


TECHNICAL DATA


NOMINAL CRACK PRESSURE: .15, 1, 3, 5* & 8 PSIG
 MAX. OPERATING PRESSURE: 1000 PSIG @ UP TO 350° F. **
 LEAKAGE IN CHECK DIRECTION (AMBIENT):
 < 20 cc /MIN @ 25 PSI, NITROGEN
 EXTERNAL LEAKAGE: ZERO
 LUBRICANT: KRYTOX 205 ON COPPER CRUSH WASHER
 TEMPERATURE RANGE: -452° F TO 350° F.
 SUITABLE FOR LIQUID CRYOGENIC SERVICE

HOW TO ORDER

SERIES
 CV - CHECK VALVE

PIPE SIZE (NPT)
 253 - 1/4" NPT
 373 - 3/8" NPT
 503 - 1/2" NPT
 753 - 3/4" NPT
 1003 - 1" NPT
 1253 - 1-1/4" NPT
 1503 - 1-1/2" NPT
 2003 - 2" NPT **

NOMINAL SET PRESSURE 
 .15 - (0.1 - 0.4 PSIG)
 1 - (0.5 - 1 PSIG)
 1PB - (0.5 - 1 PSIG, 503 & 753 ONLY)
 3 - (2 - 4 PSIG)
 * 5 - (4 - 6 PSIG)
 8 - (6 - 10 PSIG)
 * 5 PSI SPRING ONLY AVAILABLE
 ON 1/2" SIZE, CV-503
 ALL SPRINGS 302SS, ASTM A313
 EXCEPT 1PB SPRING (PHOS. BRZ)

SEAL MATERIAL 
 T - PTFE, ASTM D1710

MATERIAL CODE
 B - BRASS, ASTM B16
 SS - 316 STAINLESS STEEL, ASTM A479

****2" SIZE BRASS (CV-2003B) ONLY:**
 MAWP 850 PSIG @ UP TO 350° F.

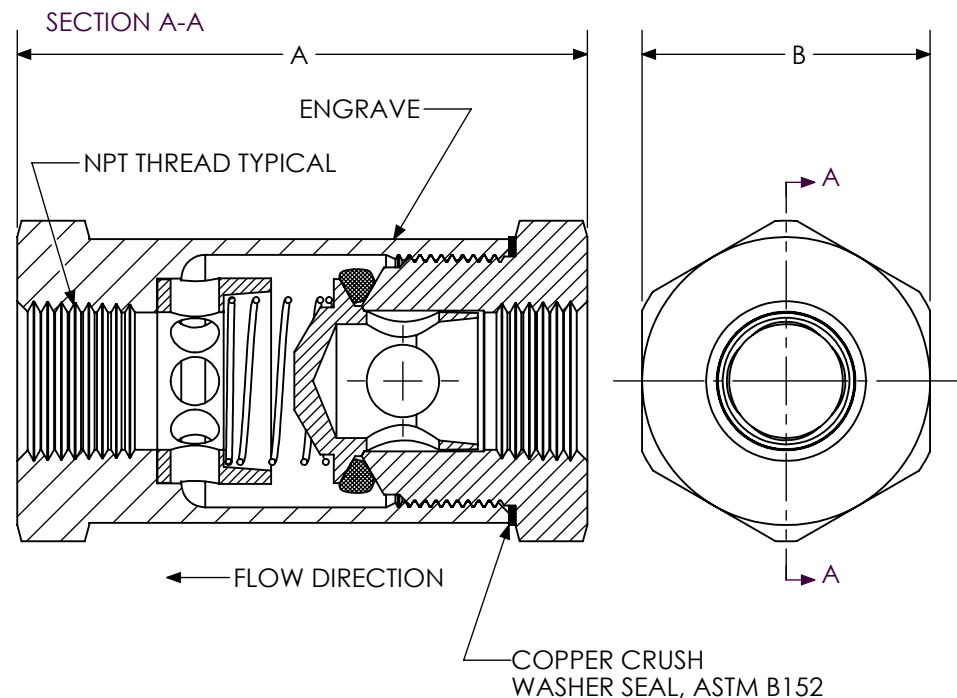
PIPE SIZE	THREAD	A (INCH)	B	Cv
253	1/4" - 18 NPT	2.25	1"	3.0
373	3/8" - 18 NPT	2.43	1-1/8"	3.9
503	1/2" - 14 NPT	2.93	1-1/2"	7.4
753	3/4" - 14 NPT	3.37	1-3/4"	11.4
1003	1" - 11-1/2 NPT	3.99	2"	14.2
1253	1-1/4" - 11-1/2 NPT	4.53	2-3/4"	26.8
1503	1-1/2" - 11-1/2 NPT	5.29	2-3/4"	26.8
2003	2" - 11-1/2 NPT	6.13	Ø 3-11/32"	51.0


NOTES:

- 1) CLEANED AND PACKAGED FOR OXYGEN SERVICE.
- 2) NPT THREADS CONFORM TO ANSI/ASME STANDARD B1.20.1

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REVISIONS			
REV.	DESCRIPTION	DCR #	DATE
A	CONVERTED TO ACAD	1163	9/16/2010
B	UPDATED WITH ADDITIONAL SIZES	2093	3/6/2013
C	UPDATED DRAWING	2192	6/21/2013
D	UPDATED TEMPERATURE RANGE	3508	2/6/2017
E	UPDATED DRAWING REMOVED 303 STAINLESS MATERIAL CODE DERATED 2" SIZE BRASS MAWP TO 850 PSIG	4829	10/21/2020
F	CHANGED PART NUMBER IDENTIFIED ASTM NUMBERS FOR MATERIAL	4832	10/23/2020
G	ADDED "1PB" SPRING INFORMATION	6181	5/28/2024



MATL: AS SPECIFIED						
TOLERANCE SCHEDULE UNLESS OTHERWISE SPECIFIED		TITLE: CRYOGENIC LIQUID SERVICE CHECK VALVE				
FRACTIONAL: ± 1/64" ANGLES: ± 1/2° XX ± .010 XXX ± .005 CONCENTRICITY: .005 T.I.R. FINISHED SURFACES: 63 Ra BREAK CORNERS/EDGES: .016 MAX		DWG NUMBER: CV-XX3X-T-X				
DRAWN BY: HH		DATE: 9/16/2010		SCALE: 1:1	SIZE: A	SHEET: 1 of 1

Printed Date: 5/28/2024