

Fire Safe Valves

Type 9116F - Gate Valve



Cryogenic-Gate Valves, PN50

"Fire safe" type test approval acc. to EN ISO 10497

Stainless steel body, side parts and flanged topwork,
wedge sealed,
"live loaded" gland packing
"cleaned and degreased for oxygen service"

Connections:

Butt weld connection for stainless steel pipes acc. to ISO 1127 or ASTM A312

Socket weld connection for stainless steel pipes acc. to ISO 1127 or ASTM A312



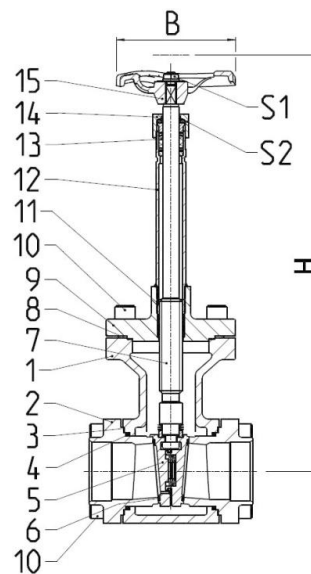
Applications:

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 Side part	1.4308	A 351 CF8
3 Valve seal	Graphite	
4 Profile ring	Graphite	
5 Wedge	1.4571	316Ti
6 Wedge seal	PTFE / Carbon filled (25%)	
7 Stem	1.4301	A 276 Grade 304
8 Bonnet gasket	Graphite	
9 Headpiece	1.4308	A 351 CF8
10 Bolts	A2	A 194 B8
11 Bush	CW452K	B 159 UNS C51900
12 Elongation tube	1.4541	A 213 TP 321
13 Gland packing	Graphite / PTFE	
14 Gland nut	1.4305	A 276 Grade 303
15 Handwheel	1.4409	A 351 CF3M

Standard marking acc. to Pressure Equipment Directive 2014/68/EU (PED).



Technical data - Standard design				
Nominal size [DN]	Height (H) [mm]	Handwheel-Ø (B) [mm]	Wrench size across flats (S ₁) [mm]	Wrench size across flats (S ₂) [mm]
50	411	125	13	32
65	421	150	13	32
80	440	150	13	32

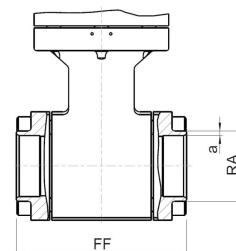
Dimensions in mm.

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Connection types



Butt weld connection acc. to

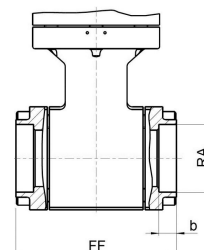
• ISO 1127

DN	Face-to-face dim. (FF) [mm]	Outside pipe-Ø ISO (RA) [mm]	Wall thickness pipe ISO (a) [mm]	Kvs-value [m³/h]	Cv-value [gal/min]	Weight [kg]	Part No.
50	146	60.3	2.0	150	174	9.2	9116F0603020.20
65	157	76.1	2.6	239	276	11.2	9116F0761026.20
80	163	88.9	3.2	308	356	16.4	9116F0889032.20

Butt weld connection acc. to

• ASTM A312

DN	Face-to-face dim. (FF) [mm]	Outside pipe-Ø ASTM (RA) [mm]	Wall thickness pipe ASTM (a) [mm]	Kvs-value [m³/h]	Cv-value [gal/min]	Weight [kg]	Part No.
50	146	60.33	2.77	150	174	9.2	9116F0603S10.20
50	146	60.33	3.91	150	174	9.2	9116F0603S40.20
65	157	73.03	3.04	239	276	11.2	9116F0730S10.20
65	157	73.03	5.16	239	276	11.2	9116F0730S40.20
80	163	88.90	3.04	308	356	16.4	9116F0889S10.20
80	163	88.90	5.49	308	356	16.4	9116F0889S40.20



Socket weld connection acc. to

• ISO 1127

• ASTM A312

DN	Face-to-face dim. (FF) [mm]	Socket depth (b) [mm]	Socket diameter (B) [mm]	Kvs-value [m³/h]	Cv-value [gal/min]	Weight [kg]	Part No.
50	146	16.0	61.1	150	174	9.2	9116F0603000.20
65	157	16.0	74.0	239	276	11.2	9116F0730000.20
65	157	16.0	77.0	239	276	11.2	9116F0761000.20
80	163	16.0	90.0	308	356	16.4	9116F0889000.20