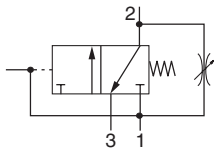


P3Y Combined Soft Start / Dump Valve - Large

- Modular design with 3/4" & 1" integral ports (BSPP or NPT)
- Provides for the safe introduction of pressure
- Automatically dumps downstream pressure on the loss of pilot signal
- Adjustable slow start
- Solenoid or air pilot options
- High flow & exhaust capability

P3Y Series Combined Soft Start / Dump Valves, provide for the safe introduction of pressure to machines or systems. Soft Start / Dump Valves when set, allow the pressure to gradually build to the set point before fully opening to deliver full flow at line pressure.

The controlled introduction of pressure can be an important safety factor and prevent damage to tooling when air pressure is introduced at machine or system start up.



Port Size	Description	Part Number
3/4"	Air pilot operated	P3YTA16PPN
3/4"	24VDC 30mm coil	P3YTA16SCNA2CN
1"	Air pilot operated	P3YTA18PPN
1"	24VDC 30mm coil	P3YTA18SCNA2CN

Operating Information

Operating pressure (max):	30mm coil	232 psig (16 bar)
Operating pressure (min):		2.9 psig (0.2 bar)
Operating temperature*:	Solenoid operated	14°F to 140°F (-10°C to 60°C)
	Air pilot operated	14°F to 140°F (-10°C to 60°C)
Air pilot port:		1/8"
Exhaust port:	NPT	3/4"
	BSPP	1"
Gauge port:		1/4"
Flow capacity†:	3/4"	371 scfm (175.1 dm³/s, ANR)
	1"	424 scfm (200.1 dm³/s, ANR)
Fluid:		Compressed air
Weight:	Air pilot	3.1 lb (1.4 kg)
	30mm coil	3.5 lb (1.6 kg)

† Inlet pressure 91.4 psig (6.3 bar) inlet pressure and 7.3 psig (0.5 bar) pressure drop.

* Air supply must be dry enough to avoid ice formation at temperatures below 35.6°F (2°C).

Snap pressure: Full flow when downstream pressure reaches 50% of the inlet pressure.

Ordering Information:

P3YTA 1 6 S C N A 2 C N

<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px; text-align: center;">Basic Series</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px; text-align: center;">Soft Start / Dump Valve P3YTA</div>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px; text-align: center;">Thread Type*</div> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">BSPP</td> <td style="text-align: center;">1</td> </tr> <tr> <td style="text-align: center;">NPT</td> <td style="text-align: center;">9</td> </tr> </table>	BSPP	1	NPT	9	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px; text-align: center;">Pilot Type</div> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">External Air Pilot</td> <td style="text-align: center;">P</td> </tr> <tr> <td style="text-align: center;">Solenoid Pilot</td> <td style="text-align: center;">S</td> </tr> </table>	External Air Pilot	P	Solenoid Pilot	S	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px; text-align: center;">Port Size</div> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">3/4"</td> <td style="text-align: center;">6</td> </tr> <tr> <td style="text-align: center;">1"</td> <td style="text-align: center;">8</td> </tr> </table>	3/4"	6	1"	8	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px; text-align: center;">Actuator Interface</div> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">30mm Operator</td> <td style="text-align: center;">C</td> </tr> <tr> <td style="text-align: center;">Threaded Air Pilot</td> <td style="text-align: center;">P</td> </tr> </table>	30mm Operator	C	Threaded Air Pilot	P	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px; text-align: center;">Solenoid type only</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px; text-align: center;">Solenoid Voltage</div> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">2CN</td> <td style="text-align: center;">24VDC</td> </tr> </table>	2CN	24VDC	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px; text-align: center;">Solenoid Type</div> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">A</td> <td style="text-align: center;">30mm CNOMO Coil</td> </tr> <tr> <td style="text-align: center;">D</td> <td style="text-align: center;">30mm CNOMO Coil (M12 connection)</td> </tr> </table>	A	30mm CNOMO Coil	D	30mm CNOMO Coil (M12 connection)
BSPP	1																											
NPT	9																											
External Air Pilot	P																											
Solenoid Pilot	S																											
3/4"	6																											
1"	8																											
30mm Operator	C																											
Threaded Air Pilot	P																											
2CN	24VDC																											
A	30mm CNOMO Coil																											
D	30mm CNOMO Coil (M12 connection)																											

* Note: For 1-1/2" ported unit, please order P3YKA*BCP port block kit separately.

Most Popular

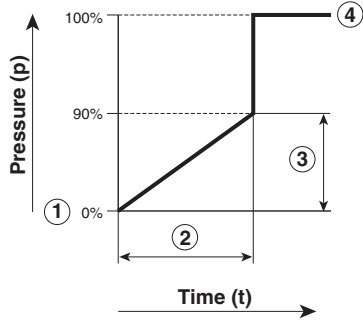


Material Specifications

Body	Aluminium
Body cover	ABS
Valve	Brass / NBR composite
Pilot valve booster	Aluminium
Seals	Nitrile NBR

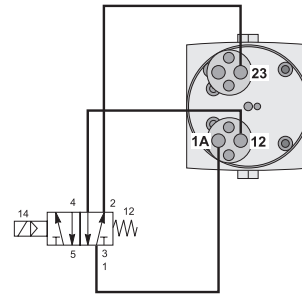
Note: For solenoid coil and cable plug options see solenoid operator pages.

Flow Characteristics



- ① Start signal
- ② Switching time delay
- ③ Gradual pressure build up
- ④ Operating pressure p² (= p¹)

Combined start / stop function



Combined start / stop function with acknowledgement

