

Relief Valves

RV1-10

Relief valve, Direct Acting, Poppet Type

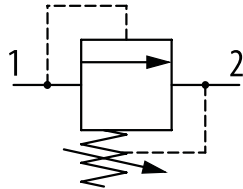
250 bar [3600 psi] • 30 l/min [8 US gpm]



DESCRIPTION AND OPERATION

This is a direct acting, poppet type relief valve that relieves from port 1 to 2. It can be used as a cost-effective main relief or to protect an actuator from over-pressurization.

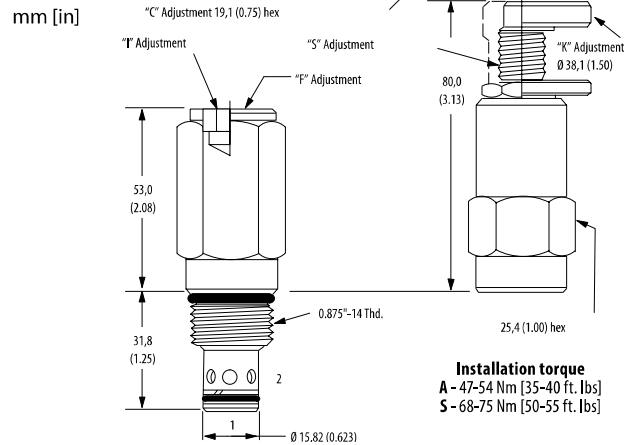
SCHEMATIC



PERFORMANCE DATA

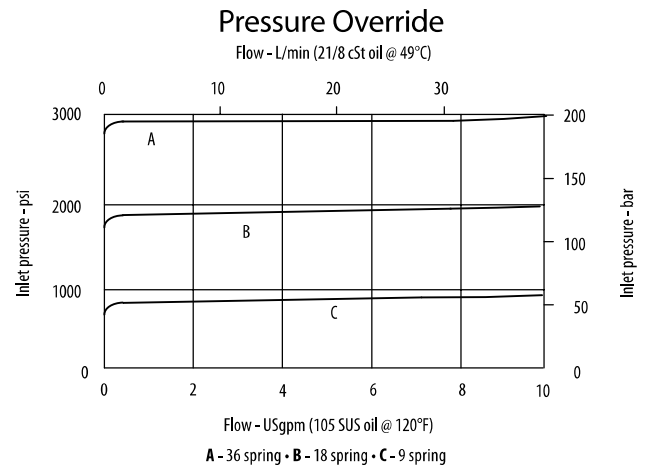
Rated pressure	250 bar [3600 psi]
Rated flow	30 l/min [8 US gpm]
Leakage	0.3 ml/min [5 drops/min] @ 85% of Pressure Setting
Weight	0.22 kg [0.48 lb]
Cavity	SDC10-2

DIMENSIONS



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

PERFORMANCE CURVES



MODEL CODE

RV1 - A - 10 - V - C - S - 2G - 3 - 10

Seal Configuration

Omit - Single back-up ring as shown
A - with 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
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

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]
9	7-62	[100-900]
Standard Setting	31	[450]
18	17-124	[250-1800]
Standard Setting	62	[900]
30	34-210	[600-3000]
Standard Setting	103	[1500]
36	124-250	[1800-3600]
Standard Setting	124	[1800]

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

* Additional housings available