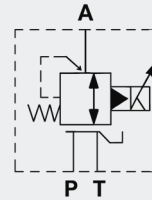


Proportional pressure control valve EPDRD3-05



Pilot operated
3-way function
Max. 315 bar
Max. 30l/min



EPDR3_06
12.2025

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Characteristics

- 3-way intermediate plate proportional pressure control valve with nominal size 6
- Reduces the input pressure in a low consumer pressure
- Consumer pressure can be set proportionally to the solenoid current
- Mechanical limitation of the maximum regulation pressure for safety
- Can be used purely as a pressure reducer (2-way function)
- High regulation precision and convenient response
- PWM trigger with preferred dither frequency of 140 Hz

Technical data

Hydraulic characteristics

Parameter	Value
Operating pressure	Max. 315 bar
Flow rate	Max. 30 l/min
Controlled pressure areas	See type code
Minimum pressure	Approx. 4–6 bar (the pressure at connection T is added to the set value)
Operating fluids	Mineral oils according to DIN 51524, others on request
Viscosity range	10 – 350 cSt
Filtration	Class 18/16/13, filter β 6-10 $\geq$ 75
Repeatability	< 1 % with optimized dither signal
Hysteresis	< 3 % with optimized dither signal

* at 20 % to 100 % of the rated solenoid current

Mechanical characteristics

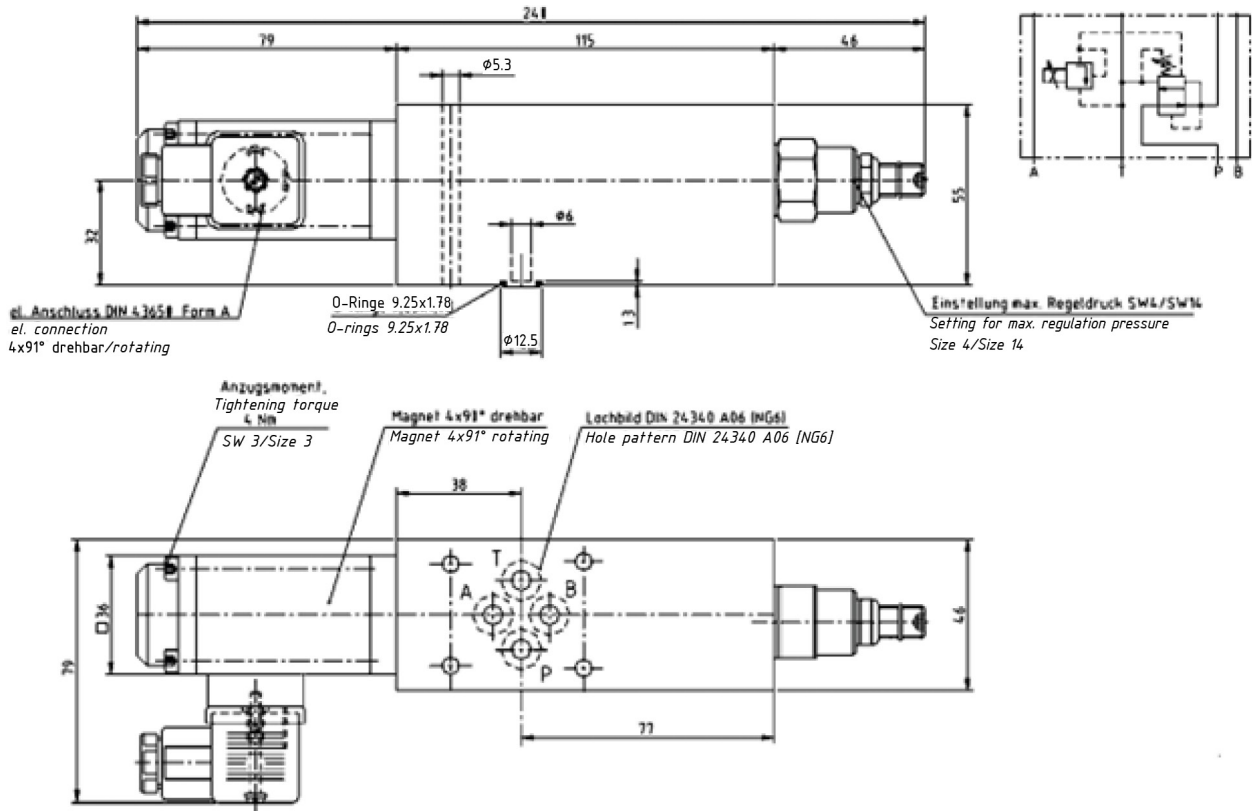
Parameter	Value
Design	Piston-spool design, spring chamber pilot operated
Installation position	Any
Weight	1.51 kg (intermediate plate)
Materials	Valve parts: Steel, nonferrous metal, casing: Aluminum
Seals	NBR, optional Viton
Backup rings	Teflon, PU
Surface protection	Valve parts: burnished, solenoid: galvanized, casing: anodized
Temperature range	Fluid -25°C to +70°C, ambient -25°C to +50°C

Electrical characteristics

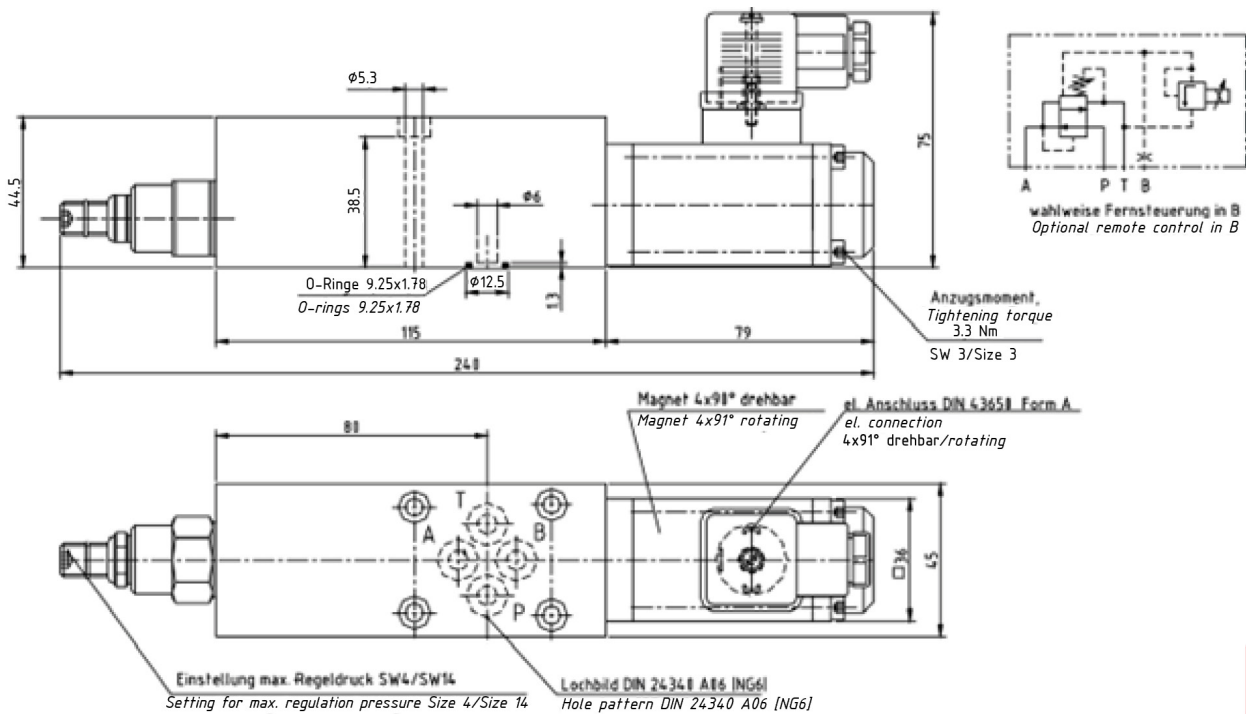
Parameter	Value
Rated voltage	24 V DC, 12 V DC
Permissible operating current	700 mA (24 V), 1700 mA (12 V)
Rated resistance	25 Ω (24 V), 4 Ω (12 V)
Power consumption	Max. 16 W
Power-on time	100 % PO
Control command	PWM signal (pulse width modulation)
Dither frequency	Preferable 140 Hz
Protection class	IP 65
Electrical connection	Device plug in accordance with DIN 43650 shape A including Pg9 socket

Dimensions

Intermediate plate
NG 6
EPDR3_06



NOTE On request:



Type code

ZEPDR3-06		–	175	–	*	–	24V	/	*
3-way proportional pressure control valve,			Controlled pressure area		Design		Rated		Special
Deliverable versions:			25 = - 25 bar 45 = - 45 bar 70 = - 70 bar 115 = - 115 bar 175 = - 175 bar 210 = - 210 bar 315 = - 315 bar		(internal)		12V = 12 V DC 24V = 24 V DC		FNH= definable Emergency manual actuation
Intermediate plate	ZEPDR3-06								
	= Intermediate plate NG 6, Regulation in P								
Mounting plate	NG 6 (on request)								