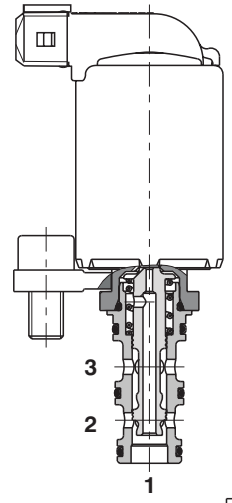
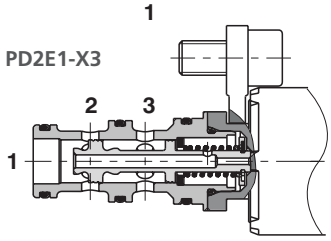
PD2E1

Size D17/D20 • Q_{max} 30 l/min (8 GPM) • p_{max} 80 bar (1200 PSI)

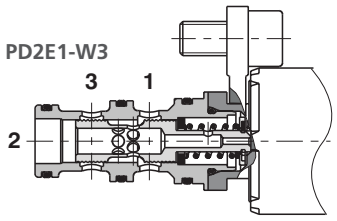
PD2E1-Y3



PD2E1-X3



PD2E1-W3

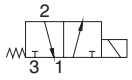
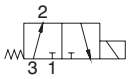


Technical Features

- 3/2 directional valve in an economical design
- Hardened precision parts
- High flow capacity
- Variety of optional spools available
- In the standard version, the valve is zinc-coated for 240 h protection acc. to ISO 9227. Enhanced surface protection for mobile sector available for the steel parts (ISO 9227, 520 h salt spray)

Functional Description

3-way, 2-position spool valve in the form of an economically designed slip-in cartridge. The valve is designed for use in the low-pressure systems of mobile applications, e.g. for functional control of transmissions.

Model Code	2D21	2D26
Symbol		

Technical Data

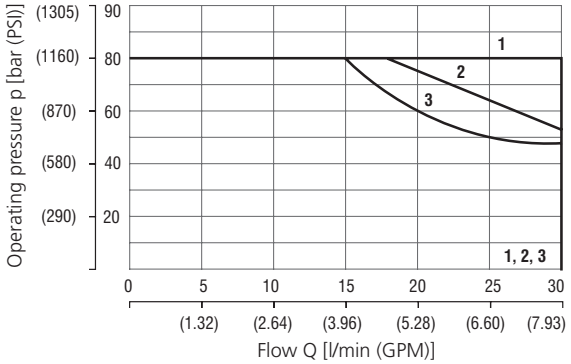
Valve size / Cartridge cavity		D17 / Y3	D20 / X3, W3
Max. flow	l/min (GPM)	30 (7.9)	
Max. operating pressure version Y, X (2, 3), W (3,1)	bar (PSI)	80 (1160)	
Max.operating pressure version Y, X (1), W (2)	bar (PSI)	30 (440)	
Fluid temperature range	°C (°F)	-30...90 (-22...194), +100 (212) short-time	
Ambient temperature range	°C (°F)	-30...90 (-22...194), +100 (212) short-time	
Supply voltage tolerance	%	± 10	
Supply voltage	V	12 DC	24 DC
Quenching diode		BZW06-19B	BZW06-33B
Enclosure type acc. to EN 60529		IP67 / IP 69K	
Weight	kg (lbs)	0.2 (0.44)	

		Datasheet	Type		
Valve			PD2E1-Y3	PD2E1-X3	PD2E1-W3
General information		GI_0060	Products and operating conditions		
Valve bodies	In-line mounted	SB_0018	SB-Y3-*	SB-W3-*	
Cavity details		SMT_0019	SMT-Y3*	SMT-W3*	
Spare parts		SP_8010			

Characteristics measured at ν = 32 mm²/s (156 SUS)

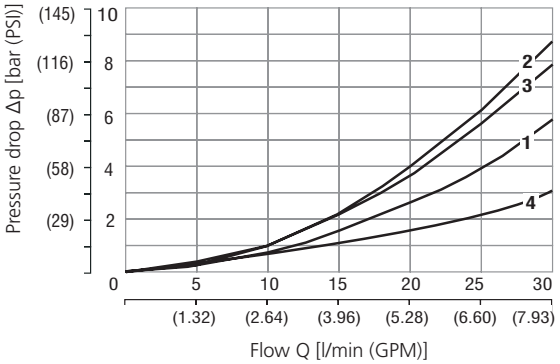
Operating limits

Oil 90 °C (194 °F) / Ambient temperature 90 °C (194 °F) / Voltage U_n ± 15% (21.6 VDC)



		Model	Connection
Y3	1	2D21	2→1
	1		3→2
	1	2D26	3→2
	1		2→1
X3	1	2D21	2→1
	2		3→2
W3	3	2D21	2→1
	1		3→2

Pressure drop related to flow rate

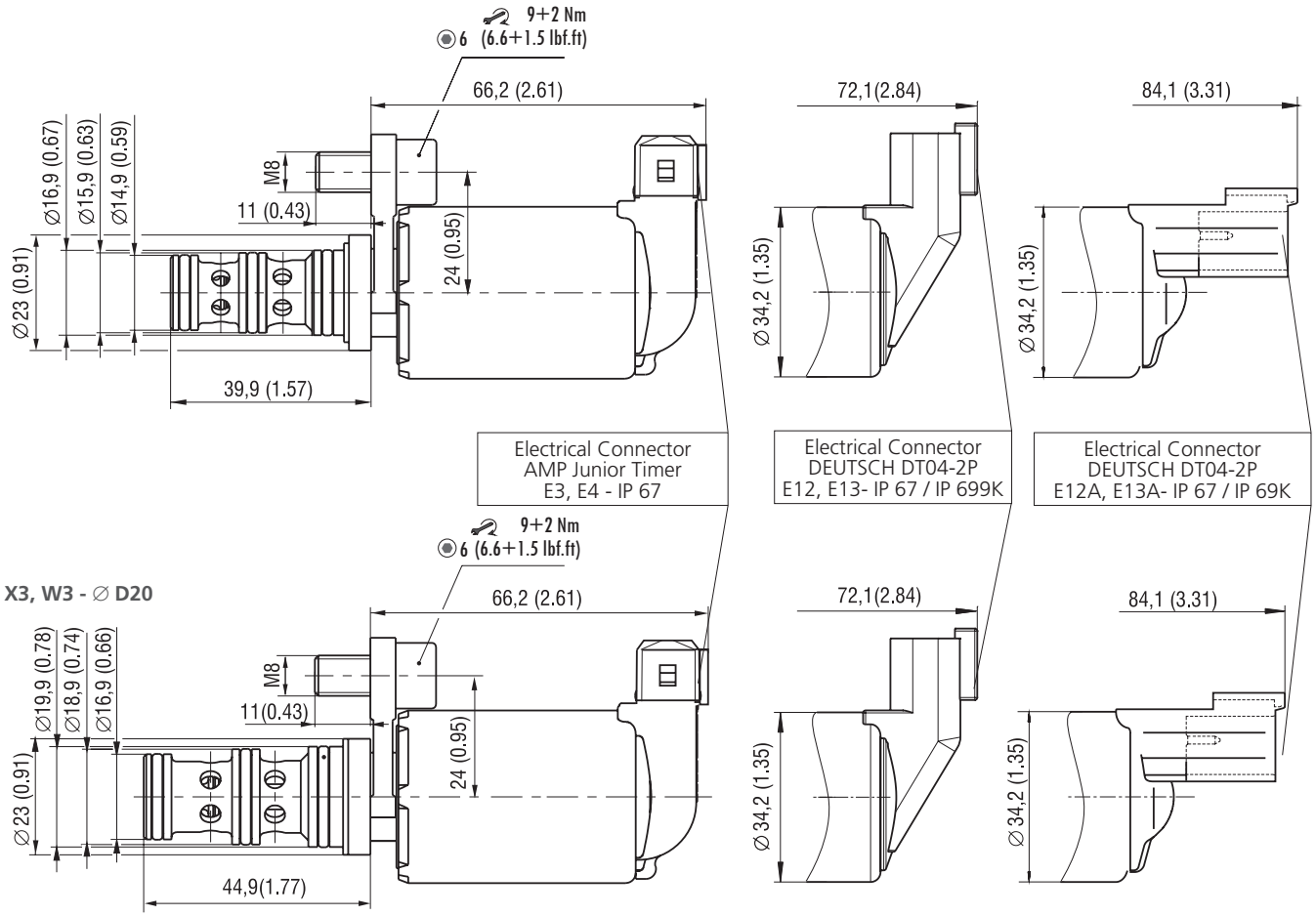


		Model	Connection
Y3	1	2D21	2→1
	2		3→2
	3	2D26	2→1
	2		3→2
X3	3	2D21	3→2
	4		2→1
W3	1	2D21	2→1
	1		3→2

For operating limits under conditions and flow directions other than shown contact our technical support.

Dimensions in millimeters (inches)

Y3 - ∅ D17



X3, W3 - ∅ D20

Ordering Code

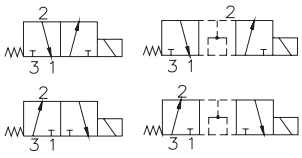
PD2E1 - ☐ / ☐ - ☐ ☐ ☐ - ☐

3/2 directional valve, solenoid operated, spool type, direct acting, slip-in style

Valve cavity

D17	**Y3**
D20	**W3**
D20	**X3**

Functional symbol



	2D21
	2D26

Nominal supply voltage

12	12 V DC / 1.67 A
24	24 V DC / 0.84 A

Connector

E3	AMP Junior Timer - radial direction (2 pins; male)
E4	E3 with quenching diode
E12	Deutsch DT04-2P - radial direction (2 pins; male)
E13	E12 with quenching diode
E12A	Deutsch DT04-2P - axial direction (2 pins; male)
E13A	E12A with quenching diode

Seals

No designation	NBR
V	FPM (Viton)

Surface treatment

A	zinc-coated (ZnCr-3), ISO 9227 (240 h)
B	zinc-coated (ZnNi), ISO 9227 (520 h)