

- > Port size: 1/4" ... 11/2" (ISO G/NPT) 1/2"... 2"(Flanged)
- > Zone 0, Exia solenoid pilot operated valve
- > Safety integrity level 1 and 2
- Reliable and long life, ideal for a one time installation
- > A pilot assisted solenoid operated valve for the control of pneumatic or hydraulic operated equipment
- > ATEX certified, complies with ATEX directive 94/9/EC
- > Environmental protection; NEMA 4X, IP66/X8









Technical features

Medium:

Hydraulic and pneumatic – customer to specify and confirm compatibility

Operation:

Indirect solenoid operated poppet valves

Mounting position:

Solenoid vertical

Flow:

0,8 Cv, (11,5 Kv) to 28 Cv (403 Kv)

Port size:

1/4 ... 1 1/2 NPT, G1/4 ... G1 1/2, Flanged 1/2 ... 2 available on request

Solenoid pilot port size:

1/4 NPT or G1/4

Operating pressure:

0 ... 20 bar (0 ... 290 psi)

0 ... 50 bar (0 ... 725 psi)

0 ... 207 bar (0 ... 3002 psi)

Pilot pressure:

3 ... 8 bar (43 ... 116 psi)

Temperature:

Media:

-20 ... +90°C (-4 ... +194°F) Ambient:

-40 ... +64°C (-40 ... +147°F) Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+35°F).

Materials:

Valve body, trim, coil housing and top cover: stainless steel 1 4404 (316 L)

stainless steel 1.4404 (316 L) O-rings seats & seals: high NBR

Other seat/seal materials available **Additional global approvals:** GOST-R, CCOE

Technical data - standard models

Symbol	Port size	Function	Operating pressure	Material Seat seal	Manual override/	Conduit connection	Certification	Weight	Dimension	Model
	Size		(bar)	Seat Seai	reset	connection		(kg)	No.	
10 1 W	1/4 NPT	2/2 NC	0 20	NBR	Without	M20 x 1,5	Ex ia IIC T6	4.5	1	Y2H21AA1SA10300
	G 1/4	2/2 NC	0 20	NBR	Without	M20 x 1,5	Ex ia IIC T6	4.5	1	Y2H21AE1SA10300
	1/2 NPT	2/2 NC	0 20	NBR	Without	M20 x 1,5	Ex ia IIC T6	6	2	Y2H21AA3SA10300
	G 1/2	2/2 NC	0 20	NBR	Without	M20 x 1,5	Ex ia IIC T6	6	2	Y2H21AE3SA10300
	1/4 NPT	2/2 NC	0 20	NBR	PBMR*1)	M20 x 1,5	Ex ia IIC T6	6	3	Y2H21PA1SA10300
	G 1/4	2/2 NC	0 20	NBR	PBMR*1)	M20 x 1,5	Ex ia IIC T6	6	3	Y2H21PE1SA10300
	1/2 NPT	2/2 NC	0 20	NBR	PBMR*1)	M20 x 1,5	Ex ia IIC T6	8	4	Y2H21PA3SA10300
	G 1/2	2/2 NC	0 20	NBR	PBMR*1)	M20 x 1,5	Ex ia IIC T6	8	4	Y2H21PE3SA10300
12 1 3 W	1/4 NPT	3/2 UNI	0 20	NBR	Without	M20 x 1,5	Ex ia IIC T6	6.5	5	Y2H23AA1SA10300
	G 1/4	3/2 UNI	0 20	NBR	Without	M20 x 1,5	Ex ia IIC T6	6.5	5	Y2H23AE1SA10300
	1/2 NPT	3/2 UNI	0 20	NBR	Without	M20 x 1,5	Ex ia IIC T6	8	6	Y2H23AA3SA10300
	G 1/2	3/2 UNI	0 20	NBR	Without	M20 x 1,5	Ex ia IIC T6	8	6	Y2H23AE3SA10300
	1 NPT	3/2 UNI	0 20	NBR	Without	M20 x 1,5	Ex ia IIC T6	25	7	Y2H23AA6SA10300
	G 1	3/2 UNI	0 20	NBR	Without	M20 x 1,5	Ex ia IIC T6	25	7	Y2H23AE6SA10300
	1/4 NPT	3/2 UNI	0 50	NBR	Without	M20 x 1,5	Ex ia IIC T6	6.5	5	Y2H33AA1SA10300
	G 1/4	3/2 UNI	0 50	NBR	Without	M20 x 1,5	Ex ia IIC T6	6.5	5	Y2H33AE1SA10300
	1/4 NPT	3/2 UNI	0 207	NBR	Without	M20 x 1,5	Ex ia IIC T6	6.5	5	Y2H63AA1SA10300
	G 1/4	3/2 UNI	0 207	NBR	Without	M20 x 1,5	Ex ia IIC T6	6.5	5	Y2H63AE1SA10300
	1/4 NPT	3/2 UNI	0 20	NBR	PBMR*1)	M20 x 1,5	Ex ia IIC T6	6.5	8	Y2H23PA1SA10300
	G 1/4	3/2 UNI	0 20	NBR	PBMR*1)	M20 x 1,5	Ex ia IIC T6	6.5	8	Y2H23PE1SA10300
	1/2 NPT	3/2 UNI	0 20	NBR	PBMR*1)	M20 x 1,5	Ex ia IIC T6	8	9	Y2H23PA3SA10300
	G 1/2	3/2 UNI	0 20	NBR	PBMR*1)	M20 x 1,5	Ex ia IIC T6	8	9	Y2H23PE3SA10300
14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1/4 NPT	5/2	0 20	NBR	Without	M20 x 1,5	Ex ia IIC T6	6.5	10	Y2H25AA1SA10300
	G 1/4	5/2	0 20	NBR	Without	M20 x 1,5	Ex ia IIC T6	6.5	10	Y2H25AE1SA10300

Other operators, pressures and functions available - please see product selector on page 2.

Other products and body materials available consult Maxseal technical service for further information.

*1) PBMR = Push button manual reset

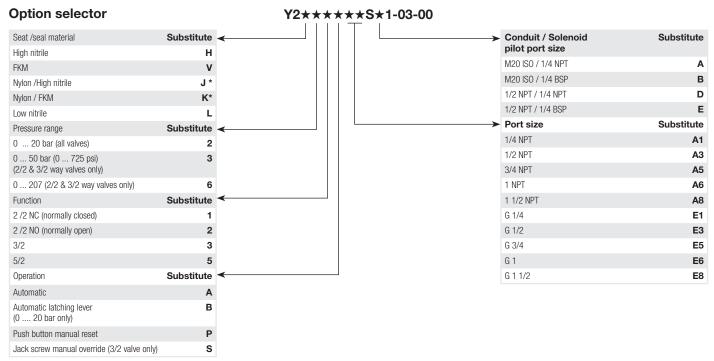




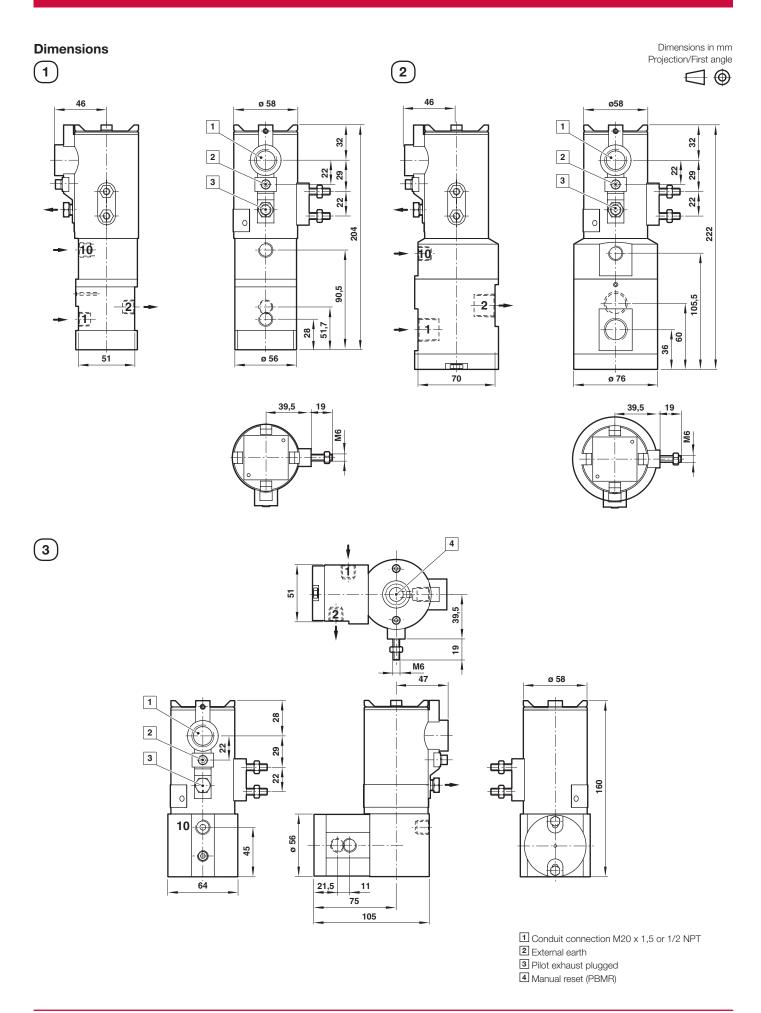
Technical data - solenoid operators

Nominal voltages	12 V d.c. via an energy limiting barrier
Pull-in voltage	≥ 87,5% of nominal
Response times	Pull-in < 150 ms, drop out < 80ms
Drop-out voltage	10 20% of nominal
Coil rating	340 ohms

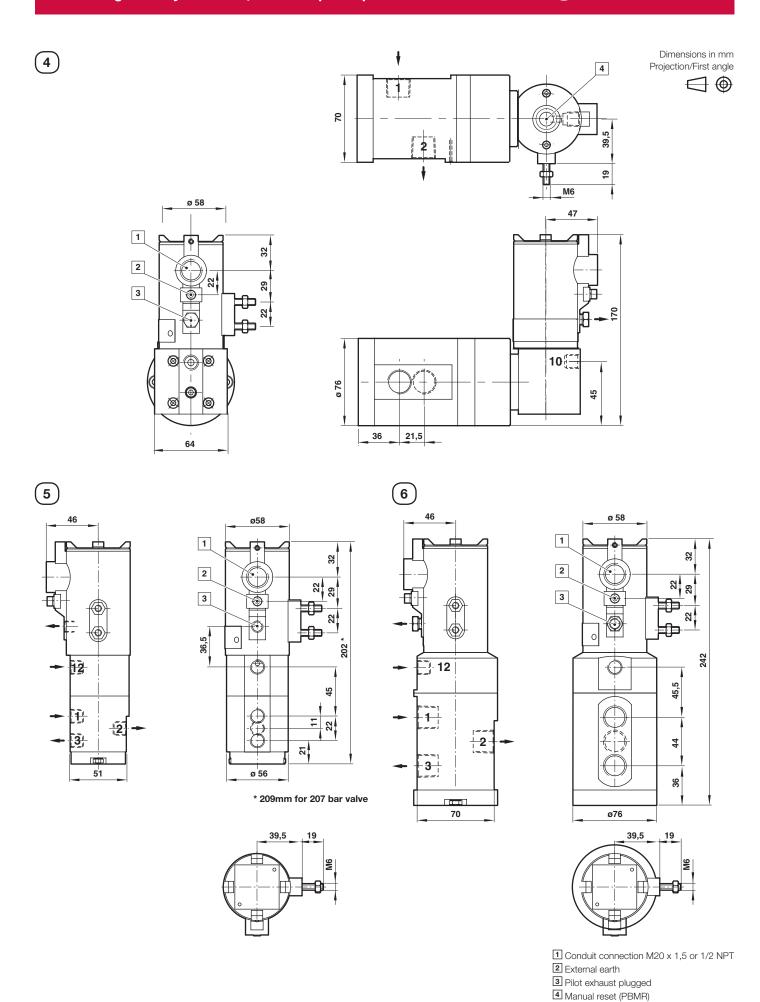
Power consumption	0,5 watts
Voltage protection	Surge suppression diodes fitted as standard
Coil encapsulation	Class H
Leak performance	Bubble tight
Coil duty cycle	100%



^{*} Greater than 50 bar operating pressure

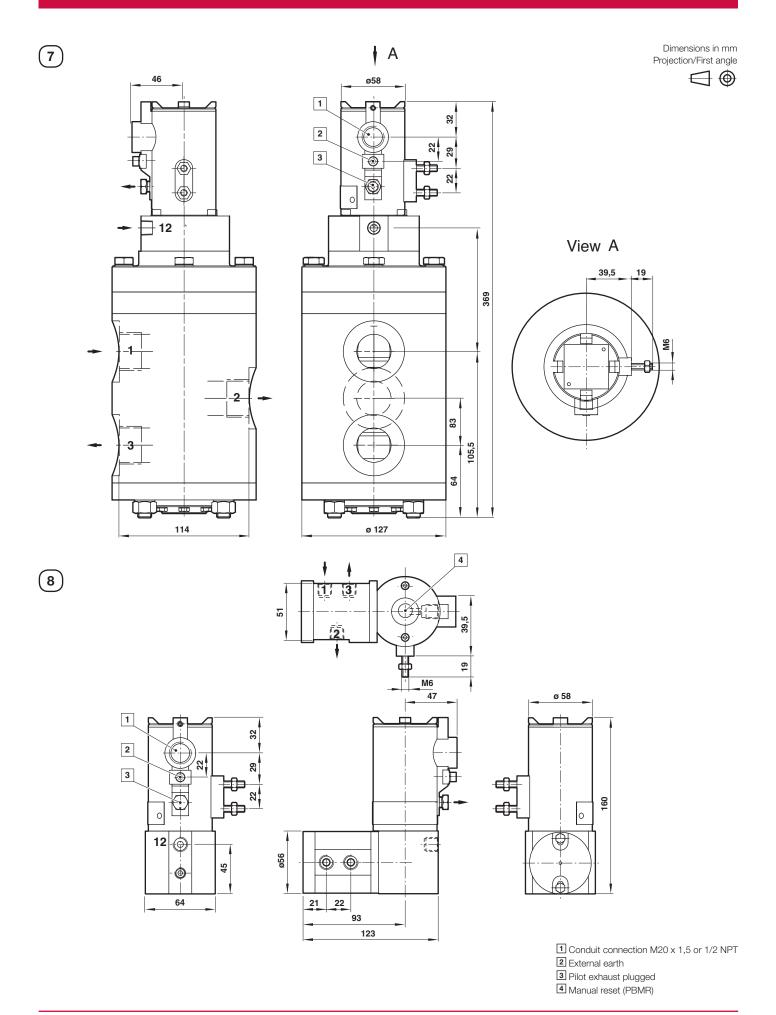






en 5.7.520.04

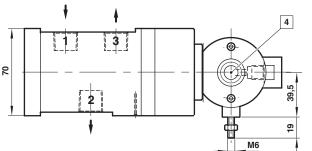






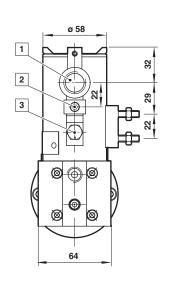


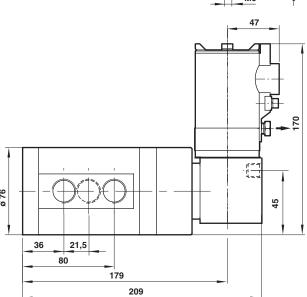




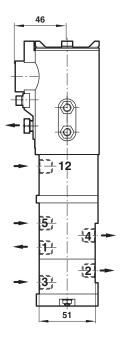


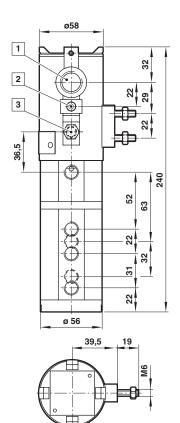






(10)





¹ Conduit connection M20 x 1,5 or 1/2 NPT

² External earth

³ Pilot exhaust plugged

⁴ Manual reset (PBMR)



Warning

These products are intended for use in industrial compressed air systems only. Do not use these products where pressures and temperatures can exceed those listed under

»Technical features/data«.

power systems can fail in various modes.

Before using these products with fluids other than those specified, for non-industrial applications, life-support systems or other applications not within published specifications, consult IMI Precision Engineering, Thompson Valves Ltd.

Through misuse, age, or malfunction, components used in fluid

The system designer is warned to consider the failure modes of all component parts used in fluid power systems and to provide adequate safeguards to prevent personal injury or damage to equipment in the event of such failure.

System designers must provide a warning to end users in the system instructional manual if protection against a failure mode cannot be adequately provided.

System designers and end users are cautioned to review specific warnings found in instruction sheets packed and shipped with these products.