

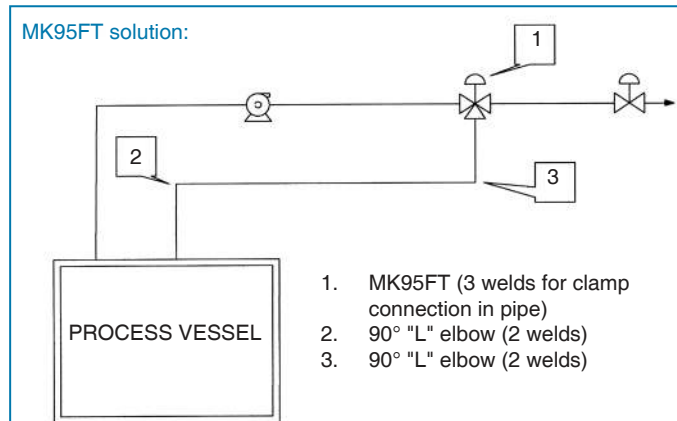
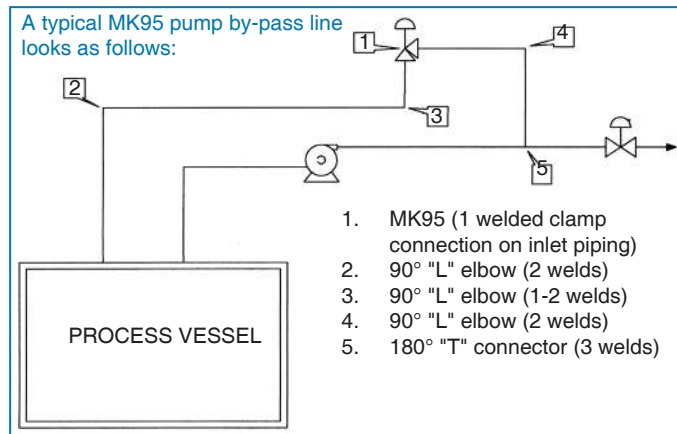
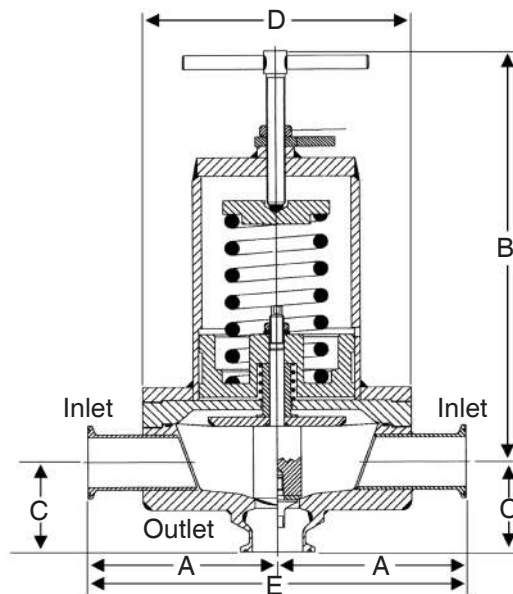
# Mark 95FT Series

CRN Registration Number Available

## Sanitary "Flow Through" Back Pressure Regulators

Starting with the features and benefits associated with the superior design of the Mark 95, Steriflow Valve has added a flow-through option that creates more application potential. The MK95FT can eliminate a portion of the by-pass line components by providing for installation in the primary pipe line - allowing fluid to bypass out the bottom of the valve should an overpressure event occur.

The Mark 95FT has a bi-directional inlet, and is found in liquid services such as WFI loops, CIP lines and filling lines. The valve is normally closed, allowing flow to pass straight through to downstream users. If pressure builds and reaches the setpoint, the Mark 95FT will open to relieve and maintain constant pressure. This design allows for elimination of pipe "T's" and elbows, reduction of weld joints, simplified by-pass piping and easier, quicker installation. Due to the unobstructed flow path through the valve, very little to no pressure loss through the valve can be expected. This is a key reason the MK95FT can be installed directly into the primary process piping.



Valve Size	Dimensions (inches)					Weight Lbs
	A	B	C	D	E	
3/4"	3.29	8.50	1.50	5.70	6.58	19
1"	4.00	8.50	1.64	5.70	8.00	21
1-1/2"	4.24	10.5	2.53	7.25	8.48	41
2"	5.34	17.5	2.96	9.50	10.7	91
3"	5.34	18.0	3.46	9.50	10.7	99

Valve Size	Dimensions (mm)					Weight Kgs
	A	B	C	D	E	
DN20	84	216	38	145	168	8,6
DN25	102	216	42	145	203	9,5
DN40	108	267	64	184	214	19
DN50	136	445	75	241	271	41
DN80	136	457	88	241	271	45

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

MARK 95 SERIES SANITARY BACK PRESSURE REGULATORS

ORDERING SCHEMATIC

Model	LL Option	Size	Body Material	Gauge Port Opt	1 & 2	3 & 4	5 & 6	7 & 8	9 & 10	11 & 12	13 & 14	15
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Model	
95	ASME BPE Tri-Clamp Connections
95T	ASME BPE Tube Weld Ends
95D	DIN Tri-Clamp Conn's to DIN 32676 Row A
95DT	DIN Tube Weld Ends to DIN 11866 Row A
95S	ISO Tri-clamp Conn's to DIN 32676 Row B
95ST	ISO Tube Weld Ends to DIN 11866 Row B
95FT	Flow-Through with ASME BPE Tri-Clamp Connections

Note: Tube ends and Tri-clamp ends per standard stated in end item. Consult factory for other options.

Lift Lever Option	
LL*	Lift Lever (Leave blank if not needed)

\* Not available for 0.5 or 1.5 Cv soft seats

Size	
050	1/2"
075	3/4"
100	1"
150	1-1/2"
200	2"
300	3"
15	DN15
15N*	DN15 Non-standard Clamp Face (MK95D or MK95S)
20	DN20
20N*	DN20 Non-standard Clamp Face (MK95D only)
25	DN25
40	DN40
50	DN50
80	DN80

\* DIN or ISO tri-clamp face not conforming to DIN standard 32676. Customer must include required tri-clamp face dimensions on RFQ or Purchase order.

Body Material	
6L	ASME SA479 316L (UNS 31603)
6E	EN 10272:2000 GR 1.4435

Body Configuration - Gauge Port	
Leave blank if not needed	
90	3/4" ASME BPE Tri-Clamp F/Gauge port @ 90°
180	3/4" ASME BPE Tri-Clamp F/Gauge port @ 180°
270	3/4" ASME BPE Tri-Clamp F/Gauge port @ 270°

1 & 2		Body	
		Finish	Cvs (Kvs)
A	20Ra Interior/63rms Exterior (Std)	A	0.5 & 1.5 (0,43 & 1,3)
B	20Ra Interior/20Ra Exterior	G	3.0 (2,6)
C	8Ra Interior/63rms Exterior*	H	4.5 (3,9)
D	20Ra Interior/8Ra Exterior	K	5.5 (4,7)
E	8Ra Interior/8Ra Exterior*	M	10.0 (8,6)
F	8Ra Interior/20Ra Exterior*	N	19.0 (16,3)
		P	28.0 (24,1)

\* Handle and all external surfaces must be selected separately in boxes 7 and 11/12.

3 & 4		Trim		
		Finish	Cv & Seat	Available in Valve Size
A	20Ra (Standard)	5	Cv 0.5 Hard Seat	050 - 075
B	8Ra	8	Cv 0.5 Teflon Seat (no LL)	050 - 075
*C	20Ra LL	6	Cv 0.5 Peek Seat (no LL)	050 - 075
*D	8Ra LL	A	Cv 1.5 Hard Seat	050 - 100
		9	Cv 1.5 Teflon Seat (no LL)	050 - 100
		7	Cv 1.5 Peek Seat (no LL)	050 - 100
		E	Cv 3.0 Hard Seat	100
		F	Cv 3.0 Teflon Seat	100
		G	Cv 3.0 Jorlon Seat	100
		B	Cv 3.0 Peek Seat	100
		H	Cv 4.5 Hard Seat	100 - 150
		J	Cv 4.5 Teflon Seat	100 - 150
		K	Cv 4.5 Jorlon Seat	100 - 150
		C	Cv 4.5 Peek Seat	100 - 150
		L	Cv 5.5 Hard Seat	100
		M	Cv 5.5 Teflon Seat	100
		N	Cv 5.5 Jorlon Seat	100
		D	Cv 5.5 Peek Seat	100
		P	Cv 10 Hard Seat	150 - 300
		Q	Cv 10 Teflon Seat	150 - 300
		R	Cv 10 Jorlon Seat	150 - 300
		3	Cv 10 Peek Seat	150 - 300
		S	Cv 19 Hard Seat	200
		T	Cv 19 Teflon Seat	200
		U	Cv 19 Jorlon Seat	200
		4	Cv 19 Peek Seat	200
		V	Cv 28 Hard Seat	300
		W	Cv 28 Teflon Seat	300
		X	Cv 28 Jorlon Seat	300
		Y	Cv 28 Peek Seat	300
ZZ	Non-Standard			

\* Trim option C/D requires Actuator option LL

ORDERING SCHEMATIC

Model	LL Option	Size	Body Material	Gauge Port Opt	1 & 2	3 & 4	5 & 6	7 & 8	9 & 10	11 & 12	13 & 14	15

5 & 6	O-Ring/Diaphragm
	Cv 0.5 thru 3.0
BS	Buna/SST Dia.
EL	EPDM/EPDM Dia.
ES	EPDM/SST Dia.
SS	Silicone/SST Dia.
TG	Teflon Encap. Viton/Jorlon Dia.
TE	Teflon Encap. Viton/SST Dia.
VS	Viton/SST Dia.
ZZ	Non-standard

9 & 10	Diaphragm
6L	SST (all exterior)
EP	EPDM (all exterior)
JL	Jorlon (all exterior)
UJ	Ultra-thin Jorlon (all exterior)***

\*\*\* Ultra thin Jorlon available for 1/2" -1" valves only

5 & 6	O-Ring/Diaphragm
	Cv > 3.0
BU	Buna/SST Dia.
EE	EPDM/EPDM Dia.
EP	EPDM/SST Dia.
SL	Silicone/SST Dia.
TS	Teflon Encap. Silicone/SST Dia.
TY	Teflon Encap. Viton/Jorlon Dia.
TV	Teflon Encap. Viton/SST Dia.
VT	Viton/SST Dia.
ZZ	Non-standard

11 & 12	Actuator Finish/Type
AA	Standard
BA	20Ra (SF5) exterior
CA	8Ra exterior
DA	Electro-polished for 2" & 3"
LL	Lift Lever (95LL only)

13 & 14	PED Compliance
00	Not Required
0G	SEP (1/2", 3/4", 1") (DN15-DN25)
0F	CE Category I (1-1/2", 2", 3") (DN40-80)

15	Options
08	Clean for Oxygen Service
09	Clean for Oil Free Service
ZZ	Non-Standard Option

7	Adjusting Screw Finish (Except Threads)
A	Electro-polished (Standard)
B	20Ra (SF5)
C	8Ra

8	Spring Range PSI (Bar)					
	1/2"-1"		1 1/2"		2"-3"	
A*	3-8* (0,2-0,5)	B**	3-25** (0,2-1,7)	F	5-25 (0,34-1,7)	
D	5-30 (0,34-2,1)	E	10-25 (0,7-1,7)	E	10-25 (0,7-1,7)	
H	15-50 (1,0-3,4)	G	15-40 (1,0-2,7)	J	15-60 (1,0-4,1)	
L	35-90 (2,4-6,2)	K	35-85 (2,4-5,8)			
Q	50-105 (3,4-7,2)					

\* Ultra thin Jorlon or EPDM Diaphragm only

\*\* EPDM Diaphragm only

SAMPLE SPECIFICATION

Stainless steel sanitary back pressure regulator body and wetted components shall be made from 316L, ASTM A479, S31603 barstock material. Regulator shall be activated by FDA approved, USP Class VI certified Jorlon diaphragm with life-time guarantee. All guiding of valve stem/plug shall be outside of the wetted, process areas, above diaphragm. Regulator shall be free of threads within wetted, process areas of valve internal and shall be self draining when installed with outlet vertical and below valve assembly.

Steriflow Valve reserves the right to make revisions to its products, specifications, literature, and related information without notice. Please visit our website at [www.steriflowvalve.com](http://www.steriflowvalve.com) for the latest information on our products.