

# Pad valves Series PVA

Pad valves are one of the more functional and efficient solutions for intercepting fluids.



The valves are composed of a bronze body, 2 ways, with pneumatic control, with a compact single or double acting cylinder with connections which can be turned 360°. Versions are available that have the gaskets in contact with the fluid, and are made of NBR, FPM or PTFE.

The liner profile allows use of magnetic sensors with codes "1500.\_", "RS.\_", "HS.\_", for type "A" slot.

## Construction characteristics

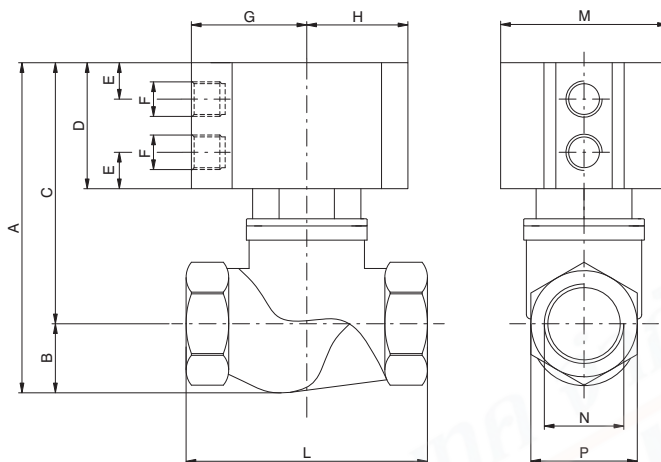
Rear eye, piston and rod bushing	Anodised aluminium
Cylinder	Aluminium alloy anodised
Spring	Zinc plated steel
Pneumatic cylinder seals	NBR (FPM for variants with seals in contact with fluid in FPM or PTFE)
Seals in contact with fluid	NBR, FPM, PTFE
Piston rod	Chromed stainless steel
Bushing, bushing pad, nut pad	Brass

## Operational characteristics

Pneumatic cylinder fluid	Filtered and lubricated air or non
Valve fluid	Fluid compatible with seals compounds available
Actuator - Maximum working pressure	10
Pad Valve - Maximum working pressure	101,3
Temperature °C, Non magnetic piston, NBR seals	-5 / + 70
Non magnetic piston, FPM seals	-5 / + 150
Non magnetic piston, PTFE seals	-5 / + 150
Magnetic piston, NBR, FPM, PTFE seals	-5 / + 70

## Series PVA

### ► “T” body version pad valve



Ordering code	
<b>PVA.B.A.P.T.C.M</b>	
	ACTING
<b>A</b>	DE=Double acting SC=Normally Closed SA=Normally Open
	PISTON
<b>P</b>	N=Non magnetic M= Magnetic
	CONNECTIONS
<b>C</b>	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
<b>M</b>	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 (N)	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 are made in NBR, FPM or PTFE. The barrel profile allows the use of Pneumax magnetic sensors series 1500.

Construction characteristics		
<ul style="list-style-type: none"> <li>- Rear eye, piston and rod bushing = anodised aluminium</li> <li>- Cylinder = aluminium alloy anodised</li> <li>- Spring = zinc plated steel</li> <li>- Seals = NBR, FPM, PTFE</li> <li>- Piston rod = chromed stainless steel</li> <li>- Bushing, bushing pad, nut pad = Brass</li> </ul>	Fluid	Filtered and lubricated air or non
	Maximum working pressure (-kPa)	101
	Minimum working pressure single action (cylinder)	5 bar
	Minimum working pressure double action (cylinder)	5 bar
	Temperature °C (Non magnetic piston, NBR seals)	-5 / + 70
	Temperature °C (Non magnetic piston, FPM seals)	-5 / + 150
	Temperature °C (Non magnetic piston, PTFE seals)	-5 / + 150
Temperature °C (Magnetic piston, NBR, FPM, PTFE seals)	-5 / + 70	

# Pad valves Series PVV

The PVV series vacuum valves are one of the most functional and efficient solutions for vacuum control, specifically designed for applications where large suction capacities is required. Thanks to the vacuum breaker function they are particularly suitable for handling applications.



The valves are made for the 3 ways body in aluminum or bronze and at the top a double-acting compact cylinder for actuation.

## Construction characteristics

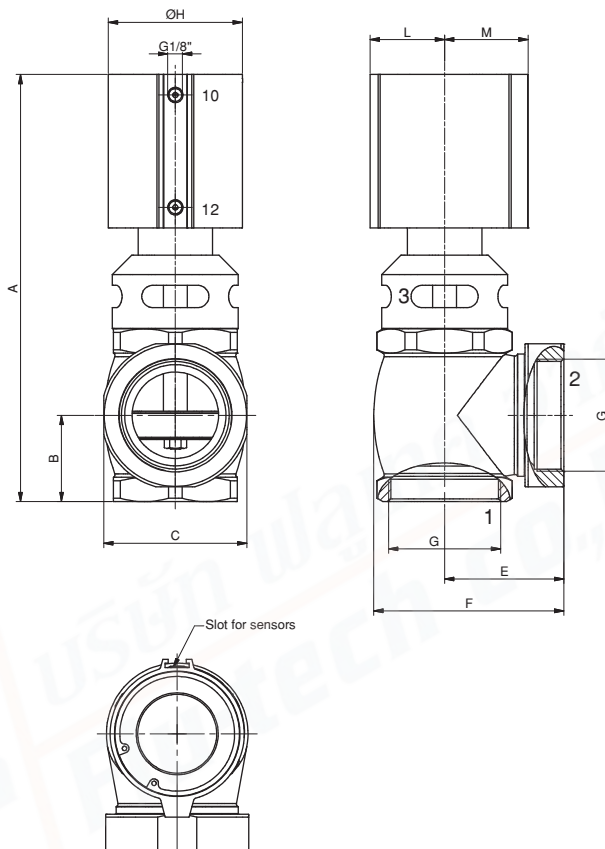
Valve body	G2" - Anodised aluminium
Seals	NBR
Valve drain filter	Steel/Paper
Cylinder support	Anodised aluminium alloy
Cylinder	Anodised aluminium alloy
Cylinder seals	NBR
Cylinder piston rod material	C43 chromed

## Operational characteristics

Valve fluid	Vacuum	
Orifice size	ø DN see the table	
Temperature	-5 ... +70°C	
Working pressure (-kPa)	101,3	
Cylinder fluid	Compressed air filtered and non lubricated, if lubricated must be continuous	
Cylinder bore	G2" = ø 63 mm	
	G2-1/2" - G3" - G4" = ø 80 mm	
Working pressure (bar)	2 ... 6	
The liner profile of the cylinder allows use of magnetic sensors:	1500	
	RS	
	HS	
	1580	With adapter 1580.01F
	MRS	With adapter 1580.01F
	MHS	With adapter 1580.01F

## Series PVV

### Vacuum pad valve "L" body



Ordering code	
<b>PVV.M.DE.P.L.C.N.S</b>	
<b>M</b>	BODY MATERIAL
	A = Aluminium
	B = Bronze
<b>P</b>	PISTON
	N = Non magnetic
	M = Magnetic
<b>C</b>	CONNECTION
	H = G 2"
	L = G 2"½
	M = G 3"
	N = G 4"
<b>S</b>	EXHAUST
	F = Silenced
	L = Free

Table of dimensions

Size	A	B	C	DN	E	F	G	H	L	M
G2"	175	52,5	93	42	72	119	G2"	70	40	44
G2"½	290	58	96	50	80	128	G2"½	90	50	56
G3"	335	68	96	50	87	142	G3"	90	50	56
G4"	365	83	135	66	102	170	G4"	90	50	56

2-way valves to control fluids, pneumatic control with a compact double or single acting cylinder with connections that can turn 360°, seals in contact with fluid are made of NBR, FPM or PTFE. The liner profile allows use of PNEUMAX series 1500 magnetic sensors.

Construction characteristics	Operational characteristics
<ul style="list-style-type: none"> <li>- Body valve: G 2" - Anodised aluminium G 2"½ - G 3" - G 4" - Bronze</li> <li>- Spool support: Anodised aluminium</li> <li>- Shutter washers: Anodised aluminium</li> <li>- Seals: NBR</li> <li>- Filter: Steel/Paper</li> <li>- Cylinder support: Anodised aluminium</li> <li>- Body cylinder: Anodised aluminium</li> <li>- Rear end cap: Anodised aluminium</li> <li>- Piston: Anodised aluminium</li> <li>- Rod cylinder: C43 chromed</li> <li>- Cylinder connections: Orientable</li> <li>- Screws: Zinc plated steel</li> </ul>	<p>Valve fluid: Vacuum                      Outlet diameter: Ø DN (see the table)                      Exhaust diameter: Ø DS (see the table)                      Temperature: -5 ... +70°C                      Fluid cylinder: Air filtered (if lubricated must be continuous)                      Bore cylinder: G 2" - Ø63                      G 2"½ - G 3" - G 4" - Ø80                      Pressure cylinder: 2 ... 6 bar                      Available sensors: "1500..." - "1580*..." - "MRS*..." - "MHS*..."                      (* with adapter code 1580.01F)</p>