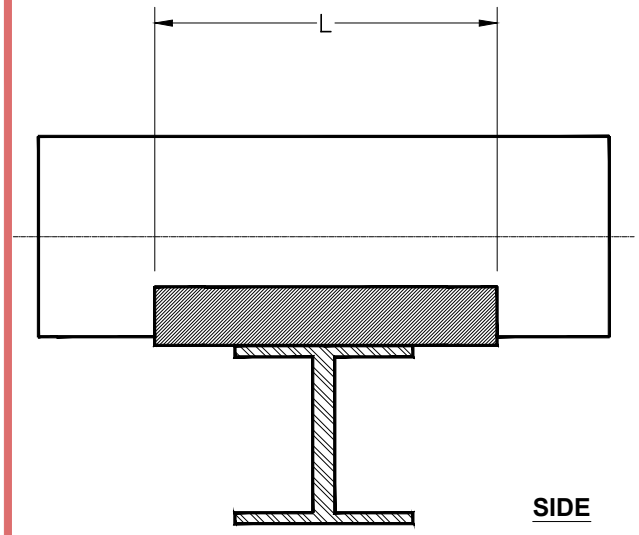
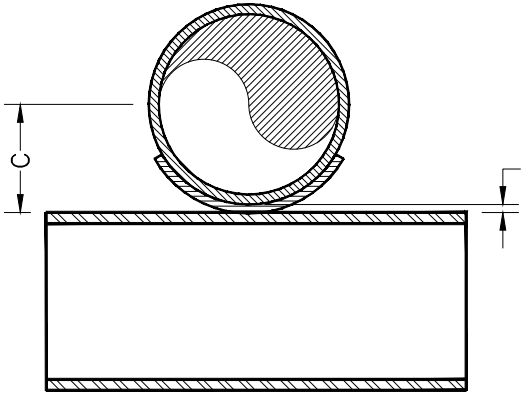
Information in this drawing is of a general nature. Detailed design information (part thickness, load ratings, etc.) are not part of this drawing. User should consult the manufacturer of the pipe support for detailed design information and proper selection of the pipe support for the application.



SIDE



0.20 to 0.32" (5 to 8mm) up to 24"Ø
0.32 to 0.42" (8 to 10.5mm) 26" to 60"Ø

ELEV

Nominal Pipe Size	Nominal O.D.		C		L		Minimum L		Weight (lb/kg)	
SERIES 20JF16, 20JF16-C										
1" (DN25)	2.26"	57mm	1.38"	35mm	6"	152mm	4"	102mm	0.4	0.2
1.5" (DN40)	2.76"	70mm	1.63"	41mm	6"	152mm	4"	102mm	0.5	0.2
2" (DN50)	3.26"	83mm	1.88"	48mm	6"	152mm	4"	102mm	0.7	0.3
3" (DN80)	4.26"	108mm	2.38"	60mm	6"	152mm	4"	102mm	1.0	0.5
4" (DN100)	5.26"	134mm	2.88"	73mm	6"	152mm	4"	102mm	1.3	0.6
6" (DN150)	7.26"	184mm	3.88"	99mm	8"	203mm	4"	102mm	2.6	1.2
8" (DN200)	9.26"	235mm	4.88"	124mm	10"	254mm	4"	102mm	4.2	1.9
10" (DN250)	11.26"	286mm	5.88"	149mm	12"	305mm	4"	102mm	6.3	2.9
12" (DN300)	13.26"	337mm	6.88"	175mm	12"	305mm	4"	102mm	7.5	3.4
14" (DN350)	15.59"	396mm	8.05"	204mm	12"	305mm	4"	102mm	8.9	4.0
16" (DN400)	17.75"	451mm	9.13"	232mm	12"	305mm	4"	102mm	10.1	4.6
18" (DN450)	19.89"	505mm	10.20"	259mm	16"	456mm	6"	152mm	15.1	6.9
20" (DN500)	22.03"	560mm	11.27"	286mm	16"	456mm	6"	152mm	16.7	7.6
24" (DN600)	26.33"	669mm	13.42"	341mm	16"	456mm	6"	152mm	20.0	9.1
30" (DN750)										
36" (DN900)										
42" (DN1050)										
48" (DN1200)										
54" (DN1350)										
60" (DN1500)										

NOTE 4. C = 0.5 * Nominal O.D. + Pad Thk (0.25" nom. up to 24"Ø, 0.38" above 24"Ø).
NOTE 3. Wear pad to be centered on structural support.
NOTE 2. Wear pad to have minimum 120 degrees of contact (max. 180 degrees).
NOTE 1. Wear pad to be of the same material as the pipe.

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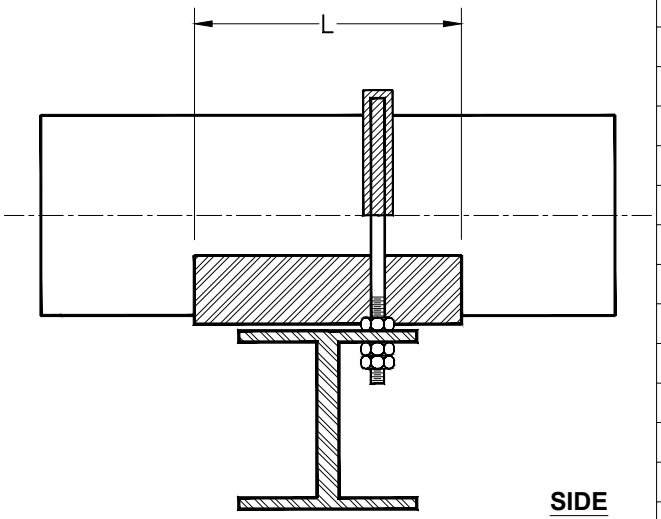
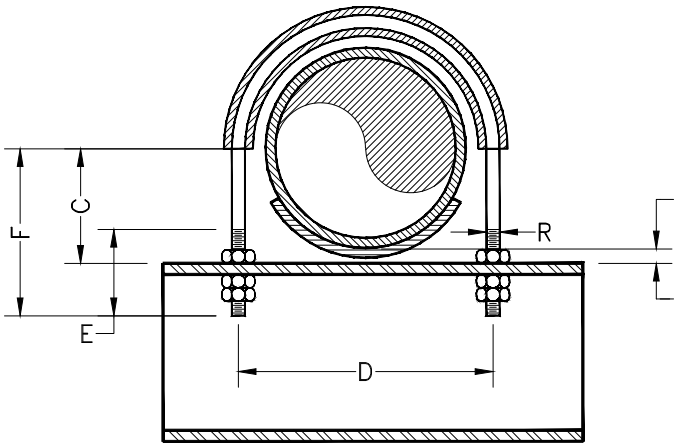
FRP "WEAR" PAD
FIG.210 - 20JF16

REV: 1

Information in this drawing is of a general nature. Detailed design information (part thickness, load ratings, etc.) are not part of this drawing. User should consult the manufacturer of the pipe support for detailed design information and proper selection of the pipe support for the application.



SIDE



0.20 to 0.32" (5 to 8mm) up to 24"Ø
0.32 to 0.42" (8 to 10.5mm) 26" to 60"Ø

T1

ELEV

Nominal Pipe Size	L		R	D +/- 0.12"		E		F	
SERIES 20HV, 20FR-E, 20FR16, 20FR20, 20JF, 20JF16, 110FW, 20C, 20HV-D SERIES 20HV-C, 20FR-EC, 20FR16-C, 20FR20-C, 20JF-C, 20JF16-C, 20HV(FDA)									
1" (DN25)	6"	152mm	3/8"	3.25"	83mm	3.00"	76mm	2.75"	70mm
1.5" (DN40)	6"	152mm	3/8"	3.75"	95mm	3.00"	76mm	3.00"	76mm
2" (DN50)	6"	152mm	3/8"	4.25"	108mm	3.00"	76mm	3.25"	83mm
3" (DN80)	6"	152mm	1/2"	5.25"	133mm	3.50"	89mm	4.13"	105mm
4" (DN100)	6"	152mm	1/2"	6.25"	159mm	3.50"	89mm	4.63"	118mm
6" (DN150)	8"	203mm	5/8"	8.38"	213mm	4.00"	102mm	6.06"	154mm
8" (DN200)	10"	254mm	5/8"	10.38"	264mm	4.00"	102mm	7.13"	181mm
10" (DN250)	12"	305mm	3/4"	12.50"	317mm	4.50"	114mm	8.56"	217mm
12" (DN300)	12"	305mm	7/8"	14.75"	375mm	5.00"	127mm	10.00"	254mm
14" (DN350)	12"	305mm	7/8"	16.95"	430mm	5.00"	127mm	11.23"	285mm
16" (DN400)	12"	305mm	7/8"	19.11"	485mm	5.00"	127mm	12.31"	313mm
18" (DN450)	16"	356mm	1"	21.42"	544mm	5.50"	140mm	13.77"	350mm
20" (DN500)	16"	356mm	1"	23.38"	594mm	5.50"	140mm	14.75"	375mm
24" (DN600)	16"	356mm	1"	27.68"	703mm	5.50"	140mm	16.90"	429mm
30" (DN750)	20"	508mm	1"	33.78"	858mm	5.50"	140mm	19.72"	501mm
36" (DN900)	20"	508mm	1"	40.06"	1018mm	5.50"	140mm	22.86"	581mm
42" (DN1050)									
48" (DN1200)									

NOTE 11. An "extra-long" L dimension of 14" (356mm) may be used up to 16"Ø.
NOTE 10. Minimum L dimensions per Fig.210 may also be used.
NOTE 9. F = C + 1/2in. + 3 * R (or use values in table).
NOTE 8. E = 4 * R + 1 1/2in.
NOTE 7. C = 0.5 * Avg O.D. + T1 (See Fig.210 for C dimensions).
NOTE 6. D = Pipe O.D. + 2 * T1 + R + 1/4in. (or use values in table).
NOTE 5. T1 dimension is from T.O.S. to B.O.P.
NOTE 4. The u-bolt shall not "anchor" the pipe.
NOTE 3. Wear pad to be centered on structural support.
NOTE 2. Wear pad to have minimum 120 degrees of contact (max. 180 degrees).
NOTE 1. Saddle to be of the same material as the pipe.

Rev 12 Changes: Increased "D" dimension in sizes 1" thru 2" by 0.5", in sizes 3" & 4" by 3/4", in size 6" by 1/4" and in size 8" by 1/8". No other changes.

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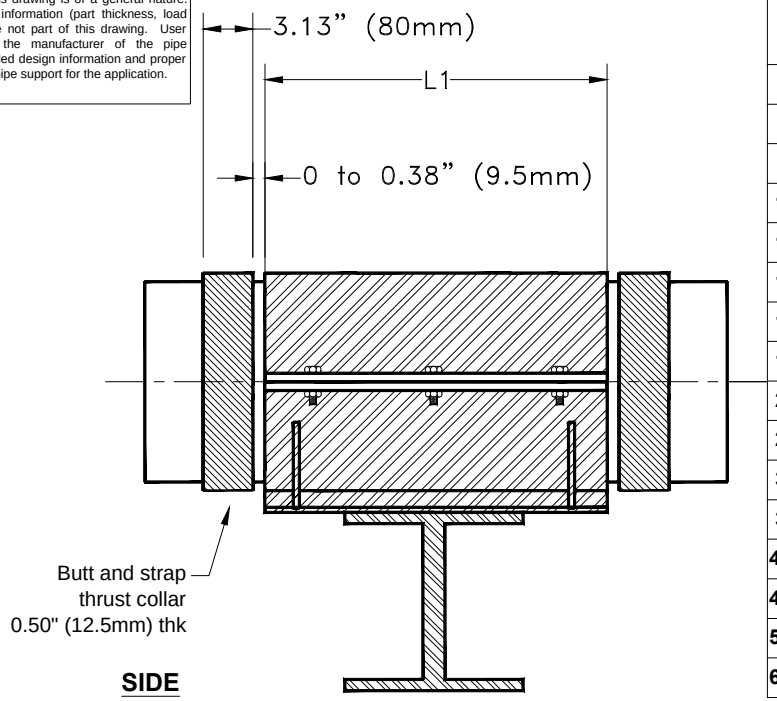
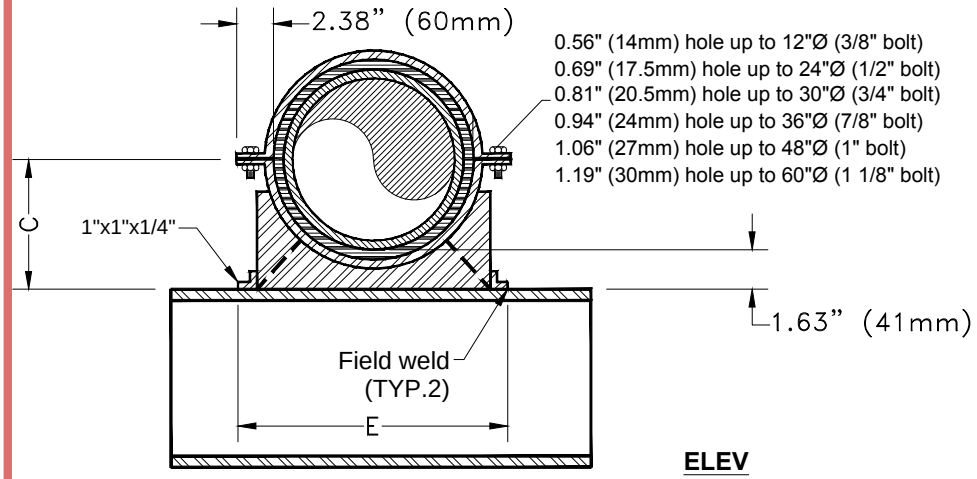
RUBBER COATED U-BOLT
FIG.226 - GENERAL DETAIL
REV:12

Information in this drawing is of a general nature. Detailed design information (part thickness, load ratings, etc.) are not part of this drawing. User should consult the manufacturer of the pipe support for detailed design information and proper selection of the pipe support for the application.



SIDE



ELEV

Nominal Pipe Size	Nominal O.D.		L1		C		E	
SERIES 20JF16, 20JF16-C								
6" (DN150)	7.26"	184mm	8"	203mm	5.26"	134mm	12.00"	305mm
8" (DN200)	9.26"	235mm	10"	254mm	6.26"	159mm	14.00"	356mm
10" (DN250)	11.26"	286mm	12"	305mm	7.26"	184mm	16.00"	406mm
12" (DN300)	13.26"	337mm	12"	305mm	8.26"	210mm	18.00"	458mm
14" (DN350)	15.59"	396mm	12"	305mm	9.42"	239mm	20.25"	514mm
16" (DN400)	17.75"	451mm	12"	305mm	10.50"	267mm	22.25"	565mm
18" (DN450)	19.89"	505mm	16"	406mm	11.57"	294mm	24.50"	622mm
20" (DN500)	22.03"	560mm	16"	406mm	12.64"	321mm	26.50"	673mm
24" (DN600)	26.33"	669mm	16"	406mm	14.79"	376mm	30.75"	781mm
30" (DN750)								
36" (DN900)								
42" (DN1050)								
48" (DN1200)								
54" (DN1350)								
60" (DN1500)								

NOTE 5. Average O.D. is typically 0.03" to 0.10" larger than the nominal O.D.
NOTE 4. C = 0.5 * Nominal O.D. + 1.63in.
NOTE 3. Steel saddle includes 1/8in. thick neoprene liner.
NOTE 2. 1.63in. (41mm) dimension is from T.O.S to B.O.P.
NOTE 1. Thrust collar may need to be larger depending upon design conditions.

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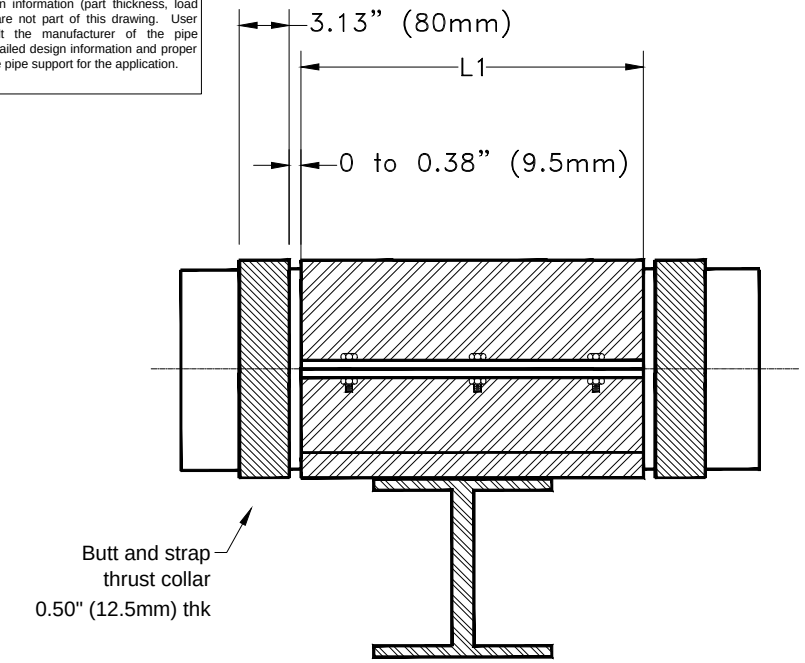
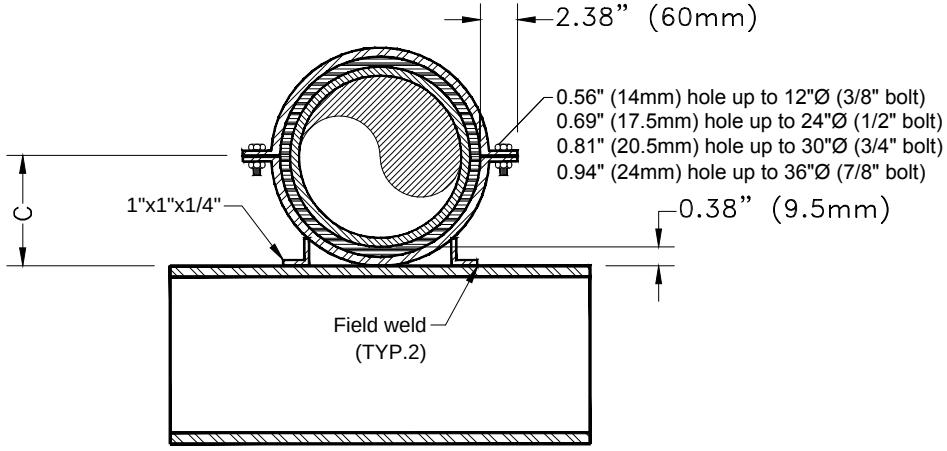
STEEL ANCHOR
FIG.230 - 20JF16

REV: 0

Information in this drawing is of a general nature. Detailed design information (part thickness, load ratings, etc.) are not part of this drawing. User should consult the manufacturer of the pipe support for detailed design information and proper selection of the pipe support for the application.



SIDE



ELEV

Nominal Pipe Size	Nominal O.D.		L1		C	
SERIES 20JF16, 20JF16-C						
2" (DN50)	3.26"	83mm	6"	152mm	2.01"	51mm
3" (DN80)	4.26"	108mm	6"	152mm	2.51"	64mm
4" (DN100)	5.26"	134mm	6"	152mm	3.01"	76mm
6" (DN150)	7.26"	184mm	8"	203mm	4.01"	102mm
8" (DN200)	9.26"	235mm	10"	254mm	5.01"	127mm
10" (DN250)	11.26"	286mm	12"	305mm	6.01"	152mm
12" (DN300)	13.26"	337mm	12"	305mm	7.01"	178mm
14" (DN350)	15.59"	396mm	12"	305mm	8.17"	207mm
16" (DN400)	17.75"	451mm	12"	305mm	9.25"	235mm
18" (DN450)	19.89"	505mm	16"	456mm	10.32"	262mm
20" (DN500)	22.03"	560mm	16"	456mm	11.39"	289mm
24" (DN600)	26.33"	669mm	16"	456mm	13.54"	344mm
30" (DN750)						
36" (DN900)						
42" (DN1050)						
48" (DN1200)						
54" (DN1350)						
60" (DN1500)						

NOTE 5. Average O.D. is typically 0.03" to 0.10" larger than the nominal O.D.
NOTE 4. C = 0.5 * Nominal O.D. + 0.38in.
NOTE 3. Steel saddle includes 1/8in. thick neoprene liner.
NOTE 2. 0.38in. (9.5mm) dimension is from T.O.S. to B.O.P.
NOTE 1. Thrust collar may need to be larger depending upon design conditions.

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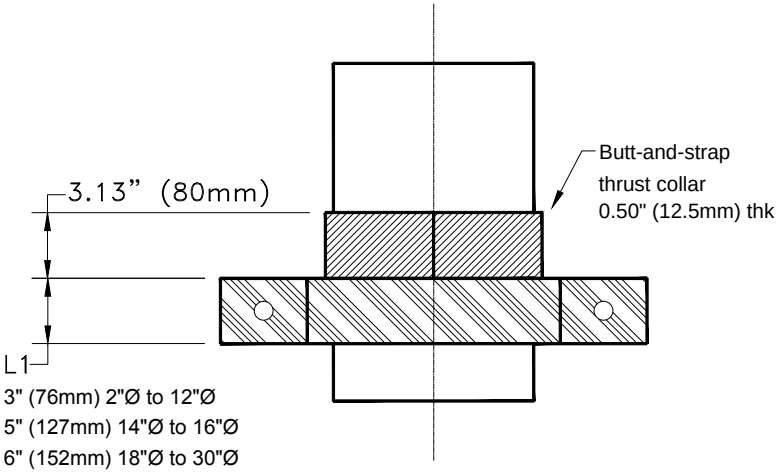
SMALL STEEL ANCHOR
FIG.232 - 20JF16

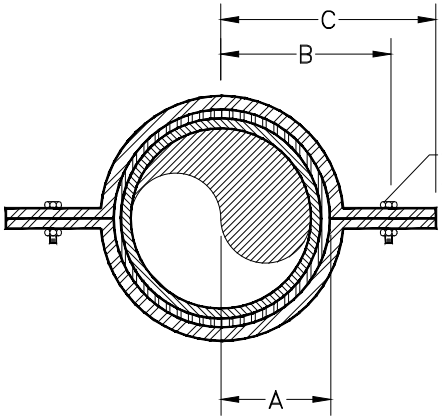
REV: 0

Information in this drawing is of a general nature. Detailed design information (part thickness, load ratings, etc.) are not part of this drawing. User should consult the manufacturer of the pipe support for detailed design information and proper selection of the pipe support for the application.



3" (76mm) 2"Ø to 12"Ø
5" (127mm) 14"Ø to 16"Ø
6" (152mm) 18"Ø to 30"Ø
8" (203mm) 36"Ø to 42"Ø
9" (229mm) 48"Ø to 60"Ø

ELEV



0.56" (14mm) hole up to 12"Ø (3/8" bolt)
0.69" (17.5mm) hole up to 24"Ø (1/2" bolt)

PLAN

Nominal Pipe Size	Nominal O.D.		A		B		C	
SERIES 20JF16, 20JF16-C								
2" (DN50)	3.26"	83mm	1.76"	45mm	3.38"	84mm	4.63"	118mm
3" (DN80)	4.26"	108mm	2.26"	57mm	3.88"	97mm	5.13"	130mm
4" (DN100)	5.26"	134mm	2.76"	70mm	4.38"	109mm	5.63"	143mm
6" (DN150)	7.26"	184mm	3.76"	95mm	5.38"	135mm	6.63"	168mm
8" (DN200)	9.26"	235mm	4.76"	121mm	6.38"	161mm	7.63"	194mm
10" (DN250)	11.26"	286mm	5.76"	146mm	7.38"	187mm	8.63"	219mm
12" (DN300)	13.26"	337mm	6.76"	172mm	8.38"	213mm	9.63"	245mm
14" (DN350)	15.59"	396mm	7.92"	201mm	9.54"	242mm	10.79"	274mm
16" (DN400)	17.75"	451mm	9.00"	229mm	10.62"	270mm	11.87"	301mm
18" (DN450)	19.89"	505mm	10.07"	256mm	11.69"	297mm	12.94"	329mm
20" (DN500)	22.03"	560mm	11.14"	283mm	12.76"	324mm	14.01"	356mm
24" (DN600)	26.33"	669mm	13.29"	338mm	14.91"	379mm	16.16"	410mm
30" (DN750)								
36" (DN900)								
42" (DN1050)								
48" (DN1200)								
54" (DN1350)								
60" (DN1500)								

NOTE 5. 'A' dimension is from pipe centerline to neoprene/steel interface.
NOTE 4. A = 0.5 * Nominal O.D. + 0.13in.
NOTE 3. B = 0.5 * Nominal O.D. + 1.75in.; C = B + 1.25in.
NOTE 2. Steel saddle includes 1/8in. thick neoprene liner.
NOTE 1. A separate bonded collar (two halves) may also be used.

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STEEL RISER CLAMP
FIG.240 - 20JF16

REV: 0

Information in this drawing is of a general nature. Detailed design information (part thickness, load ratings, etc.) are not part of this drawing. User should consult the manufacturer of the pipe support for detailed design information and proper selection of the pipe support for the application.

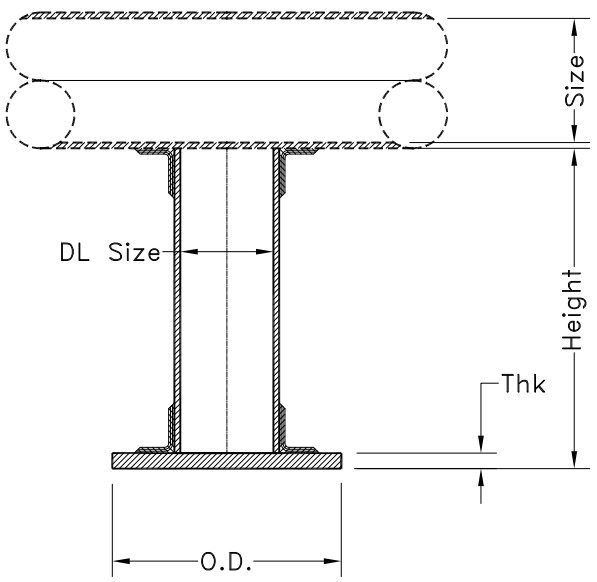

FIG.91 (shop fab'd to a tee or pipe)

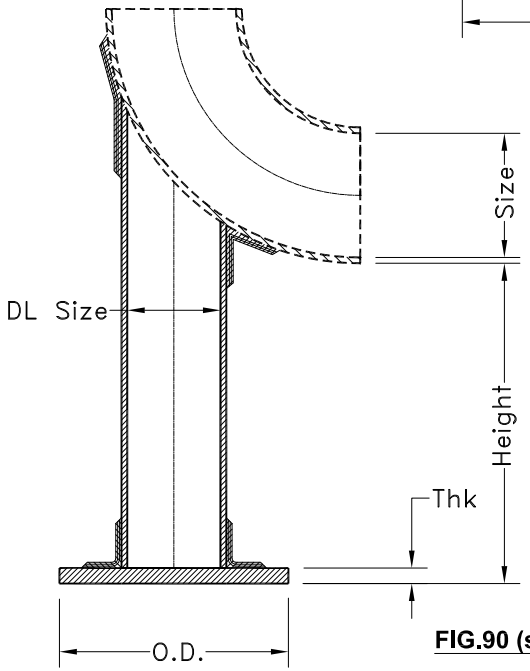

FIG.90 (shop fab'd to an elbow)

Nominal Pipe Size	DL Size	O.D.		Thk	
2" (DN50)	2"	5"	127mm	1/2"	12.5mm
3" (DN80)	2"	5"	127mm	1/2"	12.5mm
4" (DN100)	3"	6"	152mm	1/2"	12.5mm
5" (DN125)	3"	6"	152mm	1/2"	12.5mm
6" (DN150)	4"	7"	178mm	1/2"	12.5mm
8" (DN200)	6"	9"	229mm	1/2"	12.5mm
10" (DN250)	6"	9"	229mm	1/2"	12.5mm
12" (DN300)	8"	12"	305mm	1/2"	12.5mm
14" (DN350)	10"	14"	356mm	1/2"	12.5mm
16" (DN400)	12"	16"	406mm	1/2"	12.5mm
18" (DN450)	14"	18"	457mm	1/2"	12.5mm
20" (DN500)	18"	22"	559mm	1/2"	12.5mm
24" (DN600)	18"	22"	559mm	1/2"	12.5mm
30" (DN750)	24"	28"	711mm	3/4"	19mm
36" (DN900)	24"	28"	711mm	3/4"	19mm
42" (DN1050)	36"	40"	1016mm	3/4"	19mm
48" (DN1200)	36"	40"	1016mm	3/4"	19mm
54" (DN1350)	48"	52"	1321mm	3/4"	19mm
60" (DN1500)	48"	52"	1321mm	3/4"	19mm

NOTE 4. Fig.90 and Fig.91 are identical except Fig.91 is on a tee or pipe.
NOTE 3. Maximum recommended length of dummy leg is 3'-0" (914mm).
NOTE 2. Plate to be shipped loose and field installed. 6" of trim to be included.
NOTE 1. Dummy leg to be of the same material as the pipe.

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FRP "DUMMY LEG"
FIG.90 - GENERAL DETAIL
REV: 2