

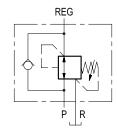
RE 18309-73/04.10 1/2

Replaces: RE 00171/02.07

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

05.90.19 - X - Y - Z **VRP-R-VU** 





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.

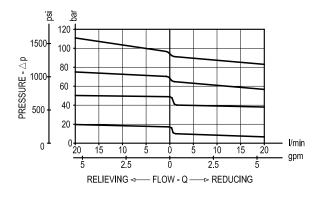
## **Technical data**

#### Hydraulic

Max. operating pressure	bar (psi)	210 (3000)
Max. flow	I/min (gpm)	20 (5)

Max leakage: 10 cc/min (0.6 in<sup>3</sup>/min) at 90% of pressure setting.

#### **Performance**

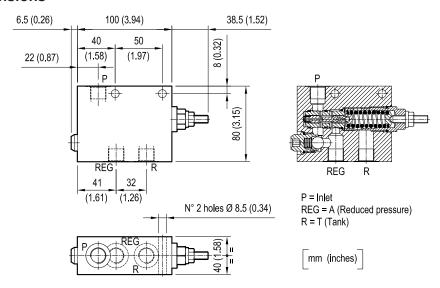


#### General

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**



Ζ

### Ordering code

		05.90.1	9	Х	Υ
Pressure reducing and relieving, direct acting spool type, free flow check valve					
Adjustments = 03 Leakproof hex. socket screw					
	<u>'</u>				
Port sizes	Р	R		REG	
= 02	G 3/8	G 3/8		G 3/8	

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

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

Туре	Material number

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Subject to change.