

## In-line check valves

### • CV SERIES

#### INTRODUCTION

CV Series in-line check valves are designed to suit a wide range of applications. The CV Series check valve allows flow in one direction and blocks it in the opposite direction. The flow is only allowed once a pre-set cracking pressure is reached.



#### CONSTRUCTION

- Carbon steel with trivalent plating
- Metal to metal sealing
- Also available in AISI 316 stainless steel (See CVS Series)

#### SPECIFICATIONS

- Operating temperatures : -40°C (-40°F) to 150°C (302°F)

#### FEATURES

- Various cracking pressures are available
- Single directional flow
- Bleed hole can be provided to allow gradual dissipation of the pressure in the hydraulic circuit, beyond the check, once the primary valve is opened to tank

#### APPLICATIONS

- Construction
- Mobile Hydraulics
- Test Equipment
- Machine Tools
- General Hydraulics
- Agricultural

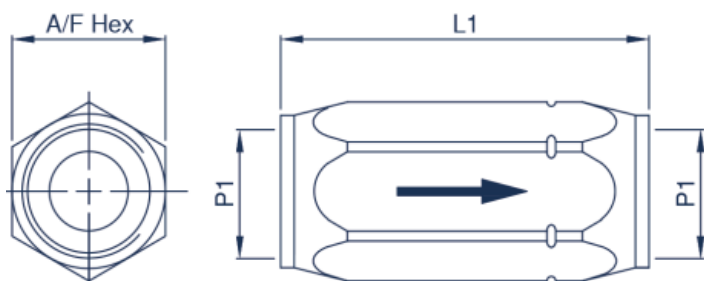
### CV PERFORMANCE CHARACTERISTICS

Body Size	CV06	CV10	CV12	CV19	CV25	CV32	CV40	CV50
	Pressure in bar - Flow in LPM Pressure in PSI - Flow in GPM							
Maximum working pressure	400	400	350	350	350	250	250	250
	5800	5800	5075	5075	5075	3625	3625	3625
Burst pressure	1200	1200	1050	1050	1050	750	750	750
	17400	17400	15225	15225	15225	10875	10875	10875
Rated flow	12	23	45	100	189	250	379	757
	3.2	6.1	12	26.4	50	66	100	200

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#### CRACKING PRESSURE OPTIONS



Value / Unit	*Cracking pressure code
0.35 Bar	0.35
4.5 Bar	4.50
8.3 Bar	8.30
7 PSI	007
58 PSI	058
116 PSI	116

When ordering these parts add the cracking pressure option code number to the part number detailed in the table below.

#### CV SERIES VALVES

Body Size	Part Number *add cracking pressure code	A/F		P1	L1	
		mm	inch	thread	mm	inch
06 (1/4)	CV06-04G-04G-	19.0	0.75	1/4 BSPP	58.0	2.28
	CV06-04N-04N-	19.0	0.75	1/4 NPTF	58.0	2.28
	CV06-04S-04S-	19.0	0.75	7/16-20 UNF	58.0	2.28
10 (3/8)	CV10-06G-06G-	24.0	0.94	3/8 BSPP	62.2	2.45
	CV10-06N-06N-	24.0	0.94	3/8 NPTF	62.2	2.45
	CV10-06S-06S-	24.0	0.94	9/16-18 UNF	62.2	2.45
12 (1/2)	CV12-08G-08G-	30.0	1.18	1/2 BSPP	79.2	3.12
	CV12-08N-08N-	30.0	1.18	1/2 NPTF	79.2	3.12
	CV12-08S-08S-	30.0	1.18	3/4-16 UNF	79.2	3.12
19 (3/4)	CV19-12G-12G-	36.0	1.42	3/4 BSPP	83.1	3.27
	CV19-12N-12N-	36.0	1.42	3/4 NPTF	83.1	3.27
	CV19-12S-12S-	36.0	1.42	1 1/16-12 UN	83.1	3.27
25 (1)	CV25-16G-16G-	45.0	1.77	1 BSPP	106.2	4.18
	CV25-16N-16N-	45.0	1.77	1 NPTF	106.2	4.18
	CV25-16S-16S-	45.0	1.77	1 5/16-12 UN	106.2	4.18
32 (1 1/4)	CV32-20G-20G-	55.0	2.17	1 1/4 BSPP	127.0	5.00
	CV32-20N-20N-	55.0	2.17	1 1/4 NPTF	127.0	5.00
	CV32-20S-20S-	55.0	2.17	1 5/8-12 UN	127.0	5.00
40 (1 1/2)	CV40-24G-24G-	65.0	2.56	1 1/2 BSPP	138.0	5.43
	CV40-24N-24N-	65.0	2.56	1 1/2 NPTF	138.0	5.43
	CV40-24S-24S-	65.0	2.56	1 7/8-12 UN	138.0	5.43
50 (2)	CV50-32G-32G-	75.0	2.95	2 BSPP	160.0	6.30
	CV50-32N-32N-	75.0	2.95	2 NPTF	160.0	6.30
	CV50-32S-32S-	75.0	2.95	2 1/2-12 UN	160.0	6.30

\*For all other configurations or thread types please contact the sales office.