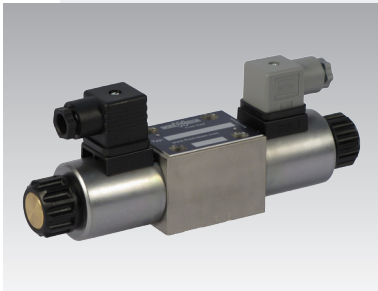
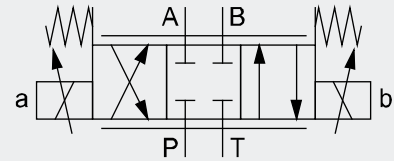


Proportional directional valve W42E1AS06 and W43E1AS06



direct operated, solenoid operated
 operating pressure max. 350 bar
 volume flow max. 25 l/min
 size NG 6, DIN 24340 A06



010130_W4_E-1AS06_e
 01.2016

Table of contents

Contents	Page
Characteristics	1
Technical data	2
Performance	3
Dimensions	4
Type code	5
Appendix	6

Characteristics

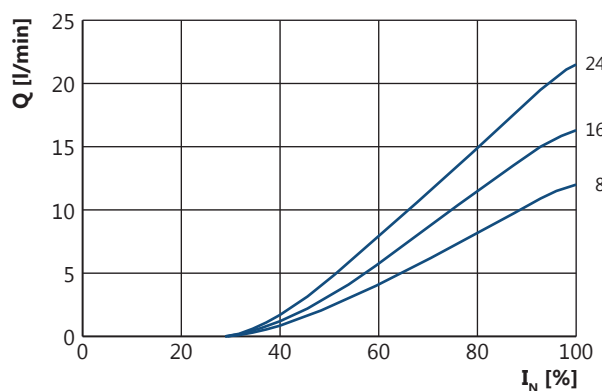
- proportional directional spool valve
- spring centred spool
- controls volume and direction of flow rate
- maintenance-free
- rotatable and replaceable coils

Technical data

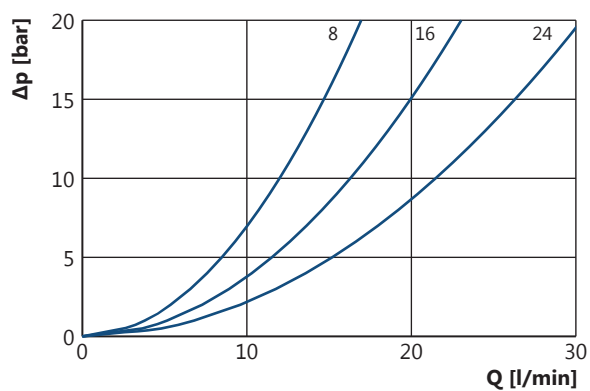
<i>Hydraulic</i>	Operating pressure:	port P, A, B: 350 bar port T: 210 bar
	Flow rate:	8, 16, 24 l/min
	Flow direction:	see symbols in type code
	Hydraulic fluid:	mineral oil according to DIN 51524, other hydraulic fluids upon request
	Viscosity range:	10 - 350 cSt
	Filtration:	oil cleanliness according 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 nominal valve current
	<i>Mechanic</i>	Design :
Size:		NG 6 (DIN 24340 A06, ISO 4401-03, CETOP 3)
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
Maximum acceleration:		5 g
Weight:		4/2-way-design: 1,6 kg 4/3-way-design: 2,1 kg
Material:		valve parts: steel seals: NBR, Viton optional
Surface protection:		coil: zinc-nickel body: comparable
<i>Electric</i>		Nominal voltage:
	Nominal valve current:	1,8 A (12 V), 0,9 A (24 V)
	Nominal resistance (R20):	2,7 Ω (12 V), 12,6 Ω (24 V)
	Power consumption:	21,6 W (at nominal valve current)
	Shifting time:	100% ED
	Control command:	PWM-signal
	PWM-frequency:	typically 85 Hz (depending on application)
	Protection class:	IP65 with correctly mounted and locked mating connector
	Electric termination:	electric plug according to DIN EN 175301-803 (formerly DIN 43650) shape A, respectively AMP Junior Timer
	Electronic controllers:	see chapter 6 "electronics and sensor technology" as well as our online catalogue at www.weber-hydraulik.com .

Performance

Flow rate diagram (Q/I) W43E at $\Delta p = 10$ bar



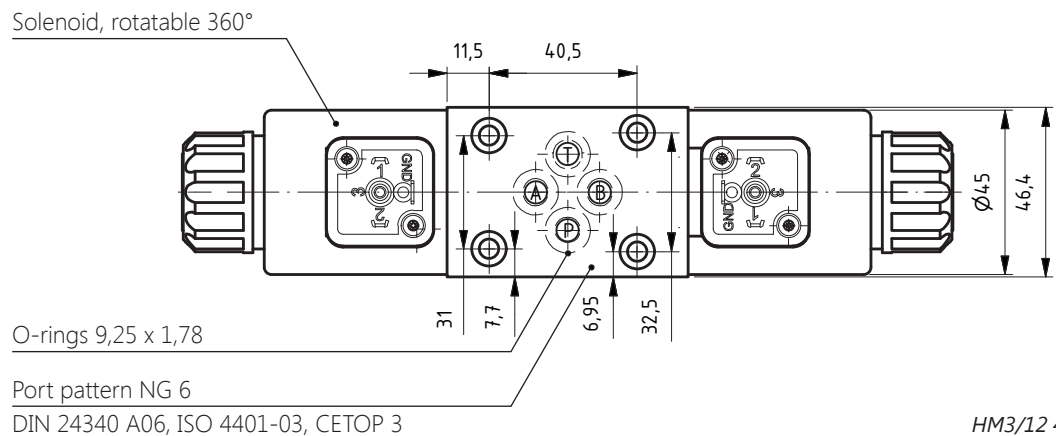
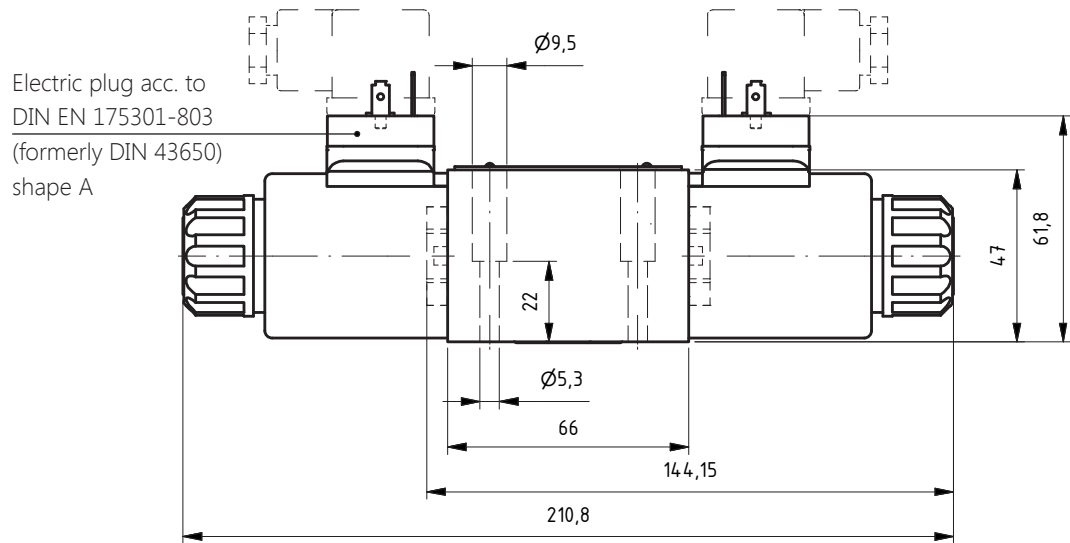
Pressure drop diagram ($\Delta p/Q$) W43E at I_N



NOTE Maximum tolerance of flow rate $\pm 10\%$ at symmetric flow. Maximum pressure drop at control edge Δp : 20 bar.

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

Dimensions

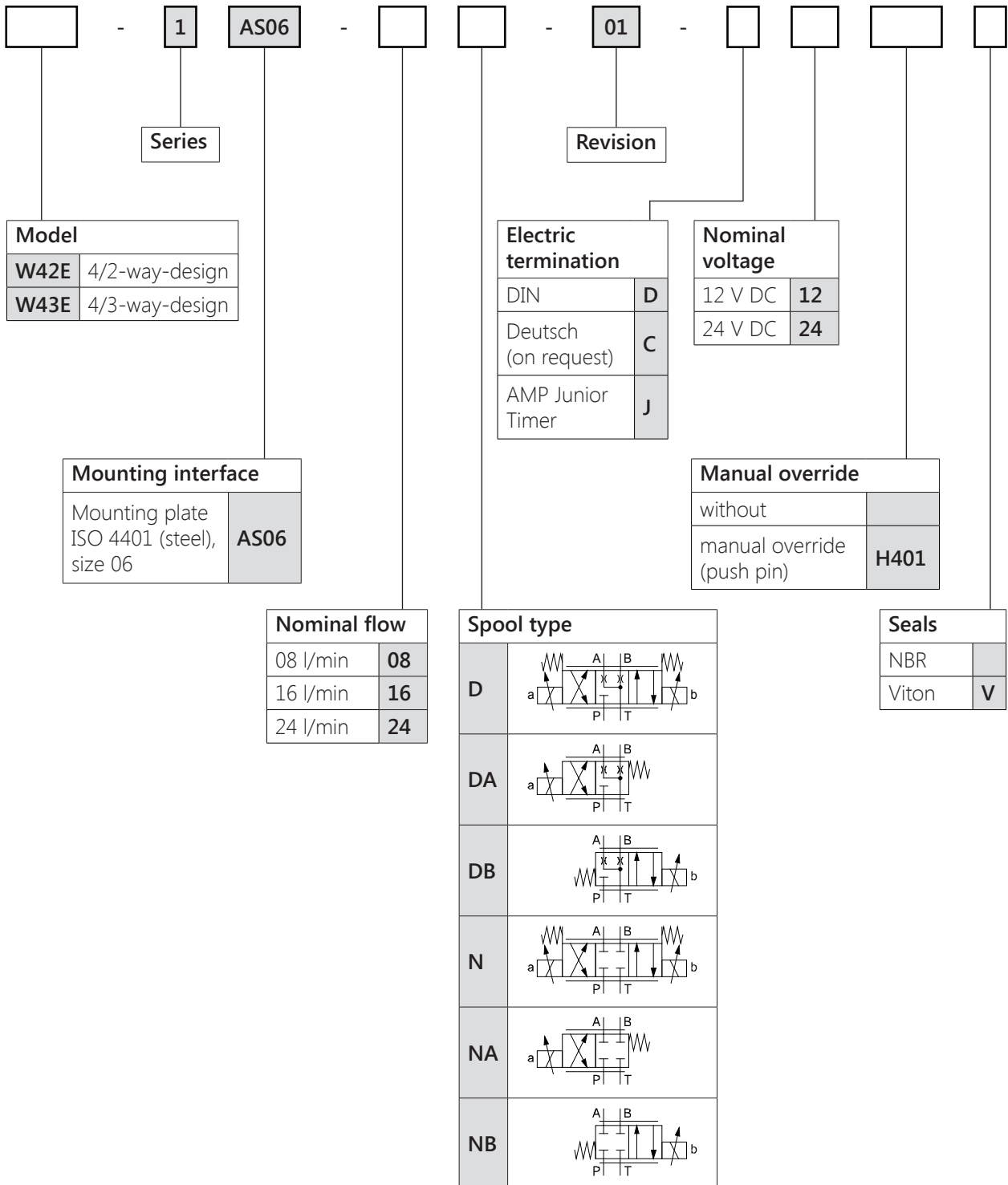


HM3/12 48 05

NOTE The valve must be mounted with fitting screws according to DIN EN ISO 4762 M5 x 30 - 8.8. Installation torque: 7 Nm, screw-in depth min. 8 mm.

NOTE For the dimensions of the port pattern, see our „*dimension sheets*“ in chapter 12 „general information“ as well as our online catalogue at www.weber-hydraulik.com.

Type code



Appendix

<i>Accessories/spare parts</i>	Part:	Article number:
	Socket connector DIN EN 175301-803*, shape A, black	149.0007
	Socket connector DIN EN 175301-803*, shape A, grey	149.0008
	Screw M5 x 30 DIN EN ISO 4762 (formerly DIN 912), 8.8, zinc plated	801.0024
	Seal kit W4_E-1AS06 (NBR)	405.0070
	Seal kit W4_E-1AS06 (Viton)	405.0071
	Coil 12 V DIN EN 175301-803*, shape A	147.0011
	Coil 24 V DIN EN 175301-803*, shape A	147.0009
	Coil 12 V, AMP Junior Timer	147.0007
	Coil 24 V, AMP Junior Timer	147.0010

* (formerly DIN 43650)

NOTE For the appropriate electronic controllers, see chapter 6 „*electronics and sensor technology*“ as well as our online catalogue at www.weber-hydraulik.com.

Manual Information regarding installation, set-up and maintenance can be found in our catalogue in chapter 12 under the category „general operating manual“ or will be provided upon request.