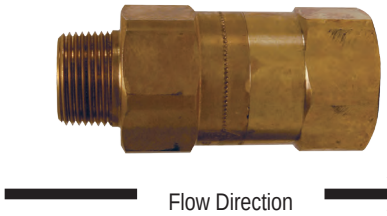
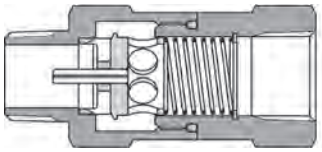
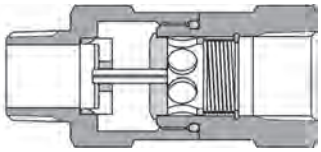
Safety Check Valves



Flow Direction



Check Valve in Open Position



Check Valve in Closed Position

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Application:
- used in temporary plant/factory air lines, construction sites, shipyards or utilities
- not for use in applications where 100% of the available air is required, i.e. sand blast, pile driving rigs,expansion joint blow down pipes, etc.

Features:
- high flow valve provides optimum performance
- controls excess air flow (SCFM) in only one direction
- automatically senses change in air flow and shuts off the flow in the event of a surge in excess of valve flow rating thus preventing hose whip
- solid brass body and valve
- stainless steel spring and roll pin
- maximum operating pressure: **250 PSI**
- maximum temperature: **250°F**
- does not prevent backflow

Specification:
- conforms to OSHA regulation 1926.302 (b) (7) requiring a safety device at the source of the air supply and at branch air lines

How It Works:
- Safety check valves utilize the pressure differential across the valve to operate the valve and spring assembly. The pressure differential is directly related to the flow of air (SCFM) through the valve.
- When the pressure differential is within the operating limits - below the cutoff flow - of the unit, the force on the valve exerted by the spring is greater than that caused by the pressure differential (see "Open Position" graphic above). The valve remains open and normal operation continues.
- When the pressure differential is above the cutoff limit, the force on the valve exerted by the pressure differential is greater than the force exerted by the spring, and the valve closes (see the "Closed Position" graphic above).
- After the repair is made, normal operation is automatically enabled when pressure across the valve equalizes through the bleeder hole.
- The valve spring size can be specified by determining the air flow during normal operation and by estimating the air flow if a failure or rupture occurs.

NPT and Hose ID Size	Part #	Cut-off Flow Rate (SCFM at 90 PSI)	Price/E
¼"	***SCVL2***	23-29	**$62.58**
⅜"	***SCVM3***	39-47	**58.70**
	SCVS3	52-65	**58.70**
½"	***SCVM4***	70-78	**63.03**
	SCVS4	80-96	**63.03**
¾"	***SCVL6***	72-88	**99.76**
	SCVM6	92-108	**99.76**
	SCVR6	112-128	**99.76**
	SCVJ6	132-148	**99.76**
	SCVS6	160-180	**99.76**
	SCVH6	180-200	**99.76**
1"	***SCVL8***	165-195	**112.83**
	SCVM8	220-260	**112.83**
	SCVS8	280-320	**112.83**
	SCVH8	310-340	**112.83**
1¼"	***SCVL10***	260-290	**$233.05**
	SCVM10	300-340	**233.05**
	SCVS10	440-500	**233.05**
	SCVH10	570-630	**233.05**
1½"	***SCVL12***	300-360	**390.91**
	SCVM12	470-530	**390.91**
	SCVS12	640-720	**390.91**
	SCVH12	750-830	**390.91**
2"	***SCVL16***	510-590	**533.79**
	SCVM16	725-825	**533.79**
	SCVS16	900-1050	**533.79**
	SCVH16	1100-1200	**533.79**
3"	***SCVL24***	1200-1400	**2266.67**
	SCVS24	2400-2700	**2266.67**
	SCVH24	2850-3050	**2266.67**