

# CHECK VALVES

## CV SERIES CHECK VALVES

### INTRODUCTION

One-way valve for in-line use.  
Suitable for any type of hydraulic system using liquids that are not highly viscous. The standard types are in zinc plated carbon steel and are therefore especially suitable for non-corrosive mineral based oils and liquids.

### FEATURES

Standard types:

- ★ Good pressure / flow characteristics, see graphs.
- ★ Valve body in zinc plated carbon steel.
- ★ Piston in carbon steel.
- ★ Internal spring in silicon steel - stabilized.
- ★ Cracking points 0.35 bar and 4.5 bar are standard, other values on request.

### ALTERNATIVE USES

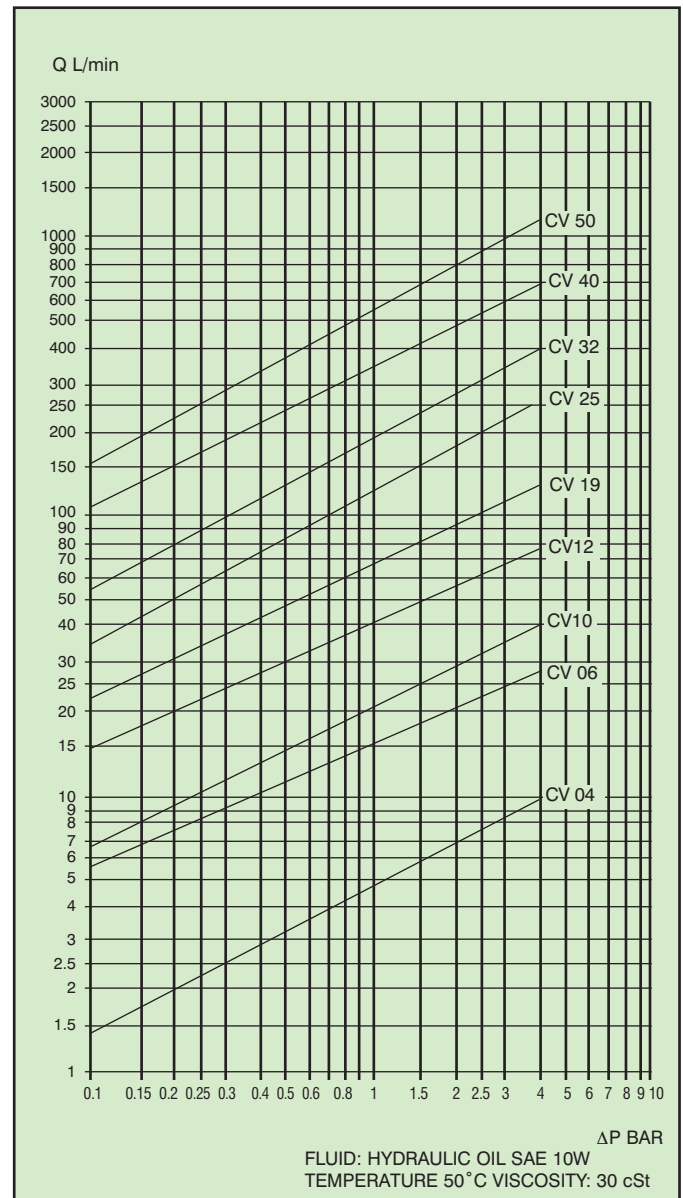
As a pressure sequence valve by changing the internal spring to an appropriate 'cracking point' value.  
For flow restrictor check valves a central bleed hole can be provided, sized to customer requirements.

### ORDER CODES

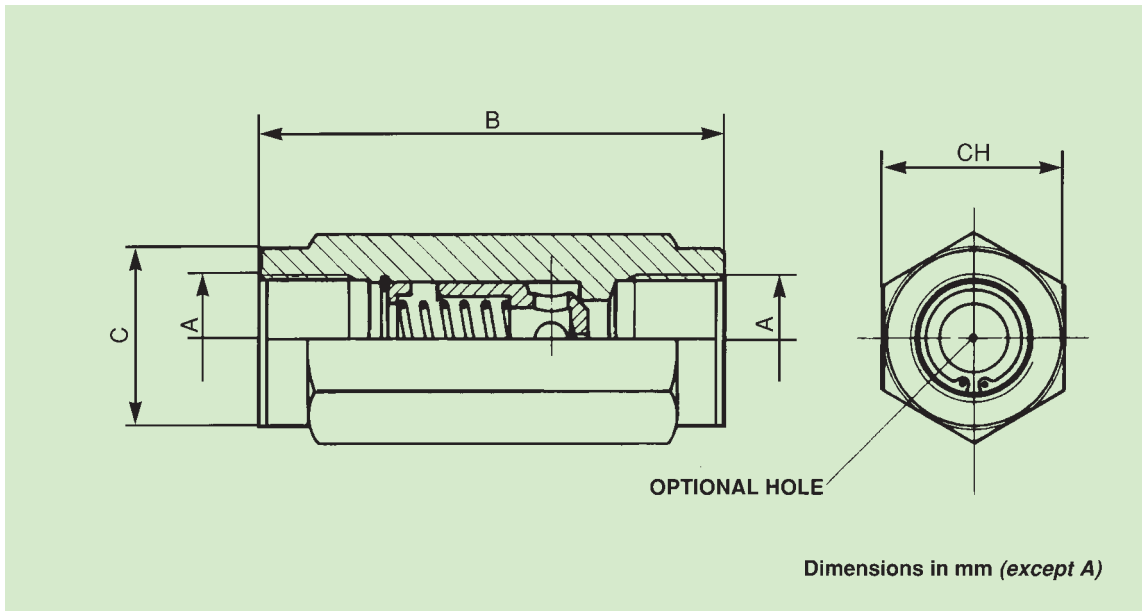
<b>CV 06 - 04 G - 04 G 0.35</b>	
<p><b>CV</b> Check Valve</p> <p><b>Body Size</b> 04 = 1/8"    25 = 1" 06 = 1/4"    32 = 1 1/4" 10 = 3/8"    40 = 1 1/2" 12 = 1/2"    50 = 2" 19 = 3/4"</p> <p><b>Inlet thread size</b> (dash system) 02 = 1/8"    16 = 1" 04 = 1/4"    20 = 1 1/4" 06 = 3/8"    24 = 1 1/2" 08 = 1/2"    32 = 2" 12 = 3/4"</p> <p><b>Inlet thread form</b> G = BSP P N = NPT S = SAE</p>	<p><b>Cracking pressure</b> 0.35 bar 4.5 bar</p> <p><b>Outlet thread form</b> G = BSP P N = NPT S = SAE</p> <p><b>Outlet thread size</b> (dash system) 02 = 1/8" 04 = 1/4" 06 = 3/8" 08 = 1/2" 12 = 3/4" 16 = 1" 20 = 1 1/4" 24 = 1 1/2" 32 = 2"</p>



### PRESSURE DROP CHARACTERISTICS



## CV SERIES, CHECK VALVES



### DIMENSIONS AND PRESSURE RATINGS

Body Size	Nominal Diameter	Maximum working pressure (bar)	A*	B	C	CH
04	5	400	1/8"	50	12.5	13
06	6.3	400	1/4"	60	18.5	19
10	10	400	3/8"	70	23.5	24
12	12	350	1/2"	77	29.5	30
19	20	350	3/4"	90	35.5	36
25	25	350	1"	106	44.5	45
32	31.5	250	1 1/4"	125	54.5	55
40	40	250	1 1/2"	140	64.5	65
50	50	250	2"	160	74.5	75

\* BSP, NPT and SAE are standard. Other thread forms available on request.  
Dimensions in mm (except A).

**All dimensions shown are for guidance only, if critical contact  
Holmbury Technical Department**