

How to Order

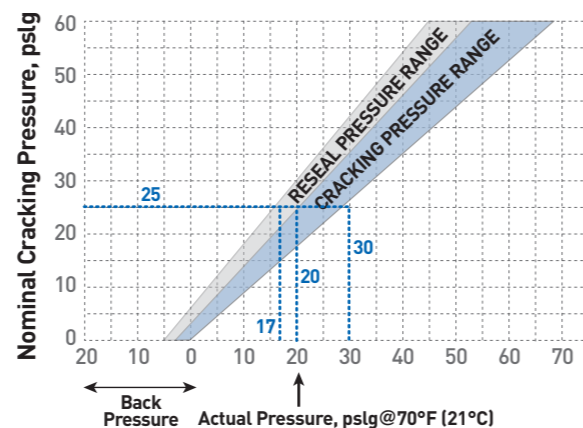
NCVA	MD	4N 4T	1/3	ST	S																																														
Series Designator by Orifice Size	End Connection Designator	Size Designator	Nominal Cracking Pressure Designator	O-Ring Material Designator	Body Material Designator																																														
- NCVA: 4.8mm Orifice - NCVB: 7.1mm Orifice - NCVC: 10.0mm Orifice - NCVD: 13.3mm Orifice - NCVE: 16.0mm Orifice - NCVF: 18.5mm Orifice	- D: Both Ends D-LOK lube Fitting - M: Both Ends Male Pipe Thread - F: Both Ends Female Pipe Thread - MD: Male Pipe Thread and D-LOK Tube Fitting - MF: Male Pipe Thread and Female Pipe Thread	- Inlet/Outlet NFT(ISO/BSP) Tube	- 1/3:1/3 psi - 1:1 psi - 3:3 psi - 10:10 psi - 25:25 psi - 100:100 psi	- ST: Viton(Standard) - BU: Buna N - KZ: Kalrez - NP: Neoprene - EP: Ethylene Propylene - PE: PTFE	- S: SS316 - B: Brass																																														
		<table border="1"> <thead> <tr> <th>Thread(In.)</th> <th>1/8</th> <th>1/7</th> <th>3/8</th> <th>1/2</th> <th>3/4</th> <th>1</th> </tr> </thead> <tbody> <tr> <td>Designator</td> <td>2N(R)</td> <td>4N(R)</td> <td>6N(R)</td> <td>8N(R)</td> <td>12N(R)</td> <td>16N(R)</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th>Fractional Tube</th> <th>O.D.(In.)</th> <th>1/8</th> <th>1/4</th> <th>3/8</th> <th>1/2</th> <th>3/4</th> <th>1</th> </tr> </thead> <tbody> <tr> <td>Designator</td> <td></td> <td>2T</td> <td>4T</td> <td>6T</td> <td>8T</td> <td>12T</td> <td>16T</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th>Metric Tube</th> <th>Q.D.(mm)</th> <th>3</th> <th>6</th> <th>8</th> <th>10</th> <th>12</th> <th>25</th> </tr> </thead> <tbody> <tr> <td>Designator</td> <td></td> <td>3M</td> <td>6M</td> <td>8M</td> <td>10M</td> <td>12M</td> <td>25M</td> </tr> </tbody> </table>				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)	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	Q.D.(mm)	3	6	8	10	12	25	Designator		3M	6M	8M	10M	12M	25M
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Cracking and Reseal Pressure

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

Example: From the graph, the actual cracking pressure of nominal cracking pressure 25 psi is shown to range between 20 psi to 30 psi, and the reseal pressure 17 psi 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.



Technical Information

Series	NCVA	NCVB, NCVC, NCVD	NCVE, NCVF
Maximum Working Pressure @ 21°C (70°F)	SS316 : 3000 psig (206 bar) Brass : 3000 psig (206 bar)		SS316 : 2000 psig (137 bar) Brass : 1500 psig (103 bar)
Operating Temperature Range	Viton O-Ring : -23°C ~ 191°C (-10°F ~ 375°F) Buna N O-Ring : -23°C ~ 121°C (-10°F ~ 250°F) Kalrez O-Ring : -23°C ~ 315°C (-10°F ~ 600°F) Neoprene O-Ring : -40°C ~ 121°C (-40°F ~ 250°F) Ethylene Propylene : -46°C ~ 149°C (-50°F ~ 300°F) PTFE O-Ring : -46°C ~ 232°C (-50°F ~ 450°F)		
Nominal Cracking Pressure	1/3, 1, 3, 10, 25, 100 psi (0.02, 0.07, 0.21, 0.69, 1.72, 6.90 bar)		1/3, 1, 3, 10, 25 psi (0.02, 0.07, 0.21, 0.69, 1.72 bar)

*PTFE seated valves require a minimum back pressure of 100 psi (6.90 bar) to insure a leak-tight reseal.



NAIMAN[®] CHECK VALVES 300 SERIES

Fixed cracking pressure
For working pressure up to 3000 psig (206 bar)



Factory Testing

Every NAIMAN 300 Series Check Valve is adjusted for factory testing with nitrogen for cracking and reseal performance.

Cleaning and Packaging

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

Safety in Valve Selection

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

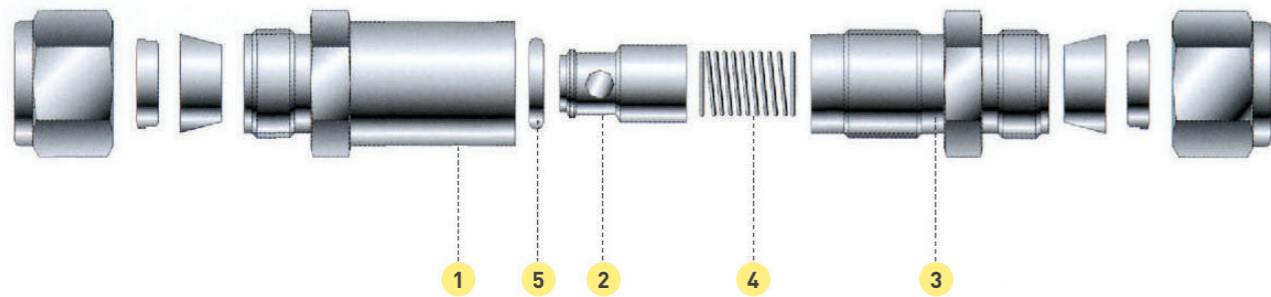
The system design, application must be taken into consideration to ensure optimal performance and safety.

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

Design Feature

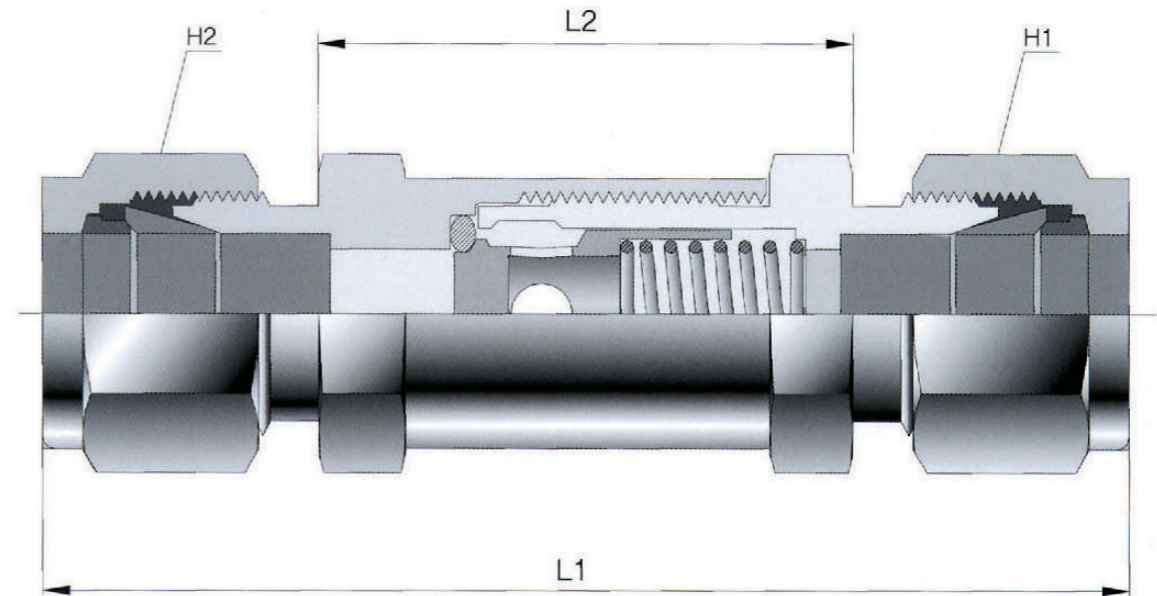
- Fixed cracking pressure.
- Pressure rating up to 3000 psig.
- Temperature rating up to 375°F (190°C).
- Various end connection.
- Body materials available in SS316 and Brass.
- O-Ring provides leak-tight seal.
- Back stopped poppet minimizes spring overstress.
- Cracking pressures include 1/3, 1, 3,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

Materials of construction



Item	Part Description	Stainless Steel	Brass
1	Body	SS316	Brass / B16
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 threads.



Ordering Information and Table of Dimensions

Basic Ordering Number	End Connections		Dimensions (mm)				Orifice (mm)	Cv		
	Intet	Outlet	H1	H2	L1	L2				
NCVA	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		-	44.50				
	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	56.40				
	MD-4N4T-	1/4" Male NPT	1/4" Male NPT		14.29	53.40	-			
	M-4N-	1/4" Male NPT	1/4" Male NPT		-	54.60	-			
	F-4N-	1/4" Female NPT	1/4" Female NPT		-	54.60	-			
NCVB	D-6T-	3/8" D-Lok	3/8" D-Lok	19.05	17.46	74.80	36.20	7.1	1.48	
	D-10M-	10mm D-Lok	10mm D-Lok		19.00	64.60				
	M-6N-	3/8" Male NPT	3/8" Male NPT		-	63.80				-
NCVC	F-6N-	3/8" Female NPT	3/8" Female NPT	22.22	-	80.20	36.20	10.0	1.7	
	D-8T-	1/2" D-Lok	1/2" D-Lok		22.22	74.40				
	D-12M-	12mm D-Lok	12mm D-Lok		22.00	84.70				-
NCVD	M-8N-	1/2" Male NPT	1/2" Male NPT	28.58	-	91.80	48.10	13.5	2.6	
	F-8N-	1/2" Female NPT	1/2" Female NPT		25.40	110.70				
NCVE	D-10T-	5/8" D-Lok	5/8" D-Lok	31.75	28.58	106.30	67.00	16.0	5.2	
	D-12T-	3/4" D-Lok	3/4" D-Lok		-	103.00				-
	M-12N-	3/4" Male NPT	3/4" Male NPT		-	121.20				-
NCVF	F-12N-	3/4" Female NPT	3/4" Female NPT	34.93	38.1	116.20	68.40	18.0	8.0	
	D-16T-	1" D-Lok	1" D-Lok		-	111.40				-
	M-16N-	1" Male NPT	1" Male NPT		41.28	-				-
	F-16N-	1" Female NPT	1" Female NPT							

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