

# Check Valves

## Type 05412 - Check Valve



Cryogenic-Check Valves, PN50 (DN10-25), PN40 (DN32), PN35 (DN40-50)

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

**Part No. 05412.X.0008**

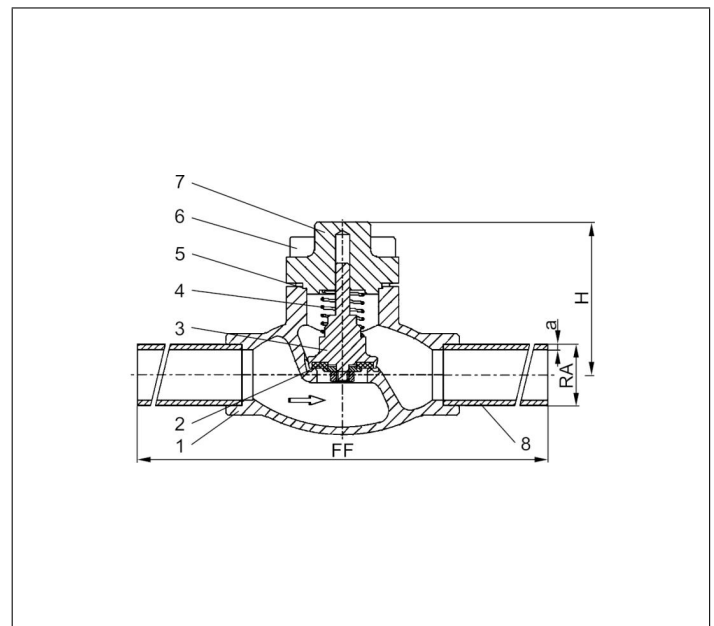
Complete with brazed copper stubs acc. to DIN EN 12449



### 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	CC491K	B 62 UNS C83600
2 Valve seal	PTFE / Carbon filled (25%)	
3 Disc	CW614N	B 283 UNS C38500
4 Spring	CW452K	B 159 UNS C51900
5 Bonnet gasket	PTFE	
6 Bolts	1.4301/A2 A 194 B8	
7 Cap	CC493K	B 505 UNS C93200
8 Copper stubs	CW024A	B 152 UNS C12200



Type 05412 - Standard design	Technical data								
Nominal size	DN	10	15	15	20	25	32	40	50
Dimension code	.X.	1012	1515	1518	2022	2528	3235	4042	5054
Face-to-face dimension	FF	360	385	385	385	415	415	420	460
Height	H	71	71	71	72	75	87	95	95
Outside pipe-Ø	RA	12.0	15.0	18.0	22.0	28.0	35.0	42.0	54.0
Wall thickness pipe	a	1.0	1.5	1.5	1.5	1.5	1.5	1.5	2.0
Weight	ca. kg	0.8	1.1	1.1	1.4	2.0	2.8	4.5	6.5
Kvs-Value	m <sup>3</sup> /h	2.2	4.3	4.3	6.7	11.5	12.1	22.6	37.1
Cv-Value	gal/min	2.6	5.0	5.0	7.8	13.4	14.1	26.3	43.2

Dimensions in mm. Leakage rates will be provided on request