TETRAPY

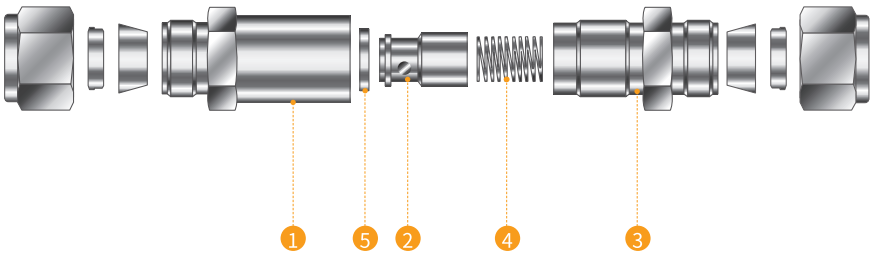
CHECK VALVE

DCV SERIES

DESIGN FEATURE

- ❖Flxed cracking pressure.
- ❖Pressure rating up to 3000 psig.
- ❖Temperature rating up 375°F (190°C).
- ❖Various end connection.
- ❖Body materials available in SS316 and Brass.
- ❖O-Ring provides leak-tight seal.
- ❖Back stopped poppet minimizes spring overstress.
- ❖Cracking pressures include 1/3, 1, 3, 10, 25, 100 psi.
- ❖100% factory tested for cracking and reseating

MATERIALS OF CONSTRUCTION



Item	Part Description	Stainless Steel	Brass
1	IN let Body	SS316	Brass / 316
2	Poppet		
3	Connector		
4	Spring	SS302	SS302
5	O-Ring	Viton	NBR

※ Silicon-based lubricant for poppet.
Molybdenum dry film lubricant for SS316 body threds.

CRACKING AND RESEAL PRESSURE

Nominal Cracking pressure		Minmum Cracking pressure		Maximum Cracking pressure		Ressal Pressure	
psi	bar	psi	bar	psi	bar	psi	bar
1/3	0.02	0	0	3	0.21	up to 6 downstream pressure	0.41
1	0.07	0	0	4	0.28	up to 5 downstream pressure	0.34
3	0.21	2	0.14	7	0.48	up to 4 downstream pressure	0.28
10	0.69	7	0.48	15	1.03	3 or more upstream pressure	0.28
25	1.72	20	1.38	30	2.07	17 or more upstream pressure	1.17
100	6.90	80	5.51	110	7.58	70 or more upstream pressure	4.82

※ Example : Form the graoh, the actual cracking pressure of nominal cracking pressure 25psi is shown to range between 20 psi to 30 psi, and the reseal pressure 17psi to 20 psi

※ Cracking pressure is defined as the upstream pressure at which a detectable flow is measured.

※ Reseal pressure is defined as the downstream pressure at which the check valve closes bubble-tight.

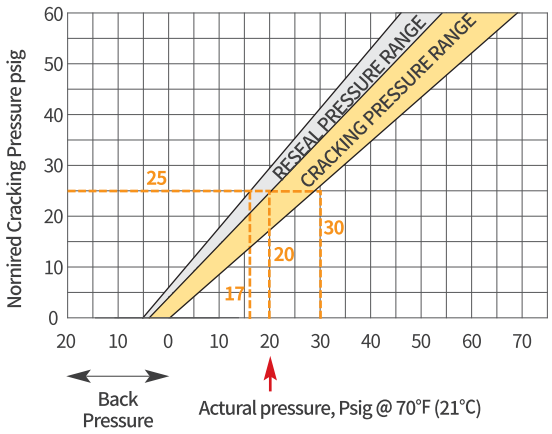
FACTORY TESTING

❖Every D-LOK 300 Series Check Valve is adjusted for factory testing with nitrogen for cracking and reseal performance.

CLEANNING AND PACKING

❖All valves are cleaned and packaged in accordance with D-LOK stanard cleaning and packaging procedures.

TECHNICAL INFORMATION



SAFEY IN VALVE SELECTION

❖Selections of valve function and rating, proper installation, material compatibility, operation and maintenance of these valve are the responsibility of the user.

❖The system design, application must be taken into consideration to ensure optimal performance and safety.

❖We accept no liability for any improper selection, installation, operation or maintenance.

CHECK VALVE

DCV SERIES

HOW TO ORDER

DCV1 — SERIES DESIGNATOR BY ORIFICE SIZE

- **DCV1 :** 4.8mm Orifice
- **DCV2 :** 7.1mm Orifice
- **DCV3 :** 10.0mm Orifice
- **DCV4 :** 13.3mm Orifice
- **DCV5 :** 16.0mm Orifice
- **DCV6 :** 18.5mm Orifice

• MD — END CONNECTION DESIGNATOR

- **D :** Both Ends D-LOK Tube Fitting
- **M :** Both Ends Male Pipe Therad
- **F :** Female Pipe Therad
- **MD :** Male Pipe Therad & D-LOK Tube Fitting
- **MF :** Male Pipe Therad & Female Pipe Therad

• 8N8T — SIZE DESIGNATOR

- **NPT(ISO/BSP)**

Thread(In.)	1/8	1/7	3/8	1/2	3/4	1
Designator	2N(R)	4N(R)	6N(R)	8N(R)	12N(R)	16N(R)

- **TUBE**

Fractional Tube	O.D.(In.)	1/8	1/4	3/8	1/2	3/4	1
	Designator	2T	4T	6T	8T	12T	16T
Metric Tube	O.D.(mm)	3	6	8	10	12	25
	Designator	3M	6M	8M	10M	12M	25M

• 1/3 — NOMINAL CRACKING PRESSURE DESIGNATOR

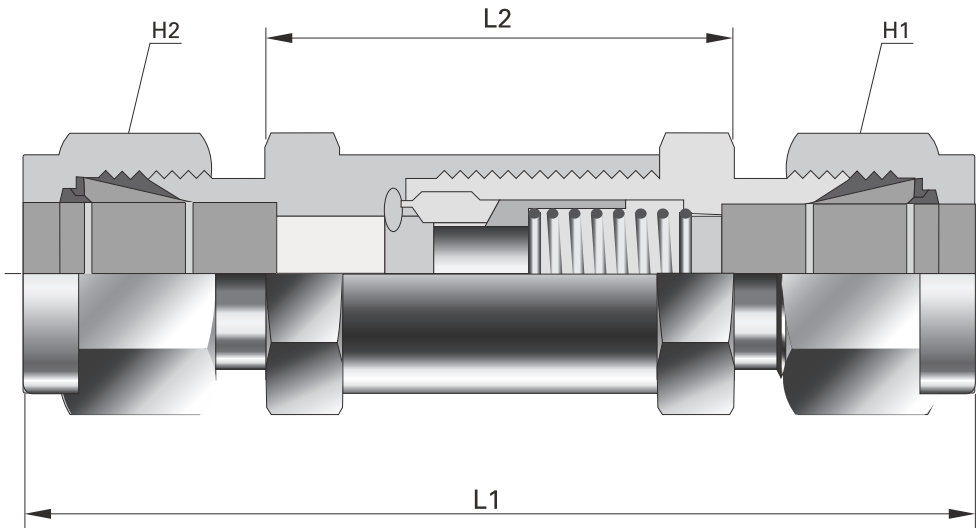
- **1/3 :** 1/3 psig
- **1 :** 1 psig
- **3 :** 3 psig
- **10 :** 10 psig
- **25 :** 25 psig
- **100 :** 100 psig

• ST — O-RING MATERIAL DESIGNATOR

- **ST :** Viton(Standard)
- **BU :** Buna N
- **KZ:** Kalrez
- **NP:** Neoprene
- **EP :** Ethylene Propylene
- **PE :** PTFE

• S — BODY MATERIAL DESIGNATOR

- **S :** SS316
- **B :** Brass



ORDERING INFORMATION AND TABLE OF DIMENSIONS

Basic Ordering Number		End Connections		Dimensions(mm)				Orifice (mm)	Cv
		Inlet	Outlet	H1	H2	L1	L2		
DCV1	D-2T-	1/8" D-LOK	1/8" D-LOK	15.88	11.11	55.60	25.00	4.8	0.16
	M-2N-	1/8" Male NPT	1/8" Male NPT		-	44.40			0.47
	F-2N-	1/8" NPT	1/8" NPT		-	46.50	-		
	D-4T-	1/4" D-LOK	1/4" D-LOK		14.29	60.00	25.00		
	D-6M-	6mm D-LOK	6mm D-LOK		14.00				
	MD-4N4T-	1/4" Male NPT	1/4" Male NPT		14.29	56.40			
	M-4N-	1/4" Male NPT	1/4" Male NPT		-	53.40			
	F-4N-	1/4" Female NPT	1/4" Female NPT		-	54.60			
DCV2	D-6T-	3/8" D-LOK	3/8" D-LOK	19.05	17.45	74.80	36.20	7.1	1.48
	D-10M-	10mm D-LOK	10mm D-LOK		19.00				
	M-6N-	3/8" Male NPT	3/8" Male NPT		-	64.60			
DCV3	F-6N-	3/8" Female NPT	3/8" Female NPT	22.22	-	63.80	-	10.0	1.7
	D-8T-	1/2" D-LOK	1/2" D-LOK		22.22	80.20	38.20		
	D-12M-	12mm D-LOK	12mm D-LOK		22.00				
	M-8N-	1/2" Male NPT	1/2" Male NPT		-	74.40			
DCV4	F-8N-	1/2" Female NPT	1/2" Female NPT	28.58	-	84.70	-	13.5	2.6
	D-10T-	5/8" D-LOK	5/8" D-LOK		25.40	91.80	48.10		
DCV5	D-12T-	3/4" D-LOK	3/4" D-LOK	31.75	28.58	110.70	67.00	16.0	5.2
	M-12N-	3/4" Male NPT	3/4" Male NPT		-	106.30			
	F-12N-	3/4" Female NPT	3/4" Female NPT		-	103.00	-		
DCV6	D-16T-	1" D-LOK	1" D-LOK	34.93	38.1	121.20	68.40	18.0	8.0
	M-16N-	1" Male NPT	1" Male NPT		-	116.20			
	F-16N-	1" Female NPT	1" Female NPT	41.28	-	111.40			

※ All dimensions shown are for reference purposes only, subject to change.