Direct-operated poppet valve
Normally-Open or Normally Closed
Port size 1/4" NPT (optional G1/4)
Brass Body
Operating pressures up to 203 psi (see technical data)

Technical specifications

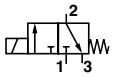
Medium:
Neutral gases and liquid fluids
(For contaminated fluids, an upstream dirt trap is recommended)
Mounting Position:
Arbitrary, preferably upright
Ambient / Fluid Temperature*:
-13°F to 176°F (-25°C to 80°C)
Depending on solenoid coil

* Air supply must be dry enough to avoid ice formation.

Material:
Housing: Brass
Seal: NBR (optional materials available)
Internal parts: Stainless Steel 14014 (AISI 430F) and Brass

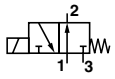
Features :
No differential pressure required, works from 0 psi up
Integral rectifier on AC solenoids
Fast switching times
Optional North American and ATEX hazardous location coils
Optional seal materials FKM, EPDM, PTFE

Technical data
Switching function: Normally closed

Symbol	Port size	Orifice (mm)	Operating pressure (psi) min.	max.	Flow (Cv)	Weight without solenoid (lb)	Dimension No.	Solenoid group	Model *1)
	1/4 NPT	2	0	145	0.12	0.71	1	13B	9603210*
	1/4 NPT	3	0	87	0.20	0.71	1	13C	9603320*
	1/4 NPT	3	0	203	0.20	1.15	1	13D	9603340*
	1/4 NPT	4	0	116	0.35	1.15	2	16C	9604430*

*1) Order example: To order a series 96000 valve, 2mm orifice, with a 24 Vdc, IP65, DIN Form A coil, Model Number: 9603210024602400.
Valve model code: 9603210 + Coil code: 024602400 = Model Number: 9603210024602400.
To order the valve only, replace the * after the Valve model code from the table with 9 zero's, i.e. 9603210000000000.

Switching function: Normally open

Symbol	Port size	Orifice (mm)	Operating pressure (psi) min.	max.	Flow (Cv)	Weight without solenoid (lb)	Dimension No.	Solenoid group *2)	Model *1)
	1/4 NPT	2	0	131	0.10	1.10	3	13B	9605210*
	1/4 NPT	3	0	131	0.16	1.54	3	13D	9605340*
	1/4 NPT	4	0	87	0.30	1.54	3	16D	9605440*

*1) Order example: To order a series 96000 valve, 2mm orifice, with a 24 Vdc, IP65, DIN Form A coil, Model Number: 9605210024602400.
Valve model code: 9605210 + Coil code: 024602400 = Model Number: 9605210024602400.
To order the valve only, replace the * after the Valve model code from the table with 9 zero's, i.e. 9605210000000000.

Solenoids group 13B, standard voltages

	Power consumption 24 VDC W	120 VAC VA	Protection class	Temperature Ambient/fluid	Electrical connector size	Weight (lb)	Dimensions no.	Circuit diagram no.	Order separate	Coil code
	8.0	—	IP 65 (with connector)	-13°F to 140°F Fluid: max. 176°F	DIN Form A	0.33	1	1	0000000024602400	024602400
	—	9.2	IP 65 (with connector)	-13°F to 140°F Fluid: max. 176°F	DIN Form A	0.35	2	6	0000000320612060	320612060
	5.5	—	XP/DIP, Div. 1 & 2 Cl. I, Gr. A-D Cl. II/III, Gr. E-G T3 (160°C) NEMA 4, 4X, 6, 6P, 7, 9	-4°F to 140°F	Flying leads 18"	1.10	8	1	0000000372202400	372202400
	—	5.9	XP/DIP, Div. 1 & 2 Cl. I, Gr. A-D Cl. II/III, Gr. E-G T3 (160°C) NEMA 4, 4X, 6, 6P, 7, 9	-4°F to 140°F	Flying leads 18"	1.10	8	5	0000000372312060	372312060

Solenoids group 13C, standard voltages

	Power consumption 24 VDC W	120 VAC VA	Protection class	Temperature Ambient/fluid	Electrical connector size	Weight (lb)	Dimensions no.	Circuit diagram no.	Order separate	Coil code
	12.1	—	IP 65 (with connector)	-13°F to 140°F Fluid: max. 176°F	DIN Form A	0.26	1	1	0000000020002400	020002400
	—	11.3	IP 65 (with connector)	-13°F to 140°F Fluid: max. 176°F	DIN Form A	0.35	2	6	0000000320412060	320412060
	8.9	—	XP/DIP, Div. 1 & 2 Cl. I, Gr. A-D Cl. II/III, Gr. E-G T3 (160°C) NEMA 4, 4X, 6, 6P, 7, 9	-4°F to 140°F	Flying leads 18"	1.10	8	1	0000000372402400	372402400
	—	9.5	XP/DIP, Div. 1 & 2 Cl. I, Gr. A-D Cl. II/III, Gr. E-G T3 (160°C) NEMA 4, 4X, 6, 6P, 7, 9	-4°F to 140°F	Flying leads 18"	1.10	8	5	0000000372512060	372512060

Solenoids group 13D, standard voltages

	Power consumption 24 VDC W	120 VAC VA	Protection class	Temperature Ambient/fluid	Electrical connector size	Weight (lb)	Dimensions no.	Circuit diagram no.	Order separate	Coil code
	16.9	—	IP 65 (with connector)	-13°F to 140°F Fluid: max. 176°F	DIN Form A	0.60	3	1	0000000070002400	070002400
	—	19.5	IP 65 (with connector)	-13°F to 140°F Fluid: max. 176°F	DIN Form A	0.71	4	6	0000000370312060	370312060
	13.6	—	XP/DIP, Div. 1 & 2 Cl. I, Gr. A-D Cl. II/III, Gr. E-G T3 (160°C) NEMA 4, 4X, 6, 6P, 7, 9	-4°F to 140°F	Flying leads 18"	1.10	8	1	0000000372602400	372602400
	—	15.7	XP/DIP, Div. 1 & 2 Cl. I, Gr. A-D Cl. II/III, Gr. E-G T3 (160°C) NEMA 4, 4X, 6, 6P, 7, 9	-4°F to 140°F	Flying leads 18"	1.10	8	5	0000000372712060	372712060

Solenoids group 16C, standard voltages

	Power consumption 24 VDC W	120 VAC VA	Protection class	Temperature Ambient/fluid	Electrical connector size	Weight (lb)	Dimensions no.	Circuit diagram no.	Order separate	Coil code
	6.8	—	IP 65 (with connector)	-13°F to 140°F	DIN EN 175301-803, form A *6)	0.73	2	1	0000000082702400	082702400
	—	10.6	IP 65 (with connector)	-13°F to 140°F	DIN EN 175301-803, form A *6)	0.75	3	6	0000000380512060	380512060
	8.9	—	XP/DIP, Div. 1 & 2 Cl. I, Gr. A-D Cl. II/III, Gr. E-G T3 (160°C) NEMA 4, 4X, 6, 6P, 7, 9	-4°F to 40°F	Flying leads 18"	1.10	8	1	0000000382402400	382402400
	—	9.5	XP/DIP, Div. 1 & 2 Cl. I, Gr. A-D Cl. II/III, Gr. E-G T3 (160°C) NEMA 4, 4X, 6, 6P, 7, 9	-4°F to 40°F	Flying leads 18"	1.10	8	5	0000000382512060	382512060

Solenoids group 16D, standard voltages

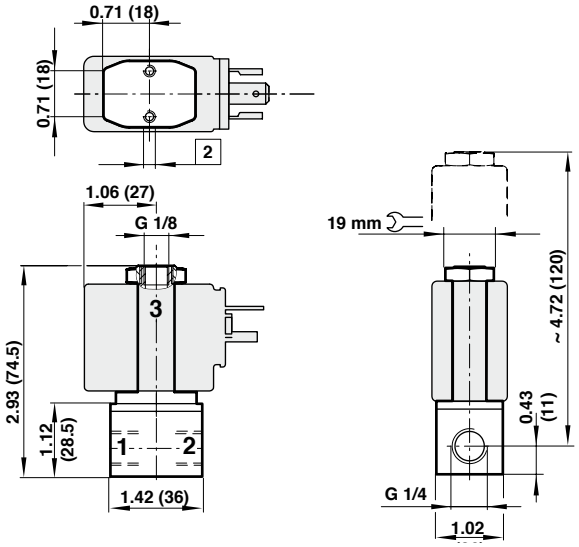
	Power consumption 24 VDC W	120 VAC VA	Protection class	Temperature Ambient/fluid	Electrical connector size	Weight (lb)	Dimensions no.	Circuit diagram no.	Order separate	Coil code
	6.8	—	IP 65 (with connector)	-13°F to 140°F Fluid: max. 176°F	DIN Form A	0.57	3	1	0000000080002400	080002400
	—	19.5	IP 65 (with connector)	-13°F to 140°F Fluid: max. 176°F	DIN Form A	0.77	4	6	0000000380312060	380312060
	8.9	—	XP/DIP, Div. 1 & 2 Cl. I, Gr. A-D Cl. II/III, Gr. E-G T3 (160°C) NEMA 4, 4X, 6, 6P, 7, 9	-4°F to 140°F	Flying leads 18"	1.10	8	1	0000000382602400	382602400
	—	15.7	XP/DIP, Div. 1 & 2 Cl. I, Gr. A-D Cl. II/III, Gr. E-G T3 (160°C) NEMA 4, 4X, 6, 6P, 7, 9	-4°F to 140°F	Flying leads 18"	1.10	8	5	0000000382712060	382712060

Accessories

Cable gland protection class EEx e, EEx d (ATEX), Nickel plated brass	Connectors
	
EEx e 0588819 (for solenoids 42xx / 46xx M20 x 1.5)	0570275000000000

Dimensions
Valves

1



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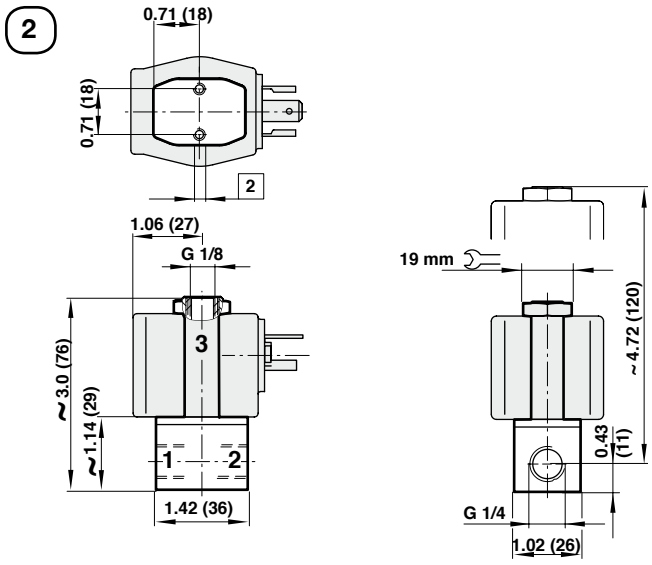

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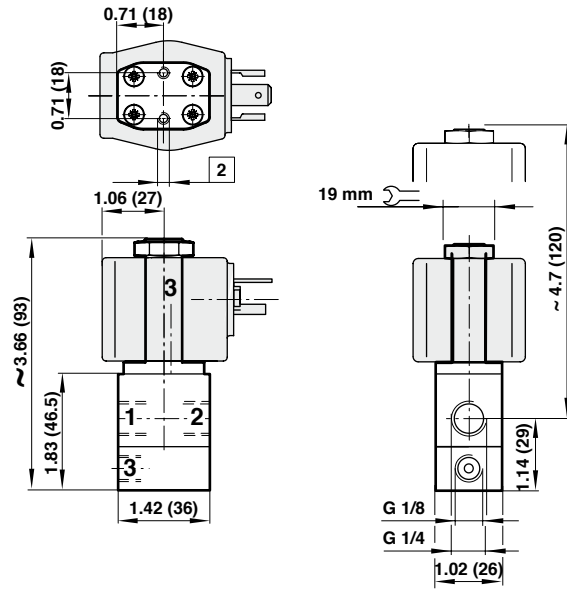
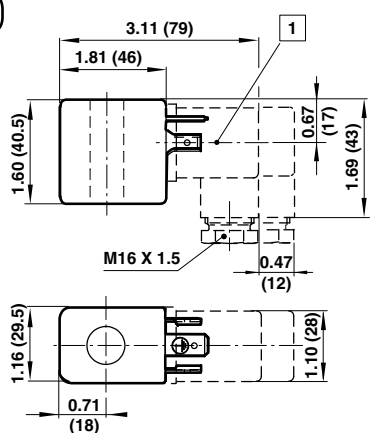


2 M4 x 6 mm deep

Dimensions in inches (mm)

Dimensions
Solenoid operators

2



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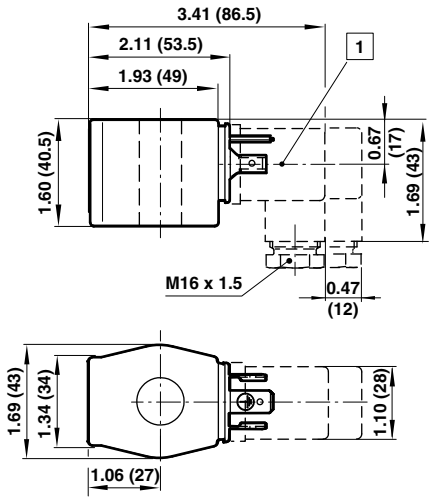
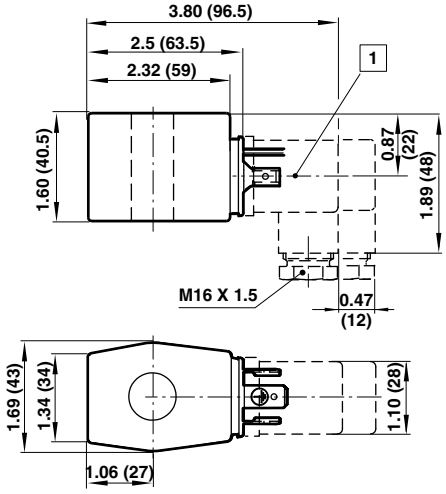


1 Connector can be indexed by 4x90°

Dimensions
Solenoid operators

4



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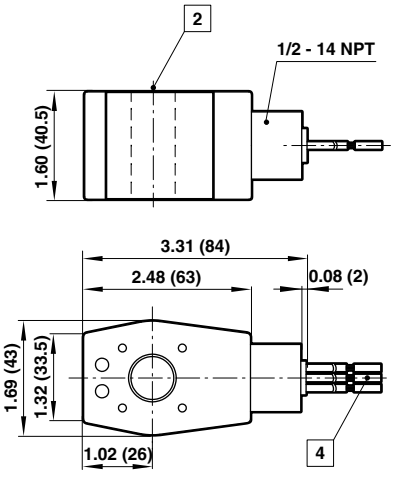
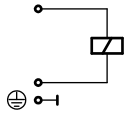


1 Connector can be indexed by 4x90°
2 Ø 16 or 13 (with spacer tube)
4 Flying leads AWG 18 (450 mm long)

Circuit diagrams

1



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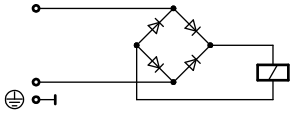

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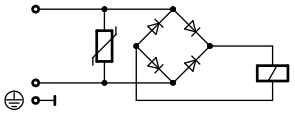

Dimensions in inches (mm)