

FBCV-OR Series

Sanitary Control Valves- OR Version

The FBCV O-Ring Series Control Valve is designed to meet the rigid specifications for sanitary process control valves for customers who prefer an O-ring style stem seal. This valve series is suitable for a wide variety of applications in the cosmetic, dairy and food and beverage industries.

Conforming to 3A guidelines, the FBCV is ideally suited for a wide range of flowing media in both the utility and process areas of sanitary systems.

High rangeability, characterized trim, high capacities, superior temperature and pressure ratings along with a selection of sealing methods make the FBCV the sanitary control valve for liquid, gas and steam services.

Whether the need is to control pressure, temperature, flow, pH, or another variable, the FBCV is the right valve for your process.

FEATURES

- Self-draining - Angle Body: when mounted in vertical (all sizes) or horizontal orientations
- Mechanically polished internal components - 32Ra finish - standard
- Maintenance-friendly - easy to perform sanitary maintenance with simple disassembly and reassembly
- Steel, baked corrosion resistant coated multi-spring actuators to meet a wide range of differential pressure requirements while providing excellent corrosion resistance during washdown

*CRN Registration Number Available



4" FBCV-OR

AVAILABLE FINISHES

Body

- *Standard:* 32 Ra (0.8 Ra μ m) mechanical finish on internal wetted surfaces; as cast external

Stem

- *Standard:* 32 Ra (0.8 Ra μ m) mechanical finish

APPLICATIONS

A wide variety of applications exist for the FBCV in the health care and food & beverage and other industries including:

Processes

- Fermenter
- SIP/CIP Systems
- Extrusion
- Pasteurizers

Media

- Caustic
- Acids
- Buffer
- Clean Steam

SPECIFICATIONS – O-RING STEM SEAL

Sizes: 1/2" (DN15) through 4" (DN100)

Body/Bonnet Connection: sanitary clamp

Body/Bonnet Seal

- FDA EPDM
- FDA Viton
- FDA Silicon, Kalrez, Fluoraz
- Buna-N

Body Material: ASTM A351 CF3M 316L

Stem Material: ASTM A479 316L SST Barstock

Bonnet Material: ASTM A479 316L SST Barstock

Stem Seal for 3A Valves

- FDA EPDM – to 120°F (+48°C)
- FDA Silicon – to +250°F (+121°C)*
- FDA Viton® – to +250°F (+121°C)*
- FDA Buna-N – to +225°F (+107°C)

*While rated to exceed normal Clean Steam operating temperatures, Steriflow Food and Beverage does not recommend the use of non-encapsulated Viton, or Silicon for continuous clean steam service. Contact the factory if questions.

Stem Bushing: FDA PEEK (no process contact)

Actuators

Pneumatic

- 1" (DN25); 35M & 55M: Steel, baked corrosion resistant coating
- 1-1/2" (DN40); 55M & 85M: Steel, baked corrosion resistant coating; 3" (DN80); 85M: Steel
- 3"(DN80) and 4"(DN100): Barstock Aluminum 745M

Soft Seat Option (Cv ≥ 3.5 only) (Not 3A Approved)

- PTFE FDA to 252°F (122°C) continuous or 275°F (135°C) in intermittent (less than 15 min over 1 hr.
- PEEK FDA to 350°F (177°C)

Electric

- 1/2" – 3" (DN15 – DN80)
CML100 Cv 0.2 – 5.0 (Kv 0,17 – 4,3)
CML250 All other Cv's

Shutoff

- Standard: ANSI Class III with metal seat
 - Optional: ANSI Class VI with soft seat (Cv ≥ 3.5 only)
- Ranges:** 3-15, 6-30, 3-9*, 9-15*, 18-48*, 3-35*, 18-70* or 3-56* psi (0,2-1,0; 0,4-2,0; 0,2-0,6; 0,6-1,0; 1,2-3,3; 0,2-2,4; 1,2-4,8 or 0,2-3,9 bar)

(* positioner required)

Maximum Pressure @ 100°F (38°C): 450 PSI (31 bar) for 0.5"-3". 250 PSI (17 bar) for 4

Flow Characteristics: Linear, equal percentage, or quick opening (consult factory for quick opening Cv's)

Pressure @ Maximum Temperature

- 300 psi (0.5"-1"), 200 psi (1.5"-2"), 150 psi (3"-4") up to +250°F (121°C), temperature dependent upon stem seal o-ring material.

Cv (Kv) Ratings

Cv (Kv) Ratings		
Size	Linear	Equal Percentage
1/2"	0.2, 0.5, 1 (0,17 / 0,43 / 0,87)	
3/4"	1, 2, 3.5, 5 (0,87 / 1,73 / 3,03 / 4,33)	
1"	3.5 / 5.0 (3,01 / 4,30)	
	7.5 / 15.0 (6,45 / 12,90)	
1-1/2"	5.0 / 15 / 30 (4,3 / 12,9 / 25,0)	
2"	10 / 15 / 20 / 30 (8,6 / 12,9 / 17,20 / 25,80)	
	40 / 60 (34,40 / 51,60)	40 (34,40 / 60)
3"	70/130 (61/112)	70/85/120 (61,74,104)
4"	165/200 (142,172)	N/A

MAXIMUM Δ Ratings, PSI (BAR)

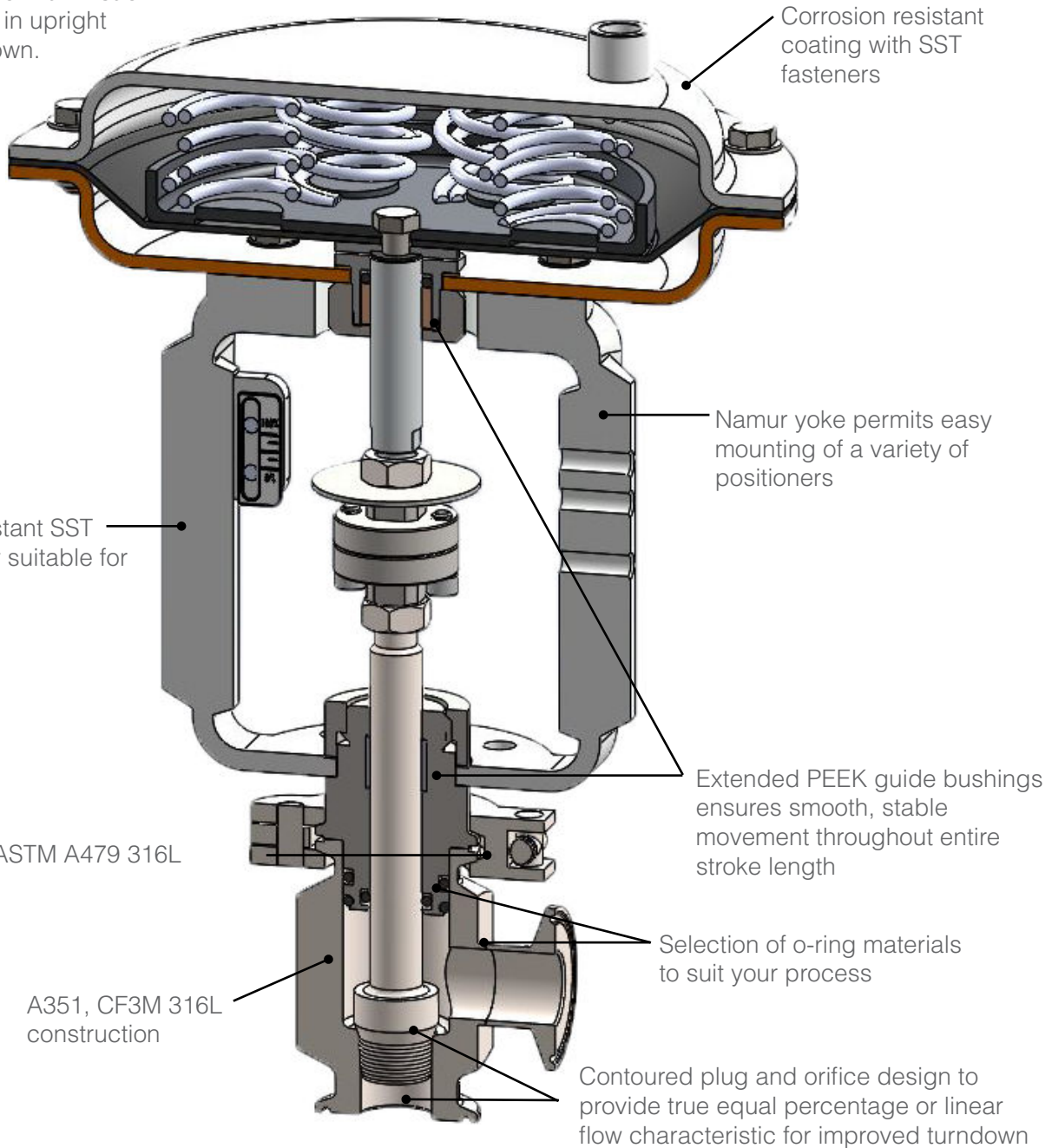
Valve Size	Valve Cv	Actuator Size	ATO 3-15	ATO 6-30 or with positioner @ 40 psi	ATC 3-15 or with positioner @ 20 psi	ATC 6-30 @ 40 psi	ATO 18-48 or with positioner @ 60 psi	ATC 3-35 or with positioner @ 60 psi	ATO 18-70 or with positioner @ 75 psi	ATC 3-56 or with positioner @ 75 psi
1/2"	0.2 / 0.5 / 1	35M	150 (10,3)	216 (14,9)	150 (10,3)	450 (31)	N/A	N/A	N/A	N/A
3/4"	1 / 2 / 3.5 / 5	55M	316 (21,8)	416 (28,7)	316 (21,8)	450 (31)	N/A	N/A	N/A	N/A
1"	3.5 / 5.0	35M	150 (10,3)	216 (14,9)	150 (10,3)	450 (31)	N/A	N/A	N/A	N/A
1"	3.5 / 5.0	55M	316 (21,8)	416 (28,7)	316 (21,8)	450 (31)	N/A	N/A	N/A	N/A
1"	7.5 / 15	35M	75 (5,2)	120 (8,3)	75 (5,2)	300 (20,7)	N/A	N/A	N/A	N/A
1"	7.5 / 15	55M	188 (13,0)	256 (17,7)	188 (13,0)	450 (31)	N/A	N/A	N/A	N/A
1-1/2"	5 / 15 / 30	55M	86 (5,9)	126 (8,7)	86 (5,9)	288 (19,9)	N/A	N/A	N/A	N/A
1-1/2"	5 / 15 / 30	85M	220 (15,2)	288 (19,9)	220 (15,2)	450 (31)	N/A	N/A	N/A	N/A
2"	10/15/20/30/40/60	55M	15 (1,0)	34 (2,3)	15 (1,0)	111 (7,7)	N/A	N/A	N/A	N/A
2"	10/15/20/30/40/60	85M	79 (5,4)	111 (7,7)	79 (5,4)	238 (16,4)	N/A	N/A	N/A	N/A
3"	70/85/120	85M	N/A	100 (6,9)	100 (6,9)	100 (6,9)	N/A	N/A	N/A	N/A
3"	70/130	85M	N/A	100 (6,9)	100 (6,9)	100 (6,9)	N/A	N/A	N/A	N/A
3"	70/85/120/130	745M	N/A	N/A	N/A	N/A	120 (8,3)	150 (10,3)	N/A	N/A
4"	165/200	745M	N/A	N/A	N/A	N/A	N/A	N/A	50 (3,4)	50 (3,4)

Note: for pressure drop capabilities of electric actuators, please consult factory

Note: 1/2" – 3" with positioner ATO actuator is bench set @ 6-30 psi/ ATC actuator is bench set @ 3-15 psi

O-RING STEM SEAL (ANGLE STYLE (1"))

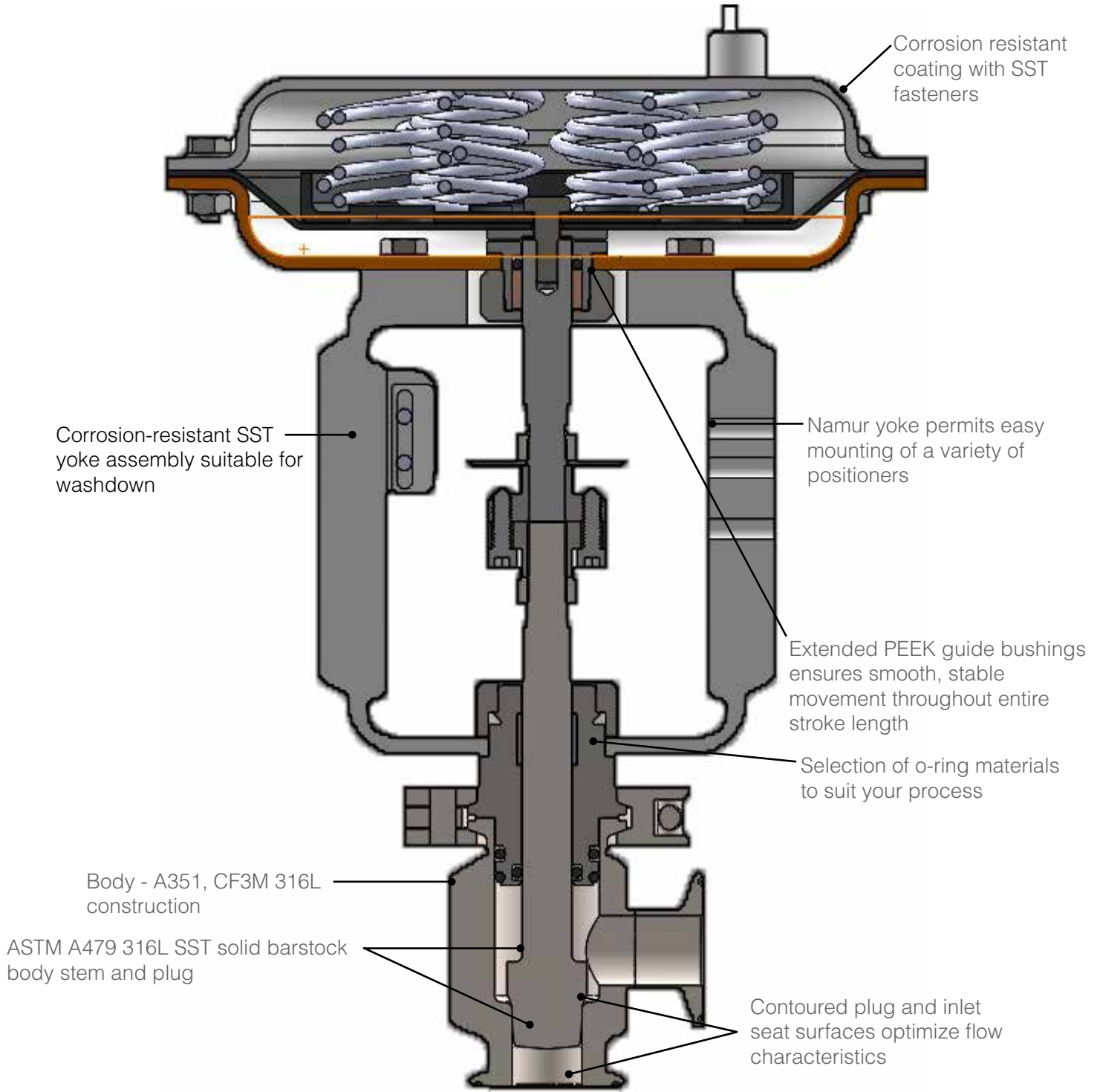
NEW Bi-direction flow capability. Valve can be installed with inlet on side or bottom. Self draining when valve is installed with inlet on side and valve in upright position as shown.



SPECIFICATION

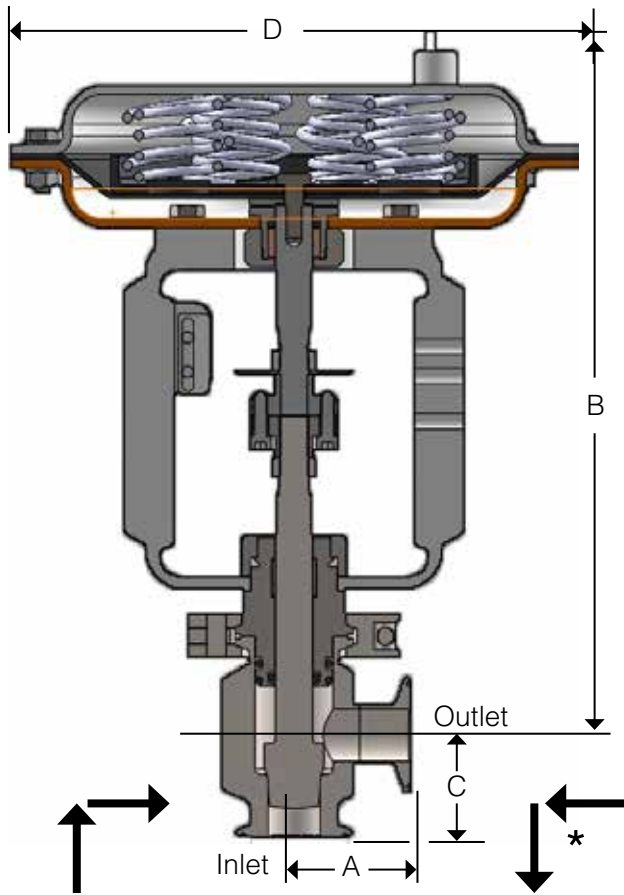
Stainless steel sanitary control valve offers a cast ASTM A351, CF3M, 316L body with ASTM A479 316L barstock material, for all wetted metal parts. The valve stem shall be supported by a one piece, SS NAMUR Yoke with two extended PEEK™ Guide bushings to provide structural rigidity and true guiding in any installation orientation. Guiding of valve stem/plug shall be outside of the wetted process areas of valve above stem o-ring. Control valve shall have extended guide bushing to provide additional support for multiple installation orientations. Valve shall be self draining in at least one orientation.

O-RING STEM SEAL (1-1/2" – 3")



Stainless Steel sanitary control valve offers a cast ASTM A351, CF3M, 316L body with ASTM A479 barstock material for all wetted parts. Valve stem sealed by FDA approved material o-ring. Guiding of valve stem/plug shall be outside of the wetted process areas of the valve above the o-ring. The control valve shall be free of threads within the wetted process area. Valve shall have one piece SS Namur Yoke enabling Namur positioner bracketing and providing stem stabilization for Horizontal mounting. Valve is self draining in any orientation.

DIMENSIONS



INCHES

Valve Size	Dimensions				Weight Lbs
	A	B	C	D	
1/2"	1.95	11.80	1.70	9.50 (35M)	27 (35M)
				12.50 (55M)	42 (55M)
3/4"	1.95	11.80	1.70	9.50 (35M)	27 (35M)
				12.50 (55M)	42 (55M)
1"	1.95	11.80	1.70	9.50 (35M)	27 (35M)
				12.50 (55M)	42 (55M)

METRIC

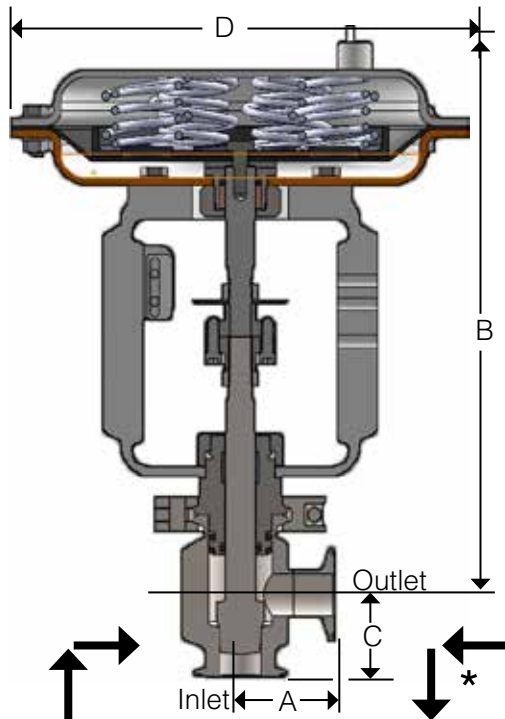
Valve Size	Dimensions				Weight Kgs
	A	B	C	D	
DN15	53	303	49	241 (35M)	12 (35M)
				318 (55M)	19 (55M)
DN20	53	303	49	241 (35M)	12 (35M)
				318 (55M)	19 (55M)
DN25	53	303	49	241 (35M)	12 (35M)
				318 (55M)	19 (55M)

Based on US tri-clamp ends. Consult factory for DIN and ISO tri-clamp end dimensions

Installation and Drainability:

- Valve is bi-directional, flow can enter either connection
- When valve is open, there is no hold up volume
- * For gravity drainage from inlet to outlet, install as shown above.

DIMENSIONS



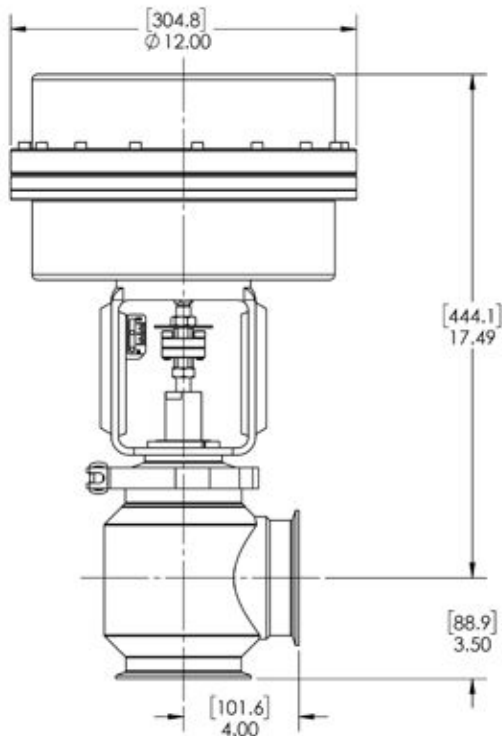
INCHES

Valve Size	Dimensions				Weight Lbs
	A	B	C	D	
1-1/2"	3.08	11.05	2.70	12.50 (55M)	47 (35M)
				15.00 (85M)	57 (55M)
2"	3.08	11.05	2.70	12.50 (55M)	47 (55M)
				15.00 (85M)	57 (85M)
3"	3.15	15.00	3.00	15.00 (85M)	60 (85M)
3"	3.15	16.80	3.00	12.00 (745M)	65 (745M)

METRIC

Valve Size	Dimensions				Weight Kgs
	A	B	C	D	
DN40	78	381	67	318 (55M)	21 (35M)
				381 (85M)	26 (55M)
DN50	78	381	67	318 (55M)	21 (55M)
				381 (85M)	26 (85M)
DN80	80	381	76	381 (85M)	27 (85M)
DN80	80	427	76	305 (745M)	29 (745M)

Based on US tri-clamp ends. Consult factory for DIN and ISO tri-clamp end dimensions



INCHES

Valve Size	Dimensions				Weight Lbs
	A	B	C	D	
4"	4.00	17.49	3.50	12.00 (745M)	71 (745M)

METRIC

Valve Size	Dimensions				Weight Kgs
	A	B	C	D	
DN100	102	444	89	305 (745M)	32 (745M)

Based on US tri-clamp ends. Consult factory for DIN and ISO tri-clamp end dimensions

Installation and Drainability:

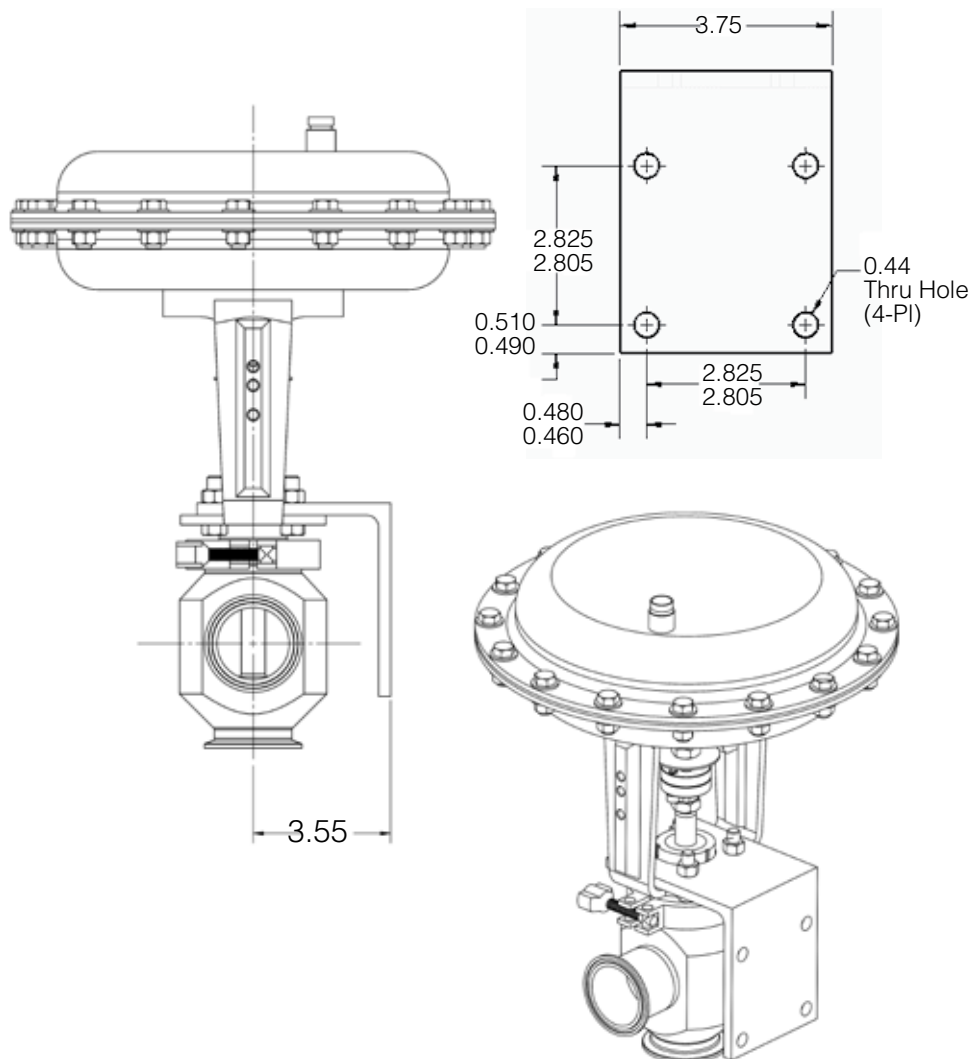
- Valve has no hold-up when installed as shown above, but must be drained below inlet.
- Valve will gravity drain from inlet to outlet when installed with inlet horizontal (outlet facing down)

NEW FBCV-OR CONTROL VALVE OPTION: MOUNTING BRACKET

We now have a Stainless Steel Bracket Kit for all of our 1/2" – 3" FBCV-OR angle style, and 1" Inline style Control Valves.

- The bracket (shown to the right) mounts to the base of the Namur Yoke and provides exceptional support for mounting to a 2" pipe stand (Hardware included), wall or panel.
- **Specifications:**
 - **Materials:**
 - Bracket, HHCS: 316SS
 - Ubolts, Nut (for mounting to pipe stand): 304SS
 - Washers: 18/8 SS
 - **Surface Finish:**
 - 316SS Angle Standard Material Finish
- See the bottom of the FBCV-OR pricing pages in the Steriflow F&B Valve Price List for Kit FBCV-OR-BRKT-KIT Pricing.

Kit Model Number: FBCV-OR-BRKT-KIT



ORDERING SCHEMATIC- FBCV-OR 1/2" & 3/4"

Model	Size	Body Material	1, 2, 3, 4, 5, 6	7 & 8	9 & 10	11 & 12	13 & 14	15

FBCV	Model
SP	Side Mounted Positioner (3A)
HT	Side Mounted Positioner High Temp (not 3A)

	Size
050	1/2"
075	3/4"

	Stem Seal
OR	O-Ring Seal

1 2,3,4,5,6	1/2" Tri-C Body, Cv, Char., Finish
AALN1A	1/2" LIN Cv 0.2 32Ra Int./Cast Ext.
AAEPA1	1/2" EQP Cv 0.2 32Ra Int./Cast Ext.
AALN2A	1/2" LIN Cv 0.5 32Ra Int./Cast Ext.
AAEPA2	1/2" EQP Cv 0.5 32Ra Int./Cast Ext.
AALN3A	1/2" LIN Cv 1.0 32Ra Int./Cast Ext.
AAEPA3	1/2" EQP Cv 1.0 32Ra Int./Cast Ext.
ZZZZZZ	Non-Standard

1 2,3,4,5,6	3/4" Tri-C Body, Cv, Char., Finish
BALN1A	3/4" LIN Cv 1.0 32Ra Int./Cast Ext.
BAEPA1	3/4" EQP Cv 1.0 32Ra Int./Cast Ext.
BALN2A	3/4" LIN Cv 2.0 32Ra Int./Cast Ext.
BAEPA2	3/4" EQP Cv 2.0 32Ra Int./Cast Ext.
CALN3A	3/4" LIN Cv 3.5 32Ra Int./Cast Ext.
CAEPA3	3/4" EQP Cv 3.5 32Ra Int./Cast Ext.
CALN4A	3/4" LIN Cv 5.0 32Ra Int./Cast Ext.
CAEPA4	3/4" EQP Cv 5.0 32Ra Int./Cast Ext.
ZZZZZZ	Non-Standard

7 & 8	Stem Seal
	O-Ring Seal
EP	EPDM/FDA/USP CL6/3A
VI	Viton/FDA/USP CL6/3A
BN	Buna-N/FDA
SI	Silicone/FDA
ZZ	Non-Standard

9 & 10	Actuator/Range
3D	35M ALL DIR STL/PAINTED
3R	35M ALL REV STL/PAINTED
5D	55M ALL DIR STL/PAINTED
5R	55M ALL REV STL/PAINTED
ZZ	Non-Standard

11 & 12	Action
DD	Direct
RR	Reverse
ZZ	Non-Standard

13 & 14	Accessories
00	None
1A	I/P Trans. 4-20M/3-15P
2A	Air Reg. w/ Gage
3A	I/P Trans 4-20M/6-30P
ZZ	Non-Standard

15	SMP
0	None
A	SMP DIR/REV 3-15
B	SMP DIR/REV 3-9
C	SMP DIR/REV 9-15
D	SMP/IP DIR/REV 4-20
E	SMP/IP DIR/REV 4-12
F	SMP/IP DIR/REV 12-20
G	MK16IQ DIR/REV
H	MK16IQ-B DIR/REV
J	MK16IQ-FF DIR/REV
Z	Non-Standard

ORDERING SCHEMATIC- FBCV-OR 1"

Model	Size	Body Material	1, 2, 3, 4, 5, 6	7 & 8	9 & 10	11 & 12	13 & 14	15

FBCV	Model
SP	Side Mounted Positioner
HT	Side Mounted Positioner High Temp (not 3A)

	Size
100	1"

	Stem Seal / Seat
OR	O-Ring Seal (3A)
ORP	O-ring/PEEK (Cv > 3.5 only) (not 3A)
ORT	O-ring/Teflon (Cv > 3.5 only) (not 3A)

1 2,3,4,5,6	1" Tri-C Body, Cv, Char., Finish
DALN1A	1" LIN Cv 3.5 32Ra Int./Cast Ext. (Std)
DAEPA1	1" EQP Cv 3.5 32Ra Int./Cast Ext. (Std)
DALN2A	1" LIN Cv 5.0 32Ra Int./Cast Ext. (Std)
DAEPA2	1" EQP Cv 5.0 32Ra Int./Cast Ext. (Std)
EALN3A	1" LIN Cv 7.5 32Ra Int./Cast Ext. (Std)
EAEP3A	1" EQP Cv 7.5 32Ra Int./Cast Ext. (Std)
EALN4A	1" LIN Cv 15 32Ra Int./Cast Ext. (Std)
EAEP4A	1" EQP Cv 15 32Ra Int./Cast Ext. (Std)
ZZZZZZ	Non-Standard

7 & 8	Stem Seal
	O-Ring Seal
EP	EPDM/FDA/USP CL6/3A 0010
VI	Viton/FDA/USP CL6/3A 0020
BN	Buna-N/FDA 0030
SI	Silicone/FDA 0050

9 & 10	Actuator/Range
3D	35M ALL DIR STL/PAINTED
3R	35M ALL REV STL/PAINTED
5D	55M ALL DIR STL/PAINTED
5R	55M ALL REV STL/PAINTED

11 & 12	Action
DD	Direct
RR	Reverse
ZZ	Non-Standard

13 & 14	Accessories
00	None
1A	I/P Trans. 4-20M/3-15P
2A	Air Reg. w/ Gage
3A	I/P Trans 4-20M/6-30P
ZZ	Non-Standard

15	SMP
0	None
A	SMP DIR/REV 3-15
B	SMP DIR/REV 3-9
C	SMP DIR/REV 9-15
D	SMP/IP DIR/REV 4-20
E	SMP/IP DIR/REV 4-12
F	SMP/IP DIR/REV 12-20
G	MK16IQ DIR/REV
H	MK16IQ-B DIR/REV
J	MK16IQ-FF DIR/REV
Z	Non-Standard

ORDERING SCHEMATIC - FBCV-OR 1 1/2" & 2"

Model	Size	Body Material	1, 2, 3, 4, 5, 6	7 & 8	9 & 10	11 & 12	13 & 14	15

FBCV	Model
SP	Side Mounted Positioner (3A)
HT	Side Mounted Positioner High Temp (not 3A)

	Size
150	1 1/2"
200	2"

	Stem Seal / Seat
OR	O-Ring Seal (3A)
ORP	O-ring/PEEK (Cv > 3.5 only) (not 3A)
ORT	O-ring/Teflon (Cv > 3.5 only) (not 3A)

1 2,3,4,5,6	1-1/2" Tri-C Body, Cv, Char., Finish
FALN1A	1-1/2" LIN Cv 5 32Ra Int./Cast Ext. (Std)
FAEPA1	1-1/2" EQP Cv 5 32Ra Int./Cast Ext. (Std)
FALN3A	1-1/2" LIN Cv 15 32Ra Int./Cast Ext. (Std)
FAEPA3	1-1/2" EQP Cv 15 32Ra Int./Cast Ext. (Std)
GALN5A	1-1/2" LIN Cv 30 32Ra Int./Cast Ext. (Std)
GAEPA5	1-1/2" EQP Cv 30 32Ra Int./Cast Ext.(Std)
ZZZZZZ	Non-Standard

1 2,3,4,5,6	2" Tri-C Body, Cv, Char., Finish
HALN1A	2" LIN Cv 10 32Ra Int./Cast Ext. (Std)
HAEPA1	2" EQP Cv 10 32Ra Int./Cast Ext. (Std)
HALN2A	2" LIN Cv 15 32Ra Int./Cast Ext. (Std)
HAEPA2	2" EQP Cv 15 32Ra Int./Cast Ext. (Std)
HALN3A	2" LIN Cv 20 32Ra Int./Cast Ext. (Std)
HAEPA3	2" EQP Cv 20 32Ra Int./Cast Ext. (Std)
HALN4A	2" LIN Cv 30 32Ra Int./Cast Ext. (Std)
HAEPA4	2" EQP Cv 30 32Ra Int./Cast Ext. (Std)
IALN5A	2" LIN Cv40 32Ra Int./Cast Ext. (Std)
IAEPA5	2" EQP Cv40 32Ra Int./Cast Ext.(Std)
IALN6A	2" LIN Cv60 32Ra Int./Cast Ext. (Std)
JAML7A	2" MOD LIN Cv70 32Ra Int./Cast Ext.(Std)
ZZZZZZ	Non-Standard

7 & 8	Stem Seal
	O-Ring Seal
EP	EPDM/FDA/USP CL6/3A
VI	Viton/FDA/USP CL6/3A
BN	Buna-N/FDA
SI	Silicone/FDA

9 & 10	Actuator/Range
5D	55M ALL DIR STL/PAINTED
5R	55M ALL REV STL/PAINTED
8D	85M ALL DIR STL/PAINTED
8R	85M ALL REV STL/PAINTED

11 & 12	Action
DD	Direct
RR	Reverse
ZZ	Non-Standard

13 & 14	Accessories
00	None
1A	I/P Trans. 4-20M/3-15P
2A	Air Reg. w/ Gage
3A	I/P Trans 4-20M/6-30P
ZZ	Non-Standard

15	SMP
0	None
A	SMP DIR/REV 3-15
B	SMP DIR/REV 3-9
C	SMP DIR/REV 9-15
D	SMP/IP DIR/REV 4-20
E	SMP/IP DIR/REV 4-12
F	SMP/IP DIR/REV 12-20
G	MK16IQ DIR/REV
H	MK16IQ-B DIR/REV
J	MK16IQ-FF DIR/REV
Z	Non-Standard

ORDERING SCHEMATIC - FBCV-OR 3"

Model	Size	Body Material	/	1, 2, 3, 4, 5, 6	7 & 8	9 & 10	11 & 12	13 & 14	15

FBCV	Model
SP	Side Mounted Positioner (3A)
HT	Side Mounted Positioner High Temp (not 3A)

	Size
300	3"

	Stem Seal / Seat
OR	O-Ring Seal (3A)
ORP	O-ring/PEEK (Cv > 3.5 only) (not 3A)
ORT	O-ring/Teflon (Cv > 3.5 only) (not 3A)

1 2,3,4,5,6	3" Tri-C Body, Cv, Char., Finish
JALN1A	3" LIN Cv 70 32Ra Int./Cast Ext. (Std)
JAEP1A	3" EQP Cv 70 32Ra Int./Cast Ext. (Std)
JALN2A	3" LIN Cv 85 32Ra Int./Cast Ext. (Std)
JAEP2A	3" EQP Cv 85 32Ra Int./Cast Ext. (Std)
JAEP3A	3" EQP Cv 100 32Ra Int./Cast Ext. (Std)
JALN4A	3" LIN Cv 136 32Ra Int./Cast Ext. (Std)
ZZZZZZ	Non-Standard

7 & 8	Stem Seal
EP	EPDM/FDA/USP CL6
VI	Viton/FDA/USP CL6
BN	Buna-N/FDA
SI	Silicone-FDA/USP CL6
ZZ	Non-Standard

9 & 10	Actuator/Range
8D	85M ALL DIR STL/PAINTED
8R	85M ALL REV STL/PAINTED
BD	745M ALL DIR ALUM/PAINTED
BR	745M ALL REV ALUM/PAINTED
ZZ	Non-Standard

11 & 12	Action
DD	Direct
RR	Reverse
ZZ	Non-Standard

13 & 14	Accessories
00	None
1A	I/P Trans. 4-20M/3-15P
2A	Air Reg. w/ Gage
3A	I/P Trans 4-20M/6-30P
ZZ	Non-Standard

15	SMP
0	None
A	SMP DIR/REV 3-15
B	SMP DIR/REV 3-9
C	SMP DIR/REV 9-15
D	SMP/IP DIR/REV 4-20
E	SMP/IP DIR/REV 4-12
F	SMP/IP DIR/REV 12-20
G	MK16IQ DIR/REV
H	MK16IQ-B DIR/REV
J	MK16IQ-FF DIR/REV
Z	Non-Standard

FBCV-OR SANITARY GLOBE-STYLE CONTROL VALVES - O-RING STEM SEAL

ORDERING SCHEMATIC - FBCV-OR 4"

Model	Size	Body Material	/	1, 2, 3, 4, 5, 6	7 & 8	9 & 10	11 & 12	13 & 14	15

FBCV	Model
SP	Side Mounted Positioner (3A)
HT	Side Mounted Positioner High Temp (not 3A)

	Size
400	4"

	Stem Seal
OR	O-Ring Seal

1 2,3,4,5,6	4" Tri-C Body, Cv, Char., Finish
KALN1A	4" LIN Cv 165 32Ra Wt./Cast Ext. (Std)
KALN2A	4" LIN Cv 200 32Ra Wt./Cast Ext. (Std)
ZZZZZZ	Non-Standard

7 & 8	Stem Seal
EP	EPDM/FDA/USP CL6
VI	Viton/FDA/USP CL6
BN	Buna - N/FDA
SI	Silicone - FDA/USP CL6
ZZ	Non-Standard

9 & 10	Actuator/Range
RM	745M ALL REV Aluminum/Painted
DM	745M ALL DIR Aluminum/Painted
ZZ	Non-Standard

11 & 12	Action
DD	Direct
RR	Reverse
ZZ	Non-Standard

13 & 14	Accessories
00	None
1A	I/P Trans. 4-20M/3-15P
2A	Air Reg. w/ Gage
3A	I/P Trans 4-20M/6-30P
ZZ	Non-Standard

15	SMP
0	None
A	SMP DIR/REV 3-15
B	SMP DIR/REV 3-9
C	SMP DIR/REV 9-15
D	SMP/IP DIR/REV 4-20
E	SMP/IP DIR/REV 4-12
F	SMP/IP DIR/REV 12-20
G	MK16IQ DIR/REV
H	MK16IQ-B DIR/REV
J	MK16IQ-FF DIR/REV
Z	Non-Standard

DOCUMENTATION

A Certificate of Compliance is available at no charge when requested at time of order. The "Unicert" is a chargeable document. If needed, a "Unicert" must be requested at time of order.



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