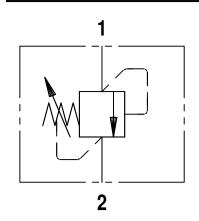
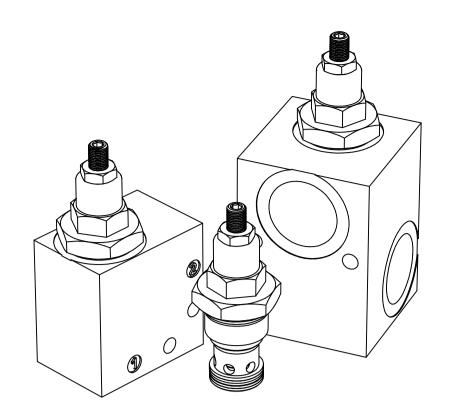


FLUID POWER SYMBOL





APPLICATION

Pressure Relief valves are used to limit the pressure in the system as set on the valve. Pilot Operated Relief Valves are applicable more in systems where pressure regulation is needed over pressure safety. The barrelpiston assembly of the valve implies that the valve is not a zero-leak valve and cannot be used for load holding applications. The valve is ideal for continuous duty providing accurate pressure control with constant or varying flows.

OPERATION

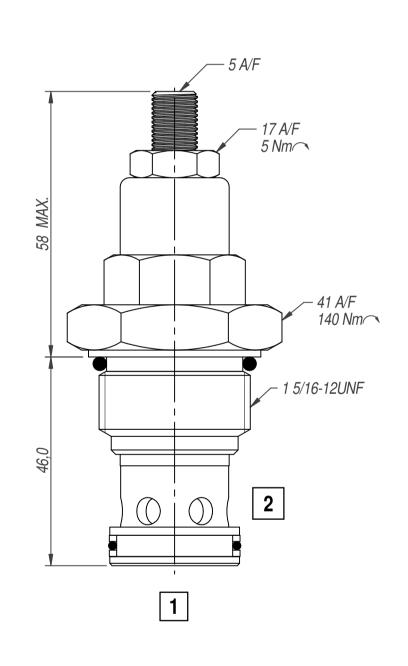
When the inlet pressure at Port 1 (Pressure) exceeds the setting of the valve, the ball unseats causing the pilot section to open. This results in a small flow across the orifice in the main spool. The subsequent pressure drop moves the secondary spool against a light spring opening a ring of radial holes in the sleeve and allowing relief flow to Port 2 (Tank)

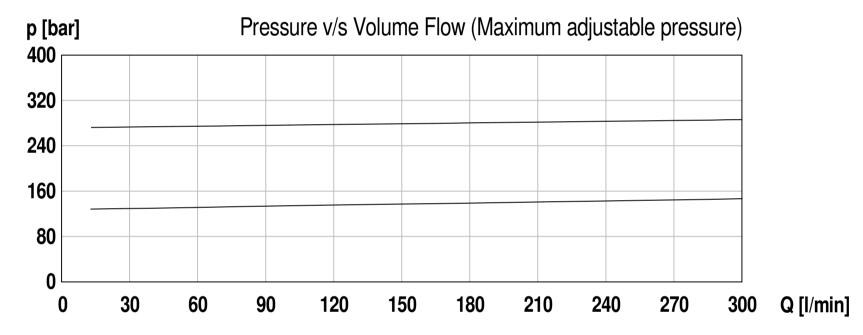
FEATURES

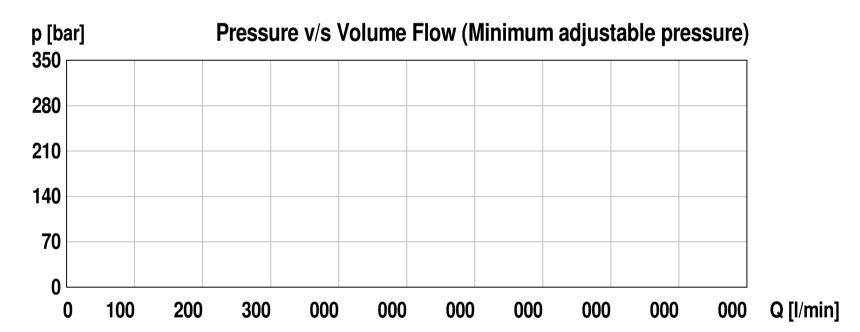
Very low pressure rise for any increase in flow giving accurate pressure control. Smooth operation due to presence of a balanced piston. Hardened working parts ensure a long, reliable, trouble-free life. Cartridge construction gives maximum flexibility in mounting

DIMENSIONS

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







General Specifications

Description Construction Mounting

Screw-in Cartridge Construction for Cavity 1-5/16" x 12UNF screw thread for cartridge

Threaded ports for housings.

pilot operated relief valve

Installation Position Tightening Torque Ambient Temp. Cartridge Material

Manifold Material

Cavity Number

Weight

any 140 Nm -20°C to +50°C

Working parts: Hardened, ground steel

External surfaces: Zinc plated Aluminium or SG Iron

SAE16-2 (Refer Cavities Section) AR 16 Cartridge: 0.40 kg

1.00 kg AR 16 * 6W **: AR 17 * 8W **: 1.60 kg

Hydraulic Specifications

Hydraulic Fluid Mineral oils. Contact sales office for other fluids.

Max. Pressure 400 bar 240 lpm Rated Flow

Max. Contamination Level BS5540/4 Class 18/16/13 (25µ nominal)

Viscosity Range 5 to 500 cSt

Leakage Flow Less than 0.3 ml/min (5 dpm) Hydraulic Fluid Temp. -20°C to +90°C (Standard Seals)

Mounting Line/Subplate 400 bar Peak Pressure 300 lpm Max. Flow

SKAR150 (Nitrile) Seal Kit Number

Pilot Operated Relief Valve

years in CARTRIDGE VALVES

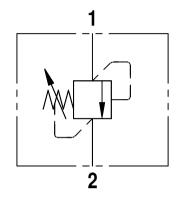
ORDERING CODE

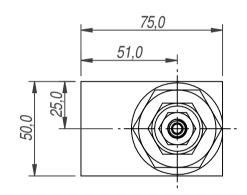
AR16 P 8W 20 N **BASIC CODE** SEAL KIT AR 16 - Standard Body AR 17 - Throught Ported Body N: Nitrile PRESSURE RANGE 20: 70 to 225 bar. Std setting 100 bar 35: 70 to 350 bar. Std setting 210 bar **ADJUSTMENT** F: Screw Adjustment PORT SIZE 8W: 1" BSP Ports 10W: 1-1/4" BSP Ports Omit for Cartridge

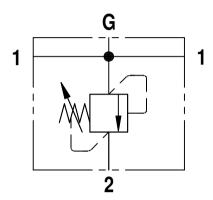
DIMENSIONS

DIMENSIONS

BASIC CODE: AR150 * 6W ** N ONLY Body Part Numbers
Aluminium SG Iron
3/4" BSPP - Z10353AL 3/4" BSPP - Z10353







BASIC CODE: AR 17 * 10W ** N

ONLY Body Part Numbers
Aluminium SG Iron
1.1/4" BSPP - Z10455 1.1/4" BSPP - Z10455S

