

# Pressure reducing, pilot operated spool type

## Common cavity, Size 12

VRPP-12A

04.93.08 - X - 57 - Z

**RE 18318-51**

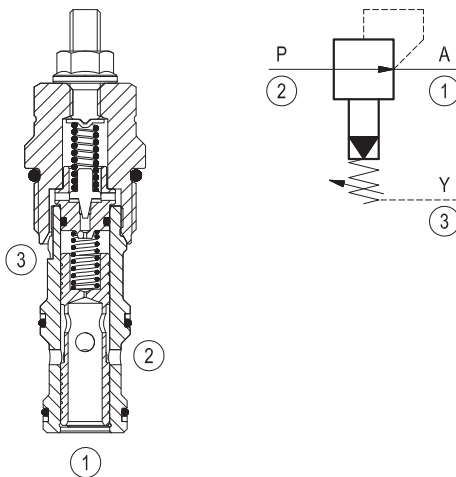
Edition: 01.2019

Replaces: 11.2018



### Description

Initially, flow passes freely from 2 to 1. When the pressure at 1 exceeds the pressure setting, the valve acts to restrict input flow at 2. This increases the pressure drop through the valve and maintains consistent pressure at 1. The spring chamber is drained at 3 to prevent a build-up of back-pressure against the spool.

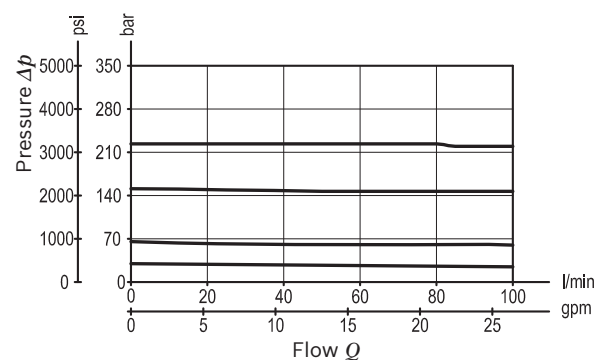


### Technical data

|                                           |                                                                                                              |
|-------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| Max. operating pressure port 2 (P)        | 350 bar (5000 psi)                                                                                           |
| Max. pressure admitted port 1 (A)         | 280 bar (4000 psi)                                                                                           |
| Max. flow                                 | 100 l/min (26 gpm)                                                                                           |
| Standard internal pilot orifice diameter  | 0.6 mm                                                                                                       |
| Fluid temperature range                   | -30 to 100 °C (-22 to 212 °F)                                                                                |
| Installation torque                       | 81 - 95 Nm (60 - 70 ft-lbs)                                                                                  |
| Weight                                    | 0.4 kg (0.88 lbs)                                                                                            |
| MTTFD                                     | 150 years see RE18350-51                                                                                     |
| Cavity                                    | CA-12A-3N (see data sheet 18325-70)                                                                          |
| Lines bodies and standard assemblies      | Please refer to section "Hydraulic integrated circuit" or consult factory                                    |
| Seal kit <sup>1)</sup>                    | Code: RG12A3010520100<br>material no: R930000941                                                             |
| Fluids                                    | Mineral-based or synthetics with lubricating properties at viscosities of 10 to 500 mm <sup>2</sup> /s (cSt) |
| Recommended degree of fluid contamination | Nominal value max. 10µm (NAS 8) / ISO 4406 20/18/15                                                          |
| Installation position                     | No restrictions                                                                                              |
| Other Technical Data                      | See data sheet 18350-50                                                                                      |

1) Only external seals for 10 valves

### Characteristic curve



Ordering code

|          |   |    |   |    |   |
|----------|---|----|---|----|---|
| 04.93.08 | X | 57 | Z | 00 | * |
|----------|---|----|---|----|---|

Series 0/A to L  
unchanged performances and dimensions

Version and options standard

Pressure reducing,  
pilot operated spool type

Adjustments

03 Leakproof hex. socket screw

57 Common cavity, Size 12

| SPRINGS |                                |                                          |                                           |
|---------|--------------------------------|------------------------------------------|-------------------------------------------|
|         | Adj. press. range<br>bar (psi) | Pressure increase<br>bar/turn (psi/turn) | Std. setting<br>bar (psi)<br>(reduc mode) |
| 05      | 20-60 (290-870)                | 32 (464)                                 | 50 (725)                                  |
| 10      | 35-140 (508-2000)              | 48 (696)                                 | 100 (1450)                                |
| 20      | 70-280 (1000-4000)             | 88 (1276)                                | 200 (2900)                                |
| 35      | 140-350 (2000-5000)            | 140 (2030)                               | 280 (4000)                                |

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

Preferred types

| Type            | Material number |
|-----------------|-----------------|
| 049308035705000 | R930069792      |
| 049308035710000 | R901109737      |
| 049308035720000 | R901109738      |

| Type            | Material number |
|-----------------|-----------------|
| 049308035735000 | R901109739      |
|                 |                 |
|                 |                 |

Dimensions

