

# AERFLUX PNEUMATIC VALVES CATALOGUE



## AERFLUX

**AERFLUX** pneumatic-actuated valves, available in **various sizes**, are designed for versatile applications, **offering precise control and durability**. With robust construction and advanced sealing technology, they ensure reliable performance even in demanding environments, **minimizing maintenance needs and maximizing operational efficiency**.

## CE MARKING

**AerFlux valves are not classified as "machines" or "partly completed machinery" under Directive 2006/42/EC, so CE marking is not required.** They come with an instruction manual and are made in accordance with ISO 4414 standards. **When used in machinery covered by the Directive, they fall under its scope** and cannot be operated until the full machine is compliant.

## SIZE

1/4"

3/8"

1/2"

3/4"

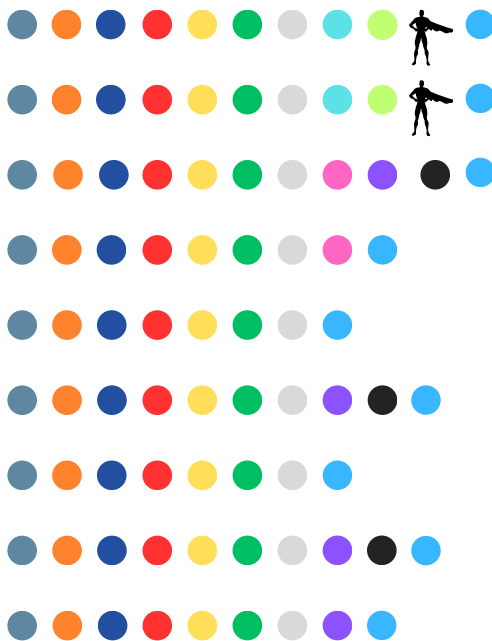
1"

1 1/4"

1 1/2"

2"

3"



- Vacuum breaker
- Normally open
- Normally close
- Double acting
- rod cleaner system
- FKM gaskets
- oxygen compatible
- with control rod
- Rod scraper
- L Shape body
- T Shape body
- NBR gaskets
- nickel plated body
- XPU all stainless steel

## CODES

AF	I	14 / 38 / 12 / 34	NA / NC / DE	N / V / T	FV	L	NK	S1 / S2 / S...
	II	1 / 14	NA / NC / DE	N / V / T	FV	L	NK	S1 / S2 / S...
	III	112 / 2	NA / NC / DE	N / V / T	FV	L	NK	S1 / S2 / S...
	IIII	3	NA / NC / DE	N / V / T	FV	L	NK	S1 / S2 / S...
AERFLUX	SIZE	PORT (14=1/4" - 12=1/2" - 112 =1 1/2" etc)	NA Normally Open NC Normally Close DE Double acting	N NBR V FKM T Teflon	Vacuum breaker	L shaped body	Nikel plated body	Special versions

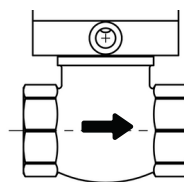
# AERFLUX T-SHAPED BODY



**Aerflux pneumatic valves** deliver reliable control of airflow in a range of industrial applications. **Made from high-quality materials**, they ensure fast response and long-lasting performance. Available in various configurations, including:

- **Double-acting**, using compressed air to both open and close the valve;
- **Single-acting normally-closed**, with a spring keeping the valve closed and compressed air opening it;
- **Single-acting normally-open**, where the spring keeps the valve open and compressed air closes it.

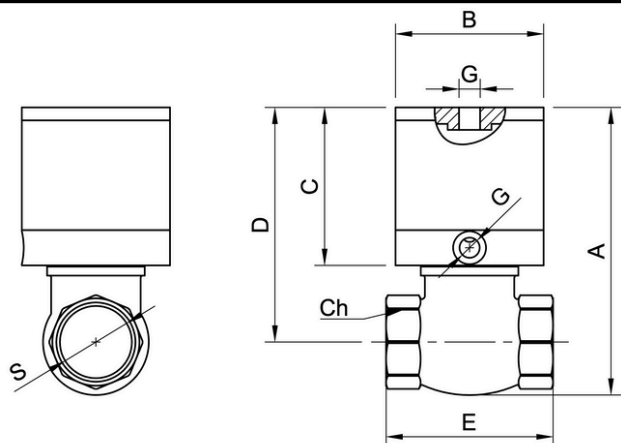
**Aerflux valves are efficiency and flexibility for your production needs.**



It is water hammer-free **if the fluid flows in the direction of the arrow on the body**. Sealing is guaranteed up to the pressures listed in the Differential Pressure table.

Type	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
Flow rate at 6 bar ΔP 1 bar NI/min	1400	1800	2400	3000	7000	9000	18000	20000
DN	8	10	15	20	25	32	40	50
PN Max operating pressure bar (valve)	16	16	16	16	16	16	16	16
Min actuation pressure bar	see tables							
Max actuation pressure bar	6	6	8	8	8	8	8	8
Working temperature NBR °C	-20 +80^							
Working temperature FKM °C	-10 +150^							
Working temperature PTFE °C	-20 +300^							
Fluids	air and other gases and liquids compatible with materials of which the valve is made							
Actuation fluid	air							
Weight Kg	0,2	0,3	0,4	0,55	0,85	1,1	1,9	2,4
Cycle life (laboratory tested)	DA 2.000.000 cycles - NO/NC about 1.600.000 cycles							

	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
<b>DOUBLE ACTING AERFLUX (ΔP is the difference between input and output pressure)</b>								
3 bar actuation pressure: ΔP max	14	13	12	10	12	8	8	6
4 bar actuation pressure: ΔP max	14	16	16	10	16	10	11	8
6 bar and over actuation pressure	16	16	16	16	16	16	16	16
<b>SINGLE ACTING NORMALLY CLOSE - Min pressure required to open the valve</b>								
ΔP max at which the valve remain closed	10	10	8	7	7	7	8	5
Min pressure required to open the valve	3	3	3	4	3	3	3	2.5
<b>SINGLE ACTING NORMALLY OPEN - Min pressure required to close the valve</b>								
ΔP max 4 bar - P min	3	3	3	4.5	4.5	4.5	5	5.5
ΔP max 8 bar - P min	3	3	4	5	5	5	5.5	5



Type	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
S	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
A	104	104	97,5	107	122	128	157	168
B	40	40	45	45	63	63	86	86
G	1/8"	1/8"	1/8"	1/8"	1/8"	1/8"	1/8"	1/8"
C	69	69	60	60	67.5	67.5	89	89
D	90	90	82	89	99.5	101,5	126	130
Ch	22	22	26	32	38	49	55	68

# AERFLUX L-SHAPED BODY

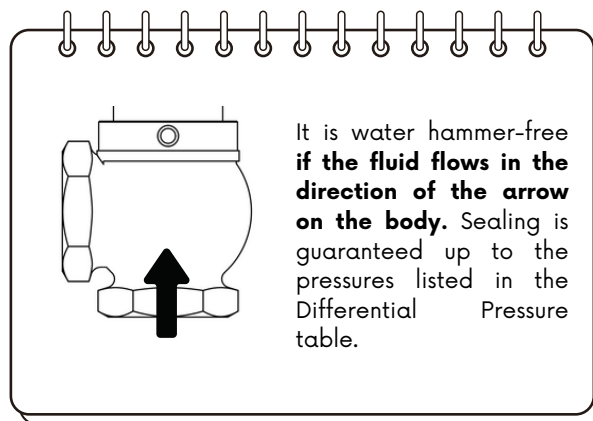


**L-Shaped Pneumatic Valve. Same quality of AerFlux Model T in a L-shaped body**

The L-shaped pneumatic valve provides efficient and precise airflow control in industrial applications. Its design allows for smooth fluid transitions, reducing pressure drops and enhancing overall system efficiency.

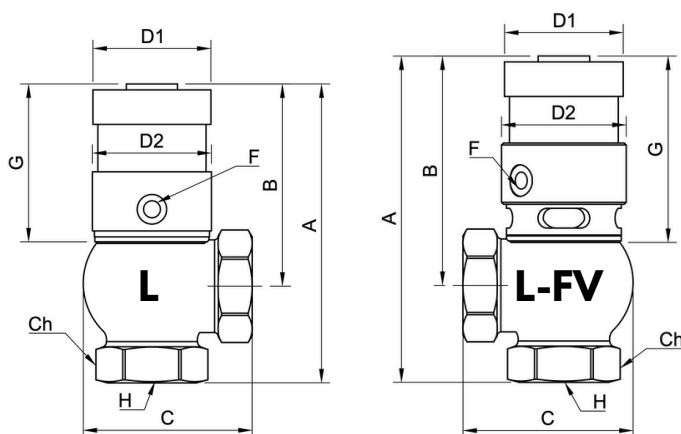
- L = body shape
- FV = Vacuum breaker model

A vacuum breaker valve is designed to prevent the formation of a vacuum in piping systems, which can cause collapse or damage to the system. It allows air to enter the system when the pressure drops below atmospheric levels, ensuring safe and efficient operation.



Type	1/2" L-FV	1"1/4 L-FV	2" L-FV	1"1/4 L	2" L	3" L
Flow rate at 6 bar $\Delta P$ 1 bar NI/min	1800	10100	22000	10100	22000	32000
DN	15	32	50	32	50	80
PN Max operating pressure bar (valve)	16	16	16	16	16	16
Min actuation pressure bar	see tables					
Max actuation pressure bar	7	7	7	7	7	7
Working temperature NBR °C	-20 +80 <sup>^</sup>					
Working temperature FKM °C	-10 +150 <sup>^</sup>					
Working temperature PTFE °C	-20 +300 <sup>^</sup>					
Fluids	air and other gases and liquids compatible with materials of which the valve is made					
Actuation fluid	air					
Weight Kg	0.45	1.3	2.5	1.2	2.3	5.6
Cycle life (laboratory tested)	DA 2.000.000 cycles - NO/NC about 1.600.000 cycles					

	1/2" L-FV	1"1/4 L-FV	2" L-FV	1"1/4 L	2" L	3" L
<b>DOUBLE ACTING AERFLUX (<math>\Delta P</math> is the difference between input and output pressure)</b>						
3 bar actuation pressure: $\Delta P$ max	12	8	6	8	6	3
4 bar actuation pressure: $\Delta P$ max	15	11	7	11	7	6
6 bar and over actuation pressure	16	16	16	16	15	12
<b>SINGLE ACTING NORMALLY CLOSE - Min pressure required to open the valve</b>						
$\Delta P$ max at which the valve remain closed	8	-	5	-	5	3
Min pressure required to open the valve	3	-	3	-	2.5	2
<b>SINGLE ACTING NORMALLY OPEN - Min pressure required to close the valve</b>						
$\Delta P$ max 4 bar - P min	4.5	-	5	-	5	6.5
$\Delta P$ max 8 bar - P min	5	-	6	-	6	6

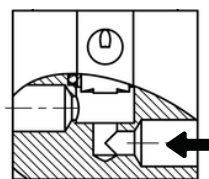


Type	1/2" L-FV	1"1/4 L-FV	2" L-FV	1"1/4 L	2" L	3" L
D1	45	60	63	63	80	86
D2	45	63	65	60	63	114
G	75	91	107	78	82	142
A	123	165	203	153	185	264
C	53	86	109	84	118	134
H	1/2"	1"1/4"	2"	1"1/4"	2"	3"
F	1/8"	1/8"	1/8"	1/8"	1/8"	1/8"
B	92	116	142	104	125	197
Ch	26	49	68	49	68	88

# AERFLUX XPU INOX



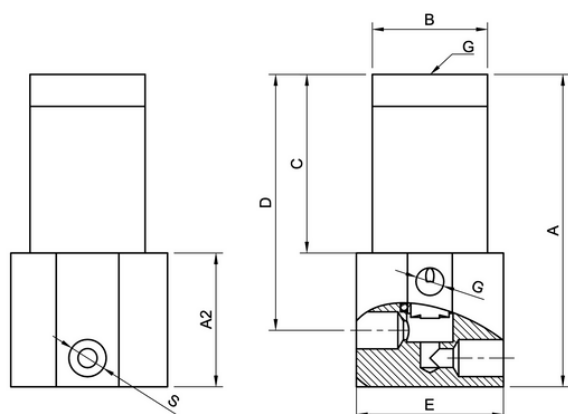
The AerFlux XPU (Xtreme Process Unit) valves are valves equipped with a flat gate and are operated by a pneumatic cylinder. The valve body is a one-piece block made of stainless steel that can accommodate three types of cylinders. **Double acting**, where compressed air opens and closes the valve. **Normally closed**, where the valve is held closed by a spring and opened by compressed air. **Normally open**, where the valve is held open by a spring and closed by compressed air. The valve is fitted with **FKM seals and the seat seal is made of PTFE.**



It is water hammer-free if the fluid flows in the direction of the arrow on the body. Sealing is guaranteed up to the pressures listed in the Differential Pressure table.

Type	1/4"	3/8"
Flow rate at 6 bar $\Delta P$ 1 bar NI/min	1400	1800
DN	8	10
PN Max operating pressure bar (valve)	25	25
Min actuation pressure bar	see tables	
Max actuation pressure bar	8	8
Working temperature FKM °C	-10 +150 <sup>^</sup>	
Working temperature PTFE °C	-20 +300 <sup>^</sup>	
Fluids	air and other gases and liquids compatible with stainless steel and PTFE and FKM	
Actuation fluid	air	
Weight Kg	1.7	1.7
Cycle life (laboratory tested)	DA 3.000.000 cycles - NO/NC about 2.100.000 cycles	

	1/4"	3/8"
<b>DOUBLE ACTING AERFLUX (<math>\Delta P</math> is the difference between input and output pressure)</b>		
3 bar actuation pressure: $\Delta P$ max	14	13
4 bar actuation pressure: $\Delta P$ max	14	16
6 bar and over actuation pressure	16	16
<b>SINGLE ACTING NORMALLY CLOSE - Min pressure required to open the valve</b>		
$\Delta P$ max at which the valve remain closed	10	10
Min pressure required to open the valve	2.5	2.5
<b>SINGLE ACTING NORMALLY OPEN - Min pressure required to close the valve</b>		
$\Delta P$ max 4 bar - P min	2.5	2.5
$\Delta P$ max 8 bar - P min	2.5	2.5



Type	1/4"	3/8"
S	1/4"	3/8"
A	83.5	83.5
B	36	36
G	1/8"	1/8"
C	42	42
D	80	80
A2	41.5	41.5