

Relief, pilot operated spool type

Common cavity, Size 10

VSPN-10A

04.12.08 - X - 85 - Z

RE 18318-08

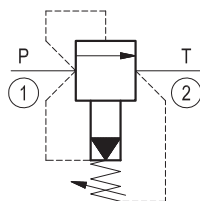
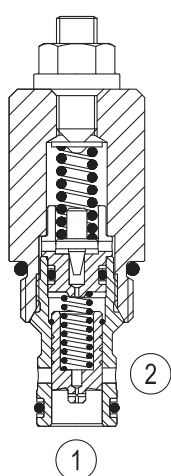
Edition: 03.2016

Replaces: 11.2015



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

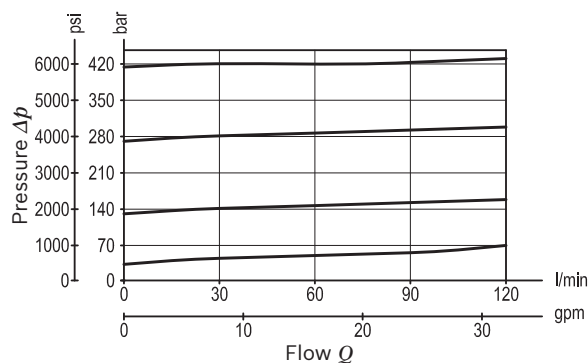
Max. operating pressure port 1 (P)	420 bar (6000 psi)
Max. pressure admitted port 2 (T)	350 bar (5000 psi) for version 03 210 bar (3000 psi) for version 04
Flow range	3 - 120 l/min (1 - 32 gpm)
Max. internal leakage ¹⁾	200 cm ³ /min. (12 cu.in./min.)
Fluid temperature range	-30 to 100 °C (-22 to 212 °F)
Installation torque	41 - 47 Nm (30 - 35 ft-lbs)
Weight ²⁾	0.21 kg (0.46 lbs)
Cavity	CA-10A-2N (see data sheet 18325-70)
Lines bodies and standard assemblies	Please refer to section "Hydraulic integrated circuit" or consult factory
MTTFd	150 years see data sheet 18350-51
Seal kit ³⁾	Code: RG10A2010530100 material no: R901111366
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) Standard version X=03 type

3) Only external seals for 10 valves

Characteristic curve



Ordering code

04.12.08	X	85	Z	00	*
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Adjustments

03 Leakproof hex. socket screw

04 Handknob and locknut

85 Common cavity, Size 10

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
for X= 03	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)
for X= 04	35	35-350 (500-5000)	68 (986)	350 (5000)

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

Preferred types

Type	Material number
041208038510000	R901097726
041208038520000	R901097722
041208038535000	R901104103
041208048535000	R901104104

Type	Material number

Dimensions

