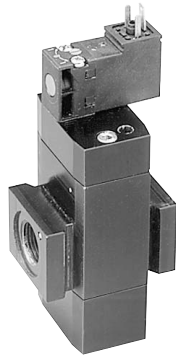


EMERGENCY STOP VALVES

Numbering System



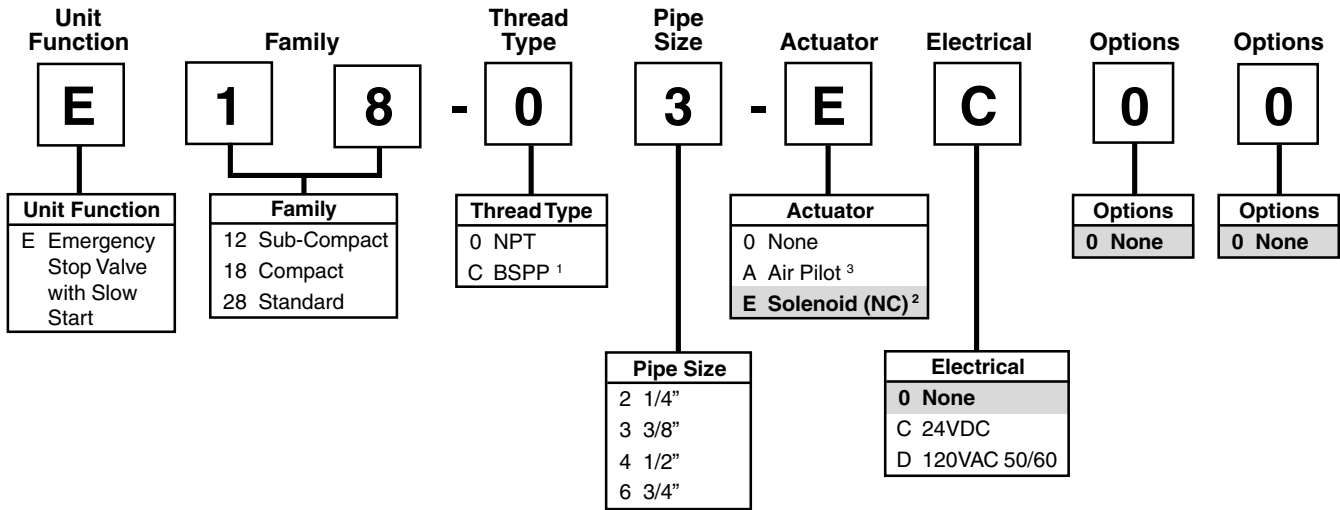
E12



E18 / E28

Emergency Stop Valve with Slow-Start Numbering System

 = "Most Popular"



¹ ISO, R228 (G Series).

² Normally Closed, KR Mount.

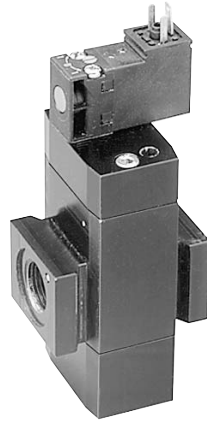
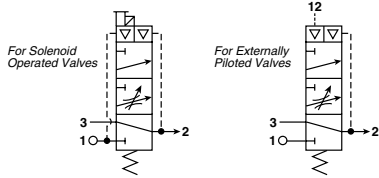
³ 12 Series Only.

Emergency Stop Valve with Slow-Start

The Emergency Stop Valve with Slow-Start is designed as a three-way Emergency Stop Valve with a built-in Slow-Start capability. This Slow-Start capability allows control of downstream pressure buildup at start-up of a compressed air system. The combination of Slow-Start and Emergency Stop reduces the number of pneumatic components and the unique volume-independent design allows any number of additions to the pneumatic circuit without readjusting the Slow-Start function.

E12 Soft Start / Quick Dump Valve

= "Most Popular"



Features

- Combines Soft Start and Quick Dump Valve in the same body
- Large flow capacities up to 1.6 Cv
- Inline or Modular mounting
- Air Pilot or Solenoid operation
- Soft Start flow easily adjusted

Specifications

Exhaust Port	3/8
Port Threads	Inlet and Outlet Ports 3/8 BSPP and BSPT port threads are available through the use of modular port block kits.
Pressure & Temperature Ratings	
Solenoid	60 to 150 PSIG (400 to 1035 kPa) 32° to 140°F (0° to 60°C)
Air Pilot	60 to 150 PSIG (400 to 1035 kPa) 32° to 160°F (0° to 70°C)
Weight	12.7 oz. (.36 kg)

Materials of Construction

Body	Aluminum
Seals	Nitrile
Slide Rings	Lubricant Filled Thermoplastic
Springs	Stainless Steel

Operation

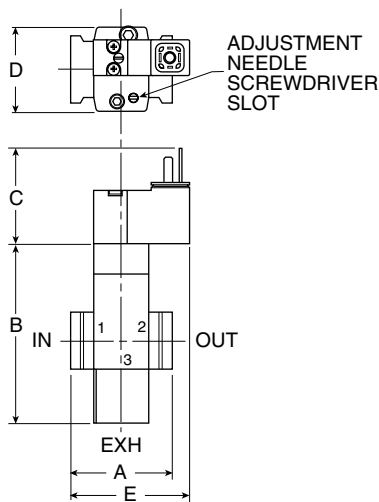
When the valve is installed into the pneumatic system and no pilot signal is received in Port 12 the air is exhausted through Port 3. When a pilot signal is received into Port 12 the valve shifts closing the connection between Ports 2 and 3. At the same time air flow begins between Ports 1 and 2 at a slow rate controlled by the throttling control needle, located on the front of the valve. When the down stream pressure reaches approximately 60 PSIG (400 kPa) the main valve spool opens allowing full flow through the valve into your system.

If there is a loss of pilot signal or system pressure at anytime the valve returns to it's initial state venting the down stream pressure through Port 3.

The valves pilot signal can either be supplied as a pneumatic pilot directly piped into Port 12, on the top of the valve, or through a solenoid pilot mounted on the head. The valve should be mounted downstream of the FRL and with the soft start adjustment needle easily accessible.

CAUTION: Do not use synthetic, reconstituted, or oils with an alcohol content or detergent additive.

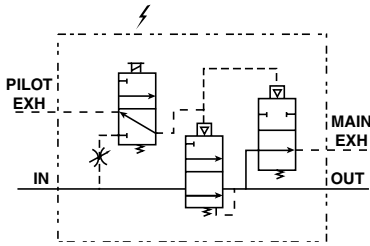
CAUTION: Do not restrict the inlet of valves having an internal pilot supply. Pressure supply piping must be the same size as the inlet port or larger to insure that the pilot valve receives sufficient pressure supply during high flow conditions.



Dimensions

Models	Inches (mm)	A	B	C	D	E
Standard Unit E12-XX-AC00		2.00 (51)	3.53 (90)	1.42 (36)	1.65 (42)	2.03 (52)

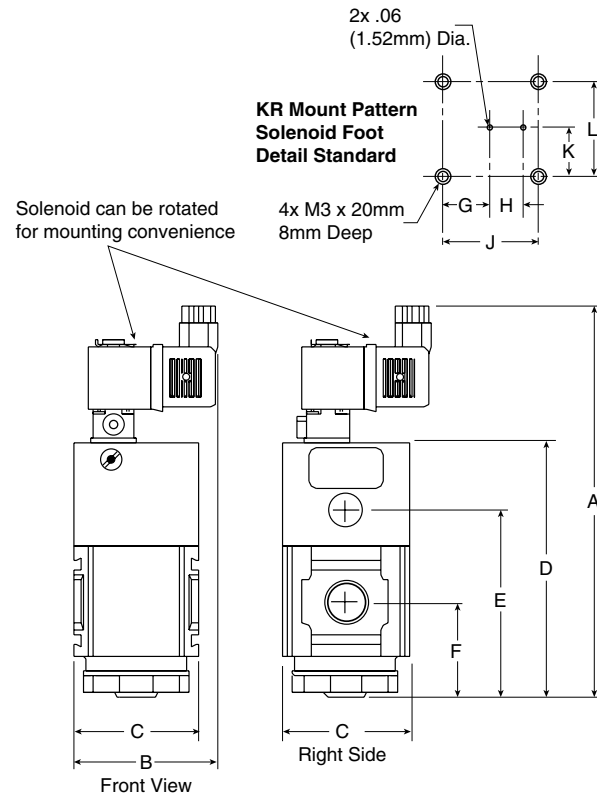
Emergency Stop Valve E18 / E28



E18-03-EC00

Features

- Modular Design
- True Volume Independence
- High Flow Capacity
- Choice of Two Exhaust Port Locations



Dimensions

Models	Inches (mm)	A	B	C	D	E	F	G	H	J	K	L
Standard Unit E18-XX-EC00		7.32 (186)	2.70 (68.5)	2.36 (60)	4.79 (121.6)	3.52 (89.4)	1.79 (45.4)	0.28 (7.0)	0.18 (4.6)	0.55 (14)	0.28 (7.0)	0.55 (14)
Standard Unit E28-XX-EC00		7.32 (186)	2.96 (75.1)	2.88 (73.1)	4.79 (121.6)	3.52 (89.4)	1.79 (45.4)	0.28 (7.0)	0.18 (4.6)	0.55 (14)	0.28 (7.0)	0.55 (14)

= "Most Popular"

Specifications

Flow Capacity*	E18 1/4	95 SCFM (44,8 dm ³ /s)
	3/8	101 SCFM (47,7 dm ³ /s)
	1/2	113 SCFM (53,3 dm ³ /s)
	E28 3/8	196 SCFM (92,5 dm ³ /s)
	1/2	210 SCFM (99,1 dm ³ /s)
	3/4	230 SCFM (108,5 dm ³ /s)
Operating Temperature	32° to 150°F (0° to 65,5°C)	
Maximum Supply Pressure	150 PSIG (10,3 bar)	
Minimum Pressure	30 PSIG (2,1 bar)	
Port Size	NPT / BSPP-G	E18 1/4, 3/8, 1/2
		E28 3/8, 1/2, 3/4
Exhaust Ports Right Side and Rear	NPT / BSPP-G	E18 3/8
		E28 3/8
Weight	lb. (kg)	E18 2.23 (1,01)
		E28 2.50 (1,14)

* Inlet pressure 150 PSIG (10,3 bar). Pressure drop 5 PSID (0,3 bar).

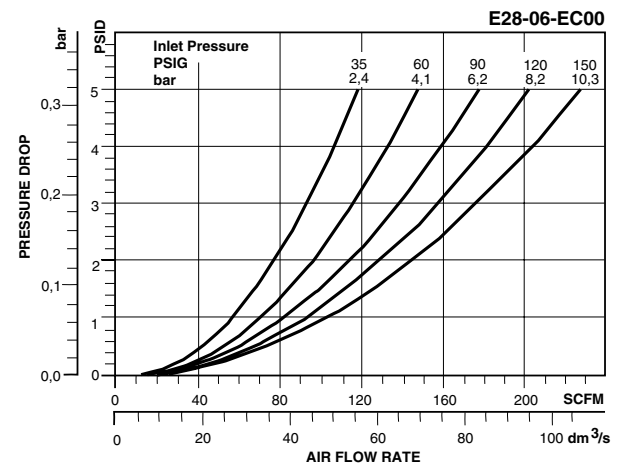
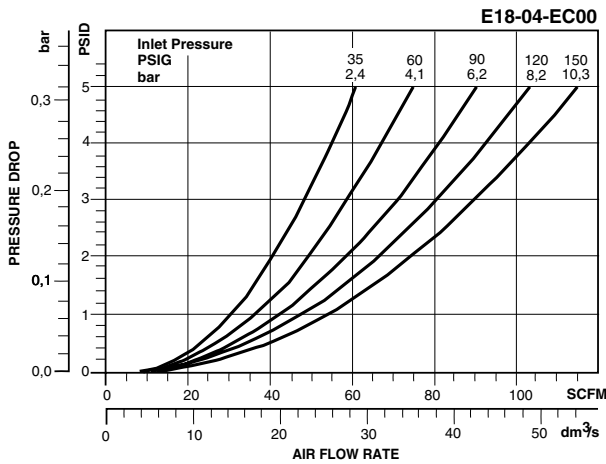
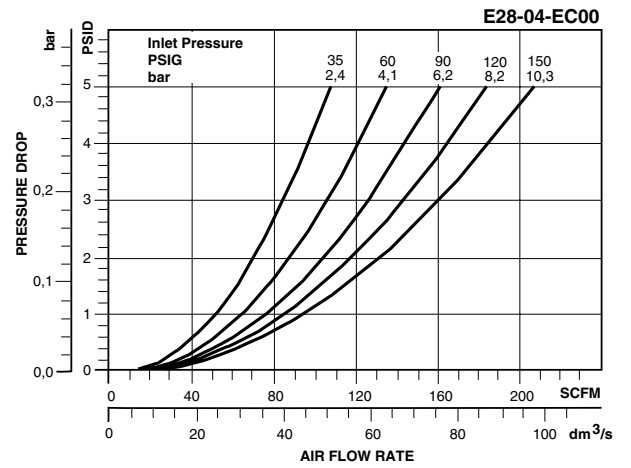
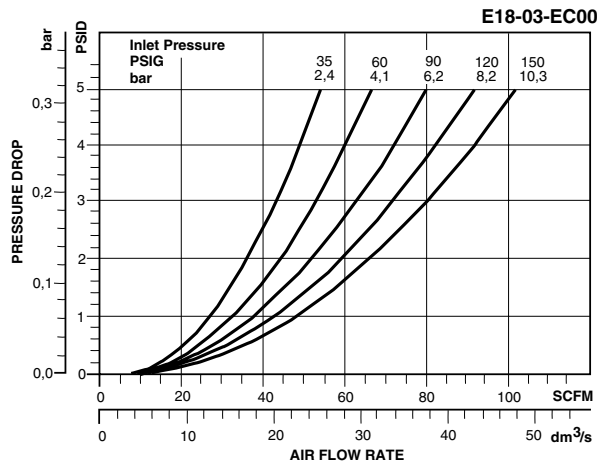
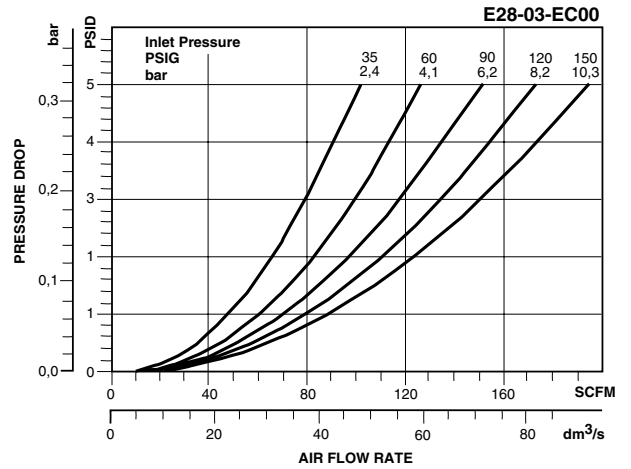
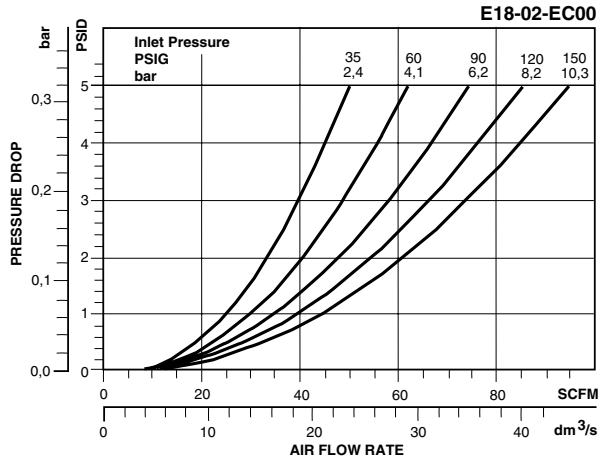
Materials of Construction

Body	Aluminum
Bottom Plug	33% Glass-Filled Nylon
Valve Assembly	Brass / Nitrile
Springs	Music Wire / S.S.
Seals	Nitrile

Replacement Kits

Actuating Valve, KR Mount, 24 VDC	VRP-95-776
Actuating Valve, KR Mount, 120 VAC	VRP-95-777
Actuating Valve, CNOMO, 24 VDC	VRP-95-778
Actuating Valve, CNOMO, 120 VAC	VRP-95-779
Muffler	VRP-95-780
Bottom Valve And Valve Spring	VRP-95-781
Slide Valve	VRP-95-782
Body Cap Kit (E18)	VRP-95-784
Body Cap Kit (E28)	VRP-95-785
KR to CNOMO adapter block	VRP-95-712

= "Most Popular"

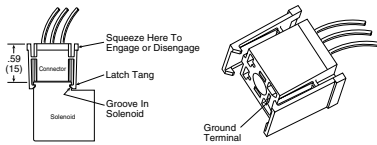


Ordering Information

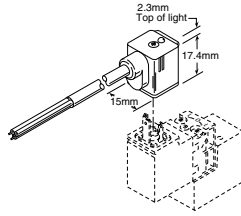
Model Type	Port Size	24V / DC N.C.	120V / 60 Hz N.C.
E18	1/4	E18-02-EC00	E18-02-ED00
	3/8	E18-03-EC00	E18-03-ED00
	1/2	E18-04-EC00	E18-04-ED00
E28	3/8	E28-03-EC00	E28-03-ED00
	1/2	E28-04-EC00	E28-04-ED00
	3/4	E28-06-EC00	E28-06-ED00

Options - To order an option supplied with the unit model, add the appropriate coded suffix letter in the designated position of the model number.

= "Most Popular"



VRP-96-306



VRP-96-304

Kits & Accessories

- 3-Pin Female Connector Kit** VRP-96-301
- 24VAC Lighted 3-Pin Connector Kit** VRP-96-302
- 120/110VAC Lighted 3-Pin Connector Kit** VRP-96-303
- 3-Pin Connector Kit, 24VAC or 24VDC
w/6 Foot Cord* VRP-96-304
- 3-Connector Kit, 120/110VAC w/6 Foot Cord* VRP-96-305
- 1/2 Meter Cord (18 Inch)* VRP-96-306
- 3/8" Exhaust Silencer (05S) ES37MB

* Conductors: 2 Poles Plus Ground Contact Spacing: 8mm

† Cable Range: 6 to 8mm (0.24 to 0.31 Inch)

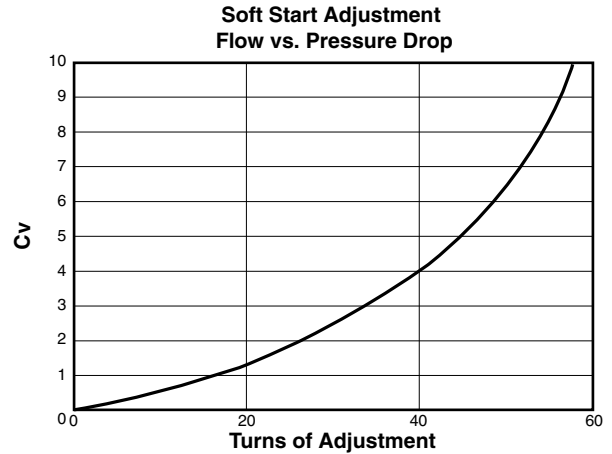


Table 1: Shows the relationship between the inlet pressure and downstream pressure at which the main valve opens.

Inlet Pressure PSIG	Downstream Pressure PSIG
75	50
100	55
125	60
150	65

Table 2: Product forward Flow Cv and Exhaust Flow Cv.

	Flow Cv	Exhaust Flow Cv
E12	1.3	1.6

Ordering Information

Model Type	Port Size	24V / DC N.C.	120V / 60 Hz N.C.
E12	3/8	E12-03-AC00	E12-03-AD00

Options - To order an option supplied with the unit model, add the appropriate coded suffix letter in the designated position of the model number.