

Relief Valves

RV8-10

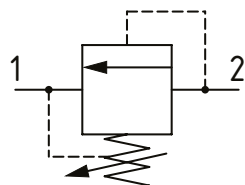
Relief Valve, Differential Area, Poppet Type

350 bar [5000 psi] • 76 l/min [20 US gpm]

DESCRIPTION AND OPERATION

This is a fast acting, differential area, poppet type relief valve that relieves from port 2 to 1. It can be used to protect an actuator from over pressurization or to remove pressure spikes.

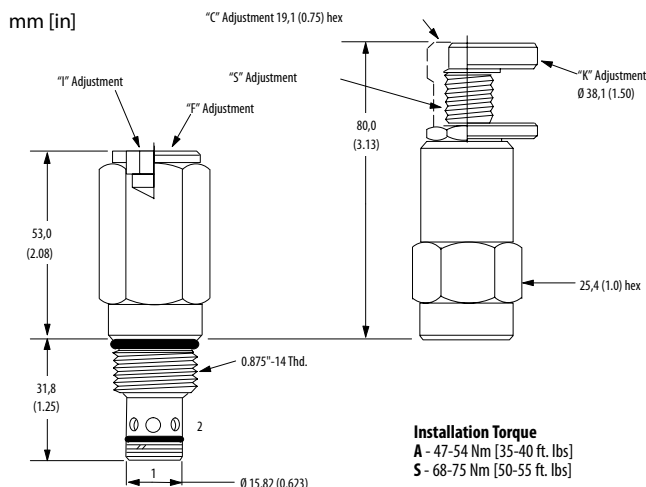
SCHEMATIC



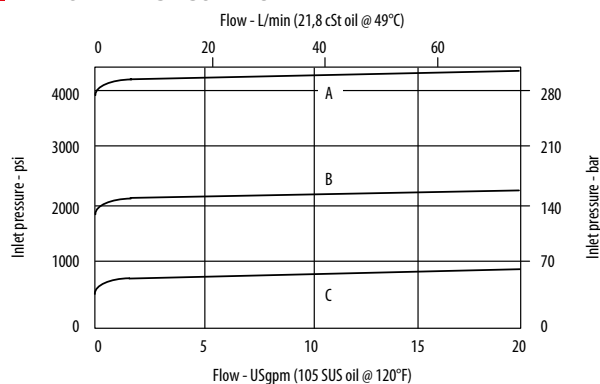
PERFORMANCE DATA

Rated pressure	350 bar [5000 psi]
Rated flow	76 l/min [20 US gpm]
Leakage	0.3 ml/min [5 drops/min] @ 85% of Pressure Setting
Weight	0.22 kg [0.48 lb]
Cavity	SDC10-2

DIMENSIONS



PERFORMANCE CURVES



A - 50 spring • **B** - 25 spring • **C** - 12 spring

MODEL CODE

RV8 - A - 10 - V - C - S - 2G - 4 - 10

Seal Configuration

Omit - Single back-up ring as shown
A - 1/2 thickness back-up ring on each side of o-ring (for cross port relief applications)

Seal Option

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

Adjustment Option

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

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

Pressure Setting

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

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

Pressure Range

Code	Bar	Psi
4	3.45-30	[50-450]
Standard Setting	15.5	[225]
12	7-86	[100-1250]
Standard Setting	43	[625]
25	17-175	[250-2500]
Standard Setting	86	[1250]
50	38-350	[550-5000]
Standard Setting	172	[2500]

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

* Additional housings available