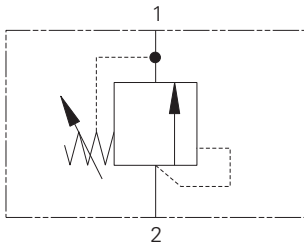


RV8-8 - Relief valve

Poppet, differential area
30 L/min (8 USgpm) • 350 bar (5000 psi)



Operation

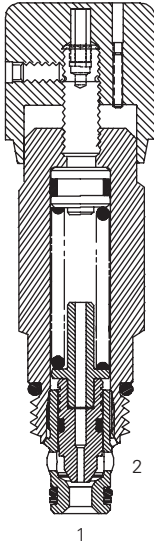
The RV8-8 remains closed until the predetermined setting is reached at port 2.

The force created by the pressure acting on the differential poppet area lifts the poppet off the seat and allows flow from port 2 to port 1.

Features

Hardened and ground working parts. Low leakage poppet design. High flow rate for a compact cartridge.

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) | 350 bar (5000 psi) |
| Cartridge fatigue pressure (infinite life) | 280 bar (4000 psi) |
| Rated flow | 30 L/min (8 USgpm) |
| Cracking pressure ranges | 15: 3,4-100 bar (50-1500 psi) 30: 70-210 bar (1000-3000 psi) 50: 70-350 bar (1000-5000 psi) |
| Internal leakage, port 2 to port 1 | Less than 5 drops/min @ 80% of cracking pressure |
| Temperature range | -40° to 120°C (-40° to 248°F) |
| Cavity | C-8-2 |
| Fluids | All general purpose hydraulic fluids such as: MIL-H-5606, SAE 10, SAE 20 etc. |
| Filtration | Cleanliness code 18/16/13 |
| Housing material (standard) | Aluminum or steel |
| Weight including coil | 0,20 kg (0.43 lbs) |
| Seal kit | 02-165874 (Buna-N), 02-165877 (Viton®) |

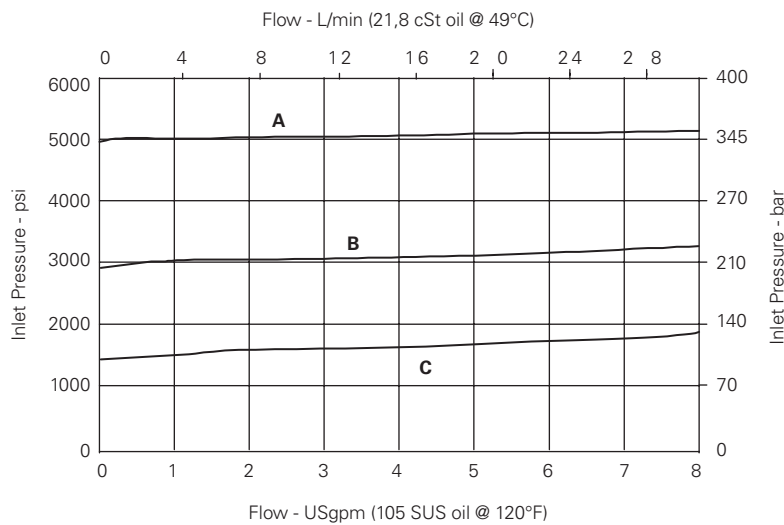
Viton is a registered trademark of E.I. DuPont

Description

The RV8-8 is a direct acting differential area, poppet type, screw-in cartridge relief valve.

Pressure drop

Cartridge only



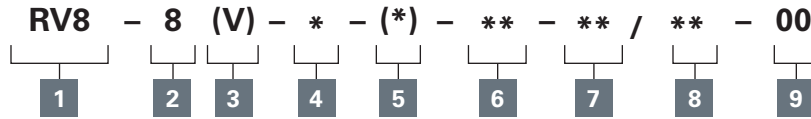
- A** - 50 spring
- B** - 30 spring
- C** - 15 spring

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

RV8-8 - Relief valve

Poppet, differential area
30 L/min (8 USgpm) • 350 bar (5000 psi)

Model code



1 Function

RV8- Relief valve

2 Size

8 - 8 size

3 Seal material

Blank - Buna-N
V - Viton®

4 Adjustment

C - Cap
K - Knob
S - Screw

5 Valve housing material

Omit for cartridge only
S - Steel
A - Aluminum

For valve dimensions with manual override option installed see page A-980.

6 Port size

| Code | Port size | Housing number | |
|------|----------------|------------------------|---------------------|
| | | Aluminum Fatigue rated | Steel Fatigue rated |
| 0 | Cartridge only | | |
| 4T | SAE 4 | 02-160730 | 02-160736 |
| 6T | SAE 6 | 02-160731 | 02-160737 |
| 8T | SAE 8 | 02-160732 | 02-160738 |
| 2G | 1/4" BSPP | 02-160727 | 02-160733 |
| 3G | 3/8" BSPP | 02-160728 | 02-160734 |

*Light duty housing.
See section J for housing details.

7 Cracking pressure ranges

15 - 3,4-100 bar (50-1500 psi)
30 - 70-210 bar (1000-3000 psi)
50 - 70-350 bar (1000-5000 psi)

8 Pressure setting

Optional - Specify in 100 psi increments. If not specified, set at:

15 - 52 bar (750 psi)
30 - 100 bar (1500 psi)
50 - 175 bar (25000 psi)

9 Special features

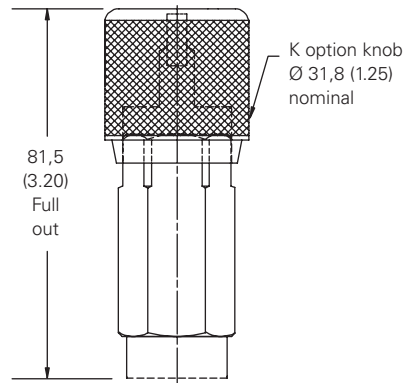
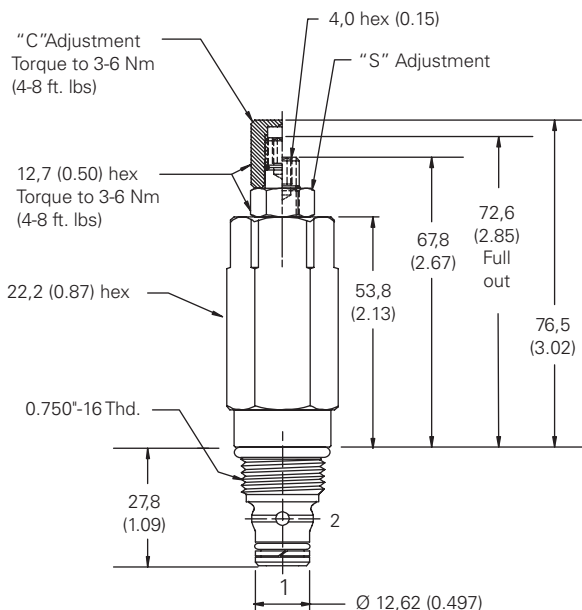
00 - None
(Only required if valve has special features, omitted if "00.")
Note: Use J series, 23 W coils with this solenoid valve.

Dimensions

mm (inch)

Torque cartridge in aluminum or steel housing 34-41 Nm (25-30 ft lbs)

Cartridge only



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).

Warning

Maintain 5-8 Nm (4-6 ft lbs) maximum torque on valve tube nut. Over tightening may cause valve failure.

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