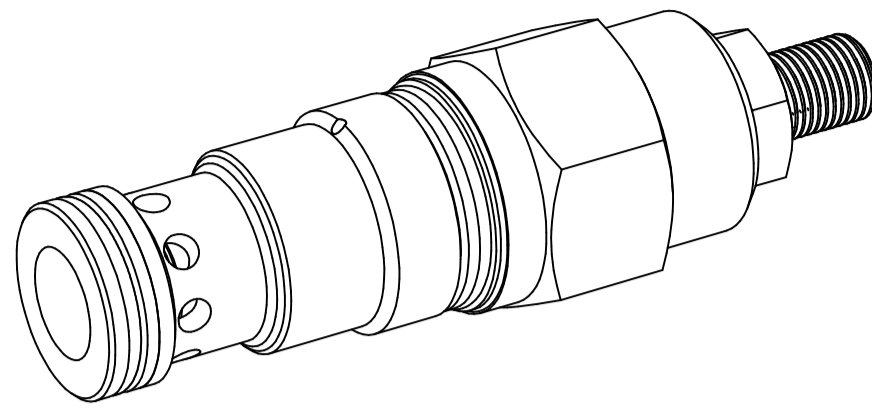
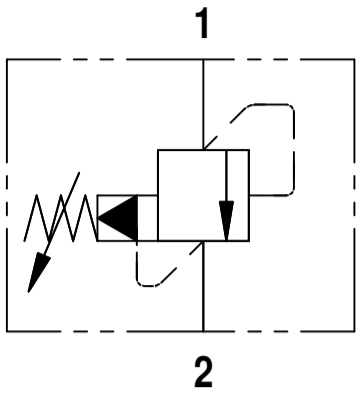




## AR G

### FLUID POWER SYMBOL



### APPLICATION

Pilot Operated Relief Valves are applicable more in systems where pressure regulation is needed over pressure safety. The barrel-piston assembly of the valve implies that the valve is not a zero-leak valve. The valve is ideal for continuous duty providing accurate control with constant or varying flows.

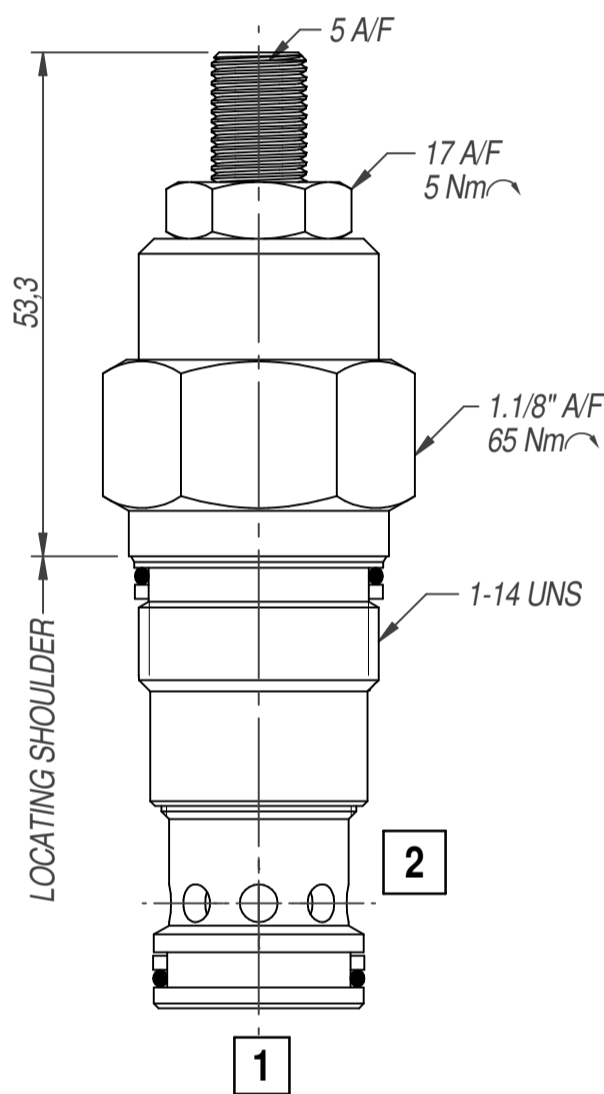
### OPERATION

When the inlet pressure at Port 1 (Pressure) exceeds the setting of the valve, the pilot section opens. This creates an internal pressure drop which causes the main section to open allowing relief flow to Port 2 (Tank)

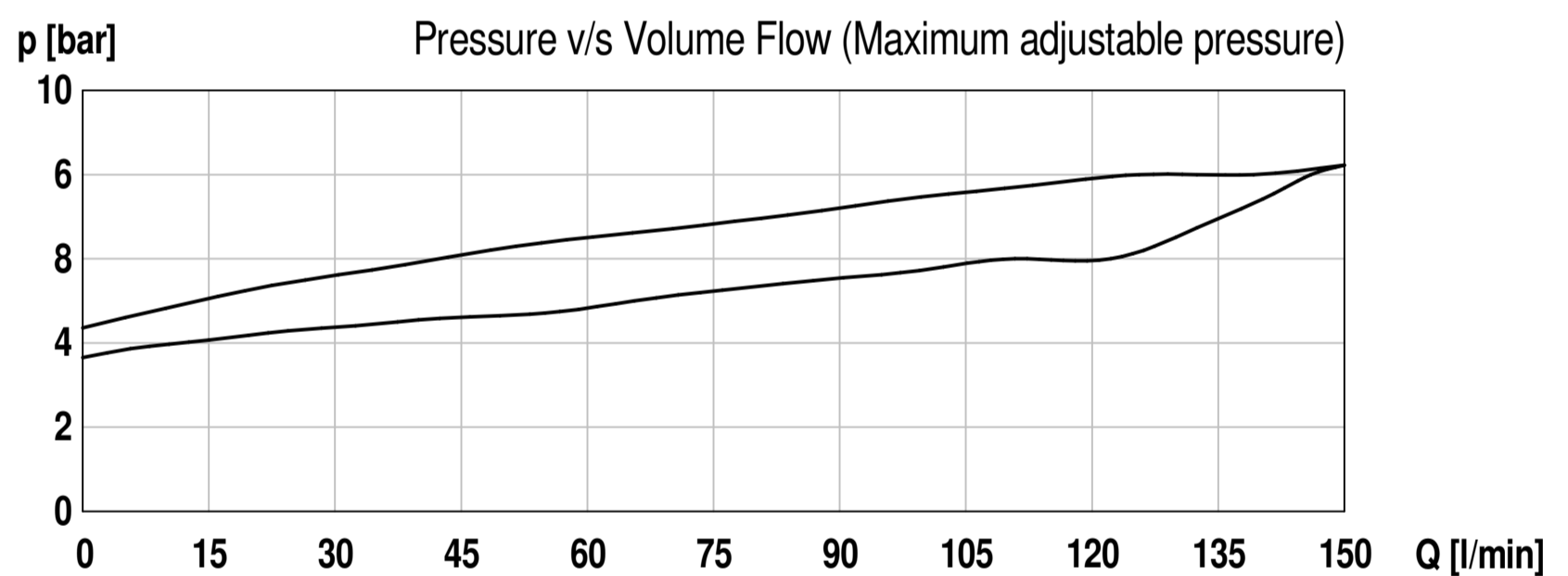
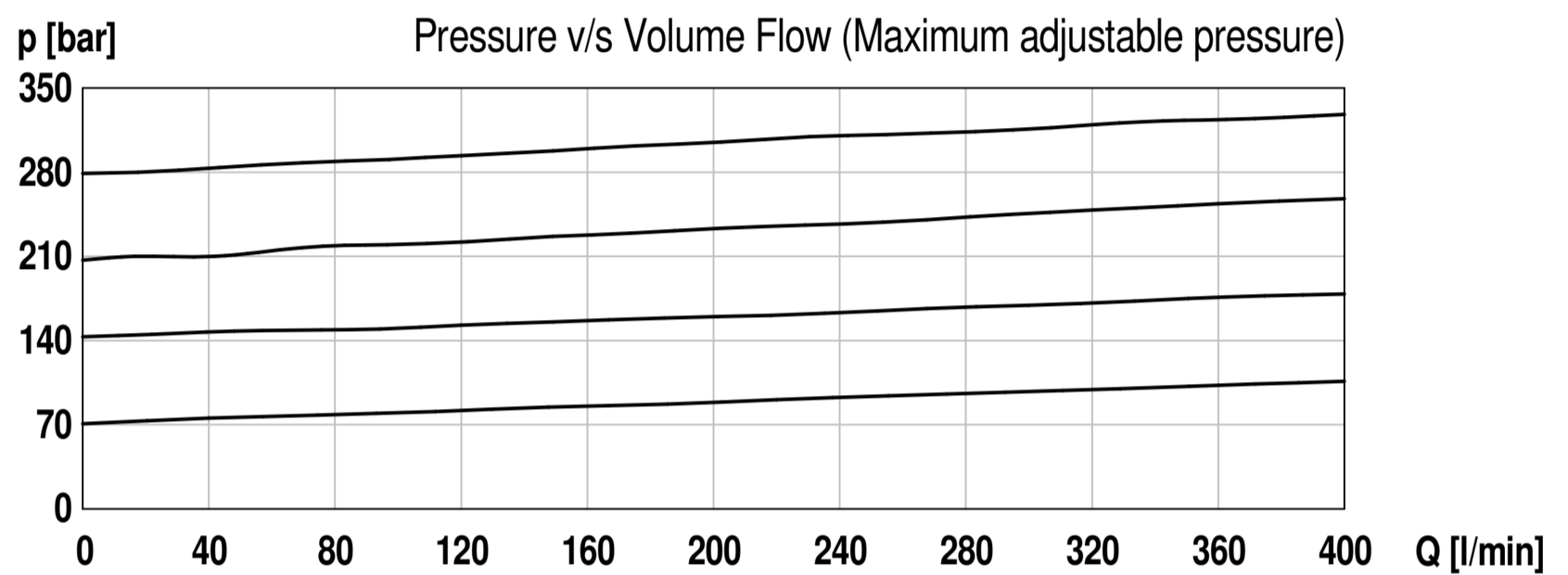
### FEATURES

Extremely low pressure-rise for any increase in flow giving accurate pressure control. Smooth operation due to presence of a balanced piston. Hardened working parts ensure a long, reliable, trouble-free life. Cartridge construction gives maximum flexibility in mounting

### DIMENSIONS



### CHARACTERISTICS. Figures Based on: Oil Temp = 40°C, Viscosity = 40 cSt



### General Specifications

Description	pilot operated relief valve
Construction	Screw-in Cartridge Construction for Cavity
Mounting	1-14" UNS screw thread for cartridge Threaded ports for housings.
Installation Position	any
Tightening Torque	35 Nm
Ambient Temp.	-20°C to +50°C
Cartridge Material	Working parts: Hardened, ground steel External surfaces: Zinc plated
Manifold Material	Not available
Cavity Number	Sun T-3A
Weight	AR G P 20 N Cart: 0.28 kg

### Hydraulic Specifications

Hydraulic Fluid	Mineral oils. Contact sales office for other fluids.
Max. Pressure	350 bar
Rated Flow	150 lpm
Max. Contamination Level	BS5540/4 Class 18/16/13 (25µ nominal)
Viscosity Range	5 to 500 cSt
Leakage Flow	Less than 0.6 ml/min (10 dpm)
Hydraulic Fluid Temp.	-20°C to +90°C (Standard Seals)
Mounting	Line/Subplate
Peak Pressure	400 bar
Max. Flow	200 lpm
Seal Kit Number	SKARG (Nitrile)

### ORDERING CODE

<b>AR G P 20 N</b>	
BASIC CODE AR - Pilot Operated Valve	SEAL KIT N: Nitrile
SIZE G: Size G, Series '2'	PRESSURE RANGE 20: 70 to 225 bar. Std setting 100 bar 35: 70 to 350 bar. Std setting 210 bar
ADJUSTMENT P: Leakproof Screw Adjustment	

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