02731 81-2542-02732 88-2542-02973 88-2542-02976 88-2542-02979 88-2542-02982 78-2542-03740 78-2542-03740 78-2542-03755 78-2542-03755 78-2542-0390 78-2542-03991 78-2542-03392 78-2542-03393 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; SA-320 B8, CL1; VITON; SA-283 C46400 OR C37700 (SEE NOTE 4)	E11003 Rev 8	A-1

			1	2					
	Social As IT HAS SERVED THE PURPOSES FOR WHICH IT IS FURNISHED AND WHILE IN THE POSSESSION OF THE RECIPIENT SHOLD BE PROPERLY SHEADLABERS CAMARIST DELCOLORY CARES TO MOVIE EVENT PHYLOPICSE WHO REQUEST FOR WHICH OR A.DO. THIS RESTRICTION SHALL NOT APPLY TO INFORMATION OR DATA CONTAINED HEREIN WHICH IS AVAILABLE IT THE PUBLIC REPREALLY.								
	CRYOGENICS, INC. AND IS PART WITHOUT THE PRIOR	FORATION OR DATA CONTAINED NOT TO BE COPIED, REPRODUCED WRITTEN CONSENT OF ACME CR	1	SEE T.	ABLE				
5. DO NOT SCALE DRAWING.		DRH		00/04/2023					
<ol> <li>MACHINED SURFACE TO BE 125 MICR-INCHES OR BETTER.</li> </ol>	APPROVED BY	DRH	DATE	08/04/2023	1				
3. REMOVE ALL BURRS AND SHARP EDGES .015 MAX	CHECKED BY	BL	DATE	07/20/2023					
2. ALL DIMENSIONS ARE INCHES.			DATE			IUGL			
<ol> <li>THE FOLLOWING TOLERANCES APPLY: .XX: ±.01" .XXX: ±.005" FRACTIONS: ± 1/32" ANGLES" ±0.5*</li> </ol>	DRAWN BY	AJH	DATE	07/17/2023			of Regi NIC GI		
INTERPRET PER ASME Y14.5-2009		DMR		05/23/2011					
UNLESS OTHERWISE SPECIFIED	DESIGN BY		DATE		Title:				

В

Α



Α

		•			<u> </u>						—			•	٦
			PRIMARY PRESSURE	ASME / ANSI	SIZE OR		GN PRE			ACTUAL WALL THICKNESS	END CONNECTION		REF		
В	PART NO. 81-2542-02751 81-2542-02752 81-2542-02753 81-2542-02754 88-2542-02985 88-2542-02988 88-2542-02994 78-2542-03760 78-2542-03765 78-2542-03775 78-2542-03794 78-2542-03395 78-2542-03395 78-2542-03397 78-2542-03397 78-2542-03620 78-2542-03635	V-SERIES (CVI) STRAIGHT-PATTERN GLOBE VALVE		ASME B31.3 ASME B31.12 ASME B16.34	NPS 4			• 150 °F		Ext Tube: 0.188/0.088 Valve body: 0.375/0.314	& SIZE RANGE	ASME / ASTM MATERIAL SPECIFICATION SA-351 CF3; SA-312 TP 304/304L; SA-213 TP 304/304L; SA-182 F304/304L; SA-479 304/304L; SA-320 B8, CL1; VITON; SA-283 C46400 OR C37700 (SEE NOTE 4)	E11003 Rev 8	A-1	В
	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 @	9 150 °F	-425 <b>*</b> 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, CL.1	E11003 Rev 8	A-1	
	81-2542-02609 88-2542-02609 78-2542-02889 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 @	9 150 °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, CL.1	E11003 Rev 8	A-1	
	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 @	9 150 °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, CL.1	E11003 Rev 8	A-1	
	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 <b>*</b> 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, CL.1	E11003 Rev 8	A-1	
А	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 @	9 150 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, CL.1	E11003 Rev 8	A-1	A
													(	ORIGINAL	
							1. 1 i 2. A 3. R .0 4. M 5. D	THE FOLLOWING TO XX: ±.01" .XXX: ± FRACTIONS: ± 1/32 LL DIMENSIONS AF	R ASME Y14.5-2009 OLERANCES APPLY: 2" ANGLES" ±0.5" RE INCHES. 3 AND SHARP EDGES E TO BE 125 ETTER. WING.	CHECKED BY BL DATE APPROVED BY DRH DATE THIS DRAWING AND THE INFORMITON OR DATA CONTAINED HEREIN ARE CRYOGENICS, INC. AND IS NOT TO SCOPED, BERBOOCHD, DURLATE PART WITHOUT THE PRIOR WRITTER LOOKENT OF ACHE CRYOGENICS, D	05/23/2011     E     07/17/2023     E     07/20/2023     E     08/04/2023     E     08/04/2023     E     08/04/2023     E     090 обысовот отнен в иченос ок в     Nac. тне соминая будол в ективнее ла	Title: SCOPE OF REGISTRATION - CRYOGENIC GLOBE VALVES P/N: SEE TABLE CALE:N/A Project No.: E220040 E		GENICS OPW 1 a DOVER company RN-1060/1080	-
		4			3						2			1	

UNLESS OTHERWISE SPECIFIED INTERPRET PER ASME Y14.5-2009	DESIGN BY	DMR	DATE	05/23/2011		
1. THE FOLLOWING TOLERANCES APPLY: .XX: ±.01" .XXX: ±.005" FRACTIONS: ± 1/32" ANGLES" ±0.5*	DRAWN BY	۹JH	DATE	07/17/2023	SCOPE C	-
2. ALL DIMENSIONS ARE INCHES.	CHECKED BY		DATE			
3. REMOVE ALL BURRS AND SHARP EDGES .015 MAX	E	3L	DATE	07/20/2023		
4. MACHINED SURFACE TO BE 125 MICR-INCHES OR BETTER.	APPROVED BY	ORH	DATE	08/04/2023	1	
5. DO NOT SCALE DRAWING.				00,01,2020		
THIRD ANGLE PROJECTION	CRYOGENICS, INC. AND IS NOT T PART WITHOUT THE PRIOR WRIT	TO BE COPIED, REPRODUCE TTEN CONSENT OF ACME C	D, DUPLICATED ( RYOGENICS, INC.	INSIDERED PROPRIETARY TO ACME OR DISCLOSED TO OTHER IN WHOLE OR IN THE DRAWING SHOULD BE RETURNED AS WHILE IN THE POSSESSION OF THE RECIPIENT	p/n: SEE T/	ABLE
	SHOULD BE PROPERLY SAFEGUAR	RDED AGAINST DISCLOSUR	E TO ANYONE EX	WHILE IN THE POSSESSION OF THE RECIPIENT CEPT EMPLOYEES WHO REQUIRE IT FOR WORK A CONTAINED HEREIN WHICH IS AVAILABLE TO	scale:N/A	Project

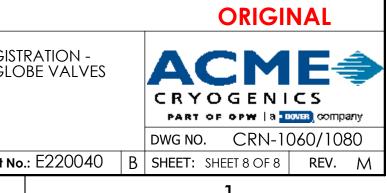
	4			3						2		-	
PART NO.	PRODUCT DESCRIPTION	PRIMARY PRESSURE RETAINING COMPONENT	ASME / ANSI DESIGN STANDARD	SIZE OR SIZE RANGE		GN PRESS X TEMPER		MDMT	ACTUAL WALL THICKNESS VS MIN REQUIRED	END CONNECTION & SIZE RANGE	ASME / ASTM MATERIAL SPECIFICATION	REF CALCULATION	REF CALC FIGURE NO.
CV050PHHYVPxxxx 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		PSIG @		-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 8	A-5
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 8	A-5
CV150PHHYVPxxxx CV150PAxxYVPxxxx	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 8	A-5
CV200PHHYVPxxxx CV200PAxxYVPxxxx	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 8	A-5
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 8	A-5
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 8	A-5
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 8	A-5
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 8	A-5
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 8	A-6
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 8	A-6
YV200PHHYVPxxx YV200PAxxVPxxxx	MODEL CV (Acme) Y-PATTERN GLOBE VALVE W/ RISER	BODY; STUBS; EXTENSION TUBE; FLANGE; BONNET; GASKET; BOLTS		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 8	A-6

UNLESS OTHERWISE SPECIFIED	DESIGN BY		DATE		Title:	
INTERPRET PER ASME Y14.5-2009		DMR		05/23/2011		
1. THE FOLLOWING TOLERANCES APPLY: .XX: ±.01" .XXX: ±.005" FRACTIONS: ± 1/32" ANGLES" ±0.5*	DRAWN BY	AJH	DATE	07/17/2023	SCOPE C	
2. ALL DIMENSIONS ARE INCHES.	CHECKED BY		DATE			
3. REMOVE ALL BURRS AND SHARP EDGES .015 MAX	CHECKED BY	BL	DATE	07/20/2023		
<ol> <li>MACHINED SURFACE TO BE 125 MICR-INCHES OR BETTER.</li> </ol>	APPROVED BY	DRH	DATE	08/04/2023		
5. DO NOT SCALE DRAWING.				00,01,2020		
	CRYOGENICS, INC. AND IS N PART WITHOUT THE PRIOR V	FORATION OR DATA CONTAINED OT TO BE COPIED, REPRODUCED WRITTEN CONSENT OF ACME CRY E PURPOSES FOR WHICH IT IS FU	p/n: SEE T	ABLE		
	SHOULD BE PROPERLY SAFE	GUARDED AGAINST DISCLOSURE	TO ANYONE EX	CEPT EMPLOYEES WHO REQUIRE IT FOR WORK A CONTAINED HEREIN WHICH IS AVAILABLE TO	scale:N/A	Project
				2		

В

А

3



Α