

HANTEMP Controls

Bulletin QSV0915a

Quick Service Valve



DESCRIPTION

The HANTEMP Controls QSV Quick Service Valve is light-weight, compact, and built to last. Ideally suited for applications as service valve to the HANTEMP COBRA-NECK® Ball Valve, the QSV is a half-flanged stainless steel ball valve designed for ideal flow characteristics and easy dismantling for service.

The QSV is flanged on one end and weld in-line on the opposite end. It features a slotted groove on the inlet of the valve that acts as a heat break, allowing the valve to be welded as assembled from the factory. Port sizes are available for 3/4" through 1 1/4" with socket or butt weld end connection on the inlet and 2 bolt male or female flange connection on the outlet. It is also available in 1 1/2" and 2" weld in-line connection and 4 bolt female flange connection on the outlet. Stem seals are located at the top of the neck, away from ice buildup, and are serviceable without removing insulation.

APPLICATIONS

The QSV from HANTEMP Controls can be close coupled to flanged COBRA-NECK® Ball Valves, and control valves and strainers, such as Hansen or Parker R/S components, for service valve applications. As a column equalizing service valve, the QSV is suitable for accumulators, receivers, low-side receivers and other column isolation applications. Additionally, the QSV is suitable for isolation of float switches, liquid level columns and oil pots, equalizing lines and shut-off service.

MATERIALS & SPECIFICATIONS

Body: Stainless Steel

Safe Working Pressure: 750 psig (52 bar)

Operating Fluid Temperature:

-75°F to +240°F (-60°C to +115°C)

Approved Refrigerants Include:

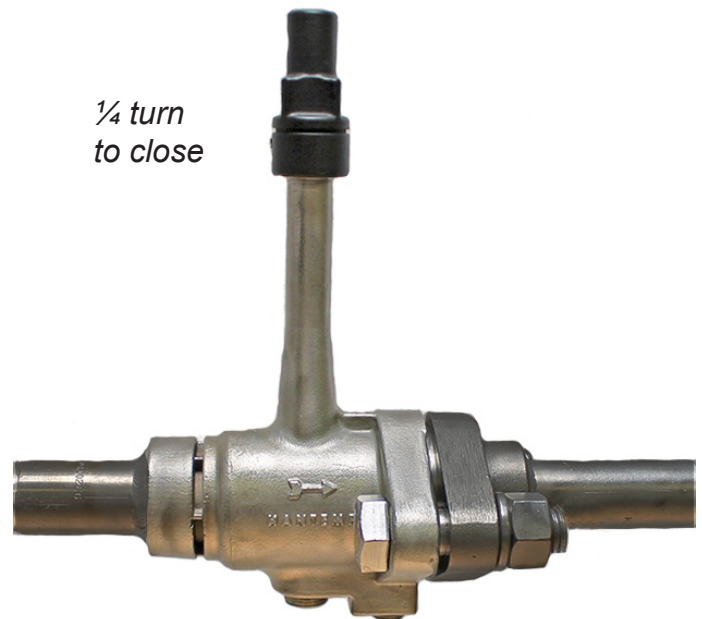
R717 (NH₃), R744 (CO₂), R22, R134a, R507A, R404C, R410, Glycols, Water, Aqueous Ammonia, Subcritical CO₂

Typical Order: QSV 1" SW with 1" SW Flange

**QSV QUICK SERVICE VALVE;
COLUMN EQUALIZING &
SHUT-OFF SERVICE VALVE**

**3/4" to 2" SW & WN
1 1/8", 1 3/8", 2 1/8" ODS**

STAINLESS STEEL BODY



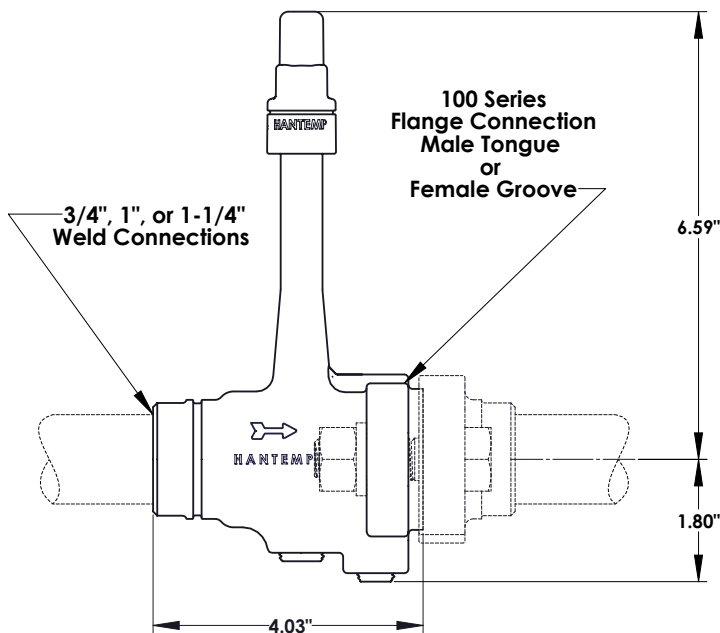
*1/4 turn
to close*

QSV 1"

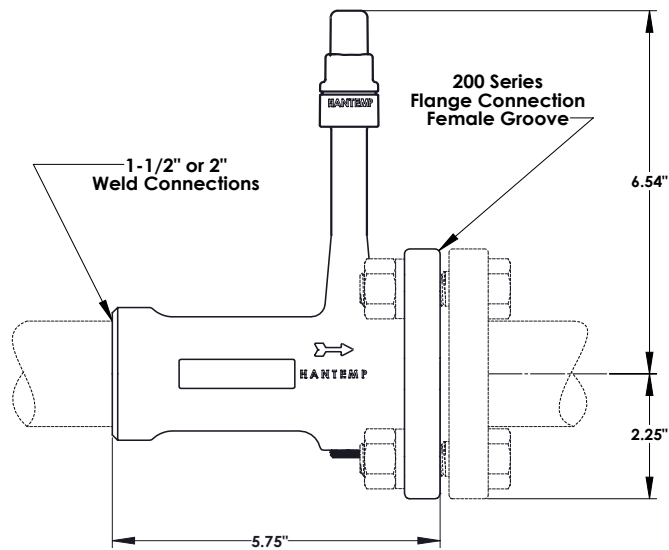
FEATURES:

- Acts as a flanged union with shut-off
- Valve's open to close is 90° rotation
- Slotted groove on valve inlet is a heat break for easy weld installation
- Can be welded without being disassembled
- 1/4" gauge port for oil draining and pump out
- Optional flange, stainless steel nuts, bolts, lock washers and gaskets
- Stem has a spring loaded back seat for servicing stem seals

Installation Dimensions



3/4", 1", and 1 1/4" Pipe Sizes

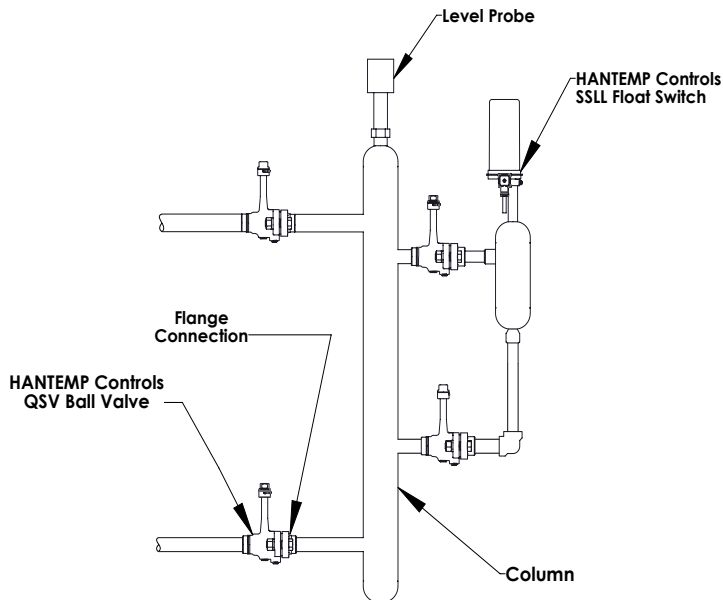


1 1/2 and 2" Pipe Sizes

INSTALLATION

Do not remove the protective packaging until ready for installation to avoid dirt. The QSV Quick Service Valve is designed for welding directly in-line via socket weld or butt weld end connection on one side, and a flanged union connection on the other side. Valves should be installed with the directional flow arrow matching the direction of refrigerant flow. Prior to and during the welding process, keep dirt from entering the valve.

QSV Quick Service Valve Column Equalizing Application



SIZING

Quick Service Valve size is generally determined based on line size. The QSV Quick Service Valve is available in 3/4" - 2" pipe connections and 1 1/8", 1 3/8", and 2 1/8" ODS copper tubing. Butt Weld Connections will be supplied for Schedule 40 wall thickness unless Schedule 10 is specified at the time of order. Valve sizing assistance is available via contact with the factory. Mating flange must be ordered separately.

SAFETY WARNING

The valve should only be installed, maintained and serviced by an experienced refrigeration professional. Before servicing the valve, it should be isolated from the system and all refrigerant evacuated from the piping.

WARRANTY

All HANTEMP Controls products, except electric motors and electric items, are warranted against defects in workmanship and materials for a period of one (1) year from date of shipment from the factory. This warranty period is applicable only when products are properly installed and operated in use and service as specifically stated in HANTEMP Controls product bulletins unless approved in writing by HANTEMP Controls.