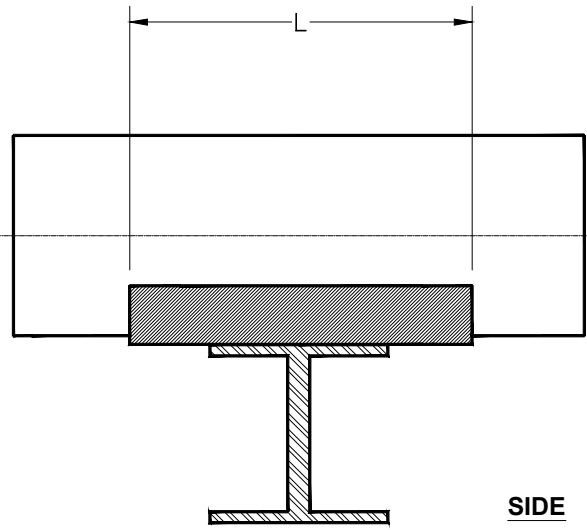
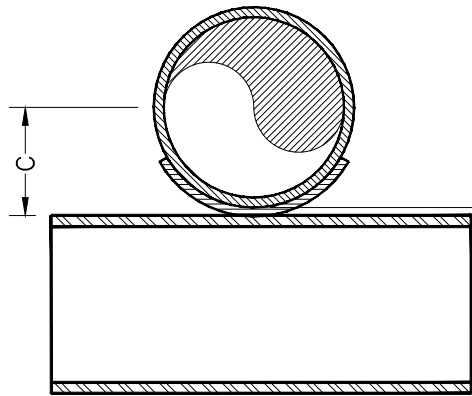


Information in this drawing is of a general nature. Detailed design information (part thickness, load ratings, etc.) are not part of this drawing. User should consult the manufacturer of the pipe support for detailed design information and proper selection of the pipe support for the application.



SIDE



ELEV

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

Nominal Pipe Size	Nominal O.D.		C		L		Minimum L		Weight (lb/kg)	
SERIES 20HV-D										
1" (DN25)	1.50"	38mm	1.00"	25mm	6"	152mm	4"	102mm	0.4	0.2
1.5" (DN40)	2.00"	51mm	1.25"	32mm	6"	152mm	4"	102mm	0.5	0.2
2" (DN50)	2.40"	61mm	1.45"	37mm	6"	152mm	4"	102mm	0.7	0.3
3" (DN80)	3.40"	86mm	1.95"	50mm	6"	152mm	4"	102mm	1.0	0.5
4" (DN100)	4.40"	112mm	2.45"	62mm	6"	152mm	4"	102mm	1.3	0.6
6" (DN150)	6.40"	163mm	3.45"	88mm	8"	203mm	4"	102mm	2.6	1.2
8" (DN200)	8.40"	213mm	4.45"	113mm	10"	254mm	4"	102mm	4.2	1.9
10" (DN250)	10.40"	264mm	5.45"	138mm	12"	305mm	4"	102mm	6.3	2.9
12" (DN300)	12.42"	315mm	6.46"	164mm	12"	305mm	4"	102mm	7.5	3.4
14" (DN350)	14.73"	374mm	7.62"	193mm	12"	305mm	4"	102mm	8.9	4.0
16" (DN400)	16.79"	426mm	8.65"	220mm	12"	305mm	4"	102mm	10.1	4.6
18" (DN450)	18.85"	479mm	9.69"	246mm	16"	406mm	6"	152mm	15.1	6.9
20" (DN500)	20.91"	531mm	10.72"	272mm	16"	406mm	6"	152mm	16.7	7.6
24" (DN600)	25.03"	636mm	12.78"	324mm	16"	406mm	6"	152mm	20.0	9.1
30" (DN750)										
36" (DN900)										
42" (DN1050)										
48" (DN1200)										
54" (DN1350)										
60" (DN1500)										

- NOTE 4. $C = 0.5 * \text{Nominal O.D.} + \text{Pad Thk}$ (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.

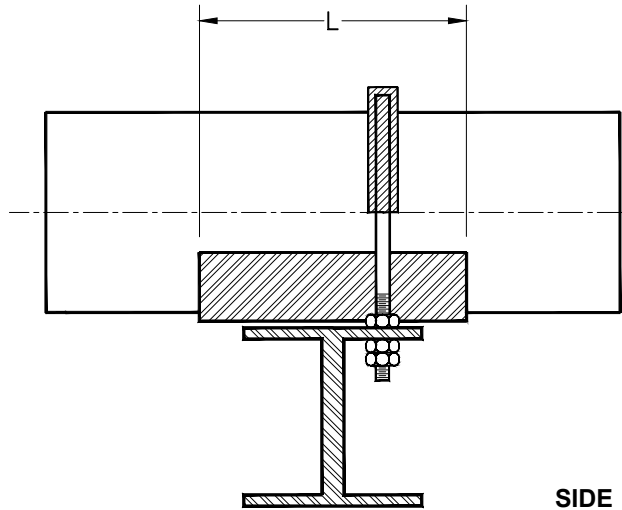
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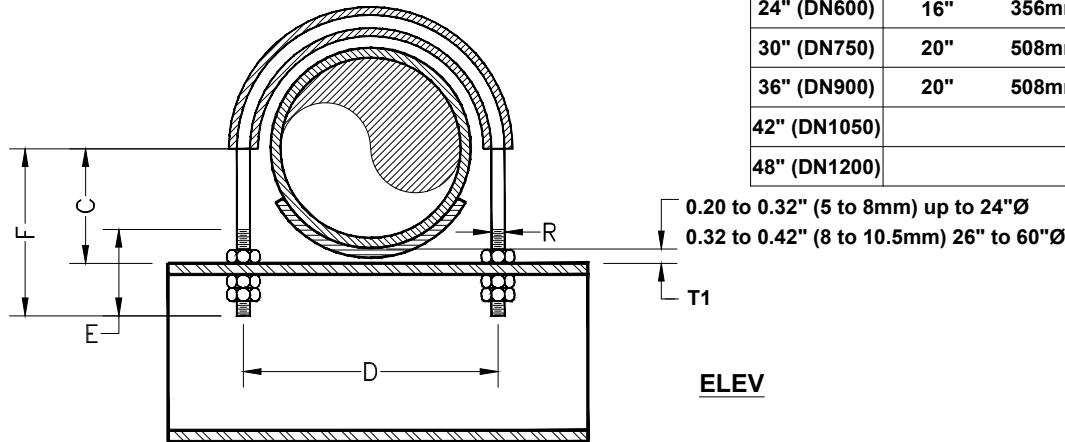
FRP "WEAR" PAD
 FIG.210 - 20HV-D

REV: 3

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	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)									

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

- 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 3/8", in size 6" by 1/4" and in size 8" by 1/8". No other changes.

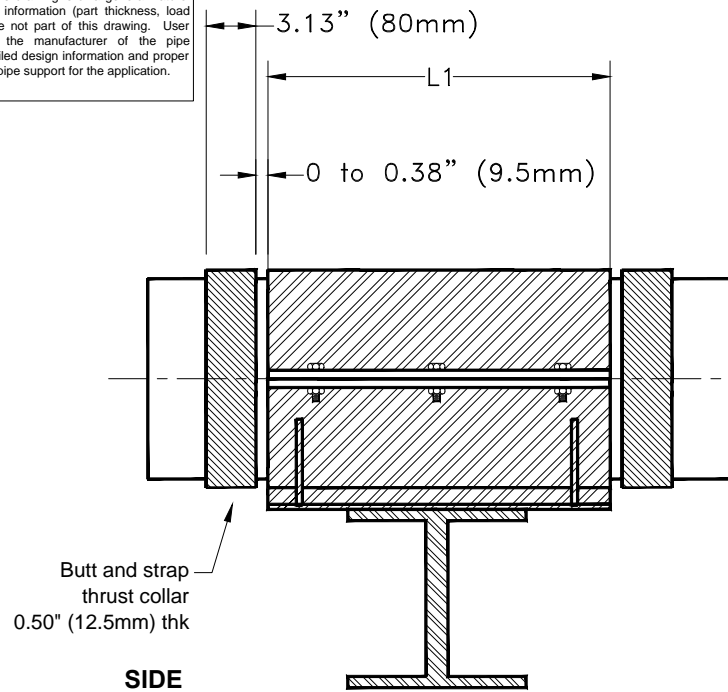
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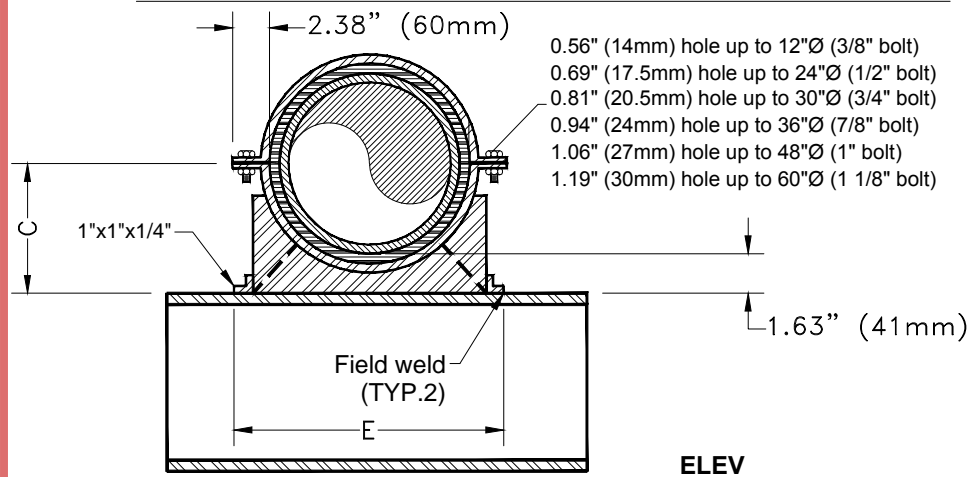
RUBBER COATED U-BOLT
FIG.226 - GENERAL DETAIL

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.



Nominal Pipe Size	Nominal O.D.		L1		C		E	
SERIES 20HV-D								
6" (DN150)	6.40"	163mm	8"	203mm	4.83"	123mm	12.00"	305mm
8" (DN200)	8.40"	213mm	10"	254mm	5.83"	148mm	14.00"	356mm
10" (DN250)	10.40"	264mm	12"	305mm	6.83"	173mm	16.00"	406mm
12" (DN300)	12.42"	315mm	12"	305mm	7.84"	199mm	18.00"	458mm
14" (DN350)	14.73"	374mm	12"	305mm	9.00"	229mm	20.25"	514mm
16" (DN400)	16.79"	426mm	12"	305mm	10.02"	254mm	22.25"	565mm
18" (DN450)	18.85"	479mm	16"	406mm	11.05"	281mm	24.50"	622mm
20" (DN500)	20.91"	531mm	16"	406mm	12.08"	307mm	26.50"	673mm
24" (DN600)	25.03"	636mm	16"	406mm	14.14"	359mm	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.

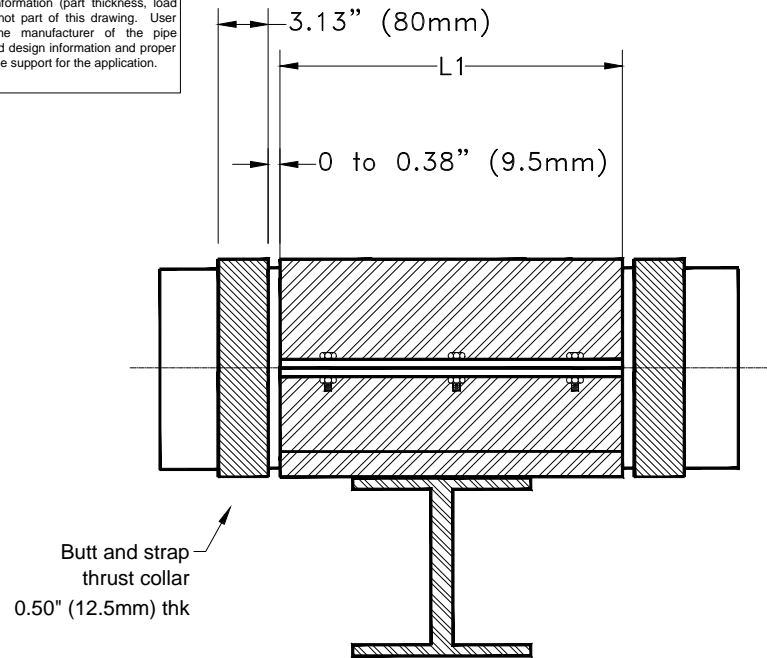
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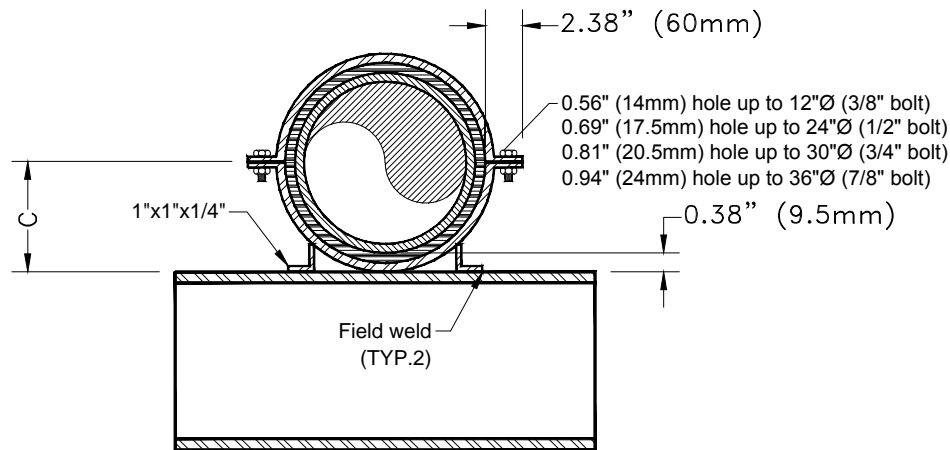
STEEL ANCHOR
 FIG.230 - 20HV-D

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



ELEV

- NOTE 5. Average O.D. is typically 0.03" to 0.10" larger than the nominal O.D.
 NOTE 4. $C = 0.5 * \text{Nominal O.D.} + 0.38\text{in.}$
 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.

Nominal Pipe Size	Nominal O.D.		L1		C	
SERIES 20HV-D						
2" (DN50)	2.40"	61mm	6"	152mm	1.58"	40mm
3" (DN80)	3.40"	86mm	6"	152mm	2.08"	53mm
4" (DN100)	4.40"	112mm	6"	152mm	2.58"	65mm
6" (DN150)	6.40"	163mm	8"	203mm	3.58"	91mm
8" (DN200)	8.40"	213mm	10"	254mm	4.58"	116mm
10" (DN250)	10.40"	264mm	12"	305mm	5.58"	142mm
12" (DN300)	12.42"	315mm	12"	305mm	6.59"	167mm
14" (DN350)	14.73"	374mm	12"	305mm	7.74"	197mm
16" (DN400)	16.79"	426mm	12"	305mm	8.77"	223mm
18" (DN450)	18.85"	479mm	16"	406mm	9.80"	249mm
20" (DN500)	20.91"	531mm	16"	406mm	10.83"	275mm
24" (DN600)	25.03"	636mm	16"	406mm	12.89"	327mm
30" (DN750)						
36" (DN900)						
42" (DN1050)						
48" (DN1200)						
54" (DN1350)						
60" (DN1500)						

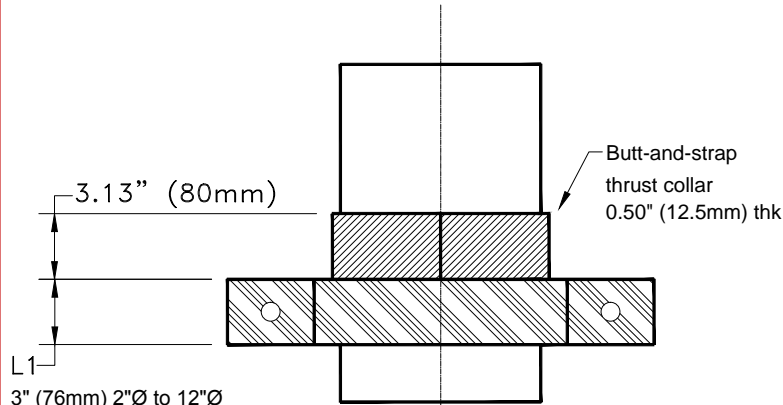
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SMALL STEEL ANCHOR
 FIG.232 - 20HV-D

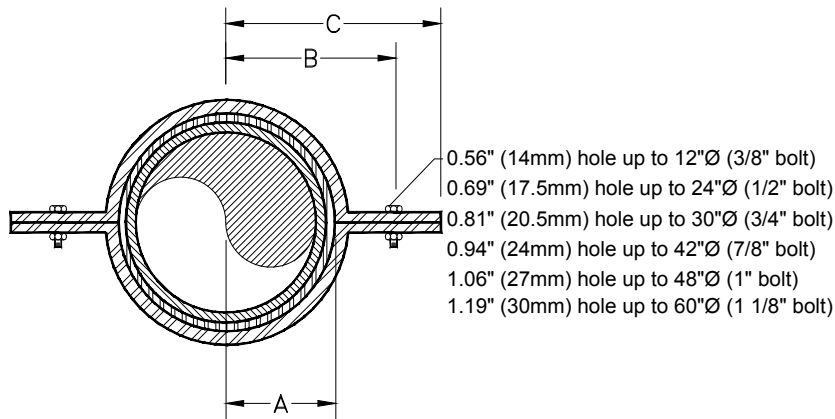
REV: 1

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.



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



PLAN

NOTE 5. 'A' dimension is from pipe centerline to neoprene/steel interface.

NOTE 4. $A = 0.5 * \text{Nominal O.D.} + 0.13\text{in.}$

NOTE 3. $B = 0.5 * \text{Nominal O.D.} + 1.75\text{in.}; C = B + 1.25\text{in.}$

NOTE 2. Steel saddle includes 1/8in. thick neoprene liner.

NOTE 1. A separate bonded collar (two halves) may also be used.

Nominal Pipe Size	Nominal O.D.		A		B		C	
SERIES 20HV-D								
2" (DN50)	2.40"	61mm	1.38"	35mm	2.95"	75mm	4.20"	107mm
3" (DN80)	3.40"	86mm	1.88"	48mm	3.45"	88mm	4.70"	119mm
4" (DN100)	4.40"	112mm	2.38"	60mm	3.95"	100mm	5.20"	132mm
6" (DN150)	6.40"	163mm	3.44"	88mm	4.95"	126mm	6.20"	157mm
8" (DN200)	8.40"	213mm	4.50"	114mm	5.95"	151mm	7.20"	183mm
10" (DN250)	10.40"	264mm	5.57"	141mm	6.95"	176mm	8.20"	208mm
12" (DN300)	12.42"	315mm	6.63"	168mm	7.96"	202mm	9.21"	234mm
14" (DN350)	14.73"	374mm	7.69"	195mm	9.11"	231mm	10.26"	261mm
16" (DN400)	16.79"	426mm	8.75"	222mm	10.14"	257mm	11.39"	289mm
18" (DN450)	18.85"	479mm	9.82"	249mm	11.17"	284mm	12.42"	315mm
20" (DN500)	20.91"	531mm	10.57"	268mm	12.20"	310mm	13.45"	342mm
24" (DN600)	25.03"	636mm	13.00"	330mm	14.26"	362mm	15.51"	394mm
30" (DN750)								
36" (DN900)								
42" (DN1050)								
48" (DN1200)								
54" (DN1350)								
60" (DN1500)								

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STEEL RISER CLAMP

FIG.240 - 20HV-D

REV: 0

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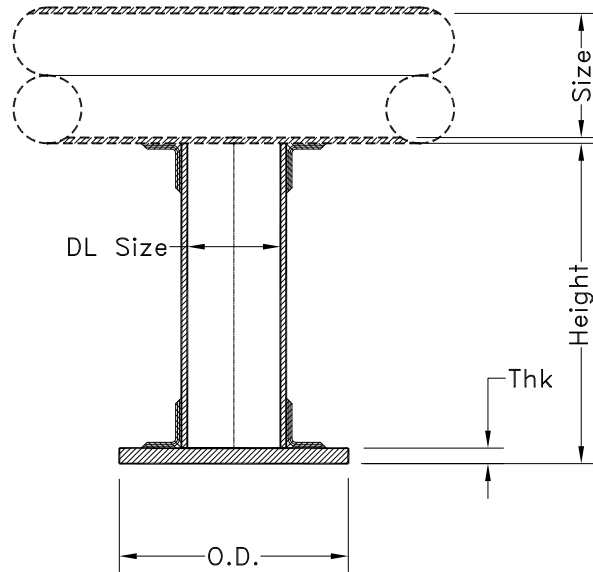


FIG.91 (shop fab'd to a tee or pipe)

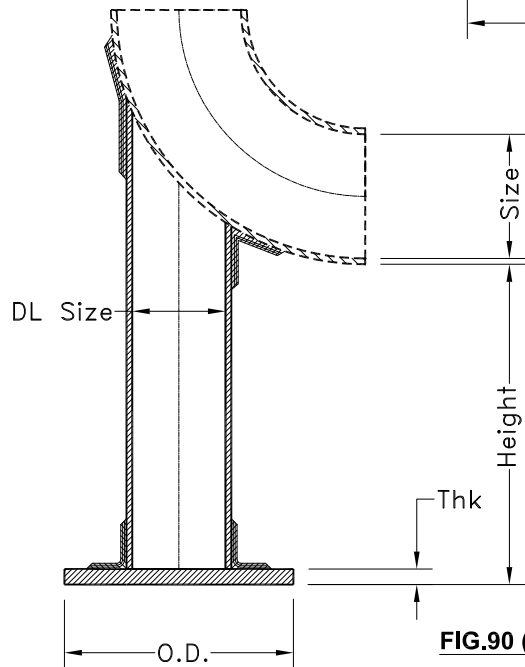


FIG.90 (shop fab'd to an elbow)

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