Solenoid Valve for high pulsed and compressed air

Type 6221

General Purpose

2/2-Way; G 3/8"-G 1"; 1-10 bar



Advantages/Benefits

- **High lifetime also under pulsed conditions**
- **Solutions for rough air applications**
- **High reliability**
- **Compact design with high flow rates**
- **Modular solenoid coil system different sizes and power ratings**
- **Low noise**
- **Easy coil change**
- **Coil can be locked in 4x 90° positions, or move freely between, as required**
- **Wide range of cable plug options Type 2508**

Design/Function

The valves are based on a modular concept comprising three basic elements:
Valve assembly, push-over and standard cable plug

This valve is specif for general purp with air. The d this valve a operation other can

A min differential of 1bar is r for complete opening.

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options of Type 2508
able to suit special
cal application requirements.

The modular concept provides flexibility to meet application requirements.

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Applications

Fluids

- Compressed air also with higher pulse rates

Applications

- Pneumatic systems
- Compressed air circuits

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Easy Fluid Control Systems

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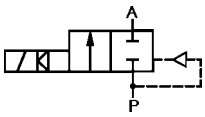
General Purpose

Technical Data

Circuit function

A 2/2-way, normally closed (N.C.), servo-piston valve, 2-way pilot controlled

Symbol



Operating Data (Valve)

Pressure range	1-10 bar
Port connection	G 3/8" - G 1"
Fluid	Seal material NBR: Compressed air pulsed air,
Medium temperature	-10 ... +90 °C
Max. ambient temperature	+55 °C
Response times	opening: 80-100 ms[1)] closing: 200-300 ms[1)] [1)]Depend on orifice and fluid pressure
Installation	as required, but preferab with solenoid system u

Operating Data (Actuator)

Operating voltages	AC: 24, 110, 230, V/50 Hz DC: 24 V/=
Voltages tolerance	±10 %

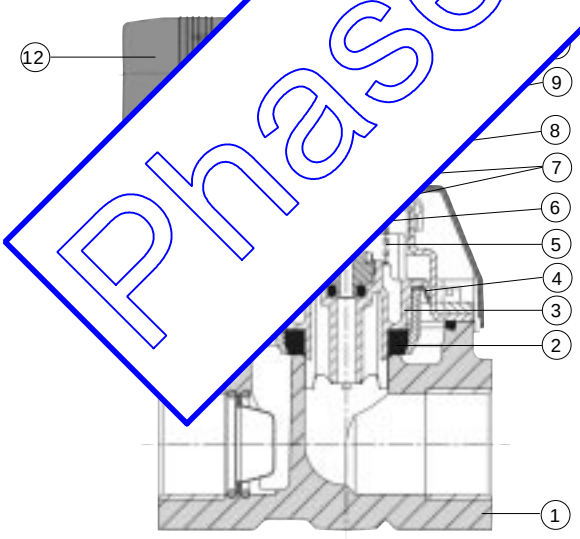
Power consumption

	DN (mm)		
Operating status	10	13	20
AC: inrush	34 VA	36 VA	38 VA
AC: hold	14 VA/ 8 W	14 VA/ 8 W	14 VA/ 8 W
DC: inrush and hold	10 W	10 W	10 W

Duty cycle	100% continuously rated
Cycling rate	up to 20 c.p.m.
tection class with plug	IP 65
nection	Delivery standard: Cable plug DIN 43 650 A, 0-250 V (Other versions see accessories).

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Materials



1	Valve body:	Brass
2	Seat-seal:	NBR
3	Piston:	PPS
4	Gasket:	PTFE
5	Spring:	1.4310
6	Plunger-seal:	NBR
7	O-rings:	NBR
8	Plunger:	1.4105
9	Armature guide tube:	1.4301
10	Stopper:	1.4105
11	Coil	Polyamide
12	Cable plug:	Polyamide

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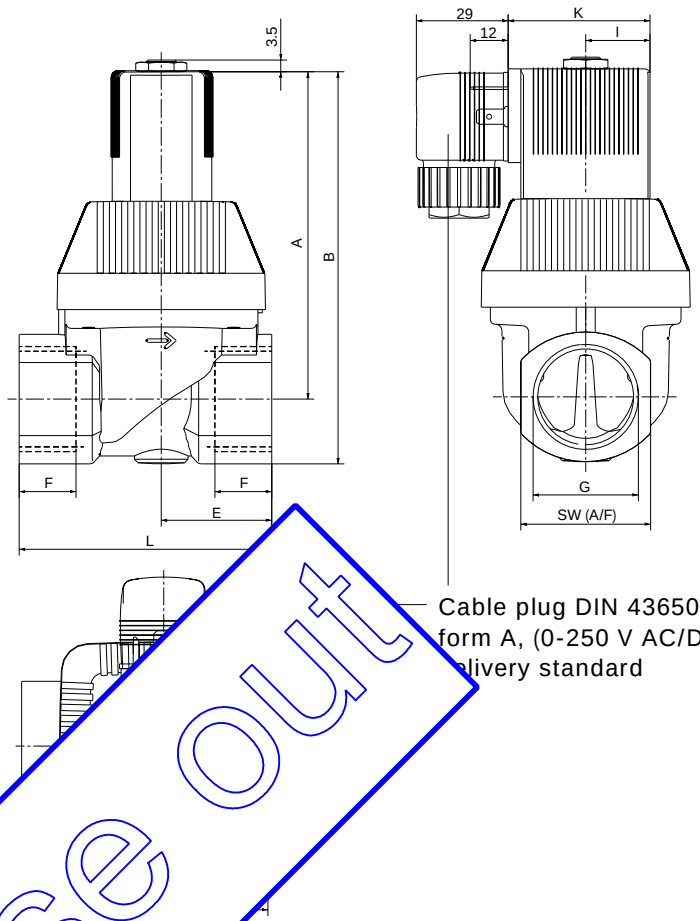
Specifications - Ordering Chart (Other Versions on Request)

Brass valve body; seal material NBR

(with standard-cable plug, 0-250 V AC/DC)

Port connection [Inch]	Orifice [mm]	Q_{Nn}-value (air) [l/min]	Pressure Range [bar]	Seal material	Weight [kg]	ORDER-NO. Voltage / Frequency [V/Hz] 24/=	24/50	110/50	230/50
G 3/8	10.0	1300	1-10	NBR	0.40	134 293 N	134 294 P	134 295 Q	134 296 R
G 1/2	13.0	3200	1-10	NBR	0.60	134 297 J	134 298 T	134 299 U	134 300 U
G 3/4	20.0	8700	1-10	NBR	1.00	134 301 W	134 302 X	134 303 Y	134 304 Z
G 1	20.0	8700	1-10	NBR	1.00	135 155 L	135 156 M	135 157 N	135 158 X

Dimensions (in mm)



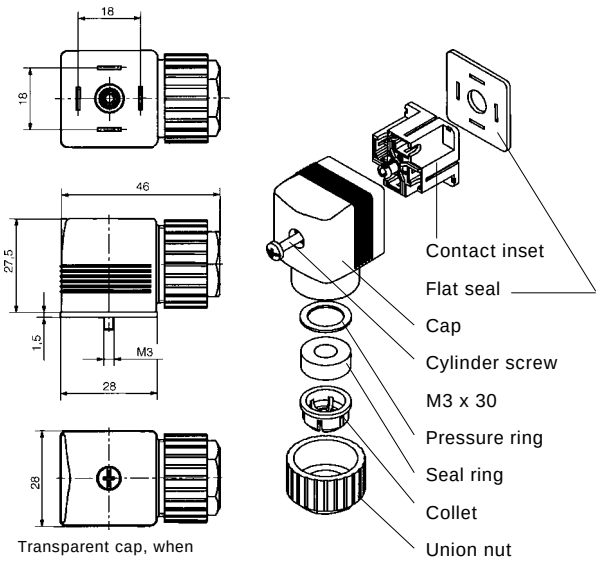
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			E	F	L	SW	AC-Coil A	AC-Coil B	AC-Coil H	AC-Coil I	AC-Coil K	DC-Coil A	DC-Coil B	DC-Coil H	DC-Coil I	DC-Coil K
		8.0	20	12.0	50	27	72.0	86.0	32	20.5	45	68.5	82.5	40	23,5	51
G		50.5	24	14.0	58	32	90,5	106.5	32	20.5	45	80.0	96.0	40	23,5	51
G 3/4		66.0	35	16.0	80	41	104.5	125.0	32	20.5	45	95.5	116.0	40	23,5	51
G 1	66.0	66.0	35	18.0	80	41	104.5	125.0	32	20.5	45	95.5	116.0	40	23,5	51

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Dimensions Accessories (in mm)



Transparent cap, when wired with LED.

Ordering Chart for Accessories

Device/ Accessory	Features	**Order-No.**
Cable-plugs[1] Type 2508	Standard cable plug, 0–250 V AC/DC (standard-delivery)[1]	008 376 N
	with LED, 12–24 V AC/DC	008 360 S
	with LED, 100-120 V AC/DC	008 361 P
	with LED + varistor, 12–24 V AC/DC	008 367 M
	with LED + varistor, 100–120 V AC/DC	008 368 W
	with LED + varistor, 200–240 V AC/DC	008 369 X
	(optional wirings and connection specifications see data sheet Type 2508)	

[1] The standard cable plug (0-250 V AC/DC), Order-No. 008 376 N is part of the standard delivery.
Ordering of optional cable plugs with separate ordering number.

A wide selection of further cable plugs is available (see special data sheet Type 2508)

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