

HANTEMP Controls

Bulletin SCV0815e

SCV Stainless Steel Weld In-Line Check Valve

Made in
U.S.A.

iiar
International Institute of
Ammonia Refrigeration



SCV 1" SW

DESCRIPTION

The HANTEMP Controls Stainless Steel SCV Weld In-Line Check Valve is compact and built for longevity. Ideally suited for refrigerant directional flow applications, the valve remains in an open position as flow moves in the direction of the arrow on the valve's body. The valve closes promptly when reverse pressure occurs.

The valve can be welded directly in-line for a Schedule 40 (standard) or Schedule 10 pipe connection.

MATERIALS & SPECIFICATIONS

Body: Stainless Steel

Seating and Spring: Stainless Steel

Nominal Size: 1"

Safe Working Pressure: 800 psig

Operating Fluid Temperature: -100°F to +600°F

WELD INLINE CHECK VALVE FOR INDUSTRIAL REFRIGERATION

$\frac{3}{4}$ " to 1 $\frac{1}{4}$ "

- Ideal for packaged units, evaporator defrost control, and receiver pressure winter control
- Stainless steel body, spring, and seating
- No flanges, gaskets, or o-rings

SCV Available End Connections

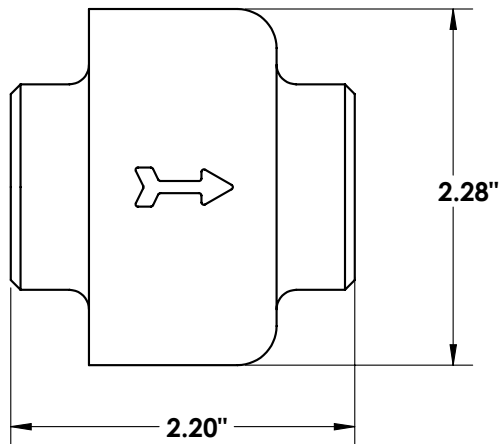
Connection Type	Available Sizes
Socket Weld	$\frac{3}{4}$ ", 1"
Butt Weld (Schedule 40/10)	1", 1 $\frac{1}{4}$ "

Typical Order: SCV 1" SW

FEATURES:

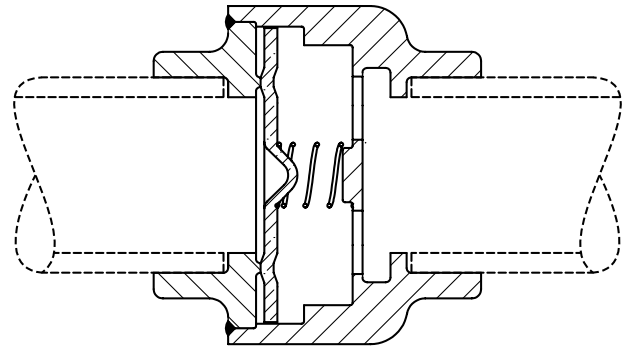
- Durable stainless steel body, spring and seating
- Low pressure drop
- Lapped stainless to stainless seating
- Stainless steel weld in-line design requires no flanges, O-rings, or gaskets
- Suitable for ammonia, CO₂, halocarbons, and secondary refrigerants such as glycols
- Weld without disassembly
- Compact and rugged design
- Easily insulated

SCV Check Valve Installation Dimensions



*1" Valve with Butt Weld
Connection Shown*

SCV Check Valve Cross Section



*1" Valve with Socket Weld
Connection Shown*

INSTALLATION

The SCV Check Valve is designed for welding directly in-line via socket weld or butt weld end connections. Valve must be installed with the directional flow arrow matching the direction of the refrigerant flow. When used with valves, check valves should be installed on the outlet side of valve including system pressure regulators, solenoid valves and control valves.

SAFETY WARNING

The valve should be serviced only by an experienced refrigeration professional. Before servicing, the valve should be isolated from the system and all refrigerant evacuated from the piping. There are no removable parts, seals, or replacement components. In the event of malfunction, the SCV should be replaced. The valve is generally not recommended for reciprocating compressor discharge close-coupling applications.

SIZING

Check valve sizing is generally determined based on the line size. The SCV Check Valve is available in 3/4", 1" and 1 1/4" pipe sizes, and will be supplied for Schedule 40 wall thickness unless Schedule 10 is specified at the time of order. Valve sizing assistance is available via the HANTEMP Controls factory.

WARRANTY

All HANTEMP Controls products, except electric motors and electric items, are warranted against defects in workmanship and materials for a period of one year from date of shipment from the factory. This warranty is applicable only when products are properly installed and operated in conventional use and service unless an application is approved in writing by HANTEMP Controls.

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HANTEMP Controls reserves the right to alter product specifications, materials, and pricing without notice.