

CH Series Check Valves

Tylok Check Valves are poppet style valves made of 316 Stainless Steel. Their compact designs are perfect for instrumentation systems. These directional valves are normally closed, but open when the differential pressure between the inlet and outlet exceed the spring pressures.

Features:

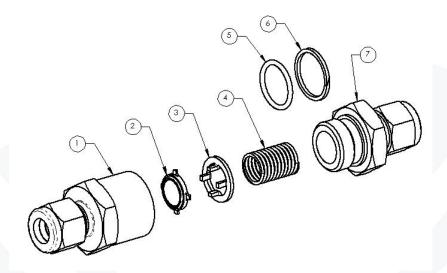
- 6000 psi maximum pressure rating
- -10 °F to 400 °F temperature rating
- 1/3 to 10 psi cracking pressures
- Fluorocarbon FKM Seals
- End connections
 - Integral tube fitting (both twin [CBC-Lok[®]] & single [CS-Lok[®]] ferrule designs)
 - o Female NPT
 - Male NPT
- Available in sizes in 1/4", 3/8", 1/2", 3/4", and 1"





Materials of Construction

NO.	DESCRIPTION	MATERIAL / ASTM SPEC. 316SS / A479 FLUOROCARBON FKM- BONDED 316SS / A479		
1	IN LET BODY			
2	BONDED POPPET			
3	POPPET STOP	316SS / A479		
4	SPRING	302SS / A313		
5	O-RING	FLUOROCARBON FKA		
6	BACKUP RING PTFE / D17			
7	outlet body	316SS / A479		



Pressure-Temperature Ratings

(based on fluorocarbon FKM seals)

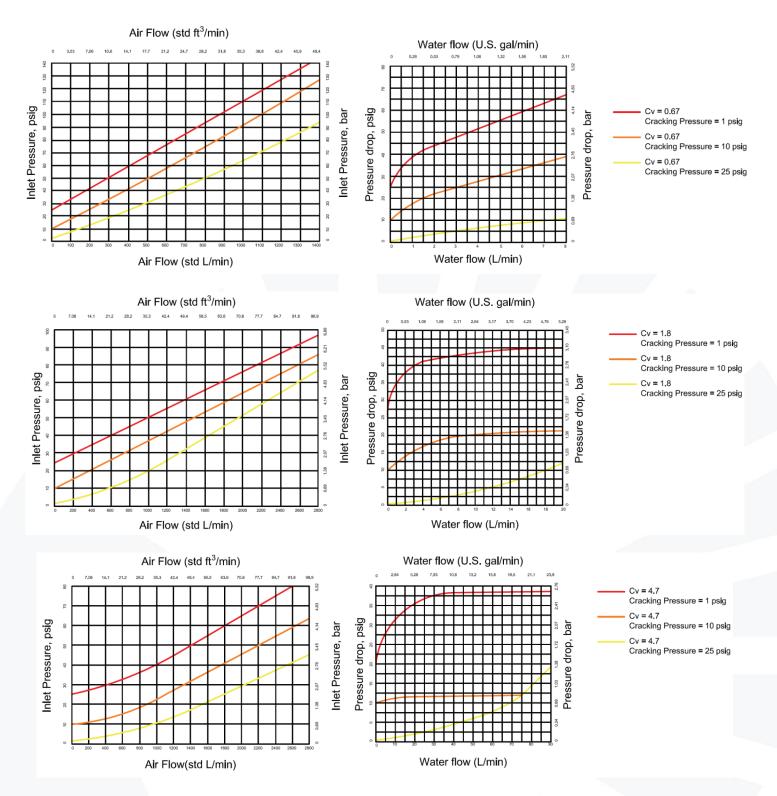
Temperature, °F (°C)	Working Pressure, psig (bar)		
-10 (-23) to 100 (37)	6000 (413)		
200 (93)	5160 (355)		
250 (121)	4910 (338)		
300 (149)	4660 (321)		
400 (204)	4280 (295)		

Cracking and Reseal Pressures

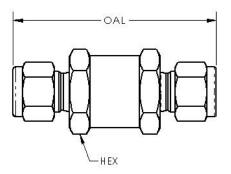
Nominal Cracking Prossure	Cracking Prossure Pango	Bosoal Drossuro Bango		
Nominal Cracking Pressure	Cracking Pressure Range	Reseal Pressure Range		
psig (bar)	psig (bar)	psig (bar)		
1 (2 (0 02)	1/2 to $2/0.02$ to 0.21	Up to 6 (0.41) downstream		
1/3 (0.02)	1/3 to 3 (0.02 to 0.21)	pressure		
1 (0.07)	$1 \pm 0.4 (0.07 \pm 0.028)$	Up to 5 (0.34) downstream		
1 (0.07)	1 to 4 (0.07 to 0.28)	pressure		
10 (0 60)	$7 \pm 0.15 (0.48 \pm 0.10)$	3 (0.21) or more upstream		
10 (0.69)	7 to 15 (0.48 to 1.0)	pressure		



Flow Data







End Connection			Pressure Rating			
Туре	Size	Ordering Number	at 100 °F (37 °C)	Cv	OAL	Hex
			psig (bar)			
	1/8	SS-CH-D2D2-	6000 (414)	0.67	2.27	11/16
	1/4	SS-CH-D4D4-			2.43	
CBC-Lok [®] Tube	3/8	SS-CH-D6D6-		1.80	2.75	1
Fitting	1/2	SS-CH-D8D8-			2.96	
	3/4	SS-CH-D12D12-	5000 (344) 4.70		3.52	1 5 /9
	1	SS-CH-D16D16-	4700 (323)	4.70	3.88	1-5/8
	1/8	SS-CH-S2S2-		0.67	2.27	11/16
	1/4	SS-CH-S4S4-	6000 (414)	0.07	2.43	
CS-Lok [®] Tube	3/8	SS-CH-S6S6-	6000 (414)	1.80	2.75	1
Fitting	1/2	SS-CH-S8S8-			2.96	
	3/4	SS-CH-S12S12-	5000 (344) 4.70	3.52	1-5/8	
	1	SS-CH-S16S16-	4700 (323)	4.70	3.88	1-2/0
	1/4	SS-CH-F4F4-	6000 (414)	0.67	2.13	11/16
Female NPT to	3/8	SS-CH-F6F6-	5000 (344)	1.80	2.55	1
Female NPT	1/2	SS-CH-F8F8-	4600 (316)	1.60	3.03	
	3/4	SS-CH-F12F12-	4300 (296)	4.70	3.23	1-5/8
	1	SS-CH-F16F16-	4100 (282)	4.70	3.83	
	1/4	SS-CH-M4M4-		0.67 2	2.17	11/16
Male NPT to	3/8	SS-CH-M6M6-	6000 (414)	1.80	2.36	1
Male NPT to	1/2	SS-CH-M8M8-		1.00	2.73	
	3/4	SS-CH-M12M12-	5000 (344) 4.70	4.70	3.29	1-5/8
	1	SS-CH-M16M16-	5000 (544)	4.70	3.67	

Note: All dimensions subject to change; to be used for reference only.

To order, add the cracking pressure to the P/N. Available cracking pressures (in psi) are 1/3, 1, and 10. Example: SS-CH-D6D6-1/3

NOTICE: In designing a system incorporating tube fittings and valves, it is the designer's or user's obligation and responsibility to determine the appropriate fittings and valves to be used for each application and to insure proper installation and maintenance.

Limited Warranty: Tylok fittings and valves are warranted against defects in material and workmanship for the life of the product. The Warranty above set forth is the only warrant applicable to Tylok products, and is in lieu of any and all other warranties either express or implied, including any warranty of merchantability or fitness. Tylok's sole responsibility or liability as a result of any loss or damage due to a failure shall be to replace the failed part or fitting and valve, and it shall bear no liability for any incidental or consequential damages to person or property.

