



MASON INDUSTRIES, Inc.

MERCER RUBBER Co.

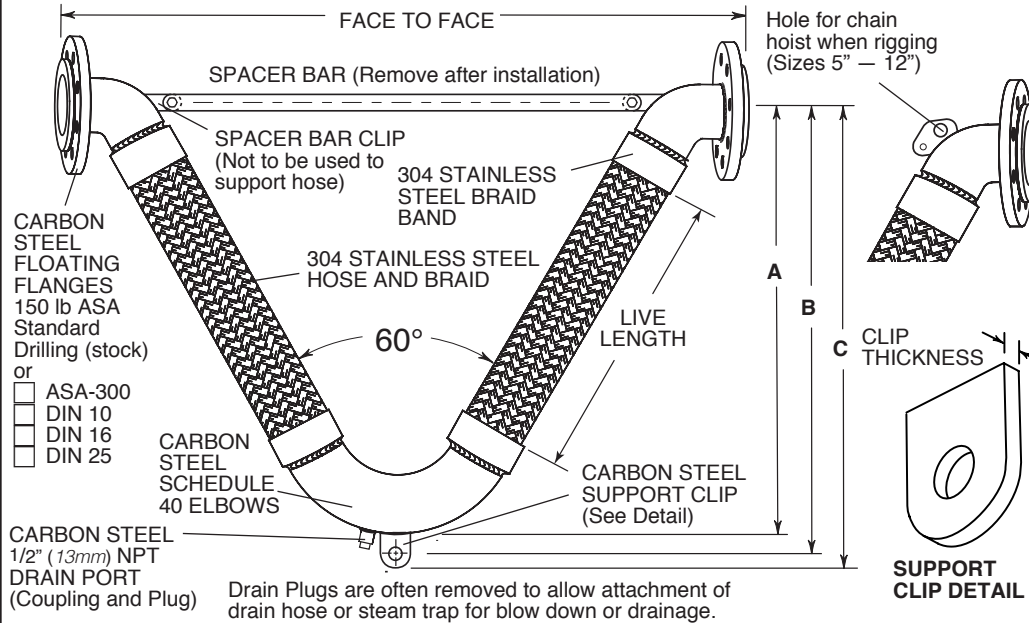
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JOB NAME _____
 CUSTOMER _____
 CUSTOMER P.O. _____
 MASON M. _____
 DWG No. _____

VFL

60Vee SS BRAIDED HOSE with CARBON STEEL FLOATING FLANGES



CARBON STEEL PLATE FLANGES

Pipe Size (in)	Pipe Size (mm)	Flange Thickness (in)	Flange Thickness (mm)
2 thru 4	50 thru 100	5/8	16
5 thru 6	125 thru 150	3/4	19
8 thru 12	200 thru 300	1	25

CARBON STEEL SUPPORT CLIP

Pipe Size (in)	Pipe Size (mm)	SUPPORT CLIP Hole Diameter (in)	SUPPORT CLIP Hole Diameter (mm)	Thickness (in)	Thickness (mm)
2	50	5/8	16	1/8	3
2 1/2	65	5/8	16	1/8	3
3	80	3/4	16	1/8	3
4	100	3/4	19	1/8	3
5	125	3/4	19	1/4	6
6	150	7/8	22	3/8	9
8	200	7/8	22	1/2	13
10	250	1	25	1/2	13
12	300	1	25	1/2	13

RATED PRESSURES @ ELEVATED TEMPERATURES (psi) (kg/cm²)

Hose Size (in) (mm)	250°F	350°F	450°F
	121°C	176°C	232°C
	Factor 0.92	Factor 0.86	Factor 0.81
2 50	330 23	310 21	290 20
2 1/2 65	270 19	250 17	235 16
3 80	260 18	240 16	230 16
4 100	210 15	200 14	190 13
5 125	190 13	180 12	170 11
6 150	190 13	180 12	170 11
8 200	190 13	180 12	170 11
10 250	160 11	150 10	140 9
12 300	160 11	150 10	140 9

SATURATED STEAM RECOMMENDED PRESSURE LIMITS

Size (in) (mm)	Max Gauge (psi) (kg/cm ²)	Temp Reference (F) (°C)
2 50	150 11	362 183
2 1/2 65	125 9	355 179
3 80	125 9	355 179
4 100	125 9	355 179
5 125	100 7	337 169
6 150	100 7	337 169
8 200	75 5	320 160
10 250	60 4	307 153
12 300	60 4	307 153

Full Vacuum Rating- 30" (762mm) Hg

Our steam service ratings are very low in the interest of safety although our 70°F (21°C) pressure ratings are as high or higher than our competitors. All locations where failure could lead to personal injury or suffocation must be avoided. In dangerous locations we suggest housed expansion joints, solid loops, ball joints, packed devices etc. rather than thin walled flexible products regardless of manufacturer.

Consult factory with full location description as well as service conditions for higher pressure or temperature applications.

304 SS can be used up to 850°F (454°C) in applications such as engine exhaust.

When using VFL products in copper or brass water or steam systems, dielectric flanges must be used on each end to prevent leakage from galvanic action.

RATED MOVEMENTS

±4" (100mm) All Directional Seismic Movement
 ±6" (150mm) Guided Thermal Movement Only

VFL DIMENSIONS AND PRESSURE RATINGS (American Units)

Type	Pipe Size & Face to Face (in)	Live Length (in)	Corrugations per foot	A	B	C	Rated Pressure @70°F (psi)
				(in)	(in)	(in)	
VFL	2 X 33	20	58	23 1/4	24 1/4	25	360
VFL	2 1/2 X 37	22	48	26	27	27 3/4	290
VFL	3 X 42	24	46	28 7/8	30 1/8	31 1/8	280
VFL	4 X 49	26	32	32 1/2	33 3/4	34 3/4	225
VFL	5 X 58	30	29	38	39 1/2	40 1/2	200
VFL	6 X 66	33	25	42 5/8	44 1/8	45 3/8	200
VFL	8 X 80	36	23	49 1/4	50 3/4	52	200
VFL	10 X 96	42	21	58 1/2	60 1/4	61 3/4	170
VFL	12 X 112	48	20	67 3/4	69 1/2	71	170

VFL DIMENSIONS AND PRESSURE RATINGS (Metric Units)

Type	Pipe Size & Face to Face (mm)	Live Length (mm)	Corrugations per meter	A	B	C	Rated Pressure @21°C (kg/cm ²)
				(mm)	(mm)	(mm)	
VFL	50 X 838	508	190	591	616	635	25
VFL	65 X 940	559	157	660	686	705	20
VFL	80 X 1067	610	151	733	765	791	19
VFL	100 X 1245	660	105	826	857	883	16
VFL	125 X 1473	762	95	965	1003	1029	14
VFL	150 X 1676	838	82	1083	1121	1153	14
VFL	200 X 2032	914	75	1251	1289	1321	14
VFL	250 X 2438	1067	69	1486	1530	1568	12
VFL	300 X 2849	1219	66	1721	1765	1803	12

Face to Face Tolerance: minus 1% plus 3%. Minimum Burst is four times the Rated Pressure. Safety factor of 4. Size 12" (300mm) has double braid.

QTY	SIZE	TAG

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