



E18/E28 SLOW-START / QUICK DUMP VALVE

The E18 and E28 Slow-Start / Quick Dump Valves are designed as three-way quick dump valves with a built-in slow-start capability. This unique combination reduces the number of components in a pneumatic circuit by combining an electronic on/off valve with a slow-start valve in a single unit. The E18/E28 is designed with the same modular concept as Wilkerson's new 18/28 modular FRL product line and incorporates the same modern appearance and size. The E18/E28 also provides the same high flow rates as the S18/S28 slow-start valves.

The slow-start portion of the valve is adjustable and since it does not use a "bleed up to pressure" system, the Wilkerson unit is truly volume-independent. This is a unique advantage in that this design allows any number of additions to the

pneumatic circuit without having to re-adjust the slow-start function.

The E18/E28 will exhaust when the actuating valve on the unit is deactivated. The valves will exhaust on the P2 side of the unit with a Cv of at least 3.0 and will completely shut off the P1 side. Exhaust ports are conveniently located on the rear and downstream sides of the unit.

Features and Benefits

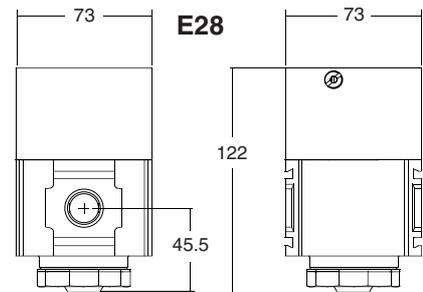
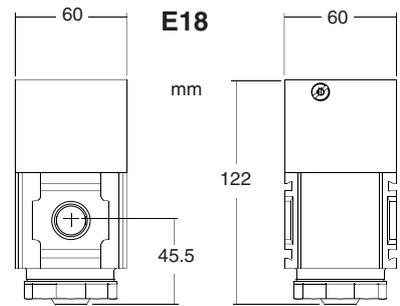
- Modular design
- Modern appearance
- True volume independence
- High flow capacity
- Choice of 2 exhaust ports

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Operation

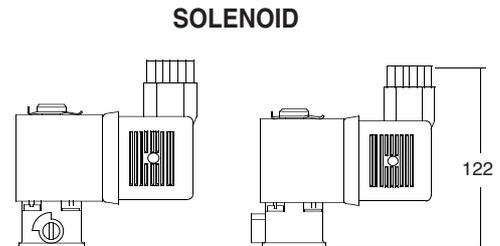
The time required to reach line pressure can be regulated by turning the adjusting screw on the front of the unit. Once this time is set, the unit will maintain this start time regardless of changes in volume, up to and including an open line on the downstream (P2) side. This **volume-independent** rise in secondary pressure is accomplished by balanced pistons located inside the exhaust valve that slowly regulate the pressure up to line pressure. This design is a departure from bleeding through a control orifice to increase downstream pressure, which has been the commonly used volume-dependent

approach. The Wilkerson volume-independent design also allows for a slow, controlled rise in pressure to a full 100% of line pressure. This is a significant advantage over the commonly used volume-dependent approach, where pressure bleeds to the P2 side and suddenly jumps to line pressure when downstream pressure reaches 40%-80% of the upstream line pressure. The Wilkerson volume-independent design eliminates this problem and the potential damage to delicate equipment that may result.



Specifications/Ordering Information

Slow-start adjusting range:	1.0 to 20 seconds
Exhaust Port:	3/8
Exhaust time:	1 second max. to start exhaust
Exhaust rate:	Cv 3.0 min.
Actuating valves:	KR and C.N.O.M.A. solenoids available (either 24 VDC or 110 VAC) Any three-way actuating valve with adapter can be used.



Model	Port Size BSP	Maximum Inlet Pressure	Maximum Flow	Maximum Operating Temp.	Minimum Exhaust Flow
E18-C2-EC00*	1/4	10,3 bar	44,8 dm ³ /s	79°C	Cv 3.0
E18-C3-EC00	3/8	10,3 bar	47,6 dm ³ /s	79°C	Cv 3.0
E18-C4-EC00	1/2	10,3 bar	53,3 dm ³ /s	79°C	Cv 3.0
E28-C3-EC00*	3/8	10,3 bar	92,5 dm ³ /s	79°C	Cv 3.0
E28-C4-EC00	1/2	10,3 bar	99,0 dm ³ /s	79°C	Cv 3.0
E28-C6-EC00	3/4	10,3 bar	108,5 dm ³ /s	79°C	Cv 3.0

*Two solenoid options available: "C" is 24 VDC and "D" is 120 VAC, 50/60.

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