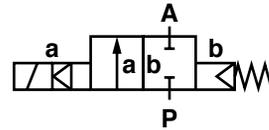


For neutral gases and liquids
Indirectly solenoid actuated
Diaphragm valves
Internal thread 1/4" NPT to 2" NPT



Technical specifications

Description

Solenoid valve for air, water, and other neutral fluids
Switching function: normally closed
Flow direction: determined

Differential pressure:

1.45 psi (0.1 bar) required
[4.35 psi (0.3 bar for EPDM)]

Fluid temperature:

14°F up to max.
194°F (-10°C up to max. 90°C)

Ambient temperature:

14°F up to max. 122°F
(-10°C up to max. 50°C)

Operating pressure:

1.45 to 232 psi (0.1 to 16 bar)
(see technical data)

Mounting position: as required,
preferably with solenoid vertical
on top

Material

Body: Brass
Seat seal: NBR
Internal parts: Stainless steel, PVDF

For contaminated fluids the use of a
strainer upstream of the valve is recom-
mended.

Features

High flow rate
Damped operation
Functional compact design
Solenoid interchangeable without
tools (Click-on®)
Particularly suitable as a water
valve according to DIN EN
60730-2-8

Technical data

Connection size NPT	Orifice inch	Cv-Value	Weight (lb)	Part number*	Operating pressure psi				
					NBR 00	Normally open 01	Manual override 02	FPM 230°F (110°C) 03	EPDM 230°F (110°C) 14
1/4	0.3	2.2	1.04	82410XX.9101.XXXXX	1.45 - 232	1.45 - 232	1.45 - 232	1.45 - 232	4.35 - 232
3/8	0.4	3.5	0.99	82411XX.9101.XXXXX	1.45 - 232	1.45 - 232	1.45 - 232	1.45 - 232	4.35 - 232
1/2	0.5	4.4	1.1	82412XX.9101.XXXXX	1.45 - 232	1.45 - 232	1.45 - 232	1.45 - 232	4.35 - 232
3/4	0.8	6.9	1.43	82413XX.9101.XXXXX	1.45 - 232	1.45 - 232	1.45 - 232	1.45 - 232	4.35 - 232
1	1.0	10.9	2.09	82414XX.9101.XXXXX	1.45 - 232	1.45 - 232	1.45 - 232	1.45 - 232	4.35 - 232
1 1/4	1.3	26.5	6.02	82415XX.9101.XXXXX	1.45 - 145	-	1.45 - 145	1.45 - 145	4.35 - 145
1 1/4	1.3	26.5	6.02	82415XX.9151.XXXXX	1.45 - 232	1.45 - 232	1.45 - 232	1.45 - 232	4.35 - 232
1 1/2	1.6	28.8	5.58	82416XX.9101.XXXXX	1.45 - 145	-	1.45 - 145	1.45 - 145	4.35 - 145
1 1/2	1.6	28.8	5.58	82416XX.9151.XXXXX	1.45 - 232	1.45 - 232	1.45 - 232	1.45 - 232	4.35 - 232
2	2.0	47.2	8.49	82417XX.9101.XXXXX	1.45 - 145	-	1.45 - 145	1.45 - 145	4.35 - 145
2	2.0	47.2	8.49	82417XX.9151.XXXXX	1.45 - 232	1.45 - 232	1.45 - 232	1.45 - 232	4.35 - 232

* For orders please state voltage and frequency, e.g.: 8241200.9101.23050 for 230V 50Hz or 8241200.9101.02400 for 24 VDC

Solenoid 9101 / 9151 (standard voltages)

DC	AC	
	50Hz	60Hz
24V	24V	-
-	110V	120V
-	230V	220V

Design according to DIN VDE 0580
Voltage range +/-10%, duty cycle 100%
Protection class according to EN 60529: IP65

Power consumption

Solenoid	DC	AC	
		Inrush	Holding
9101	8W	15 VA	12 VA
9151	18W	45 VA	35 VA

Electrical connector according to DIN EN 175301-803 (included)
The solenoids are UL listed and CSA approved

Mounting bracket

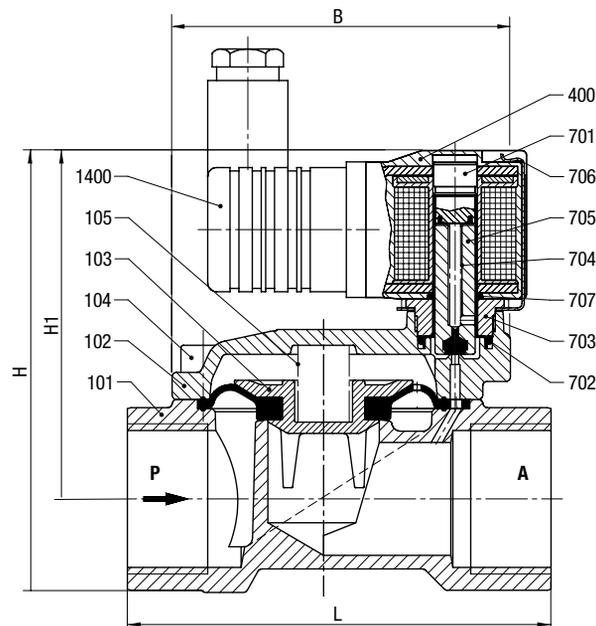
Connection size NPT	Part number
1/4, 3/8, 1/2	1258986.0000.00000
3/4	1258991.0000.00000
1	1258996.0000.00000
1 1/4, 1 1/2	1259005.0000.00000
2	1259007.0000.00000



Drawing legend

Index	Description
101	Valve body
102	Valve cover
*103	Diaphragm
104	Allen head screw
*105	Pressure spring
400	Solenoid
701	Core tube
*702	O-ring
703	Screw piece
*704	Pressure spring
*705	Plunger
706	Spring clip
*707	O-ring
1400	Electrical connector (enclosed)

* A service kit consists of these individual parts.



With solenoid 9101

Connection size NPT	L Inches	B Inches	H Inches	H1 Inches
1/4	2.36	1.73	3.09	2.64
3/8	2.36	1.73	3.09	2.64
1/2	2.64	1.73	3.19	2.64
3/4	3.15	1.97	3.46	2.81
1	3.74	2.44	3.84	3.03
1 1/4	5.20	3.62	4.90	3.76
1 1/2	5.20	3.62	4.90	3.76
2	6.30	4.29	5.61	4.25

With solenoid 9151

Connection size NPT	L Inches	B Inches	H Inches	H1 inches
1 1/4	5.20	3.62	5.59	4.45
1 1/2	5.20	3.62	5.59	4.45
2	6.30	4.29	6.30	4.94

Service kits

For valves with solenoid 9101	Part number
8241000.0000.00000	1256274.0000.00000
8241100.0000.00000	1256274.0000.00000
8241200.0000.00000	1256274.0000.00000
8241300.0000.00000	1256275.0000.00000
8241400.0000.00000	1256276.0000.00000
8241500.0000.00000	1259344.0000.00000
8241600.0000.00000	1259344.0000.00000
8241700.0000.00000	1259367.0000.00000
For valves with solenoid 9151	Part number
8241500.0000.00000	1259373.0000.00000
8241600.0000.00000	1259373.0000.00000
8241700.0000.00000	1259382.0000.00000

Further options on request:

- Explosion protected version
- Flange connections
- Sealed core tube
- Pulse model in DC only
- Low power consumption 2W (only 24 VDC)
- With NPT thread

Further options (solenoids)

- XXXXXX.9136 Solenoid in protection class
Ⓔ II 2 GD EEx m II T4 T 130 °C,
with 3 m connection cable