

SCV-Series Pneumatic Couplings

Interchange Data:

- Hansen FS-Series

Materials:

- Machined components are manufactured using solid brass bar stock.
- Stainless steel springs and roll-pins maximize corrosion resistance and extend service life.

Seal Components:

- Nitrile (Buna-N) seals are standard, providing a temperature range of -40°F to +250°F (-40°C to +121°C).

Features:

- does not prevent backflow
- High flow design results in maximum flow with minimal pressure drop.
- Automatically and instantly protects the operator against hose whip in the event of a damaged hose or coupling.
- In the event of a hose rupture or coupling failure, the valve will automatically reset after the problem is fixed.
- SCV-Series is available in a large selection of sizes ranging from 1/4" to 3", NPTF (BSPP/BSPT threads on request).
- Valve operation is fully compliant with OSHA Safety Regulation 1926.302(b)(7), as shown on page 3.



Not recommended for applications requiring 100% of the available air supply. These applications include, but are not limited to, sand blast equipment, pile driving rigs, and expansion joint blow down pipes. It is recommended to install auxiliary safety devices, including Safety Cables, to ensure optimum safety for the operator in the event of a coupling failure or hose rupture.

Use:

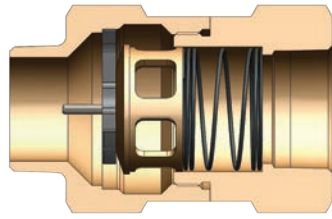
- Safety check valves operate by using the pressure differential across the valve to operate the valve and spring assembly. The pressure differential is directly related to the flow of air (SCFM) through the valve.
- When the pressure differential is within the operating limits - below the cutoff flow - 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 on next page). 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 on next page).
- 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.

Technical Specifications:

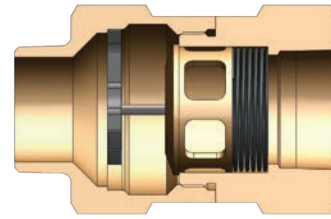
Performance Specifications	Maximum Operating Pressure - Bar (PSI)	Minimum Burst Pressure - Bar (PSI)	Air Flow * 30.5m (100')
1/4"	17 (250)	138 (2,000)	17 SCFM
3/8"	17 (250)	138 (2,000)	41 SCFM
1/2"	17 (250)	138 (2,000)	77 SCFM
3/4"	17 (250)	138 (2,000)	178 SCFM
1"	17 (250)	138 (2,000)	340 SCFM
1-1/4"	17 (250)	138 (2,000)	620 SCFM
1-1/2"	17 (250)	138 (2,000)	940 SCFM
2"	17 (250)	138 (2,000)	1,760 SCFM
2-1/2"	17 (250)	138 (1,500)	2,800 SCFM
3"	17 (250)	138 (1,200)	4,200 SCFM

* Air flow rating is based upon calculated values using unobstructed air flow for the applicable hose size.

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Open



Closed

Body Size	SCV-Series Excessive Flow Sensor (Male to Female Threads)							
	Part Detail				Cutoff Flow - SCFM (90 PSI Inlet Pressure)	Weight Lb	Package Qty	
	Part Number	Threads	Material				Bag	Box
1/4"	SCVL2	1/4" - 18 NPTF	brass		23-29	0.13	5	25
3/8"	SCVL3	3/8" - 18 NPTF	brass		30-36	0.19	5	25
3/8"	SCVM3	3/8" - 18 NPTF	brass		39-47	0.19	5	25
3/8"	SCVS3	3/8" - 18 NPTF	brass		52-65	0.19	5	25
1/2"	SCVM4	1/2" - 14 NPTF	brass		70-78	0.50	5	20
1/2"	SCVS4	1/2" - 14 NPTF	brass		80-96	0.50	5	20
3/4"	SCVL6	3/4" - 14 NPTF	brass		72-88	0.81	-	10
3/4"	SCVM6	3/4" - 14 NPTF	brass		92-108	0.81	-	10
3/4"	SCVR6	3/4" - 14 NPTF	brass		112-128	0.81	-	10
3/4"	SCVJ6	3/4" - 14 NPTF	brass		132-148	0.81	-	10
3/4"	SCVS6	3/4" - 14 NPTF	brass		160-180	0.81	-	10
3/4"	SCVH6	3/4" - 14 NPTF	brass		180-200	0.81	-	10
1"	SCVL8	1" - 11 1/2 NPTF	brass		165-195	1.50	-	5
1"	SCVM8	1" - 11 1/2 NPTF	brass		220-260	1.50	-	5
1"	SCVS8	1" - 11 1/2 NPTF	brass		280-320	1.50	-	5
1"	SCVH8	1" - 11 1/2 NPTF	brass		310-340	1.50	-	5
1-1/4"	SCVL10	1-1/4" - 11 1/2 NPTF	brass		260-290	2.19	-	5
1-1/4"	SCVM10	1-1/4" - 11 1/2 NPTF	brass		300-340	2.19	-	5
1-1/4"	SCVS10	1-1/4" - 11 1/2 NPTF	brass		440-500	2.19	-	5
1-1/4"	SCVH10	1-1/4" - 11 1/2 NPTF	brass		570-630	2.19	-	5
1-1/2"	SCVL12	1-1/2" - 11 1/2 NPTF	brass		300-360	5.00	-	1
1-1/2"	SCVM12	1-1/2" - 11 1/2 NPTF	brass		470-530	5.00	-	1
1-1/2"	SCVX12	1-1/2" - 11 1/2 NPTF	brass		564-602	5.00	-	1
1-1/2"	SCVS12	1-1/2" - 11 1/2 NPTF	brass		640-720	5.00	-	1
1-1/2"	SCVH12	1-1/2" - 11 1/2 NPTF	brass		750-830	5.00	-	1
2"	SCVL16	2" - 11 1/2 NPTF	brass		510-590	8.13	-	1
2"	SCVM16	2" - 11 1/2 NPTF	brass		725-825	8.13	-	1
2"	SCVS16	2" - 11 1/2 NPTF	brass		900-1050	8.13	-	1
2"	SCVH16	2" - 11 1/2 NPTF	brass		1100-1200	8.13	-	1
3"	SCVL24	3" - 11 1/2 NPTF	brass		1200-1400	11.60	-	1
3"	SCVS24	3" - 11 1/2 NPTF	brass		2400-2700	11.60	-	1
3"	SCVH24	3" - 11 1/2 NPTF	brass		2850-3050	11.60	-	1

Contact Factory for cut-off flow values at other inlet pressures.