SIFLON

Polymers Pvt. Ltd.

Global MCS

MSCB-122

www.siflon.com

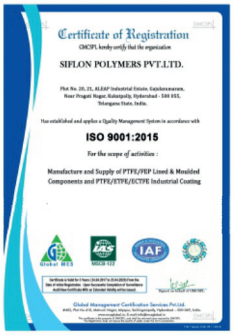
ABOUT US

Founded in 1996 by Mr. R.Ananthaiah, as a small scale PTFE component manufacturing industry, we've gradually diversified into different sectors. Today, our operations span 5 major areas: Manufacture of Veterinary APIs (Siflon Drugs), Veterinary Formulations (Siflon Drugs & Pharmaceuticals Pvt. Ltd.), Veterinary Pharmaceutical Franchisee Outlets (Siflon Vet Pharma), PTFE components (Siflon Polymers), Reactors (Siflon Engineering) and Aloevera products (Aloewell Herbals).

Backward and forward integration has been the key to diversify into different sectors. The founder being a chemical engineer, always had a zeal to establish chemical industry and started Siflon Drugs for the manufacture of veterinary APIs. The company pursued a strategy of backward integration – in reactor, PTFE lined components manufacturing and forward integration – in veterinary formulations and franchisee outlets to market the veterinary medicines.

The Quality and Commitment are the pillars of our company. Our company's motto is 'Quality is our strength' and we believe that it had been the promising reason for the company's progress. Thus, At Siflon, QUALITY comes first.

At Siflon Polymers Pvt Ltd, we Manufacture PTFE Lined pipes, bends, valves and many more as per the requirement of Chemical Industries. The PTFE components are used in the chemical plants with stand high temperatures and to prevent the corrosion.


Certificate of Registration

SIFLON POLYMERS PVT.LTD.

ISO 9001:2015

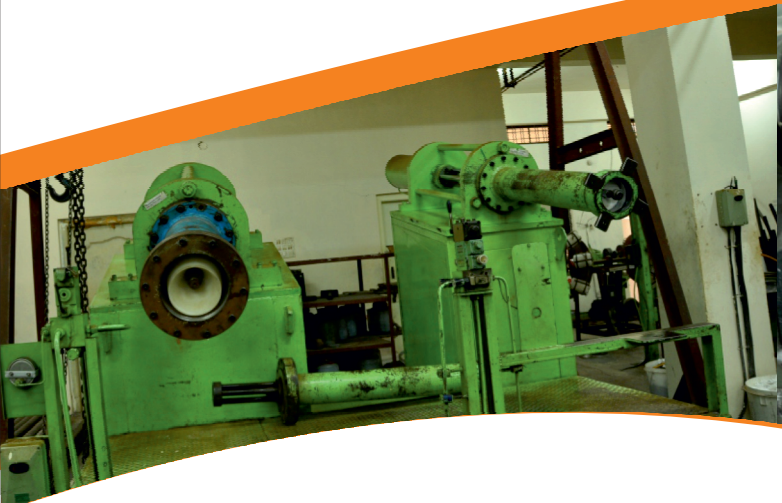
Manufacture and Supply of PTFE/FEP Lined & Moulded Components and PTFE/ETFE/ECTFE Industrial Coating

SIFLON

PRODUCT LIST

1. PTFE LINED PIPES
2. PTFE LINED BENDS – 90°, 45°
3. FEP LINED TEES
4. FEP LINED BUTTERFLY VALVES
5. FEP LINED BALL VALVES
6. PTFE LINED HOSE PIPES
7. FEP LINED GLR MANHOLE COVERS
8. FEP LINED FLUSH BOTTOM VALVES
9. PTFE BELLOWS
10. PTFE LINED SPARGERS
11. PTFE SPACERS
12. FEP LINED CONCENTRIC REDUCERS
13. FEP LINED REDUCING FLANGES
14. FEP LINED HEADERS(MANI FOLDS)
15. PTFE BUSHES
16. PTFE T.BUSHES
17. PTFE RODS
18. PTFE ENVELOP GASKETS
19. PTFE SHEETS
20. PTFE GASKETS
21. PTFE 'O' RINGS
22. FEP LINED STRAINERS
23. FEP LINED BLIND FLANGES
24. PTFE SCRAPPERS, SAMPLERS
25. FEP LINED SIGHT FLOW GLASS
26. FEP LINED VIEW GLASS
27. PTFE DIP PIPE / BLOW LEGS
28. PTFE SCRUBBERS & TANKS
29. HALAR COATING TANKS & RECEIVERS
30. HDPE LINED PIPES & FITTINGS

AND ALL OTHER PRODUCTS RELATED TO ANY PTFE / FEP / PFA / HDPE / HALAR



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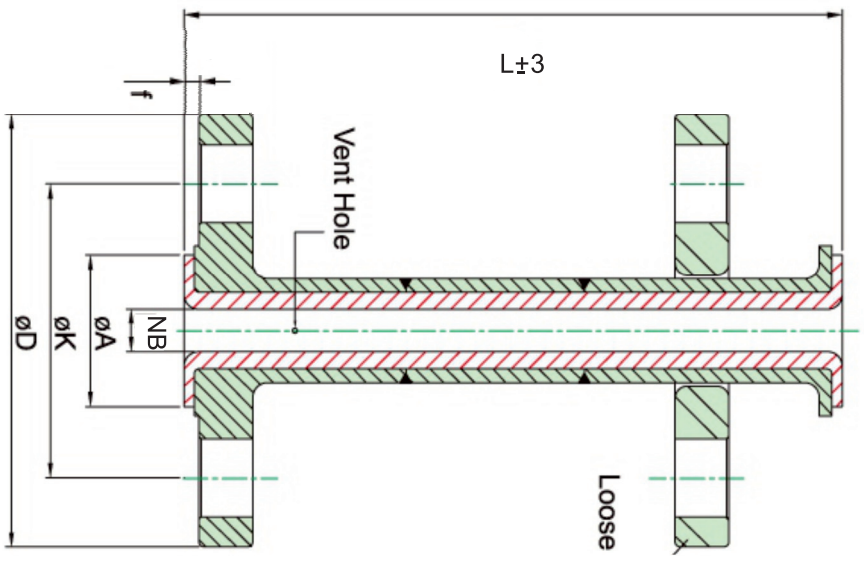
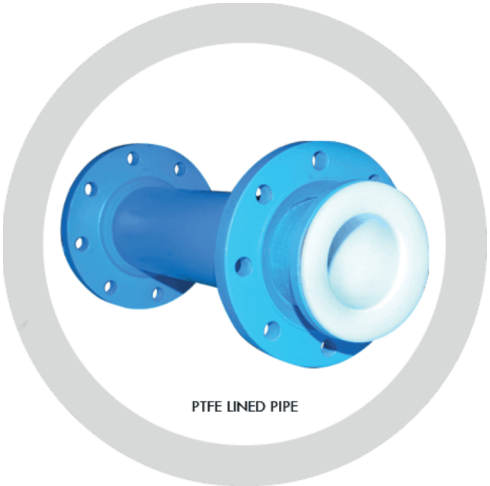
PTFE LINED PIPE



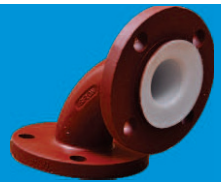
NB	SCH	FLANGE PCD (ϕ K)	FLANGE OD (ϕ D)	RAISED FACE(ϕA)	LENGTH (L)	THICKNESS (f)
15	40	60.5	89	35	5000	2.5
20	40	70.0	98	43	5000	2.5
25	40	79.5	108	51	5000	3.0
40	40	98.5	127	73	5000	3.2
50	40	120.5	152	92	5000	3.5
80	40	152.5	190	127	3000	3.8
100	40	190.5	229	157	3000	4.0
150	40	241.5	279	216	3000	5.5
200	40	298.5	343	270	3000	7.5
250	40	362.0	406	324	3000	9.5
300	40	431.8	482.6	381	3000	9.5



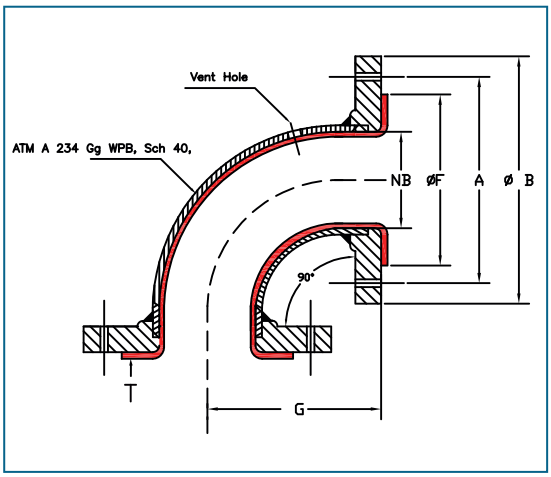
TECHNICAL SPECIFICATIONS

M.O.C.	Seamless Pipe As Per ASTM A 106 Gr B. / SS / Sch 40.
Flanges	As per ASTM A 105/N Forged / IS2062 / SS. One end fixed & another Loose Flanges
Flange Dimensions	ANSI B 16.5 Class ASA #150 / Class ASA # 300
Lining Material	As per ASTM D- 1457, PTFE Resin by paste Extrusion technology
Lining Standard	ASTM F 1545 -97 (2009)
Wide Range Of Pipes	20NB to 300NB
Lengths	100MM to 3000MM (Longer Lengths available on request) Full Vaccum / Anti static / Temperature range - 60 to +250

PTFE LINED BEND



Lined Elbow 90°

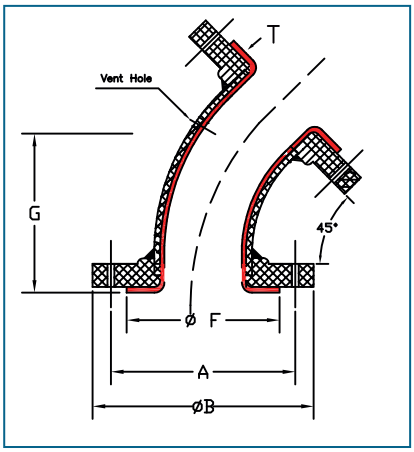


Dimensional Table:

Lined Elbow 90°						
NB	SCH	Flange PCD (A)	Flange OD (♦B)	Raised Face (♦F)	Face to Face (G)	Liner Thk (T)
25	40	79.4	108.0	51.0	89	3.5
40	40	98.4	127.0	73.0	102	3.8
50	40	120.6	152.4	92.0	114	4.1
65	40	139.7	177.8	105.0	127	4.1
80	40	152.4	190.5	127.0	140	4.3
100	40	190.5	228.6	157.0	165	4.6
150	40	241.3	279.4	216.0	203	5.5
200	20	298.4	342.9	270.0	229	7.5
250	20	361.9	406.4	324.0	279	9.5
300	20	476.2	482.6	381.0	305	9.5

NOTE: All Dimensions are in MM

Lined Elbow 45°



Dimensional Table:

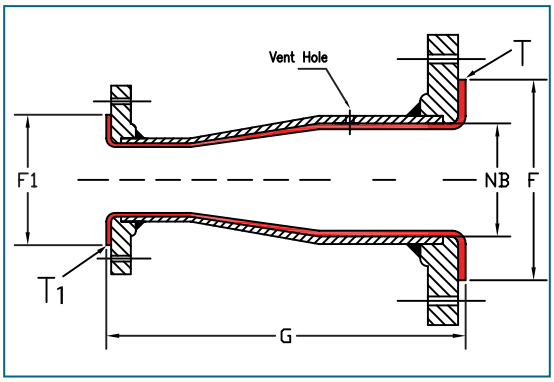
Lined Elbow 45°						
NB	SCH	Flange PCD (A)	Flange OD (♦B)	Raised Face (♦F)	Face to Face (G)	Liner Thk (T)
25	40	79.4	108.0	51.0	44	3.5
40	40	98.4	127.0	73.0	57	3.8
50	40	120.6	152.4	92.0	63	4.1
65	40	139.7	177.8	105.0	76	4.1
80	40	152.4	190.5	127.0	76	4.3
100	40	190.5	228.6	157.0	102	4.6
150	40	241.3	279.4	216.0	127	5.5
200	20	298.4	342.9	270.0	140	7.5
250	20	361.9	406.4	324.0	165	9.5
300	20	476.2	482.6	381.0	190	9.5

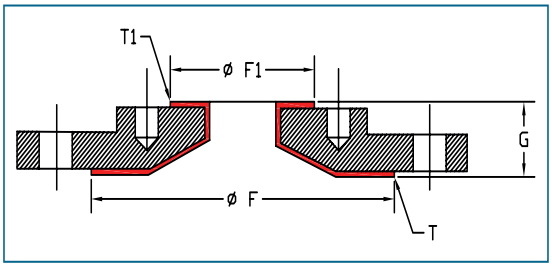
NOTE: All Dimensions are in MM

TECHNICAL SPECIFICATIONS

M.O.C	Seamless Pipe as per ASTM A 234Gr., SS. / Sch 40.
Flanges	As per ASTM A 105 / IS2062 / SS one side Fixed Flange one side loose Flange
Flange Dimensions	ANSI B 16.5 CLASS ASA # 150 / Class ASA # 300
Lining Material	As per ASTM D- 1457 PTFE Resin By Paste Extrusion technology. HDPE
Lining Standard:	ASTM F 1545 -97 (2009) Anti Static / Full Vaccum

FEP / PFA / HDPE LINED REDUCERS





Dimensional Table:

CONCENTRIC/ECCENTRIC REDUCER					
NB	Raised Face (♦F)	Raised Face (♦F 1)	Face to Face (G)	Liner Thk (T)	Liner Thk (T 1)
40 X 25	73.0	51.0	114	3.8	3.5
50 X 25	92.0	51.0	127	4.1	3.5
50 X 40	92.0	73.0	127	4.1	3.8
80 X 25	127.0	51.0	152	4.3	3.5
80 X 40	127.0	73.0	152	4.3	3.8
80 X 50	127.0	92.0	152	4.3	4.1
100 X 40	157.0	73.0	178	4.6	3.8
100 X 50	157.0	92.0	178	4.6	4.1
100 X 80	157.0	127.0	178	4.6	4.3
150 X 50	216.0	92.0	229	5.0	4.1
150 x 80	216.0	127.0	229	5.0	4.3
150 x 100	216.0	157.0	229	5.0	4.6
200 X 80	270.0	127.0	279	6.0	4.3
200 x 100	270.0	157.0	279	6.0	4.6
200 X 150	270.0	216.0	279	6.0	5.0
250 x 100	324.0	157.0	305	6.5	4.6
250 X 150	324.0	216.0	305	6.5	5.0
250 X 200	324.0	270.0	305	6.5	6.0
300 X 150	381.0	216.0	356	8.0	5.0
300 X 200	381.0	270.0	356	8.0	6.0
300 X 250	381.0	324.0	356	8.0	6.5
350 X 250	413	324.0	406	8.0	6.5

NOTE: All Dimensions are in MM

TECHNICAL SPECIFICATIONS

M.O.C:	Cast steel /Mercerized Steel/Seamless SCH 40 Stainless steel
FLANGES:	As per ASTM A 105/ IS2062 SS one side Fixed Flange / one side loose Flange
FLANGE DIMENSIONS	ANSI B 16.5 Class ASA #150 / Class ASA # 300
LINING MATERIAL	As per ASTM D 3307 PFA/ FEP / HDPE by Injection Moulding
LINING STANDARD	ASTM F 1545 -97 (2009)

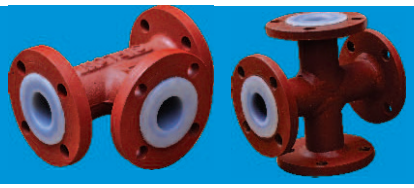
Dimensional Table:

LINED REDUCING FLANGE					
NB	Raised Face (♦F)	Raised Face (♦F 1)	Face to Face (G)	Liner Thk (T)	Liner Thk (T 1)
40 X 25	73.0	51.0	35.0	3.8	3.5
50 X 25	92.0	51.0	35.0	4.1	3.5
50 X 40	92.0	73.0	35.0	4.1	3.8
80 X 25	127.0	51.0	45.0	4.3	3.5
80 X 40	127.0	73.0	45.0	4.3	3.8
80 X 50	127.0	92.0	45.0	4.3	4.1
100 X 40	157.0	73.0	45.0	4.6	3.8
100 X50	157.0	92.0	45.0	4.6	4.1
100 X 80	157.0	127.0	45.0	4.6	4.3
150 X 50	216.0	92.0	54.0	5.0	4.1
150 x 80	216.0	127.0	54.0	5.0	4.3
150 x 100	216.0	157.0	54.0	5.0	4.6
200 X 80	270.0	127.0	54.0	6.0	4.3
200 x 100	270.0	157.0	54.0	6.0	4.6
200 X 150	270.0	216.0	54.0	6.0	5.0
250 x 100	324.0	157.0	54.0	6.5	4.6
250 X 150	324.0	216.0	54.0	6.5	5.0
250 X 200	324.0	270.0	54.0	6.5	6.0
300 X 150	381.0	216.0	54.0	8.0	5.0
300 X 200	381.0	270.0	54.0	8.0	6.0
300 X 250	381.0	324.0	54.0	8.0	6.5
350 X 300	413	381.0	54.0	8.0	8.0

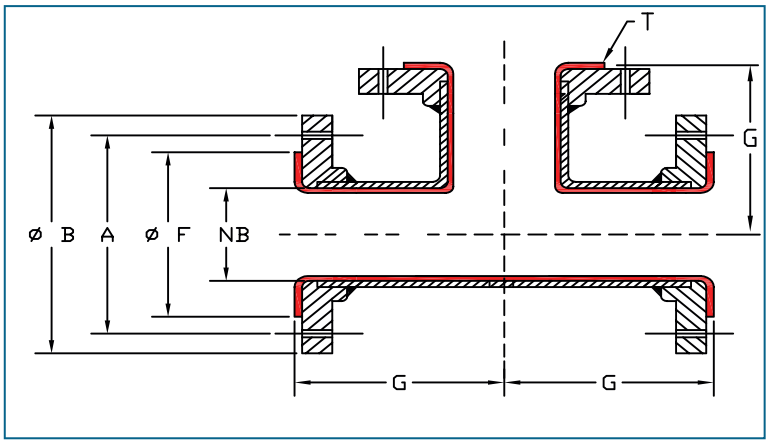
NOTE: All Dimensions are in MM

TECHNICAL SPECIFICATIONS

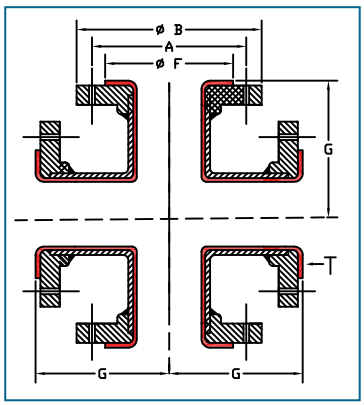
M.O.C:	Cast steel /Mercerized Steel
Flanges	As per ASTM A 105/N Forged / IS206 / SS Both side Fixed Flange
Flange Dimensions	ANSI B 16.5 Class ASA #150 / Class ASA # 300
Lining Material	As per ASTM D 3307 PFA/ FEP By Injection Moulding
Lining Standard	ASTM F 1545 -97 (2009)



Lined Equal TEE



Lined Cross-Equal



Dimensional Table:

Lined Equal TEE						
NB	S/H	Flange PCD (A)	Raised OD (ΦF)	Raised Face (ΦF)	Face to Face (G)	Liner Thk (T)
25	40	79.4	108.0	51.0	89	3.5
40	40	98.4	127.0	73.0	102	3.8
50	40	120.6	152.4	92.0	114	4.1
65	40	139.7	177.8	105.0	127	4.1
80	40	152.4	190.5	127.0	140	4.3
100	40	190.5	228.6	157.0	165	4.6
150	40	241.3	279.4	216.0	203	5.0
200	40	298.4	342.9	270.0	229	6.0
250	40	361.9	406.4	324.0	279	6.5
300	40	476.2	482.6	381.0	305	8.0

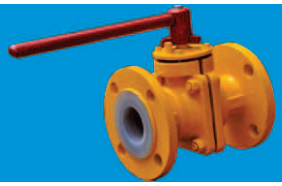
NOTE: All Dimensions are in MM

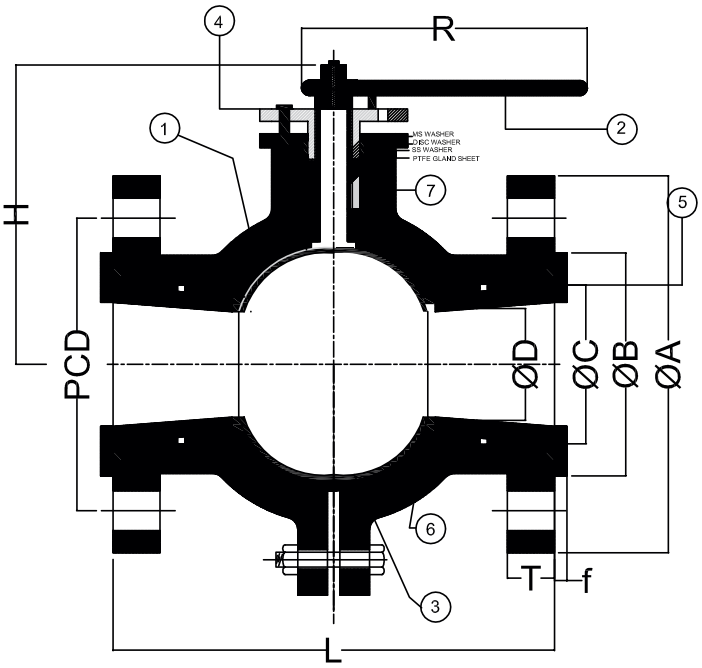
TECHNICAL SPECIFICATIONS

M.O.C:	Seamless PiPe As per ASTM A 234 Gr. WCB, CAST STEEL, SS Sch 80/ Sch 40 / SCh 20.
Flanges	As per ASTM A 105/N Forged / IS206 / SS Both side Fixed Flange
Flange Dimensions	ANSI B 16.5 Class ASA #150 / Class ASA # 300
Lining Material	As per ASTM D 3307 PFA / FEP / HDPE By Injection Moulding
Lining Standard	ASTM F 1545 -97 (2009)

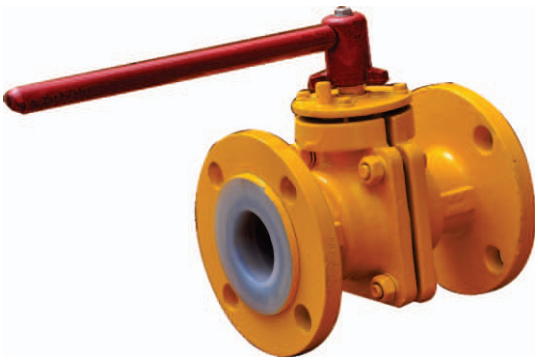
SIFLON

FEP / PFA / HDPE LINED BALL VALVE





MATERIAL SPECIFICATION			
SL NO	PART NAME	MATERIAL	SPECIFICATION
1	BODY	WCB	ASTM A 216
2	HANDLE	MS	IS2062
3	BALL	WCB	ASTM A216
4	COVER	WCB	ASTM A216
5	LINING	FEP/PFA/HDPE	FEP/PFA/HDPE
6	SEAT RING	PTFE	PTFE
7	BALL BUSH	PTFE	PTFE



NB	L	H	R	øA	øB	øC	øD	T	f	BOLTS HOLES		
										DIA	NO	PCD
25	145	120	198	108	51	30	25	14.3	3.5	14	4	79.5
40	170	120	220	127	73	40	35	17.5	3.8	14	4	98.5
50	185	145	260	152	92	52	46	19.1	4.1	16	4	120.5
80	205	170	340	191	127	80	70	23.8	4.3	16	4	152.5
100	240	205	400	229	157	105	96	23.8	4.6	16	8	190.5
150	280	247.5	600	279	216	155	145	25.4	5.0	20	8	241.5

TECHNICAL SPECIFICATIONS

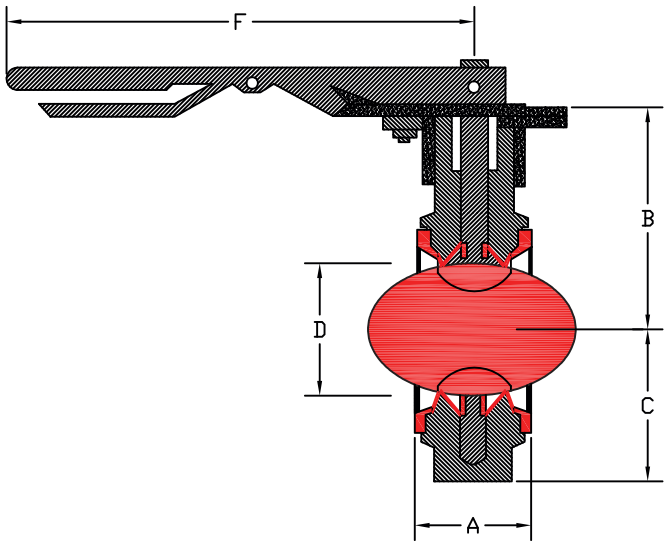
M.O.C:	Design Standard:- BS 5351
Bore	Reduced / Full Bore
End Connection	Flange end
Dimension Standard	ANSI B 16.10
Flange Rating & Facing	150/300 # ANSI B 16.5 RF
Body	2 Piece Design
Leakage Class	VI
Isopad	O.K
Stem	Blowout Proof

Services

Application	Flow Control
State	Liquid / Gas
Mounting	Horizontal / vertical

Working Pressure	12 (Kg/Cm2)
Design Pressure	18 (kg/cm2)
Design Temperature	-60° (C) to 260° C
Vacuum	Full Vacuum.

SIFLON FEP / PFA / HDPE LINED BUTTERFLY VALVE



Dimensional Table:

FEP Lined Butterfly Valves :					
Size NB	A	B	C	D	F
50	43	100	63	32	300
65	46	122	70	48	300
80	46	133	77	64	300
100	52	152	93	91	300
125	56	152	113	116	300
150	56	174	123	135	300
200	60	211	170	191	*
250	67	230	202	239	*
300	78	308	228	290	*
350	78	320	275	332	*
400	102	350	316	378	*
450	114	380	330	425	*
500	127	415	375	485	*
600	154	500	440	570	*

NOTE: All Dimensions are in MM

TECHNICAL SPECIFICATIONS

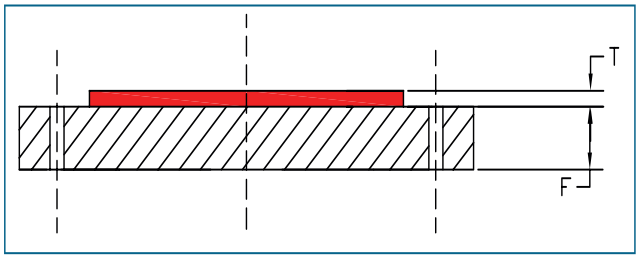
Body	ASTM A 216 Gr WCB
Lining Material	As per ASTM D -3307 PFA/FEP
Disc with Integral Shaft:	CS with SS Shaft Encapsulated with PFA/FEP
Elastomer backup	Silicon
Wedge ring	PTFE
Thrust Washer	SS
GFT Bush	Glass filled PTFE,
Guide Bush	SS PTFE Coated & Lever assembly:CS
Drilling	As per ANSI B 16.5.
Design Std	BS EN 593:2004
Tested Std	BS EN 12266 – 1& 2 (2003)
Lining Thickness	4 to 6MM Thickness.

Services

Application	Flow Control
State	Liquid / Gas
Mounting	Horizontal / vertical

Working Pressure	12 (Kg/Cm2)
Design Pressure	18 (kg/cm2)
Design Temperature	-100(°C) to 260° C
Vacuum	Full Vacuum.

Lined Blind Flanges:-



Dimensional Table:

NB	FLANGE THICKNESS (F)	LINER THICKNESS (T)
MM	MM	MM
25	14.3	3.5
40	17.5	3.8
50	19.00	4.1
80	23.8	4.3
100	23.8	4.6
150	25.4	5.0
200	28.6	6.0
250	30.2	6.5
300	31.8	7.0

NOTE: All Dimensions are in MM

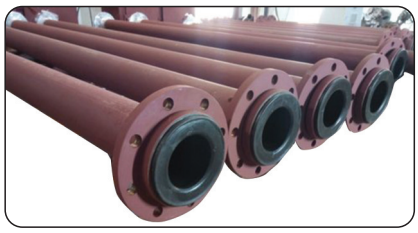
TECHNICAL SPECIFICATIONS

M.O.C:	Cast steel /Mercerized Steel
Flanges	As per ASTM A 105/N Forged / IS206 / SS
Flange Dimensions	ANSI B 16.5 Class ASA #150
Lining Material	As per ASTM D 3307 PFA/ FEP By Injection Moulding / Transfer moulding Technology
Lining Standard	ASTM F 1545 -97 (2009)

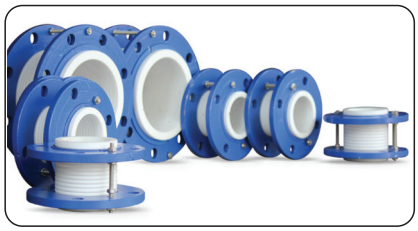
Dimensional Table:

NB	PIPE	FLANGE PCD (Ø K)	FLANGE OD (ØD)	RAISED FACE (ØA)	LENGTH (L)	THICKNESS (T)
25	B-CLASS	79.5	108	51	6000	3.2
40	B-CLASS	98.5	127	73	6000	4.5
50	B-CLASS	120.5	152	92	6000	5.0
80	B-CLASS	152.5	190	127	6000	6.5
100	B-CLASS	190.5	229	157	6000	7.0
150	B-CLASS	241.5	279	216	6000	8.5
200	B-CLASS	298.5	343	270	6000	10.0
250	B-CLASS	362.0	406	324	6000	10.0
300	B-CLASS	431.8	483	381	6000	12.0

NOTE: All Dimensions are in MM



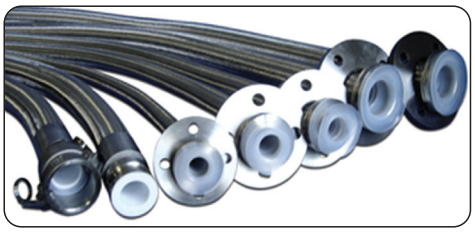
MS HDPE LINED



PTFE BELLOWS

TECHNICAL SPECIFICATIONS

M.O.C:	ERW PIPE AS PER ASTM A53 B-CLASS/C-CLASS/SS ERW SCH-20
FLANGE DIMENSIONS	ANSI B 16.5 Class ASA #150
LINING MATERIAL	As per ASTM D - 1457, HDPE Resin Blended PE-100
WIDE RANGE OF PIPES	25 NB to 300 NB
LENGTHS	100 mm to 6000mm (Longer Lengths available on request)



PTFE FLEXIBLE HOSE PIPES

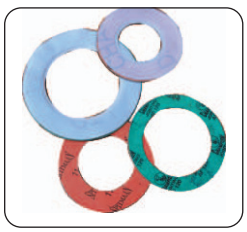
PTFE SHEET / BUSHES / ORINGS

PTFE VALVE

PTFE ANTI STATIC GASKET

FEP LINED VIEW GLASS

DOUBLE WINDOW VIEW GLASS



PTFE ENEVELOPE GASKET

PTFE LINED DIP PIPES

FEP LINED FLUSH BOTTOM VALVE

Quality System : Siflon polymers is an ISO 9001: 2015 Certified company
We will provide the following test certificates along with our materials.

Hydro test: As per ASTM F 1545
Spark test: As per ASTM F 1545
Raw material Test certificates
Steel Test Certificates
Guarantee Certificate. Etc....

External Finish for added Perfection
Paint:- Red oxide/ Epoxy Primer / Enamel
Packing:- PTFE Flare Faces will be covered with end packing made out of Ply wood/ LDP Covers

SIFLON

HALAR COATING TANKS & RECEIVERS
PTFE LINED SCRUBBERS

Properties of Coatings

Item	Unit	Method	ETFE	ECTFE	PVDF	PFA
Mechanical Properties						
Specific Gravity		ASTMD792	1.74	1.69	1.77	2.15
Melt Velocity	Pa-s		10^3		10^3	10^3
Tensile Strength	Mpa	ASTMD638	48	41	55	25
Tensile Elongation	%	ASTMD638	430	250	250	300
Tensile Modulus	Mpa	ASTMD638	800	1650	970	
Flex Modulus	Mpa	ASTMD790	900	670	1550	586
Izod Impact	j/m	AST MD256	non-breakable	non-breakable	250	non-breakable
Rockwell Hardness		ASTMD785	50	93	110	
Durometer D Hardness		ASTMD785	67			60
Friction Coefficient			0.2		0.2	0.2
Thermal Properties						
Melting Point	°C		260	245	180	306
Linear Thermal Expansion Coefficient	10-5	ASTMD696	9.4		12.8	
Flammability		UL-94	V-0	V-0	V-0	V-0
Continuous Service Temperature	°C		150	150	150	150
Chemical Properties						
Water Absorption	%	ASTMD570	0.03	0.01	0.05	0.02
Chemical Resistance		ASTMD543	excellent	good	good	excellent
Gas Permeation		ASTMD1434				
O2			3.1		1.8	6.7
N2			1		0.1	2
Electrical Properties						
Volume Specific Resistance	(V-cm)/A	ASTMD257	10'17	10'18	2*10'14	
Dielectric Constant		ASTMD150	2.6	2.6	6.4	
Dielectric Tangent		ASTMD150				
60Hz			0.0006	0.0006	0.05	>1 x 1017 ohm.cm
1kHz			0.0008	0.0015	0.018	2
1MHz			0.005	0.015	0.16	0.0002-0.0007
Break-down Voltage	kV/.01 mm	ASTMD149	12	12	9	12
Arc Resistance	s	ASTM0495	120	18	60	>180

PTFE LINED SCRUBBERS

PTFE COLUMNS

HALAR COATING RECEIVERS / TANKS

Note: Scrubbers and columns will provide as per customer requirements

PHYSICAL PROPERTIES OF MOST IMPORTANT THERMOPLASTICS						
PROPERTIES	STANDARD	UNITS	PTFE	PFA	FEP	HDPE
DENSITY	DIN-53497	Gm/cm3	2.12	2.12	2.15	0.95
TENSILESTRESS AT YIELD	DIN-53455	N/mm2	-	-	9.11	-
TENSILE STRENGTH	DIN-53455	N/mm2	20-40	24-30	21-28	24-29
ELONGATION AT BREAK	DIN-53455	%	140-400	300	240-350	100-1000
TENSILE MODULUS	DIN-53457	N/mm2	350-750	280	350-500	800-1100
FLEXURAL MODULUS	ASTM-D-790	N/mm2	-	-	650-670	-
FLEXURAL STRESS	DIN-53452	N/mm2	5.6	18	18	30-40
HARDNESS SHORE D	DIN-53505	-	55	55	55	65
ABRASION RESIST TAB ER	DIN-53754	Mm3/1000U	400	-	3.5	60
LINER THERMAL EXPANSION COEFF	ASTM-D-696	10-5K-1	12-20	14	09-11	20
LOWER PERMANENT SERVICE TEMP.LIMIT	-	°C	260	260	205	85
UPPER PERMANENT SERVICE TEMP.LIMIT	-	°C	-200	-190	-190	-50
THERMAL CONDUCT	DIN-52612	W/m K	0.24	0.19	0.25	0.43
SPECIFIC HEAT CAP	-	KJ/Kg K	1	-	1.12	1.80
MELTING POINT	DIN-53736	°C	378	305	275	130
SURFACE RESISTIVITY	DIN-53482	Ohm	$>10^{17}$	$>10^{18}$	$>10^{16}$	10^{13}
VOLUME RESISTIVITY	DIN-53482	Ohm-cm	$>10^{10}$	$>10^{18}$	$>10^{16}$	$>10^{16}$
COMPRESSIVE STRENGTH	ASTM-D-695	N/mm2	-	25.5	23.7	-

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