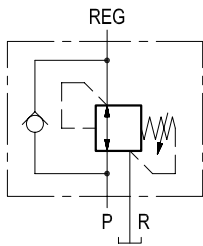


RE 18309-73/04.10 1/2
Replaces: RE 00171/02.07

Pressure reducing and relieving, direct acting spool type, with free flow check valve

VRP-R-VU

05.90.19 - X - Y - Z

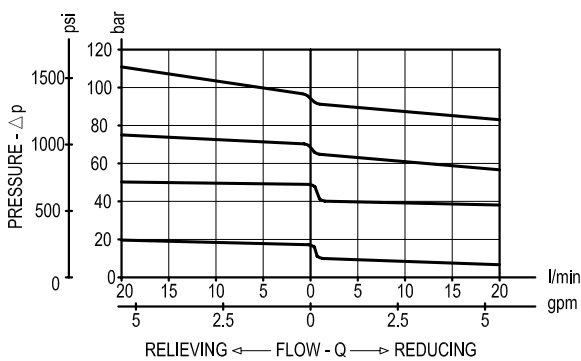


P = Inlet
REG = A (Reduced pressure)
R = T (Tank)

Description

Initially, flow passes freely from P to REG. When the pressure at REG exceeds the pressure setting, the valve acts to restrict input flow at P. This increases the pressure drop through the valve and maintains consistent pressure at REG. The spring chamber is drained to prevent a build-up of back-pressure against the spool. Additionally, if pressure at REG rises above the pressure setting, flow is relieved to R (Tank) until the setting is re-attained. A check valve allows quick emptying of REGULATED circuit when inlet pressure drops low.

Performance



Technical data

Hydraulic

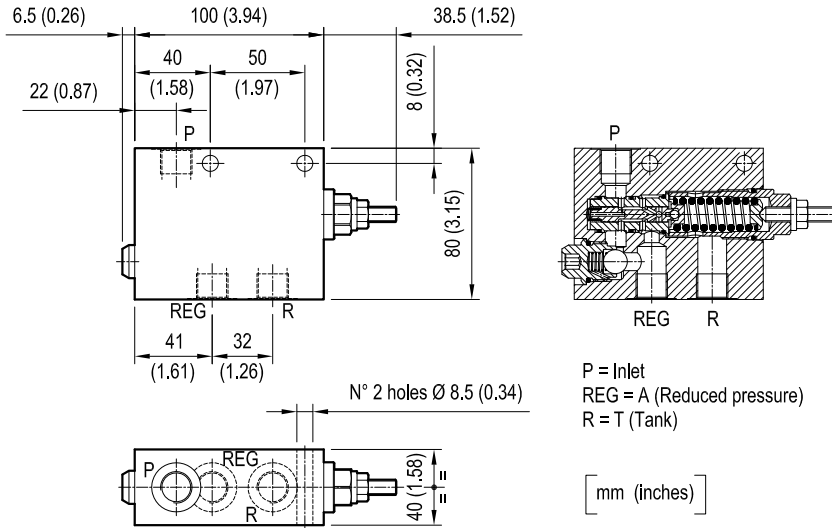
Max. operating pressure	bar (psi)	210 (3000)
Max. flow	l/min (gpm)	20 (5)
Max leakage: 10 cc/min (0.6 in ³ /min) at 90% of pressure setting.		

General

Manifold material	Aluminium	
Note: aluminium bodies are often strong enough for operating pressures exceeding 210 bar (3000 psi), depending from the fatigue life expected in the specific application. If in doubt, consult our Service Network.		
Weight	kg (lbs)	1 (2.21)
Fluid temperature range	°C (°F)	between -30 (-22) and +100 (212)
Other technical data	see data sheet RE 18350-50	

Note: for applications outside these parameters, please consult us.

Dimensions




Ordering code

05.90.19	X	Y	Z
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Pressure reducing and relieving,
direct acting spool type,
free flow check valve

Adjustments

= 03 Leakproof hex. socket screw 

Port sizes	P	R	REG
= 02	G 3/8	G 3/8	G 3/8

SPRINGS

	Adj. pressure range bar (psi)	Pres. increase bar/turn (psi/turn)	Std. setting Q=5 (l/min.) bar (psi)
= 02	2-21 (30-305)	3 (44)	10 (145)
= 04	3-42 (44-610)	5 (73)	20 (290)
= 06	7-63 (102-914)	8 (116)	30 (435)
= 10	11-105 (160-1525)	13 (189)	50 (725)

Type	Material number
05901903020200B	R930002573
05901903020400B	R930002574
05901903020600B	R930002575
05901903021000B	R930002576

Type	Material number