

26360, 80207
3/2, 5/2 & 5/3 spool valves
electromagnetic actuated, indirectly controlled
G 1/4 & G 1/2

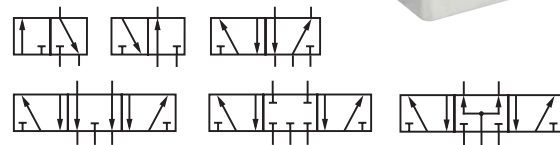
Compact design

Easily interchangeable solenoid

Standard manual override

All valves available with Ex protected coils (ATEX or other international approvals)

Maintenance-free



Technical features

Medium:

Compressed air, filtered, lubricated or non-lubricated

Operation:

Indirect solenoid operated T-spool valves

Operating pressure:

Siehe Ventilauswahl

Port size:

G 1/4, G 1/2

Orifice:

6 and 12 mm

Electrical connection:

Connector acc.to DIN EN 175301-803, Form A and B

Flow direction:

Fixed

Mounting:

Optional, preferably with solenoid on top

Fluid/Ambient temperature:

-10 ... +60°C

Depending on solenoid system
 Air supply must be dry enough to avoid ice formation at temperatures below +2°C.

Materials:

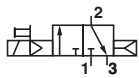
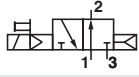
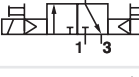
Housing: aluminium anodized
 Pilot flange: plastic (POM)
 Seals: NBR (Perbunan)

Other versions available on request

Low power 3 Watt
 Other voltages
 Additional international approvals
 Pilot operated valves
 NPT threaded
 Temperature range up to -20°C

Technical data

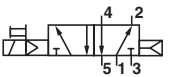
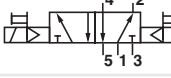
3/2 way

Symbol	Port size	Function	Operation/return	Flow (l/min)	Operating pressure (bar)	Switching time (ms)	Weight without Solenoid (kg)	Dimension No.	Model
	G 1/4	NC	Solenoid / Air spring	1200	1 ... 10	20	0,4	1	8020750... *1)
	G 1/2	NC	Solenoid/Air spring	3000	1,5 ... 10	25	0,7	1	8020850... *1)
	G 1/4	NO	Solenoid/Air spring	1200	1 ... 10	20	0,4	1	8022750... *1)
	G 1/2	NO	Solenoid/Air spring	3000	1,5 ... 10	25	0,7	1	8022850... *1)
	G 1/4	NC	Solenoid/Solenoid	1200	1 ... 10	15	0,77	2	8021750... *2)
	G 1/2	NC	Solenoid/Solenoid	3000	1 ... 10	20	0,99	2	8021950... *2)

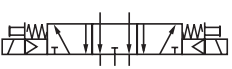
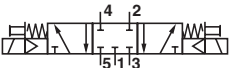
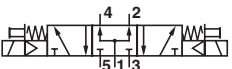
*1) Exhaust port can not be throttled.

*2) Exhaust port can be throttled.





5/2 way

Symbol	Port size	Function	Operation/return	Flow (l/min)	Operating pressure (bar)	Switching time (ms)	Weight without Solenoid (kg)	Dimension No.	Model
	G 1/4		Solenoid/Air spring	1200	1 ... 10	20	0,55	3	2636000...
	G 1/2		Solenoid/Air spring	3000	2 ... 10	25	0,83	3	2637050...
	G 1/4		Solenoid/Solenoid	1200	1 ... 10	15	0,9	4	2636200...
	G 1/2		Solenoid/Solenoid	3000	2 ... 10	20	1,3	4	2637250...

Technical data
5/3 way

Symbol	Port size	Function	Operation/return	Flow (l/min)	Operating pressure (bar)	Switching time (ms)	Weight without Solenoid (kg)	Dimension No.	Model
	G 1/4	COE	Solenoid/Solenoid	900	3 ... 10	30	1	5	2636300
	G 1/2	COE	Solenoid/Solenoid	2200	2,5 ... 10	55	1,6	5	2637300
	G 1/4	APB	Solenoid/Solenoid	900	3 ... 10	30	1	5	2636404
	G 1/2	APB	Solenoid/Solenoid	2200	2,5 ... 10	55	1,6	5	2637400
	G 1/4	COP	Solenoid/Solenoid	900	3 ... 10	25	1	5	2636500

Solenoid operators

	Power consumption		Current 24 V d.c. (mA)	230 V a.c. (mA)	Ex-Protection (ATEX- Category)	Protection class *7)	Temperature Ambient/ Fluid (°C)	Electrical connection	Weight (kg)	Dimension No.	Circuit diagram No.	Model
	24 V d.c. (W)	230 V d.c. (VA)										
	8,0	-	331	-	-	IP 65 (with connector) *5)	-25 ... +60 Fluid: max. 80	Connector DIN EN 175301-803 Form A *6)	0,15	1	1	0246
	-	9,2	-	40	-	IP 65 (with connector) *5)	-25 ... +60 Fluid: max. 80	Connector DIN EN 175301-803 Form A *6)	0,16	2	6	3206
	8,0	-	331	-	II3G II3D	Ex nA II T4 Ex tD A22 IP65 T 110°C	-20 ... +60	Special connector DIN EN 175301-803 Form A included in delivery	0,16	1	1	3216
	-	9,2	-	40	II3G II3D	Ex nA II T4 Ex tD A22 IP65 T 110°C	-20 ... +60	Special connector DIN EN 175301-803 Form A included in delivery	0,16	1	6	3218
	6,9	-	289	-	II2G II2D	Ex mb II T4 Ex tD A21 IP66 T 110°C *1)	-20 ... +60	Cable, 3 m long	0,4	5	4	0292 *8)
	-	8,7	-	34	II2G II2D	Ex mb II T4 Ex tD A21 IP66 T 110°C *1)	-20 ... +60	Cable, 3 m long	0,4	5	7	0293 *8)
	5,5	-	-	228	-	XP/DIP, Div. 1 & 2 Cl. I, Gr. A-D Cl. II/III, Gr. E-G T3 (160°C) *4) NEMA 4, 4X, 6, 6P, 7, 9	-20 ... +60	Flying leads 450 mm long	0,5	8	1	3722
	-	5,9	-	26	-	XP/DIP, Div. 1 & 2 Cl. I, Gr. A-D Cl. II/III, Gr. E-G T3 (160°C) *4) NEMA 4, 4X, 6, 6P, 7, 9	-20 ... +60	Flying leads 450 mm long	0,5	8	5	3723

Standard voltages 24 V d.c., 230 V a.c., other voltages on request. Design according to VDE 0580, EN 50014/50028. 100% duty cycle.

*1) EG-Type-Examination-Certificate PTB 06 ATEX 2054 X



*4) CSA-LR 57643-6, FM Approval

*5) Required connector: Type 0570275

*6) Connector/cable gland not supplied, see table »Accessories«

*7) IP-Protection class according to EN60529

Solenoid operators

	Power consumption		Current		Ex-Protection (ATEX-Category)	Protection class *7)	Temperature Ambient/ Fluid [°C]	Electrical connection	Weight (kg)	Dimension No.	Circuit diagram No.	Model
	24 V d.c. (W)	230 V d.c. (VA)	24 V d.c. (mA)	230 V a.c. (mA)								
	8,9	-	369	-	I12G I12D	Ex emb II T4/T5 Ex tD A21 IP66 T130°C *2), *10)	-40 ... +65 T4 -40 ... +55 T5 -40 ... +65	M20 x 1,5 *6)	0,5	6	4	4220 *8)
	-	10,0	-	43	I12G I12D	Ex emb II T4/T5 Ex tD A21 IP66 T130°C *2), *10)	-40 ... +65 T4 -40 ... +55 T5 -40 ... +65	M20 x 1,5 *6)	0,5	6	7	4221 *8)
	8,9	-	369	-	I12G I12D	Ex dmb IIC T4/T6 Ex emb II T4/T6 Ex tD A21 IP66 T130°C *3)	-40 ... +70 T4 -40 ... +40 T6 -40 ... +70	1/2-14 NPT *6)	0,8	7	4	4620 *8)
	-	10,0	-	43	I12G I12D	Ex dmb IIC T4/T6 Ex emb II T4/T6 Ex tD A21 IP66 T130°C *3)	-40 ... +70 T4 -40 ... +40 T6 -40 ... +70	1/2-14 NPT *6)	0,8	7	7	4621 *8)
	8,9	-	369	-	I12G I12D	Ex dmb IIC T4/T6 Ex emb II T4/T6 Ex tD A21 IP66 T130°C *3)	-40 ... +70 T4 -40 ... +40 T6 -40 ... +70	M20 x 1,5 *6)	0,8	7	4	4622 *8)
	-	10,0	-	43	I12G I12D	Ex dmb IIC T4/T6 Ex emb II T4/T6 Ex tD A21 IP66 T130°C *3)	-40 ... +70 T4 -40 ... +40 T6 -40 ... +70	M20 x 1,5 *6)	0,8	7	7	4623 *8)

Standard voltages 24 V d.c., 230 V a.c., other voltages on request. Design according to VDE 0580, EN 50014/50028. 100% duty cycle.

- *1) EG-Type-Examination-Certificate PTB 06 ATEX 2054 X
- *2) EG-Type-Examination-Certificate KEMA 98 ATEX 4452 X
- *3) EG-Type-Examination-Certificate PTB 02 ATEX 2085 X
- *4) CSA-LR 57643-6, FM Approval
- *5) Required connector: Type 0570275
- *6) Cable gland not supplied, see table »Accessories«
- *7) IP-Protection class according to EN60529
- *10) IEC Ex Certificate of Conformity

Attention:

The protection class for coil series 46xx and 42xx is determined by the choice of cable gland.

Example: if an ATEX-certified cable gland is used that has Ex d Type of protection, the solenoid will have the protection class Ex dmb; if a cable gland with Ex e Type of protection is used, the solenoid will have protection class Ex emb.

Accessories

Cable gland
Protection class Ex e, Ex d (ATEX),
Nickel plated brass



Silencer



Connector



Dimensions

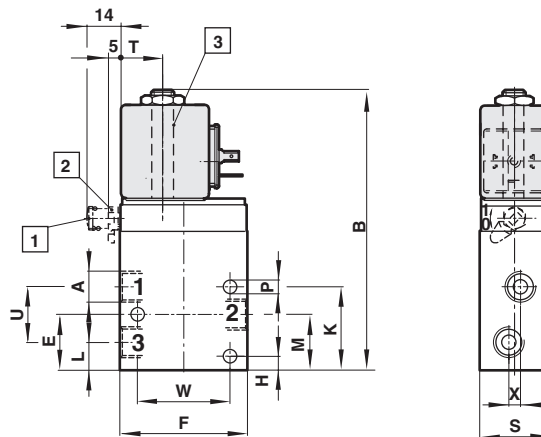
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	Cable Ø	Material	Protection class (ATEX)	Model		
M 20x1,5	10...14 mm	Nickel plated brass	I12GD Ex d	0588851	0014600 (G1/4) *1)	0663303 (with rectifier)
M 20x1,5	5,0...8,0 mm	Nickel plated brass	I12GD Ex e	0588819	0014700 (G1/2) *1)	0570275
1/2...1/4 NPT	7,5...11,9 mm	Nickel plated brass	I12GD Ex d, Ex e	0588925		

*1) For indoors use

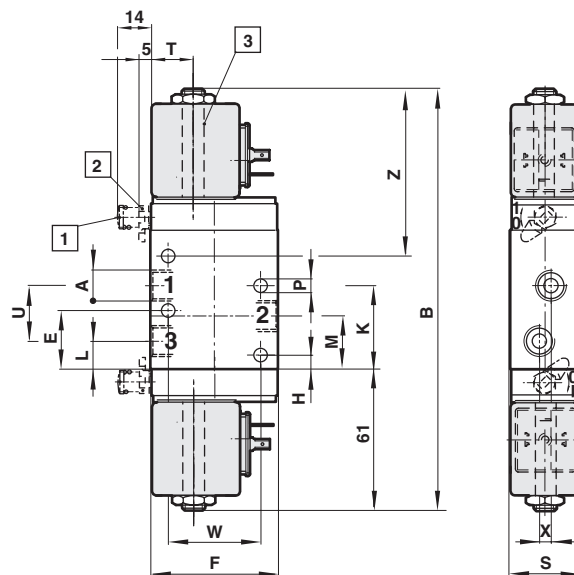
Dimensions
Valves

1



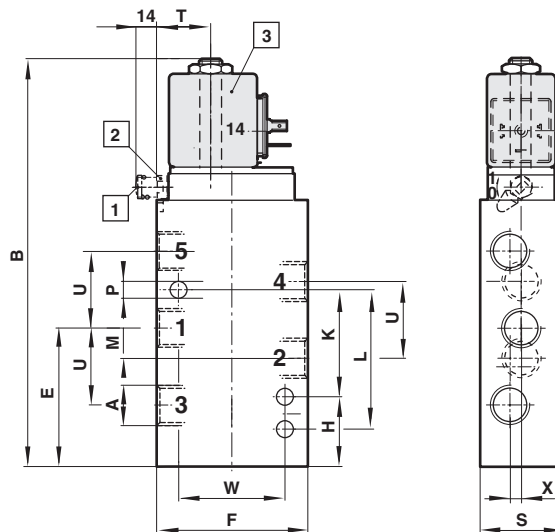
A	B	E	F	H	K	L	M	øP	S	T	U	W	X	Model
G1/4	120	24,5	55	7,5	34,5	11	23	5,5	30	18,5	24	41	5	8020750
G1/4	120	24,5	55	7,5	34,5	11	23	5,5	30	18,5	24	41	5	8022750
G1/2	147	77,5	65	31,5	-	29	50	7	35	23,5	33	46	-	8020850
G1/2	147	77,5	65	31,5	-	29	50	7	35	23,5	33	46	-	8022850

2

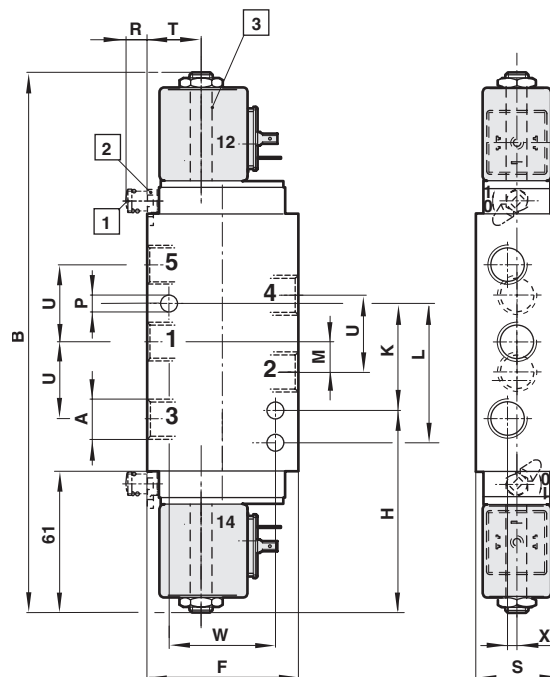


- 1 Manual override without detent
- 2 Manual override with detent
- 3 Solenoid 4 x 90° turnable

A	B	E	F	H	K	L	M	øP	S	T	U	W	X	Z	Model
G1/4	196	38,5	55	21,5	48,5	25	37	5,5	30	18,5	24	41	5	-	8021750
G1/2	205	-	65	26,5	-	25	44	7	35	23,5	33	46	2,5	69,5	8021950

3


A	B	E	F	H	K	L	M	øP	R	S	T	U	W	X	Model
G1/4	144	35	55	5	67	-	12	7	14	30	18,5	24	40	5	2636000...
G1/2	175	59,5	65	30	46	60	13	7	7,5	35	24,5	33	46	3,2	2637050...

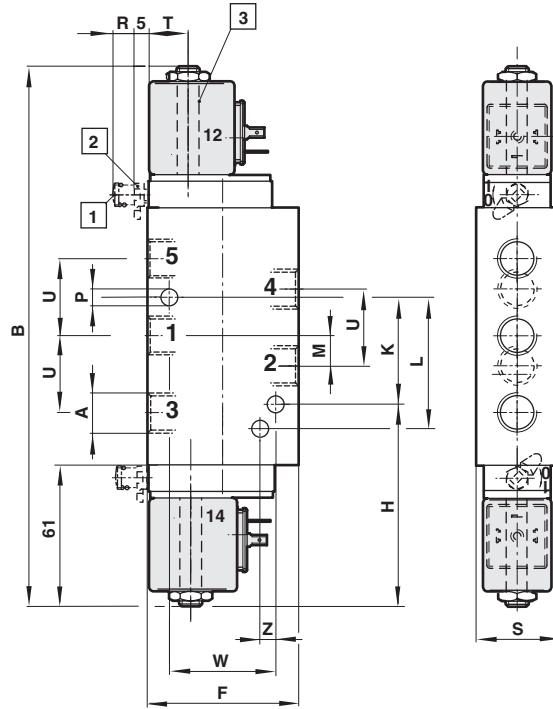
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- 1 Manual override without detent
- 2 Manual override with detent
- 3 Solenoid 4 x 90° turnable

A	B	F	H	K	L	M	øP	R	S	T	U	W	X	Model
G1/4	224	55	82	67	-	12	7	14	30	18,5	24	40	5	2636200...
G1/2	231	65	86	46	60	13	7	7,5	35	24,5	33	46	3,2	2637250...

Dimensions

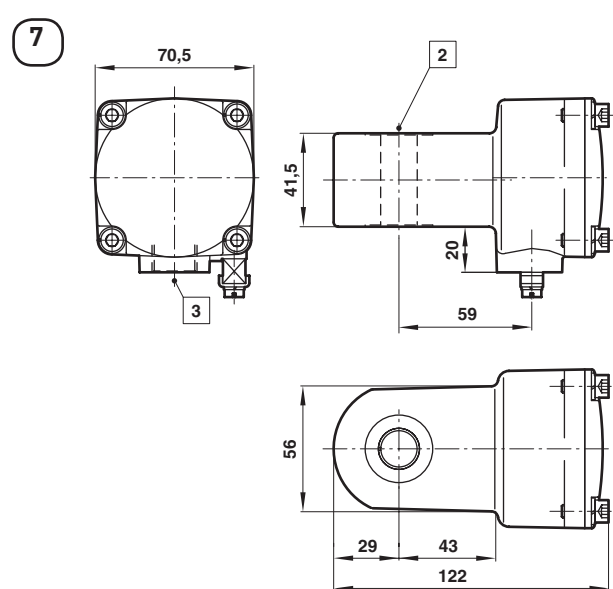
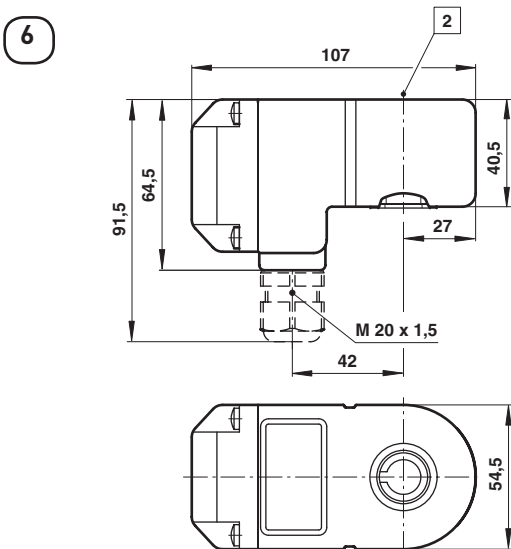
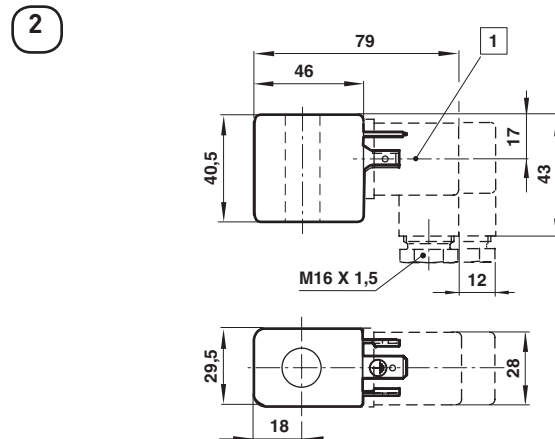
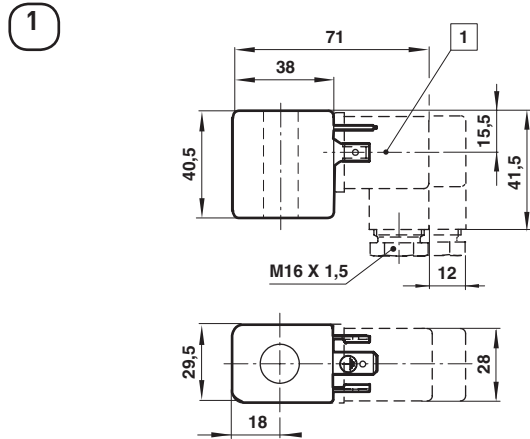
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- 1 Manual override without detent
- 2 Manual override with detent
- 3 Solenoid 4 x 90° turnable

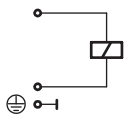
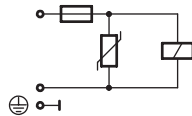
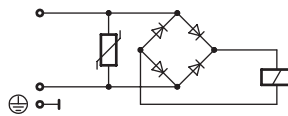
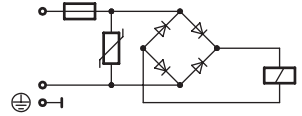
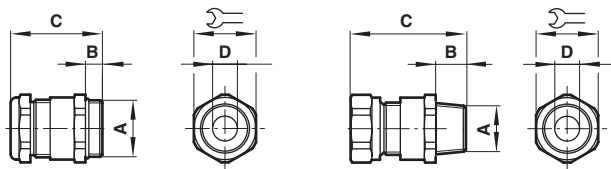
A	B	F	H	K	L	M	øP	R	S	T	U	W	X	Z	Model
G1/4	245	55	92,5	67	-	12	7	14	30	18,5	24	40	5	-	2636300...
															2636404...
															2636500...
G1/2	296	70	106	50	60	16,5	7	18,5	40	18,5	33	50	-	5	2637300...
															2637400...

**Dimensions
Solenoid operators**




① Connector can be indexed by 4x90°

② \varnothing 13 (with spacer tube)

Circuit diagramm
1

4

6

7

Cable gland


0588925 only

A	B	C	∅ D		Model
M20 x 1,5	9	36	5 ... 8	22	0588819
M20 x 1,5	14	39	10 ... 14	24	0588851
1/2-14 NPT	15	58	7,5 ... 11,9	24	0588925

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**«.

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 NORGREN.

Through misuse, age, or malfunction, components used in fluid power systems can fail in various modes.

The system designer is warned to consider the failure modes of all component parts used in pneumatic 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.