

Check Valves

Type 05419 - Check Valve, DIN EN Flanges



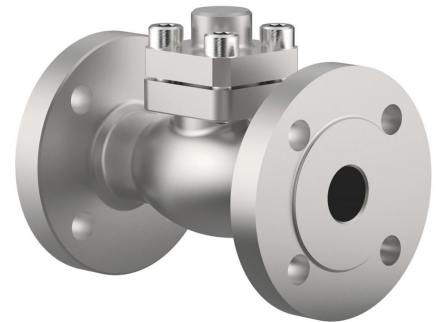
Cryogenic-Check Valves, PN40

Stainless steel body and cap
with spring, opening pressure ca. 0.1 bar
"cleaned and degreased for oxygen service"

Part No. 05419.X.0002

Flanged connection acc. to DIN EN 1092-1 PN40

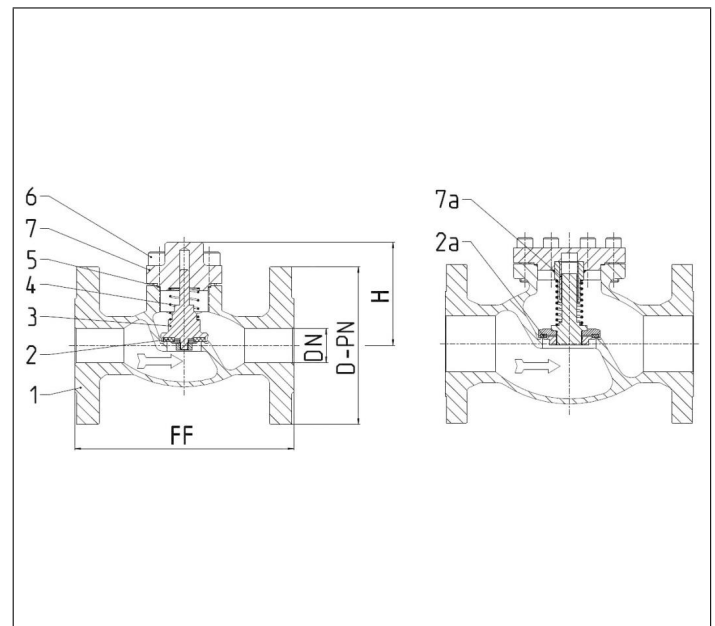
Check valves provide reliable backflow functionality when properly sized. Based on experience, the minimum operating range of the valve should be 50% for gases and 40% for liquids in relation to the total capacity of the valve. Lower flow rates can lead to unstable performance, excessive noise, and even component failure.



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 Spring	1.4571	A 313 Grade 316Ti
5 Bonnet gasket	PTFE	
6 Bolts	1.4301/A2	A 194 B8
7 Cap	1.4301	A 276 Grade 304
7a Bush from DN65	PTFE	



Type 05419 - Standard design	Technical data									
Nominal size	DN	15	20	25	40	50	65	80	100	150
Dimension code - Flange EN 1092-1 PN40	.X.	0150	0200	0250	0400	0500	0650	0800	1000	1500
Flange-Ø	D-PN	95	105	115	150	165	185	200	235	300
Face-to-face dimension	FF	140	150	160	200	230	290	310	350	550
Height	H	70	75	75	95	90	125	150	165	215
Weight	ca. kg	2.9	3.4	4.4	6.4	11.6	19.2	25.2	39.8	72.7
Kvs-Value	m ³ /h	4.3	6.7	11.5	22.6	37.1	71.1	104.0	170.0	350.0
Cv-Value	gal/min	5.0	7.8	13.4	26.3	43.2	82.9	121.3	198.3	408.4

Dimensions in mm. Leakage rates will be provided on request