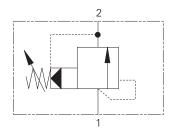
## RV5-10 - Relief Valve

Spool, pilot operated 114 L/min (30 USgpm) • 350 bar (5000 psi)

# www:www.salushydraulics.ple-mail:pl@salushydraulics.plshop/sklep:www.sklep.salushydraulics.pl

## Eaton RV5-10



#### Operation

When the inlet pressure exceeds the setting of the valve, the pilot section opens, causing a small flow across the orifice in the main spool.

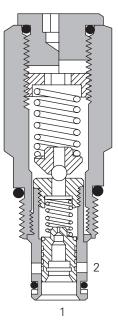
#### The subsequent pressure drop moves the spool against a light spring opening a ring of radial holes in the sleeve, allowing relief flow to tank.

#### Features

High accuracy of pilot operated design. Hardened working parts give long, reliable, trouble-free life. Cartridge construction for installation into your own manifold.

#### Sectional View

Ε



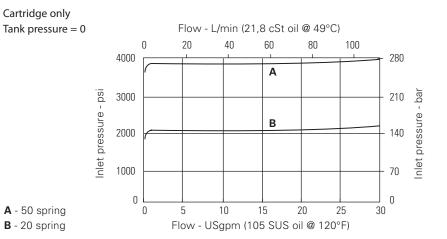
### Performance Data

SUS) and 49° C (120° F)
350 bar (5000 psi)
350 bar (5000 psi)
114 L/min (30 USgpm)
114 cc/min (7cu in/min @ 350 bar (5000 psi)
C-10–2
Aluminum or steel
-40° to 120°C (-40° to 248°F)
All general purpose hydraulic fluids such as: MIL–H–5606, SAE 10, SAE 20, etc.
Cleanliness Code 18/16/13
0,22 kg (0.48 lbs)
565803 Buna–N
566086 Viton*
565806 Buna–N
889627 Viton*

Viton is a registered trademark of E.I. DuPont

**Pressure Override Curves** 

#### Description



Where measurements are critical request certified drawings. We reserve the right to change specifications without notice.



# RV5-10 - Relief Valve

Spool, pilot operated 114 L/min (30 USgpm) • 350 bar (5000 psi)

3G

6H

8H

6T

8T

\*

\*\*

H10H

2K10H

3/8" BSPP

SAE 6

SAE 8

SAE 6

SAE 8

SAE 10\*

SAE 10\*\*

See section J for housing details.

Model Code	RV5	(A) – 10 2 3	(V) – * 4 5	- (S) -	** - **/  7 8	** - 00 9 10	
1 Function   RV5 2 Cage seals   BlankA 3 Size   10 4 Seal Material   BlankV 5 Adjustment   C F K S   6 Valve Housing Material	7 P Code	ort Size Port Size	Housing Num	ber		8 Cracking Pressure Range Note: Code based on pressure	
			Aluminum Light duty	Aluminum Fatigue rated	Steel Fatigue rated	in psi. 3 - 3,4-20 bar (50-300 psi)	
	0	Cartridge only	20 - 7-140 bar (100-20 35 - 17-240 bar (250-3				
	3B	3/8" BSPP	02-175462	-	_	50 - 35-350 bar (500-5000 psi)	
BlankS	2G	1/4" BSPP	-	876702	02–175102		

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566151

876703

876700

876701

4997062-001

4997060-001

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Bolt on, dual cross over relief valve package for Eaton H or T series motors

Bolt on, dual cross over relief valve package for Eaton 2000 series motors

(Note: Two cartridges are installed in this special housing, both are set to the same

crackpressurespecified in model Code position 9, maximum allowed setting is 210

bar (3000 psi), only available with RV5A option and aluminum housing.)

02-175103

02-175100

02-175101

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9 Setting pressure Within ranges in 8 Blank - Normal factory setting at approximate mid-range. User requested settings in 3,45 bar (50 psi) steps, Coded as in the following examples: 10 - 70 bar (1000 psi) 10.5 - 72,4 bar (1050 psi)

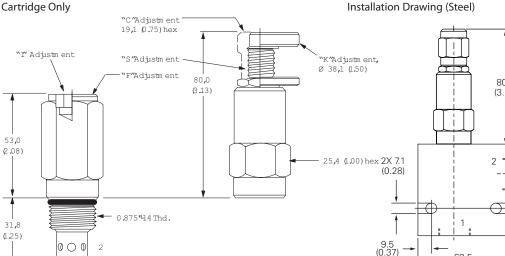
10 Special features 00 - None (Only required if valve has special features, omitted if "00.") SS - 316 Stainless Steel external components



#### WARNING

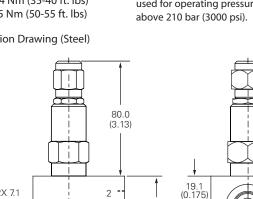
Aluminum housings can be used for

pressures up to 210 bar (3000 psi). Steel housings must be used for operating pressures



A - 47-54 Nm (35-40 ft. lbs) S - 68-75 Nm (50-55 ft. lbs) Installation Drawing (Steel)

Torque cartridge in housing



63.5 (2.50)

22.2

(0.87)

12.7 (0.5)



1

**Dimensions** 

mm (inch)

53,0 (2.08)

31,8 (1.25)



Ø 15,82 (0.623)

Where measurements are critical request certified drawings. We reserve the right to change specifications without notice.

EATON Screw-In Cartridge Valves E-VLSC-MC001-E December 2009

63.5 (2.50)