



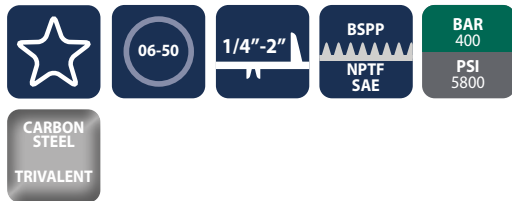
In-line check valves

CV Series



INTRODUCTION

Holmbury's 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)

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

ACCESSORIES

- Not applicable

SPECIFICATIONS

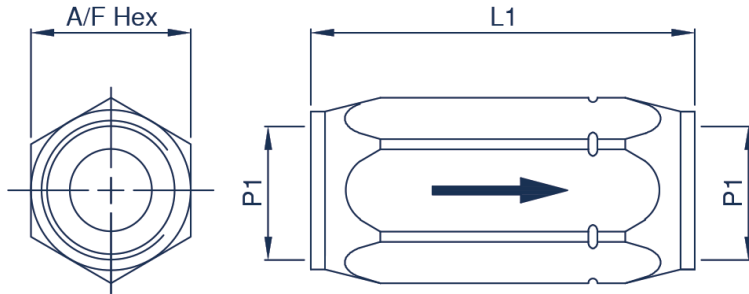
- Not applicable

APPLICATIONS

- General hydraulic systems
- Machine tools
- Test equipment
- Agricultural
- Mobile hydraulics

CV PERFORMANCE CHARACTERISTICS

| Body Size | CV-06 | CV-10 | CV-12 | CV-19 | CV-25 | CV-32 | CV-40 | CV-50 |
|--------------------------|--|-------|-------|-------|-------|-------|-------|-------|
| | 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 |



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 thread | L1 | |
|-------------------|--|------|------|--------------|-------|------|
| | | mm | inch | | 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 |

Parts listed are standard stock items. Other thread type, size, gender and cracking pressures are available upon request.

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