Globe Valves

Type 01420 - Globe Valve

Top Entry Cryogenic-Globe Valves, PN50 (DN100=PN40)

Stainless steel body and topwork,
" live loaded " gland packing
" cleaned and degreased for oxygen service "

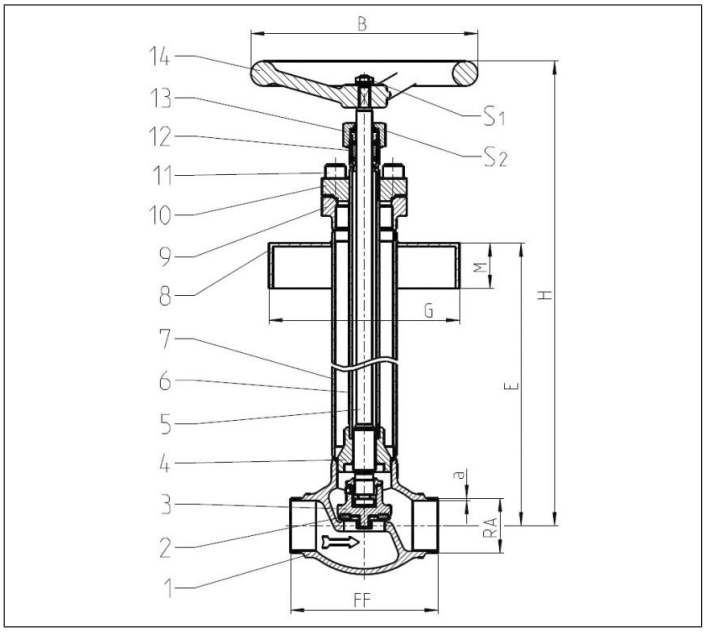


Part No. 01420.X.0*81
Butt weld connection for stainless steel pipes acc. to ISO 1127 or ASTM A312

Available options - on request only:
· Extension H and E acc. to customer specification
· Valve with check disc

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

Materials		DIN EN	ASTM
1	Body	1.4308	A 351 CF8
2	Valve seal up to DN50	PTFE / Carbon filled (25%)	
2a	Valve seal from DN65	PTFE	
3	Disc	1.4301	A 276 Grade 304
4	Guide bush	CW453K	B 103 UNS C52100
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	1.4301	A 276 Grade 304
9	Headpiece flange	1.4301	A 276 Grade 304
10	Headpiece	1.4301	A 276 Grade 304
11	Bolts	1.4301/A2	A 193 B8
12	Gland packing	Graphite / PTFE / MICA	
13	Gland nut	1.4404	A 276 Grade 316L
14	Handwheel	Aluminium alloy	



Type 01420 - Standard design		Technical data								
Nominal size	**DN**	**10**	**15**	**20**	**25**	**40**	**50**	**65**	**80**	**100**
Dimension code	.X.	1013	1521	2026	2533	4048	5060	6573	8088	0114
Face-to-face dimension	FF	70	85	100	115	130	155	205	245	280
Height	H	690	690	690	690	710	780	790	840	960
Handwheel-Ø	B	100	100	100	100	200	200	250	315	315
Outside pipe -Ø ASTM A312	RA	13.50	21.34	26.67	33.40	48.26	60.33	73.02	88.90	114.30
Wall thickness pipe ASTM A312	a	dimensions acc. to S10 or S40								
Length	A	540	540	540	540	540	610	610	640	750
Length	G	acc. to customer specification								
Length	M	acc. to customer specification								
Wrench size across flats	S_1	10	10	10	10	13	13	13	13	13
Wrench size across flats	S_2	27	27	27	27	32	32	41	41	41
Weight	ca. kg	4.0	4.0	4.8	5.1	9.1	11.5	19.6	26.9	37.4
Kvs-Value	m^3/h	1.6	4.3	6.7	11.5	22.6	37.1	71.1	104.0	168.0
Cv-Value	gal/min	1.9	5.0	7.8	13.4	26.3	43.2	82.9	121.3	196.0
Stroke	mm	11	12	12	12	15	19	23	25	30

Dimensions in mm.

Globe Valves

Type 01420 - Top-Entry-Valve T-Model

Cryogenic-Globe Valves, PN50

Stainless steel body and topwork,
" live loaded " gland packing
" cleaned and degreased for oxygen service "

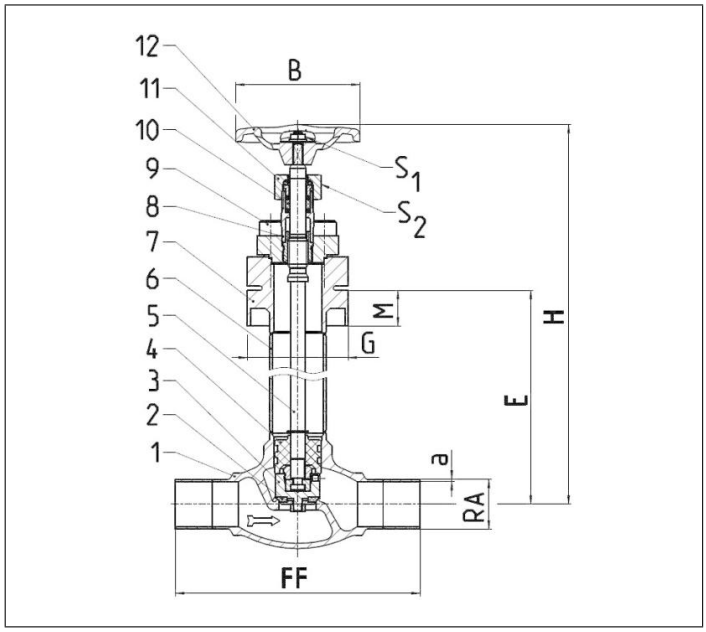
Part No. 01420.X.CD21 (DN15, DN25)
Part No. 01420.X.CD31 (DN40, DN50)

Available options - on request only:
· Extension H and E acc. to customer specification



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

Materials		DIN EN	ASTM
1	Body	1.4308	A 351 CF8
2	Valve seal	PCTFE	
3	Disc	1.4301	A 276 Grade 304
4	Guide bush	PTFE	
5	Stem	1.4301	A 276 Grade 304
6	Elongation tube	1.4306	A 312 Grade 304L
7	Headpiece flange	1.4301	A 276 Grade 304
8	Headpiece	1.4301	A 276 Grade 304
9	Bolts	1.4301	A 193 B8
10	Gland packing	Graphite / PTFE	
11	Gland nut	1.4305	A 276 Grade 303
12	Handwheel	Aluminium alloy	



CE

Type 01420 - T-Model	Technical data				
Nominal size	**DN**	**15**	**25**	**40**	**50**
Dimension code	.X.	1521	2533	4048	5060
Face-to-face dimension	FF	85	115	130	155
Height	H	401	402	498	519
Handwheel-Ø	B	100	100	200	200
Outside pipe -Ø ASTM A312	RA	21.34	33.70	48.26	60.33
Wall thickness pipe ASTM A312	a	1.6	1.6	1.6	1.6
Length	E	290	290	350	350
Length	G	68	68	109	134.5
Length	M	14	24	18.5	21.5
Wrench size across flats	S_1	10	10	13	13
Wrench size across flats	S_2	27	27	32	32
Weight	ca. kg	2.2	3.5	7.2	12.4
Kvs-Value	m^3/h	4.3	11.5	22.6	37.1
Cv-Value	gal/min	5.0	13.4	26.3	43.2

Dimensions in mm.

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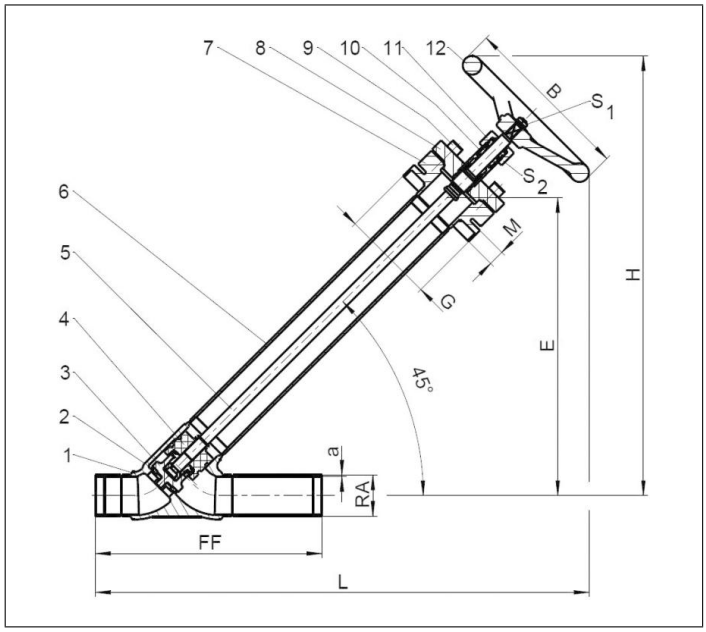
Part No. 01420.XYCD21 (DN15, DN25)
Part No. 01420.XYCD31 (DN40, DN50)

Available options - on request only:
· Extension H and E acc. to customer specification



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

Materials		DIN EN	ASTM
1	Body	1.4308	A 351 CF8
2	Valve seal	PCTFE	
3	Disc	1.4301	A 276 Grade 304
4	Guide bush	PTFE	
5	Stem	1.4301	A 276 Grade 304
6	Elongation tube	1.4301	A 276 Grade 304
7	Headpiece flange	1.4301	A 276 Grade 304
8	Headpiece	1.4301	A 276 Grade 304
9	Bolts	A2-70	B8
10	Gland packing	Graphite / PTFE	
11	Gland nut	1.4305	A 276 Grade 303
12	Handwheel	Aluminium alloy	



CE

Type 01420 - T-Model	Technical data				
Nominal size	**DN**	**15**	**25**	**40**	**50**
Dimension code	.X.	1521	2533	4048	5060
Face-to-face dimension	FF	178	203	265	344
Height	H	395	395	516	532
Handwheel-Ø	B	100	100	200	200
Outside pipe -Ø ASTM A312	RA	21.34	33.70	48.26	60.33
Wall thickness pipe ASTM A312	a	1.6	1.6	1.6	1.6
Length	E	290	290	350	350
Length	G	68	68	109	134.5
Length	M	14	24	18.5	21.5
Length	L	442	453	578	628
Wrench size across flats	S_1	10	10	13	13
Wrench size across flats	S_2	27	27	32	32
Weight	ca. kg	2.4	3.0	7.6	11.5
Kvs-Value	m^3/h	4.9	13.3	32.0	51.0
Cv-Value	gal/min	5.7	15.6	37.4	59.7

Dimensions in mm.