

Relief, pilot operated spool type

Common cavity, Size 12

VSPN-12A

04.12.10 - X - 57 - Z

RE 18318-09

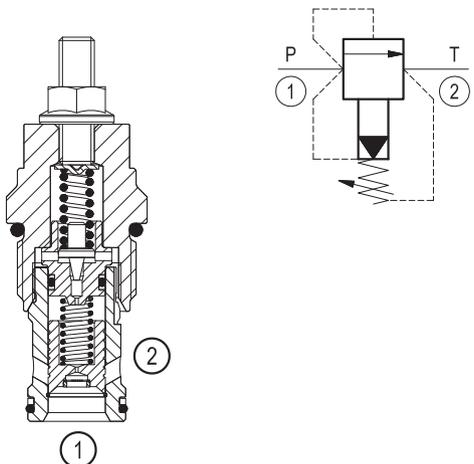
Edition: 10.2018

Replaces: 03.2016



Description

Flow is blocked from 1 to 2 until pressure increases to meet the selected valve setting, lifting the conical, pilot-stage poppet from its seat. This action exhausts oil above the main-stage piston (spool type), allowing it to shift and provide relief flow through 2 to tank. Pressure at 2 is additive to the relief setting of the valve.

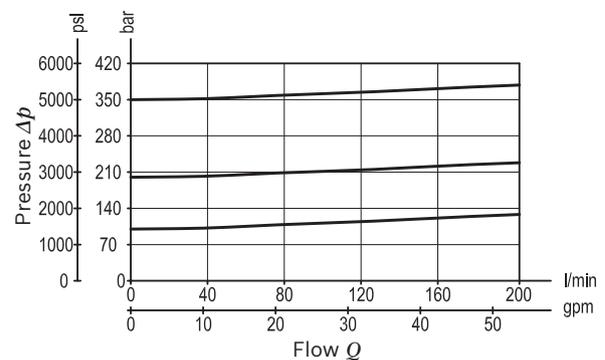


Technical data

| | |
|---|--|
| Max. operating pressure port 1 (P) | 420 bar (6000 psi) |
| Max. pressure admitted port 2 (T) | 140 bar (2000 psi) |
| Flow range | 5 - 200 l/min (1.3 - 53 gpm) |
| Max. internal leakage ¹⁾ | 350 cm ³ /min. (21 cu.in./min.) |
| Fluid temperature range | -30 to 100 °C (-22 to 212 °F) |
| Installation torque | 81 - 95 Nm (60 - 70 ft-lbs) |
| Weight | 0.2 kg (0.5 lbs) |
| Cavity | CA-12A-2N (see data sheet 18325-70) |
| Lines bodies and standard assemblies | Please refer to section "Hydraulic integrated circuit" or consult factory |
| Seal kit ²⁾ | Code: RG12A2010520100 material no: R901111377 |
| Fluids | Mineral-based or synthetics with lubricating properties at viscosities of 10 to 500 mm ² /s (cSt) |
| Recommended degree of fluid contamination | Nominal value max. 10µm (NAS 8) / ISO 4406 19/17/14 |
| Installation position | No restrictions |
| Other Technical Data | See data sheet 18350-50 |

- 1) Measured at 200 bar (2900 psi)
- 2) Only external seals for 10 valves

Characteristic curve



Ordering code

| | | | | | |
|-----------------|----------|-----------|----------|-----------|----------|
| 04.12.10 | X | 57 | Z | 00 | * |
|-----------------|----------|-----------|----------|-----------|----------|

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Adjustments

03 Leakproof hex. socket screw

57 Common cavity, Size 12

Series 0/A to L
unchanged performances and dimensions

Version and options standard

| SPRINGS | | | |
|-----------|--------------------------------|--|--|
| | Adj. press. range bar (psi) | Pressure increase bar/turn (psi/turn) | Std. setting bar (psi) Q=5 l/min |
| 10 | 35-140 (500-2000) | 48 (696) | 100 (1450) |
| 20 | 70-280 (1000-4000) | 88 (1276) | 200 (2900) |
| 35 | 140-420 (2000-6000) | 140 (2030) | 350 (5000) |

Note: Special settings available. Contact factory authorized representative for ordering code.

Preferred types

| Type | Material number |
|-----------------|-----------------|
| 041210035710000 | R930000334 |
| 041210035720000 | R930000335 |
| 041210035735000 | R930000336 |

| Type | Material number |
|------|-----------------|
| | |
| | |
| | |

Dimensions

