

CRYOGENIC GATE VALVE TYPE 01351 WELDED

Material stainless steel 1.4308
Pressure PN 50

TECHNICAL DESCRIPTION

Cryogenic shut-off and check valves, PN50
(for DN150=PN40)

- stainless steel body and cover,
- pre-stressed gland
- cleaned and degreased for oxygen operation

With stainless steel butt weld ends according to ISO 1127 and ASTM A312.

- Part No. 01351.X.000* valves
- Part No. 01351.X.500* check valves

With welded sockets for stainless steel pipes according to ISO 1127 and ASTM A312.

- Part No. 01351.X.0004 valves
- Part No. 01351.X.5004 check valves

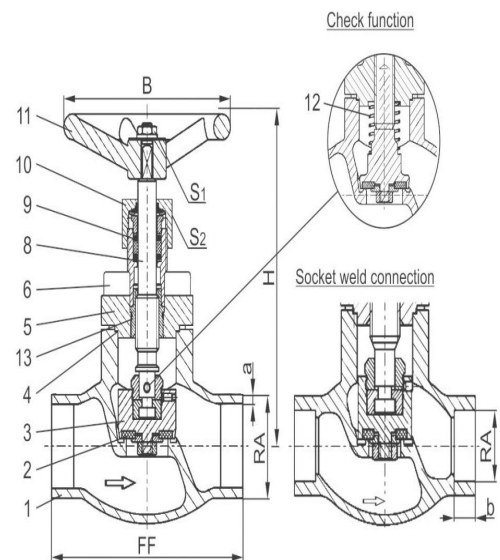
WORKING FLUID / MEDIUM

Approved for gases, vapors and liquefied cryogenic gases and LNG.

OPTIONS

- welded sleeves for stainless steel pipes according to ISO 1127 and ASTM A312 – length FF + 200mm
- regulating valve (with threaded connection)
- wall thickness of extension pipes

Dimensions: DN 10 - 150



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No.	Materials	DIN EN	ASTM
1	Body	1.4308	A 351 CF8
2	Saddle up to DN50	Teflon PTFE / graphite filler (25%)	
2a	DN65 saddle	Teflon PTFE	
3	Valve	1.4301	A276 type 304
4	Lid gasket	Teflon PTFE	
5	Upper part	1.4301 / 1.4308	A 276 type 304 / A 351 CF8
6	Bolts	1.4301/A2	A 194 B8
8	Spindle	1.4301	A276 type 304
9	Salnikov condensed.	graphite / Teflon PTFE	
10	Packing nut	1.4305	A 276 type 303
11	Flywheel	aluminum alloy	
12	Spring	1.4310	A 313 type 301
13	Bushing	CW452K	B159 UNS C51900

SPECIFICATION

Type 05418	cryogenic valve PN 50
Connection ends	flange DIN
Construction length	factory standard
Attaching the lid	flanged
Execution	straight
Joining	on flanges
Drive	independently
Working temp. [°C]	-196°C / -321°F
	up to +120°C / +248°F

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DN	Size code (X.)	Construction length (FF)	Height (H)	Pipe Ø ISO 1127 (RA)	Wall thickness ISO 1127 (a)	OD pipe Ø ASTM A312 (RA)	Wall thickness ASTM A312 (a)	Socket depth (b)	Flywheel Ø (B)	Hex size (S1)	Hex size (S2)	Weight (kg)	Kvs (m³/h)	Cv (gal/min)
10	1012	70	140	12.0	1.0	13.72	S10 or S40	6	100	7	30	1.0	1.6	1.9
15	1517	85	140	17.2	1.6	17.15	S10 or S40	10	100	7	30	1.25	3.8	4.4
15	1521	85	140	21.3	2.0	21.34	S10 or S40	10	100	7	30	1.3	4.3	5.0
20	2026	100	140	26.9	2.0	26.67	S10 or S40	13	100	7	30	1.7	6.7	7.8
25	2533	115	140	33.7	2.0	33.40	S10 or S40	13	100	7	30	2.0	11.5	13.4
32	3238	115	170	38.0	2.0	-	S10 or S40	-	125	10	36	2.8	14.0	16.2
40	4042	130	175	42.4	2.0	42.16	S10 or S40	13	125	10	36	4.2	20.6	23.9
40	4048	130	175	48.3	2.0	48.26	S10 or S40	13	125	10	36	4.2	22.6	26.3
50	5060	155	200	60.3	2.0	60.32	S10 or S40	16	125	10	36	6.7	37.1	43.2
65	657x	205	260	76.1	2.6	73.02	S10 or S40	16	200	10	36	10.7	71.1	82.7
80	8088	245	310	88.9	3.2	88.90	S10 or S40	16	250	10	36	16.0	104.0	120.9
100	0114	280	350	114.3	6.0	114.30	S10 or S40	20	315	12	41	22.0	170.0	195.2
150	0168	400	420	168.3	7.1	168.27	S10 or S40	20	360	15	41	54.1	350.0	401.8