

# GLOBE VALVES

## TYPE 01420 - TOP - ENTRY - HEROSE VALVE

### CRYOGENIC - GLOBE VALVES, PN50

- Stainless steel body and topwork
- Live loaded gland packing
- Cleaned and degreased for oxygen service

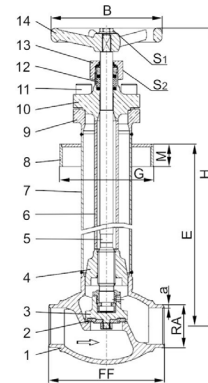
Part No. 01420.X.0781

Part No. 01420.X.5781 Globe/Check Valve

Butt weld connection for stainless steel pipes according to ASTM A312

Available options - on request only:

- Extension H and E according to customer specification



Materials		DIN EN	ASTM
1	Body	1.4308	A 351 CF8
2	Valve Seal	PTFE / Carbon filled (25%)	
3	Disc	1.4301	A 276 Grade 304
4	Guide Bush	CC493K	B 505 UNS C93200
5	Stem	1.4301	A 276 Grade 304
6	Elongation Tube	1.4541	A 213 TP 321
7	Elongation Tube	1.4541	A 213 TP 321
8	Cold Box Feature	1.4541	A 213 TP 321
9	Headpiece Flange	1.4301	A 276 Grade 304
10	Headpiece	1.4301	A 276 Grade 304
11	Bolts	1.4301/A2 A 194 B8	
12	Gland Packing	Graphite / PTFE	
13	Gland Nut	1.4305	A 276 Grade 303
14	Handwheel	Aluminum Alloy	

### APPLICATIONS:

- Approved for air gases, vapors and cryogenic liquefied gases including LNG
- Working temperature: -196°C / -321°F (77K) up to +120°C / +248°F (393K)

Type 01420 - Standard Design	Technical Data					
Nominal Size	DN	15	20	25	40	50
Dimension Code	.X.	1521	2026	2533	4048	5060
Face-to-face dimension	FF	85	100	115	130	155
Height	H	690	690	690	690	760
Handwheel-Ø	B	100	100	100	200	200
Outside pipe - Ø ASTM A312	RA	21.34	26.67	33.40	48.26	60.33
Wall Thickness pipe ASTM A312	a	Dimensions according to S10 or S40				
Length	E	540	540	540	540	610
Length	G	According to customer specification				
Length	M	According to customer specification				
Wrench size across flats	S1	10	10	10	13	13
Wrench size across flats	S2	30	30	30	36	36
Weight	ca. kg	3.0	3.5	4.0	8.5	11.5
Kvs-Value	m <sup>3</sup> /h	4.3	6.7	11.5	22.6	37.1
Cv-Value	gal/min	5.0	7.8	13.4	26.3	43.2

Standard marking according to Pressure Equipment Directive 2014/68/EU (PED). Dimensions in mm.



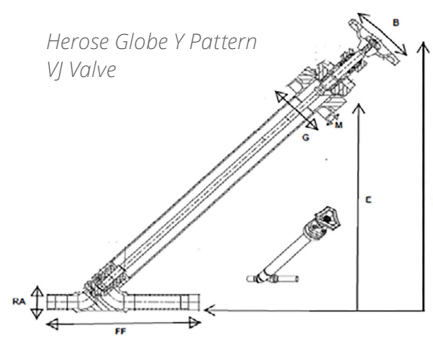
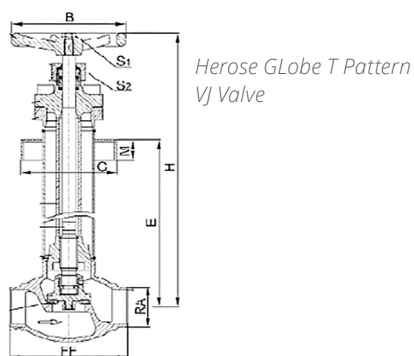
# GLOBE VALVES

## TYPE 01420 - TOP - ENTRY - HEROSE VALVE

### Herose Globe T & Y Pattern Valve Technical Data

Size/ Dimensional Code	B	E	G	H	M	S1	S2	FF	RA
1/2" 1521 T	100mm	540mm	* See Note	690mm	* See Note	10mm	30mm	85mm	21.34mm
1/2" 1521 Y	100mm	290±2mm	68mm	395±5mm	14mm	-	-	178±2mm	1/2"S5
1" 2533 T	100mm	540mm	* See Note	690mm	* See Note	10mm	30mm	115mm	33.40mm
1" 2533 Y	100mm	290±2mm	68mm	395±5mm	14mm	-	-	203±2mm	1"S5
1-1/2" 4048 T	200mm	540mm	* See Note	690mm	* See Note	13mm	36mm	130mm	48.26mm
1-1/2" 4048 Y	200mm	350±2mm	109mm	516±5mm	18.5mm	-	-	265±2mm	1-1/2"S5
2" 5060 T	200mm	610mm	* See Note	760mm	* See Note	13mm	36mm	155mm	60.33mm
2" 5060 Y	200mm	350±2mm	134.5mm	532±5mm	21.5mm	-	-	344±2mm	2"S5

NOTE: \*Dimensions are according to customer specifications.



### Vacuum Jacket Dimensions

Size	A	B	C	D	ØE	ØF	ØG
1/2" T	16-3/8"	3-15/16"	5-5/16"	6-1/8"	1/2" NPS	2" NPS	2-1/2" NPS
1/2" Y	21-1/16"	3-15/16"	6"	7"	1/2" NPS	2" NPS	3" NPS
1" T	16-5/16"	3-15/16"	6-1/2"	6-3/4"	1" NPS	-	3" NPS
1" Y	21-1/16"	3-15/16"	7"	8"	1" NPS	-	3" NPS
1-1/2" T	20-3/16"	7-7/8"	7-1/16"	9-1/4"	1-1/2" NPS	3-1/2" NPS	4" NPS
1-1/2" Y	25-5/8"	7-7/8"	9-7/16"	10-7/16"	1-1/2" NPS	3-1/2" NPS	5" NPS
2" T	26-11/16"	7-7/8"	8-1/16"	10"	2" NPS	3-1/2" NPS	5" NPS
2" Y	26-11/16"	7-7/8"	12-1/16"	13-9/16"	2" NPS	3-1/2" NPS	6" NPS

Globe Valves may be installed vertically and up to 45°. Exceeding 45° is not recommended, and may cause the valve to leak and fail. Working Temperature Range: -321°F to 248°F Maximum Allowable Working Pressure: 710 psig (Vacuum Jacketed) Mediums: Cryogenic gases, Argon, Oxygen, Nitrogen, Carbon Dioxide, and Methane. Valves are cleaned and degreased for oxygen service.

