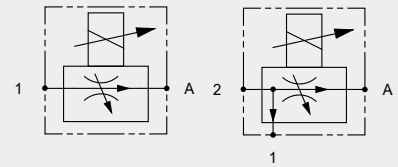


Proportional flow control valve EPSR2-14 and EPSR3-14



Directly operated, electrically actuated
 Max. operating pressure 350 bar
 Rated flow rate up to 70 l/min
 In piping casing or
 in intermediate plate NG 6 or NG 10



050120_EPSR3_14
 12.2025

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Characteristics

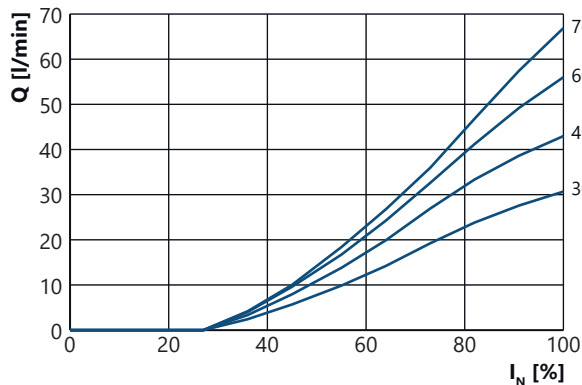
- 2- or 3-way proportional flow control valve in piping casing, in intermediate plate NG 6 or NG 10
- Normally open or normally closed models
- Available as a version resilient to residual current
- Maintenance-free
- Rotatable and replaceable solenoid coil

Technical data

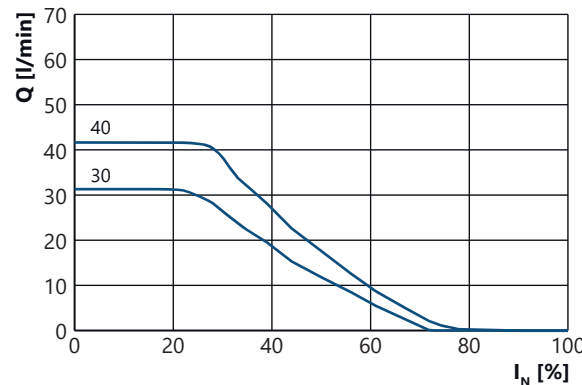
Hydraulic characteristics	Max operating pressure:	350 bar
	Rated flow rate:	See type code at differential pressure control $\Delta p = 7$ bar
	Flow direction:	2-way: 1 to A, 3-way: 2 to A (1 = tank)
	Operating fluids:	Mineral oils according to DIN 51524, others on request
	Viscosity range:	10 - 350 cSt
Mechanical characteristics	Filtration:	Oil purity according to ISO 4406 (1999) 18/16/13, filter with $\beta_{5(c)} > 200$
	Repeatability:	< 3 % with optimized PMW-signal*
	Hysteresis:	< 5 % with optimized PMW-signal*
	* at 20 % to 100 % of the rated solenoid current	
Electrical characteristics	Design:	Slip-in valve in the piping casing, in intermediate plate NG 6 or NG 10
	Size:	14
	Fluid temperature:	-20 °C to +65 °C
	Ambient temperature:	-20 °C to +50 °C
	Storage temperature:	-30 °C to +60 °C (non-condensing)
	Installation position:	Any
	Permissible acceleration:	5 g crossways
	Weight:	EPSR: 4.30 kg, ZEPRS2-06: 3.88 kg, ZEPRS3-06: 2.69 kg ZEPRS3-10: 5.65 kg
	Materials:	Valve parts: Steel, casing: steel, Seals: NBR, optional Viton
	Surface protection:	Exterior parts: Galvanized steel
	Rated voltage:	12 V DC, 24 V DC
	Rated solenoid current:	12 V: DIN and AMP 2.3 A, DEUTSCH 2.0 A 24 V: DIN and AMP 1.1 A
	Rated resistance (R20):	12 V: DIN and AMP 2.7 Ω , DEUTSCH 3.85 Ω 24 V: DIN and AMP 12.6 Ω
	Power consumption:	23.0 W at rated solenoid current
	Power-on time:	100 % PO
	Control command:	PWM signal
	PWM frequency:	Typically 140 Hz (depending on the application)
	Protection class:	IP65 with a correctly installed wiring box
	Electrical connection:	Device plug in accordance with DIN EN 175301-803 (formerly DIN 43650) shape A, AMP Junior Timer, DEUTSCH connector
	Control units:	See section 6, "Electronics and Sensors" at www.weber-hydraulik.com .

Characteristic curves

Flow rate diagram (Q/I) EPSR2-14
at $\Delta p = 7$ bar, normally closed



Flow rate diagram (Q/I) EPSR2-14
at $\Delta p = 7$ bar, normally open



Measurement conditions

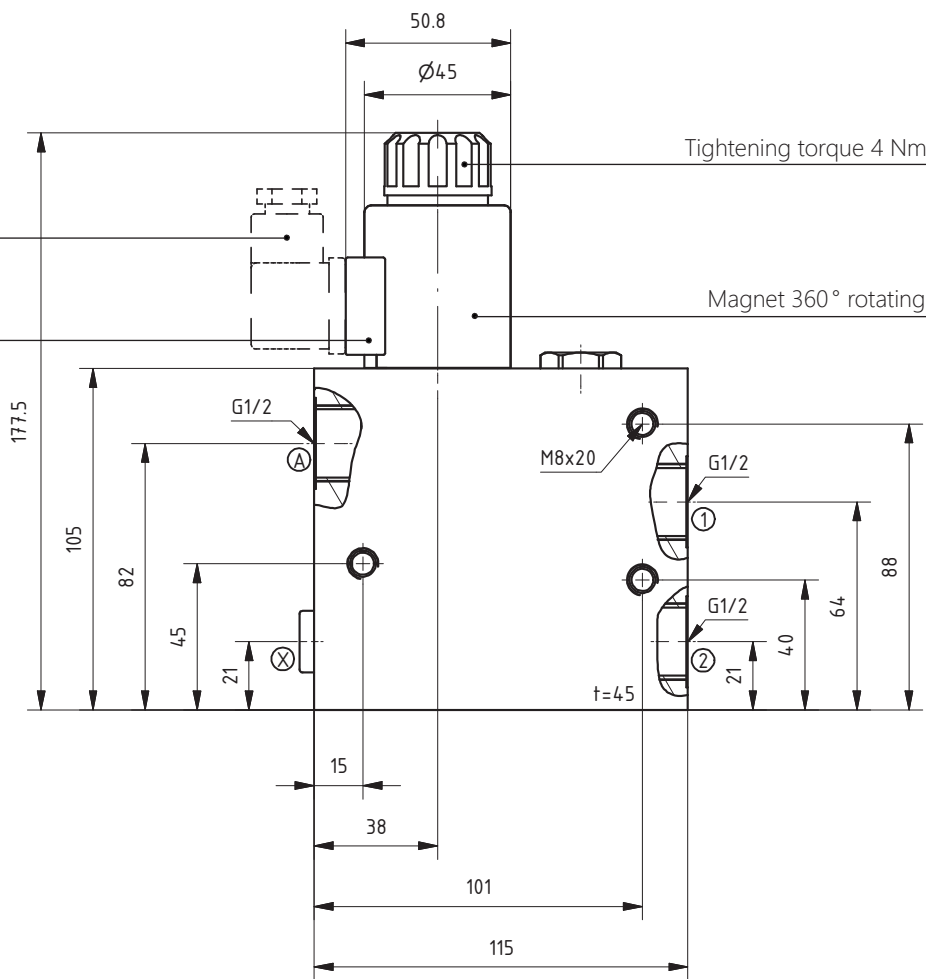
Oil: HLP 32, temperature: 40 °C (~32 cSt).

Dimensions

Proportional flow control valve in piping casing
EPSR 14

Tightening torque:
max. 0.5 Nm

Electrical connection
DIN EN 175301-803
(formerly DIN 43650) shape A



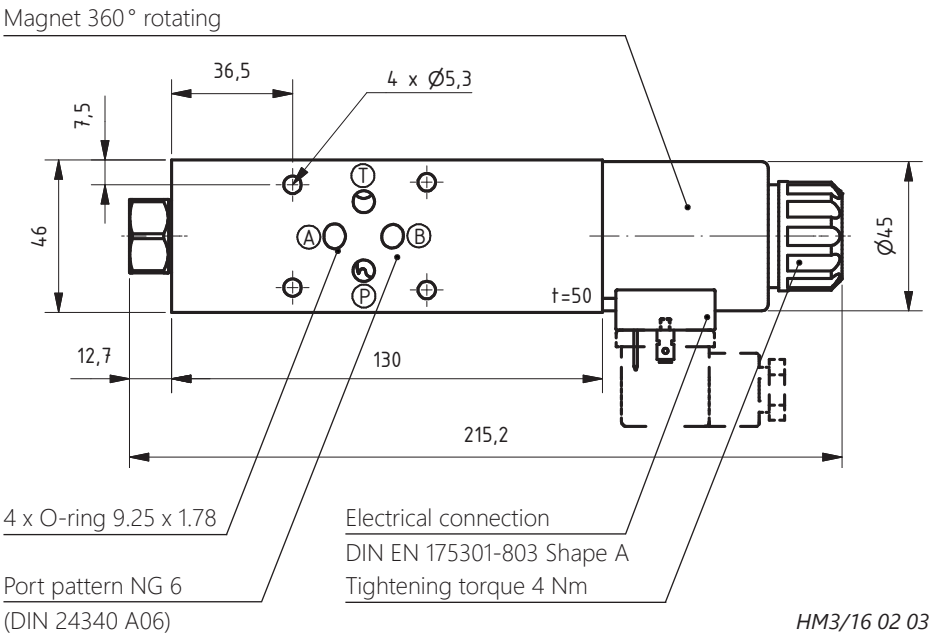
HM3/12 27 14

NOTE

The valve is also available as EPSRR in a version resilient to residual current, in which the residual current is fed out through the pressure of the regulated current and can therefore be used by other consumers. Information about this is available upon request.

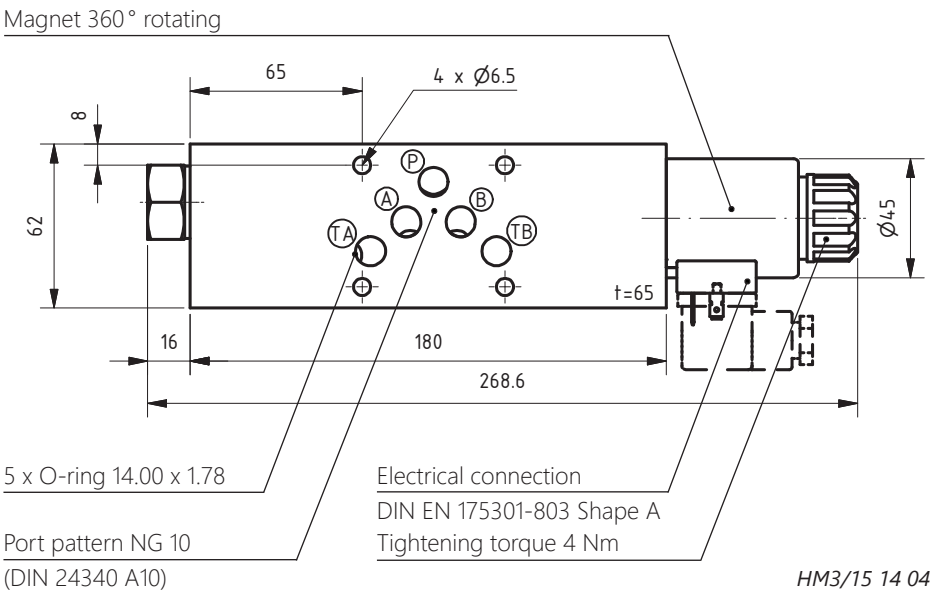
Dimensions

Flow control valve in intermediate plate
NG 6 ZEPSR-06-14



NOTE The valve must be mounted with suitable M5 x 60 - 12.9 cylinder head screws according to DIN EN ISO 4762. Tightening torque: 6.3 ±0.3 Nm, screw-in depth min. 8 mm.

Flow control valve in intermediate plate
NG 10 ZEPSR-10-14



- NOTE** Max operating pressure: P, A, B: 350 bar; TA, TB: 10 bar.
- NOTE** The valve is also available as EPSRA2-10-14 in an NG 10 mounting plate. Dimension sheets are available upon request.
- NOTE** The valve must be mounted with suitable M6 x 30 - 12.9 cylinder head screws according to DIN EN ISO 4762. Tightening torque: 10 ±0.5 Nm, screw-in depth min. 8 mm.
- NOTE** Dimensions for the port patterns are available in section 11 "General information" under the "Port Patterns" heading at www.weber-hydraulik.com.

Type code

Diagram showing the type code structure: [] - 14 - [] - [] - XX - [] - S - [] - [] - []

Size*

Model

2	2-way valve
3	3-way valve

Revision

Steel casing

Spool type

SG	Normally closed
SO	Normally open

Rated voltage

12V	12 V DC
24V	24 V DC

Seal

NBR	
Viton	V

Electrical connection

	DIN
AMP	AMP Junior Timer

Design

EPSR	Flow control valve in piping casing
ZEPSR	Flow control valve in intermediate plate NG 6 or NG 10*

Nominal flow
(at differential pressure control $\Delta p = 7$ bar)

30	30 l/min
40	40 l/min
60	60 l/min (only SG)
70	70 l/min (only SG)

Manual override

Without	
Manual override with pin	FNH
Lockable manual override with hexagon socket and lock nut	H301
Lockable manual override with star grip	H302

* when installed in an intermediate plate:
NG 6: ZEPSR2-06-14 or ZEPSR3-06-14
NG 10: ZEPSR3-10-14 (only available as a 3-way version)

NOTE The valve is also available as EPSRR in a version resilient to residual current on request.

Standard program

Accessories and further information

<i>Accessories/spare parts</i>	Article:	Article number:
	Socket DIN EN 175301-803 (formerly DIN 43650), shape A, black	149.0007
	Socket DIN EN 175301-803 (formerly DIN 43650), shape A, gray	149.0008
	Coil 12 V, DIN EN 175301-803 (formerly DIN 43650), shape A	147.0011
	Coil 24 V, DIN EN 175301-803 (formerly DIN 43650), shape A	147.0009
	Coil 12 V, AMP Junior Timer	147.0007
	Coil 24 V, AMP Junior Timer	147.0010
	Seal kit EPSR2(3)-14 (NBR)	405.0116
	Seal kit EPSR2(3)-14 (Viton)	405.0117
	Seal kit ZEPSR2-06-14 (NBR)	405.0118
	Seal kit ZEPSR2-06-14 (Viton)	405.0119
	Seal kit ZEPSR3-06-14 (NBR)	405.0120
	Seal kit ZEPSR3-06-14 (Viton)	405.0121
	Seal kit ZEPSR2(3)-10-14 (NBR)	405.0122
	Seal kit ZEPSR2(3)-10-14 (Viton)	405.0123

NOTE For appropriate electronic controllers, see section 6, *"Electronics and Sensors"* at www.weber-hydraulik.com.

Operating manual Information regarding assembly, commissioning and maintenance is available in section 11, *"General information"* in the *"General Operating Manual"* category or on request.