

- > **Port size: 1/4" ... 3/4"**  
(ISO G/NPT)  
or manifold version
- > **Direct acting solenoid valve** for the control of hydraulic or pneumatic equipment
- > **High flow**
- > **Up to 414 bar inlet pressure**
- > **Reliable and long life,**  
ideal for a one time installation
- > **Certifications: ATEX,**  
CSA, CSA, TR CU,  
NEPSI, KOSHA, IECEX,  
FM, CRN,  
CCOE IN-METRO
- > **Environmental protection; NEMA 4X, IP66/X8**



### Technical features

#### Medium:

Hydraulic and pneumatic – customer to specify and confirm compatibility

#### Operation:

Direct solenoid operated poppet valves

#### Mounting position:

Solenoid vertical

#### Flow:

0,8 Cv (11,5 Kv) ... 5.0 Cv (72.0 Kv)

#### Port size:

1/4 NPT, 1/2 NPT, G1/4, G1/2 or manifold version

#### Operating pressure:

0 ... 20 bar (0 ... 290 psi)  
0 ... 50 bar (0 ... 725 psi)  
0 ... 207 bar (0 ... 3002 psi)  
0 ... 414 bar (0 ... 6004 psi)

#### Temperature:

Media:

-20 ... +90°C (-4 ... +194°F)

Options to -60°C (-76°F) available on request

Ambient:

See table on page 2

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)

Other trim and body materials available

O-rings seats & seals: high NBR

Other seal materials available on request

**Technical data – standard models with conduit connection M20 x 1,5**

Symbol	Port size	Function	Operating pressure (bar)	Material Seat seal	Manual override/ reset	ATEX certification	Power consumption 24 V d.c. (W)	Ambient temperature	Weight (kg)	Dimension No.	Model
	1/4 NPT	2/2 NC	0 ... 20	NBR	Without	Exd IIC T6	4,5	T6 (-60 ... +48°C), T4 (-60 ... +90°C)	5	1	Y121AA1H1*S
	G 1/4	2/2 NC	0 ... 20	NBR	Without	Exd IIC T6	4,5	T6 (-60 ... +48°C), T4 (-60 ... +90°C)	5	1	Y121AE1H1*S
	1/2 NPT	2/2 NC	0 ... 50	NBR	Without	Exd IIC T6	9,6	T6 (-60 ... +48°C), T4 (-60 ... +90°C)	7,5	2	Y131AA3H1*S
	G 1/2	2/2 NC	0 ... 50	NBR	Without	Exd IIC T6	9,6	T6 (-60 ... +48°C), T4 (-60 ... +90°C)	7,5	2	Y131AE3H1*S
	1/2 NPT	2/2 NC	30 ... 414	NBR	Without	Exd IIC T6	15,1	T6 (-60 ... +48°C), T4 (-60 ... +90°C)	7,5	3	Y191AA3J1*S
	G 1/2	2/2 NC	30 ... 414	NBR	Without	Exd IIC T6	15,1	T6 (-60 ... +48°C), T4 (-60 ... +90°C)	7,5	3	Y191AE3J1*S
	3/4 NPT	2/2 NC	0 ... 12	NBR	Without	Exd IIC T6	15,1	T6 (-60 ... +48°C), T4 (-60 ... +90°C)	10	4	Y113AA5H1*S
	G 3/4	2/2 NC	0 ... 12	NBR	Without	Exd IIC T6	15,1	T6 (-60 ... +48°C), T4 (-60 ... +90°C)	10	4	Y113AE5H1*S
	Manifold	2/2 NC	0 ... 207	NBR	Without	Exd IIC T6	9,6	T6 (-60 ... +48°C), T4 (-60 ... +90°C)	6	5	Y161AKFJ1*S
	Manifold	2/2 NC	0 ... 414	NBR	Without	Exd IIC T6	9,6	T6 (-60 ... +48°C), T4 (-60 ... +90°C)	6	5	Y191AKFJ1*S
	1/4 NPT	2/2 NC	0 ... 20	NBR	PBMR*	Exd IIC T6	4,5	T6 (-60 ... +48°C), T4 (-60 ... +90°C)	5,5	6	Y121PA1H1*S
	G 1/4	2/2 NC	0 ... 20	NBR	PBMR*	Exd IIC T6	4,5	T6 (-60 ... +48°C), T4 (-60 ... +90°C)	5,5	6	Y121PE1H1*S
	1/2 NPT	2/2 NC	0 ... 20	NBR	PBMR*	Exd IIC T6	4,5	T6 (-60 ... +48°C), T4 (-60 ... +90°C)	7,5	7	Y121PA3H1*S
	G 1/2	2/2 NC	0 ... 20	NBR	PBMR*	Exd IIC T6	4,5	T6 (-60 ... +48°C), T4 (-60 ... +90°C)	7,5	7	Y121PE3H1*S
	1/4 NPT	3/2 UNI	0 ... 20	NBR	Without	Exd IIC T6	4,5	T6 (-60 ... +48°C), T4 (-60 ... +90°C)	5,5	8	Y123AA1H1*S
	G 1/4	3/2 UNI	0 ... 20	NBR	Without	Exd IIC T6	4,5	T6 (-60 ... +48°C), T4 (-60 ... +90°C)	5,5	8	Y123AE1H1*S
	1/2 NPT	3/2 UNI	0 ... 20	NBR	Without	Exd IIC T6	9,6	T6 (-60 ... +48°C), T4 (-60 ... +90°C)	7,5	9	Y123AA3H1*S
	G 1/2	3/2 UNI	0 ... 20	NBR	Without	Exd IIC T6	9,6	T6 (-60 ... +48°C), T4 (-60 ... +90°C)	7,5	9	Y123AE3H1*S
	3/4 NPT	3/2 UNI	0 ... 12	NBR	Without	Exd IIC T6	15,1	T6 (-60 ... +48°C), T4 (-60 ... +90°C)	10	10	Y113AA5H1*S
	G 3/4	3/2 UNI	0 ... 12	NBR	Without	Exd IIC T6	15,1	T6 (-60 ... +48°C), T4 (-60 ... +90°C)	10	10	Y113AE5H1*S
	1/4 NPT	3/2 UNI	0 ... 20	NBR	PBMR*	Exd IIC T6	4,5	T6 (-60 ... +48°C), T4 (-60 ... +90°C)	5,5	11	Y123PA1H1*S
	G 1/4	3/2 UNI	0 ... 20	NBR	PBMR*	Exd IIC T6	4,5	T6 (-60 ... +48°C), T4 (-60 ... +90°C)	5,5	11	Y123PE1H1*S
	1/2 NPT	3/2 UNI	0 ... 20	NBR	PBMR*	Exd IIC T6	6,0	T6 (-60 ... +48°C), T4 (-60 ... +90°C)	7,5	12	Y123PA3H1*S
	G 1/2	3/2 UNI	0 ... 20	NBR	PBMR*	Exd IIC T6	6,0	T6 (-60 ... +48°C), T4 (-60 ... +90°C)	7,5	12	Y123PE3H1*S
	1/4 NPT	3/2 UNI	0 ... 20	NBR	A-L-L*	Exd IIC T6	4,5	T6 (-60 ... +48°C), T4 (-60 ... +90°C)	5,5	13	Y123BA1H1*S
	G 1/4	3/2 UNI	0 ... 20	NBR	A-L-L*	Exd IIC T6	4,5	T6 (-60 ... +48°C), T4 (-60 ... +90°C)	5,5	13	Y123BE1H1*S
	1/2 NPT	3/2 UNI	0 ... 20	NBR	A-L-L*	Exd IIC T6	15,1	T6 (-60 ... +48°C), T4 (-60 ... +90°C)	7,5	14	Y123BA3H1*S
	G 1/2	3/2 UNI	0 ... 20	NBR	A-L-L*	Exd IIC T6	15,1	T6 (-60 ... +48°C), T4 (-60 ... +90°C)	7,5	14	Y123BE3H1*S
	1/4 NPT	3/2 UNI	0 ... 20	NBR	JSMO*	Exd IIC T6	4,5	T6 (-60 ... +48°C), T4 (-60 ... +90°C)	5,5	15	Y123SA1H1*S
	G 1/4	3/2 UNI	0 ... 20	NBR	JSMO*	Exd IIC T6	4,5	T6 (-60 ... +48°C), T4 (-60 ... +90°C)	5,5	15	Y123SE1H1*S
	1/2 NPT	5/2 UNI	0 ... 12	NBR	Without	Exd IIC T6	7,5	T6 (-60 ... +48°C), T4 (-60 ... +90°C)	7,5	16	Y115AA3H1*S
	G 1/2	5/2 UNI	0 ... 12	NBR	Without	Exd IIC T6	7,5	T6 (-60 ... +48°C), T4 (-60 ... +90°C)	7,5	16	Y115AE3H1*S

\* Insert voltage code - shown in option selector on page 3

Other product and body material available for more information contact Maxseal technical service

PBMR = Push button manual reset, A-L-L = Automatic latching lever, JSMO = Jack screw manual override



## Option selector

Y1★★★★★★S

Operating pressure	Substitute
0 ... 12 bar (0 ... 175 psi)	1
0 ... 20 bar (0 ... 290 psi)	2
0 ... 50 bar (0 ... 725 psi)	3
0 ... 207 bar (0 ... 3002 psi)	6
0 ... 414 bar	9
Number of ports	Substitute
2 /2 NC (standard)	1
2 /2 NO	2
3/2 NC (universal)	3
5/2	5
Operation	Substitute
Automatic	A
Automatic latching lever	B
Push button manual override	C
Lever manual reset (414 bar only)	L
Lever manual override (414 bar only)	M
Push button manual reset	P
Jack screw manual override	S
Tamper proof manual reset	T
Port size	Substitute
1/4 NPT	A1
G 1/4	E1
1/2 NPT	A3
G 1/2	E3
3/4 NPT	A5
G 3/4	E5
Manifold	KF

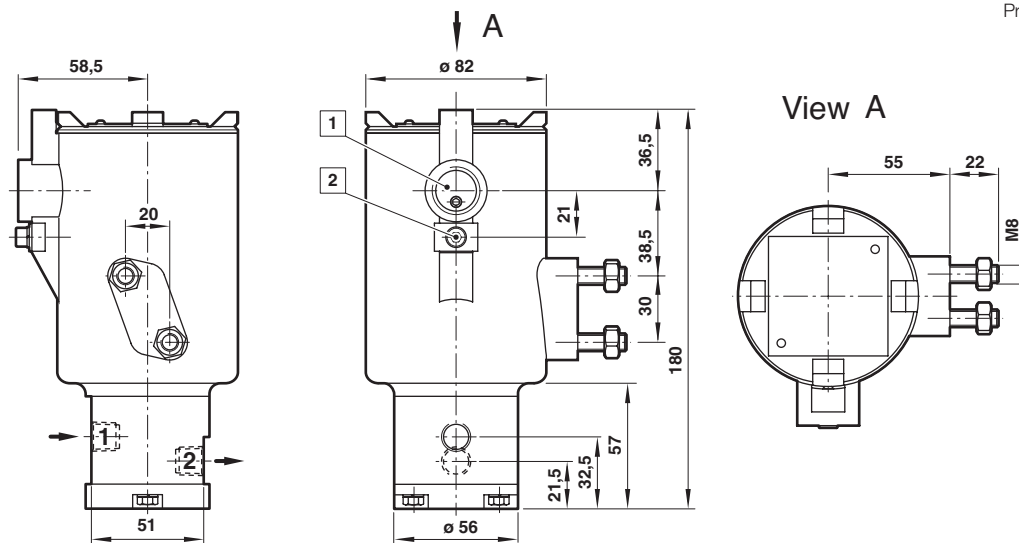
Voltage	Substitute
18 /33 V d.c.	A
24 V d.c.	B
48 /50 V d.c. (50 V)	C
110 V d.c.	D
125 V d.c.	E
220 /240 V d.c. (240 V)	F
24 V a.c.	G
110 V a.c.	J
12 V d.c.	L
220 /240 V a.c. (240 V)	M
Conduit connection	Substitute
M20 x 1.5 mm	1
1/2 NPT	2
Seat /seal material	Substitute
High Nitrile (standard)	H
FKM	V

## Dimensions

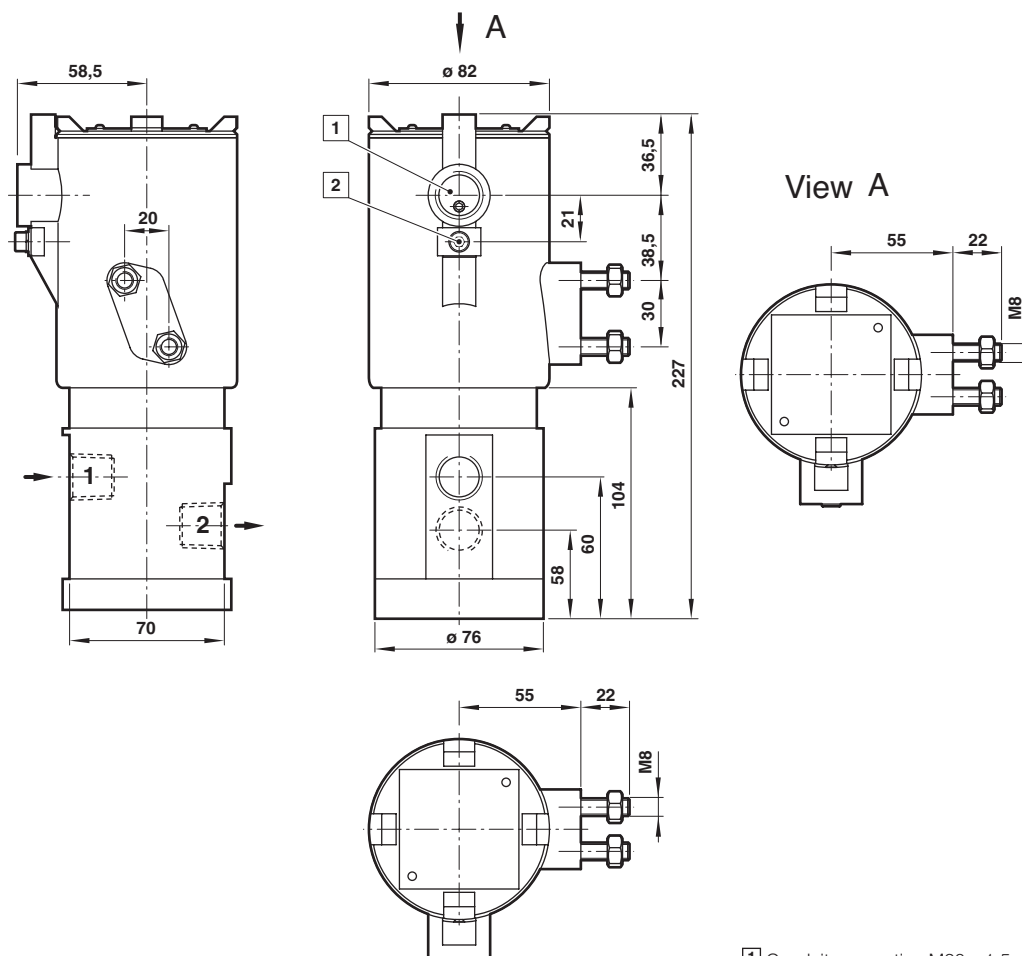
Dimensions in mm  
Projection/First angle



1



2

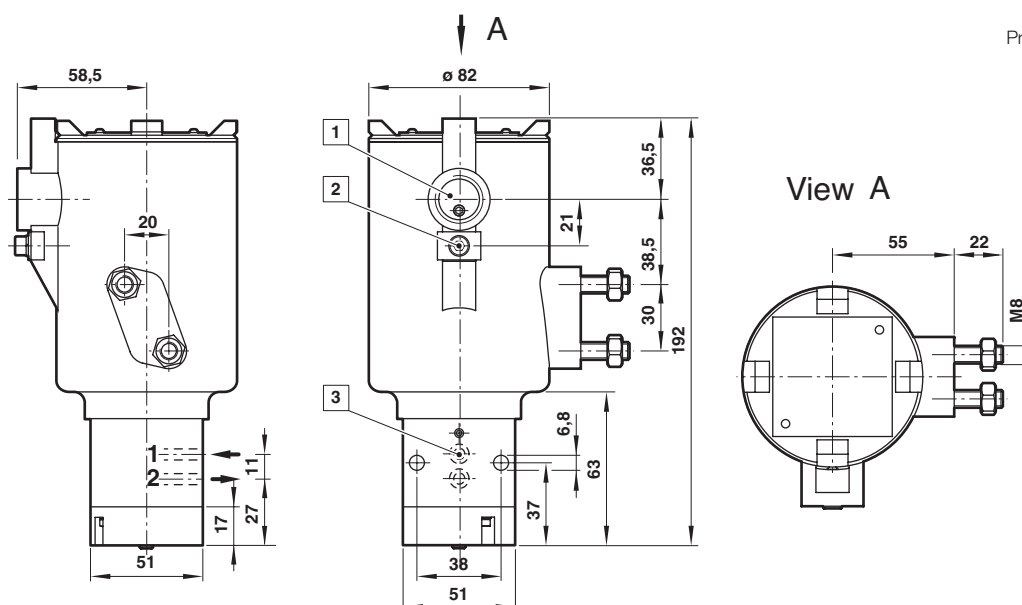


- 1 Conduit connection M20 x 1,5 or 1/2 NPT
- 2 External earth

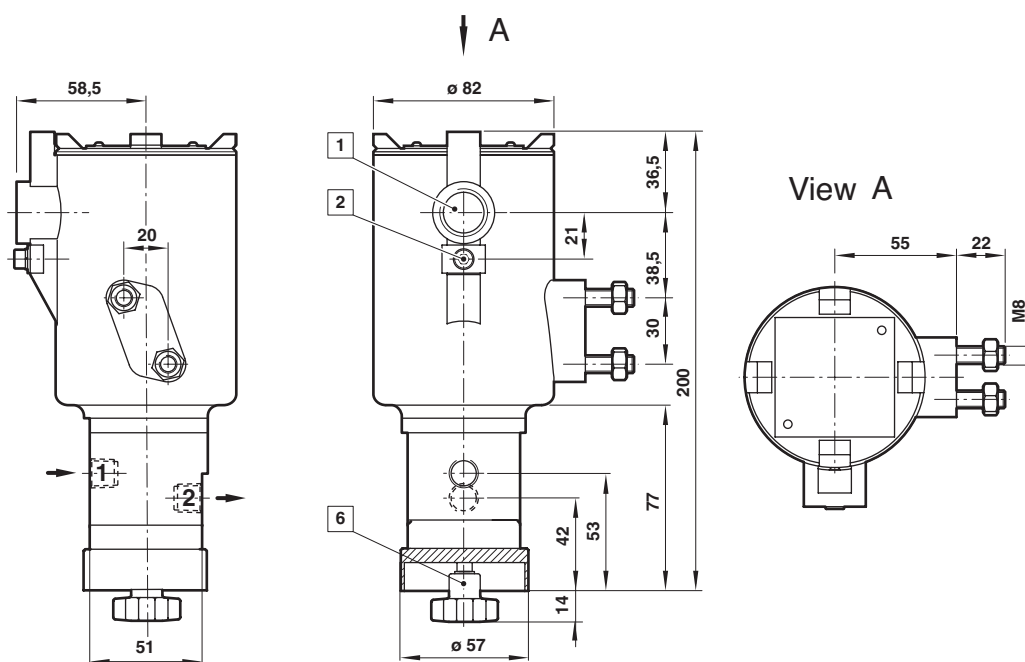
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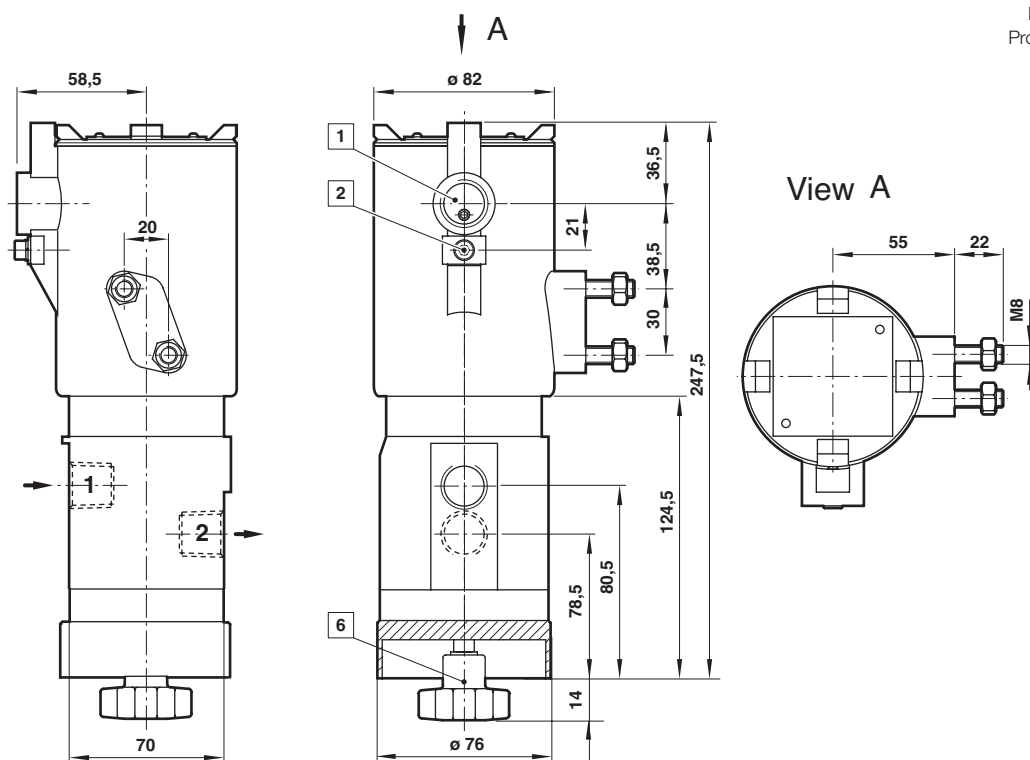
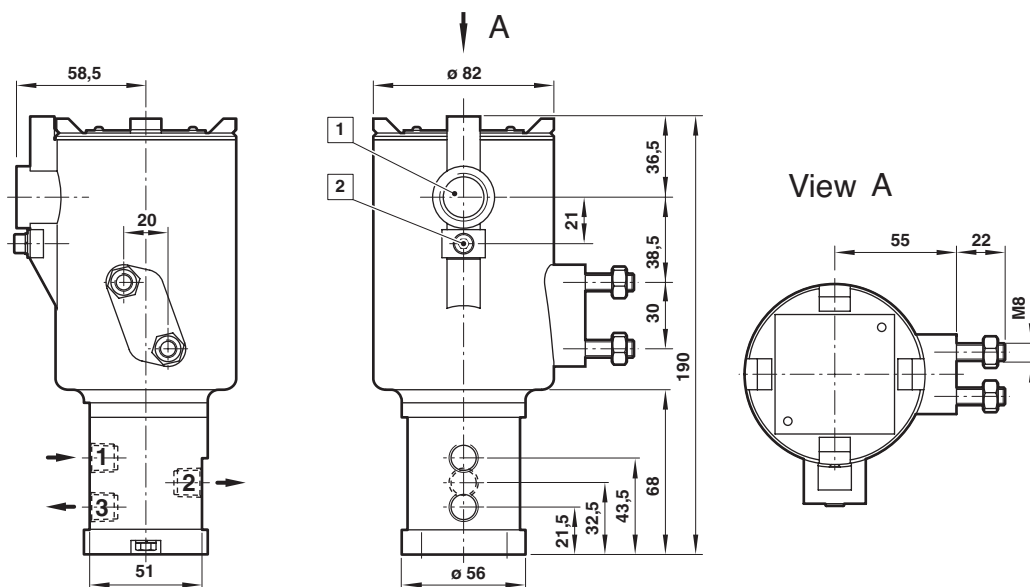
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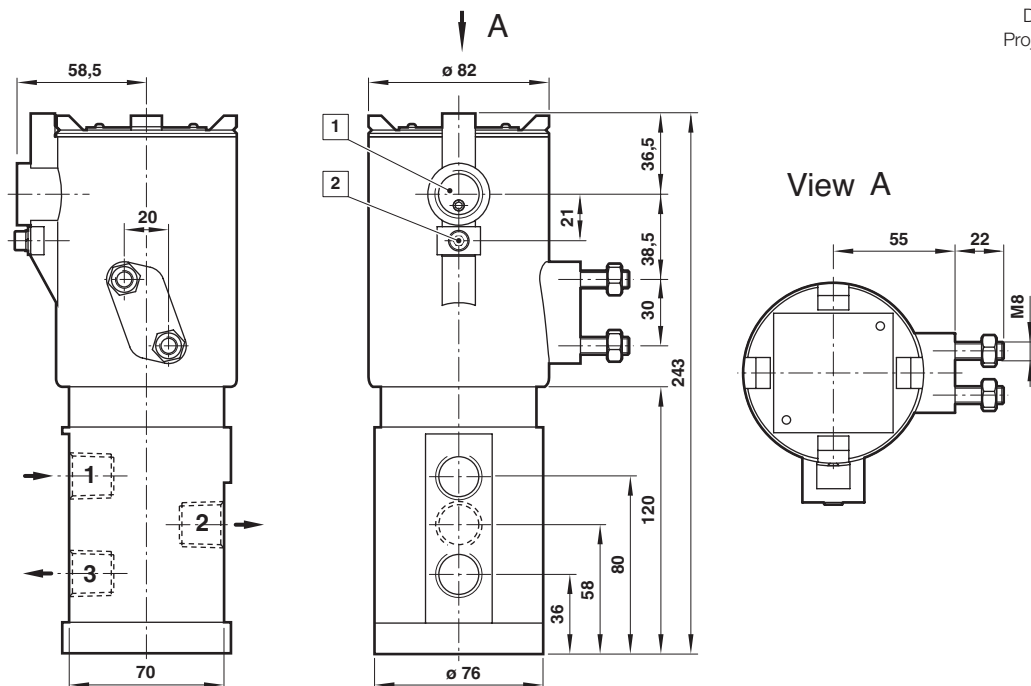


- 1 Conduit connection M20 x 1,5 or 1/2 NPT
- 2 External earth
- 3  $\varnothing$  5 mm drilled ports supplied with O-rings
- 6 Push button manual reset

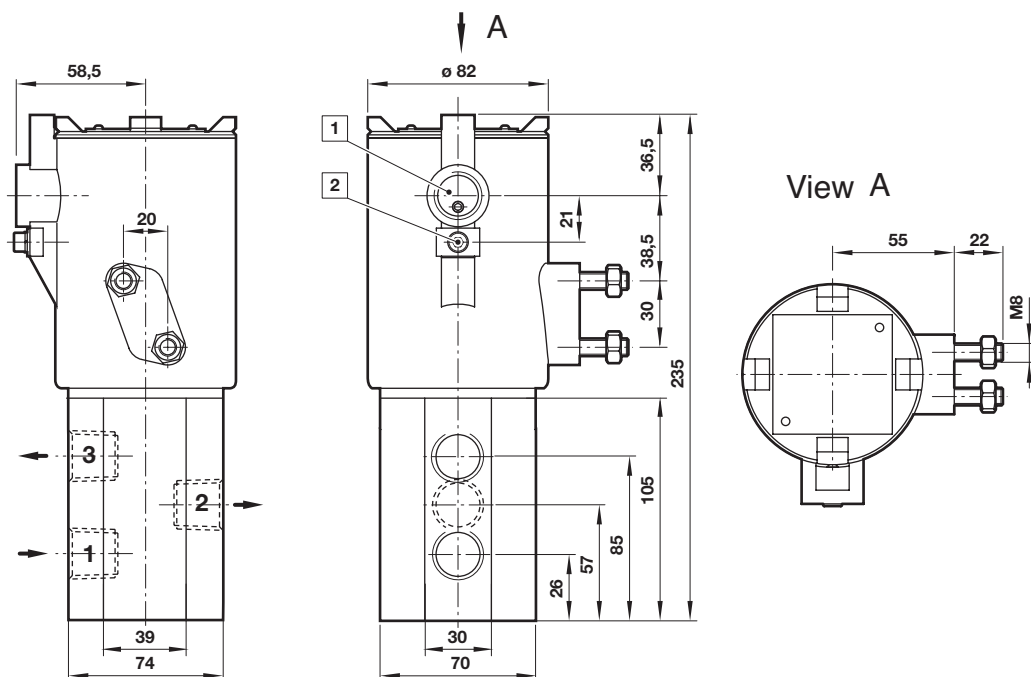
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**8**


- 1 Conduit connection M20 x 1,5 or 1/2 NPT
- 2 External earth
- 6 Push button manual reset

9

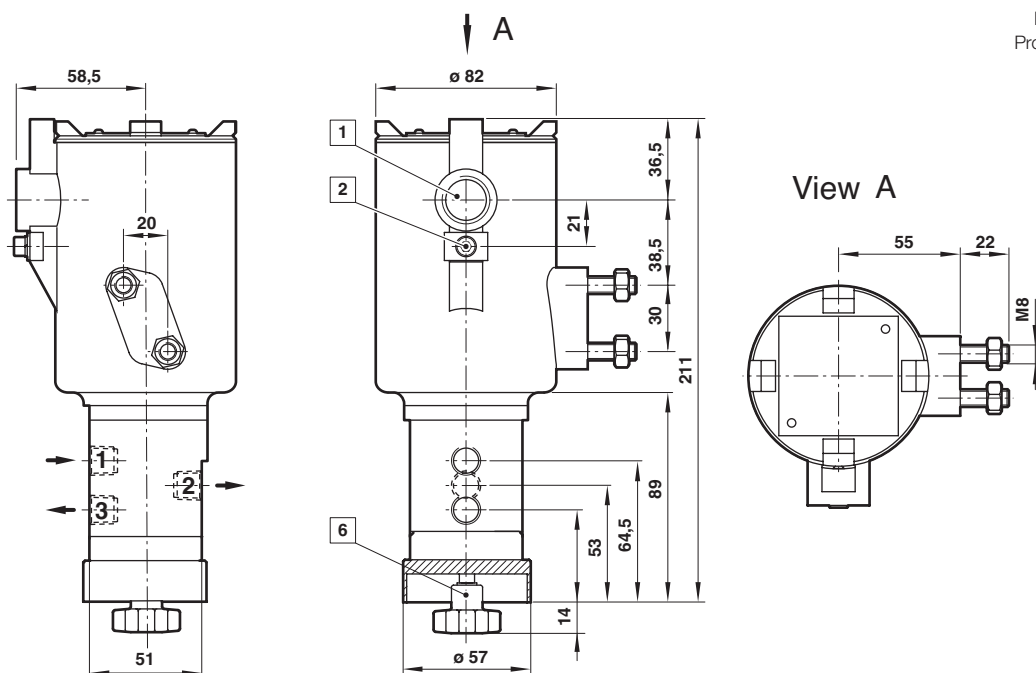
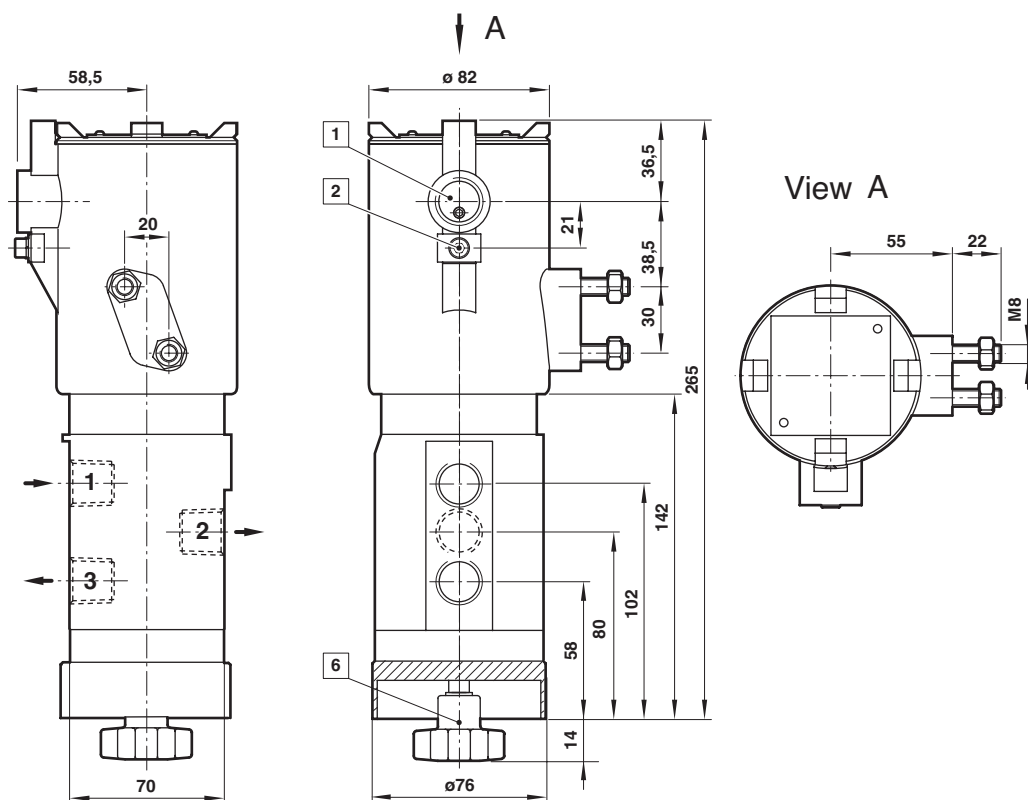


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- 1 Conduit connection M20 x 1,5 or 1/2 NPT
- 2 External earth



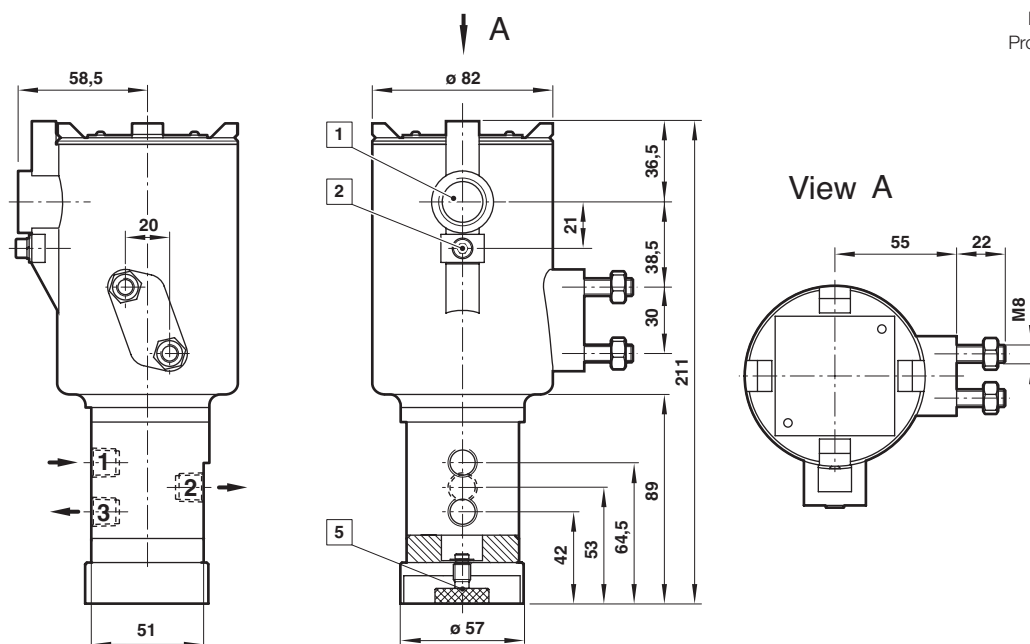
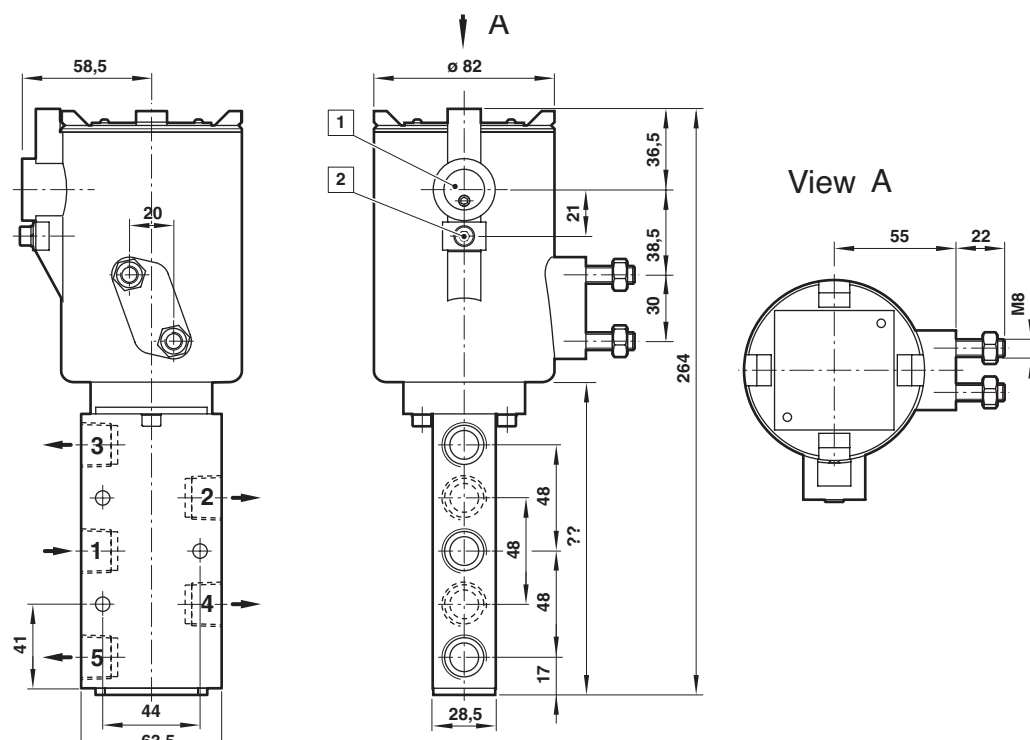
**11**

**12**


- 1 Conduit connection M20 x 1,5 or 1/2 NPT
- 2 External earth
- 6 Push button manual reset



View A

- 5/19

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**16**


- 1 Conduit connection M20 x 1,5 or 1/2 NPT
- 2 External earth
- 5 Jack screw manual override