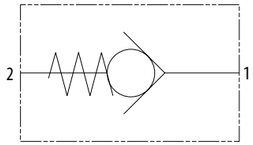
# CV2-20 - Check valve

**Direct acting, poppet type**
**227 L/min (60 USgpm) • 210 bar (3000 psi)**



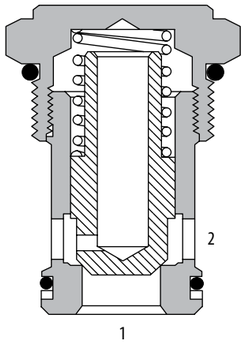

## Operation

This is a poppet type, direct acting screw-in cartridge check valve allowing free flow from port 1 to 2.

## Features

Hardened and ground working parts to limit leakage and extend service life. Robust design with a 210 bar (3000 psi) max pressure rating.

## Sectional view




## Performance data

**Ratings and specifications**

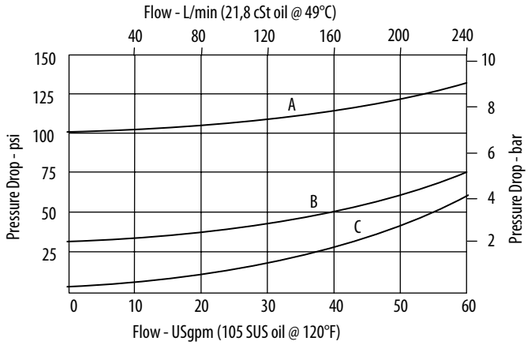
| | | |
|---|---|---|
| *Performance data is typical with fluid at 21,8 cST (105 SUS) and 49°C (120°F)* | | |
| Typical application pressure (all ports) | | 210 bar (3000 psi) |
| Cartridge fatigue pressure (infinite life) | | 210 bar (3000 psi) |
| Rated flow | | 227 L/min (60 USgpm) |
| Free flow cracking pressures @ 1 L/min (0.25 USgpm) | **5** - 0,34 bar<br>**15** - 1,03 bar<br>**30** - 2,07 bar<br>**60** - 4,14 bar<br>**100** - 6,90 bar | (5 psi)<br>(15 psi)<br>(30 psi)<br>(60 psi)<br>(100 psi) |
| Internal leakage, Port 2 to 1 | | 5 drops/min. maximum @ 210 bar (3000 psi) |
| Temperature range | | –40° to 120°C (–40° to 248°F) |
| Cavity | | C-20-2 |
| Fluids | | All general purpose hydraulic fluids such as MIL - H-5606, SAE 10, SAE 20, etc. |
| Filtration | | Cleanliness code 18/**16/13** |
| Standard housing material | | Aluminum |
| Weight, cartridge only | | 0,49 kg (1.09 lbs.) |
| Seal kit | | 889615 (Buna-N)<br>889619 (Viton®) |

Viton is a registered trademark of E.I. DuPont

## Description

This is a poppet type, direct acting screw-in cartridge check valve allowing free flow from port 1 to 2.

## Pressure drop




**A** – CV2-20-P-O-100
**B** – CV2-20-P-O-30
**C** – CV2-20-P-O-5

*Where measurements are critical request certified drawings. We reserve the right to change specifications without notice.*



# CV2-20 - Check valve

**Direct acting, poppet type**
**227 L/min (60 USgpm) • 210 bar (3000 psi)**

## Model code

**CV2 _ 20 (V) _ P _ *** _ *** _ 00**

1 2 3 4 5 6 7

### 1 Function

**CV2** - Check valve

### 2 Size

**20** - 20 size

### 3 Seal material

**Blank** - Buna-N
**V** - Viton

### 4 Style

**P** - Poppet

### 5 Port size

| Code | Port size | Housing number | |
|---|---|---|---|
| | | Aluminum light duty | Aluminum fatigue rated |
| **0** | Cartridge only | | |
| **8B** | 1" BSPP | 02-175464 | – |
| **16T** | SAE 16 | 566409 | – |
| **6G** | 3/4" BSPP | – | 876732 |
| **8G** | 1" BSPP | – | 876734 |
| **12H** | SAE 12 | – | 876733 |
| **16H** | SAE 16 | – | 876735 |

### 6 Free flow cracking pressure

**5** - 0,34 bar (5 psi) Anti-cavitation
**15** - 1,03 bar (15 psi)
**30** - 2,07 bar (30 psi)
**60** - 4,14 bar (60 psi)
**100** - 6,90 bar (100 psi)

### 7 Special features

**00** - None
(Only required if valve has special features, omitted if "00")

## Dimensions

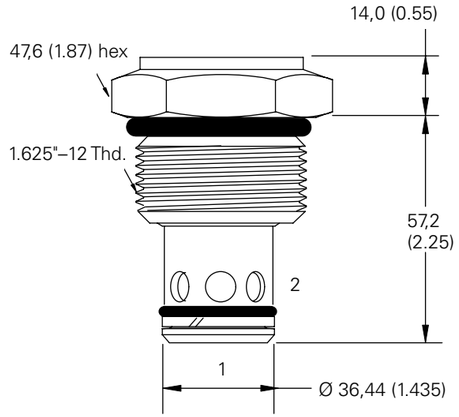
mm (inch)

**Note:** Torque cartridge in aluminum housing 128-155 Nm (95-115 ft lbs)

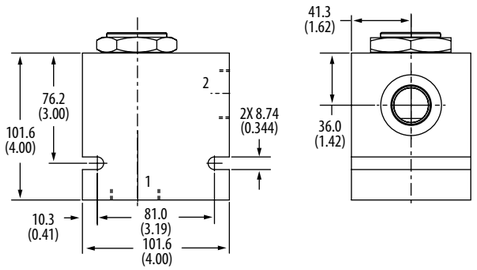
**Cartridge only**

Basic code

CV2




**Installation drawing (Aluminum)**




*Where measurements are critical request certified drawings. We reserve the right to change specifications without notice.*