



Series PVA - Pad valve for air 2/2

General

Pad Valves offer a reliable and economic solution to fluid control. The valve is manufactured with a 2 way Bronze body and actuated pneumatically using either a single or double acting compact cylinder which can be rotated 360°.

Versions are available with NBR, FPM or PTFE valve seals.

The barrel profile allows the use of magnetic sensors code "1500._", "RS._", "HS._", for slots "A" type. (see the Pneumax General catalogue, chapter 3).

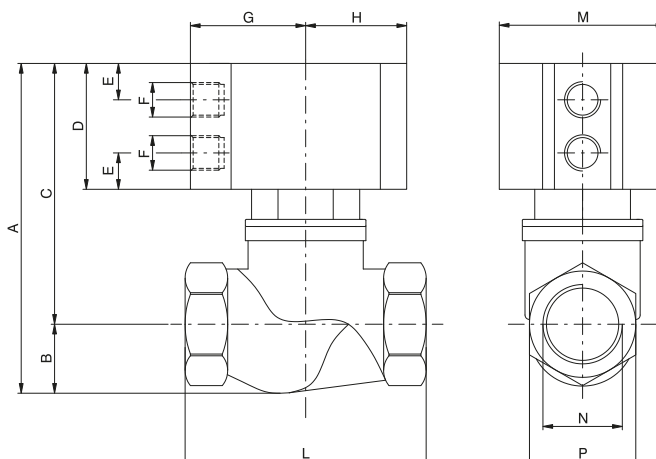
Construction characteristics

Bushing, Bushing pad, Nut pad	Brass
Cylinder	Aluminium alloy Anodized
Rear eye, Piston and Rod bushing	Anodized aluminium
Seals in contact with fluid	NBR, FPM, PTFE
Pneumatic cylinder seals	NBR, FPM, PTFE
Springs	Zinc plated steel
Piston rod	Chromed stainless steel

Technical characteristics

Pneumatic cylinder fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Valve fluid	Fluid compatible with gasket compounds available
Working pressure (Cylinder) (bar)	10
Temperature °C, non magnetic piston, NBR seals	-10 / + 70
Temperature °C, non magnetic piston, FPM seals	-10 / + 150
Temperature °C, non magnetic piston, PTFE seals	-10 / + 150
Temperature °C, magnetic piston,, NBR, FPM, PTFE seals	-10 / + 70

"T" body version Pad valves



Ordering code

PVA.B.A.P.T.C.S

ACTING

DE=Double acting
SC=Normally closed
SA=Normally OPEN

PISTON

N=Non magnetic

M= Magnetic

CONNECTIONS

A=G1/4"

B=G3/8"

C=G1/2"

D=G3/4"

E=G1"

F=G1 1/4"

G=G1 1/2"

H=G2"

SEALS

N=NBR

V=FPM

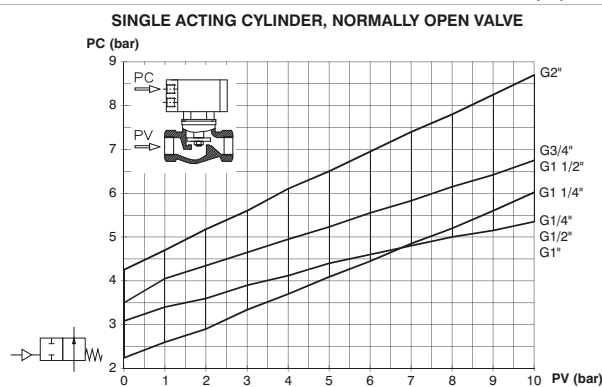
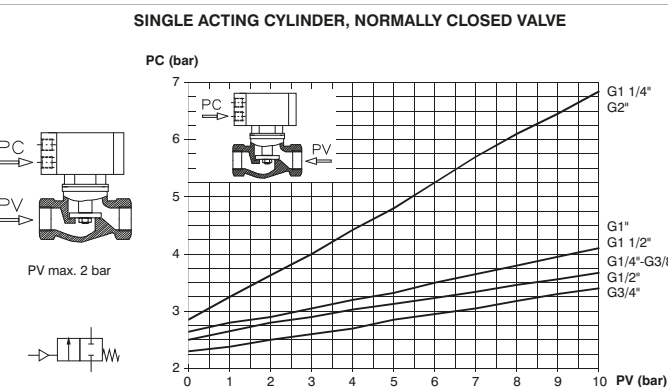
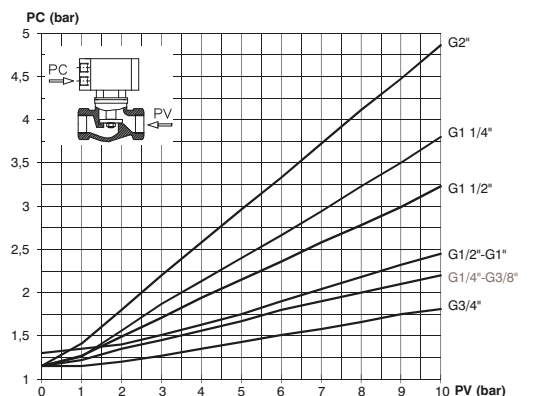
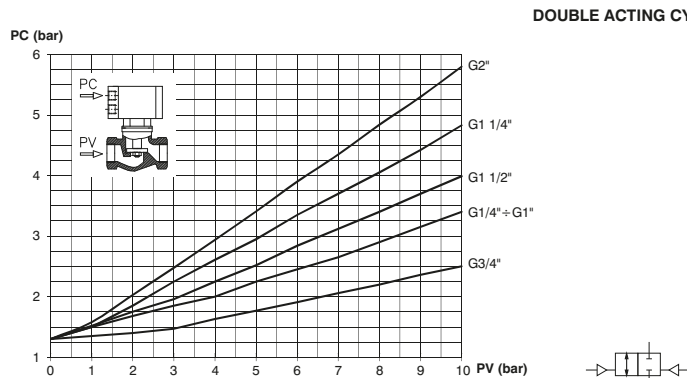
F=PTFE

TABLE OF DIMENSIONS

Connection (N)	Non magnetic version			Magnetic version													TECHNICAL DATA		
	A	C	D	A	C	D	B	E	F	G	H	L	M	P	Actuator (Ø)	Nominal Valve (Ø)	Weight (gr.)		
G1/4"	93,5	77,5	41	97,5	81,5	45	16	10,25	G1/8"	32,5	28,5	64	47	25	Ø40	Ø13,5	350		
G3/8"	93,5	77,5	41	97,5	81,5	45	16	10,25	G1/8"	32,5	28,5	64	47	25	Ø40	Ø13,5	350		
G1/2"	93,5	78	41	99,5	82	45	17,5	10,25	G1/8"	32,5	28,5	68	47	30	Ø40	Ø15	400		
G 3/4"	105	83	41	113	90	48	22	11,25	G1/8"	44	40	79	70	36	Ø63	Ø20,5	850		
G1"	117	89	41	125	101	53	28	11,25	G1/8"	44	40	94	70	44	Ø63	Ø25	1100		
G1 1/4"	131	103	48	136	108	53	28	11,25	G1/8"	44	40	110	70	55	Ø63	Ø30	1400		
G1 1/2"	154	118	57	166	130	69	36	13,75	G1/8"	56	49	120	90	60	Ø80	Ø38	2100		
G2"	169	124	57	181	136	69	45	13,75	G1/8"	56	49	140	90	73	Ø80	Ø49,5	3000		

Pad valves, 2-ways, are a reliable and economic solution to control fluid. Pneumatically actuated by a compact double or single acting cylinder with 360° revolving connections. Standard seals in contact with fluid are made in NBR, FPM or PTFE. The barrel profile allows the use of Pneumax magnetic sensors series 1500 (see the Sensors Section).

Pressure curves



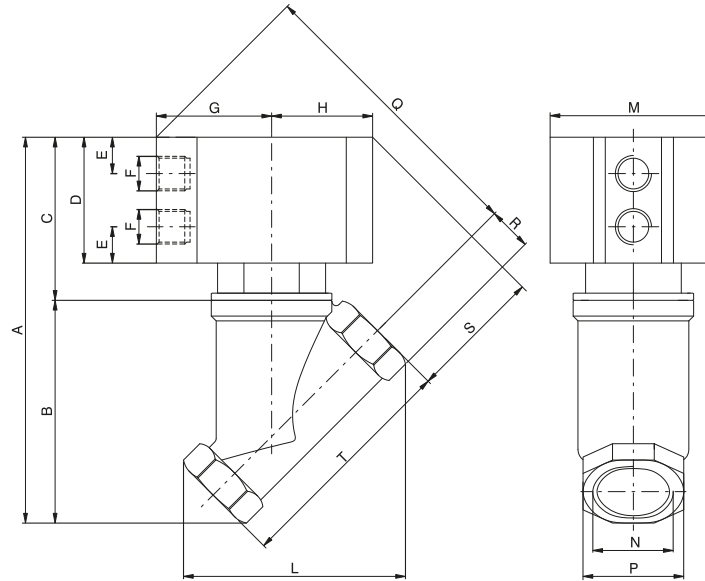
Operational characteristics

- Rear eye, Piston and Rod bushing = Anodized aluminium
- Cylinder = Aluminium alloy Anodized
- Spring = Zinc plated steel
- Seals = NBR, FPM, PTFE
- Piston rod = Chromed stainless steel
- Bushing, Bushing pad, Nut pad = Brass

Technical characteristics

Fluid	Filtered air.
Maximum working pressure (bar)	No lubrication needed, if applied it shall be continuous.
Temperature °C (non magnetic piston, NBR seals)	10
Temperature °C (non magnetic piston, FPM seals)	-10 / +70
Temperature °C (non magnetic piston, PTFE seals)	-10 / +150
Temperature °C (magnetic piston, NBR, FPM, PTFE seals)	-10 / +150
	-10 / +70

► "Y" body version Pad valves



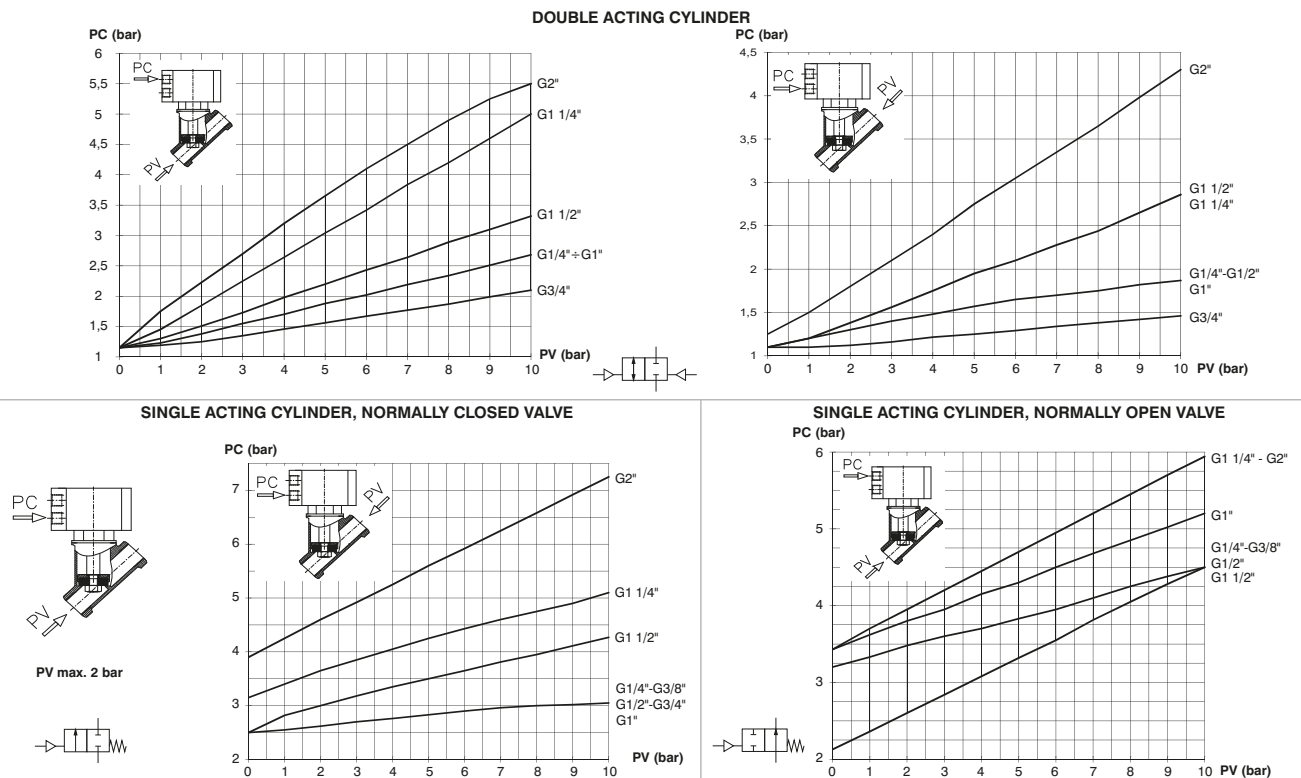
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Pressure curves

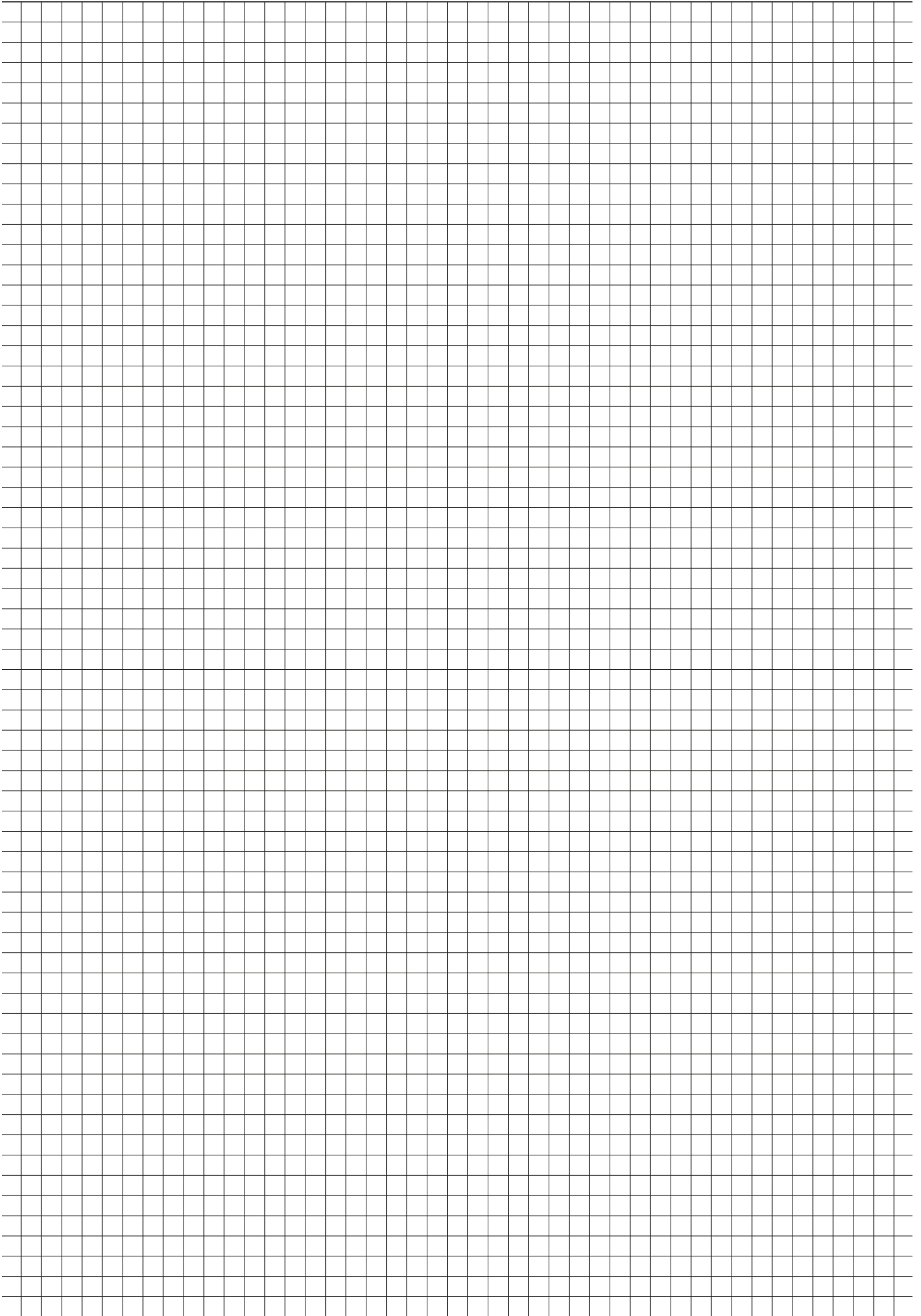


Operational characteristics

- Rear eye, Piston and Rod bushing = Anodized aluminium
- Cylinder = Aluminium alloy Anodized
- Spring = Zinc plated steel
- Seals = NBR, FPM, PTFE
- Piston rod = Chromed stainless steel
- Bushing, Bushing pad, Nut pad = Brass

Technical characteristics

Fluid	Filtered air.
Maximum working pressure (bar) 10	No lubrication needed, if applied it shall be continuous.
Temperature °C (non magnetic piston, NBR seals) -5 / + 70	10
Temperature °C (non magnetic piston, FPM seals) -5 / + 150	-10 / + 70
Temperature °C (non magnetic piston, PTFE seals) -5 / + 150	-10 / + 150
Temperature °C (magnetic piston, NBR, FPM, PTFE seals)	-10 / + 150
	-10 / + 70



F300 Series, Solenoid valves for fluids

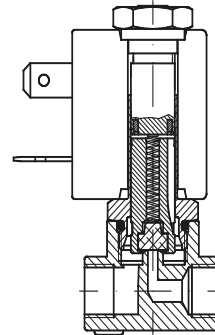
General details

PNEUMAX offer a vast range of solenoid valves in brass and stainless steel designed to control air, water, steam and all fluids that are compatible with the materials (body and seals) used in the range. The solenoid valves are 2 or 3-way, normally closed, normally open, general service, direct acting or servo-actuated, with connections available in NPT & BSP threads from G1/8" up to G2", with a working pressure range from vacuum to 100 bar. Solenoid valves are available with coils that conform to CESA 03 ATEX 344 certification for explosive environments. Our technical office ensures the highest standard of skill and understanding for the widest variety of applications, ensuring that the best possible solutions are found.

Versions manufactured

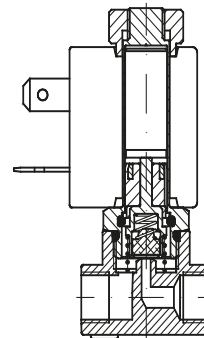
Direct action 2-way: 2-way solenoid valves have an input connection and an output connection machined in the valve body, the orifice being intercepted by the plunger mounted in the core tube.

They can be **normally closed (2/2 NC)**, in this case the fluid is intercepted by the plunger at rest, with electricity applied, the input orifice is opened and the media reaches the intended use.



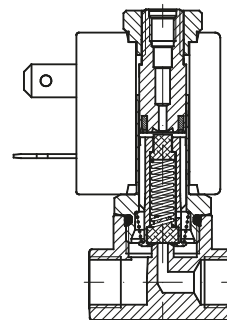
They can be **normally open (2/2 NO)**, in this case at rest the orifice remains open without electricity applied, the media reaches the intended use. When electricity is applied the input orifice closes.

Performance in both cases depends solely on the magnetic field produced by the solenoid coil.
The solenoid valves can also work at zero pressure.



Direct action 3-way: 3-way solenoid valves have an input and an output connection in the valve body and an exhaust connection fitted in the fixed core. The input and exhaust orifices are intercepted directly by the plunger fitted within the core tube.

They can be **normally closed (3/2 NC)** and in this case, at rest, the incoming fluid is intercepted by the plunger and output port in connected to the exhaust port.
Applying electrical power, the input orifice is opened and feed is supplied to the output. Exhaust is closed.



They can be **normally open (3/2 NA)** and in this case, at rest, the input orifice is open without electricity applied, the media reaches the intended use. Exhaust is closed.
Applying power, the input orifice closes and the output discharges through the exhaust port.

Performance in both cases depends solely on the magnetic field produced by the solenoid coil.
The solenoid valves can also work at zero pressure.

