

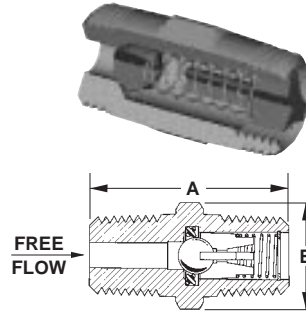
Check Valves

CMM Series

Space saving, in-line design for the control of air and liquids.

Features:

- Metal to Metal seal for leak-free liquid service.
- O-ring design for leak-free air service.
- Steel valves are zinc-plated and sealed with clear chromate for double corrosion protection.



Specifications:

Maximum Operating Pressure	See Ordering Information
Temperature Range	-20°F to +400°F
Cracking Pressure	See Ordering Information
CV Factor	See Ordering Information

Ordering Information:

Part Number	Body Material	Seal	Port Size (NPT) Male	A (In.)	B (In.) Hex	Orifice Diameter (In.)	CV	Cracking Pressure (PSIG)	Maximum Pressure (PSIG)
CMM250B	Brass	Metal	1/4	1 5/32	9/16	3/16	.5	7	1000
CMM250B-L		Viton							
CMM375B		Metal							
CMM250S	Steel	Metal	1/4	1 5/32	9/16	3/16	.5	7	3000
CMM250S-L		Viton							
CMM375S		Metal							

Materials:

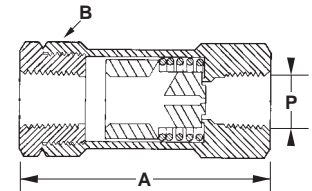
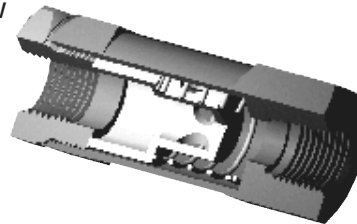
Body	ASTM B 16 Brass or 12L14 Steel
Ball	Stainless Steel
Retainer	Brass or Steel
Spring	Stainless Steel

8830E Excess Flow Check Series

Designed to automatically close when air flow exceeds a safe level. For use on all compressed air hoses leading to air tools and pneumatic components.

Features:

- Re-sets automatically.
- In-line design for easy installation.



Operation:

During normal operation, a specially molded seal (A) is held away from its seat (B) by spring (C). Air flow is allowed to pass through the orifice (D). When a sudden surge of air flow occurs which exceeds the rated flow of the valve, the resulting pressure differential forces the spring to compress and the seal to contact its seat as in figure 2. After the cause of the higher air flow is repaired, air passing through orifice (E) slowly builds downstream pressure until the differential is low enough for the spring to return the seal to its normal position.

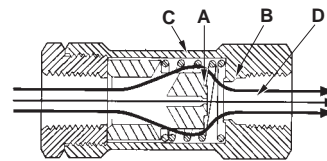


fig. 1 Normal flow condition

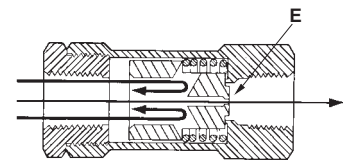


fig. 2 Shut-off condition

Specifications:

Maximum Operating Pressure	250 PSIG Air
Temperature Range	-40°F to +250°F

Materials:

Body	Aluminum
Seat	Delrin
Spring	Stainless Steel

Ordering Information:

Part Number	P (NPT) Female	A (In.)	B (In.) Hex	Approximate closing flow rate (Standard cubic feet per minute/air)							Pressure Drop to Close Valve @ 100 PSIG
				(Inlet Pressure PSIG)							
				25	50	90	125	150	200	250	
8830E3	3/8	3 1/2	1 3/8	29	38	48	56	60	69	76	1 1/2 to 3
8830E4	1/2			50	65	80	90	100	115	125	3 to 5
8830E6	3/4	5	2 1/4	140	175	200	260	280	320	360	1 1/2 to 4
8830E8	1			210	265	340	395	425	490	540	5 to 7

*To obtain closing flow rates at an inlet pressure, P, that is not shown above, use the following formula:

$$\text{Closing Flow} = \frac{\text{SCFM at 100 PSIG}}{(P + 14.7) / 104.7}$$