

Sterivalve

APPLIES TO : Steridose Sterivalve® valve housings, diaphragms and actuators

STERIVALVE TECHNICAL SPECIFICATIONS

Design and materials in accordance with industry requirements (i.e. FDA, ASME BPE, GMP)

- Full traceability of process-contact components (EN 10204 3.1 certificates included)
- All process-contact stainless steel parts in AISI 316L (EN 1.4404), other alloys on request
- Surface finish better than Ra 0.38 µm (15 µin), electropolished on request

TANK BOTTOM OUTLET VALVES ASTM

Type ^a	BOV single 45°	BOV double 45°	BOV ##+12 CIP	BOV +12 satellite
				
Size				
ASTM 12 - 1/2"	BW ^b : 109375 BW45: 107192 TC45: 107322	BW: 107185 BW45: 107177 TC45: 107179	n/a	n/a
ASTM 25 - 1"	BW: 108656 BW45: 107223 TC45: 107225	BW: 107217 BW45: 107209 TC45: 107211	n/a	TC45: 108411 TC90: 107351
ASTM 38 - 1 1/2"	BW: 107257 BW45: 107249 TC45: 107251	BW: 107243 BW45: 107235 TC45: 107237	TC45: 107327	TC45: 109832
ASTM 51 - 2"	BW: 107285 BW45: 107277 TC45: 107279	BW: 107269 BW45: 107273 TC45: 107263	TC45 113194	n/a
ASTM 76 - 3"	BW: 108484 BW45: 107309 TC45: 107311	BW: 107299 BW45: 107291 TC45: 107293	TC45: 113196	n/a

^a Contact Steridose for non-standard configurations

^b BW = butt-weld, no elbows; BW45 = butt-weld 45°elbows; TC45 = Tri-clamp 45°elbows; TC90 = Tri-clamp 90°elbow(s)

OTHER VALVE TYPES

Type ^a	Shut-off 90°	Flow-through	Divert	Take-off/main
				
Size				
ASTM 12 - 1/2"	BW ^b : 108924 TC: 108928	BW: 108956 TC: 108960	BW: 109381	12/12: 110995 12/25: 110950 12/38: 110952 12/51: 110954
ASTM 25 - 1"	BW: 108932 TC: 108936	BW: 108964 TC: 108968	BW: 109387	25/38: 110958 25/51: 110960 25/76: 110962
ASTM 38 - 1 1/2"	BW: 108940 TC: 108893	BW: 108972 TC: 108976	BW: 109393	38TC/51BW: 111726
ASTM 51 - 2"	BW: 108944 TC: 108897	BW: 108980 TC: 108984	BW: 109399	n/a
ASTM 76 - 3"	BW: 108988 TC: 108952	BW: 108988 TC: 108992	BW: 109405	n/a

^a Contact Steridose for non-standard configurations

^b BW = butt-weld; TC = Tri-clamp

DIAPHRAGM TECHNICAL SPECIFICATIONS

Design data for Sterivalve

Sizes 12 (½"), 25 (1"), 38 (1½"), 51 (2"), 76 (3").

Diaphragm	Silicone	EPDM	PTFE
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Description	Platinum cured siloxane based polymer	Peroxide cured elastomer of monomers of ethylene and propylene and additional diene monomer	Ultra high density PTFE (TFM)
Maximum temperature	130°C (266°F)	140°C (284°F)	160°C (320°F)
Pressure range size 12, 25, 38	-1 - +7 bar g (-14.5 - +101.5 psig)	-1 - +7 bar g (-14.5 - +101.5 psig)	-1 - +7 bar g (-14.5 - +101.5 psig)
Pressure range size 51, 76	-1 - +5 bar g (-14.5 - +72.5 psig)	-1 - +5 bar g (-14.5 - +72.5 psig)	-1 - +5 bar g (-14.5 - +72.5 psig)
Pressure range at 121°C (250°F)	-1 - +3 bar g (-14.5 - +43.5 psig)	as above	as above
Autoclavable	Yes (manual actuators only)	Yes (manual actuators only)	Yes (manual actuators only)
pH range	3 - 11	3 - 11	3 - 11
Viscosity range	0 - 1000 cP	0 - 1000 cP	0 - 1000 cP
Other	Contains no animal-derived ingredients USP <88> Class VI According to FDA specification of approved material (FDA 21 § 177.2600)	Contains no animal-derived ingredients USP <88> Class VI According to FDA specification of approved material (FDA 21 § 177.2600)	Contains no animal-derived ingredients USP <88> Class VI According to FDA specification of approved material (FDA 21 § 177.2600)

Article numbers

Size	12 (½")	25 (1")	38 (1½")	51 (2")	76 (3")
Silicon	103476	103478	103480	111353	-
EPDM	111164	111165	111166	111351	-
PTFE	110646	105016	105651	127742	127743

ACTUATOR TECHNICAL SPECIFICATIONS

Actuator stainless steel parts AISI 304L or better. Manual actuators are autoclavable.

Article numbers

Type ^a	Manual	Manual with extended handle	Pneumatic spring close-air open	Pneumatic air close-air open
				
Size				[no image]
ASTM 12 - ½"	110008	n/a	110009	110087
ASTM 25 - 1"	110010	110260	110011	110207
ASTM 38 - 1½"	110012	106246	110013	110252
ASTM 51 - 2"	110232	n/a	110155	n/a
ASTM 76 - 3"	110243	n/a	110214	n/a

^a Contact Steridose for non-standard configurations

Pneumatic actuator automation options

Type ^a	Microswitch 1 position (open)	Microswitch 2 position (open-close)	Inductive 1 position (open)	Inductive 2 position (open-close)
Size ^b				
ASTM 12 - ½" 111408	110129	111469	108478	106147
ASTM 25 - 1" 111410	110129	111469	108478	106147
ASTM 38 - 1½" 111412	110129	111469	108478	106147
ASTM 51 - 2" 110155	n/a	n/a	130629	2 x 130629
ASTM 76 - 3" 110214	n/a	n/a	130629	2 x 130629

^a Contact Steridose for non-standard configurations

^b For actuators with sensors, use the part number in this column for ordering the actuator (spring close-air open)

Assembly

Actuators sizes 12 - ½", 25 - 1", 38 - 1½" are mounted on the valve housing by means of a TC-clamp.

Part number	Description	Fits actuators
110014	TC Clamp 1" - 1½" Light duty	Size 12 - ½"
110220	TC Clamp 1" - 1½" Heavy duty	Size 12 - ½"
110015	TC Clamp 2½" Light duty	Size 25 - 1" and 38 - 1½"
110279	TC Clamp 2½" Heavy duty	Size 25 - 1" and 38 - 1½"

About us

Steridose is a global brand manufactured at the IDEX Material Processing Technologies plant in Canada. We are highly specialized in the design, development and manufacturing of magnetic coupled mixers and radial diaphragm valves.

Steridose is part of IDEX Corporation, with regional offices in key locations around the world.

Steridose is represented in important certifying and standards organizations, most notably and relevant to the pharmaceutical industry, ASME BioProcessing Equipment standards committee (BPE). We help develop the standards and Good Manufacturing Practices that minimize risk for process interference.

Steridose partners with the best distributors and representatives in the industry all over the world. Together we become the perfect mix; a premium product with global references combined with local presence for product and application support.



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