

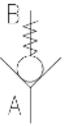
# CHECK VALVE - CVK/ LCK



Ball Type | Direct Acting | Screw-in/ Line Mounted

## Specification/ Technical Data

Max. Operating Pressure	700 bar
Maximum Flow	250 lpm
Max. Internal Leakage	0.3ml/min
Flow Direction	A to B
Cracking Pressure	1.5 bar
Custom Cracking Pressure	Upon Request
Material	Carbon Steel
Media	Mineral Oil
Oil Temperature Range	+10 to 80°C
Oil Viscosity	ISO VG 46-100
Oil Cleanliness (ISO 4406)	20/18 /15
Orientation	Any
Weight	0.05 - 0.15Kg



CVK and LCK series check valves are direct-acting, ball-type, spring-loaded non-return valves designed for reliable load holding and oil path isolation in hydraulic circuits. The valves permit oil flow from Port A to Port B subject to cracking pressure of the valve. In the reverse direction, the valve provides positive shut-off, completely blocking oil flow.

CVK type is a screw-in cartridge type design suitable for compact manifold integration and LCK is a line-mounted version featuring standard BSP threads.

Consult factory for custom requirements, including: custom cracking pressures, stainless steel construction, specialised thread patterns, etc.

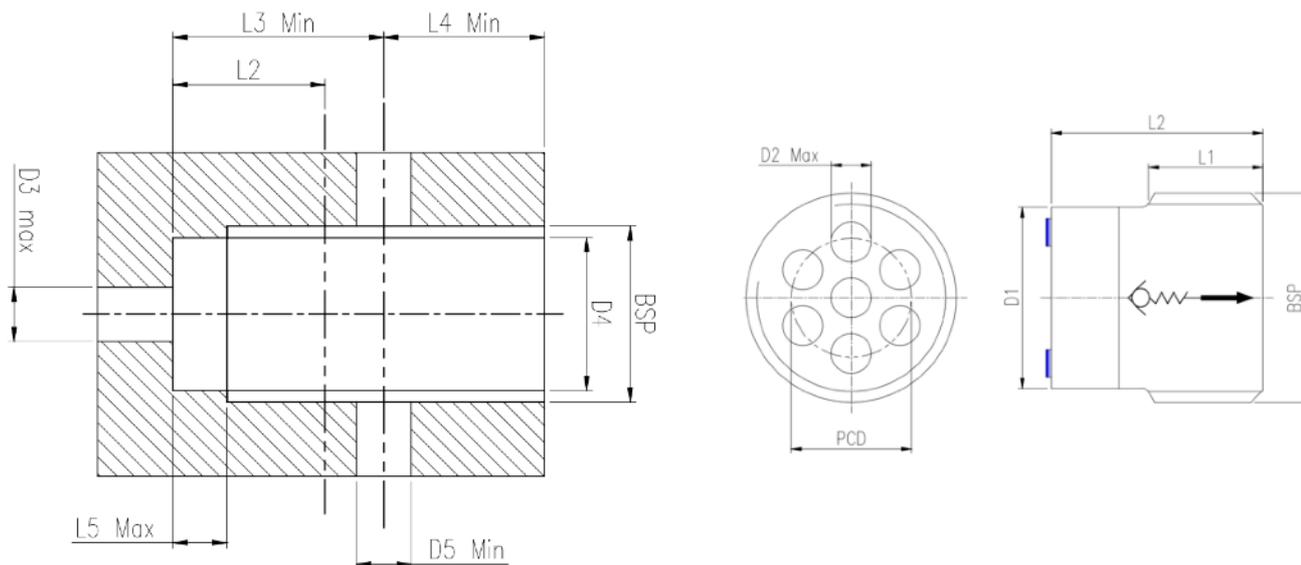
Note: Assembly Tool is available on request or refer page-3 for details  
Consult factory for stainless steel MOC

## Ordering Information

Basic Code	CVL/ LCK	CVK
Size/ NG	1/8" to 1" BSP	0... 5
Cracking Pr.	1.5 bar	No code
Seal Material	Viton	No code
Version		3x

Size/ Type	Flow LPM	Max Pr. Bar	Wt. Kg	Torque N-m
CVK 0	12	700	0.05	3
CVK 1	22	700	0.05	7
CVK 2	30	600	0.05	15
CVK 3	65	550	0.07	30
CVK 4	180	420	0.10	60
CVK 5	250	350	0.15	120

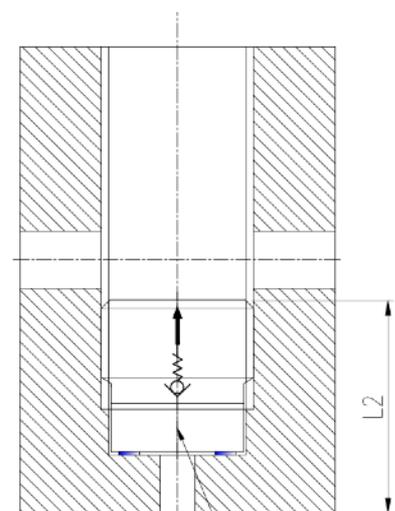
Size/ Type	Size	Flow LPM	Max Pr. Bar	Wt. Kg
LCK 1	1/4" BSP	22	700	0.12
LCK 2	3/8" BSP	30	700	0.22
LCK 3	1/2" BSP	65	420	0.32
LCK 4	3/4" BSP	180	315	0.55
LCK 5	1" BSP	250	315	1.2



Size	BSP	∅D1	∅D2	∅D3	∅D4	∅D5	PCD	L1	L2	L3	L4	L5
CVK0-3x	1/8"	8.5	2.0	3.0	8.8	5.0	6.0	6.5	10.0	14.0	15.0	4.0
CVK1-3x	1/4"	11.4	2.5	3.0	11.8	5.0	7.5	7.5	13.5	18.0	20.0	4.0
CVK2-3x	3/8"	14.75	3.0	5.0	15.25	7.0	9.5	10.0	18.0	23.0	20.0	6.0
CVK3-3x	1/2"	18.2	3.5	7.0	19.0	10.0	12.0	12.0	22.0	30.0	25.0	8.0
CVK4-3x	3/4"	23.7	5.5	12.0	24.5	14.0	16.0	16.0	30.0	40.0	30.0	12.0
CVK5-3x	1"	29.7	7.0	16.0	30.75	18.0	21.5	20.0	40.0	52.0	35.0	16.0

### Spare List

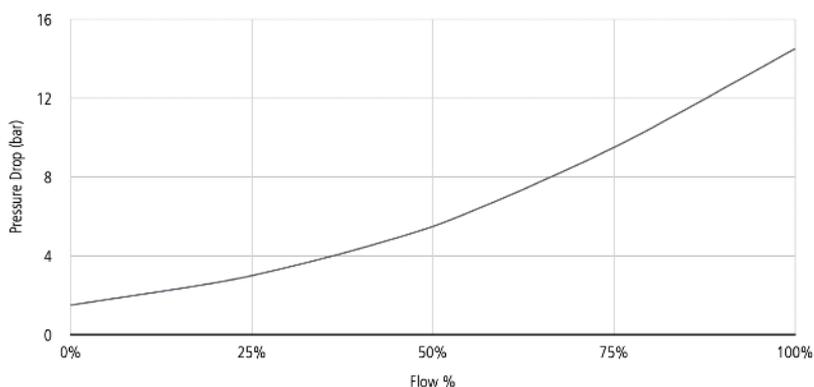
Rect. Ring CVK 0	∅5x∅7.2x1.2mm thk
Rect. Ring CVK 1	∅6x∅9.5x2mm thk
Rect. Ring CVK 2	∅8.5x∅12.5x2mm thk
Rect. Ring CVK 3	∅11x∅15x2mm thk
Rect. Ring CVK 4	∅17x∅21x2mm thk
Rect. Ring CVK 5	∅21x∅26x2.5mm thk



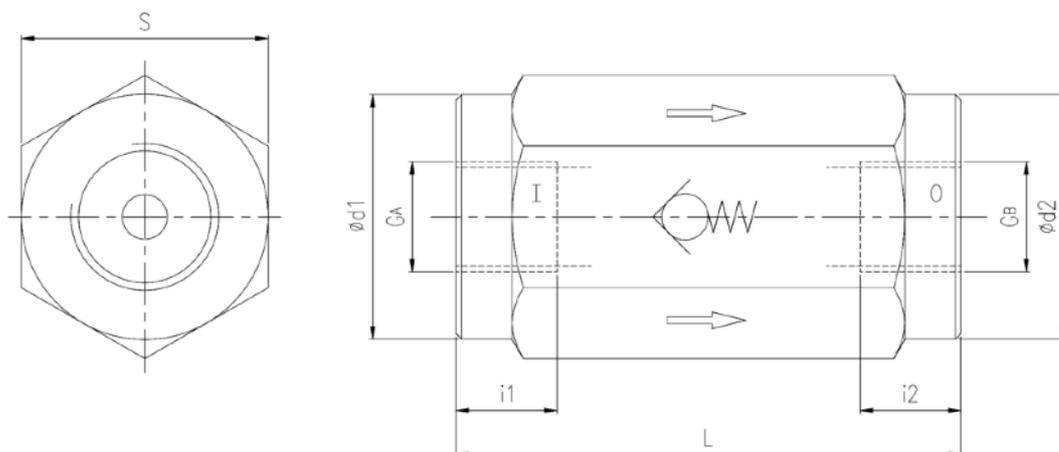
Check Valve  
CVK..-3x

### Performance Chart

Recorded at TOil = 40°C and 68 cSt.



Line Mounted (LCK)

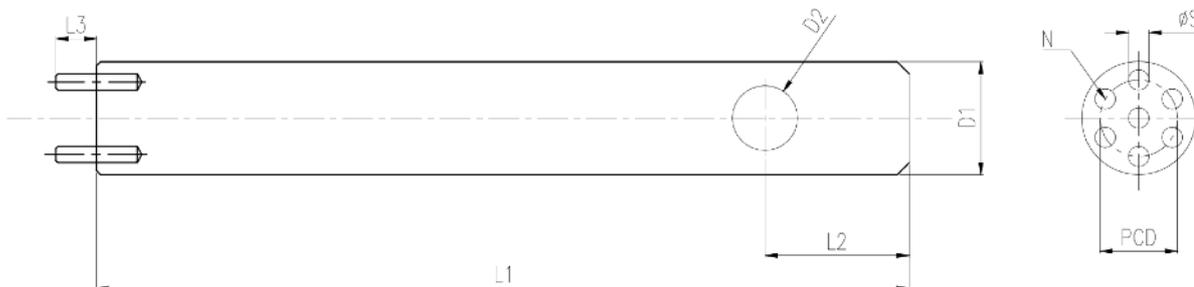


Size	GA	GB	$\phi d1$	$\phi d2$	i1	i2	L	S	Pr. Rating
LCK1-3x	G1/4"	G1/4"	21.5	21.5	12.0	12.0	45.0	22.0	700 Bar
LCK2-3x	G3/8"	G3/8"	23.5	23.5	12.0	12.0	50.0	24.0	700 Bar
LCK3-3x	G1/2"	G1/2"	29.5	29.5	14.0	14.0	60.0	30.0	420 Bar
LCK4-3x	G3/4"	G3/4"	35.5	35.5	16.0	16.0	75.0	36.0	315 Bar
LCK5-3x	G1"	G1"	45.5	45.5	18.0	18.0	90.0	46.0	315 Bar

Note:

- For operating pressure >300bar, use lapped washer instead of bonded washer.
- For Pressure <300 bar, use fitting with ED seal.

Assembly Tool



Ordering Information

Assembly Tool CVK0	ATCVK03x
Assembly Tool CVK1	ATCVK13x
Assembly Tool CVK2	ATCVK23x
Assembly Tool CVK3	ATCVK33x
Assembly Tool CVK4	ATCVK43x
Assembly Tool CVK5	ATCVK53x

Size	BSP	$\phi D1$	$\phi D2$	L1	L2	L3	PCD	N	$\phi S$
CVK0-3x	1/8"	8.0	4	60	10	5	6.0	7	1.5
CVK1-3x	1/4"	10.5	5	80	14	4	7.5	7	2.0
CVK2-3x	3/8"	14.5	7	90	18	7	9.5	7	2.5
CVK3-3x	1/2"	18	9	110	22	7	12.0	7	3.0
CVK4-3x	3/4"	24	12	140	30	9	16.0	7	5.0
CVK5-3x	1"	30	15	174	38	14	21.5	7	6.5

BEMCO FLUIDTECHNIK LLP, Khanapur Road, Udyambag, Belgaum - 590 008 KA IN +91 831 4263001 [info@fluidik.co](mailto:info@fluidik.co)

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