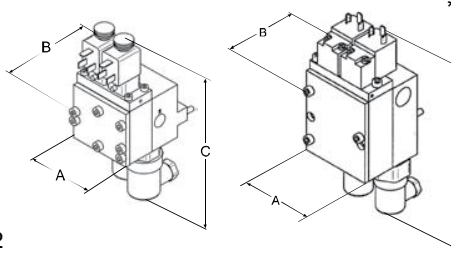


Series 35 SERPAR® Crossflow Double Valves

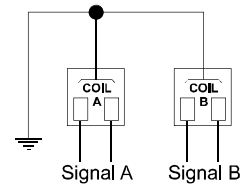
Size 1 & 2



Crossflow Size 1 Crossflow Size 2



* Non-monitored



Valve Size	Valve Model Number*	C Rating		Pressure Switches**	Press. Switch Provision	Port Sizes		Dimensions inches (mm)			Average Response Constants			Weight lb. (kg.)
		1-2	2-3			1 & 2	3	A	B	C	M	F In-Out	Out-Exh.	
1	3573B2632	0.9	1.4	None	Yes	1/4	1/4	2.7 (69)	3.3 (84)	5.0 (127)	28	4.6	3.4	2.1 (95)
1	3573B2640	0.9	1.4	None	No	1/4	3/8	2.7 (69)	3.3 (84)	5.0 (127)	24	4.4	3.1	2.1 (95)
1	3573B2642	0.9	1.4	Two	Yes	1/4	1/4	2.7 (69)	3.3 (84)	7.5 (191)	28	4.6	3.4	2.5 (1.14)
1	3573B2644	1.2	1.7	Two	Yes	3/8	3/8	2.7 (69)	3.3 (84)	7.6 (195)	25	3.1	2.8	2.9 (1.32)
1	3573B2645	1.2	1.7	None	Yes	3/8	3/8	2.7 (69)	3.3 (84)	5.1 (130)	25	3.1	2.8	2.5 (1.14)
2	3573B4620	3.7	6.6	None	No	1/2	1/2	3.4 (86)	3.2 (81)	6.3 (160)	30	1.2	1.0	4.3 (1.95)
2	3573B4632	3.7	6.6	None	Yes	1/2	1/2	3.4 (86)	3.2 (81)	6.5 (165)	30	1.2	1.0	4.3 (1.95)
2	3573B4640	3.7	9.0	None	No	1/2	3/4	3.4 (86)	3.2 (81)	6.5 (165)	25	1.1	0.9	4.3 (1.95)
2	3573B4642	3.7	6.6	Two	Yes	1/2	1/2	3.4 (86)	3.2 (81)	9.0 (229)	30	1.2	1.0	4.8 (2.18)
2	3573B4643	4.2	9.0	None	No	3/4	3/4	3.4 (86)	3.2 (81)	6.5 (165)	25	1.1	0.9	4.7 (2.13)
2	3573B4644	4.2	9.0	Two	Yes	3/4	3/4	3.4 (86)	3.2 (81)	9.0 (165)	25	1.1	0.9	5.2 (2.36)
2	3573B4645	4.2	9.0	None	Yes	3/4	3/4	3.4 (86)	3.2 (81)	6.5 (165)	25	1.1	0.9	4.7 (2.13)
2	3573B4652	3.7	9.0	None	Yes	1/2	3/4	3.4 (86)	3.2 (81)	9.0 (165)	25	1.1	0.9	4.3 (1.95)

* Model number includes base. For G threads, order with a "D" prefix. For JIS threads, order with a "J" prefix. Valve and base can be ordered separately; consult ROSS.

** Only valves with pressure switches should be used to control clutch/brake mechanisms on press machinery. The pressure switches must be used in conjunction with a monitoring device to assist with OSHA compliance (Ref. 1910.217).

Valve Response Time

The constants below, designated M and F, can be used to determine the amount of time required to fill or exhaust a volume of any size using the following formula:

$$Viv. \text{ Resp. Time (msec)} = M + F * V$$

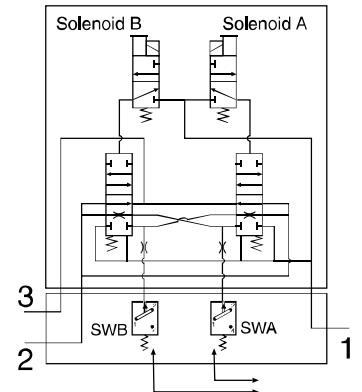
M= avg. time for parts movement

F= msec. per cubic inch of volume

V= volume in cubic inches

Pressure Switches & Monitoring:

Valves without pressure switches must not be used to control clutch/brake mechanisms on press machinery. Valves with pressure switches must be used in conjunction with an external monitoring device to assist with OSHA compliance (Ref. 1910.217). The valves on this page do not have a built-in monitor, and must only be used in conjunction with an external monitoring system. Such monitoring system must be capable of inhibiting the operation of the valve in the event of a failure within the valve.



To customer's external monitor

STANDARD SPECIFICATIONS:

Pilot Solenoids: Two, rated for continuous duty.

Standard Voltages: 100-110 volts 50 Hz; 100-120 volts 60 Hz; 24, 110 volts DC Other voltages available.

Power Consumption: *Size 1:* Each solenoid, 12 VA maximum inrush, 9.8 VA maximum holding on 50 or 60 Hz; 7.5 watts nominal on DC *Size 2:* Each solenoid, 8.5 VA maximum inrush, 8.5 VA maximum holding on 50 or 60 Hz; 6 watts maximum on DC

Electrical Connections: Uses two cord-grip connectors at solenoids (order separately). *Size 2 connectors, see page 16.*

Size 1 Connectors: (specify solenoid voltage for options with light). For use with dropcord (cord not included) 266K (w/o light) 267K77 (w/light)

Wired with 10-mm cord (cord exits upward) 372K77 (w/o light) 382K77 (w/light). Other options available; consult ROSS.

Ambient Temperature: 40° to 120° F (4° to 50°C).

Media Temperature: 40° to 175° F (4° to 80°C).

Flow Media: Filtered air. 5 micron recommended.

Inlet Pressure: 40 to 100 psig (2.8 to 7 bar).

CAUTION: If the system must be reset, electrical signals to both solenoids must be removed to prevent the machine from immediately recycling and producing a potentially hazardous condition.



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