

Relief Valves

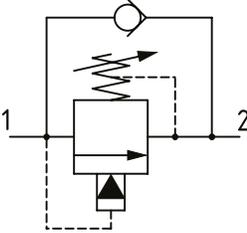
RV2-10

Relief valve, Pilot Operated, Poppet Type with Reverse Free Flow
350 bar [5000 psi] • 114 l/min [30 US gpm]

DESCRIPTION AND OPERATION

This is a pilot operated, poppet type relief valve that relieves from port 1 to port 2 with an integrated reverse flow check valve from port 2 to 1. It can be used to limit pressure in a system or on the work port of a directional valve. It maintains accurate pressure control with constant or varying flows, while also allowing make up flow through in the reverse direction.

SCHEMATIC



PERFORMANCE DATA

Rated pressure	350 bar [5000 psi]
Rated flow*	114 l/min [30 US gpm]
Leakage	10 drops/min @ 80% of pressure setting
Weight	0.22 kg [0.48 lb]
Cavity	SDC10-2

*Minimum recommended flow: 11.4 l/min [3 US gpm]

MODEL CODE

RV2 - 10 - V - C - S - 2G - 20 - 10

Seal Option

Code	Seal Kit
Omit-Buna - N	565803
V-Viton	566086

Adjustment Option

C - Tamper Resistant
 F - Fixed
 I - Internal
 K - Knob
 S - External

Housing Material

Omit - Aluminum/No housing
 S - Steel

Housing

Code	Ports	Housing Model Code		
		Aluminum Standard Duty	Aluminum Heavy Duty	Steel Heavy Duty
0	No Housing			
3B	3/8" BSP	02-175462		
2G	1/4" BSP		876702	02-175102
3G	3/8" BSP		876703	02-175103
6H	#6 SAE		876700	
8H	#8 SAE		876701	
6T	#6 SAE	566151		02-175100
8T	#8 SAE			02-175101

* Aluminum bodies are to be used for pressures less than 210 bar [3000 psi].
 * Additional housings available

Pressure Setting

Code x100 - Pressure setting in psi (50 psi increments within specified Pressure Range)
 XXX-Standard setting (see Pressure Range for value)

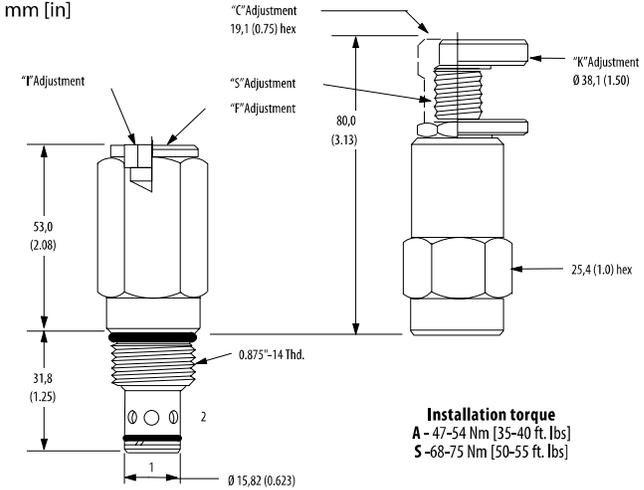
Examples:

Code	Bar	Psi
10	69	[1000]
10.5	72.4	[1050]

Pressure Range

Code	Bar	Psi
3	3.5-20	[50-300]
Standard Setting	10.3	[150]
20	7-140	[100-2000]
Standard Setting	69	[1000]
35	17-240	[250-3500]
Standard Setting	121	[1750]
50	35-350	[500-5000]
Standard Setting	172	[2500]

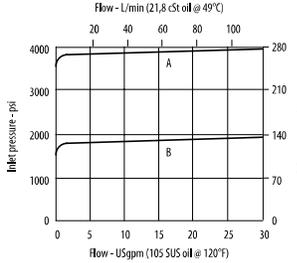
DIMENSIONS



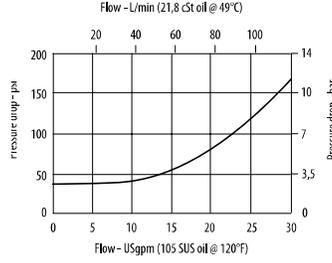
Installation torque
A - 47-54 Nm [35-40 ft. lbs]
S - 68-75 Nm [50-55 ft. lbs]

PERFORMANCE CURVES

Pressure Override



Pressure Drop (2-1)



A - 50 spring • B - 20 spring