

35R10-26 TYPE Relief, Pilot-Operated Spool

| Max. pressure (bar / psi) | 240/3500 |
|---------------------------|------------|
| Peak flow (L/min / gpm) | 113.6 / 30 |

4.9

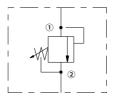
Features

- Adjustments cannot be backed out of the valve
- Optional spring ranges to 240 bar (3500 psi)
- · Fast, smooth response to pressure surges
- ·Industry common cavity
- Hardened poppet and cage for long life

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Symbol



Description

A screw-in, cartridge-style, pilot-operated (two-stage), spool-type hydraulic relief valve, intended for use as a pressure limiting device in demanding hydraulic circuits which require fast response and low hysteresis.

Operation

The 35R10-26 blocks flow from ① to ② until sufficient pressure is present at ① to force the piloting relief off its seat, allowing the main (second stage) spool to shift, opening ① to ③.

The cartridge offers smooth transition in response to load changes in demanding hydraulic circuits.

NOTE: The 35R10-26 cannot be used in crossover relief applications.

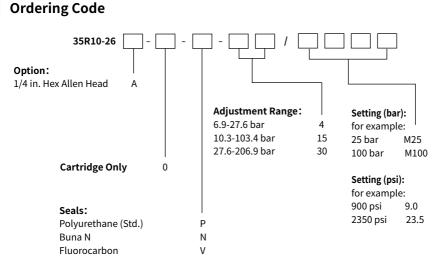


Cartridge:

Weight: 0.25 kg; Steel with hardened work surfaces. Zinc-plated exposed surfaces; Polyurethane (Std.) seal.

Standard Ported Body:

Anodized high-strength aluminum alloy, rated to 240 bar; Ductile iron and steel bodies available; Dimensions may differ, consult factory.





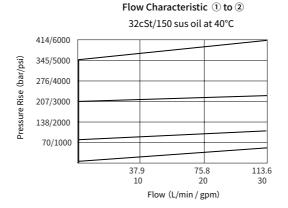
Technical Data

| Max. pressure | 240 bar (3500 psi) |
|-------------------------------|--|
| Peak flow | 113.6 L/min (30 gpm) |
| Internal leakage | ≤ 115 ml/min @ 85% of nominal setting |
| Crack pressure defined | bar (psi) evident at 7.6 L/min attained |
| Reseat pressure | Nominal 90% of crack pressure |
| Standard spring ranges | See the table "Spring Model Code" |
| Cavity | VC10-2 (See technical reference) |
| Fluid | Mineral-based or synthetics with lubricating properties |
| Viscosity range | 7.4 to 420 mm ² /s |
| Temperature range | -40 to 100 °C (Buna N seals) |
| | -54 to 107 °C (Polyurethane seals) |
| | -26 to 204 °C (Fluorocarbon seals) |
| Degree of fluid contamination | The minimum pollution level is ISO4406 level 18/16/13, and level 15/13/11 is recommended to prolong the service life |

| Spring Model Code | Nominal Factory Rating |
|-------------------|-------------------------------|
| 4 | 6.9-27.6 bar (100-400 psi) |
| 15 | 10.3-103.4 bar (150-1500 psi) |
| 30 | 27.6-206.9 bar (400-3000 psi) |

* Due to manufacturing tolerances, it may be possible to adjust the valve either lower or higher than the nominal ratings shown below.

Performance (Cartridge Only)



Dimensions

