



Up to 210 bar - Up to 75 lpm

Operation

The D-EEPRD blocks flow from (2) to (1) until sufficient pressure is present at (2) to offset the electrically induced solenoid force. 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 limiting device in demanding applications. With no current applied to the solenoid, the valve will free flow from (2) to (1) at approximately 7 bar. Note: Backpressure on port (1) becomes additive to the pressure setting at a 1:1 ratio.

Features

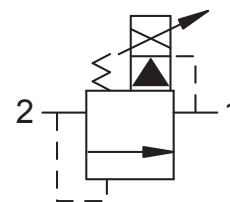
- Efficient wet-armature construction.
- Cartridges are voltage interchangeable.
- Industry common cavity.
- Unitised, molded coil design.
- Continuous duty rated solenoid.
- Optional coil voltages and terminations.



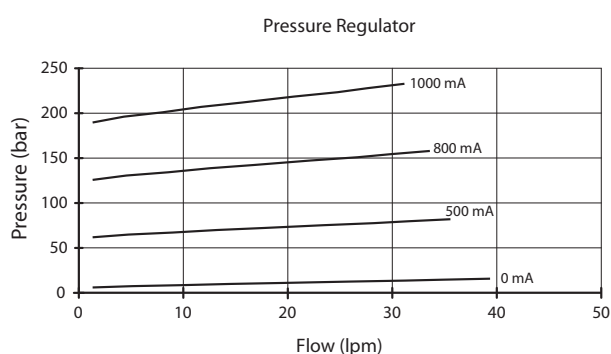
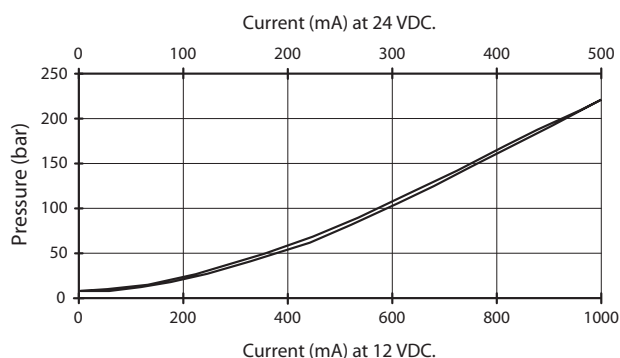
Uses "P" coil. Consult Factory for I coil performance curves.

For best performance valve must be purged of air. Locate below reservoir or add check valve to return.

Symbol



Performance.



Valve Specifications

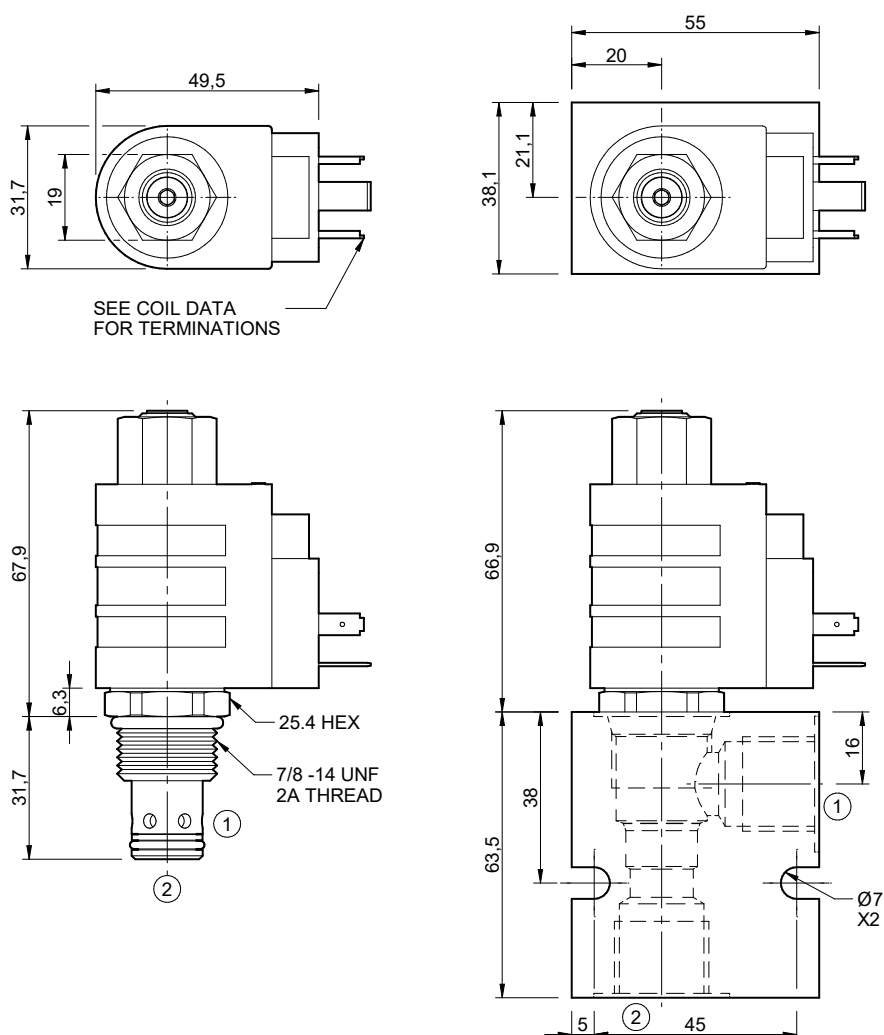
Flow Range (lpm)	0-75
Operating Range (bar)	3-210
Typical Hysteresis	5%
Hydraulic Oil	General purpose hydraulic fluid
Viscosity Range	3 to 640 cSt
Filtration	ISO 18/16/13
Operating Temp.	-40 to 120°C
Cartridge Torque	41 Nm
Coil Nut Torque	5 - 8 Nm
Cavity	DE10-2 (see cavity data page CAV-DE10-2)
Spare Seal Kit (Viton)	SK-DEVHD
Weight - Valve only	0.13 kg
Weight - Cartridge + Coil	0.32 kg
Weight - Cartridge + Coil + Body	0.55 kg (alum) 0.97 kg (steel)

Coil Specifications

Current Supply	PWM (Pulse Width Modulation)
Rated Current Range	00 - 1000 mA (12 Volts) 500 mA (24 Volts)
PWM or Super-imposed Dither Frequency	200 Hz or higher
Coil Resistance (12 vdc)	7.5 Ohm +/- 5% at 20°C
Coil Resistance (24 vdc)	30.5 Ohm +/- 5% at 20°C

Dimensions

[mm]



Ordering Code

D-EEPRD

Options	Coil termination	Voltage	Port size (BSP)	No. of ports	Body material
00 - Nitrile	DL - Double lead	12 - 12 Vdc	B - 3/8"	2 - 2 ports	A - Aluminium
V0 - Viton	DS - Double spade	24 - 24 Vdc	C - 1/2"	Options - See page B-DDE	S - Steel
	HC - EN 175301-803*	Options - See page Coil-P	Options - See page B-DDE		
	CL - Conduit lead				
	'I' coils (12 & 24 volts only) weather/immersion proof (IP69)				
	IA - AMP superseal				
	ID - Deutsch				
	IJ - AMP Jr. Timer				
	IM - Metripak				
	Options - See page Coil-P				
	Omit if coil is not required				

*Formerly DIN 43650 Hirschmann connector.