

# IN-LINE PROGRESSIVE STARTER VAP 1/4" AND 1/2"

**METAL  
WORK**<sup>®</sup>  
P N E U M A T I C

The in-line progressive starter is a valve that regulates the flow of air until the outlet pressure reaches a certain value, at which the valve opens and allows air to flow at full rate.

This valve can be used to control a group of valves or a single valve, or it can be mounted between another valve and an actuator.

The air that enters inlet 1 passes through a choke that has a knob adjustment to control the flow. The valve opens completely when the outlet pressure reaches about 60% of the inlet pressure.

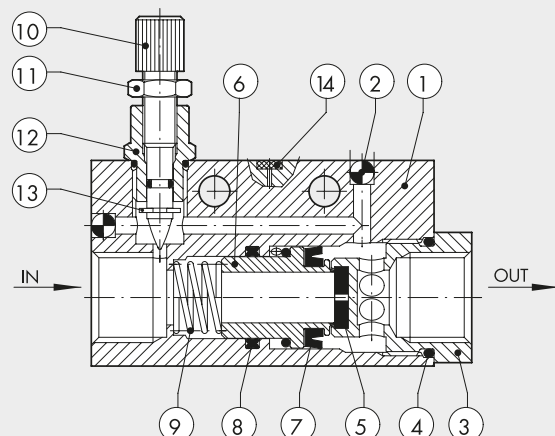
If the air supply is switched off, the valve discharges air from outlet 2 to inlet 1.



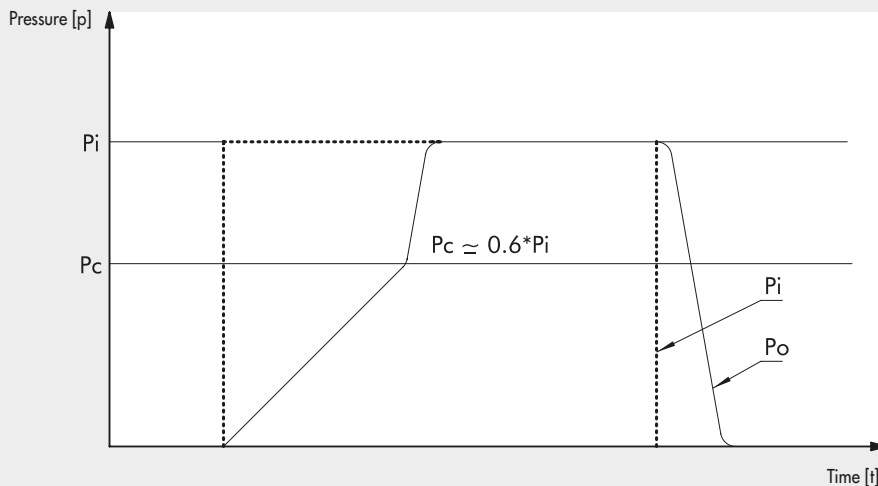
TECHNICAL DATA		VAP 1/4	VAP 1/2
Threaded ports		1/4"	1/2"
Type of valve		2/2 NC	
Minimum operating pressure	bar	2	
	psi	29	
	MPa	0.2	
Maximum operating pressure	bar	10	
	psi	145	
	MPa	1	
Switching pressure		About 60% of inlet pressure	
Operating frequency	Hz	max 5	
Flow rate at 6.3 bar, ΔP=0.5 bar:	NI/min	1050	2350
	scfm	37	83
Flow rate at 6.3 bar, ΔP=1 bar:	NI/min	1500	3100
	scfm	53	110
Maximum flow rate through flow regulator at 6.3 bar:	NI/min	200	300
	scfm	7	11
Operating temperature	°C	from -10 to 70	
	°F	from 14 to 158	
Fluid		Filtered, lubricated or unlubricated, compressed air. Lubrication, if used, must be continuous.	
Weight	g	90	220
Wall fixing screws		Min. M4x25	Min. M4x35
Mounting		In any position	

## COMPONENTS

- ① BODY: anodized aluminium
- ② BALL: steel
- ③ INSERT: nickel-plated brass
- ④ O-Ring: NBR
- ⑤ POPPET: NBR
- ⑥ PISTON: anodized aluminium
- ⑦ PISTON GASKET: NBR
- ⑧ O-Ring: NBR
- ⑨ SPRING : steel
- ⑩ PIN: nickel-plated brass
- ⑪ NUT: nickel-plated brass
- ⑫ PIN HOLDER: nickel-plated brass
- ⑬ SNAP RING: galvanized steel
- ⑭ SILENCER

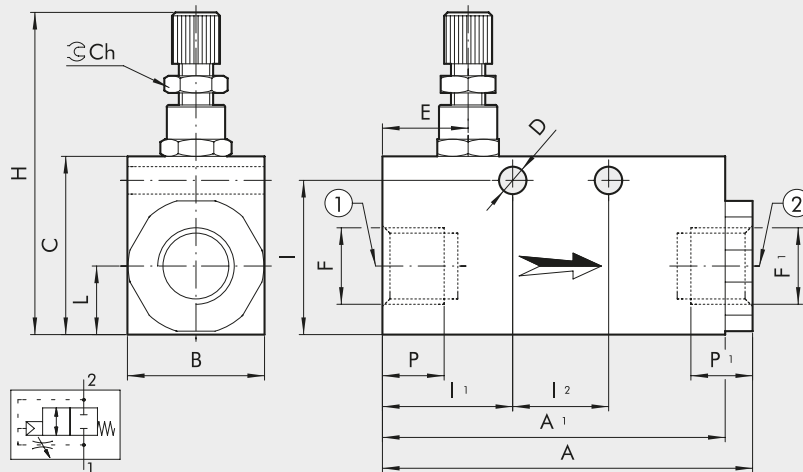


OPERATION



$P_i$  = inlet pressure  
 $P_o$  = outlet pressure  
 $P_c$  = switching pressure

DIMENSION



Code	Description	F	F'	A	A'	B	C	Ch	D	E	H	I	I'	I''	L	P	P'
W3606000002	VAP 1/4	G1/4	G1/4	56	50	20	30	8	4.5	10	49-52	25.5	18	16	10	9	9
W3606000004	VAP 1/2	G1/2	G1/2	75.8	65	30	40	8	4.5	13	59-62	35.5	26.5	16	15	12	12

NOTES