Pilot Operated, Spool-Type Relief Valve

Application

The RA101 Series Relief Valves are suited for continuous duty applications and are primarily used to limit main system pressure.

Operation

When inlet pressure exceeds the valve setting the pilot section opens. This pilot flow creates a pressure imbalance across the main section causing the valve to open, permitting relief flow to tank.

Features 4 1

- Low override curve
- "Dart" type pilot for added stability
- High accuracy pilot operated design
- Long life hardened working parts
- Cartridge design

Installation Data

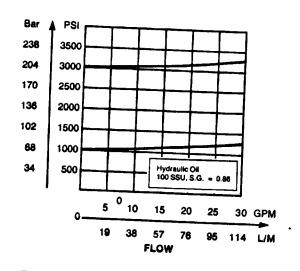
See the Installation Information section of this catalog for specific recommendations pertaining to system cleanliness, fluids, seals and other important factors relative to the proper installation and use of these products.

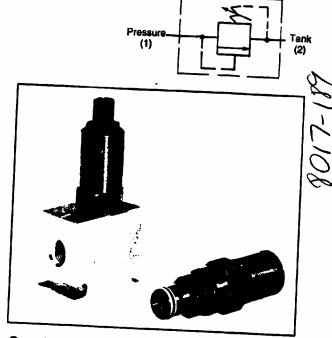
Performance Curve

Flow vs. Inlet Pressure

(Pressure Override Curve)

(Through cartridge only. For performance of bodies, see section MV).

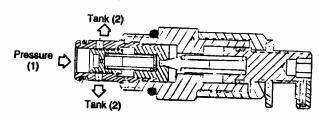




Cartridge Valve Specifications

Rated Flow	T 00 00:
	30 GPM (112.5 L/M)
Max. Inlet Pressure	3500 PSI (245 Bar)
Max. Setting Press.	3000 PSI (210 Bar)
Reseat Pressure (Valve returns to non-relieving mode)	80% of set pressure
Operating Temp. Range (Ambient)	-40°F to + 200°F (Nitrile) -25°F to + 250°F (Viton)
Leakage	82 cc/min. at 25% of set pressure
Cartridge Material	All parts steel. All operating parts hardened steel.
Body Material	All parts steel
Filtration	ISO Code 16/13, SAE Class 4 or better
Mounting	No Restrictions
Cavity	Common Cavity No. C10–2 (See Cavity Petails section)

Construction



Relief Valves Series RA101

