

HANTEMP Controls

Bulletin QSV0915c

QSV Quarter-Turn Service Valves

DESCRIPTION & APPLICATIONS

The **stainless steel** QSV quarter-turn ball valve is an ideal isolation valve for service. It can be close coupled to flanged COBRA-NECK® Ball Valves, flanged Pressure Regulators or Solenoid Valves from HANTEMP, Hansen or Parker R/S for shut-off valve use or included with HANTEMP RR Flexible Stations (RR = Repair or Replace). Additional applications include connection between a vessel and a flanged controls column, service valve/union combination, and isolation of float switches and liquid level columns. Supplied as an inlet/outlet pair for RR platform permitting control module repair or removal without system main isolation. **QSVE version has a TD (tear-drop) port ball for liquid expansion or overfeed control.**

Sizes available for 3/4" through 2 1/2". Socket weld connection standard on 3/4", 1", and 1 1/2"; butt weld standard for 1 1/4" and 2 1/2". Other end connection is a male flange; standard 2-bolt Size 100 up to 1 1/4" and standard 4-bolt Size 200 from 1 1/2" to 2 1/2". Rotary stem seals are located at the top of the neck, above insulation and frost.

MATERIALS & SPECIFICATIONS

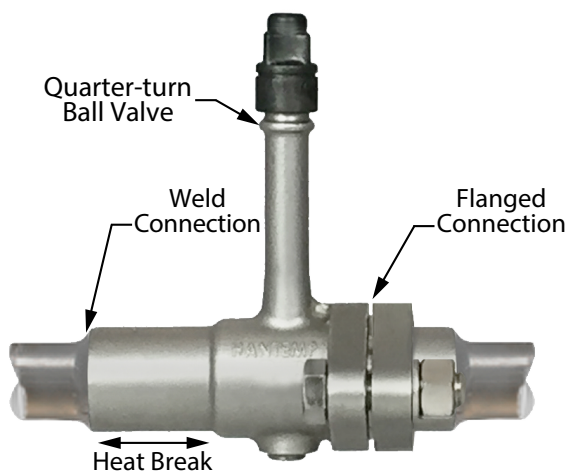
Body: Stainless Steel

Internal Parts: Stainless Steel

Safe Working Pressure: 800 psig

Operating Fluid Temperature: -70°F to +240°F

Approved Refrigerants Include: Ammonia, Glycols, Water, and other approved refrigerants



Stainless Steel QSV 1" SW w/ Flange

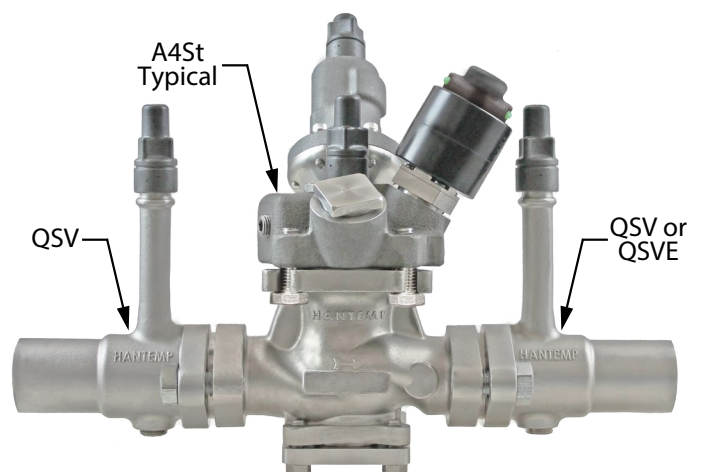
U.S. Patent # 9,518,665

Made in
U.S.A.

iiar
International Institute of
Ammonia Refrigeration



**QSV QUARTER-TURN
SERVICE VALVE**
Shut-Off or Expansion Valves
3/4", 1", and 1 1/4" (2-Bolt; Size 100)
1 1/2", 2", and 2 1/2" (4-Bolt; Size 200)
STAINLESS STEEL



*Stainless Steel RR Flexible Station
Weldable Platform Assembly*

FEATURES:

- Valve open to close via 90° rotation of indicator
- Can be welded without being disassembled
- Spring loaded back seat for servicing stem seals
- Assembled RR station installs as a unit
- Can serve as a flanged union with shut-off
- Available stainless steel companion flange
- Expansion Valve Available (Model: QSVE)

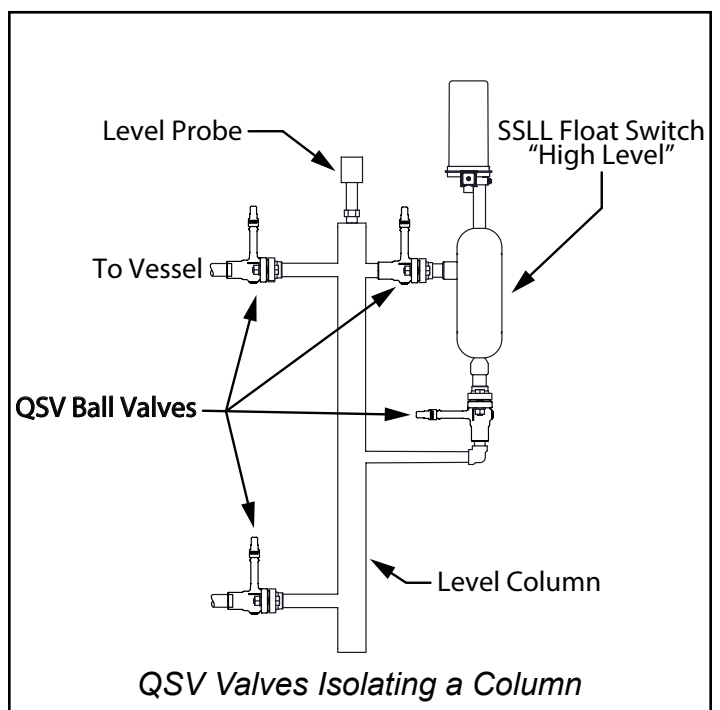
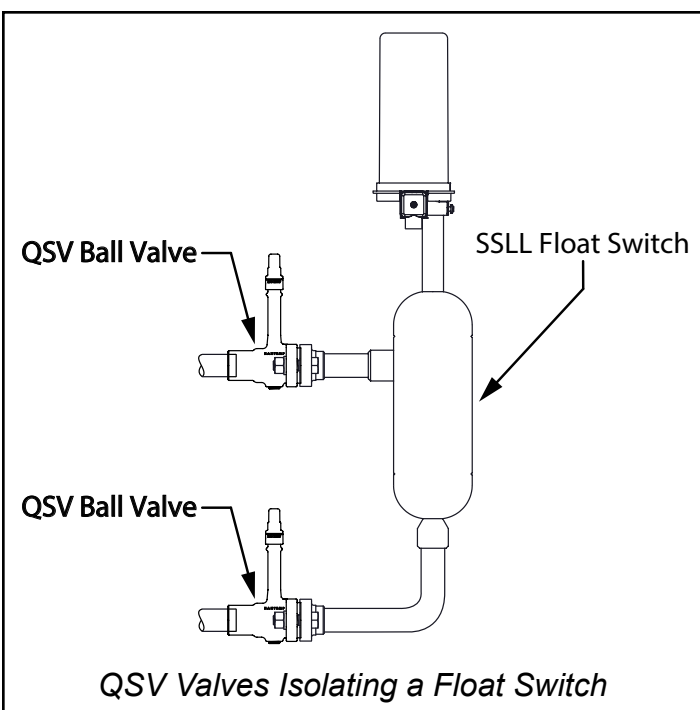
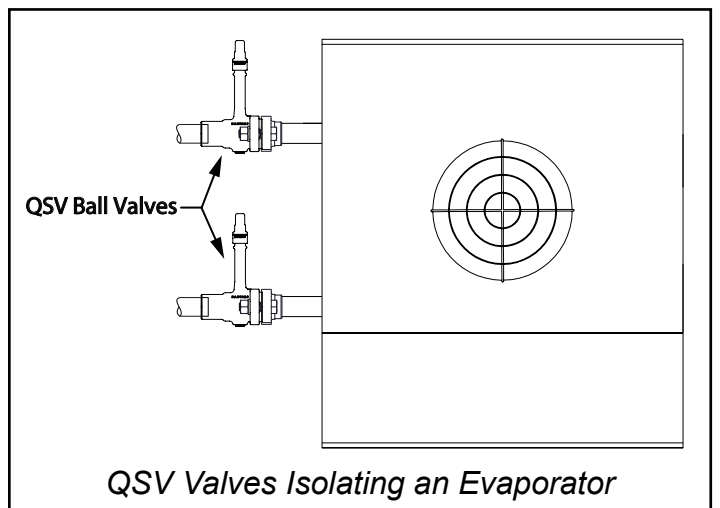
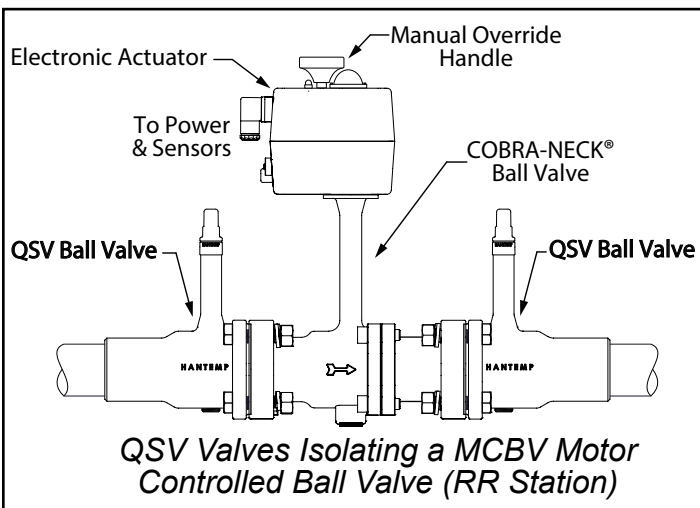
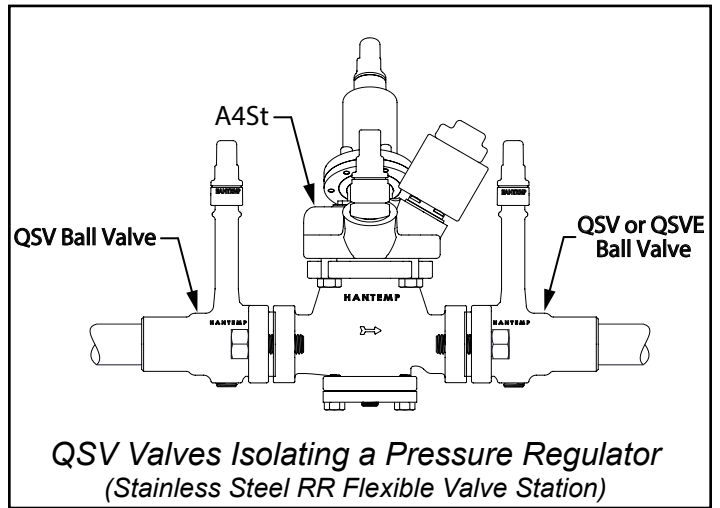
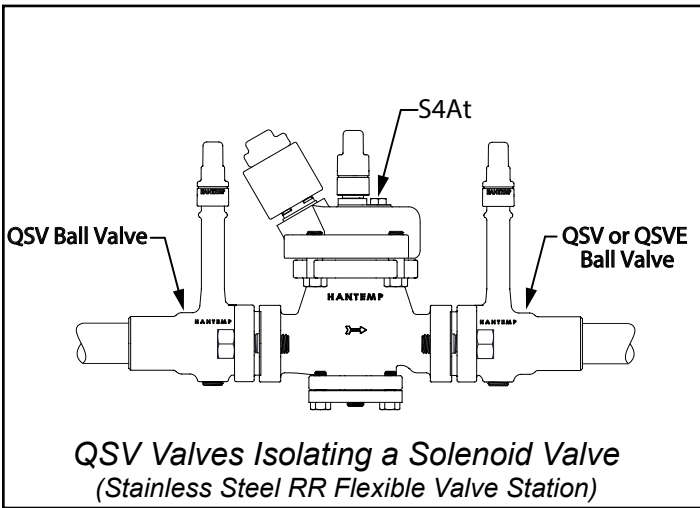


Full Port

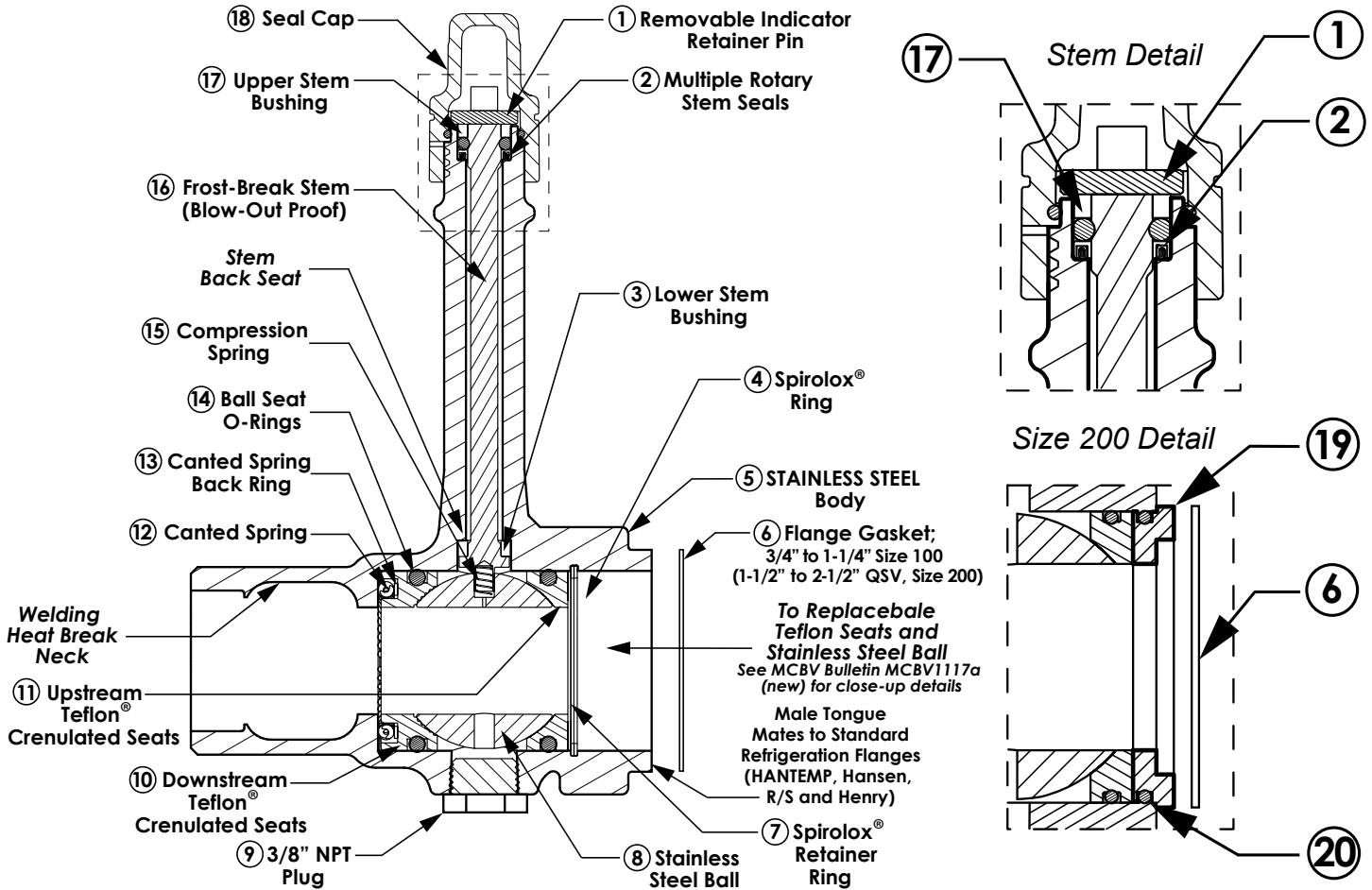


Liquid Expansion (QSVE)

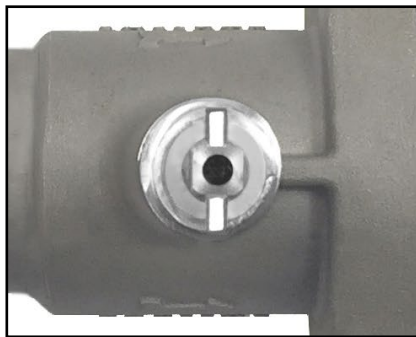
QSV VALVE APPLICATIONS



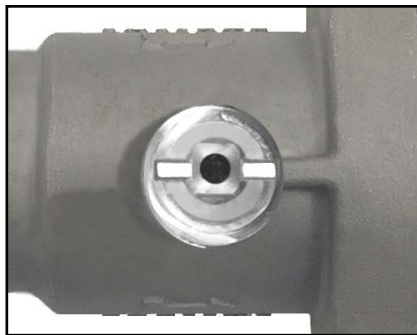
QUARTER-TURN SERVICE VALVE CROSS SECTION AND PARTS LIST



Quarter Turn Operation



Indicator - Valve Closed

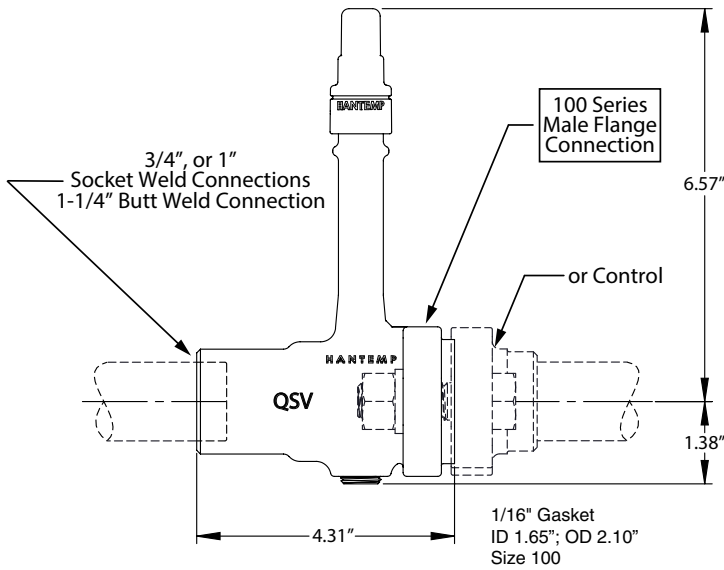


Indicator - Valve Open

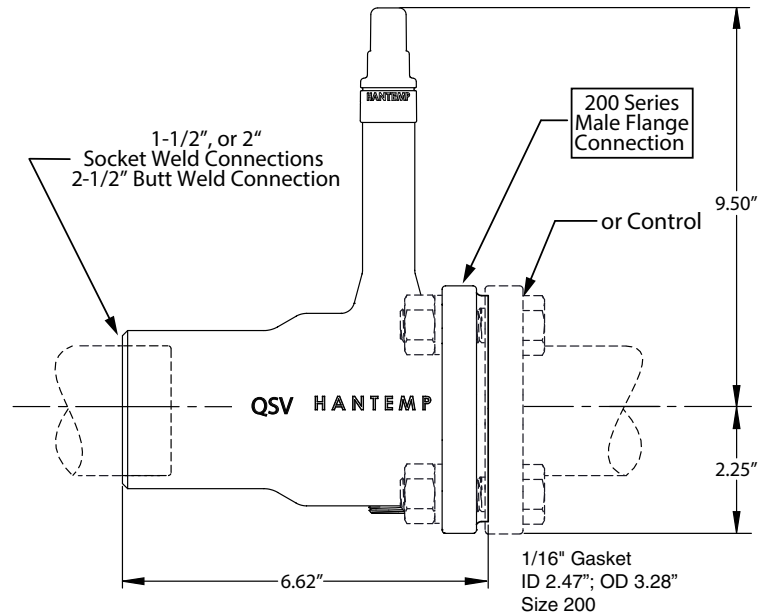
QSV Valve Parts List

Item	Qty.	Description	3/4", 1" & 1 1/4"	1 1/2", 2" & 2 1/2"
1	1	Removable Indicator Retainer Pin	26-0109	26-0109
2	1	Rotary Stem Seals (2)	26-0108	26-0108
3	1	Lower Stem Backseat Bushing	26-0105	26-0105
4	1	Spirolox® Ring	26-0103	26-0504
5	1	Valve Body	26-0450-1	26-0501-1
6	1	Flange Gasket	26-0039	26-0063
7	1	Spirolox® Ring	26-0114	N/A
8	1	Stainless Steel Ball	26-0003	26-0053
9	1	3/8" NPT Plug	26-0104	26-0104
10	1	Downstream Teflon® Spiral Seats	26-0008	26-0056
11	1	Upstream Teflon® Spiral Seats	26-0029	26-0055
12	1	Canted Spring	26-0025	26-0061
13	1	Canted Spring Back Ring	26-0009	26-0057
14	2	Ball Seat O-Rings	26-0021	26-0060
15	1	Stem Spring	26-0118	26-0118
16	1	Frost Break Stem (Blow-Out Proof)	26-0102	26-0102
17	1	Upper Stem Bushing	26-0105	26-0105
18	1	Seal Cap w/ O-Ring	26-0117	26-0117
19	1	Flange Insert	N/A	26-0125
20	1	Flange Insert O-Ring	N/A	26-0060
20	1	Stem Seal Kit - (includes 1-3, & 17)	26-0125	26-0125
21	1	Seat Kit - (includes 10-14)	26-0126	26-0127

INSTALLATION DIMENSIONS



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



1 1/2", 2", and 2 1/2" Pipe Sizes

APPLICATIONS

Service (Shut-off) valve for flanged control valve or other applications. Liquid expansion (model: QSVE).

SIZING

Quarter-Turn Service Valve size is generally same as pipe size. The QSV Quarter-Turn Service Valve is available in 3/4" - 2 1/2" pipe connections.

ORDERING INFO

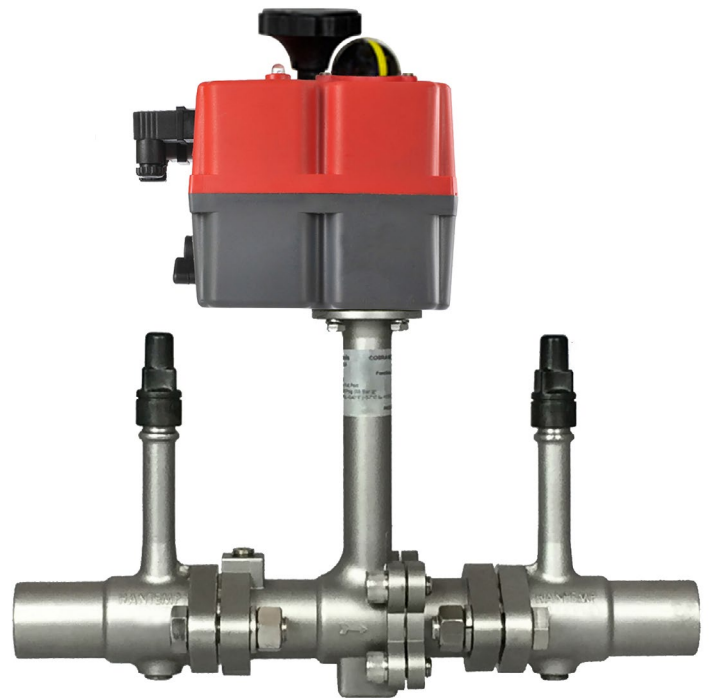
Specify size and connection type (socket or butt weld). Separate optional companion flange with stainless steel nuts & bolts and a gasket available. For **expansion QSVE**, provide tons and system details.

PRECAUTIONS

The valves should only be installed, maintained, and serviced by qualified and experienced refrigeration professionals. Before servicing a valve, it should be isolated from the system and all refrigerant evacuated from the piping. Eyes and lungs are at high risk. Use safety glasses.

The protective packaging should not be removed until ready for installation to avoid jobsite dirt or damage. Prior to & during welding process, keep dirt from entering the valve.

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.



*1" QSV Valves Isolating a Stainless Steel
MCBV Motor Controlled Ball Valve*

HANTEMP Controls

33 Chestnut Avenue, Westmont, IL, USA

(630) 537-1049

www.hantempcontrols.com

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