

CRYOGENIC GATE VALVE TYPE 01311 WITH EXTENDED SPINDLE AND BRAZE COPPER ENDS

Material
Pressure

bronze CC491K
PN 50

TECHNICAL CHARACTERISTICS

CRYOGENIC GATE VALVE TYPE 01311, PN 50

- Flanged top;
- Bronze body and top;
- Prestressed gland packing;
- Degreased for oxygen service

Product no. 01311.X.0018 (H=270mm)

Product no. 01311X0028 (H=370mm)

Product No. 01311.X.5018 (H=270mm) with return function

Product No. 01311.X.5028 (H=370mm) with return function

Inlet and outlet with soldered copper pipe according to DIN EN 12449

ANNEX

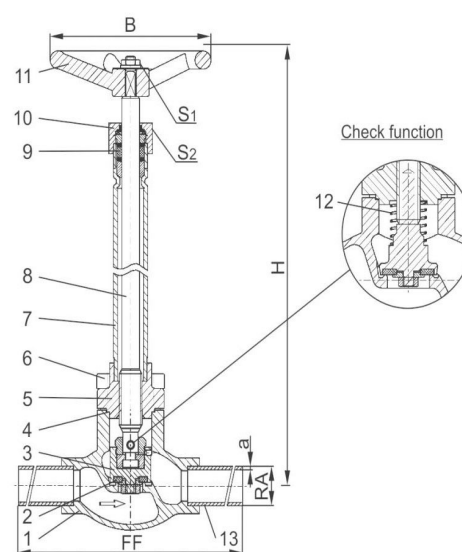
Approved for generator gases and cryogenic liquefied gases such as oxygen, nitrogen, krypton, carbon dioxide, argon, nitrous oxide, trifluoromethane, carbon dioxide, methane, ethane and ethylene.

Permissible operating temperatures: -196°C (77K) to +120°C

Non-standard versions available – only upon request:

- extended spindles with dimensions up to 900 mm
- version with throttling pin

Dimensions: DN 10 - 50



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No.	Materials	DIN,EN	ASTM
1	Housing	SS491K	B62 UNS C83600
2	Gasket	Teflon PTFE/ Elektrocarbon (25%)	
3	Bowling	brass CW612N	B283 UNS C37700
4	Lid seal	Teflon PTFE Foil	
5	Upper flange	bronze CC493K	B505 UNS C93200
6	Bolts upper part	stainless steel 1.4301/A2	A 194 B8
7	Extension tube	stainless steel 1.4541	A 213 TP 321
8	Spindle	1.4301	A276 Grade 304
9	Stuffing box	graphite / Teflon PTFE	
10	Oil seal	brass CW612N	B283 UNS C37700
11	Flywheel	Al - alloy	
12	Spring	CW452K	B103 UNS C51900
13	Copper pipe	copper CW024A	B 152

SPECIFICATION	
Type 01311	Cryogenic globe valve, PN 50
Connection ends	copper pipes according to DIN EN 12449
Construction length	factory standard
Attaching the lid	flanged
Execution	straight
Joining	butt weld
Drive	multi-turn
Working temp. [°C]	-196°C to +120°C
Recommended temp. [°C]	-60°C to +120°C

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DN	Size designation (.X.)	Construction length (FF)	Height (H)	Outer diameter of the pipe (RA)	Pipe wall thickness (a)	Flywheel diameter (In)	Key distance (S1)	Key distance (S2)	Weight (approx. kg)	Kvs coefficient (m ³ /h)	Cv coefficient (gal/m)
10	1012	360	270mm or 370mm	12.0	1.0	80	10	30	1.5	2.2	2.6
15	1515	385	270mm or 370mm	15.0	1.5	100	10	30	1.9	4.3	5.0
15	1518	385	270mm or 370mm	18.0	1.5	100	10	30	1.9	4.3	5.0
20	2022	385	270mm or 370mm	22.0	1.5	100	10	30	2.4	6.7	7.8
25	2528	415	270mm or 370mm	28.0	1.5	100	10	30	2.8	11.5	13.4
32	3235	415	270mm or 370mm	35.0	1.5	125	13	36	3.7	12.1	14.1
40	4042	420	270mm or 370mm	42.0	1.5	125	13	36	5.2	22.6	26.3
50	5054	460	270mm or 370mm	54.0	2.0	125	13	36	7.8	37.1	43.2