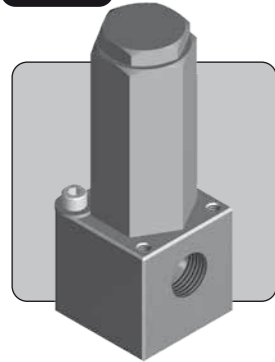


RL50 -G RELIEF VALVE

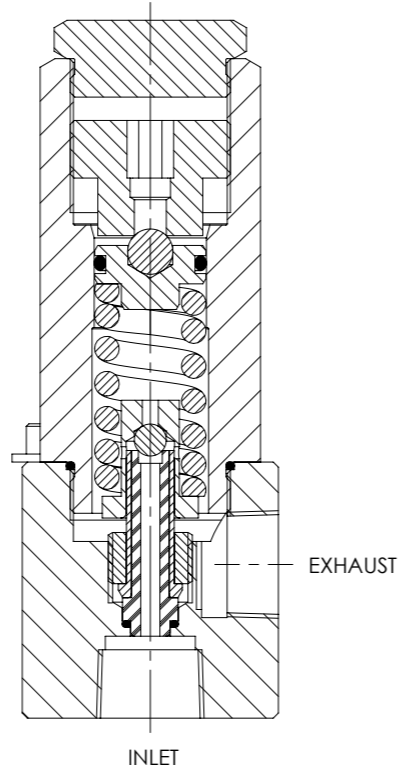
1/2" UP TO 414 BAR 6,000 PSI



The RL50-G is a 1/2" ported relief valve. Designed for emergency relief applications, it may be used to protect systems up to 414 bar (6,000 psi).

The valve is a proportional metering style relief valve with soft seats enabling its use with gases, and is approved as a safety accessory to category IV of the Pressure Equipment Directive.

- Approved to category IV of the Pressure Equipment Directive (2014/68/EU)
- Available preset via internal adjustment or with an external handwheel adjustment option
- Wire locking and tagging available on request
- Minimal leakage at 90% of set pressure
- Reseat within 20% of set pressure
- Repeatably within ±5% of set pressure
- Subsea variants available, contact us for advice
- Suitable for use with air, nitrogen and sweet natural gas.
- Suitable for many other media, contact us for advice
- Various spring ranges available

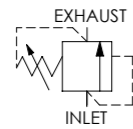


Specifications

BASIC MODEL NUMBER

RL50-G

SYMBOL



MAX WORKING PRESSURE

414 bar
(6,000 psi)

MAX OUTLET PORT PRESSURE

69 bar
(1,000 psi)
Note: Any outlet port pressure is directly additive to the set pressure

ORIFICE SIZE

Ø3.8mm (Ø0.150")

FLUID

Gases only
See materials section

TEMPERATURE RANGE

See Product Selector opposite and Technical Data section

PORT SIZE

1/2"

WEIGHT

1.5 kg
(3.3 lb)

Specifications may change without notice

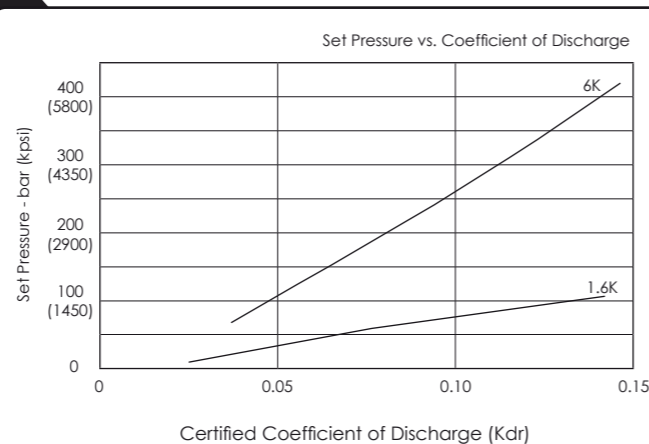
Materials

Externally Exposed Parts: 316 stainless steel on all pressure retaining components, 300 series stainless steel is used for the external adjuster. The non-wetted and enclosed internal adjuster is chrome steel and brass.

Internally Wetted Parts: 316, 302 and 431 stainless steel, PEEK and silicon nitride. The standard valve is designed for use with air, nitrogen and sweet natural gas. Contact us for advice when use with other media is required.

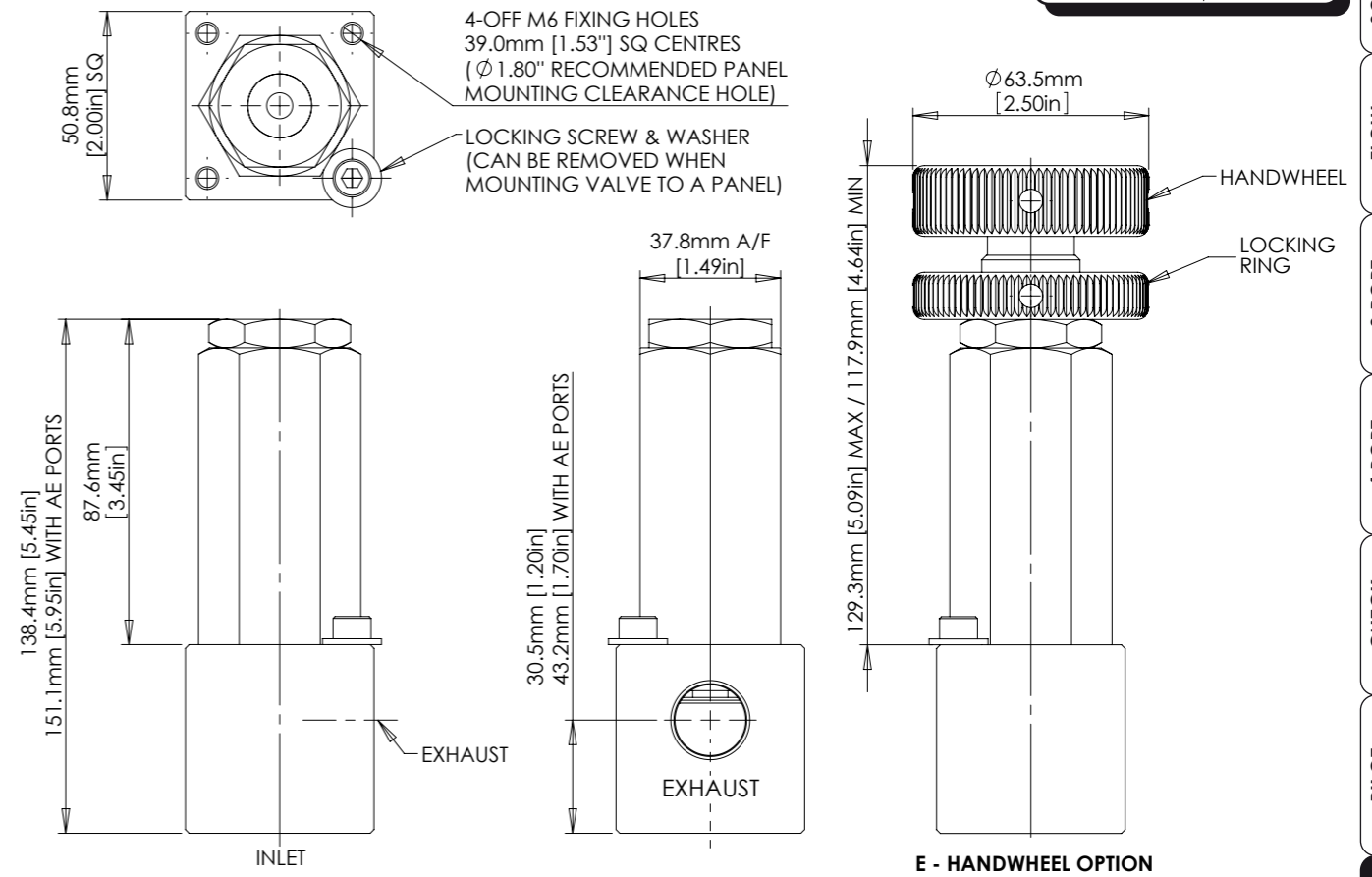
⚠ The standard valve has Viton® seals. Further seal options are available via the Product Selector. Compatibility with the working fluid at the operating temperature must be considered.

Typical Performance



The Kdr value may be used to calculate discharge capacity in accordance with ISO 4126. We recommend contacting us with system details to confirm suitability.

Installation Diagram



Product Selector

RL50 - 56AE - 50P - E - G - NBR - 1.6K

VALVE TYPE	INLET PORT OPTIONS	EXHAUST PORT OPTIONS	VALVE OPTIONS	SEAT TYPE	SEAL OPTIONS	SET PRESSURE RANGE
RL50	P 1/2" BSPP female inlet and exhaust	50P 1/2" BSPP female exhaust	E Handwheel (external) adjustment	G Soft seats	NBR Nitrile seals -30°C to +80°C	1.6K 13.8 - 110 bar (200 - 1,600 psi)
	N 1/2" NPT female inlet and exhaust	50N 1/2" NPT female exhaust	E Handwheel (external) adjustment	G Soft seats	EP EPDM seals -40°C to +80°C	6K 69 - 414 bar (1,000 - 6,000 psi)
	56AE 3/8" OD medium pressure tube inlet		E Handwheel (external) adjustment	G Soft seats	KLZ Kalrez® seals -25°C to +80°C	6K 69 - 414 bar (1,000 - 6,000 psi)
	81AE 9/16" OD medium pressure tube inlet		E Handwheel (external) adjustment	G Soft seats	HNBR Hydrogenated Nitrile seals -20°C to +80°C	6K 69 - 414 bar (1,000 - 6,000 psi)

Leave blank for P and N inlet options

Leave blank if none required

G option must be selected

Leave blank for Viton® seals -10°C to +80°C

Exposure to high and low fluid temperatures will influence handle temperature. Operator safety must be considered

Advise us of set pressure if factory pre-setting is required

Further seal options are available on request

Repair and seal kits are available on request

For a seal kit add SK at the end of the model code and for a repair kit add RK



SOLENOID
FLOW CONTROL
3 PORT DIRECTIONAL CONTROL
4 PORT DIRECTIONAL CONTROL
CHECK AND SHUTTLE
PILOT OPERATED CHECK
RELIEF
EXCESS FLOW
FILTERS
PRESSURE SENSING
PUMPS
ACTUATORS
TECHNICAL DATA