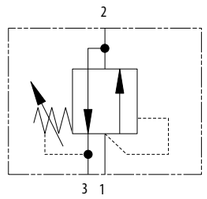
# PSV5-10 - Pressure sequence valve

**Spool, direct acting, normally closed, internal pilot, external drain**
**8 L/min (2 USgpm) • 210 bar (3000 psi)**




## Operation

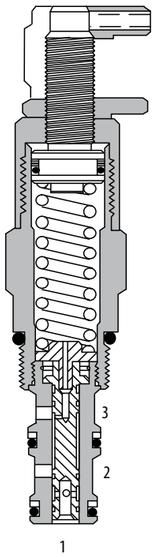
In the normal condition port 2 is open to the tank port 3 and port 1 is blocked.

When the pressure on port 1 exceeds the setting of the valve port 1 opens to port 2 and port 3 is blocked but must always be referenced to tank.

## Features

Cartridge design enabling speedy servicing when mounted in a body or in a composite manifold.

## Sectional view




## Description

Direct acting sequence valves are ideal for diverting oil to a second circuit at a predetermined pressure as in clamp and drill circuits, or as a relief where the back pressure varies. By taking the drain line directly to tank, back pressure effects are negated. In the valves normal position the outlet is drained to tank.

## Performance data

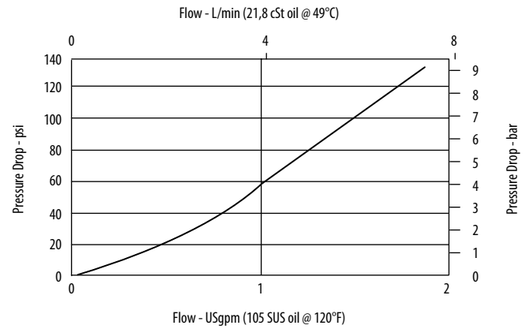
**Ratings and specifications**

| *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) | 190 bar (2800 psi) |
| Maximum sequence pressure | 380 bar (5600 psi) |
| Rated flow | 8 L/min (2 USgpm) |
| Cavity | C-10–3 |
| Standard housing materials | Aluminum or steel |
| Temperature range | -40° to 120°C (-40° to 248°F) |
| Fluids | All general purpose hydraulic fluids such as: MIL–H–5606, SAE 10, SAE 20, etc. |
| Filtration | Cleanliness Code 18/**16/13** |
| Weight cartridge only | 0,24 kg (0.53 lbs) |
| Seal kits | 565804 Buna–N<br>889599 Viton® |

Viton is a registered trademark of E.I. DuPont

## Pressure drop curve

Cartridge only




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



PSV5-10 - Pressure sequence valve

Spool, direct acting, normally closed, internal pilot, external drain
8 L/min (2 USgpm) • 210 bar (3000 psi)

## Model code

**PSV5 – 10 (V) – * – (*) – ** – **/ ** – 00**

1 2 3 4 5 6 7 8 9

### 1 Function

**PSV5 -** Pressure sequence valve

### 2 Size

**10 -** 10 size

### 3 Seal material

**Blank -** Buna-N
**V -** Viton®

### 4 Adjustment

**C -** Cap
**K -** Knob
**I -** Internal
**F -** Factory set
**S -** Screw

### 5 Valve housing material

**Blank -** Aluminum
**S -** Steel

### 6 Port size

**0** - Cartridge only

| Code | Port size | Housing number | | |
|---|---|---|---|---|
| | | Aluminum light duty | Aluminum fatigue rated | Steel fatigue rated |
| **3B** | 3/8" BSPP | 02–173358 | – | – |
| **2G** | 1/4" BSPP | – | 876705 | 02–175127 |
| **3G** | 3/8" BSPP | – | 876714 | 02–175128 |
| **6H** | SAE 6 | – | 876704 | – |
| **8H** | SAE 8 | – | 876711 | – |
| **6T** | SAE 6 | 566162 | – | 02–175124 |
| **8T** | SAE 8 | – | – | 02–175125 |

See section J for housing.

### 7 Sequence pressure range

**Note:** Code based on pressure in psi.

**5 -** 3,5-30 bar (50-450 psi)
**9 -** 7-62 bar (100-900 psi)
**14 -** 14-95 bar (200-1400 psi)
**28 -** 20-190 bar (300-2800 psi)
**56 -** 35-380 bar (500-5600 psi)

### 8 Setting pressure

Within ranges in 7

**Blank -** Normal factory setting at approximate mid-range. User requested settings in 3,45 bar (50 psi)steps, Coded as in the following examples:

**10 -** 70 bar (1000 psi)
**10.5 -** 72,4 bar (1050 psi)

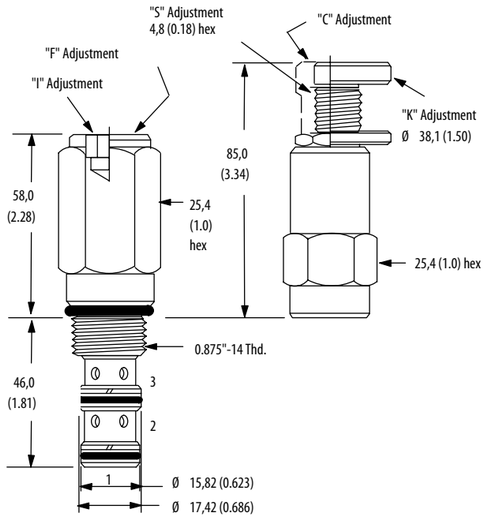
### 9 Special features

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

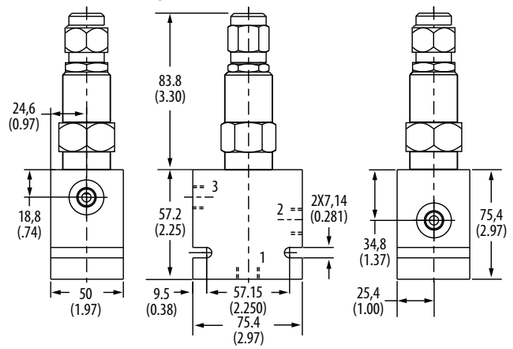
## Dimensions

mm (inch)

### Cartridge only




### Installation drawing (Aluminum)




Torque cartridge in housing
**A** - 47-54 Nm (35-40 ft. lbs)
**S** - 68-75 Nm (50-55 ft. lbs)

**⚠ Warning**

Aluminum housings can be used for pressures up to 210 bar (3000 psi). Steel housings must be used for operating pressures above 210 bar (3000 psi).

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