

Relief Valves

1GR100

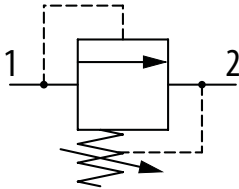
Relief Valve, Direct Acting, Spool Type

350 bar [5000 psi] • 150 l/min [40 US gpm]

DESCRIPTION AND OPERATION

This is a direct acting spool, type relief valve that relieves from port 1 to 2. It has been designed to give stable performance at lower pressure and can be used as a purge relief, bypass filter elements or in applications that require better control.

SCHEMATIC



PERFORMANCE DATA

Rated pressure	350 bar [5000 psi]
Rated flow	150 l/min [40 US gpm]
Max Pressure Setting	40 bar [580 psi]
Leakage	15 ml/min nominal
Weight	0.31 kg [0.7 lb]
Cavity	A881

MODEL CODE

1GR100 - P - 3W - 0.6 - S - 377 - 60

Basic Code

1GR100 - No housing
1GR145 - Cartridge and housing
1GR150 - Cartridge and housing
1GR155 - Cartridge and housing
1GR155 - Cartridge and housing
Through Ported

Adjustment Option

P - External
R - Knob
G - Tamper resistant

Housing

Code	Ports	Housing Model Code				
		Aluminum 1GR145	Aluminum 1GR150	Steel 1GR150	Aluminum 1GR155	Steel 1GR155
Omit	No Housing					
3W	3/8" BSP		C1084			
4W	1/2" BSP	B4851	C1044	C593		
6W	3/4" BSP	B3954	C1086	C4917		
8W	1" BSP				B1617	B4596
6T	3/8" SAE		B10784			
8T	1/2" SAE	B19403	C7140			
12T	3/4" SAE	B19404	B10506	B10742		
16T	1" SAE				B1037	B24040

Pressure Setting

Code - Pressure setting in bar
(5 bar increments within
specified Pressure Range)
XXX - Standard setting
(see Pressure Range for value)
Example:

Code	Bar	Psi
60	60	[870]

Housing Material

Omit - Aluminum/No housing
377 - Steel

Seal Option

Code	Seal Kit
S-Nitrile	SK190
SV-Viton	SK190V

Pressure Range

Code	Bar	Psi
0.6	0.3-6	[4.3-90]
Standard Setting	6	[90]
2	5-25	[75-360]
Standard Setting	20	[290]
4	5-40	[75-580]
Standard Setting	28	[400]

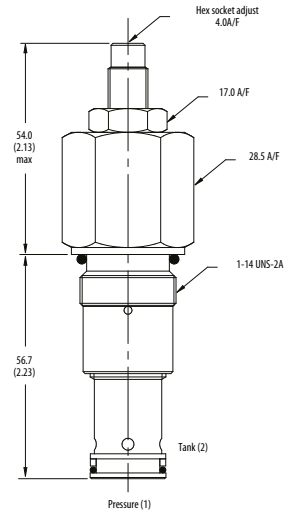
Pressure setting made at 4.8 l/min

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

* Additional housings available

DIMENSIONS

mm [in]



Installation torque
60 Nm [44 ft. lbs]

PERFORMANCE CURVES

Pressure Override

