



2.12

XRP10-46 TYPE

Proportional Pressure Reducing Valve

Max. pressure (bar / psi)	50 / 720
Peak flow (L/min / gpm)	35 / 9.2

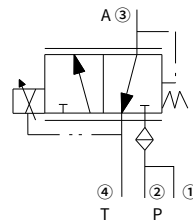
Features

- Quick response
- Compact size
- Oil-immersed DC solenoid

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Symbol



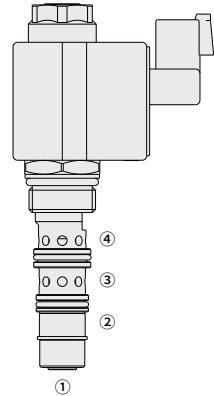
Description

A screw-in, cartridge-style, pilot-operated, spool-type reducing/relieving valve, which can be infinitely adjusted across a prescribed range using a variable electric input.

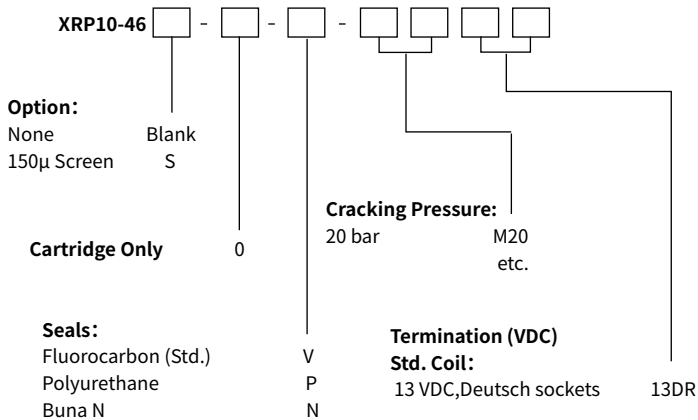
Pressure output is proportional to DC current input. This valve is intended for use as a pressure control device in demanding applications.

Operation

Without applied current, the valve allows bidirectional flow from ③ to ④ while blocking ②. When the coil is energized, ③ is connected to ②, and pressure at ③ is controlled proportional to the amount of current applied to the coil. If pressure at ③ exceeds the setting induced by the coil, pressure is relieved to ④.



Ordering Code



*For other cracking pressure voltages, please contact the factory

Materials

Cartridge:

Weight: 0.4 kg; Steel with hardened work surfaces. Zinc-plated exposed surfaces. Fluorocarbon (Std.) seal.

Standard Ported Body:

Anodized high-strength aluminum alloy, rated to 240 bar; Ductile iron and steel bodies available; Dimensions may differ, consult factory.

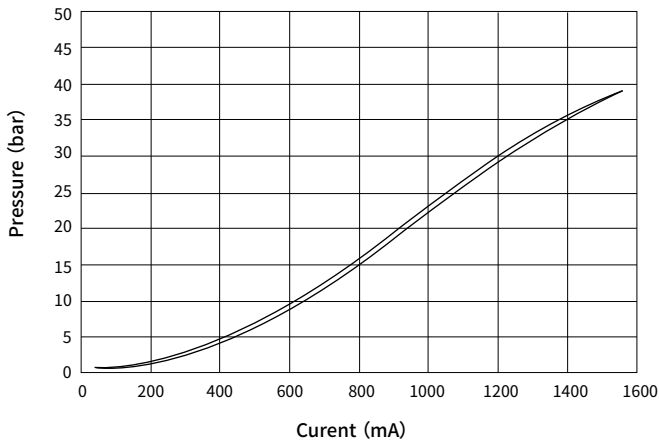
Technical Data

Max. pressure (through ②)	50 bar (720 psi)
Max. reduced pressure (through ③)	20 bar (290 psi)
Peak flow	35 L/min (9.2 gpm)
Internal leakage	0.8 L/min @ 80% of set pressure
Cavity	VC10-4 (See technical reference)
Fluid	Mineral-based or synthetics with lubricating properties
Viscosity range	7.4 to 420 mm ² /s
Temperature range	-26 to 204 °C (Fluorocarbon seals)
	-54 to 107 °C (Polyurethane seals)
	-40 to 100 °C (Buna N seals)
Degree of fluid contamination	The minimum pollution level is ISO4406 level 20/18/14, and level 17/15/13 is recommended to prolong the service life

02

Performance (Cartridge Only)

Pressure and Current Characteristic



Dimensions

(Dimensions in mm)

