rexroth
A Bosch Company

Priority unloading pilot operated

Common cavity, Size 08

VMSN-08A

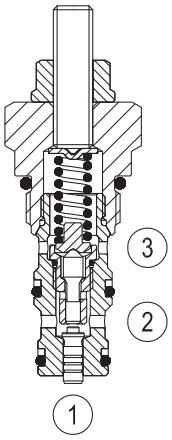
04.75.21 - X - 56 - Z

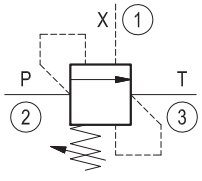
RE 18318-16
Edition: 03.2016
Replaces: 12.2011

Description
Flow is blocked from 2 to 3 until pressure increases to meet the selected valve setting, lifting the small, pilot-stage poppet from its seat. This action exhausts oil above the main-stage piston (spool type), allowing it to shift fully and unload flow from 2 through 3 with minimal pressure drop. Similarly, when remote pilot pressure at 1 exceeds the pressure setting, a secondary piston lifts the pilot-stage poppet from its seat, again exhausting fluid from 2 through 3.

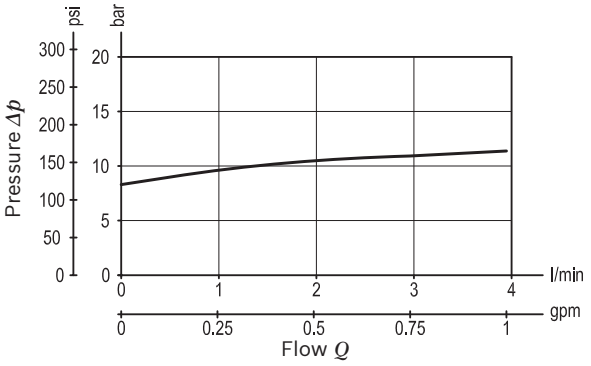
Technical data	
Max. operating pressure port 1-2	350 bar (5000 psi)
Max. pressure admitted port 3	50 bar (750 psi)
Max. flow	3 l/min (1 gpm)
Max. internal leakage[1)]	15 drops/min.
Fluid temperature range	-30 to 100 °C (-22 to 212 °F)
Installation torque	34 - 41 Nm (25 - 30 ft-lbs)
Weight	0.14 kg (0.31 lbs)
Cavity	CA-08A-3N (see data sheet 18325-70)
Lines bodies and standard assemblies	Please refer to section “Hydraulic integrated circuit” or consult factory
Seal kit[2)]	Code: RG08A3010520100
	material no: R930000861
Fluids	Mineral-based or synthetics with lubricating properties at viscosities of 10 to 500 mm²/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) At 80% of pressure setting
2) Only external seals for 10 valves





Characteristic curve



Ordering code

04.75.21	X	56	Z	00	*

Priority unloading pilot operated

Differential unload / reload

05 Re-seat at (57 ± 2.5) % of pressure setting

06 Re-seat at (66 ± 2.5) % of pressure setting

08 Re-seat at (80 ± 2.5) % of pressure setting

56 Common cavity, Size 08

Version and options standard

Series 0/A to L
unchanged performances and dimensions

	SPRINGS	
	Adj. press. range bar (psi)	Std. setting bar (psi) Q=1 l/min.
03 *	20-40 (290-580)	30 (435)
05 *	35-70 (500-1000)	50 (725)
10 *	70-140 (1000-2000)	100 (1450)
20	105-210 (1500-3000)	200 (2900)
35	175-350 (2500-5000)	350 (5000)

***** Available only for x=05 and x=06

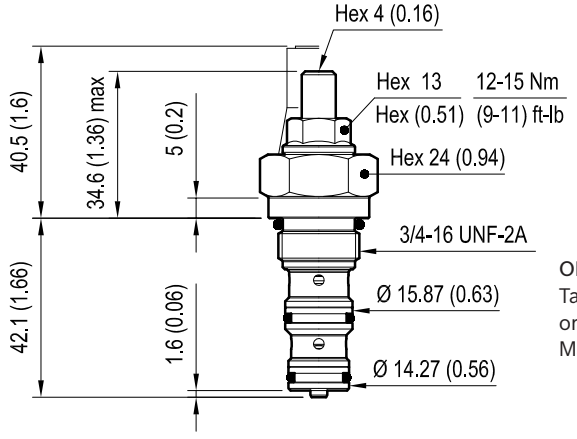
Note: Special settings available. Contact factory authorized representative for ordering code.

Preferred types

Type	Material number
047521055603000	R930006649
047521055605000	R930006650
047521055610000	R930006651
047521055620000	R930006647
047521055635000	R930006648
047521065603000	R901109763
047521065605000	R901109764

Type	Material number
047521065610000	R901109765
047521065620000	R901109766
047521065635000	R901109767
047521085620000	R930055341
047521085635000	R930055303

Dimensions



OPTION
Tamper resistant cap
ordering code: 11.04.23.002
Mat. no. R930000752

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