Pilot-Operated Solenoid Valve for Process Actuation



The 6516/6517 EExi valves are used for process actuation in hazardous areas.

Thanks to the intrinsically safe design and the possibility of block mounting, the valves can be used in a wide variety of demanding applications.

24 V/DC

Process Specification

Nominal voltage

Duty cycle

Protection class

Materials Body Threaded port material Seal

Fluids

Ambient temperatures Block assembly

Single mounting

Mounting position

100% continuously rated IP 65 with cable plug

(for further information also consult our data sheet "Recommended Barriers")

PA Brass or stainless steel PB (NBR and PUR)

Lubricated or unlubricated compressed air, instrument air and nitrogen

-10 up to +50°C (T6) -10 up to +55°C (T5) -10 up to +55°C (T6)

Any, preferably solenoid system upright

Industrial waste water treatment Oil and gas industry Safe Area

• Chemical industry

· Pharmaceutical processing equipment

Applications: Target markets





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Technical Data

Circuit Function

- C 3/2-way valve, servo-assisted, in de-energized position, port 2 pressure relieved
- D 3/2-way valve, servo-assisted, in de-energized position, port 2 pressurized



H 5/2-way valve, servo-assisted, in de-energized position, pressure port 1 connected to port 2, port 4 exhausted



-	Type Circuit function		Orifice	QNn-Value	Pressure	Response	times	Weight
			DN	(air)	range	opening	closing	
			[mm]	[l/min]	[bar]	[ms]	[ms]	[g]
6516	6516 EExi	C (3/2-way)	8.0	1300	2 – 8	35	120	200
	6516 EExi	D (3/2-way)	8.0	1300	2 - 8	35	120	200
6517	6517 EExi	H (5/2-way)	8.0	1300	2 - 8	60	200	250
EExi	Flow rate: QNn-valu	e air [l/min] 5 bar pressure at valve inle		Pressure ranges [bar] Measured as overpressure			ponse times [ms] sured at valve outlet at 6 b	

Flow rate: QNn-value air [l/min] Measured at +20°C, 6 bar pressure at valve inlet and

1 bar pressure difference

Measured as overpressure to the atmospheric pressure

Measured at valve outlet at 6 bar and +20°C Opening Pressure rise from 0 to 90% Closing Pressure drop from 100 to 10%

Specifications - Ordering Chart (Other Versions on Request)

All valves in EEx ia IIC T6 versions with manual override, G 1/4 threads

Туре	Circuit function	Orifice DN	QNn-Value (air)	Supply port material	Pressure range	Item-No.
		[mm]	[l/min]		[bar]	
6516 EExi	C (3/2-way)	8.0	1300	Brass, nickel-plated	2 – 8	140 500 L
6516 EExi	D (3/2-way)	8.0	1300	Brass, nickel-plated	2 – 8	140 502 A
6517 EExi	H (5/2-way)	8.0	1300	Brass, nickel-plated	2 - 8	140 315 B
6517 EExi	H impulse	8.0	1300	Brass, nickel-plated	2 – 8	140 505 B

Dimensions [mm]





We reserve the right to make technical changes without notice. 0603/1_EU-en_00891759

Hazardous Areas