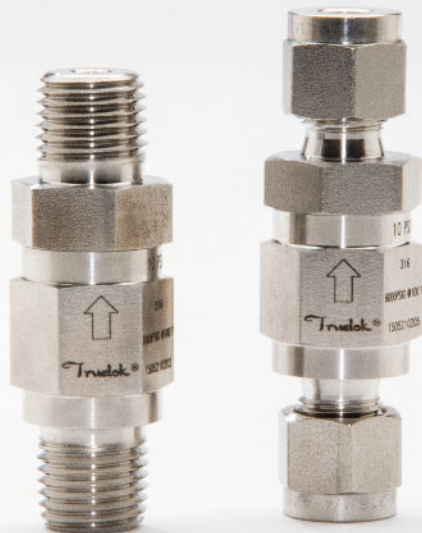


Truelok®

[THE MEASURABLE DIFFERENCE]

CHECK VALVES

(CHV Series: For General Industry)



CHV Series:

- Maximum Working Pressure: up to 6000 psig (413 bar) @ 100°F(37°C)
- Cracking Pressure: 1/3 psi (0.03 bar) to 25 psi (1.80 bar)
- Working Temperature Range: -10°F(-23°C) to 375°F(190°C)

FEATURES:

- Stainless Steel Construction
- Poppet Design
- In-Line Design
- Variety of End Connections
- Fixed Cracking Pressure

TECHNICAL DATA:

Temperature- Working Pressure Rating

Series	CHV1	CHV2	CHV3
Temperature, °F (°C)	Working Pressure, psig (bar)		Working Pressure, psig (bar)
-10(-23) to 100 (37)	6000 (413)		5000 (344)
-10(-23) to 200 (93)	5160 (355)		4290 (295)
-10(-23) to 250 (121)	4910 (338)		4080 (281)
-10(-23) to 300 (148)	4660 (321)		3875 (266)
-10 (-23) to 375 (190)	4280 (294)		3560 (245)

Cracking and Reseal Pressures at 70°F (20°C)

	Nominal Cracking Pressure psi (bar)	Cracking Pressure Range psi (bar)	Reseal Pressure psi (bar)
Cracking Pressure psi (bar)	1/3 (0.03)	Up to 3 (0.21)	Up to 6 (0.42) back pressure
	1 (0.07)	Up to 4 (0.28)	Up to 5 (0.35) back pressure
	5 (0.35)	3 to 9 (0.21-0.63)	Up to 2 (0.14) back pressure
	10 (0.69)	7 to 15 (0.49 to 1.1)	3 (0.21) or more upstream pressure
	25 (1.80)	20 to 30 (1.4 to 2.1)	17 (1.2) or more upstream pressure

- **Cracking Pressure:** The inlet pressure at which the first indication of flow occurs
- **Reseal Pressure:** The pressure at which there is no indication of flow
- **Back Pressure:** The differential pressure between the inlet and outlet pressures

Caution:

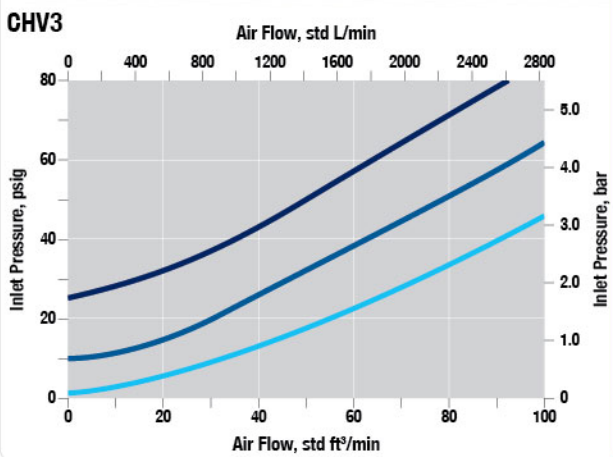
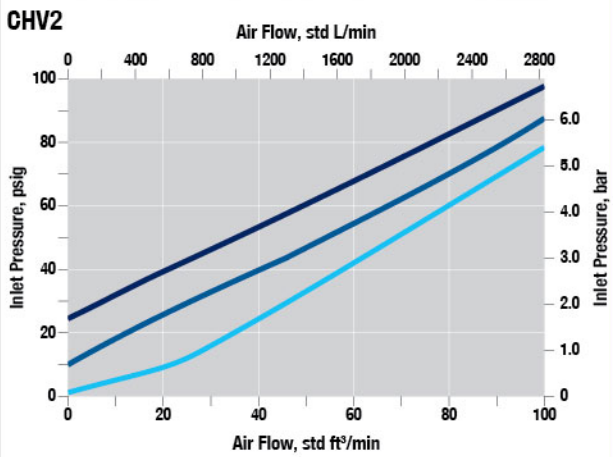
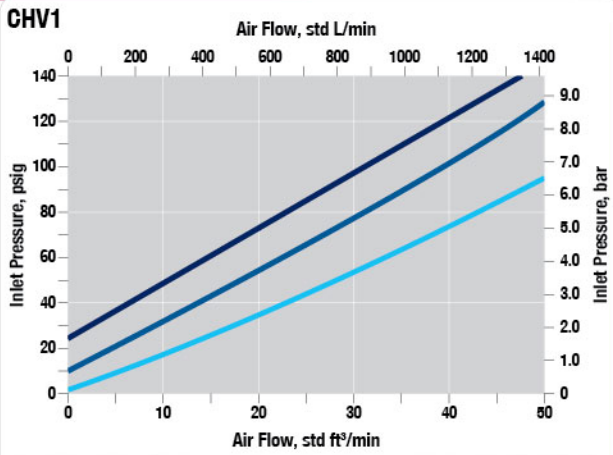
For valves not actuated for a period of time, initial cracking pressure may be higher than the set cracking pressure.

FLOW DATA AT 70°F (20°C)

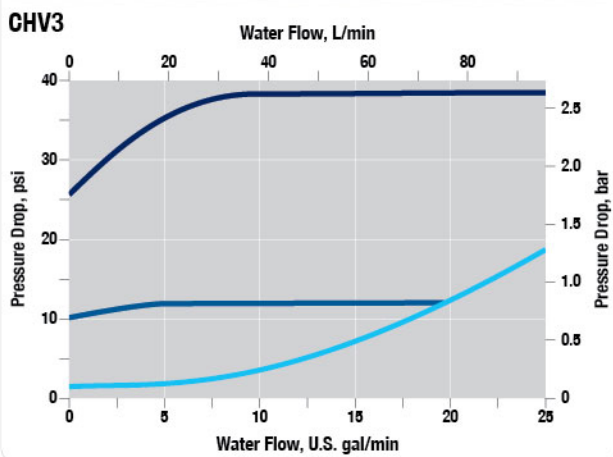
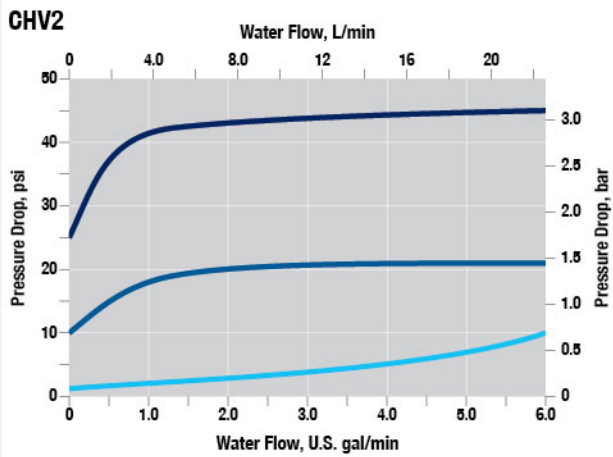
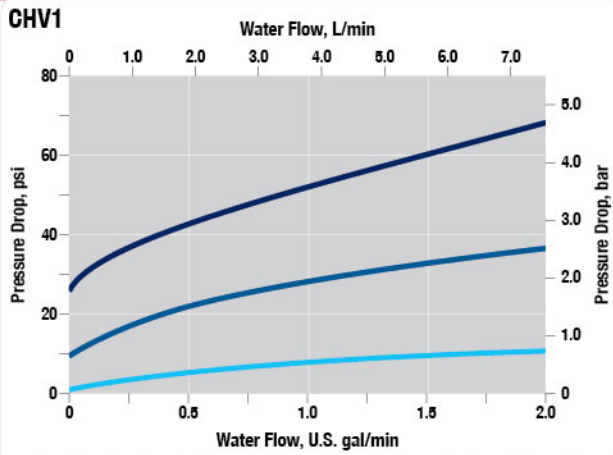
CHV Series

Nominal Cracking Pressures — 1 psi (0.07bar) — 10 psi (0.69bar) — 25 psi (1.8 bar)

AIR



WATER



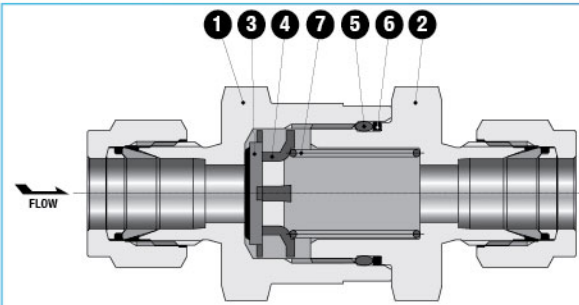
Testing:

Every valve is factory tested for functionality at the relevant cracking and reseal pressure.

Cleaning and Packing:

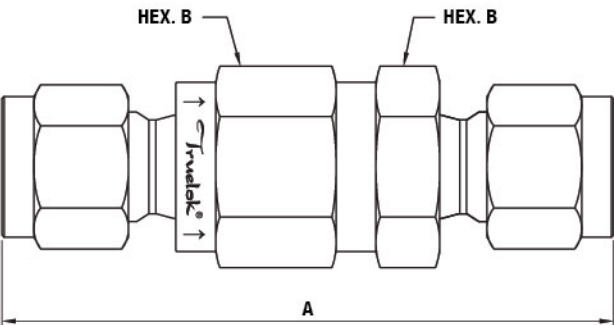
Every valve is cleaned and packaged in accordance with Truelok standard specifications of cleaning and packaging procedures, P1004 & P1007.

MATERIALS OF CONSTRUCTION:

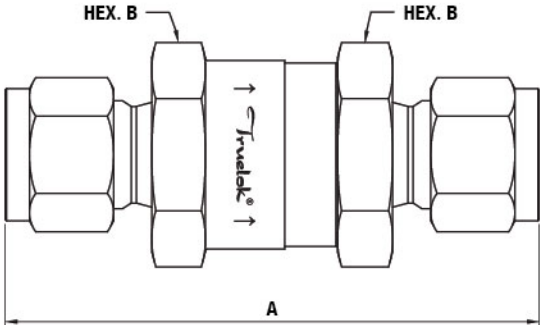


No.	Description	Material
		Material Grade/ ASTM Specification
1	Inlet Body	316 SS/A479
2	Outlet Body	316 SS/A479
3	Poppet Assembly	FKM- bonded 316 SS/A479
4	Poppet Stoper	316 SS/A276
5	O-Ring	Fluorocarbon FKM
6	Backup Ring	PTFE
7	Spring	316 SS/A479

DIMENSIONS:



CHV1 SERIES



CHV2 / CHV3 SERIES

Type		Orifice Inches	Cv	End Connections		Pressure Rating psig (bar) @ 100°F(37°C)	Dimensions Inches	
Series	Connection			Inlet	Outlet		A	B
CHV1	2TF	0.189	0.67	1/8" TF		6000 (413)	2.27	11/16
	4TF			1/4" TF			2.43	
	4FN			1/4" Female NPT			2.13	
	2MN			1/8" Male NPT			1.79	
	4MN			1/4" Male NPT			2.17	
CHV2	6TF	0.307	1.8	3/8" TF		6000 (413)	2.75	1
	8TF			1/2" TF			2.96	
	6FN			3/8" Female NPT		5300 (365)	2.55	
	8FN			1/2" Female NPT		4900 (337)	3.03	1 1/16
	6MN			3/8" Male NPT		6000 (413)	2.36	1
	8MN			1/2" Male NPT			2.73	
CHV3	12TF	0.591	4.7	3/4"TF		5000 (344)	3.52	1 5/8
	16TF			1" TF		4700 (324)	3.88	
	12FN			3/4"Female NPT		4600 (316)	3.23	
	16FN			1" Female NPT		4400 (303)	3.83	
	12MN			3/4" Male NPT		5000 (344)	3.29	
	16MN			1" Male NPT			3.67	

ORDERING INFORMATION:

CHV1-S-4TF-1

CHV1=Valve Series, S=SS, 4TF= 1/4" Tube Fitting, 1= Cracking Pressure

Series (Orifice Size)	Material	Connection Size	Connection Type	Cracking Pressure
CHV1 (0.19")	S=Stainless Steel 316	2=1/8"	TF=Tube Fitting	1/3 psi=1/3
CHV2 (0.31")		4=1/4"	MN=Male NPT	1 psi=1
CHV3 (0.60")		6=3/8"	FN=Female NPT	5 psi=5
		8=1/2"	MFS=Face Seal	10 psi=10
				25 psi=25

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Truelok® Valves and Fittings

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