

3/2 directional control valves
Actuation: electromagnetic
Indirectly-controlled poppet valves
Port size G1/2 to G2

High flow rate
Optionally air pilot operated
High repeatability of switching time
Easily interchangeable solenoid system



Technical data

Medium:
 Compressed air, filtered, lubricated or non-lubricated

Operation:
 Solenoid operated, indirectly controlled

Mounting position:
 Optional, preferably vertical; with strong vibration vertical to axis of vibration

Operating pressure:
 10 bar max.

Nominal size:
 15 to 50 mm

Construction:
 Poppet valve

Port size:
 G1/2 to G2

Operating temperature:
 -10 to +60°C
 *Please contact our technical service for use below +2°C.

Flow direction:
 Fixed

Materials

Housing: aluminium
 Sealing: polyurethane (AU)
 Inner parts: POM

Ordering example

See page 2

Further versions

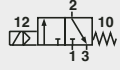

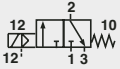
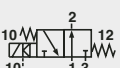
With manual override
 Double coil

Connectors

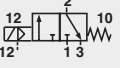
See data sheet N/UK 7.7.002



General information

Symbol	Type*	Port			Nominal size	Operating pressure (bar)		Control pressure (bar)		Flow (l/min)	Switching time (ms)	Weight (kg)
		1	2	3		min.	max.	min.	max.			
	8026570	G 1/2	G 1/2	G 3/4	15	2	10	–	–	5000	10	1,3
	8026670	G 3/4	G 3/4	G 1	20	2	10	–	–	8000	10	1,5
	8026770	G 1	G 1	G 1	25	2	10	–	–	12000	10	1,5
	8026870	G 1	G 1 1/4	G 1 1/4	32	2	10	–	–	18000	12	3,0
	8026970	G 1 1/2	G 1 1/2	G 1 1/2	40	2	10	–	–	25000	15	3,8
	8027070	G 2	G 2	G 2	50	2	10	–	–	35000	20	6,8
	8028570	G 1/2	G 1/2	G 3/4	15	2	10	–	–	5000	10	1,3
	8028670	G 3/4	G 3/4	G 1	20	2	10	–	–	8000	10	1,5
	8028770	G 1	G 1	G 1	25	2	10	–	–	12000	10	1,5
	8028870	G 1	G 1 1/4	G 1 1/4	32	2	10	–	–	18000	12	3,0
	8028970	G 1 1/2	G 1 1/2	G 1 1/2	40	2	10	–	–	25000	15	3,8
	8029070	G 2	G 2	G 2	50	2	10	–	–	35000	20	6,8
	8026571	G 1/2	G 1/2	G 3/4	15	0	10	2	10	5000	10	1,3
	8026671	G 3/4	G 3/4	G 1	20	0	10	2	10	8000	10	1,5
	8026771	G 1	G 1	G 1	25	0	10	2	10	12000	10	1,5
	8026871	G 1	G 1 1/4	G 1 1/4	32	0	10	2	10	18000	12	3,0
	8026971	G 1 1/2	G 1 1/2	G 1 1/2	40	0	10	2	10	25000	15	3,8
	8027071	G 2	G 2	G 2	50	0	10	2	10	35000	20	6,8
	8028571	G 1/2	G 1/2	G 3/4	15	2	10	2	10	5000	10	1,3
	8028671	G 3/4	G 3/4	G 1	20	2	10	2	10	8000	10	1,5
	8028771	G 1	G 1	G 1	25	2	10	2	10	12000	10	1,5
	8028871	G 1	G 1 1/4	G 1 1/4	32	2	10	2	10	18000	12	3,0
	8028971	G 1 1/2	G 1 1/2	G 1 1/2	40	2	10	2	10	25000	15	3,8
	8029071	G 2	G 2	G 2	50	2	10	2	10	35000	20	6,8

Valves for Vacuum

Symbol	Type*	Port			Nominal size	Operating pressure (bar)		Control pressure (bar)		Flow (l/min)	Switching time (ms)	Weight (kg)
		1	2	3		min.	max.	min.	max.			
	8026572	G 1/2	G 1/2	G 3/4	15	0,01 mbar	6 bar	4	10	5000	20	1,3
	8026672	G 3/4	G 3/4	G 1	20	0,01 mbar	6 bar	4	10	8000	20	1,5
	8026772	G 1	G 1	G 1	25	0,01 mbar	6 bar	4	10	12000	20	1,5
	8026872	G 1	G 1 1/4	G 1 1/4	32	0,01 mbar	6 bar	4	10	18000	25	3,0
	8026972	G 1 1/2	G 1 1/2	G 1 1/2	40	0,01 mbar	6 bar	4	10	25000	30	3,8
	8027072	G 2	G 2	G 2	50	0,01 mbar	6 bar	4	10	35000	35	6,8

* When ordering please indicate solenoid, voltage and current type (frequency).

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 Data'.

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 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.

Parameters of solenoids

	Type	Current consumption		Nominal current		Ex-protection (mA)	Protection class Category	Temperature Ambient/ Fluid °C	Elektr. port Größe	Weight (kg)	Dimen-sion No.	Circuit diagram No.
		24 V DC (W)	230 V AC (VA)	24 V DC (mA)	230 V AC							
	0800 *7)	16,9	-	703	-	-	IP 65 (with connectors)*6)	-25 to +60 Fluid: max. 80	Connector acc. to DIN EN 175301-803 Form A *5)	0,260	7	1
	3826	13,6	-	567	-	-	Div 1 and 2 KI.I, Gr.A-D KI.II, Gr. E-G KI.III T3C (160°C) NEMA 4,4X, 6,6P, 7,9 *4)	-20 to +60	Flying leads 450 mm	0,500	12	1
	3827	-	15,7	-	68	-	Div 1 und 2 KI.I, Gr.A-D KI.II, Gr. E-G KI.III T3C (160°C) NEMA 4,4X, 6,6P, 7,9 *4)	-20 to +60	Flying leads 450 mm	0,500	12	5
	4280 *8)	11,4	-	475	-	II2G II2D	EEx me II T5/T4 IP66 T 130°C *2)	T5: -40 to +40 T4: -40 to +50	M20 x 1,5 *6)	0,500	10	4
	4281 *8)	-	15,2	-	66	II2G II2D	EEx me II T5/T4 IP66 T 130°C *2)	T5: -40 to +40 T4: -40 to +50	M20 x 1,5 *6)	0,500	10	7

Standardvoltages 24 V DC, 230 V AC, other voltages on request design acc. to VDE 0580, EN50014/50028 100% duty cycle

*1) EC-Type-Examination-Certificate KEMA 02 ATEX 1347X

*2) EC-Type-Examination-Certificate KEMA 98 ATEX 4452 X

*3) EC-Type-Examination-Certificate PTB 02 ATEX 2085 X

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

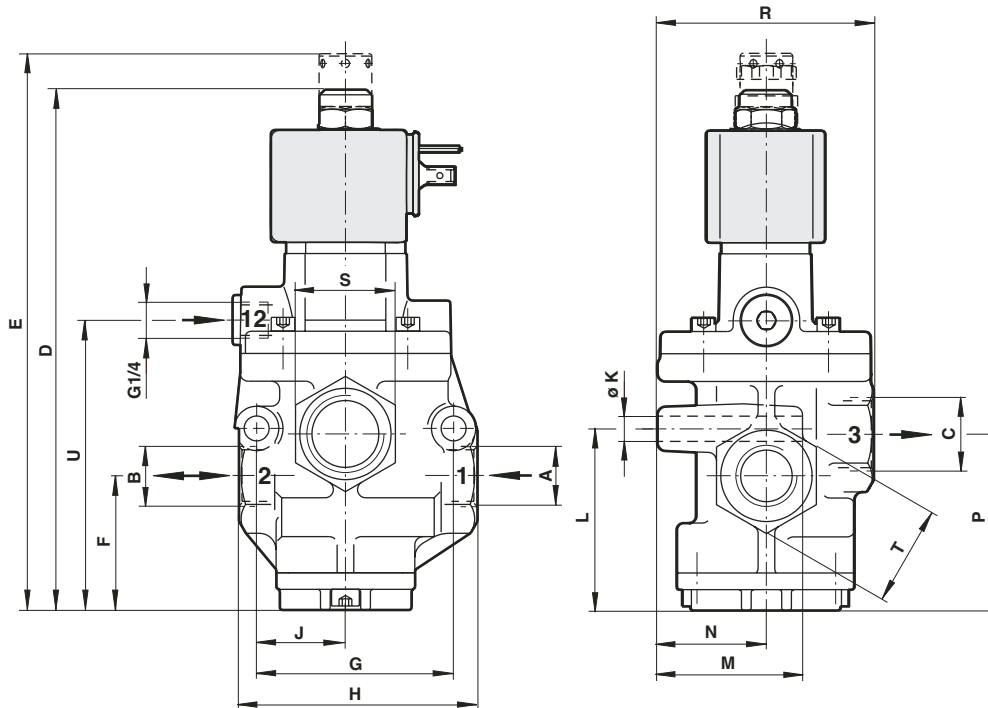
*5) Required connector: type 0570275

*6) Connector/Cable gland is not indicated in delivery

*7) IP65 according to DIN 40050/IEC 529 and DIN EN 600068-2-38

*8) This solenoid has a fuse with an appropriate rating

Basic dimensions valves



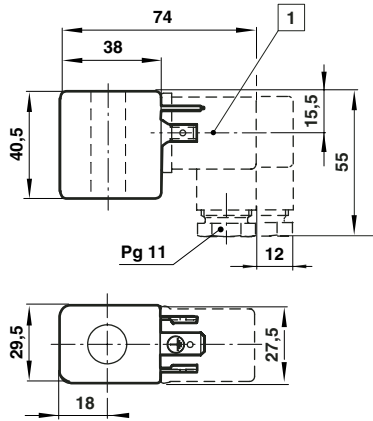
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Solenoid rotate 4 x 90°

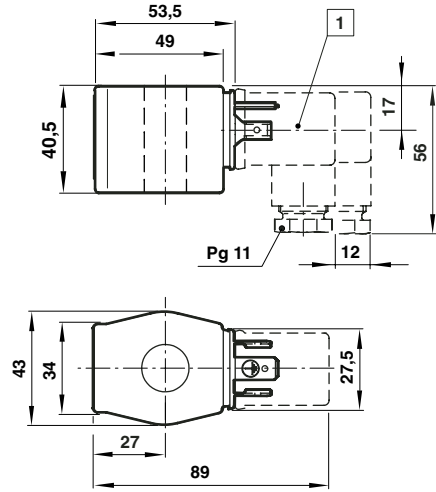
Type	A	B	C	D	E	F	G	H	J	ØK	L	M	P	R	S	T	U
802657.	G 1/2	G 1/2	G 3/4	187,5	-	48	71	86	32	9	65,5	52	63,5	78	36	36	104,5
802667.	G 3/4	G 3/4	G 1	197,5	-	51,5	82,5	112	39	9	74,5	54	73	92	46	46	114,5
802677.	G 1	G 1	G 1	197,5	-	51,5	82,5	112	39	9	74,5	54	73	92	46	46	114,5
802687.	G 1	G 1 1/4	G 1 1/4	239	-	70	104	142	48	11	108	64	98	108	60	60	148
802697.	G 1 1/2	G 1 1/2	G 1 1/2	265	-	85	118	164	50,5	14	121,5	70	115,5	123	60	68	168
802707.	G 2	G 2	G 2	304	-	98	148	200	66	18	144	85	137	153	90	90	204
802857.	G 1/2	G 1/2	G 3/4	-	200,5	48	71	86	32	9	65,5	52	63,5	78	36	36	104,5
802867.	G 3/4	G 3/4	G 1	-	210,5	51,5	82,5	112	39	9	74,5	54	73	92	46	46	114,5
802877.	G 1	G 1	G 1	-	210,5	51,5	82,5	112	39	9	74,5	54	73	92	46	46	114,5
802887.	G 1	G 1 1/4	G 1 1/4	-	252	70	104	142	48	11	108	64	98	108	60	60	148
802897.	G 1 1/2	G 1 1/2	G 1 1/2	-	279	85	118	164	50,5	14	121,5	70	115,5	123	60	68	168
802907.	G 2	G 2	G 2	-	317	98	148	200	66	18	144	85	137	153	90	90	204

Basic dimensions solenoids

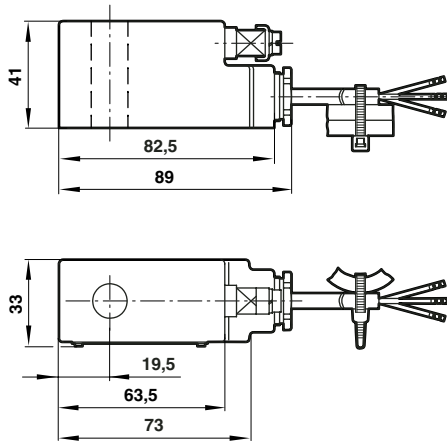
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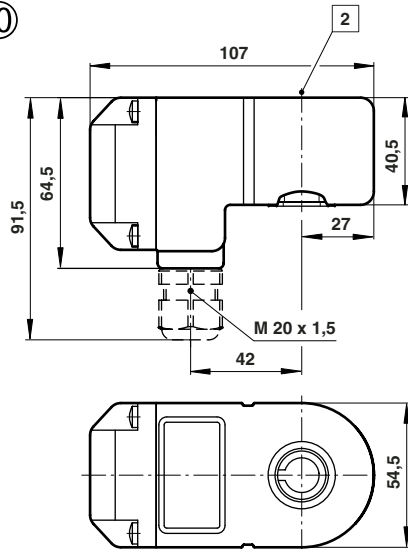
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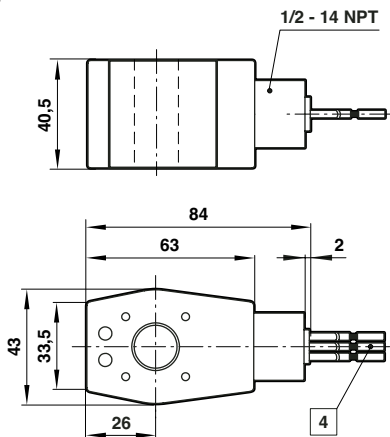
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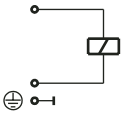
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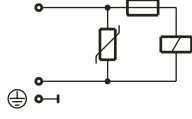
- 1 Solenoid rotate 4 x 90°
- 2 Ø 13 (with adaptor sleeve)
- 3 M20 x 1,5 or 1/2 - 14 NPT
- 4 Lace AWG 18 (450 mm long)

Circuit diagram

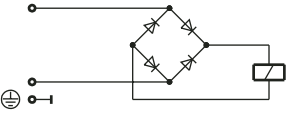
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