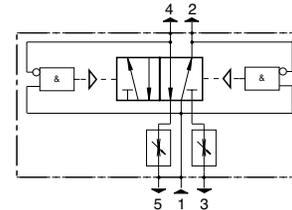


# 5/2-Way Valve 1/4

oscillating valve

Actuation: Pneumatic



The oscillating valve automatically generates reciprocating movements, for applications such as shaking, feeding, hammering, plunging, scraping, wiping, winding, tensioning, raking, diverting, spraying, cleaning, and dipping.

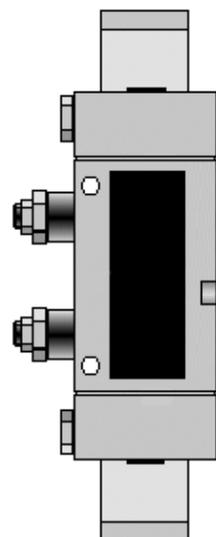
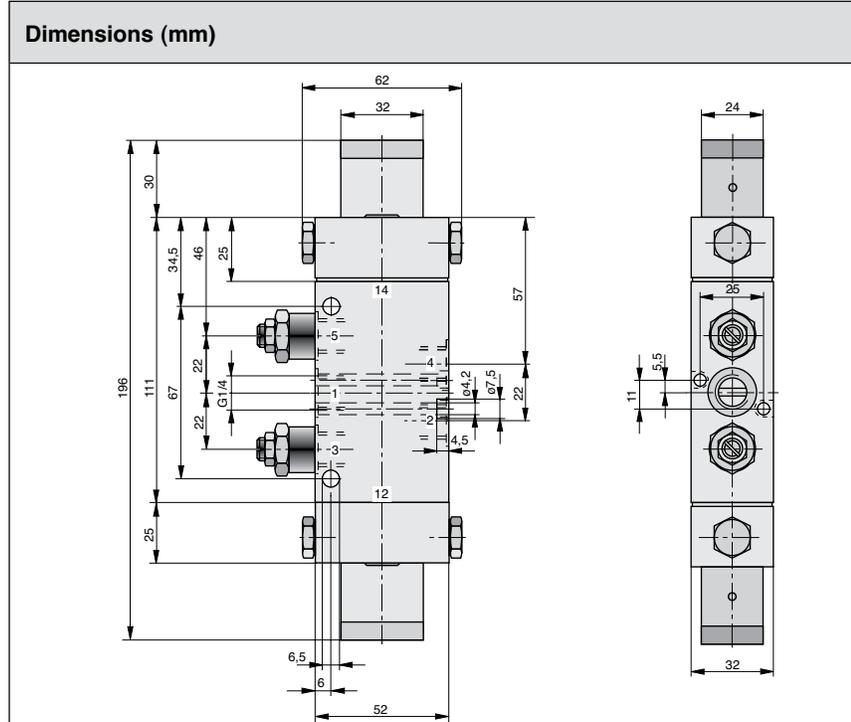
The oscillating valve is supplied with two built-in flow control valves. This makes it easy to adjust the stroke frequency of the actuator.

**Pneumatic Version:**

If compressed air is introduced into inlet port 1, the outlet ports 4 and 2 are alternately supplied with air.

Characteristics to VDI 3290 Pressures quoted as gauge pressure				
Characteristics	Symbol	Unit	Description	
<b>General Features</b>				
System			Spool valve	
Mounting			2 screws M6 (M4)	
Tube connection			Thread	
Port size		NPT (G)	1/4	
Weight (mass)		lbs. (kg)	1.43 (0.65)	
Installation			In any position	
Ambient temperature range	$\vartheta_{min}$ $\vartheta_{max}$	°F (°C)	14 (-10) 140 (+60)	Note: When using below freezing point it is necessary to consult factory.
Medium temperature range	$\vartheta_{min}$ $\vartheta_{max}$	°F (°C)	14 (-10) 158 (+70)	
Medium			Filtered compressed air	
Lubrication			With or without oil mist lubrication <sup>1)</sup>	
<b>Pneumatic Characteristics</b>				
Nominal pressure	$p_n$	psi (bar)	87 (6)	
Operating pressure range	$p_{min}$ $p_{max}$	psi (bar)	36 (3) 118 (8)	
Nominal flow	$Q_N$	Cv (l/min)	1.3 (1300)	
<b>Actuation</b>				
Pneumatic			Direct	
Actuating pressure range	$p_{st min}$ $p_{st max}$	psi (bar)	36 (3) 118 (8)	

<sup>1)</sup> We recommend the use of mineral oil type VG32 to ISO 3448



Version 1/4	Metric Version		NPT Version	
Description	Type Number	Order Number	Type Number	Order Number
Oscillating valve	S9 568/68-1/4-SO	PD 34796	S9 568/68-1/4U-SO	PD 45508

Characteristics to VDI 3290		
Pressures quoted as gauge pressure		
Characteristics	Unit	Description
<b>General Features</b>		
Type		Body ported valve
Style		Spool valve
Mounting		2 screws M6 (M4)
Tube connection		Thread
Port size	NPT (G)	1/4
Weight (mass)	lbs. (kg)	1.70 (.77)
Installation		In any position
Ambient temperature minimum maximum	°F (°C)	14 (-10) 140 (+60)
Medium temperature minimum maximum	°F (°C)	14 (-10) 158 (+70)
<b>Pneumatic Characteristics</b>		
Medium		Air
Nominal pressure	psi (bar)	131 (6)
Operating pressure minimum maximum	psi (bar)	36 (3) 118 (8)
Nominal flow	Cv (l/min)	1.3 (1300)
Filtration		40 micron recommended
Lubrication		With or without lubrication <sup>1)</sup>
<b>Electrical Characteristics</b>		
Voltage AC DC	V	110, 220 12, 24
Duty cycle		Continuous Duty
Electric protection		IP65 to DIN 40050
Insulating Material		VDE 0580
Connection		Plug to DIN 43650 form B
<b>Actuation</b>		
Electric manual override		(Internal) pilot operated yes

<sup>1)</sup> We recommend the use of mineral oil type VG32 to ISO 3448

Version 1/4			
Order Number	Description	Ports	Voltage
PD 47166-0133	5/2-way oscillating valve	1/4" NPT	12vDC
PD 47166-0233	5/2-way oscillating valve	1/4" NPT	24vDC
PD 47166-5733	5/2-way oscillating valve	1/4" NPT	110vAC

# 5/2-Way Valve 1/4

Oscillating Valve

**Actuation: Electric**

**Electric Version:**

Compressed air is introduced into inlet port 1. The outlet ports 4 and 2 are alternately supplied with air, for as long as an electrical signal is present at the solenoid coil.

