VECTOR TECHLOK® CLAMP CONNECTOR

TECHNICAL BROCHURE







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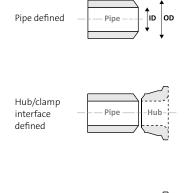
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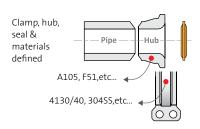
Selection procedure

Techlok Clamp Connectors are available in materials and sizes to suit every service requirement. If your particular pipe size, material or design conditions do not appear in this Technical Overview, please contact Vector International for special product assistance.

	EXAMPL	.E 1	EXAMP	LE 2							
1	Determine nominal pipe size, sch	nedule (or pipe OD / ID), Pip	pe material and operating pressu	re / temperature.							
	6" NB Sch XXS, A333Gr1 @ 5500	psi 300°F	16" NB x 32mm WT, UNS 31803	3 @ 320 Bar 100°C							
2	Select suitable hub/clamp size -	normally this would match	the nominal pipe size (ref. page	4, 6 and 7).							
	6in 6" SchXXS		L16in 16" x 32mm								
3	Select suitable sealring to match restricting the pipe bore (ref. pag		his would be the smallest sealring	g without							
	Select size 52 to suit bore of 4.89 6in52 6" XXS	7"	Select size 134 to suit bore of 34 16" x 32mm	12.4 mm L16in134							
4	Select hub material grade compa	atible with pipe material - ((ref. selection guide on page 9)								
	Select hub material grade compatible with pipe material - (ref. selection guide on page 9) Select A105 (option : A350 LF2 (Mod)) 6in52 6" XXS A105 Select A182 F51 L16in134 16" x 32mm F51										
5	Preliminary sizing complete - ch	neck pressure capacity (ref.	appropriate pressure temperatu	re tables)							
	6in52 A105 (ref. page 10) Pmax @ 300°F is 7148 psi (ACCE	PTABLE)	L16in134 F51 (ref. page 24) Pmax @ 100°C is 364 Bar (ACCE so bending capacity will be low)								
6	Check bending capacity using pr	ocedure (ref. page 9)									
7	If acceptable - sizing complete.										
	Final connector size: 6in52 6" X	XS A105	Final connector size : L16in134	16" x 32mm F51							
8	If pressure / bending is not acceptoth). Alternatively contact Vect		ng connector using a smaller seal ation. See notes 4 and 5	ring, or larger clamp (or							
	Alternative sizes 6in52 6" XXS A350LF2 (Mod) 6in46 6" XXS A105	Pmax @ 300°F 10324 psi (page 12) 9283 psi (page 10)	Alternative sizes L16in130 16" x 32mm F51 H16in134 16" x 32mm F51	Pmax @ 100°C 392 Bar (page 24) 687 Bar (page 25)							



Clamp, hub & seal defined



NOTES:

- 1) Pressure ratings are based upon seal bore (not pipe schedule) and are, therefore, conservative.

 2) Bending calculations are conservative and are intended as a guide only.

- 3) If bending calculation (ref. page 9) is acceptable no further action is required. If bending calculation (ref. page 9) is not acceptable - contact Vector for a more detailed analysis to justify selection.
- 5) Sealrings may be selected which restrict the bore of the pipe provided this is acceptable by the user. This may often occur at pipe specification breaks and valve interfaces a smaller sealring will always increase the strength of the connector. In all such cases the Techlok hub will be provided with a smooth taper transition together with the streamline bore seat pocket to minimize flow turbulence.

Vector Analysis

Vector Analysis is a proprietary software program used for quickly selecting and calculating reliable performance data for the Techlok Clamp Connector. Developed and expanded over a 20 year period to meet the increasing demands of clients and to support the full product range in-house (based on the requirements of ASME VIII Div.2 and ASME B31.3, Vector Analysis is included as part of the Type Approval award from Bureau Veritas).

This software is available to those design and piping engineers regularly working with, and specifying the Techlok product.

Vector Analysis allows the user to quickly select the full range of Techlok components compatible with general piping requirements. The data can be saved and manipulated to fit with piping specifications, prior to calculating load performance charts for each size of connector. Alternatively the data can be output into spreadsheet format for a concise summary of each piping class. Please contact Vector for further details.

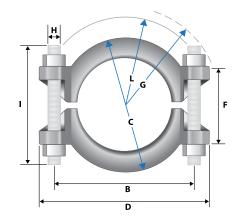
NOTE: Vector Analysis includes a selection of seal types including the low profile D seal - see page 31.

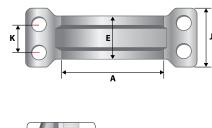




Techlok clamps are manufactured in low alloy steel (AISI 4130/4140), carbon steel (ASTM A266 Gr3) or stainless steel (ASTM A182 F304). Other material grades and additional sizes can be supplied on request. Low alloy steel clamps are supplied coated with an industrial paint system for standard supply (if required other coatings are available like: epoxy, hot dip galvanized, TSA). Clampsets are supplied complete with stud bolting in either A193 B7, A320 L7, or A193 B8 grades.

Bolting is supplied with UNC/8UN thread series complete with spherically faced heavy hex nuts. All bolt coating systems can be supplied to suit client preferences. Equivalent metric bolt sizes can be supplied as an option to the standard bolting upon request.







Standard Duty Series

Clamp Size		mp D A)	Cen	olt itres B)	O	imp D C)	Ler	erall igth D)		mp dth E)	Sepai	ıg ation	Cla Clea (0	rance	Bo Diam (H	neter		olt igth I)	Wi	Lug dth J)	Bo Pit (F	ch	Clea	mbly rance L)	Clam Wei (Not	•
	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	Lbs	Kg
1in	1.69	42.9	3.25	82.6	2.81	71.5	4.25	108.0	1.38	34.9	2.19	55.6	2.63	66.7	0.50	12.7	3.50	88.9	2.25	57.2	1.25	31.8	1.91	48.5	4.2	1.9
1-1/2in	2.69	68.2	5.00	127.0	4.50	114.3	6.50	165.1	2.00	50.8	3.25	82.6	4.00	101.6	0.63	15.9	5.00	127.0	3.13	79.4	1.63	41.3	3.02	76.7	9.9	4.5
2in	3.20	81.3	5.75	146.1	5.50	139.7	7.50	190.5	2.00	50.8	3.52	89.4	4.50	114.3	0.75	19.1	5.25	133.4	3.38	85.7	1.81	46.1	3.59	91.3	13.2	6.0
3in	4.38	111.1	7.50	190.5	6.88	174.6	9.25	235.0	2.38	60.3	4.60	116.8	5.25	133.4	0.75	19.1	6.50	165.1	3.38	85.7	1.81	46.1	4.63	117.6	23.6	10.7
4in	5.38	136.5	8.50	215.9	8.25	209.6	10.50	266.7	2.38	60.3	5.40	137.2	6.00	152.4	0.88	22.2	7.50	190.5	4.00	101.6	2.06	52.4	5.39	136.9	28.7	13.0
5in	6.88	174.6	10.25	260.4	9.88	250.8	12.38	314.3	3.13	79.4	6.13	155.6	7.25	184.2	1.00	25.4	8.25	209.6	4.50	114.3	2.31	58.8	6.38	162.2	41.0	18.6
6in	8.38	212.7	12.63	320.7	12.00	304.8	15.25	387.4	3.75	95.3	6.88	174.6	8.75	222.3	1.13	28.6	10.63	269.9	5.25	133.4	2.44	61.9	7.96	202.2	70.3	31.9
8in	10.63	269.9	15.25	387.4	14.50	368.3	18.50	469.9	3.75	95.3	7.88	200.0	9.88	250.8	1.25	31.8	12.00	304.8	5.75	146.1	2.88	73.0	9.39	238.4	110.2	50.0

Heavy Duty Series

Clamp Size	Cla II (A	o	Bo Cen (E	tres	Cla O (C	D	Ler	erall igth D)		mp dth E)	Lu Separ (I		Cla Cleai (C		Bo Diam (H	eter	Bo Len (Bolt Wid		Bo Pit (F	ch	Clea	mbly rance L)	We	npset ight te 2)
	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	Lbs	Kg
H2in	4.13	104.8	7.25	184.2	6.88	174.6	9.00	228.6	2.88	73.0	4.88	123.8	5.63	142.9	0.88	22.2	7.50	190.5	3.75	95.3	2.00	50.8	4.56	115.9	24.3	11.0
H3in	4.88	123.8	8.00	203.2	7.75	196.9	10.00	254.0	3.00	76.2	5.43	137.9	6.13	155.6	0.88	22.2	7.50	190.5	4.00	101.6	2.06	52.4	5.07	128.9	33.1	15.0
H4in	6.13	155.6	9.56	242.9	9.00	228.6	11.75	298.5	3.00	76.2	5.75	146.1	7.00	177.8	1.00	25.4	8.25	209.6	4.38	111.1	2.31	58.8	5.86	148.8	39.9	18.1
H8in	10.13	257.2	16.00	406.4	14.75	374.7	18.63	473.1	4.50	114.3	7.75	196.9	10.75	273.1	1.38	34.9	12.00	304.8	5.88	149.2	3.13	79.4	9.84	249.9	138.0	62.6
H10in	12.25	311.2	18.25	463.6	17.63	447.7	22.50	571.5	5.50	139.7	10.50	266.7	12.75	323.9	1.63	41.3	15.63	396.9	7.25	184.2	3.63	92.1	11.36	288.5	242.5	110.0
H12in	14.63	371.5	21.00	533.4	20.38	517.5	25.00	635.0	5.75	146.1	11.25	285.8	14.25	362.0	1.75	44.5	17.00	431.8	7.50	190.5	3.75	95.3	13.01	330.4	319.7	145.0
H14in	17.13	435.0	24.75	628.7	23.00	584.2	29.25	743.0	6.13	155.6	11.25	285.8	16.25	412.8	1.88	47.6	17.25	438.2	8.25	209.6	4.25	108.0	14.59	370.5	429.9	195.0
H16in	19.69	500.1	29.25	743.0	27.19	690.6	34.25	870.0	7.63	193.7	13.50	342.9	19.13	485.8	2.25	57.2	22.00	558.8	9.63	244.5	5.00	127.0	16.93	430.0	683.4	310.0
H18in	20.69	525.5	29.25	743.0	27.69	703.3	34.25	870.0	7.63	193.7	14.00	355.6	19.63	498.5	2.25	57.2	22.00	558.8	9.63	244.5	5.00	127.0	17.27	438.7	650.4	295.0
H20in	23.69	601.7	32.00	812.8	30.38	771.5	37.63	955.7	7.50	190.5	18.00	457.2	21.50	546.1	2.25	57.2	26.00	660.4	10.00	254.0	5.00	127.0	18.83	478.2	859.8	390.0
H22in	24.69	627.1	32.00	812.8	32.25	819.2	37.63	955.7	7.50	190.5	18.00	457.2	21.50	546.1	2.25	57.2	26.00	660.4	10.00	254.0	5.00	127.0	19.85	504.2	815.7	370.0
H24in	28.19	716.0	36.00	914.4	36.13	917.6	40.50	1028.7	7.00	177.8	19.40	492.8	23.75	603.3	2.25	57.2	27.00	685.8	10.50	266.7	5.00	127.0	22.08	560.9	1047.2	475.0
H26in	29.94	760.4	38.75	984.3	37.85	961.4	46.50	1181.1	8.00	203.2	19.60	497.8	27.00	685.8	2.50	63.5	28.00	711.2	10.50	266.7	5.50	139.7	23.08	586.3	1155.2	524.0

Light Duty Series

Clamp Size	Cla II (#		Bo Cen (E	tres	Cla O (C	D	Ove Len (E	gth		mp dth	Lu Separ (I		Cla Clear (C	ance		olt neter H)	Bo Len (I	gth	Bolt Wid	dth	Bo Pit (k	ch	Asse Clear (I		Wei	npset ight te 2)
	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	Lbs	Kg
L14in	16.38	415.9	22.25	565.2	21.50	546.1	26.00	660.4	5.00	127.0	10.88	276.2	14.75	374.7	1.63	41.3	17.00	431.8	7.38	187.5	3.63	92.1	13.25	336.6	275.6	125.0
L16in	18.63	473.1	24.00	609.6	23.50	596.9	27.75	704.9	5.00	127.0	13.00	330.2	16.25	412.8	1.75	44.5	19.50	495.3	7.63	193.8	3.88	98.4	14.45	367.1	308.6	140.0
L18in	20.88	530.2	25.75	654.1	26.00	660.4	29.50	749.3	5.00	127.0	14.38	365.1	17.50	444.5	1.88	47.6	21.50	546.1	8.00	203.2	4.13	104.8	15.89	403.6	352.7	160.0
L20in	23.63	600.1	28.31	719.2	29.38	746.1	32.25	819.2	5.00	127.0	17.13	435.0	19.50	495.3	2.00	50.8	24.75	628.7	8.50	215.9	4.38	111.1	17.73	450.4	418.9	190.0
L24in	28.31	719.2	34.25	870.0	34.75	882.7	38.88	987.4	6.25	158.8	18.38	466.7	22.50	571.5	2.25	57.2	27.00	685.8	9.50	241.3	5.00	127.0	21.39	543.4	661.4	300.0

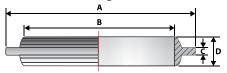
- NOTES:
- 1) Contact Vector for full clamp specification details.
- 2) Clampset weights are approximate and include standard boltset.

 3) Dimensions are approximate may be subject to changes without prior notice.



Techlok sealrings are available in the following standard material grades: AISI 4130/40, 630 SS (17/4PH), Super Duplex (F55) and Alloy 718. Other materials are also available (including F316, F44 and 660 SS) to suit particular client applications. Sealrings are supplied with either PTFE or MoS2 dry film lubrification to aid make-up. Both are suitable for general oilfield service; for service conditions above 230°C (450°F) use MoS2. Generally all Techlok sealrings are re-usable (except those manufactured from low strength material). In order to enhance re-usability, sealrings should be handled and stored with care, inspected for damage and interference (ref. Assembly Instructions - available on request) and the hub seats lubricated with MoS2 prior to re-use. The sealring should be discarded if there is any damage to the tapered seal surfaces.

All sealrings meet the hardness requirements of NACE MR-01-75 and have the material grade marked on the sealring rib as shown below.

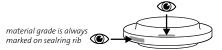


Sealring Dimensional and Weight Data

Sealring Size	Outs Diam (A	eter	Insi Diam (B	eter	Rib Thio		Ove Thick (D	ness	Sea We	ring ight	Sealring Size	Outs Diam (A	eter	Insi Diam (B	eter	Rib Thio		Ove Thick (D	ness		llring eight
	ins	mm	ins	mm	ins	mm	ins	mm	Lbs	Kg		ins	mm	ins	mm	ins	mm	ins	mm	Lbs	Kg
4	1.000	25.4	0.500	12.7	0.125	3.2	0.375	9.5	0.03	0.01	97	12.000	305	9.875	251	0.375	9.5	1.375	34.9	5.55	2.52
5	1.094	27.8	0.625	15.9	0.125	3.2	0.375	9.5	0.03	0.01	102	12.250	311	10.250	260	0.375	9.5	1.375	34.9	5.48	2.49
7	1.375	34.9	0.906	23.0	0.125	3.2	0.375	9.5	0.04	0.02	106	12.750	324	10.750	273	0.375	9.5	1.375	34.9	5.72	2.59
8	1.625	41.3	1.000	25.4	0.125	3.2	0.375	9.5	0.04	0.02	112	14.125	359	11.250	286	0.625	15.9	1.625	41.3	12.33	5.59
11	1.750	44.5	1.125	28.6	0.125	3.2	0.375	9.5	0.06	0.03	116	14.125	359	11.750	298	0.375	9.5	1.375	34.9	7.21	3.27
13	2.375	60.3	1.500	38.1	0.125	3.2	0.375	9.5	0.11	0.05	120	13.875	352	12.000	305	0.375	9.5	1.375	34.9	6.04	2.74
14	2.625	66.7	1.609	40.9	0.250	6.4	0.563	14.3	0.28	0.13	122	14.125	359	12.250	311	0.375	9.5	1.375	34.9	6.16	2.79
16	2.750	69.9	1.868	47.4	0.250	6.4	0.625	15.9	0.28	0.13	124	14.625	371	12.500	318	0.375	9.5	1.375	34.9	7.10	3.22
20	3.250	82.6	2.063	52.4	0.250	6.4	0.750	19.1	0.45	0.20	130	15.000	381	13.000	330	0.500	12.7	1.500	38.1	8.47	3.84
23	3.500	88.9	2.375	60.3	0.250	6.4	0.750	19.1	0.48	0.22	134	15.500	394	13.500	343	0.500	12.7	1.500	38.1	8.78	3.98
25	4.000	102	2.672	67.9	0.250	6.4	0.750	19.1	0.62	0.28	137	16.500	419	13.875	352	0.625	15.9	1.625	41.3	13.70	6.21
27	4.250	108	3.063	77.8	0.250	6.4	0.750	19.1	0.62	0.28	140	16.500	419	14.000	356	0.500	12.7	1.500	38.1	10.98	4.98
31	4.500	114	3.250	82.6	0.250	6.4	0.750	19.1	0.69	0.31	144	17.000	432	14.500	368	0.500	12.7	1.500	38.1	11.35	5.15
34	5.000	127	3.688	93.7	0.250	6.4	0.750	19.1	0.80	0.36	152	17.750	451	15.250	387	0.500	12.7	1.500	38.1	11.89	5.39
40	5.500	140	4.063	103	0.250	6.4	1.000	25.4	1.13	0.51	160	18.500	470	16.000	406	0.500	12.7	1.500	38.1	12.44	5.64
42	6.375	162	4.188	106	0.250	6.4	1.000	25.4	1.68	0.76	170	19.438	494	17.000	432	0.500	12.7	1.750	44.5	13.84	6.28
46	6.250	159	4.750	121	0.250	6.4	1.000	25.4	1.34	0.61	180	20.500	521	18.000	457	0.500	12.7	1.750	44.5	14.61	6.63
52	6.625	168	5.313	135	0.250	6.4	1.000	25.4	1.33	0.60	185	21.250	540	18.625	473	0.500	12.7	1.750	44.5	16.37	7.43
54	6.812	173	5.500	140	0.250	6.4	1.000	25.4	1.57	0.71	192	22.000	559	19.250	489	0.500	12.7	1.750	44.5	17.16	7.78
56	7.500	191	5.750	146	0.250	6.4	1.000	25.4	1.82	0.83	200	22.750	578	20.000	508	0.500	12.7	1.750	44.5	17.80	8.07
62	7.875	200	6.065	154	0.375	9.5	1.375	34.9	3.13	1.42	210	24.000	610	21.000	533	0.500	12.7	2.000	50.8	21.36	9.69
64	8.625	219	6.500	165	0.375	9.5	1.375	34.9	3.80	1.72	220	25.000	635	22.000	559	0.500	12.7	2.000	50.8	22.32	10.12
67	8.750	222	6.875	175	0.375	9.5	1.375	34.9	3.61	1.64	225	25.750	654	22.625	575	0.500	12.7	2.000	50.8	24.19	10.97
72	9.500	241	7.250	184	0.375	9.5	1.375	34.9	4.40	2.00	232	26.375	670	23.250	591	0.500	12.7	2.000	50.8	24.29	11.02
76	10.000	254	7.750	197	0.375	9.5	1.375	34.9	4.67	2.12	240	27.500	699	24.000	610	0.500	12.7	2.000	50.8	27.42	12.44
82	10.125	257	8.250	210	0.375	9.5	1.375	34.9	4.26	1.93	244	27.750	705	24.500	622	0.500	12.7	2.000	50.8	26.34	11.95
84	11.125	283	8.500	216	0.375	9.5	1.375	34.9	5.79	2.63	254	28.875	733	25.500	648	0.500	12.7	2.000	50.8	28.20	12.79
87	11.375	289	8.875	225	0.375	9.5	1.375	34.9	5.77	2.62	264	30.000	762	26.500	673	0.500	12.7	2.000	50.8	30.12	13.66
91	11.500	292	9.125	232	0.375	9.5	1.375	34.9	5.66	2.57	274	31.125	791	27.500	699	0.500	12.7	2.000	50.8	32.31	14.66
92	11.625	295	9.250	235	0.375	9.5	1.375	34.9	5.78	2.62	284	32.250	819	28.500	724	0.500	12.7	2.000	50.8	34.36	15.59
94	11.750	298	9.500	241	0.375	9.5	1.375	34.9	5.61	2.54	292	32.250	819	29.250	743	0.500	12.7	2.000	50.8	29.30	13.29

NOTES: Techlok sealrings are available as intermediate sizes to suit specific applications. Larger sizes up to 2 meters inside diameter are also available. Other Techlok sealring types are available such as: Blind sealrings, Orifice sealrings, Contingency sealrings (Dur-O-Seal), Strainer sealrings, etc... See page 31 or contact Vector for full details of sealring range.

Sealring Material Guidelines (recommendations only, does not over-rule client specifications)



Sealring Material Ty	/pe	Low Alloy	Stainless	6 Mo Stainless	High Strength Stainless	Duplex & Superduplex	Nickel Alloy
Grade marked on sea	lring rib	AISI 4130 AISI 4140	A182 F316	A182 F44	A564 630 (17/4 PH)	A182 F51 A182 F55	Alloy 718, 625 X 750
HUB MATERIAL	MARKING DATA (Material Grade)						
Carbon / Low alloy steel	A694 F52, F60, F65, A350 LF2	•	(6)	(6)	(2)	(6)	(6)
Carbon / Low alloy + inlay	as above + 625	•	•	(6)	•	(6)	•
Stainless Steel	A182 F316, F304, F321	•	•	•	•	(5)	•
	A182 F44 (6Mo)	•	(1)	•	(2,3,4)	(5)	•
Duplex + S.Duplex	A182 F51, F53, F55, F61	•	(1)	•	(2,3)	•	•
Nickel Alloy	Alloy 625, 800, 825	•	•	(6)	•	•	•

- STOP: Avoid this material selection!
- USE WITH CAUTION : Check specification or seek metallurgical advice (see notes)
- GO: Good material selection

- NOTES:
- 1. Corrosion resistance lower than Hub
- 4. Not recommended for cryogenic service below -100°C 2. Not recommended for sour service 5. Not recommended for service below -50°C
- 3. Not recommended for produced or injected seawater 6. For H₂S service refer to NACE MR0175



Techlok hubs are made from the same generic material as the piping system they connect. The Techlok standard materials are A350 LF2 (modified), A182 F316, A182 F51 (UNS S31803) and A182 F55 (UNS S32760), but the hubs can be manufactured from almost any machinable metal, typically carbon steels, stainless steels, duplex steels, nickel alloys and titanium as well as other materials. All hubs are provided with suitable corrosive protection and protective caps on seat area. The welding bevel is fully toleranced in accordance with ANSI B16.5 as standard. Other weld preps (i.e. J preps) can be supplied on request. Carbon, Low alloy and Duplex grades can be supplied with Alloy 625 weld cladding (seat and bore) or overlay (seat only) for severe corrosion applications.

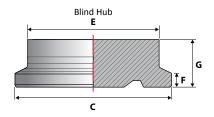
Standard Duty Series

N.P.S. O. Dia (A)	(DN)	Pipe Schedule	Techlok Designation Hub / S Ring	Pipe I Dian (E		Hub O Diam (C	eter	Hub L	ength	Hub As Len (D	_	Back Diam (E	eter	ļ .	ckness F)	Thic	ind kness G)	Sealrir	·	BW I Wei		Blind Wei	
ins	(mm)			ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	Lbs	Kg	Lbs	Kg
1/2" 0.840	(DN 15) (21.3)	Std 40 40S XS 80 80S 160 XXS	1in/5 1in/5 1in/4 1in/4	0.622 0.546 0.466 0.252	15.8 13.9 11.8 6.4	2.000 2.000 2.000 2.000	50.8 50.8 50.8 50.8	1.750 1.750 1.750 1.750	44.5 44.5 44.5 44.5	1.813 1.813 1.813 1.813	46.0 46.0 46.0 46.0	1.500 1.500 1.500 1.500	38.1 38.1 38.1 38.1	0.313 0.313 0.313 0.313	8.0 8.0 8.0 8.0	1.313 1.313 1.313 1.313	33.4 33.4 33.4 33.4	0.125 0.125 0.125 0.125	3.2 3.2 3.2 3.2	0.6 0.6 0.6 0.7	0.3 0.3 0.3 0.3	0.8 0.8 0.8 0.8	0.4 0.4 0.4 0.4
3/4" 1.050	(DN 20) (26.7)	Std 40 40S XS 80 80S 160 XXS	1in/7 1in/7 1in/5 1in/4	0.824 0.742 0.614 0.434	20.9 18.8 15.6 11.0	2.000 2.000 2.000 2.000	50.8 50.8 50.8 50.8	1.750 1.750 1.750 1.750	44.5 44.5 44.5 44.5	1.813 1.813 1.813 1.813	46.0 46.0 46.0 46.0	1.500 1.500 1.500 1.500	38.1 38.1 38.1 38.1	0.313 0.313 0.313 0.313	8.0 8.0 8.0 8.0	1.313 1.313 1.313 1.313	33.4 33.4 33.4 33.4	0.125 0.125 0.125 0.125	3.2 3.2 3.2 3.2	0.5 0.6 0.7 0.7	0.2 0.3 0.3 0.3	0.8 0.8 0.8 0.8	0.4 0.4 0.4 0.4
1" 1.315	(DN 25) (33.4)	Std 40 40S XS 80 80S 160 XXS	1in/11 1in/11 1in/7 1in/5	1.049 0.957 0.815 0.599	26.5 24.3 20.7 15.2	2.000 2.000 2.000 2.000	50.8 50.8 50.8 50.8	1.750 1.750 1.750 1.750	44.5 44.5 44.5 44.5	1.813 1.813 1.813 1.813	46.0 46.0 46.0 46.0	1.500 1.500 1.500 1.500	38.1 38.1 38.1 38.1	0.313 0.313 0.313 0.313	8.0 8.0 8.0 8.0	1.313 1.313 1.313 1.313	33.4 33.4 33.4 33.4	0.125 0.125 0.125 0.125	3.2 3.2 3.2 3.2	0.5 0.5 0.6 0.7	0.2 0.2 0.3 0.3	0.8 0.8 0.8 0.8	0.4 0.4 0.4 0.4
1-1/2" 1.900	(DN 40) (48.3)	Std 40 40S XS 80 80S 160 XXS	1-1/2in/14 1-1/2in/13 1-1/2in/13 1-1/2in/11	1.610 1.500 1.338 1.100	40.9 38.1 34.0 27.9	3.125 3.125 3.125 3.125	79.4 79.4 79.4 79.4	2.375 2.375 2.375 2.375	60.3 60.3 60.3	2.500 2.438 2.438 2.438	63.5 61.9 61.9 61.9	2.375 2.375 2.375 2.375	60.3 60.3 60.3	0.437 0.500 0.500 0.500	11.1 12.7 12.7 12.7	1.625 1.625 1.625 1.625	41.3 41.3 41.3 41.3	0.250 0.125 0.125 0.125	6.4 3.2 3.2 3.2	1.6 1.9 2.0 2.4	0.7 0.8 0.9 1.1	2.5 2.6 2.6 2.6	1.1 1.2 1.2 1.2
2" 2.375	(DN 50) (60.3)	Std 40 40S XS 80 80S 160 XXS	2in/20 2in/20 2in/16 2in/14	2.067 1.939 1.689 1.503	52.5 49.3 42.9 38.2	3.625 3.625 3.625 3.625	92.1 92.1 92.1 92.1	2.750 2.750 2.750 2.750	69.9 69.9 69.9 69.9	2.875 2.875 2.875 2.875	73.0 73.0 73.0 73.0	2.875 2.875 2.875 2.875	73.0 73.0 73.0 73.0	0.437 0.437 0.437 0.437	11.1 11.1 11.1 11.1	1.750 1.750 1.750 1.750	44.5 44.5 44.5 44.5	0.250 0.250 0.250 0.250	6.4 6.4 6.4 6.4	2.2 2.5 3.0 3.4	1.0 1.1 1.4 1.5	3.7 3.7 3.8 3.8	1.7 1.7 1.7 1.7
3" 3.500	(DN 75) (88.9)	Std 40 40S XS 80 80S 160 XXS	3in/27 3in/27 3in/25 3in/23	3.068 2.900 2.624 2.300	77.9 73.7 66.6 58.4	5.000 5.000	127.0 127.0 127.0 127.0	3.250 3.250 3.250 3.250	82.6 82.6 82.6 82.6	3.375 3.375 3.375 3.375	85.7 85.7 85.7 85.7	4.000 4.000	101.6 101.6 101.6 101.6	0.500 0.500 0.500 0.500	12.7 12.7 12.7 12.7	1.875 1.875 1.875 1.875	47.6 47.6 47.6 47.6	0.250 0.250 0.250 0.250	6.4 6.4 6.4 6.4	4.7 5.2 6.3 7.4	2.1 2.4 2.9 3.3	7.8 7.8 7.8 7.8	3.5 3.5 3.5 3.6
4" 4.500	(DN 100) (114.3)	Std 40 40S XS 80 80S 120 160	4in/40 4in/40 4in/34 4in/34	4.026 3.826 3.624 3.438	102.3 97.2 92.0 87.3	6.000 6.000 6.000	152.4 152.4 152.4 152.4	3.625 3.625 3.625 3.625	92.1 92.1 92.1 92.1	3.750 3.750 3.750 3.750	95.3 95.3 95.3 95.3	5.000 5.000 5.000	127.0 127.0 127.0 127.0	0.500 0.500 0.500 0.500	12.7 12.7 12.7 12.7	2.125 2.125 2.125 2.125 2.125	54.0 54.0 54.0 54.0	0.250 0.250 0.250 0.250 0.250	6.4 6.4 6.4 6.4	6.7 7.7 9.2 10.0	3.1 3.5 4.2 4.5	13.1 13.1 13.2 13.2	5.9 5.9 6.0 6.0
5" 5.563	(DN 125) (141.3)	XXS Std 40 40S XS 80 80S 120 160	4in/31 5in/52 5in/52 5in/46 5in/46	3.152 5.047 4.813 4.563 4.313	80.1 128.2 122.3 115.9 109.6	6.000 7.500 7.500 7.500 7.500	152.4 190.5 190.5 190.5 190.5	3.625 4.375 4.375 4.375 4.375	92.1 111.1 111.1 111.1 111.1	3.750 4.500 4.500 4.500 4.500	95.3 114.3 114.3 114.3 114.3	5.000 6.500 6.500 6.500 6.500	127.0 165.1 165.1 165.1 165.1	0.500 0.625 0.625 0.625 0.625	12.7 15.9 15.9 15.9 15.9	2.125 2.750 2.750 2.750 2.750 2.750	54.0 69.9 69.9 69.9	0.250 0.250 0.250 0.250 0.250	6.4 6.4 6.4 6.4	11.5 13.3 14.8 17.8 19.2	5.2 6.0 6.7 8.1 8.7	13.2 27.8 27.8 27.8 27.8	6.0 12.6 12.6 12.6 12.6
6" 6.625	(DN 150) (168.3)	XXS Std 40 40S XS 80 80S 120 160	5in/40 6in/62 6in/56 6in/54 6in/52	4.063 6.065 5.761 5.501 5.189	103.2 154.1 146.3 139.7 131.8	9.250 9.250 9.250 9.250	190.5 235.0 235.0 235.0 235.0	4.375 4.625 4.625 4.625 4.625	111.1 117.5 117.5 117.5 117.5	4.813 4.750 4.750 4.750	120.7	7.750 7.750 7.750 7.750	165.1 196.9 196.9 196.9	0.625 0.750 0.812 0.812 0.812	15.9 19.1 20.6 20.6 20.6	2.750 2.875 2.875 2.875 2.875 2.875	69.9 73.0 73.0 73.0 73.0	0.250 0.375 0.250 0.250 0.250	6.4 9.5 6.4 6.4	21.9 20.4 24.9 27.7 30.7	9.9 9.2 11.3 12.6 13.9	27.9 43.0 43.6 43.6 43.6	12.6 19.5 19.8 19.8 19.8
8"	(DN 200)	23.8 mm 31 mm 32.5 mm Std 40 40S	6in/52 6in/46 6in/42 6in/40 8in/82	4.897 4.750 4.188 4.060 7.981	124.4 120.7 106.4 103.1 202.7	9.250 9.250	235.0 235.0 235.0 235.0 292.1	4.625 4.625 4.625 4.625 5.375	117.5 117.5 117.5 117.5 136.5	4.750 4.750 4.750	120.7 120.7 120.7 120.7 141.3	7.750 7.750	196.9 196.9 196.9 196.9 254.0	0.812 0.812 0.812 0.812 0.750	20.6 20.6 20.6 20.6 19.1	2.875 2.875 2.875 2.875 2.875 3.188	73.0 73.0 73.0 73.0 81.0	0.250 0.250 0.250 0.250 0.375	6.4 6.4 6.4 9.5	32.7 34.8 39.2 40.0 33.0	14.8 15.8 17.8 18.2 15.0	43.6 43.7 43.7 43.7 76.7	19.8 19.8 19.8 19.8 34.8
8.625	(219.1)	XS 80 80S 100 120 140 XXS	8in/76 8in/76 8in/72 8in/72 8in/67	7.625 7.439 7.189 7.001 6.875	193.7 189.0 182.6 177.8 174.6	11.500 11.500 11.500 11.500 11.500	292.1 292.1 292.1 292.1 292.1	5.375 5.375 5.375 5.375 5.375	136.5 136.5 136.5 136.5 136.5	5.563 5.563 5.563 5.563 5.563	141.3 141.3 141.3 141.3 141.3	10.000 10.000 10.000 10.000 10.000	254.0 254.0 254.0 254.0 254.0	0.750 0.750 0.750 0.750 0.750	19.1 19.1 19.1 19.1 19.1	3.188 3.188 3.188 3.188 3.188	81.0 81.0 81.0 81.0 81.0	0.375 0.375 0.375 0.375 0.375	9.5 9.5 9.5 9.5 9.5	40.3 42.4 47.8 49.9 52.9	18.3 19.2 21.7 22.6 24.0	76.7 76.7 76.7 76.7 76.8	34.8 34.8 34.8 34.8 34.8
		160 32.6 mm	8in/67 8in/62	6.813 6.060	173.1 153.9	11.500 11.500		5.375 5.375	136.5 136.5		141.3 141.3	10.000 10.000		0.750 0.750	19.1 19.1	3.188 3.188	81.0 81.0	0.375 0.375	9.5 9.5	53.6 63.9	24.3 29.0	76.8 76.9	34.8 34.9

Light Duty Series

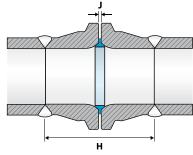
N.P.S. O. Dia (A)	(DN)	Pipe Schedule	Techlok Designation Hub / S Ring	Pipe I Diam (B	eter	Hub O Diam (C	eter	Hub L (C	ŭ	Hub Ass Len (D	gth	Back Diam (E	eter	Lip Thi (F		Bli Thick (C	ness	Sealrin (J		BW Wei		Blind Wei	
ins	(mm)			ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	Lbs	Kg	Lbs	Kg
14"	(DN 350)	40	L14in/134	13.124	333.3	17.250	438.2	5.000	127.0	5.250	133.4	15.750	400.1	0.750	19.1	3.500	88.9	0.500	12.7	66.4	30.1	201.8	91.5
14.000	(355.6)	XS	L14in/130	13.000		17.250		5.000	127.0	5.250	133.4	15.750		0.750	19.1	3.500	88.9	0.500	12.7	73.2	33.2	201.9	91.6
		80	L14in/124	12.500		17.250		5.000	127.0		131.8	15.750		0.812	20.6	3.500	88.9	0.375	9.5	86.6	39.3	202.6	91.9
		100	L14in/124	12.124		17.250		5.000	127.0		131.8	15.750		0.812	20.6	3.500	88.9	0.375	9.5	92.5	42.0	202.6	91.9
		120	L14in/120	11.814		17.250		5.000	127.0		131.8	15.750		0.812	20.6	3.500	88.9	0.375	9.5	102.3	46.4	202.7	91.9
		140	L14in/116	11.500		17.250		5.000	127.0		131.8	15.750		0.812	20.6	3.500	88.9	0.375	9.5	108.5	49.2	202.7	91.9
1.01	(DAL 400)	160	L14in/112	11.188		17.250		5.000	127.0		134.9	15.750		0.687	17.4	3.500	88.9	0.625	15.9	115.4	52.3	201.3	91.3
16" 16.000	(DN 400)	XS 40	L16in/152	15.000 14.688		19.500 19.500		5.500	139.7 139.7		146.1 146.1	18.000		0.750 0.750	19.1 19.1	3.750 3.750	95.3	0.500 0.500	12.7 12.7	94.2 100.8	42.7 45.7	280.1	127.1 127.1
16.000	(406.4)	60 80	L16in/152 L16in/144	14.888		19.500		5.500 5.500	139.7		146.1	18.000 18.000		0.750	19.1	3.750	95.3 95.3	0.500	12.7	117.8	43.7 53.5	280.1 280.2	127.1
		100	L16in/144	13.938		19.500		5.500	139.7		146.1	18.000		0.750	19.1	3.750	95.3 95.3	0.500	12.7	130.7	59.3	280.2	127.1
		120	L16in/137	13.564		19.500		5.500	139.7	5.813		18.000		0.687	17.4	3.750	95.3	0.625	15.9	138.6	62.9	279.5	126.8
		140	L16in/134	13.124		19.500		5.500	139.7		146.1	18.000		0.750	19.1	3.750	95.3	0.500	12.7	151.0	68.5	280.3	127.1
		160	L16in/130	12.812		19.500		5.500	139.7		146.1	18.000		0.750	19.1	3.750	95.3	0.500	12.7	161.1	73.1	280.3	127.2
18"	(DN 450)	40	L18in/170	16.876		21.750		6.000	152.4		158.8	20.250		0.750	19.1	4.000	101.6	0.500	12.7	125.2	56.8	375.0	170.1
18.000	(457.2)	60	L18in/170	16.500		21.750		6.000	152.4	6.250	158.8	20.250	514.4	0.750	19.1	4.000	101.6	0.500	12.7	135.6	61.5	375.0	170.1
	, ,	80	L18in/160	16.126	409.6	21.750	552.5	6.000	152.4	6.250	158.8	20.250	514.4	0.750	19.1	4.000	101.6	0.500	12.7	158.7	72.0	376.0	170.5
		100	L18in/160	15.688	398.5	21.750	552.5	6.000	152.4	6.250	158.8	20.250	514.4	0.750	19.1	4.000	101.6	0.500	12.7	171.1	77.6	376.0	170.5
		120	L18in/152	15.250	387.4	21.750	552.5	6.000	152.4	6.250	158.8	20.250	514.4	0.750	19.1	4.000	101.6	0.500	12.7	190.2	86.3	376.0	170.6
		140	L18in/152	14.876		21.750		6.000	152.4	6.250	158.8	20.250	514.4	0.750	19.1	4.000	101.6	0.500	12.7	199.1	90.3	376.0	170.6
		160	L18in/144	14.438		21.750		6.000	152.4		158.8	20.250		0.750	19.1	4.000	101.6	0.500	12.7	216.5	98.2	376.1	170.6
20"	(DN 500)	40	L20in/192	18.814		24.500		6.500	165.1		171.5	23.000		0.750	19.1	4.250	108.0	0.500	12.7	177.4	80.5	511.5	232.0
20.000	(508.0)	60	L20in/185	18.376		24.500		6.500	165.1		171.5	23.000		0.750	19.1	4.250	108.0	0.500	12.7	201.7	91.5	511.5	232.0
		80	L20in/180	17.938		24.500		6.500	165.1		171.5	23.000		0.750	19.1	4.250	108.0	0.500	12.7	226.2	102.6	511.6	232.1
		100	L20in/180	17.438		24.500		6.500	165.1		171.5	23.000		0.750	19.1	4.250	108.0	0.500	12.7	241.6	109.6	511.6	232.1
		120	L20in/170	17.000		24.500		6.500	165.1		171.5	23.000		0.750	19.1	4.250	108.0	0.500	12.7	268.7	121.9	511.8	232.1
		140	L20in/170	16.500		24.500		6.500	165.1		171.5	23.000		0.750	19.1	4.250	108.0	0.500	12.7	282.6	128.2	511.8	232.1
24"	(DN 600)	160 40	L20in/160 L24in/225	16.064 22.625		24.500 29.500		6.500 7.000	165.1 177.8		171.5 184.2	23.000 27.500		0.750 1.000	19.1 25.4	4.250 4.750	108.0 120.7	0.500	12.7 12.7	307.1 280.9	139.3 127.4	512.8 824.8	232.6 374.1
24.000	(609.6)	60	L24III/223 L24in/220	22.023		29.500		7.000	177.8		184.2	27.500		1.000	25.4	4.750	120.7	0.500	12.7	319.1	144.7	824.9	374.2
24.000	(0.600)	80	L24III/220 L24in/220	21.564		29.500		7.000	177.8		184.2	27.500		1.000	25.4	4.750	120.7	0.500	12.7	341.3	154.8	824.9	374.2 374.2
		100	L24in/220 L24in/210	20.938		29.500		7.000	177.8		184.2	27.500		1.000	25.4	4.750	120.7	0.500	12.7	384.7	174.5	825.1	374.3
		120	L24in/210	20.336		29.500		7.000	177.8		184.2	27.500		1.000	25.4	4.750	120.7	0.500	12.7	405.0	183.7	825.1	374.3
		140	L24in/210	19.876		29.500		7.000	177.8	7.250		27.500		1.000	25.4	4.750	120.7	0.500	12.7	441.6	200.3	826.6	375.0
		160	L24in/200	19.314		29.500		7.000	177.8		184.2	27.500		1.000	25.4	4.750	120.7	0.500	12.7	459.0	208.2	826.6	375.0
			,																				





NOTE: D* is the hub assembly length to the centerline of the clamp. This is also the length of a standard recessed Techlok hub option (see sketch p.30)

Α В D c BW Hub



 $H = 2 \times D^*$ (Hub assembly length)

Heavy Duty Series

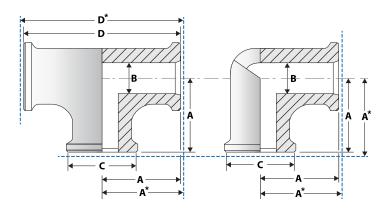
· ·cu	, y Du	ity Ser	ics						BW Hub						Н	$I = 2 \times 1$	D* (H	ub asse	embly le	ength)	
N.P.S. O. Dia (A)	(DN)	Pipe Schedule	Techlok Designation Hub / S Ring	Dian	Inside neter B)	Dian	outside neter C)	Hub Length	Hub Assemb Length (D*)	y Backface Diameter (E)		Lip Thickno	ess	Bli Thick (C	ness	Seal Ga (J	ър	BW We	Hub ight	Blind Wei	
ins	(mm)			ins	mm	ins	mm	ins mm	ins mm	ins mr	n	ins m	ım	ins	mm	ins	mm	Lbs	Kg	Lbs	Kg
2" 2.375	(DN 50) (60.3)	Std 40 40S XS 80 80S 160 XXS	H2in/20 H2in/20 H2in/16 H2in/14	2.067 1.939 1.689 1.503	52.5 49.3 42.9 38.2	4.750 4.750	120.7 120.7 120.7 120.7	3.250 82.6 3.250 82.6 3.250 82.6 3.250 82.6	3.375 85 3.375 85 3.375 85 3.375 85	7 3.750 9 5 7 3.750 9 5	5.3	0.625 1 0.625 1	15.9 15.9 15.9 15.9	1.875 1.875 1.875 1.875	47.6 47.6 47.6 47.6	0.250 0.250 0.250 0.250	6.4 6.4 6.4	6.2 6.5 7.1 7.5	2.8 2.9 3.2 3.4	7.2 7.2 7.2 7.2	3.3 3.3 3.3 3.3
3" 3.500	(DN 75) (88.9)	Std 40 40S XS 80 80S 160 XXS	H3in/27 H3in/27 H3in/25 H3in/23	3.068 2.900 2.624 2.300	77.9 73.7 66.6 58.4	5.500 5.500 5.500	139.7 139.7 139.7 139.7	3.500 88.9 3.500 88.9 3.500 88.9 3.500 88.9	3.625 92 3.625 92 3.625 92 3.625 92	1 4.500 114 1 4.500 114 1 4.500 114	1.3 1.3 1.3	0.625 1 0.625 1 0.625 1	15.9 15.9 15.9 15.9	2.125 2.125 2.125 2.125	54.0 54.0 54.0 54.0	0.250 0.250 0.250 0.250	6.4 6.4 6.4	7.3 8.0 9.2 10.3	3.3 3.6 4.2 4.7	11.1 11.1 11.1 11.1	5.0 5.0 5.0 5.1
4" 4.500	(DN 100) (114.3)	Std 40 40S XS 80 80S 120 160	H4in/40 H4in/40 H4in/34 H4in/34	4.026 3.826 3.624 3.438	97.2 92.0 87.3	6.750 6.750 6.750	171.5 171.5 171.5 171.5	4.000 101.6 4.000 101.6 4.000 101.6 4.000 101.6	4.125 104 4.125 104 4.125 104 4.125 104	8 5.750 146 8 5.750 146 8 5.750 146	5.1 5.1 5.1	0.625 1 0.625 1 0.625 1	15.9 15.9 15.9 15.9	2.750 2.750 2.750 2.750	69.9 69.9 69.9	0.250 0.250 0.250 0.250	6.4 6.4 6.4	11.9 13.0 14.6 15.5	5.4 5.9 6.6 7.0	22.0 22.0 22.2 22.2	10.0 10.0 10.1 10.1
6" 6.625	(DN 150) (168.3)	XXS XS 80 80S 120 160 XXS	H4in/31 H8in/56 H8in/54 H8in/52 H8in/52		146.3 139.7 131.8	11.500 11.500 11.500	171.5 292.1 292.1 292.1 292.1	4.000 101.6 5.000 127.0 5.000 127.0 5.000 127.0 5.000 127.0	4.125 104 5.125 130 5.125 130 5.125 130 5.125 130	9.500 24 3 9.500 24 3 9.500 24 3	l.3 l.3 l.3	1.063 2 1.063 2 1.063 2	27.0 27.0 27.0 27.0 27.0	2.750 3.188 3.188 3.188 3.188	69.9 81.0 81.0 81.0 81.0	0.250 0.250 0.250 0.250 0.250	6.4 6.4 6.4 6.4	17.2 64.5 67.1 69.6 71.1	7.8 29.3 30.4 31.6 32.3	22.2 75.7 75.7 75.7 75.7	10.1 34.3 34.3 34.3 34.3
8" 8.625	(DN 200) (219.1)	24mm Std 40 40S XS 80 80S 100	H8in/46 H8in/82 H8in/76 H8in/76	4.735 7.981 7.625 7.439	120.3 202.7 193.7 189.0	11.500 11.500 11.500 11.500	292.1 292.1 292.1 292.1	5.000 127.0 5.000 127.0 5.000 127.0 5.000 127.0	5.125 130 5.188 131 5.188 131 5.188 131	9.500 24 3 9.500 24 3 9.500 24 3 9.500 24 3	1.3 1.3 1.3	1.063 2 1.000 2 1.000 2 1.000 2	27.0 25.4 25.4 25.4 25.4	3.188 3.188 3.188 3.188	81.0 81.0 81.0 81.0	0.250 0.375 0.375 0.375	6.4 9.5 9.5 9.5	73.5 31.6 38.3 40.3	33.3 14.3 17.4 18.3	75.7 74.6 74.6 74.6	34.3 33.8 33.9 33.9
		120 140 XXS 160 32mm	H8in/72 H8in/72 H8in/67 H8in/67 H8in/62	7.189 7.001 6.875 6.813 6.105	177.8 174.6 173.1	11.500 11.500 11.500 11.500 11.500	292.1 292.1 292.1	5.000 127.0 5.000 127.0 5.000 127.0 5.000 127.0 5.000 127.0	5.188 131 . 5.188 131 . 5.188 131 . 5.188 131 . 5.188 131 .	9.500 24 3 9 .500 24 3 9 .500 24 3	l.3 l.3 l.3	1.000 2 1.000 2 1.000 2	25.4 25.4 25.4 25.4 25.4	3.188 3.188 3.188 3.188 3.188	81.0 81.0 81.0 81.0 81.0	0.375 0.375 0.375 0.375 0.375	9.5 9.5 9.5 9.5 9.5	45.4 47.2 50.1 50.7 59.8	20.6 21.4 22.7 23.0 27.1	74.7 74.7 74.7 74.7 74.8	33.9 33.9 33.9 33.9 33.9
10" 10.750	(DN 250) (273.1)	Std 40 40S XS 60 80S 80 100	H10in/102 H10in/97 H10in/97 H10in/94	10.020 9.750	254.5 247.7 242.9	13.625 13.625 13.625 13.625	346.1 346.1 346.1	6.000 152.4 6.000 152.4 6.000 152.4 6.000 152.4	6.188 157 6.188 157 6.188 157 6.188 157	2 11.625 29 5 2 11.625 29 5 2 11.625 29 5	5.3	1.250 3 1.250 3 1.250 3	31.8 31.8 31.8 31.8	3.500 3.500 3.500 3.500	88.9 88.9 88.9 88.9	0.375 0.375 0.375 0.375	9.5 9.5 9.5 9.5	49.9 57.5 60.7 67.6	22.6 26.1 27.6 30.7	120.7 120.8 120.8 120.8	54.8 54.8 54.8 54.8
12"	(DN 300)	120 XXS 140 160 Std 40S	H10in/91 H10in/87 H10in/84 H12in/120	9.064 8.750 8.500 12.000	222.3 215.9 304.8	13.625 13.625 13.625 16.000	346.1 346.1	6.000 152.4 6.000 152.4 6.000 152.4 6.625 168.3	6.188 157 6.188 157 6.188 157 6.813 173	2 11.625 29 5 2 11.625 29 5	5.3	1.250 3 1.250 3	31.8 31.8 31.8 34.9	3.500 3.500 3.500 4.000	88.9 88.9 88.9 101.6	0.375 0.375 0.375 0.375	9.5 9.5 9.5 9.5	74.0 80.5 86.2 77.1	33.6 36.5 39.1 35.0	120.8 120.8 120.9 194.5	54.8 54.8 54.8 88.2
12.750	(323.9)	40 XS 80S 80 100 XXS 120 140 160	H12in/120 H12in/116 H12in/116 H12in/112 H12in/106 H12in/106 H12in/102	11.938 11.750 11.376 11.064 10.750 10.500 10.126	298.5 289.0 281.0 273.1 266.7	16.000 16.000 16.000 16.000	406.4 406.4 406.4 406.4 406.4 406.4 406.4	6.625 168.3 6.625 168.3 6.625 168.3 6.625 168.3 6.625 168.3 6.625 168.3 6.625 168.3	6.813 173 6.813 173 6.813 173 6.938 176 6.813 173 6.813 173 6.813 173	0 14.000 355 0 14.000 355 14.000 355 0 14.000 355 0 14.000 355	5.6 5.6 5.6 5.6	1.375 3 1.375 3 1.250 3 1.375 3 1.375 3	34.9 34.9 34.9 31.8 34.9 34.9	4.000 4.000 4.000 4.000 4.000 4.000 4.000	101.6 101.6 101.6 101.6 101.6 101.6	0.375 0.375 0.375 0.625 0.375 0.375 0.375	9.5 9.5 9.5 15.9 9.5 9.5	78.8 85.4 94.4 104.3 112.9 118.3 129.3	35.8 38.7 42.8 47.3 51.2 53.7 58.7	194.5 194.5 194.5 192.9 194.6 194.6 194.6	88.2 88.2 88.2 87.5 88.3 88.3
14" 14.000	(DN 350) (355.6)	40 XS 80 100 120 140	H12iii/102 H14in/134 H14in/130 H14in/124 H14in/120 H14in/116	13.124 13.000 12.500 12.124 11.814 11.500	333.3 330.2 317.5 307.9 300.1	18.500 18.500 18.500 18.500 18.500	469.9 469.9 469.9 469.9 469.9 469.9	7.250 184.2 7.250 184.2 7.250 184.2 7.250 184.2 7.250 184.2 7.250 184.2	7.500 190 7.500 190 7.500 190 7.438 188 7.438 188 7.438 188	5 16.500 419 5 16.500 419 9 16.500 419 9 16.500 419 9 16.500 419	9.1 9.1 9.1 9.1 9.1	1.187 3 1.187 3 1.250 3 1.250 3 1.250 3	30.1 30.1 31.8 31.8 31.8	4.500 4.500 4.500 4.500 4.500 4.500	114.3 114.3 114.3 114.3 114.3 114.3	0.500 0.500 0.375 0.375 0.375 0.375	9.5 12.7 12.7 9.5 9.5 9.5 9.5	124.7 133.2 153.3 163.8 177.3 187.2	56.6 60.4 69.5 74.3 80.4 84.9	293.0 293.1 294.1 294.1 294.2 294.2	132.9 132.9 133.4 133.4
16" 16.000	(DN 400) (406.4)	160 XS 40 60 80 100 120	H14in/112 H16in/152 H16in/152 H16in/144 H16in/140 H16in/137	11.188 15.000 14.688 14.314 13.938 13.564	284.2 381.0 373.1 363.6 354.0	18.500 21.000 21.000 21.000 21.000 21.000	469.9 533.4 533.4 533.4 533.4 533.4	7.250 184.2 7.875 200.0 7.875 200.0 7.875 200.0 7.875 200.0 7.875 200.0 7.875 200.0	7.588 192 8.125 206 8.125 206 8.125 206 8.125 206 8.188 208	7 16.500 419 4 19.000 482 4 19.000 482 4 19.000 482 4 19.000 482 0 19.000 482	2.6 2.6 2.6 2.6 2.6 2.6	1.125 2 1.688 4 1.688 4 1.688 4 1.688 4 1.625 4	28.6 12.9 12.9 12.9 12.9 12.9	4.500 5.000 5.000 5.000 5.000 5.000	114.3 127.0 127.0 127.0 127.0 127.0	0.675 0.500 0.500 0.500 0.500 0.625	17.1 12.7 12.7 12.7 12.7 15.9	197.0 194.8 206.3 229.1 247.5 260.5	89.4 88.4 93.6 103.9 112.3 118.2	292.3 433.8 433.8 433.9 434.0 432.8	132.6 196.8 196.8 196.8 196.8 196.3
18" 18.000	(DN 450) (457.2)	140 160 40 60 80 100	H16in/134 H16in/130 H18in/170 H18in/170 H18in/160 H18in/160		325.4 428.7 419.1 409.6	21.000 22.000 22.000 22.000	533.4 533.4 558.8 558.8 558.8 558.8	7.875 200.0 7.875 200.0 7.875 200.0 7.875 200.0 7.875 200.0 7.875 200.0	8.125 206 . 8.125 206 . 8.125 206 . 8.125 206 . 8.125 206 . 8.125 206 .	4 19.000 482 4 20.000 508 4 20.000 508 4 20.000 508 4 20.000 508 4 20.000 508	2.6 3.0 3.0 3.0 3.0	1.688 4 1.688 4 1.688 4 1.688 4	12.9 12.9 12.9 12.9 12.9 12.9	5.000 5.000 5.000 5.000 5.000 5.000	127.0 127.0 127.0 127.0 127.0 127.0	0.500 0.500 0.500 0.500 0.500 0.500	12.7 12.7 12.7 12.7 12.7 12.7	279.4 293.9 176.0 191.7 219.8 238.1	126.8 133.3 79.8 86.9 99.7 108.0	477.8 478.8 478.8	216.7 217.2 217.2
20" 20.000	(DN 500) (508.0)	120 140 160 40 60	H18in/152 H18in/152 H18in/144 H20in/192 H20in/185	15.250 14.876 14.438 18.814 18.376	377.9 366.7 477.9	22.000 22.000 25.000	558.8 558.8 558.8 635.0 635.0	7.875 200.0 7.875 200.0 7.875 200.0 8.750 222.3 8.750 222.3	8.125 206 8.125 206 8.125 206 9.000 228 9.000 228	4 20.000 508 4 20.000 508 6 23.000 58	3.0 3.0 1.2	1.688 4 1.688 4 1.625 4	12.9 12.9 12.9 11.3 11.3	5.000 5.000 5.000 5.500 5.500	127.0 127.0 127.0 139.7 139.7	0.500 0.500 0.500 0.500 0.500	12.7 12.7 12.7 12.7 12.7	262.8 276.4 299.2 262.7 295.1	119.2 125.4 135.7 119.2 133.9	478.9 479.0 683.4	217.2 217.3 310.0
20.000	(308.0)	80 100 120 140	H20in/180 H20in/180 H20in/170 H20in/170	17.938 17.438 17.000 16.500	455.6 442.9 431.8 419.1	25.000 25.000 25.000 25.000	635.0 635.0 635.0 635.0	8.750 222.3 8.750 222.3 8.750 222.3 8.750 222.3 8.750 222.3	9.000 228 9.000 228 9.000 228 9.000 228	5 23.000 584 6 23.000 584 6 23.000 584 6 23.000 584	1.2 1.2 1.2 1.2	1.625 4 1.625 4 1.625 4 1.625 4	11.3 11.3 11.3 11.3	5.500 5.500 5.500 5.500	139.7 139.7 139.7 139.7	0.500 0.500 0.500 0.500	12.7 12.7 12.7 12.7	327.6 351.9 386.5 408.7	148.6 159.6 175.3 185.4	683.6 683.6 683.7 683.7	310.1 310.1 310.1 310.1
22" 22.000	(DN 550) (558.8)	160 40 60 80 100 120 140	H20in/160 H22in/210 H22in/210 H22in/200 H22in/192 H22in/192 H22in/185	16.064 20.750 20.250 19.750 19.250 18.750 18.250	527.1 514.4 501.7 489.0 476.3	26.000 26.000 26.000 26.000 26.000	635.0 660.4 660.4 660.4 660.4 660.4	8.750 222.3 8.750 222.3 8.750 222.3 8.750 222.3 8.750 222.3	9.000 228 9.000 228 9.000 228 9.000 228 9.000 228 9.000 228 9.000 228	6 24.000 609 6 24.000 609 6 24.000 609 6 24.000 609 6 24.000 609	9.6 9.6 9.6 9.6	1.250 3 1.250 3 1.250 3 1.250 3 1.250 3	11.3 31.8 31.8 31.8 31.8 31.8	5.500 5.500 5.500 5.500 5.500 5.500 5.500	139.7 139.7 139.7 139.7 139.7 139.7	0.500 0.500 0.500 0.500 0.500 0.500 0.500	12.7 12.7 12.7 12.7 12.7 12.7 12.7	440.3 219.8 247.0 295.2 333.3 358.9 391.8	199.7 99.7 112.0 133.9 151.2 162.8 177.7	734.1 734.2 734.2	332.3 332.3 333.0 333.0 333.0
24" 24.000	(DN 600) (609.6)	160 40 60 80 100 120	H22in/180 H24in/225 H24in/220 H24in/220 H24in/210 H24in/210	17.750 22.625 22.064 21.564 20.938 20.376	450.9 574.7 560.4 547.7 531.8 517.6	26.000 29.500 29.500 29.500 29.500 29.500	660.4 749.3 749.3 749.3 749.3 749.3	8.750 222.3 8.750 222.3 9.000 228.6 9.000 228.6 9.000 228.6 9.000 228.6 9.000 228.6	9.000 228 9.250 235 9.250 235 9.250 235 9.250 235 9.250 235	6 24.000 609 0 27.500 698 0 27.500 698 0 27.500 698 0 27.500 698 0 27.500 698	9.6 3.5 3.5 3.5 3.5 3.5	1.250 3 1.250 3 1.250 3 1.250 3 1.250 3 1.250 3	31.8 31.8 31.8 31.8 31.8 31.8	5.500 6.000 6.000 6.000 6.000 6.000	139.7 152.4 152.4 152.4 152.4 152.4	0.500 0.500 0.500 0.500 0.500 0.500	12.7 12.7 12.7 12.7 12.7 12.7	424.8 360.3 409.6 441.6 496.8 527.4	192.7 163.4 185.8 200.3 225.4 239.2	734.4 1041.2 1041.4 1041.4 1041.6 1041.6	333.1 472.3 472.4 472.4 472.5 472.5
26" 26.000	(DN 650) (660.4)	140 160 Std XS 19.1 mm 25.4 mm 34.9 mm	H24in/200 H24in/200 H26in/254 H26in/254 H26in/244 H26in/240 H26in/232	19.876 19.314 25.250 25.000 24.500 24.000 23.000	490.6 641.4 635.0 622.3 609.6	29.500 31.250 31.250 31.250 31.250	749.3 749.3 793.8 793.8 793.8 793.8 793.8	9.000 228.6 9.000 228.6 10.000 254.0 10.000 254.0 10.000 254.0 10.000 254.0 10.000 254.0	9.250 235 . 9.250 235 . 10.250 260 .	0 27.500 698 0 27.500 698 4 29.250 74: 4 29.250 74: 4 29.250 74: 4 29.250 74: 4 29.250 74:	3.5 3.0 3.0 3.0 3.0	1.250 3 1.625 4 1.625 4 1.625 4 1.625 4	31.8 31.8 11.3 11.3 11.3 11.3	6.000 6.000 6.500 6.500 6.500 6.500	152.4 152.4 165.1 165.1 165.1 165.1 165.1	0.500 0.500 0.500 0.500 0.500 0.500 0.500	12.7 12.7 12.7 12.7 12.7 12.7 12.7	573.0 600.1 360.8 382.2 445.8 497.0 589.5	272.2 163.7 173.3 202.2 225.4	1043.1 1043.1 1280.6 1280.6 1280.8 1280.9 1281.0	473.1 580.9 580.9 581.0 581.0



Techlok Compact Tees & Elbows

Techlok compact elbows and tees provide a simple and convenient method of constructing pipework runs and branches. Manufactured from either die forgings or block forgings, these components provide guaranteed "face to face" dimensions and parallel/square faces. Misalignment tolerances will be minimal compared to normal fabrications.

Compact elbows and tees are manufactured in the following standard materials: A350 LF2 (Modified), AISI 4130 (API PSL3) and Duplex steel. All components meet requirements of NACE MR-0175. Other materials can be supplied upon request, including weld overlay to seat pockets or weld cladding through bores. Target tees and crosses are also available upon request. Vector can also supply radiused elbows (either short or long diameter swept bore). These components will be jig fabricated in controlled conditions to provide uniform and perpendicular dimensions.



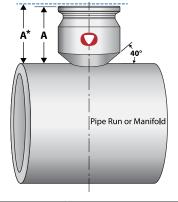
Techlok Size	Seal Ring Size					Dir	nensional da	ata						Weight ([approx]	
Size	Size	F	•	A		В	(:)	D		Elb	OW	Te	10
		Branch	length	Length to	Centerline	Bore	Hub Out	side dia.	Tee Lo	ength	Length to	Centerline	Lib	0 **	16	
		ins	mm	ins	mm		ins	mm	ins	mm	ins	mm	lbs	Kg	lbs	Kg
1in	4 - 11	3.00	76.2	3.06	77.8		2.00	50.8	6.00	152.4	6.13	155.6	2	1.1	3	1.5
1 1/2in	11 -13	4.00	101.6	4.06	103.2		3.13	79.4	8.00	203.2	8.13	206.4	7	3.4	10	4.6
1 1/2in	14	3.94	100.0	4.06	103.2		3.13	79.4	7.88	200.0	8.13	206.4	5	2.4	7	3.3
2in	14 - 20	4.00	101.6	4.13	104.8		3.63	92.1	8.00	203.2	8.25	209.6	8	3.8	11	5.0
3in	20 - 27	5.38	136.5	5.50	139.7		5.00	127.0	10.75	273.1	11.00	279.4	24	11.1	32	14.6
4in	25 - 40	6.00	152.4	6.13	155.6		6.00	152.4	12.00	304.8	12.25	311.2	39	17.5	50	22.6
5in	31 - 46	8.00	203.2	8.13	206.4	Bore to	7.50	190.5	16.00	406.4	16.25	412.8	90	41.0	117	53.2
6in	40 - 56	9.00	228.6	9.13	231.8	match	9.25	235.0	18.00	457.2	18.25	463.6	128	58.0	164	74.5
6in	62	8.94	227.0	9.13	231.8	sealring bore.	9.25	235.0	17.88	454.0	18.25	463.6	93	42.1	119	54.0
8in	52 - 56	10.00	254.0	10.13	257.2	Dore.	11.50	292.1	20.00	508.0	20.25	514.4	310	140.6	388	175.8
8in	62 - 82	9.94	252.4	10.13	257.2	see page 5	11.50	292.1	19.88	504.8	20.25	514.4	210	95.0	262	118.6
H2in	14 - 20	5.38	136.5	5.50	139.7		4.75	120.7	10.75	273.1	11.00	279.4	25	11.3	33	15.0
H3in	20 - 27	6.00	152.4	6.13	155.6		5.50	139.7	12.00	304.8	12.25	311.2	39	17.5	51	23.0
H4in	25 - 40	7.00	177.8	7.13	181.0		6.75	171.5	14.00	355.6	14.25	362.0	70	31.8	91	41.1
H8in	52 - 56	10.00	254.0	10.13	257.2		11.50	292.1	20.00	508.0	20.25	514.4	267	121.0	337	152.7
H8in	62 - 72	9.94	252.4	10.13	257.2		11.50	292.1	19.88	504.8	20.25	514.4	188	85.4	238	107.7

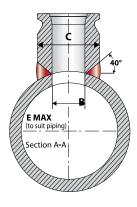
NOTE: Dimensions A* and D* are shown to the centerline of the assembled connector

Techlok Weld-o-hub and Sweep-o-hubs

Techlok Weld-o-hubs™ and Sweep-o-hubs are available to provide branch connections into pressure piping. Both designs provide integral reinforcement to the penetration in accordance with code rules, therefore, fabrication can be completed with a single weld.

Both designs are manufactured from all grades of forged steel (or alloys), compatible with the piping material. Sweep-o-hubs allow for full radiographic inspection of the finished weld. Both Weld-o-hubs™ and Sweepo-hubs can be used in conjunction with other Techlok components such as blind hubs (tapped for pressure measurement), butt weld hubs (piping) and thermowells or injection quills. Dimensions shown are also applicable to the Techlok Sweep-o-hub when fabricated onto pipework (see page 30).





Techlok Size	Seal Ring Size				Dimensional data				We (No	ight
Size	Size	ŀ	A	1	4*	В	(C	(INO	te 2)
		Branch	length	Branch length to	Centerline (Note 3)	Bore	Hub Outside dia	meter (Note 1)		
		ins	mm	ins	mm		ins	mm	lbs	Kg
1in	4 -11	3.00	76.2	3.06	77.8		2.00	50.8	1	0.5
1 1/2in	11 -13	4.00	101.6	4.06	103.2		3.13	79.4	4	1.7
1 1/2in	14	3.94	100.0	4.06	103.2	1	3.13	79.4	3	1.2
2in	14 - 20	4.00	101.6	4.13	104.8		3.63	92.1	4	1.9
3in	20 - 27	5.38	136.5	5.50	139.7	1	5.00	127.0	12	5.5
4in	25 - 40	6.00	152.4	6.13	155.6	1	6.00	152.4	19	8.7
5in	31 - 46	8.00	203.2	8.13	206.4		7.50	190.5	45	20.5
6in	40 - 56	9.00	228.6	9.13	231.8	Bore to match	9.25	235.0	64	29.0
6in	62	8.94	227.0	9.13	231.8	sealring bore.	9.25	235.0	46	21.0
8in	52 - 56	10.00	254.0	10.13	257.2	see page 5	11.50	292.1	155	70.3
8in	62 - 82	9.94	252.4	10.13	257.2	see page 5	11.50	292.1	105	47.5
]				
H2in	14 - 20	5.38	136.5	5.50	139.7	1	4.75	120.7	12	5.7
H3in	20 - 27	6.00	152.4	6.13	155.6		5.50	139.7	19	8.8
H4in	25 - 40	7.00	177.8	7.13	181.0]	6.75	171.5	35	15.9
H8in	52 - 56	10.00	254.0	10.13	257.2	1	11.50	292.1	133	60.5
H8in	62 - 72	9.94	252.4	10.13	257.2		11.50	292.1	94	42.7

NOTES:

- 1) Dimension C is nominal hub diameter. This can be minimised on a case by case basis to suit client application
- 2) Weights shown are the same for Weld-o-hubs and sweep-o-hubs and are representative of the finished fabrication.
- 3) Dimension A* is to the centerline of the assembled connector.



Material Selection

Piping Material	Hub Material	Sealring Material / Coating	Clamp Material (incl. bolting)	Service Requirements
A106 Gr B	A105	AISI 4140 / Mos2 or PTFE (7)	AISI 4140 - B7/2H	General Service, NACE ⁽¹⁾
A333 Gr 1	A350 LF2 (Mod) (5)		AISI 4140 - L7/7	General Service, NACE, Low Temperature (2)
API 5L X52	A694 F52		AISI 4140 - L7M/7M	General Service, Full NACE Service, Low Temperature (3)
A106 Gr B	A350 LF2 (Mod) - with	B637 UNS N07718 / Mos2 or PTFE ⁽⁷⁾	AISI 4140 - B7/2H	General Service, NACE ⁽¹⁾
A333 Gr 1	alloy 625 weld overlay	(Alloy 718)	AISI 4140 - L7/7	General Service, NACE, Low Temperature (2)
API 5L X52	(Note 5) as above		AISI 4140 - L7M/7M	General Service, Full NACE Service, Low Temperature (3)
AISI 4130	AISI 4130	AISI 4140 / Mos2 or PTFE (7)	AISI 4140 - B7/2H	High Pressure Service (API), NACE (1)
			AISI 4140 - L7/7	High Pressure Service (API), NACE, Low Temperature (2)
			AISI 4140 - L7M/7M	High Pressure Service (API), Full NACE Service, Low Temperature (3)
A321 304	A182 F304	Duplex or 630 SS / Mos2 or PTFE (7)	AISI 4140 - B7/2H	General Service, NACE ⁽¹⁾
A321 316	A182 F316	A182 F316 / MoS2 or PTFE ⁽⁷⁾	A 182 F304 - B8/8	External Corrosion, Cryogenic Service.
A321 321	A182 F321	A564 630 / MoS2	A 182 F304 - B8/8	External Corrosion, High Temperature Service (4)
		B637 UNS N07718 / MoS2 or graphite	A 182 F304 - B8/8	External Corrosion, High Temperature Service (6)
A790 UNS 31803	A182 F51	Duplex or 630 SS / MoS2 or PTFE (7)	AISI 4140 - B7/2H	General Service, NACE ⁽¹⁾
(Duplex)	(UNS S31803)		AISI 4140 - L7/7	General Service, NACE, Low Temperature (2)
			AISI 4140 - L7M/7M	General Service, Full NACE Service, Low Temperature (3)
Nickel Alloys	Nickel Alloy to suit piping	B637 UNS N07718 / MoS2 or PTFE ⁽⁷⁾	AISI 4140 - B7/2H	General Service, NACE (1)
		DCOZ LINIC NOZZIO / AA-CO L'II	A 182 F304 - B8/8	External Corrosion,Cryogenic Service.
		B637 UNS N07718 / MoS2 or graphite	A 182 F304 - B8/8	External Corrosion, High Temperature Service (6)

- NOTES: 1. All Wetted surfaces meet requirements of NACE MR-01-75
 2. All Wetted surfaces meet requirements of NACE MR-01-75, Materials qualified at -46°C
 - 3. All components meet requirements of NACE MR-01-75, Materials qualified at -46°C

- 4. Temperatures up to 400°C
- 5. Vector hub forgings supplied triple certified as shown.
- 6. Temperatures up to 600°C
 7. Temperature limits for PTFE coating is 250°C

Bending Moment Calculation Procedure

New to this edition is the inclusion of a simple method for evaluating the approximate External Bending capacity of a Techlok connector. Maximum bending capacities are shown highlighted in each pressuretemperature table for the appropriate hub/seal combination. An approximate bending capacity can be calculated at any temperature/ pressure combinations by following the procedure below.

	Example 1 (Imperial)	Example 2 (Metric)
Calculation Procedure	6in52 , A105 hub Low alloy clamp 3000psi@300°F	L16in134 , A182 F51 hub Low alloy clamp 350Bar@200°C
PRA = Pressure rating (ambient)	PRA = 8092psi (page 10)	PRA = 364 Bar (page 24)
PRT = Pressure rating (temperature) interpolate between values	P _{RT} = 7148psi (page 10)	P _{RT} = 364 Bar (page 24)
PD = Design Pressure	PD = 3000psi	PD = 350 Bar
BM _{MAX} = Max bending capacity	BM _{MAX} = 34589 Ft-lbs (page 10)	BM _{MAX} = 838256 Nm (page 24)
BMD = Design bending capacity at required pressure and temperature BMD = PRT /PRA × BMMAX × [1-PD/(PRT × 1.2)]	BMD = 7148/8092 x 34589 x [1-3000/(7148 x 1.2)] = 19868 Ft-lbs	BMD = 364/364 x 838256 x [1-350/(364 x 1.2)] = 166526 Nm

NOTES:

- 1) Bending calculations are approximate and will always be conservative.
- If the design pressure is close to the rated pressure then the bending calculations will be more conservative. Contact Vector if higher load is needed.
- 3) Pressure ratings and bending moment are calculated based upon the bore of the sealring rather than the bore of pipe.

Bolt Torque Data & Interchangeability Data

Clamp Size	Standard Bolt Dia	Bolt Pr Not		(Frictio	orque on=0.1) : 1 & 2	Notes	2	Х	GR Standard	GR Optional Sizes
	ins	Lbf	KN	Ft-lbs	Nm		ins	mm		
Standar	d Clamp Se	ries								
1in	0.500	2,844	12.7	17	23	3 & 5	0.2	5	1GR	
1 1/2in	0.625	4,766	21.2	35	48	4 & 5	0.2	6	1.5GR	
2in	0.750	6,516	29.0	55	75	4 & 5	0.2	6	2GR	
3in	0.750	7,476	33.3	65	88	4 & 5	0.3	8	3GR	
4in	0.875	9,946	44.2	100	136	4 & 5	0.4	10	4GR	
5in	1.000	13,986	62.2	160	217	4 & 5	0.6	14	5GR	E
6in	1.125	16,032	71.3	210	285	4 & 5	1.0	24	6GR	F, XF
8in	1.250	20,887	92.9	300	407	4 & 5	1.1	27	8GR	X8GR
Light Du	ıty Series	•					- 1 1 2 1 22			
L14in	1.625	39,727	177	700	949	3 & 5	1.3	33	X14GR	
L16in	1.750	42,084	187	800	1,085	3 & 5	1.3	33	X16GR	
L18in	1.875	54,288	241	1,100	1,492	3 & 5	1.3	33	X18GR	
L20in	2.000	58,073	258	1,250	1,695	3 & 5	1.3	34	X20GR	
L24in	2.250	74,880	333	1,800	2,440	3 & 5	1.6	39	X24GR	
Heavy [Outy Series									
H2in	0.875	9946	44.2	100	136	4 & 5	0.2	6	В	
H3in	0.875	11,931	53.1	120	163	4 & 5	0.3	8	С	
H4in	1.000	12,240	54.4	140	190	4 & 5	0.4	11	D	
H8in	1.375	25,599	114	390	529	4 & 5	0.9	24	G	XG
H10in	1.625	39,722	177	700	949	4 & 5	1.2	32	10H	X10H
H12in	1.750	47,340	211	900	1,220	4 & 5	1.5	37	12M	X12M
H14in	1.875	59,208	263	1,200	1,627	4 & 5	1.5	39	Р	
H16in	2.250	83,204	370	2,000	2,711	4 & 5	1.6	40	S	
H18in	2.250	83,204	370	2,000	2,711	4 & 5	1.7	42		
H20in	2.250	89,448	398	2,150	2,915	4 & 5	1.7	43	U	
H22in	2.250	89,448	398	2,150	2,915	4 & 5	1.7	43	V	
H24in	2.250	93,608	416	2,250	3,051	4 & 5	1.8	45	W	
H26in	2.500	103,590	461	2,750	3,728	4 & 5	1.8	45	Υ	

- 1) Basic (minimum) values shown shall be used for piping systems up to 600 lb, blind closures and applications using Stainless Steel clamps.

 2) Different friction coefficients will require the torque values to be adjusted.

 3) For 900 lb systems and above, increase bolt torque/preload by 1.5.

- 4) For 900 lb-1500 lb systems, increase bolt torque/preload by 1.5 ; for 2500 lb (incl. 5K) systems and above increase bolt torque/preload by 2.0.
- 5) Increased bolt torques/preload values in points 3 & 4 above apply for Low Alloy steel clamps with B7/B7M bolting (or equivalent). Do not use for Stainless Steel clamps .
- 6) Exceeding the bolt loads detailed above may cause clamp/hub distortions. If correct make-up is not achieved (i.e. unable to correct mis-alignment), then seek assistance as other measures may be needed to assist with the assembly.



Hub material - ANSI Material Group 1.1		A105, A350 LF2, A350 LF3,	A216 WCB
Clamp material :	Low alloy (AISI 4130/40)	Corrosion Allowance :	0.063" (1.6mm)

Techlok size	Nom. Pipe	Schedules	Min b seal	ore of ring			Pressi	ure Rating	g (psi)			Max Bending Capacity (6)			Pressu	re rating	(bar)			Max Bending Capacity (6)
	Size		ins	mm	0-100°F	200°F	300°F	400°F	500°F	600°F	700°F	(Ft-lbs)	0-50°C	100°C	150°C	200°C	250°C	300°C	350°C	(Nm)
1in11	1 in	Std-40-40S	1.13	28.6	4,180	3,832	3,693	3,577	3,402	3,205	2,938	214	283	263	255	247	237	225	210	294
1in11		XS-80-80S	1.13	28.6	4,180	3,832	3,693	3,577	3,402	3,205	2,938	214	283	263	255	247	237	225	210	294
1in8		XS-80-80S ⁽⁴⁾	1.00	25.4	6,578	6,030	5,810	5,628	5,354	5,043	4,623	300	445	414	401	389	373	354	330	413
1in7		160	0.91	23.0	8,529	7,818	7,534	7,297	6,941	6,539	5,994	346	577	537	519	504	483	459	428	476
1in5		XXS	0.63	15.9	15,286	14,012	13,502	13,078	12,441	11,719	10,742	469	1,035	962	931	904	866	822	766	644
1in4		C1 1 40 40C	0.50	12.7	18,899	17,324	16,694	16,169	15,381	14,489	13,281	511	1,279	1,189	1,151	1,118	1,070	1,016	947	702
1.5in14	1.5 in	Std-40-40S	1.61	40.9	7,186	6,588	6,348	6,148	5,849	5,510	5,050	1,185	486	452	438	425	407	386	360	1,628
1.5in13		XS-80-80S	1.50	38.1	8,644	7,924	7,636	7,396	7,036	6,627	6,075	1,423	585	544	526	511	490	465	433	1,955
1.5in13		160 XXS	1.50 1.13	38.1	8,644	7,924	7,636 12,523	7,396 12.129	7,036	6,627	6,075	1,423	585	544 892	526	511 838	490	465	433	1,955
1.5in11 2in20	2 in	Std-40-40S	2.06	28.6 52.4	14,176 6,262	12,995 5,740	5,531	5,357	11,538 5,096	10,869 4,800	9,963	1,806 1,742	959	394	863 381	370	803 355	762 337	711	2,482
2in20 2in20	2 III	XS-80-80S	2.06	52.4 52.4	6,262	5,740	5,531	5,357	5,096	4,800	4,400 4,400	1,742	424 424	394 394	381	370 370	355 355	337	314 314	2,394 2,394
2in16		160	1.87	47.4	8,356	7,659	7,381	7,149	6,800	6,406	5,872	2,103	566	526	509	494	473	449	419	2,394
2in10 2in14		XXS	1.61	40.9	11,410	10,459	10.078	9,762	9,286	8,747	8,018	2,103	772	718	695	675	646	614	572	3,547
2in13		1000	1.50	38.1	12.804	11.737	11.310	10.955	10.421	9.817	8,998	2,865	867	806	780	757	725	688	642	3,938
3in27		Std-40-40S	3.06	77.8	4,544	4,165	4,014	3,887	3,698	3,484	3,193	3,689	308	286	277	269	257	244	228	5,071
3in27		XS-80-80S	3.06	77.8	4,544	4,165	4,014	3,887	3,698	3,484	3,193	3,689	308	286	277	269	257	244	228	5,071
3in25		160	2.67	67.9	8,165	7,485	7,213	6,986	6,646	6,260	5,738	5,223	553	514	497	483	462	439	409	7,178
3in23		XXS	2.38	60.3	10,645	9,758	9,403	9,107	8,664	8,161	7,481	6,128	720	670	648	630	603	572	534	8,423
3in20		70.0	2.06	52.4	13,504	12,378	11,928	11,553	10,990	10,353	9,490	7,019	914	850	822	799	765	726	677	9,647
4in40	4 in	Std-40-40S	4.06	103.2	2,925	2,682	2,584	2,503	2,381	2,243	2,056	5,356	198	184	178	173	166	157	147	7,361
4in40		XS-80-80S	4.06	103.2	2,925	2,682	2,584	2,503	2,381	2,243	2,056	5,356	198	184	178	173	166	157	147	7,361
4in34		160	3.69	93.7	5,457	5,002	4,820	4,668	4,441	4,183	3,835	7,747	369	343	332	323	309	293	274	10,647
4in31		XXS	3.25	82.6	8,953	8,207	7,908	7,660	7,287	6,864	6,292	10,121	606	563	545	529	507	481	449	13,910
4in27			3.06	77.8	10,214	9,363	9,022	8,739	8,313	7,831	7,178	10,996	691	643	622	604	578	549	512	15,113
4in25			2.67	67.9	13,029	11,943	11,509	11,147	10,604	9,989	9,156	12,754	882	820	793	771	738	701	653	17,529
5in52	5 in	Std-40-40S	5.31	135.0	3,108	2,849	2,745	2,659	2,530	2,383	2,184	12,093	210	196	189	184	176	167	156	16,620
5in50		XS-80-80S	5.00	127.0	4,522	4,145	3,995	3,869	3,681	3,467	3,178	15,542	306	285	275	267	256	243	227	21,361
5in46		160	4.75	120.7	6,031	5,528	5,327	5,160	4,909	4,624	4,238	18,153	408	379	367	357	342	324	302	24,949
5in42		XXS	4.19	106.4	9,018	8,267	7,966	7,716	7,340	6,914	6,338	23,596	610	567	549	533	511	485	452	32,430
5in40			4.06	103.2	9,985	9,153	8,820	8,543	8,127	7,655	7,017	24,294	676	628	608	591	565	537	501	33,389
5in34			3.69	93.7	12,022	11,020	10,619	10,285	9,784	9,217	8,449	26,904	814	756	732	711	681	646	603	36,976
5in31			3.25	82.6	14,586	13,371	12,884	12,479	11,872	11,183	10,251	29,365	987	918	888	863	826	784	731	40,359
6in62	6 in	Std-40-40S	6.07	154.1	3,631	3,328	3,207	3,106	2,955	2,784	2,552	22,987	246	228	221	215	206	195	182	31,592
6in56		XS-80-80S-120	5.75	146.1	5,599	5,132	4,946	4,790	4,557	4,293	3,935	29,397	379	352	341	331	317	301	281	40,403
6in54		120 (4)	5.50	139.7	6,957	6,377	6,145	5,952	5,662	5,333	4,889	32,214	471	438	424	411	394	374	349	44,274
6in52		160-XXS	5.31	135.0	8,092	7,417	7,148	6,923	6,586	6,204	5,687	34,589	548	509	493	479	458	435	406	47,539
6in46		XXS	4.75	120.7	10,509	9,633	9,283	8,991	8,553	8,057	7,385	41,345	711	661	640	621	595	565	527	56,824
6in42			4.19	106.4	12,838	11,769	11,341	10,984	10,449	9,843	9,023	47,733	869	808	782	759	727	690	644	65,604
6in40	0 :	C+1 40 40C	4.06	103.2	13,761	12,614	12,155	11,773	11,200	10,550	9,671	47,897	931	866	838	814	779	740	690	65,828
8in82	8 in	Std-40-40S XS-80-80S	8.25	209.6	2,542	2,330	2,246	2,175	2,069	1,949	1,787	37,948	172	160	155	150	144	137	127	52,155
8in76			7.75 7.75	196.9	3,921	3,594	3,463	3,354	3,191	3,006	2,755	51,240	265	247	239	232	222	211	197	70,423
8in76		100 120-140	7.75	196.9 184.2	3,921 5,656	3,594 5,184	3,463 4,996	3,354 4,839	3,191 4,603	3,006 4,336	2,755 3,975	51,240 63,268	265 383	247 356	239 344	232 334	222 320	211 304	197 283	70,423 86,954
8in72 8in67		XXS-160	6.88	174.6	7,245	6,641	6,399	6,198	5,896	5,554	5,091	70,701	490	356 456	344 441	428	410	304 390		
8in67 8in62		VV2-T00	6.88	174.6	10,868	9,962	9,600	9,298	5,896 8,845	5,554 8,332	7,638	70,701 85,951	736	456 684	662	428 643	410 615	390 584	363 545	97,170 118,130
8in56			5.75	146.1	11,912	10,919	10,522	10,191	9,695	9,132	8,371	93,225	806	750	725	704	675	641	597	128,126
011130			5.75	140.1	11,912	10,919	10,322	10,191	5,055	5,132	0,3/1	20,220	808	750	725	704	0/3	041	/כנ	120,120

Light Duty Series

Techlok size	Nom. Pipe	Schedules	Min bo sealı				Pressu	ıre Ratin	g (psi)			Max Bending Capacity (6)			Pressu	ure rating	g (bar)			Max Bending Capacity (6)
	Size		ins	mm	0-100°F	200°F	300°F	400°F	500°F	600°F	700°F	(Ft-lbs)	0-50°C	100°C	150°C	200°C	250°C	300°C	350°C	(Nm)
L14in134	14in	40	13.50	342.9	1,963	1,799	1,734	1,679	1,598	1,505	1,379	121,692	133	124	120	116	111	106	98	167,251
L14in130		XS	13.00	330.2	2,732	2,504	2,413	2,337	2,223	2,094	1,920	154,572	185	172	166	162	155	147	137	212,441
L14in124		80-100	12.50	317.5	3,591	3,292	3,172	3,073	2,923	2,753	2,524	186,607	243	226	219	212	203	193	180	256,470
L14in120		120	12.00	304.8	4,764	4,367	4,208	4,076	3,877	3,652	3,348	220,050	322	300	290	282	270	256	239	302,433
L14in116		140	11.75	298.5	5,091	4,666	4,497	4,355	4,143	3,903	3,578	232,417	345	320	310	301	288	274	255	319,429
L14in112		160	11.25	285.8	5,551	5,088	4,903	4,749	4,518	4,256	3,901	267,455	376	349	338	328	314	298	278	367,585
L16in152	16in	XS-40-60	15.25	387.4	2,257	2,069	1,994	1,931	1,837	1,730	1,586	203,147	153	142	137	133	128	121	113	279,202
L16in144		80	14.50	368.3	3,361	3,081	2,969	2,875	2,735	2,577	2,362	267,246	227	211	205	199	190	181	168	367,298
L16in140		100	14.00	355.6	3,787	3,471	3,345	3,240	3,082	2,903	2,661	307,569	256	238	231	224	214	204	190	422,718
L16in137		120	13.88	352.4	3,850	3,529	3,401	3,294	3,134	2,952	2,706	318,162	261	242	234	228	218	207	193	437,277
L16in134		140	13.50	342.9	4,049	3,712	3,577	3,464	3,296	3,104	2,846	339,905	274	255	247	239	229	218	203	467,159
L16in130		160	13.00	330.2	4,340	3,978	3,833	3,713	3,532	3,327	3,050	331,962	294	273	264	257	246	233	218	456,242
L18in170	18in	40-60	17.00	431.8	2,484	2,277	2,194	2,125	2,022	1,904	1,746	307,622	168	156	151	147	141	134	125	422,790
L18in160		80-100	16.00	406.4	3,381	3,100	2,987	2,893	2,752	2,592	2,376	422,227	229	213	206	200	191	182	170	580,301
L18in152		120-140	15.25	387.4	3,693	3,386	3,263	3,160	3,006	2,832	2,596	449,265	250	232	225	218	209	199	185	617,462
L18in144		160	14.50	368.3	4,052	3,714	3,579	3,467	3,298	3,106	2,847	435,313	274	255	247	240	229	218	203	598,286
L20in192	20in	40	19.25	489.0	2,591	2,375	2,289	2,217	2,109	1,987	1,821	466,309	175	163	158	153	147	139	130	640,887
L20in185		60	18.63	473.1	2,741	2,513	2,421	2,345	2,231	2,102	1,926	542,661	186	172	167	162	155	147	137	745,823
L20in180		80-100	18.00	457.2	2,935	2,690	2,592	2,511	2,389	2,250	2,063	567,512	199	185	179	174	166	158	147	779,978
L20in170		120-140	17.00	431.8	3,255	2,983	2,875	2,785	2,649	2,495	2,287	546,930	220	205	198	192	184	175	163	751,690
L20in160		160	16.00	406.4	3,642	3,339	3,217	3,116	2,964	2,792	2,560	526,725	247	229	222	215	206	196	183	723,921
L24in225	24in	40	22.63	574.7	3,022	2,770	2,670	2,586	2,460	2,317	2,124	888,695	205	190	184	179	171	163	152	1,221,405
L24in220		60-80	22.00	558.8	3,203	2,936	2,829	2,741	2,607	2,456	2,251	1,014,652	217	202	195	189	181	172	161	1,394,519
L24in210		100-120	21.00	533.4	3,489	3,198	3,082	2,985	2,839	2,675	2,452	1,074,574	236	220	212	206	198	188	175	1,476,874
L24in200		140-160	20.00	508.0	3,819	3,501	3,374	3,268	3,109	2,928	2,684	1,033,643	259	240	233	226	216	205	191	1,420,620

NOTES :

- 1) Pressure ratings based upon requirements of ASME VIII Div 2 Part 5 2) Max hydrotest = 1.5 x rated pressure. 3) Pressure ratings shown are based upon the hub bore being equal to the sealring bore.

- 4) Optional sealring sizes for pipe schedules shown.
 5) Optional pipe selection for high pressure applications.
 6) See page 9 for bending moment calculation method
 7) Pressure ratings do not reflect the pressure capacity of the adjoining pipe.



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Hub material - ANSI Material Group 1.1		A105, A350 LF2, A350 LF3,	A216 WCB
Clamp material :	Low alloy (AISI 4130/40)	Corrosion Allowance :	0.063" (1.6mm)

Techlok	Nom.	Schedules	Min b				Pressu	re Rating	(psi)			Max Bending Capacity (6)			Pressu	ure rating	g (bar)			Max Bending
size	Pipe Size		ins	ring	0-100°F	200°F	300°F	400°F	500°F	600°F	700°F	(Ft-lbs)	0-50°C	100°C	150°C	200°C	250°C	300°C	350°C	(Nm)
H2in20	2 in	Std-40-40S	2.06	52.4	12,136	11,124	10,720	10,383	9,877	9,304	8,529	6,109	821	764	739	718	687	653	608	8,396
H2in20		XS-80-80S	2.06	52.4	12,136	11,124	10,720	10,383	9,877	9,304	8,529	6,109	821	764	739	718	687	653	608	8,396
H2in16 H2in14		160 XXS	1.87 1.61	47.4 40.9	14,099 16,912	12,924 15,502	12,454 14,939	12,063 14,469	11,475 13,764	10,809 12,966	9,909 11,885	6,423 7,039	954 1,145	887 1,064	859 1,030	834 1,000	798 958	758 909	707 848	8,828 9,675
H2in14		\^\3	1.50	38.1	18,175	16,661	16,055	15,550	14,793	13,934	12,773	7,039	1,230	1,144	1,107	1,000	1,029	977	911	10,208
H3in27	3 in	Std-40-40S	3.06	77.8	7,877	7,221	6,958	6,739	6,411	6,039	5,536	7,597	533	496	480	466	446	424	395	10,442
H3in27		XS-80-80S	3.06	77.8	7,877	7,221	6,958	6,739	6,411	6,039	5,536	7,597	533	496	480	466	446	424	395	10,442
H3in25 H3in23		160 XXS	2.67 2.38	67.9 60.3	10,767 13,174	9,869 12,076	9,511 11,637	9,212 11,271	8,763 10,722	8,254 10,100	7,567 9,258	9,278 10,189	729 892	677 829	656 802	637 779	610 746	579 708	540 660	12,751 14,003
H3in20		7003	2.06	52.4	15,924	14,597	14,066	13,624	12,961	12,209	11,191	11,145	1,078	1,002	970	942	902	856	798	15,317
H4in40	4 in	Std-40-40S	4.06	103.2	7,103	6,511	6,275	6,077	5,781	5,446	4,992	13,823	481	447	433	420	402	382	356	18,998
H4in40		XS-80-80S	4.06	103.2	7,103	6,511	6,275	6,077	5,781	5,446	4,992	13,823	481	447	433	420	402	382	356	18,998
H4in34 H4in31		160 XXS	3.69 3.25	93.7 82.6	9,350 12,006	8,571 11,006	8,259 10,605	7,999 10,272	7,610 9,772	7,168 9,205	6,571 8,438	16,489 18,993	633 813	588 755	569 731	553 710	529 680	503 646	469 602	22,662 26,104
H4in27			3.06	77.8	13,222	12,120	11,679	11,312	10,761	10,137	9,292	19,857	895	832	805	782	749	711	663	27,292
H4in25		(5)	2.67	67.9	15,913	14,587	14,057	13,615	12,951	12,200	11,183	21,718	1,077	1,001	969	941	901	856	798	29,849
H8in56 H8in52	6in	80-80S-120 ⁽⁵⁾ 160-XXS ⁽⁵⁾	5.75 5.31	146.1 135.0	10,881 12,544	9,974 11,499	9,611 11,081	9,309 10,732	8,856 10,210	8,342 9,617	7,647 8,816	80,043 85,208	736 849	685 789	663 764	643 742	616 710	585 675	545 629	110,010 117,108
H8in46		100 ///3 · ·	5.31	135.0	14,830	13,594	13,100	12,688	12,070	11,369	10,422	92,688	1,004	933	903	877	840	797	743	127,388
H8in82	8 in	Std-40-40S	8.25	209.6	1,955	1,792	1,727	1,673	1,591	1,499	1,374	27,337	132	123	119	116	111	105	98	37,572
H8in76		XS-80-80S	7.75	196.9	3,196	2,930	2,823	2,735	2,601	2,451	2,246	36,295	216	201	195	189	181	172	160	49,883
H8in72 H8in67		120-140 XXS-160	7.25 6.88	184.2 174.6	4,794 6,274	4,395 5,752	4,235 5,542	4,102 5,368	3,902 5,107	3,675 4,810	3,369 4,409	50,963 58,278	324 425	302 395	292 382	284 371	271 355	258 337	240 315	70,042 80,097
H8in64		7005 100	6.50	165.1	8,053	7,382	7,113	6,890	6,554	6,174	5,659	66,221	545	507	490	476	456	433	404	91,013
H8in62			6.07	154.1	9,746	8,934	8,609	8,338	7,932	7,472	6,849	73,278	660	613	594	576	552	524	489	100,712
H10in102	10 in	Std-40-40S XS-60-80-80S	10.25	260.4	1,879	1,722	1,660	1,607	1,529	1,440	1,320	48,152	127 176	118	114	111	106	101	94	66,179
H10in97 H10in94		120-100	9.88 9.50	250.8 241.3	2,604 3,455	2,387 3,167	2,300 3,052	2,228 2,956	2,119 2,812	1,996 2,649	1,830 2,428	62,520 76,638	234	164 217	159 210	154 204	147 196	140 186	131 173	85,927 105,330
H10in87		XXS-140	8.88	225.4	5,186	4,754	4,581	4,437	4,221	3,976	3,644	98,258	351	326	316	307	294	279	260	135,044
H10in84		160	8.50	215.9	6,444	5,907	5,692	5,513	5,245	4,940	4,529	110,243	436	405	392	381	365	347	323	151,516
H10in82 H10in76			8.25 7.75	209.6 196.9	7,392 8,878	6,776 8,138	6,530 7,842	6,324 7,595	6,016 7,225	5,667 6,806	5,195 6,239	115,962 131,436	500 601	465 559	450 541	437 525	419 503	397 477	371 445	159,376 180,643
H12in120	12 in	Std-40-40S	12.00	304.8	2,458	2,253	2,172	2,103	2,001	1,885	1,728	103,193	166	155	150	145	139	132	123	141,826
H12in116		XS-80-80S	11.75	298.5	2,895	2,654	2,558	2,477	2,357	2,220	2,035	116,057	196	182	176	171	164	156	145	159,507
H12in112		100	11.25	285.8	3,930	3,603	3,472	3,362	3,199	3,013	2,762	144,144	266	247	239	232	223	211	197	198,109
H12in106 H12in102		XXS-120-140 N.a.	10.75 10.25	273.1 260.4	5,128 6,531	4,700 5,986	4,529 5,769	4,387 5,587	4,173 5,315	3,931 5,007	3,603 4,590	166,279 188,792	347 442	323 411	312 398	303 386	290 370	276 351	257 327	228,531 259,472
H12in97		IV.a.	9.88	250.8	7,695	7,053	6,797	6,583	6,263	5,899	5,408	206,611	521	484	469	455	436	414	386	283,962
H14in134	14 in	40	13.50	342.9	3,255	2,983	2,875	2,785	2,649	2,495	2,287	201,560	220	205	198	192	184	175	163	277,020
H14in130		XS	13.00	330.2	4,170	3,823	3,684	3,568	3,394	3,197	2,931	236,084	282	262 329	254 319	247 309	236 296	224	209	324,469
H14in124 H14in120		80-100 120	12.50 12.00	317.5 304.8	5,233 6,502	4,797 5,961	4,622 5,744	4,477 5,563	4,259 5,292	4,012 4,985	3,678 4,570	272,253 301,915	354 440	409	396	385	368	281 350	262 326	374,179 414,946
H14in116		140	11.75	298.5	7,137	6,542	6,304	6,106	5,808	5,471	5,015	316,216	483	449	435	422	404	384	358	434,601
H14in112		160	11.25	285.8	8,488	7,781	7,498	7,262	6,909	6,508	5,965	351,486	575	534	517	502	481	456	426	483,076
H14in106 H16in152	16 in	XS-40-60	10.75 15.25	273.1 387.4	9,300 4,155	8,696 3,808	8,379 3,670	8,116 3,555	7,721 3,381	7,273 3,185	6,667 2,920	362,652 370,670	632 281	597 261	578 253	561 246	537 235	510 223	476 208	498,422 509,442
H16in144	10111	80	14.50	368.3	5,543	5,081	4,897	4,743	4,512	4,250	3,896	438,346	375	349	338	328	314	298	278	602,454
H16in140		100	14.00	355.6	6,610	6,060	5,839	5,656	5,380	5,068	4,646	480,142	447	416	403	391	374	355	331	659,899
H16in137		120	13.88	352.4	6,898	6,323	6,093	5,901	5,614	5,288	4,847	491,311	467	434	420	408	391	371	346	675,248
H16in134 H16in130		140 160	13.50 13.00	342.9 330.2	7,607 8,444	6,973 7,740	6,720 7,459	6,508 7,224	6,191 6,872	5,832 6,474	5,346 5,934	514,233 550,119	515 571	479 531	463 514	450 499	431 478	409 454	381 423	706,752 756,074
H16in120			12.00	304.8	10,197	9,347	9,007	8,724	8,299	7,817	7,166	617,536	690	642	621	603	577	548	511	848,731
H16in112			11.25	285.8	11,585	10,620	10,234	9,912	9,429	8,882	8,142	673,406	784	729	706	685	656	623	581	925,516
H18in170 H18in160	18 in	40-60 80-100	17.00 16.00	431.8 406.4	2,749 4,221	2,520 3,870	2,428 3,729	2,352 3,612	2,237 3,436	2,107 3,236	1,932 2,967	326,249 435,352	186 286	173 266	167 257	163 250	156 239	148 227	138 212	448,391 598,340
H18in152		120-140	15.25	387.4	5,548	5,086	4,901	4,747	4,516	4,254	3,899	509,568	376	349	338	328	314	298	278	700,340
H18in144		160	14.50	368.3	7,099	6,519	6,282	6,085	5,788	5,452	4,998	577,436	481	448	433	421	403	382	357	793,617
H18in140	20:5	40	14.00	355.6	7,601	7,287	7,022	6,801	6,470	6,094	5,587	619,125	519	500	484	470	450	427	398	850,913
H20in192 H20in185	20 in	40 60	19.25 18.63	489.0 473.1	3,039 3,805	2,785 3,488	2,684 3,361	2,600 3,255	2,473 3,097	2,330 2,917	2,135 2,674	531,283 617,367	206 258	191 239	185 232	180 225	172 215	163 205	152 191	730,186 848,498
H20in180		80-100	18.00	457.2	4,731	4,337	4,179	4,048	3,851	3,627	3,325	700,521	320	298	288	280	268	254	237	962,783
H20in170		120-140	17.00	431.8	6,401	5,868	5,654	5,477	5,210	4,908	4,499	823,066	433	403	390	379	363	344	321	1,131,207
H20in160 H20in152		160	16.00 15.25	406.4 387.4	8,114 9,173	7,438 8,409	7,167 8,103	6,942 7,848	6,604 7,466	6,221 7,033	5,702 6,447	933,177 1,006,552	549 621	511 577	494 559	480 543	460 519	436 493	407 460	1,282,542 1,383,387
H22in210	22 in	40-60	21.00	533.4	1,875	1,718	1,656	1,604	1,526	1,437	1,317	418,659	127	118	114	111	106	101	94	575,398
H22in200		80	20.00	508.0	2,907	2,664	2,568	2,487	2,366	2,228	2,043	576,747	197	183	177	172	165	156	146	792,670
H22in192		100-120	19.25	489.0	3,814	3,496	3,369	3,263	3,104	2,924	2,681	688,914	258	240	232	226	216	205	191	946,831
H22in185 H22in180		140 160	18.63 18.00	473.1 457.2	4,635 5,632	4,248 5,162	4,094 4,974	3,965 4,818	3,772 4,583	3,553 4,317	3,257 3,958	774,578 856,946	314 381	292 354	282 343	274 333	262 319	249 303	232 282	1,064,566 1,177,771
H22in170			17.00	431.8	6,797	6,231	6,004	5,815	5,532	5,211	4,777	978,661	460	428	414	402	385	365	341	1,345,053
H22in160			16.00	406.4	7,523	6,896	6,646	6,437	6,123	5,768	5,287	1,012,160	509	473	458	445	426	405	377	1,391,094
H24in232	24 in	40	23.25	590.6	2,621	2,403	2,315	2,243	2,133	2,010	1,842	808,896	177	165	160	155	148	141	131	1,111,731
H24in225 H24in220		40 60-80	22.63 22.00	574.7 558.8	3,220 3,927	2,952 3,600	2,845 3,469	2,755 3,360	2,621 3,197	2,469 3,011	2,263 2,760	933,846 1,055,240	218 266	203 247	196 239	190 232	182 222	173 211	161 197	1,283,461 1,450,303
H24in210		100-120	21.00	533.4	5,174	4,743	4,570	4,426	4,211	3,967	3,636	1,237,132	350	326	315	306	293	278	259	1,700,291
H24in200		140-160	20.00	508.0	5,704	5,228	5,038	4,880	4,642	4,373	4,008	1,393,251	386	359	347	337	323	307	286	1,914,859
H24in192	26:-		19.25	489.0	6,071	5,565	5,363	5,194	4,941	4,655	4,267	1,360,604	411	382	370	359	344	326	304	1,869,989
H26in270 H26in264	26 in		27.00 26.50	685.8 673.1	1,149 1,563	1,053 1,432	1,015 1,380	983 1,337	935 1,272	881 1,198	807 1,098	517,119 670,586	78 106	72 98	70 95	68 92	65 88	62 84	58 78	710,719 921,641
H26in254		STD-XS	25.50	647.7	2,129	1,952	1,881	1,822	1,733	1,632	1,496	845,820	144	134	130	126	121	114	107	1,162,479
H26in244		19.1 mm	24.50	622.3	3,011	2,760	2,660	2,576	2,451	2,309	2,116	1,084,966	204	189	183	178	171	162	151	1,491,157
H26in240		25.4 mm	24.00	609.6	3,503	3,211	3,094	2,997	2,851	2,686	2,462	1,211,074	237	220	213 263	207	198	188	176	1,664,478
H26in232 H26in225		34.9 mm	23.25 22.63	590.6 574.7	4,311 5,020	3,951 4,601	3,808 4,434	3,688 4,294	3,508 4,085	3,305 3,848	3,029 3,528	1,362,178 1,490,122	292 340	271 316	263 306	255 297	244 284	232 270	216 252	1,872,152 2,047,996
																				PT/PT1.1 Rev0



Hub material - ANSI Material Group 1.1 I	Modified to 52 Ksi yield	A350 LF2 (Mod)	
Clamp material :	Low alloy (AISI 4130/40)	Corrosion Allowance :	0.063" (1.6mm)

Techlok size	Nom. Pipe	Schedules	Min b seal	ore of Iring			Pressi	ure Rating	g (psi)			Max Bending Capacity (6)			Pressu	re rating	(bar)			Max Bending Capacity (6)
	Size		ins	mm	0-100°F	200°F	300°F	400°F	500°F	600°F	700°F	(Ft-lbs)	0-50°C	100°C	150°C	200°C	250°C	300°C	350°C	(Nm)
1in11	1 in	Std-40-40S	1.13	28.6	6,038	5,535	5,334	5,166	4,914	4,629	4,327	309	409	380	368	357	342	325	306	425
1in11		XS-80-80S	1.13	28.6	6,038	5,535	5,334	5,166	4,914	4,629	4,327	309	409	380	368	357	342	325	306	425
1in8		XS-80-80S ⁽⁴⁾	1.00	25.4	9,501	8,710	8,393	8,129	7,733	7,284	6,809	434	643	598	579	562	538	511	482	596
1in7		160	0.91	23.0	12,319	11,293	10,882	10,540	10,026	9,445	8,829	500	834	775	750	729	698	662	625	687
1in5		XXS	0.63	15.9	22,079	20,239	19,503	18,890	17,970	16,927	15,823	677	1,494	1,389	1,345	1,306	1,250	1,187	1120	930
1in4	4 5 1	C1 1 40 40C	0.50	12.7	27,298	25,023	24,113	23,355	22,217	20,928	19,564	738	1,848	1,718	1,663	1,614	1,546	1,468	1385	1,014
1.5in14	1.5 in	Std-40-40S	1.61	40.9	10,380	9,515	9,169	8,881	8,448	7,958	7,439	1,711	703	653	632	614	588	558	527	2,352
1.5in13		XS-80-80S	1.50	38.1	12,486	11,446	11,030	10,683	10,163	9,573	8,949	2,055	845	786	760	738	707	671	633	2,824
1.5in13		160 XXS	1.50 1.13	38.1	12,486	11,446	11,030	10,683	10,163	9,573	8,949	2,055	845	786	760	738 1.211	707	671	633 1039	2,824
1.5in11 2in20	2 in	Std-40-40S	2.06	28.6 52.4	20,477 9,044	18,771 8,291	18,088 7,989	17,519	16,666	15,699 6,934	14,675 6,482	2,609 2,516	1,386	1,289 569	1,247 551	535	1,160 512	1,101 486		3,586 3,458
2in20 2in20	2 111	XS-80-80S	2.06	52.4 52.4	9,044	8,291	7,989	7,738 7,738	7,361 7,361	6,934	6,482	2,516	612 612	569 569	551 551	535 535	512	486 486	459 459	3,458
2in20 2in16		160	1.87	47.4	12,069	11,063	10,661	10,326	9,823	9,253	8,650	3,037	817	759	735	714	683	649	612	4,174
2in10 2in14		XXS	1.61	40.9	16,481	15.107	14.558	14.100	13,413	12.635	11.811	3,728	1.115	1.037	1.004	975	933	886	836	5,124
2in13		1000	1.50	38.1	18,495	16.954	16.337	15.823	15,053	14.179	13.255	4,139	1,252	1.164	1.126	1.094	1.047	994	938	5,689
3in27		Std-40-40S	3.06	77.8	6,563	6,016	5.798	5,615	5,342	5,032	4.704	5,329	444	413	400	388	372	353	333	7,324
3in27		XS-80-80S	3.06	77.8	6,563	6,016	5,798	5,615	5,342	5,032	4,704	5,329	444	413	400	388	372	353	333	7,324
3in25		160	2.67	67.9	11.794	10.811	10.418	10.091	9,599	9.042	8,453	7,544	798	742	718	698	668	634	598	10,368
3in23		XXS	2.38	60.3	15,376	14,095	13,582	13,155	12,514	11,788	11,020	8,852	1,041	968	936	909	871	827	780	12,166
3in20			2.06	52.4	19,505	17,880	17,230	16,688	15,875	14,954	13,979	10,139	1,320	1,227	1,188	1.154	1,105	1,049	989	13,935
4in40	4 in	Std-40-40S	4.06	103.2	4,226	3,874	3,733	3,615	3,439	3,240	3,028	7,736	286	266	257	250	239	227	214	10,632
4in40		XS-80-80S	4.06	103.2	4,226	3,874	3,733	3,615	3,439	3,240	3,028	7,736	286	266	257	250	239	227	214	10,632
4in34		160	3.69	93.7	7,882	7,225	6,962	6,743	6,415	6,043	5,649	11,190	533	496	480	466	446	424	400	15,379
4in31		XXS	3.25	82.6	12,932	11,854	11,423	11,064	10,525	9,915	9,268	14,619	875	814	788	765	732	695	656	20,092
4in27			3.06	77.8	14,753	13,524	13,032	12,622	12,008	11,311	10,573	15,883	999	928	899	873	836	793	748	21,829
4in25			2.67	67.9	18,819	17,251	16,624	16,101	15,317	14,428	13,487	18,423	1,274	1,184	1,146	1,113	1,066	1,012	955	25,320
5in52	5 in	Std-40-40S	5.31	135.0	4,489	4,115	3,966	3,841	3,654	3,442	3,217	17,467	304	282	273	266	254	241	228	24,006
5in50		XS-80-80S	5.00	127.0	6,532	5,988	5,770	5,589	5,317	5,008	4,681	22,450	442	411	398	386	370	351	331	30,855
5in46		160	4.75	120.7	8,711	7,985	7,695	7,453	7,090	6,679	6,243	26,221	590	548	531	515	493	468	442	36,038
5in42		XXS	4.19	106.4	12,164	11,941	11,506	11,145	10,602	9,987	9,335	34,083	835	820	793	770	738	700	661	46,843
5in40			4.06	103.2	12,886	12,886	12,740	12,339	11,739	11,057	10,336	35,091	888	887	878	853	817	776	732	48,228
5in34			3.69	93.7	15,905	15,905	15,339	14,856	14,133	13,313	12,445	38,861	1,097	1,092	1,058	1,027	983	934	881	53,410
5in31			3.25	82.6	20,243	19,313	18,611	18,026	17,148	16,153	15,099	42,416	1,382	1,326	1,283	1,246	1,193	1,133	1069	58,296
6in62	6 in	Std-40-40S	6.07	154.1	5,245	4,808	4,633	4,487	4,269	4,021	3,759	33,203	355	330	319	310	297	282	266	45,634
6in56		XS-80-80S-120	5.75	146.1	8,087	7,413	7,144	6,919	6,582	6,200	5,796	42,463	547	509	493	478	458	435	410	58,360
6in54		120 (4)	5.50	139.7	10,049	9,211	8,876	8,597	8,178	7,704	7,201	46,531	680	632	612	594	569	540	510	63,951
6in52		160-XXS	5.31	135.0	10,806	10,714	10,324	10,000	9,513	8,961	8,376	49,962	744	735	712	691	662	628	593	68,667
6in46		XXS	4.75	120.7	13,392	13,392	13,392	12,987	12,354	11,637	10,878	59,721	923	923	923	898	860	816	770	82,079
6in42			4.19	106.4	17,039	16,999	16,381	15,866	15,093	14,217	13,290	68,948	1,174	1,167	1,129	1,097	1,050	997	941	94,761
6in40	0.	C1 1 40 40C	4.06	103.2	18,051	18,051	17,558	17,006	16,177	15,239	14,245	69,184	1,245	1,240	1,211	1,176	1,126	1,069	1008	95,085
8in82	8 in	Std-40-40S	8.25	209.6	3,672	3,366	3,244	3,142	2,989	2,815	2,632	54,814	249	231	224	217	208	197	186	75,335
8in76		XS-80-80S	7.75	196.9	5,663	5,191	5,002	4,845	4,609	4,342	4,059	74,013	383	356	345	335	321	305	287	101,722
8in76		100 120-140	7.75 7.25	196.9 184.2	5,663	5,191	5,002 7.216	4,845	4,609	4,342	4,059	74,013	383 553	356 514	345 498	335 483	321	305 439	287	101,722
8in72			6.88	184.2 174.6	8,169 9,949	7,488 9.592	,	6,989	6,649	6,263	5,854	91,387	681	514 658	498 637	483 619	463 593		414 531	125,601
8in67 8in62		XXS-160	6.88	174.6	12.610	12.610	9,244 12.610	8,953 12.610	8,517	8,023 12.035	7,500 11.250	102,123	869	658 869	637 869	869	593 869	563 841	796	140,356
8in56			5.75	146.1	14,739	14,739	14,739	,	12,610 14,004	13,191	12,331	124,152 134,658	1,016		1,016	1,015	974	925	873	170,632 185,071
01110			5.75	140.1	14,739	14,739	14,/39	14,721	14,004	15,191	12,531	154,058	1,016	1,016	1,016	1,015	9/4	925	0/3	100,071

Light Duty Series

Techlok size	Nom. Pipe	Schedules	Min b seal				Pressu	ıre Ratin	g (psi)			Max Bending Capacity (6)			Pressu	ıre rating	g (bar)			Max Bending Capacity (6)
	Size		ins	mm	0-100°F	200°F	300°F	400°F	500°F	600°F	700°F	(Ft-lbs)	0-50°C	100°C	150°C	200°C	250°C	300°C	350°C	(Nm)
L14in134	14in	40	13.50	342.9	2,835	2,599	2,504	2,426	2,308	2,174	2,032	175,777	192	178	173	168	161	152	144	241,585
L14in130		XS	13.00	330.2	3,946	3,617	3,486	3,376	3,211	3,025	2,828	223,271	267	248	240	233	223	212	200	306,860
L14in124		80-100	12.50	317.5	5,188	4,755	4,582	4,438	4,222	3,977	3,718	269,544	351	326	316	307	294	279	263	370,456
L14in120		120	12.00	304.8	5,915	5,915	5,915	5,887	5,601	5,276	4,932	317,850	408	408	408	406	390	370	349	436,847
L14in116		140	11.75	298.5	6,136	6,136	6,136	6,136	5,985	5,637	5,270	335,713	423	423	423	423	414	395	373	461,398
L14in112		160	11.25	285.8	6,701	6,701	6,701	6,701	6,526	6,147	5,746	386,324	462	462	462	462	452	431	407	530,957
L16in152	16in	XS-40-60	15.25	387.4	3,260	2,988	2,880	2,789	2,653	2,499	2,336	293,435	221	205	199	193	185	175	165	403,292
L16in144		80	14.50	368.3	4,600	4,450	4,288	4,153	3,951	3,722	3,479	386,022	315	305	296	287	275	261	246	530,542
L16in140		100	14.00	355.6	4,925	4,925	4,832	4,680	4,452	4,194	3,920	444,267	340	339	333	323	310	294	277	610,592
L16in137		120	13.88	352.4	5,012	5,012	4,913	4,758	4,527	4,264	3,986	459,568	346	345	339	329	315	299	282	631,622
L16in134		140	13.50	342.9	5,286	5,286	5,166	5,004	4,760	4,484	4,192	490,974	364	363	356	346	331	314	297	674,786
L16in130		160	13.00	330.2	5,687	5,687	5,537	5,363	5,102	4,806	4,492	479,500	392	391	382	371	355	337	318	659,016
L18in170	18in	40-60	17.00	431.8	3,427	3,289	3,169	3,070	2,920	2,751	2,571	444,343	234	226	219	212	203	193	182	610,697
L18in160		80-100	16.00	406.4	3,861	3,861	3,861	3,861	3,861	3,745	3,500	609,883	266	266	266	266	266	260	248	838,212
L18in152		120-140	15.25	387.4	4,240	4,240	4,240	4,240	4,240	4,090	3,823	648,939	292	292	292	292	292	285	271	891,890
L18in144		160	14.50	368.3	4,678	4,678	4,678	4,678	4,678	4,487	4,194	628,785	323	323	323	323	323	313	297	864,190
L20in192	20in	40	19.25	489.0	3,631	3,431	3,306	3,202	3,046	2,869	2,682	673,558	247	236	228	221	212	201	190	925,726
L20in185		60	18.63	473.1	3,849	3,630	3,498	3,388	3,223	3,036	2,838	783,843	262	249	241	234	224	213	201	1,077,299
L20in180		80-100	18.00	457.2	4,141	3,886	3,745	3,627	3,450	3,250	3,038	819,740	282	267	258	251	240	228	215	1,126,636
L20in170		120-140	17.00	431.8	4,631	4,309	4,153	4,022	3,826	3,604	3,369	790,010	314	296	286	278	266	253	238	1,085,775
L20in160		160	16.00	406.4	5,218	4,822	4,647	4,501	4,282	4,033	3,770	760,825	354	331	320	311	298	283	267	1,045,664
L24in225	24in	40	22.63	574.7	3,325	3,325	3,325	3,325	3,325	3,325	3,129	1,283,670	229	229	229	229	229	229	221	1,764,252
L24in220		60-80	22.00	558.8	3,532	3,532	3,532	3,532	3,532	3,532	3,316	1,465,609	244	244	244	244	244	244	234	2,014,306
L24in210		100-120	21.00	533.4	3,870	3,870	3,870	3,870	3,870	3,863	3,611	1,552,162	267	267	267	267	267	266	256	2,133,263
L24in200		140-160	20.00	508.0	4,262	4,262	4,262	4,262	4,262	4,230	3,954	1,493,040	294	294	294	294	294	292	280	2,052,007

NOTES:

- 1) Pressure ratings based upon requirements of ASME VIII Div 2 Part 5 2) Max hydrotest = 1.5 x rated pressure. 3) Pressure ratings shown are based upon the hub bore being equal to the sealring bore.
- 4) Optional sealring sizes for pipe schedules shown.
 5) Optional pipe selection for high pressure applications.
 6) See page 9 for bending moment calculation method
 7) Pressure ratings do not reflect the pressure capacity of the adjoining pipe.
- Doc VI/PT/PT1.1 Rev0





Heavy Duty Series

Hub material - ANSI Material Group 1.1 Modified to 52 Ksi yield A350 LF2 (Mod) Clamp material : Low alloy (AISI 4130/40) Corrosion Allowance: 0.063" (1.6mm)

Techlok	Nom.	Schedules	Min b				Pressu	ure Rating	g (psi)			Max Bending Capacity (6)			Pressu	ıre ratinş	g (bar)			Max Bending
size	Pipe Size		ins	ring mm	0-100°F	200°F	300°F	400°F	500°F	600°F	700°F	(Ft-lbs)	0-50°C	100°C	150°C	200°C	250°C	300°C	350°C	Capacity (6)
H2in20	2 in	Std-40-40S	2.06	52.4	17,529	16,068	15,484	14,997	14,267	13,439	12,563	8,824	1,186	1,103	1,068	1,037	993	943	889	12,128
H2in20		XS-80-80S	2.06	52.4 47.4	17,529	16,068	15,484	14,997	14,267	13,439	12,563	8,824	1,186	1,103	1,068	1,037	993	943	889	12,128
H2in16 H2in14		XXS	1.87 1.61	40.9	20,366 24,428	18,669 22,392	17,990 21,578	17,424 20,899	16,575 19,882	15,614 18,728	14,595 17,507	9,278 10,168	1,378 1,653	1,282 1,537	1,240 1,488	1,204 1,445	1,153 1,383	1,095 1,314	1033 1239	12,752 13,975
H2in13	2 !	C+1 40 40C	1.50	38.1	26,253	24,065	23,190	22,461	21,367	20,127	18,815	10,728	1,777	1,652	1,599	1,553	1,487	1,412	1332	14,744
H3in27 H3in27	3 in	Std-40-40S XS-80-80S	3.06 3.06	77.8 77.8	11,378 11,378	10,430 10,430	10,051 10,051	9,735 9,735	9,261 9,261	8,723 8,723	8,154 8,154	10,974 10,974	770	716 716	693 693	673 673	644 644	612 612	577 577	15,082 15,082
H3in25		160	2.67	67.9	15,552	14,256	13,738	13,306	12,658	11,923	11,146	13,401	1,053	979	947	920	881	836	789	18,418
H3in23 H3in20		XXS	2.38	60.3 52.4	19,029	17,443 21,085	16,809 20,318	16,280 19,679	15,487 18,721	14,589 17,635	13,637 16,485	14,717 16,098	1,288	1,197 1,447	1,159 1,401	1,125 1,360	1,078 1,303	1,023 1,237	965 1167	20,227 22,125
H4in40	4 in	Std-40-40S	4.06	103.2	10,260	9,405	9,063	8,778	8,351	7,866	7,353	19,966	694	646	625	607	581	552	520	27,441
H4in40 H4in34		XS-80-80S 160	4.06 3.69	103.2 93.7	10,260 13,505	9,405 12,380	9,063 11,930	8,778 11,555	8,351 10,992	7,866 10,354	7,353 9,679	19,966 23,817	694 914	646 850	625 823	607 799	581 765	552 726	520 685	27,441 32,734
H4in31		XXS	3.25	82.6	17,342	15,897	15,319	14,837	14,115	13,296	12,429	27,435	1,174	1,091	1,056	1,026	982	933	880	37,706
H4in27			3.06	77.8	19,098	17,506	16,870	16,339	15,544	14,642	13,687	28,683	1,293	1,202	1,163	1,129	1,082	1,027	969	39,421
H4in25 H8in56	6in	80-80S-120 (5)	2.67 5.75	67.9 146.1	22,986 15,033	21,070 14,407	20,304 13,883	19,665 13,446	18,708 12,792	17,622 12,049	16,473 11,264	31,371 115,618	1,556	1,446 989	1,400 957	1,359 929	1,302 890	1,236 845	1166 797	43,116 158,903
H8in52		160-XXS (5)	5.31	135.0	17,506	16,610	16,006	15,502	14,747	13,892	12,986	123,078	1,193	1,140	1,104	1,072	1,026	974	919	169,156
H8in46	O im	C+4 40 40C	5.31	135.0	21,421	19,636	18,922	18,327	17,434	16,422	15,351	133,882	1,450	1,348	1,305	1,267	1,213	1,152	1086	184,005
H8in82 H8in76	8 in	Std-40-40S XS-80-80S	8.25 7.75	209.6 196.9	2,824 4,617	2,589 4,232	2,495 4,078	2,416 3,950	2,299 3,758	2,165 3,540	2,024 3,309	39,487 52,426	191 312	178 291	172 281	167 273	160 261	152 248	143 234	54,270 72,053
H8in72		120-140	7.25	184.2	6,925	6,348	6,117	5,925	5,636	5,309	4,963	73,613	469	436	422	410	392	372	351	101,172
H8in67 H8in64		XXS-160	6.88 6.50	174.6 165.1	9,063 11,220	8,308 10,663	8,006 10,275	7,754 9,952	7,376 9,467	6,948 8,918	6,495 8,336	84,180 95,653	613 765	570 732	552 708	536 688	513 659	487 625	460 590	115,695 131,464
H8in62			6.07	154.1	12,793	12,793	12,435	12,044	11,457	10,793	10,089	105,846	882	879	857	833	797	757	714	145,473
H10in102	10 in	Std-40-40S	10.25	260.4	2,714	2,488	2,397	2,322	2,209	2,081	1,945	69,553	184	171	165	161	154	146	138	95,592
H10in97 H10in94		XS-60-80-80S 120-100	9.88 9.50	250.8 241.3	3,761 4,991	3,448 4,575	3,323 4,409	3,218 4,270	3,061 4,062	2,884 3,826	2,696 3,577	90,307 110,699	255 338	237 314	229 304	222 295	213 283	202 268	191 253	124,116 152,143
H10in87		XXS-140	8.88	225.4	7,491	6,866	6,617	6,409	6,097	5,743	5,368	141,928	507	471	456	443	424	403	380	195,063
H10in84 H10in82		160	8.50 8.25	215.9 209.6	9,308 10,132	8,532 9,788	8,222 9,432	7,964 9,135	7,576 8,690	7,136 8,186	6,671 7,652	159,240 167,501	630 693	586 672	567 650	550 631	527 605	501 574	472 542	218,857 230,210
H10in82			7.75	196.9	11,413	11,413	11,327	10,971	10,437	9,831	9,190	189,852	787	786	781	758	726	690	650	260,929
H12in120	12 in	Std-40-40S	12.00	304.8	3,551	3,255	3,137	3,038	2,890	2,722	2,545	149,056	240	223	216	210	201	191	180	204,860
H12in116 H12in112		XS-80-80S 100	11.75 11.25	298.5 285.8	4,182 5,677	3,834 5,204	3,694 5,014	3,578 4,857	3,404 4,620	3,206 4,352	2,997 4,068	167,638 208,208	283 384	263 357	255 346	247 336	237 321	225 305	212 288	230,399 286,157
H12in112		XXS-120-140	10.75	273.1	7,406	6,789	6,542	6,337	6,028	5,678	5,308	240,181	501	466	451	438	419	398	376	330,100
H12in102		N.a.	10.25	260.4	8,341	8,341	8,333	8,071	7,678	7,232	6,760	272,699	575	575	575	558	534	507	478	374,792
H12in97 H14in134	14 in	40	9.88 13.50	250.8 342.9	8,961 4,701	8,961 4,309	8,961 4,153	8,961 4,022	8,961 3,826	8,521 3,604	7,965 3,369	298,438 291,142	618 318	618 296	618 286	618 278	618 266	596 253	564 238	410,168 400,140
H14in130		XS	13.00	330.2	6,023	5,521	5,321	5,153	4,902	4,618	4,317	341,010	408	379	367	356	341	324	306	468,678
H14in124 H14in120		80-100 120	12.50 12.00	317.5 304.8	6,881 7,520	6,881 7,520	6,677 7,520	6,467 7,520	6,152 7,520	5,795 7,201	5,417 6,731	393,254 436,099	474 518	473 518	460 518	447 518	428 518	406 503	383 476	540,481 599,366
H14in116		140	11.75	298.5	7,800	7,800	7,800	7,800	7,800	7,201	7,388	456,756	538	538	538	538	538	538	520	627,757
H14in112		160	11.25	285.8	8,519	8,519	8,519	8,519	8,519	8,519	8,153	507,702	587	587	587	587	587	587	572	697,776
H14in106 H16in152	16 in	XS-40-60	10.75 15.25	273.1 387.4	9,300 6,001	9,300 5,501	9,300 5,301	9,300 5,134	9,300 4,884	9,300 4,601	8,900 4,301	523,830 535.412	641 406	641 378	641 365	641 355	641 340	641 323	624 304	719,942 735,860
H16in144	10111	80	14.50	368.3	8,007	7,340	7,073	6,850	6,517	6,139	5,738	633,166	542	504	488	474	453	431	406	870,212
H16in140		100 120	14.00	355.6	9,289	8,753	8,434	8,169	7,771	7,320	6,843	693,539	632 647	601	582	565 589	541 564	513 536	484 505	953,187
H16in137 H16in134		140	13.88 13.50	352.4 342.9	9,452 9,969	9,133 9,969	8,801 9,706	8,524 9,401	8,109 8,943	7,638 8,424	7,140 7,875	709,671 742,781	687	627 685	607 669	650	622	591	557	975,359 1,020,864
H16in130		160	13.00	330.2	10,727	10,727	10,727	10,435	9,927	9,351	8,741	794,617	740	740	740	721	691	656	619	1,092,107
H16in120 H16in112			12.00 11.25	304.8 285.8	12,526 14,191	12,526 14,191	12,526 14,191	12,526 14,191	11,987 13,620	11,292 12,830	10,555 11,993	891,997 972,697	864 978	864 978	864 978	864 978	833 946	792 900	747 849	1,225,944 1,336,857
H18in170	18 in	40-60	17.00	431.8	3,971	3,640	3,507	3,397	3,232	3,044	2,846	471,249	269	250	242	235	225	214	201	647,676
H18in160		80-100	16.00	406.4	5,860	5,590	5,386	5,217	4,963	4,675	4,370	628,842	400	384	371	361	345	328	309	864,269
H18in152 H18in144		120-140 160	15.25 14.50	387.4 368.3	6,435 7,099	6,435 7,099	6,435 7,099	6,435 7,099	6,435 7,099	6,144 7,099	5,744 6,794	736,042 834,074	444 489	444 489	444 489	444 489	444 489	429 489	406 476	1,011,603 1,146,336
H18in140			14.00	355.6	7,601	7,601	7,601	7,601	7,601	7,601	7,274	894,291	524	524	524	524	524	524	510	1,229,097
H20in192 H20in185	20 in	40 60	19.25 18.63	489.0 473.1	4,389 5,496	4,023 5,038	3,877 4,855	3,755 4,702	3,572 4,473	3,365 4,214	3,146 3,939	767,409 891,753	297 372	276 346	267 335	260 325	249 311	236 296	223 279	1,054,713 1,225,609
H20in185 H20in180		80-100	18.00	473.1 457.2	6,834	6,265	6,037	5,847	5,562	5,240	4,898	1,011,864	463	430	416	325 404	387	367	347	1,390,687
H20in170		120-140	17.00	431.8	9,246	8,476	8,168	7,911	7,525	7,089	6,626	1,188,873	626	582	563	547	524	497	469	1,633,965
H20in160 H20in152		160	16.00 15.25	406.4 387.4	10,468 11,496	10,468 11,496	10,353 11,496	10,027 11,336	9,539 10,784	8,985 10,159	8,399 9,496	1,347,923 1,453,909	722 793	721 793	714 793	693 782	664 750	630 712	594 672	1,852,560 1,998,226
H22in210	22 in	40-60	21.00	533.4	2,708	2,482	2,392	2,317	2,204	2,076	1,941	604,730	183	170	165	160	153	146	137	831,130
H22in200 H22in192		80 100-120	20.00 19.25	508.0 489.0	4,198 5,510	3,849	3,709 4,867	3,592	3,417	3,219	3,009	833,079	284 373	264 347	256 336	248 326	238 312	226 296	213 279	1,144,968 1,367,644
H22in192 H22in185		140	18.63	489.0 473.1	6,462	5,050 6,137	4,867 5,913	4,714 5,727	4,484 5,449	4,224 5,132	3,949 4,798	995,098 1,118,835	441	421	408	326 396	379	360	340	1,587,644
H22in180		160	18.00	457.2	6,954	6,954	6,954	6,954	6,620	6,236	5,830	1,237,811	479	479	479	479	461	437	413	1,701,225
H22in170 H22in160			17.00 16.00	431.8 406.4	7,776 8,762	7,776 8,762	7,776 8,762	7,776 8,762	7,776 8,762	7,527 8,331	7,036 7,788	1,413,621 1,462,009	536 604	536 604	536 604	536 604	536 604	524 583	498 551	1,942,855 2,009,358
H24in232	24 in		23.25	590.6	3,786	3,471	3,344	3,239	3,082	2,903	2,713	1,168,405	256	238	231	224	214	204	192	1,605,834
H24in225		40	22.63	574.7	4,652	4,264	4,109	3,980	3,786	3,566	3,334	1,348,889	315	293	283	275	263	250	236	1,853,888
H24in220 H24in210		60-80 100-120	22.00 21.00	558.8 533.4	5,149 5,641	5,149 5,641	5,011 5,641	4,854 5,641	4,617 5,641	4,349 5,641	4,066 5,356	1,524,236 1,786,968	355 389	354 389	346 389	336 389	321 389	305 389	288 377	2,094,882 2,455,976
H24in200		140-160	20.00	508.0	6,212	6,212	6,212	6,212	6,212	6,212	5,904	2,012,474	428	428	428	428	428	428	415	2,765,907
H24in192	26 !		19.25	489.0	6,695	6,695	6,695	6,695	6,695	6,695	6,285	1,965,317	462	462	462	462	462	462	444	2,701,095
H26in270 H26in264	26 in		27.00 26.50	685.8 673.1	1,659 2,257	1,521 2,069	1,466 1,994	1,419 1,931	1,350 1,837	1,272 1,730	1,189 1,618	746,950 968,624	112 153	104 142	101 137	98 133	94 128	89 121	84 114	1,026,594 1,331,259
H26in254		STD-XS	25.50	647.7	3,075	2,819	2,717	2,631	2,503	2,358	2,204	1,221,740	208	194	187	182	174	165	156	1,679,137
H26in244 H26in240		19.1 mm 25.4 mm	24.50 24.00	622.3 609.6	4,349 4,874	3,987 4,638	3,842 4,470	3,721 4,329	3,540 4,118	3,335 3,879	3,117 3,626	1,567,173 1,749,329	294 332	274 318	265 308	257 299	246 287	234 272	221 257	2,153,894 2,404,245
H26in232		34.9 mm	23.25	590.6	5,188	5,188	5,188	5,188	5,068	4,774	4,462	1,749,329	358	358	358	358	351	335	316	2,404,245
H26in225			22.63	574.7	5,444	5,444	5,444	5,444	5,444	5,444	5,196	2,152,398	375	375	375	375	375	375	365	2,958,216
																				PT/PT1.1 Rev0



Hub material - Carbon-Manganese steel	to 60Ksi yield	A694 F60, A707CL3 and 413	80 (90/60 Ksi)
Clamp material :	Low alloy (AISI 4130/40)	Corrosion Allowance :	0.063" (1.6mm)

Techlok size	Nom. Pipe	Schedules	Min b seal	ore of ring			Pressi	ure Rating	g (psi)			Max Bending Capacity (6)			Pressu	re rating	g (bar)			Max Bending Capacity (6)
	Size		ins	mm	0-100°F	200°F	300°F	400°F	500°F	600°F	700°F	(Ft-lbs)	0-50°C	100°C	150°C	200°C	250°C	300°C	350°C	(Nm)
1in11	1 in	Std-40-40S	1.13	28.6	6,671	6,387	6,154	5,961	5,671	5,342	4,993	357	456	438	424	412	395	375	353	490
1in11		XS-80-80S	1.13	28.6	6,671	6,387	6,154	5,961	5,671	5,342	4,993	357	456	438	424	412	395	375	353	490
1in8		XS-80-80S ⁽⁴⁾	1.00	25.4	10,497	10,049	9,684	9,379	8,923	8,405	7,857	501	717	690	668	648	621	589	556	688
1in7		160	0.91	23.0	13,610	13,030	12,556	12,161	11,569	10,898	10,187	577	930	894	866	841	805	764	721	793
1in5		XXS	0.63	15.9	24,392	23,353	22,504	21,796	20,735	19,532	18,258	781	1,666	1,603	1,552	1,507	1,443	1,370	1292	1,074
1in4	1 5 100	C+4 40 40C	0.50	12.7	30,157	28,873	27,823	26,948	25,636	24,148	22,573	844	2,060	1,982	1,918	1,863	1,784	1,694	1598	1,160
1.5in14 1.5in13	1.5 in	Std-40-40S XS-80-80S	1.61 1.50	40.9 38.1	11,468 13,794	10,979 13,207	10,580 12,726	10,247 12.326	9,748 11,726	9,183 11,046	8,584 10,325	1,974 2,371	783 942	754 907	729 877	708 852	678 816	644 775	608 731	2,713 3,259
1.5in13		160	1.50	38.1	13,794	13,207	12,726	12,326	11,726	11,046	10,325	2,371	942	907	877	852	816	775	731	3,259
1.5in13		XXS	1.13	28.6	22.622	21,659	20.871	20,215	19,230	18.114	16,933	3,010	1,545	1,487	1.439	1.397	1,338	1.270	1198	4,137
2in20	2 in	Std-40-40S	2.06	52.4	9,992	9,566	9,218	8,928	8,494	8,001	7,479	2,903	682	657	636	617	591	561	529	3,990
2in20		XS-80-80S	2.06	52.4	9,992	9,566	9,218	8,928	8,494	8,001	7,479	2,903	682	657	636	617	591	561	529	3,990
2in16		160	1.87	47.4	13.333	12.765	12.301	11.914	11.334	10.677	9.980	3,504	911	876	848	824	789	749	706	4,816
2in14		XXS	1.61	40.9	18,207	17,431	16,797	16,269	15,477	14,579	13,628	4,302	1,244	1,197	1,158	1,125	1,077	1,023	965	5,912
2in13		l i	1.50	38.1	20,432	19,562	18,851	18,258	17,369	16,361	15,294	4,776	1,396	1,343	1,300	1,262	1,209	1,147	1082	6,564
3in27		Std-40-40S	3.06	77.8	7,251	6,942	6,689	6,479	6,164	5,806	5,427	6,149	495	477	461	448	429	407	384	8,451
3in27		XS-80-80S	3.06	77.8	7,251	6,942	6,689	6,479	6,164	5,806	5,427	6,149	495	477	461	448	429	407	384	8,451
3in25		160	2.67	67.9	13,030	12,475	12,021	11,643	11,076	10,433	9,753	8,705	890	856	829	805	771	732	690	11,963
3in23		XXS	2.38	60.3	16,987	16,263	15,672	15,179	14,440	13,602	12,715	10,214	1,160	1,116	1,081	1,049	1,005	954	900	14,038
3in20			2.06	52.4	21,548	20,631	19,880	19,255	18,317	17,255	16,129	11,699	1,472	1,416	1,371	1,331	1,275	1,210	1142	16,079
4in40	4 in	Std-40-40S	4.06	103.2	4,668	4,469	4,307	4,172	3,968	3,738	3,494	8,926	319	307	297	288	276	262	247	12,268
4in40		XS-80-80S	4.06	103.2	4,668	4,469	4,307	4,172	3,968	3,738	3,494	8,926	319	307	297	288	276	262	247	12,268
4in34		160	3.69	93.7	8,707	8,337	8,033	7,781	7,402	6,972	6,518	12,912	595	572	554	538	515	489	461	17,745
4in31		XXS	3.25	82.6	14,287	13,678	13,181	12,766	12,145	11,440	10,694	16,868	976	939	909	882	845	802	757	23,183
4in27			3.06	77.8	16,299	15,605	15,037	14,564	13,855	13,051	12,200	18,327	1,113	1,071	1,037	1,007	964	915	863	25,188
4in25 5in52	5 in	Std-40-40S	2.67 5.31	67.9 135.0	20,791	19,905	19,181 4,576	18,578 4.432	17,673	16,648 3.971	15,562	21,257	1,420 339	1,366 326	1,322 315	1,284 306	1,230 293	1,168 279	1101 263	29,216
5in52 5in50	5 III	XS-80-80S	5.00	135.0	4,960 7,217	4,748 6,909	6,658	6,449	4,216 6,134	5,779	3,712 5,402	20,154 25,904	493	326 474	459	446	293 427	405	382	27,700 35,602
5in46		160	4.75	120.7	9,560	9,214	8,879	8,600	8,181	7,706	7,204	30,255	654	632	612	594	569	540	510	41,582
5in40		XXS	4.19	106.4	12.164	12.164	12.164	12.164	12.164	11.523	10.772	39,327	839	839	839	839	839	807	762	54,050
5in40		70.5	4.06	103.2	12,886	12,886	12,886	12,886	12,886	12,759	11.927	40.490	888	888	888	888	888	882	844	55,648
5in34			3.69	93.7	15,905	15,905	15,905	15,905	15,905	15,361	14,359	44,840	1,097	1.097	1,097	1.097	1.097	1.070	1016	61,627
5in31			3.25	82.6	20,243	20,243	20,243	20,243	19,786	18,638	17,422	44,450	1,396	1,396	1,396	1,396	1,370	1,307	1233	61,091
6in62	6 in	Std-40-40S	6.07	154.1	5,794	5,547	5,346	5,177	4,925	4,639	4,337	38,311	396	381	369	358	343	325	307	52,654
6in56		XS-80-80S-120	5.75	146.1	8,934	8,554	8,243	7,984	7,595	7,154	6,688	48,996	610	587	568	552	528	502	473	67,339
6in54	İ	120 (4)	5.50	139.7	10,110	10,110	10,110	9,920	9,437	8,889	8,309	53,690	697	697	697	685	657	623	588	73,790
6in52		160-XXS	5.31	135.0	10,806	10,806	10,806	10,806	10,806	10,339	9,665	57,648	745	745	745	745	745	722	684	79,231
6in46		XXS	4.75	120.7	13,392	13,392	13,392	13,392	13,392	13,392	12,552	68,909	923	923	923	923	923	923	887	94,707
6in42			4.19	106.4	17,039	17,039	17,039	17,039	17,039	16,405	15,335	79,555	1,175	1,175	1,175	1,175	1,175	1,143	1085	109,339
6in40			4.06	103.2	18,051	18,051	18,051	18,051	18,051	17,583	16,436	76,220	1,245	1,245	1,245	1,245	1,245	1,221	1163	104,755
8in82	8 in	Std-40-40S	8.25	209.6	4,057	3,884	3,743	3,625	3,449	3,249	3,037	63,247	277	267	258	251	240	228	215	86,925
8in76		XS-80-80S	7.75	196.9	6,256	5,990	5,772	5,591	5,318	5,010	4,683	85,400	427	411	398	386	370	351	331	117,372
8in76		100	7.75	196.9	6,256	5,990	5,772	5,591	5,318	5,010	4,683	85,400	427	411	398	386	370	351	331	117,372
8in72		120-140	7.25	184.2	8,998	8,640	8,326	8,064	7,672	7,226	6,755	105,447	615	593	574	557	534	507	478	144,924
8in67		XXS-160	6.88	174.6	9,949	9,949	9,949	9,949	9,827	9,257	8,653	117,834	686	686	686	686	679	649	612	161,949
8in62			6.07	154.1	12,610	12,610	12,610	12,610	12,610	12,610	12,068	143,252	869	869	869	869	869	869	846	196,883
8in56			5.75	146.1	14,739	14,739	14,739	14,739	14,739	14,739	14,105	155,375	1,016	1,016	1,016	1,016	1,016	1,016	989	213,544

Light Duty Series

Techlok size	Nom. Pipe Size	Schedules	Min b seal				Pressu	ure Rating	g (psi)			Max Bending Capacity (6)			Pressu	ıre rating	g (bar)			Max Bending Capacity (6)
	Size		ins	mm	0-100°F	200°F	300°F	400°F	500°F	600°F	700°F	(Ft-lbs)	0-50°C	100°C	150°C	200°C	250°C	300°C	350°C	(Nm)
L14in134	14in	40	13.50	342.9	3,132	2,999	2,890	2,799	2,663	2,508	2,345	202,820	214	206	199	193	185	176	166	278,752
L14in130		XS	13.00	330.2	4,359	4,174	4,022	3,895	3,706	3,491	3,263	257,620	298	286	277	269	258	245	231	354,069
L14in124		80-100	12.50	317.5	5,413	5,413	5,287	5,121	4,872	4,589	4,290	311,012	373	372	365	354	339	322	304	427,450
L14in120		120	12.00	304.8	5,915	5,915	5,915	5,915	5,915	5,915	5,661	366,750	408	408	408	408	408	408	397	504,054
L14in116		140	11.75	298.5	6,136	6,136	6,136	6,136	6,136	6,136	5,872	387,361	423	423	423	423	423	423	412	532,382
L14in112		160	11.25	285.8	6,701	6,701	6,701	6,701	6,701	6,701	6,413	445,758	462	462	462	462	462	462	450	612,642
L16in152	16in	XS-40-60	15.25	387.4	3,601	3,448	3,323	3,218	3,061	2,884	2,696	338,579	246	237	229	222	213	202	191	465,337
L16in144		80	14.50	368.3	4,600	4,600	4,600	4,600	4,559	4,294	4,014	445,410	317	317	317	317	315	301	284	612,163
L16in140		100	14.00	355.6	4,925	4,925	4,925	4,925	4,925	4,839	4,523	512,616	340	340	340	340	340	335	320	704,530
L16in137		120	13.88	352.4	5,012	5,012	5,012	5,012	5,012	4,920	4,599	530,271	346	346	346	346	346	341	325	728,794
L16in134		140	13.50	342.9	5,286	5,286	5,286	5,286	5,286	5,174	4,837	566,508	364	364	364	364	364	359	342	778,599
L16in130		160	13.00	330.2	5,687	5,687	5,687	5,687	5,687	5,545	5,184	553,269	392	392	392	392	392	385	367	760,403
L18in170	18in	40-60	17.00	431.8	3,427	3,427	3,427	3,427	3,370	3,174	2,967	512,703	236	236	236	236	233	223	210	704,650
L18in160		80-100	16.00	406.4	3,861	3,861	3,861	3,861	3,861	3,861	3,695	703,711	266	266	266	266	266	266	259	967,168
L18in152		120-140	15.25	387.4	4,240	4,240	4,240	4,240	4,240	4,240	4,058	705,379	292	292	292	292	292	292	285	969,460
L18in144		160	14.50	368.3	4,678	4,678	4,678	4,678	4,678	4,678	4,477	683,473	323	323	323	323	323	323	314	939,353
L20in192	20in	40	19.25	489.0	3,631	3,631	3,631	3,631	3,515	3,311	3,095	777,182	250	250	250	250	244	232	219	1,068,145
L20in185		60	18.63	473.1	3,849	3,849	3,849	3,849	3,718	3,503	3,274	904,434	265	265	265	265	258	246	232	1,243,038
L20in180		80-100	18.00	457.2	4,141	4,141	4,141	4,141	3,981	3,750	3,506	945,854	286	286	286	286	276	263	248	1,299,964
L20in170		120-140	17.00	431.8	4,631	4,631	4,631	4,631	4,415	4,159	3,887	911,550	319	319	319	319	307	292	275	1,252,817
L20in160		160	16.00	406.4	5,218	5,218	5,218	5,193	4,940	4,654	4,350	877,875	360	360	360	358	344	326	308	1,206,535
L24in225	24in	40	22.63	574.7	3,325	3,325	3,325	3,325	3,325	3,325	3,182	1,481,158	229	229	229	229	229	229	223	2,035,676
L24in220		60-80	22.00	558.8	3,532	3,532	3,532	3,532	3,532	3,532	3,380	1,682,985	244	244	244	244	244	244	237	2,313,063
L24in210		100-120	21.00	533.4	3,870	3,870	3,870	3,870	3,870	3,870	3,704	1,632,372	267	267	267	267	267	267	260	2,243,502
L24in200		140-160	20.00	508.0	4,262	4,262	4,262	4,262	4,262	4,262	4,079	1,570,195	294	294	294	294	294	294	286	2,158,047

NOTES:

- 1) Pressure ratings based upon requirements of ASME VIII Div 2 Part 5 2) Max hydrotest = 1.5 x rated pressure. 3) Pressure ratings shown are based upon the hub bore being equal to the sealring bore.

- 4) Optional sealring sizes for pipe schedules shown.
 5) Optional pipe selection for high pressure applications.
 6) See page 9 for bending moment calculation method
 7) Pressure ratings do not reflect the pressure capacity of the adjoining pipe.



Hub material - Carbon-Manganese steel	to 60Ksi yield	A694 F60, A707CL3 and 413	0 (90/60 Ksi)
Clamp material :	Low alloy (AISI 4130/40)	Corrosion Allowance :	0.063" (1.6mm)

Techlok	Nom.	Schedules	Min b				Pressu	ure Rating	g (psi)			Max Bending Capacity (6)			Pressu	ire rating	(bar)			Max Bending
size	Pipe Size		ins	ring	0-100°F	200°F	300°F	400°F	500°F	600°F	700°F	(Ft-lbs)	0-50°C	100°C	150°C	200°C	250°C	300°C	350°C	Capacity (6) (Nm)
H2in20	2 in	Std-40-40S	2.06	52.4	19,365	18,541	17,866	17,304	16,462	15,507	14,495	10,182	1,323	1,273	1,232	1,196	1,145	1,088	1026	13,993
H2in20		XS-80-80S	2.06	52.4	19,365	18,541	17,866	17,304	16,462	15,507	14,495	10,182	1,323	1,273	1,232	1,196	1,145	1,088	1026	13,993
H2in16		160	1.87	47.4	22,499	21,541	20,757	20,105	19,125	18,016	16,841	10,705	1,537	1,479	1,431	1,390	1,331	1,264	1192	14,713
H2in14 H2in13		XXS	1.61 1.50	40.9 38.1	26,987 29,003	25,837 27,768	24,898 26,758	24,115 25,916	22,940 24,654	21,609 23,224	20,200 21,709	11,732 12,378	1,843 1,981	1,774 1,906	1,717 1,845	1,667 1,791	1,596 1,715	1,516 1,629	1430 1536	16,125 17,013
H3in27	3 in	Std-40-40S	3.06	77.8	12,570	12,035	11,597	11,232	10,685	10,065	9,409	12,662	859	826	800	776	744	706	666	17,403
H3in27		XS-80-80S	3.06	77.8	12,570	12,035	11,597	,	10,685	10,065	9,409	12,662	859	826	800	776	744	706	666	17,403
H3in25 H3in23		160 XXS	2.67 2.38	67.9 60.3	17,181 21,022	16,449 20,126	15,851 19,394	15,353 18,785	14,605 17,870	13,757 16,833	12,860 15,735	15,463 16,981	1,173 1,436	1,129 1,382	1,093 1,337	1,061 1,298	1,016 1,243	965 1,181	910 1114	21,252 23,339
H3in20		7003	2.06	52.4	25,411	24,329	23,444	22,707	21,601	20,348	19,021	18,575	1,736	1,670	1,616	1,570	1,503	1,427	1346	25,529
H4in40	4 in	Std-40-40S	4.06	103.2	11,335	10,852	10,458	10,129	9,635	9,076	8,484	23,038	774	745	721	700	670	637	600	31,663
H4in40		XS-80-80S	4.06	103.2	11,335	10,852	10,458	10,129	9,635	9,076	8,484	23,038	774	745 981	721	700 922	670	637	600	31,663
H4in34 H4in31		160 XXS	3.69 3.25	93.7 82.6	14,538 18,503	14,284 18,343	13,765 17,676	13,332 17,120	12,683 16,286	11,947 15,341	11,168 14,341	27,481 31,656	998	1,259	949 1,219	1,183	882 1,133	838 1,076	790 1015	37,770 43,507
H4in27			3.06	77.8	20,725	20,200	19,465	18,853	17,935	16,894	15,792	33,096	1,421	1,387	1,342	1,303	1,248	1,185	1118	45,486
H4in25	Ciu.	00 000 100 (5)	2.67	67.9	25,393	24,312	23,428	22,691	21,586	20,333	19,007	36,197	1,734	1,669	1,615	1,569	1,502	1,426	1345	49,749
H8in56 H8in52	6in	80-80S-120 ⁽⁵⁾ 160-XXS ⁽⁵⁾	5.75 5.31	146.1 135.0	15,033 17,506	15,033 17,506	15,033 17,506	15,033 17,506	14,760 17,016	13,903 16,029	12,996 14,984	133,405 142,013	1,036	1,036 1,207	1,036 1,207	1,036 1,207	1,021 1,179	975 1,124	920 1060	183,350 195,180
H8in46		100 7005	5.31	135.0	21,696	21,696	21,696	21,146	20,116	18,949	17,713	143,829	1,496	1,496	1,496	1,461	1,400	1,329	1254	197,676
H8in82	8 in	Std-40-40S	8.25	209.6	3,120	2,987	2,878	2,788	2,652	2,498	2,335	45,562	213	205	198	193	185	175	165	62,619
H8in76		XS-80-80S	7.75 7.25	196.9 184.2	5,101	4,883	4,706	4,558	4,336	4,084	3,818	60,492	348 523	335 503	324 487	315 473	302 452	286 430	270 405	83,138
H8in72 H8in67		120-140 XXS-160	6.88	174.6	7,650 10,012	7,324 9,586	7,058 9,237	6,836 8,947	6,503 8,511	6,126 8,017	5,726 7,494	84,938 97,131	684	658	637	618	592	562	530	116,737 133,495
H8in64			6.50	165.1	11,220	11,220	11,220	11,220	10,924	10,290	9,619	110,369	774	774	774	774	757	722	681	151,689
H8in62	10.	C+1 40 455	6.07	154.1	12,793	12,793	12,793	12,793	12,793	12,453	11,641	122,130	882	882	882	882	882	865	824	167,853
H10in102 H10in97	10 in	Std-40-40S XS-60-80-80S	10.25 9.88	260.4 250.8	2,998 4,155	2,871 3,978	2,766 3,834	2,679 3,713	2,549 3,532	2,401 3,327	2,244 3,110	80,253 104,200	205 284	197 273	191 264	185 257	177 246	168 233	159 220	110,299 143,211
H10in94		120-100	9.50	241.3	5,514	5,279	5,087	4,927	4,687	4,415	4,127	127,730	377	362	351	341	326	310	292	175,549
H10in87		XXS-140	8.88	225.4	8,275	7,923	7,635	7,395	7,034	6,626	6,194	163,763	565	544	526	511	489	465	438	225,073
H10in84		160	8.50	215.9	9,571	9,571	9,487	9,189	8,741	8,234	7,697	183,738	660	659	654	635	608	578	545	252,527
H10in82 H10in76			8.25 7.75	209.6 196.9	10,132 11,413	10,132 11,413	10,132 11,413	10,132 11,413	10,027 11,413	9,445 11,344	8,829 10,604	193,270 219,060	699 787	699 787	699 787	699 787	693 787	662 783	625 750	265,627 301,072
H12in120	12 in	Std-40-40S	12.00	304.8	3,923	3,756	3,619	3,505	3,335	3,141	2,936	171,988	268	258	250	242	232	220	208	236,377
H12in116		XS-80-80S	11.75	298.5	4,620	4,424	4,263	4,129	3,928	3,700	3,458	193,428	316	304	294	285	273	259	245	265,845
H12in112 H12in106		100 XXS-120-140	11.25 10.75	285.8 273.1	6,271 7,610	6,004 7,610	5,786 7,549	5,604 7,311	5,331 6,955	5,022 6,552	4,694 6,125	240,240 277,132	428 525	412 524	399 520	387 505	371 484	352 460	332 433	330,181 380,885
H12in100		N.a.	10.75	260.4	8,341	8,341	8,341	8,341	8,341	8,341	7,801	314,653	575	575	575	575	575	575	552	432,453
H12in97			9.88	250.8	8,961	8,961	8,961	8,961	8,961	8,961	8,576	344,352	618	618	618	618	618	618	601	473,270
H14in134	14 in	40	13.50	342.9	5,194	4,972	4,792	4,641	4,415	4,159	3,887	335,933	355	341	330	321	307	292	275	461,700
H14in130 H14in124		XS 80-100	13.00 12.50	330.2 317.5	6,439 6,881	6,371 6,881	6,139 6,881	5,946 6,881	5,657 6,881	5,328 6,687	4,981 6,250	393,473 453,755	443	437 474	423 474	411 474	394 474	374 465	353 442	540,782 623,632
H14in120		120	12.00	304.8	7,520	7,520	7,520	7,520	7,520	7,520	7,197	503,191	518	518	518	518	518	518	505	691,577
H14in116		140	11.75	298.5	7,800	7,800	7,800	7,800	7,800	7,800	7,465	527,026	538	538	538	538	538	538	523	724,335
H14in112 H14in106		160	11.25 10.75	285.8 273.1	8,519 9,300	8,519 9,300	8,519 9,300	8,519 9,300	8,519 9,300	8,519 9,300	8,153 8,900	585,810 586,122	587 641	587 641	587 641	587 641	587 641	587 641	572 624	805,126 805,555
H16in152	16 in	XS-40-60	15.25	387.4	6,630	6,347	6,117	5,924	5,636	5,309	4,962	617,783	453	436	422	410	392	372	351	849,070
H16in144		80	14.50	368.3	8,676	8,469	8,161	7,904	7,519	7,083	6,621	730,576	595	581	563	546	523	497	469	1,004,090
H16in140		100 120	14.00	355.6	9,289	9,289	9,289	9,289	8,967 9,356	8,447	7,896 8,239	800,237	640	640	640	640	622	592	559 583	1,099,831
H16in137 H16in134		140	13.88 13.50	352.4 342.9	9,452 9,969	9,452 9,969	9,452 9,969	9,452 9,969	9,969	8,814 9,720	9,086	818,851 857,055	652 687	652 687	652 687	652 687	646 687	618 675	643	1,125,414 1,177,921
H16in130		160	13.00	330.2	10,727	10,727	10,727	10,727	10,727	10,727	10,086	916,866	740	740	740	740	740	740	712	1,260,123
H16in120			12.00	304.8	12,526	12,526	12,526	12,526	12,526	12,526	11,988	1,029,227	864	864	864	864	864	864	841	1,414,551
H16in112 H18in170	18 in	40-60	11.25 17.00	285.8 431.8	14,191 4,387	14,191 4,200	14,191 4,047	14,191 3,920	14,191 3,729	14,191 3,512	13,581 3,283	1,099,879 543,749	978 300	978 288	978 279	978 271	978 259	978 246	952 232	1,511,653 747,318
H18in160	20	80-100	16.00	406.4	5,860	5,860	5,860	5,860	5,726	5,394	5,042	725,587	404	404	404	404	396	378	357	997,233
H18in152		120-140	15.25	387.4	6,435	6,435	6,435	6,435	6,435	6,435	6,158	849,279	444	444	444	444	444	444	432	1,167,234
H18in144 H18in140		160	14.50 14.00	368.3 355.6	7,099 7,601	7,099 7,601	7,099	7,099 7,601	7,099 7,601	7,099 7,601	6,794	962,393	489 524	489 524	489 524	489 524	489 524	489 524	476 510	1,322,695 1,396,568
H20in192	20 in	40	19.25	489.0	4,849	4,642	7,601 4,474	4,333	4,122	3,883	7,274 3,629	1,016,143 885,472	331	319	308	300	287	272	257	1,396,368
H20in185		60	18.63	473.1	6,072	5,813	5,602	5,426	5,161	4,862	4,545	1,028,946	415	399	386	375	359	341	322	1,414,164
H20in180		80-100 120-140	18.00 17.00	457.2 431.8	7,550 9,290	7,229 9,290	6,966 9,290	6,747 9,128	6,418 8,683	6,046 8,179	5,652	1,167,535 1,371,777	516 641	496 641	480 641	466 630	447 604	424 574	400 541	1,604,639 1,885,344
H20in170 H20in160		160	16.00	431.8	10,468	10,468	10,468	10,468	10,468	10,368	7,646 9,692	1,555,296	722	722	722	722	722	717	686	2,137,570
H20in152			15.25	387.4	11,496	11,496	11,496	11,496	11,496	11,496	10,957	1,677,587	793	793	793	793	793	793	770	2,305,645
H22in210	22 in	40-60	21.00	533.4	2,991	2,864	2,760	2,673	2,543	2,395	2,239	697,765	204	197	190	185	177	168	158	958,996
H22in200 H22in192		80 100-120	20.00 19.25	508.0 489.0	4,638 6,087	4,441 5,827	4,279 5,616	4,145 5,439	3,943 5,174	3,714 4,874	3,472 4,556	961,245 1,148,190	317 416	305 400	295 387	286 376	274 360	260 342	246 322	1,321,117 1,578,051
H22in192		140	18.63	473.1	6,462	6,462	6,462	6,462	6,287	5,922	5,536	1,290,963	446	446	446	446	436	415	392	1,774,276
H22in180		160	18.00	457.2	6,954	6,954	6,954	6,954	6,954	6,954	6,655	1,428,243	479	479	479	479	479	479	467	1,962,951
H22in170			17.00	431.8	7,776	7,776	7,776	7,776	7,776	7,776	7,442	1,631,101	536	536	536	536 604	536	536	522	2,241,755
H22in160 H24in232	24 in		16.00 23.25	406.4 590.6	8,762 4,183	8,762 4,005	8,762 3,859	8,762 3,738	8,762 3,556	8,762 3,349	8,385 3,131	1,686,933 1,348,160	604 286	604 275	604 266	604 258	604 247	604 235	588 222	2,318,490 1,852,886
H24in225		40	22.63	574.7	4,847	4,847	4,741	4,592	4,368	4,115	3,847	1,556,410	334	333	327	317	304	289	272	2,139,102
H24in220		60-80	22.00	558.8	5,149	5,149	5,149	5,149	5,149	5,018	4,691	1,758,734	355	355	355	355	355	349	332	2,417,171
H24in210 H24in200		100-120 140-160	21.00 20.00	533.4 508.0	5,641 6,212	5,641 6,212	5,641 6,212	5,641 6,212	5,641 6,212	5,641 6,212	5,398 5,945	2,061,886 2,287,321	389 428	389 428	389 428	389 428	389 428	389 428	379 417	2,833,818 3,143,652
H24in1200 H24in192		140 100	19.25	489.0	6,695	6,695	6,695	6,695	6,695	6,695	6,407	2,287,321 2,233,724	428	428 462	428 462	428 462	428 462	428 462	417	3,143,652
H26in270	26 in		27.00	685.8	1,833	1,755	1,691	1,638	1,558	1,468	1,372	861,865	125	120	117	113	108	103	97	1,184,532
H26in264		CTD VC	26.50	673.1	2,494	2,387	2,300	2,228	2,120	1,997	1,866	1,117,643	170	164	159	154	147	140	132	1,536,068
H26in254 H26in244		STD-XS 19.1 mm	25.50 24.50	647.7 622.3	3,398 4,681	3,253 4,600	3,135 4,433	3,036 4,294	2,888 4,085	2,721 3,848	2,543 3,597	1,409,700 1,808,277	232 322	223 316	216 306	210 297	201 284	191 270	180 255	1,937,466 2,485,262
		25.4 mm	24.00	609.6	4,874	4,874	4,874	4,874	4,752	4,476	4,184	2,018,457	336	336	336	336	329	314	296	2,774,129
H26in240																				
H26in240 H26in232 H26in225		34.9 mm	23.25 22.63	590.6 574.7	5,188 5,444	5,188 5,444	5,188 5,444	5,188 5,444	5,188 5,444	5,188 5,444	4,965 5,210	2,270,296 2,483,536	358 375	358 375	358 375	358 375	358 375	358 375	348 365	3,120,253 3,413,326

Doc VI/PT/PT F60 Rev0



Hub material - Carbon-Manganese steel	to 65Ksi yield	A694 F65	
Clamp material :	Low alloy (AISI 4130/40)	Corrosion Allowance :	0.063" (1.6mm)

Techlok size	Nom. Pipe	Schedules	Min b seal	ore of ring			Pressi	ure Ratinຄ	g (psi)			Max Bending Capacity (6)			Pressu	re rating	(bar)			Max Bending Capacity (6)
	Size		ins	mm	0-100°F	200°F	300°F	400°F	500°F	600°F	700°F	(Ft-lbs)	0-50°C	100°C	150°C	200°C	250°C	300°C	350°C	(Nm)
1in11	1 in	Std-40-40S	1.13	28.6	6,849	6,849	6,667	6,458	6,143	5,787	5,409	386	472	471	460	446	427	406	383	531
1in11		XS-80-80S	1.13	28.6	6,849	6,849	6,667	6,458	6,143	5,787	5,409	386	472	471	460	446	427	406	383	531
1in8		XS-80-80S ⁽⁴⁾	1.00	25.4	10,776	10,776	10,491	10,161	9,666	9,105	8,512	543	743	741	723	702	673	639	602	746
1in7		160	0.91	23.0	13,973	13,973	13,602	13,175	12,533	11,806	11,036	625	963	960	938	911	872	828	781	859
1in5		XXS	0.63	15.9	25,042	25,042	24,379	23,613	22,463	21,159	19,779	846	1,727	1,721	1,681	1,632	1,563	1,484	1400	1,163
1in4			0.50	12.7	30,961	30,961	30,141	29,194	27,772	26,161	24,454	844	2,135	2,128	2,078	2,018	1,932	1,835	1731	1,160
1.5in14	1.5 in	Std-40-40S	1.61	40.9	11,773	11,773	11,462	11,101	10,561	9,948	9,299	2,139	812	809	790	767	735	698	658	2,939
1.5in13		XS-80-80S	1.50	38.1	14,162	14,162	13,787	13,353	12,703	11,966	11,186	2,569	976	973	951	923	884	839	792	3,530
1.5in13		160	1.50	38.1	14,162	14,162	13,787	13,353	12,703	11,966	11,186	2,569	976	973	951	923	884	839	792	3,530
1.5in11	2 :	XXS	1.13	28.6	23,225	23,225	22,610	21,899	20,833	19,624	18,344	3,261	1,601	1,596	1,559	1,514	1,450	1,376	1298	4,482
2in20	2 in	Std-40-40S XS-80-80S	2.06 2.06	52.4	10,258	10,258 10,258	9,987 9,987	9,672 9,672	9,201 9,201	8,668 8,668	8,102 8,102	3,145	707 707	705 705	689 689	669	640	608 608	573 573	4,322
2in20 2in16		160	1.87	52.4 47.4	10,258 13.689	13,689	13.326	12.907	12.279	11.566	10.812	3,145 3,796	944	703 941	919	669 892	640 854	811	765	4,322 5,217
2in16 2in14		XXS	1.61	40.9	18,692	18,692	18,197	17,625	16,767	15.794	14,764	4,660	1,289	1,285	1.255	1.218	1,167	1,108	1045	6,405
2in14 2in13		1	1.50	38.1	20.977	20.977	20.421	19.779	18,816	17,724	16,568	5,174	1,446	1,442	1,408	1,218	1,309	1,243	1173	7,111
3in27		Std-40-40S	3.06	77.8	7,444	7,444	7.247	7,019	6,677	6,290	5.880	6.661	513	512	500	485	465	441	416	9,155
3in27		XS-80-80S	3.06	77.8	7,444	7,444	7,247	7,019	6,677	6,290	5,880	6,661	513	512	500	485	465	441	416	9,155
3in25		160	2.67	67.9	13.377	13,377	13.023	12.613	11.999	11,303	10.566	9,430	922	919	898	872	835	793	748	12,960
3in23		XXS	2.38	60.3	17,440	17,440	16,978	16.444	15,643	14,735	13,774	11,065	1,202	1.199	1.171	1.137	1.088	1,033	975	15,208
3in20		70.0	2.06	52.4	22,123	22.123	21.537	20,860	19,844	18,693	17,473	12,674	1,525	1,520	1.485	1.442	1.381	1.311	1237	17,419
4in40	4 in	Std-40-40S	4.06	103.2	4,793	4,793	4.666	4,519	4,299	4,050	3,786	9,670	330	329	322	312	299	284	268	13,290
4in40		XS-80-80S	4.06	103.2	4,793	4,793	4,666	4,519	4,299	4,050	3,786	9,670	330	329	322	312	299	284	268	13,290
4in34		160	3.69	93.7	8,940	8,940	8,703	8,429	8,019	7,553	7,061	13,988	616	614	600	583	558	530	500	19,224
4in31		XXS	3.25	82.6	14,668	14,668	14,279	13,830	13,157	12,393	11,585	18,274	1,011	1,008	984	956	915	869	820	25,115
4in27			3.06	77.8	16,733	16,733	16,290	15,778	15,009	14,139	13,217	19,854	1,154	1,150	1,123	1,091	1,044	992	935	27,287
4in25			2.67	67.9	21,345	21,345	20,780	20,126	19,146	18,035	16,859	23,029	1,472	1,467	1,433	1,391	1,332	1,265	1193	31,650
5in52	5 in	Std-40-40S	5.31	135.0	5,092	5,092	4,957	4,801	4,567	4,302	4,022	21,834	351	350	342	332	318	302	285	30,008
5in50		XS-80-80S	5.00	127.0	7,409	7,409	7,213	6,986	6,646	6,260	5,852	28,063	511	509	497	483	462	439	414	38,569
5in46		160	4.75	120.7	9,560	9,560	9,560	9,316	8,863	8,348	7,804	32,776	659	659	659	644	617	586	552	45,047
5in42		XXS	4.19	106.4	12,164	12,164	12,164	12,164	12,164	12,164	11,641	42,604	839	839	839	839	839	839	816	58,554
5in40			4.06	103.2	12,886	12,886	12,886	12,886	12,886	12,886	12,332	43,864	888	888	888	888	888	888	865	60,286
5in34			3.69	93.7	15,905	15,905	15,905	15,905	15,905	15,905	15,221	47,542	1,097	1,097	1,097	1,097	1,097	1,097	1067	65,341
5in31			3.25	82.6	20,243	20,243	20,243	20,243	20,243	20,191	18,874	44,450	1,396	1,396	1,396	1,396	1,396	1,393	1336	61,091
6in62	6 in	Std-40-40S	6.07	154.1	5,949	5,949	5,791	5,609	5,336	5,026	4,698	41,504	410	409	399	388	371	353	333	57,042
6in56		XS-80-80S-120	5.75	146.1	9,173	9,173	8,930	8,649	8,228	7,750	7,245	53,079	632	630	616	598	573	544	513	72,950
6in54		120 (4)	5.50	139.7	10,110	10,110	10,110	10,110	10,110	9,630	9,002	58,164	697	697	697	697	697	673	637	79,939
6in52		160-XXS	5.31	135.0	10,806	10,806	10,806	10,806	10,806	10,806	10,341	62,453	745	745	745	745	745	745	725	85,834
6in46		XXS	4.75	120.7	13,392	13,392	13,392	13,392	13,392	13,392	12,816	74,651	923	923	923	923	923	923	899	102,599
6in42			4.19	106.4	17,039	17,039	17,039	17,039	17,039	17,039	16,306	83,841	1,175	1,175	1,175	1,175	1,175	1,175	1143	115,230
6in40	0.	C. I 40 40C	4.06	103.2	18,051	18,051	18,051	18,051	18,051	18,051	17,275	76,220	1,245	1,245	1,245	1,245	1,245	1,245	1211	104,755
8in82	8 in	Std-40-40S	8.25	209.6	4,165	4,165	4,055	3,927	3,736	3,519	3,290	68,518	287	286	280	271	260	247	233	94,169
8in76		XS-80-80S	7.75	196.9	6,423	6,423	6,253	6,056	5,761	5,427	5,073	92,516	443	441	431	419	401	381	359	127,153
8in76		100	7.75	196.9	6,423	6,423	6,253	6,056	5,761	5,427	5,073	92,516	443	441	431	419	401	381	359	127,153
8in72		120-140	7.25	184.2	8,998	8,998	8,998	8,736	8,311	7,829	7,318	114,234	620	620	620	604	578	549	518	157,001
8in67		XXS-160	6.88	174.6	9,949	9,949	9,949	9,949	9,949	9,949	9,374	127,654	686	686 869	686 869	686 869	686 869	686 869	661	175,445
8in62 8in56			6.07 5.75	154.1 146.1	12,610 14.739	12,610 14.739	12,610 14.739	12,610 14.739	12,610 14.739	12,610 14.739	12,068	155,190 161.017	869 1.016	1.016	1.016	1.016	1.016	1.016	846 989	213,290 221.299
001110			5.75	146.1	14,739	14,/39	14,/39	14,/39	14,739	14,/39	14,105	161,017	1,016	1,016	1,016	1,016	1,016	1,016	989	221,299

Light Duty Series

Techlok size	Nom. Pipe Size	Schedules	Min b seal				Pressu	ure Rating	g (psi)			Max Bending Capacity (6)			Pressu	ire rating	g (bar)			Max Bending Capacity (6)
	Size		ins	mm	0-100°F	200°F	300°F	400°F	500°F	600°F	700°F	(Ft-lbs)	0-50°C	100°C	150°C	200°C	250°C	300°C	350°C	(Nm)
L14in134	14in	40	13.50	342.9	3,216	3,216	3,131	3,032	2,885	2,717	2,540	219,721	222	221	216	210	201	191	180	301,981
L14in130		XS	13.00	330.2	4,475	4,475	4,357	4,220	4,014	3,781	3,535	279,089	309	308	300	292	279	265	250	383,574
L14in124		80-100	12.50	317.5	5,413	5,413	5,413	5,413	5,278	4,972	4,647	336,930	373	373	373	373	366	349	329	463,070
L14in120		120	12.00	304.8	5,915	5,915	5,915	5,915	5,915	5,915	5,661	397,313	408	408	408	408	408	408	397	546,059
L14in116		140	11.75	298.5	6,136	6,136	6,136	6,136	6,136	6,136	5,872	419,641	423	423	423	423	423	423	412	576,747
L14in112		160	11.25	285.8	6,701	6,701	6,701	6,701	6,701	6,701	6,413	482,905	462	462	462	462	462	462	450	663,696
L16in152	16in	XS-40-60	15.25	387.4	3,697	3,697	3,600	3,486	3,317	3,124	2,920	366,794	255	254	248	241	231	219	207	504,115
L16in144		80	14.50	368.3	4,600	4,600	4,600	4,600	4,600	4,600	4,349	482,528	317	317	317	317	317	317	306	663,177
L16in140		100	14.00	355.6	4,925	4,925	4,925	4,925	4,925	4,925	4,713	555,334	340	340	340	340	340	340	331	763,240
L16in137		120	13.88	352.4	5,012	5,012	5,012	5,012	5,012	5,012	4,797	574,460	346	346	346	346	346	346	336	789,527
L16in134		140	13.50	342.9	5,286	5,286	5,286	5,286	5,286	5,286	5,059	609,915	364	364	364	364	364	364	355	838,256
L16in130		160	13.00	330.2	5,687	5,687	5,687	5,687	5,687	5,687	5,443	595,662	392	392	392	392	392	392	382	818,667
L18in170	18in	40-60	17.00	431.8	3,427	3,427	3,427	3,427	3,427	3,427	3,214	555,429	236	236	236	236	236	236	227	763,371
L18in160		80-100	16.00	406.4	3,861	3,861	3,861	3,861	3,861	3,861	3,695	727,634	266	266	266	266	266	266	259	1,000,047
L18in152		120-140	15.25	387.4	4,240	4,240	4,240	4,240	4,240	4,240	4,058	705,379	292	292	292	292	292	292	285	969,460
L18in144		160	14.50	368.3	4,678	4,678	4,678	4,678	4,678	4,678	4,477	683,473	323	323	323	323	323	323	314	939,353
L20in192	20in	40	19.25	489.0	3,631	3,631	3,631	3,631	3,631	3,587	3,353	841,948	250	250	250	250	250	248	237	1,157,157
L20in185		60	18.63	473.1	3,849	3,849	3,849	3,849	3,849	3,795	3,547	979,804	265	265	265	265	265	263	251	1,346,624
L20in180		80-100	18.00	457.2	4,141	4,141	4,141	4,141	4,141	4,063	3,798	1,024,675	286	286	286	286	286	282	269	1,408,294
L20in170		120-140	17.00	431.8	4,631	4,631	4,631	4,631	4,631	4,505	4,211	987,513	319	319	319	319	319	313	298	1,357,219
L20in160		160	16.00	406.4	5,218	5,218	5,218	5,218	5,218	5,042	4,713	951,031	360	360	360	360	360	351	334	1,307,080
L24in225	24in	40	22.63	574.7	3,325	3,325	3,325	3,325	3,325	3,325	3,182	1,604,588	229	229	229	229	229	229	223	2,205,315
L24in220		60-80	22.00	558.8	3,532	3,532	3,532	3,532	3,532	3,532	3,380	1,682,985	244	244	244	244	244	244	237	2,313,063
L24in210		100-120	21.00	533.4	3,870	3,870	3,870	3,870	3,870	3,870	3,704	1,632,372	267	267	267	267	267	267	260	2,243,502
L24in200		140-160	20.00	508.0	4,262	4,262	4,262	4,262	4,262	4,262	4,079	1,570,195	294	294	294	294	294	294	286	2,158,047

NOTES:

- 1) Pressure ratings based upon requirements of ASME VIII Div 2 Part 5 2) Max hydrotest = 1.5 x rated pressure. 3) Pressure ratings shown are based upon the hub bore being equal to the sealring bore.

- 4) Optional sealring sizes for pipe schedules shown.
 5) Optional pipe selection for high pressure applications.
 6) See page 9 for bending moment calculation method
 7) Pressure ratings do not reflect the pressure capacity of the adjoining pipe.



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Heavy Duty Series

ı	Hub material - Carbon-Manganese steel	to 65Ksi yield	A694 F65	
•	Clamp material :	Low alloy (AISI 4130/40)	Corrosion Allowance :	0.063" (1.6mm)

Techlok size	Nom. Pipe	Schedules	Min b				Pressu	ıre Ratin	g (psi)			Max Bending Capacity (6)			Pressu	ire rating	(bar)			Max Bending Capacity (6)
	Size		ins	mm	0-100°F	200°F	300°F	400°F	500°F	600°F	700°F	(Ft-lbs)	0-50°C	100°C	150°C	200°C	250°C	300°C	350°C	(Nm)
H2in20	2 in	Std-40-40S	2.06	52.4	19,882	19,882	19,355	18,747	17,834	16,799	15,703	11,030	1,371	1,366	1,334	1,296	1,241	1,178	1111	15,159
H2in20		XS-80-80S	2.06	52.4	19,882	19,882	19,355	18,747	17,834	16,799	15,703	11,030	1,371 1,593	1,366	1,334	1,296	1,241	1,178 1,369	1111	15,159
H2in16 H2in14		160 XXS	1.87 1.61	47.4 40.9	23,099 27,706	23,099 27,706	22,487 26,973	21,780 26,124	20,719 24,852	19,517 23,410	18,244 21,883	11,598 12,710	1,910	1,588 1,904	1,550 1,860	1,506 1,806	1,442 1,729	1,369 1,642	1291 1549	15,939 17,468
H2in13			1.50	38.1	29,776	29,776	28,988	28,076	26,709	25,159	23,518	13,410	2,053	2,046	1,999	1,941	1,858	1,765	1664	18,430
H3in27 H3in27	3 in	Std-40-40S XS-80-80S	3.06 3.06	77.8 77.8	12,905 12,905	12,905 12,905	12,563 12,563	12,168 12,168	11,576 11,576	10,904 10,904	10,193 10,193	13,718 13,718	890 890	887 887	866 866	841 841	805 805	765 765	721 721	18,853 18,853
H3in25		160	2.67	67.9	17,639	17,639	17,172	16,632	15,822	14,904	13,932	16,751	1,216	1,212	1,184	1,150	1,101	1,045	986	23,023
H3in23		XXS	2.38	60.3	21,582	21,582	21,011	20,350	19,359	18,236	17,046	18,396	1,488	1,483	1,449	1,407	1,347	1,279	1206	25,283
H3in20 H4in40	4 in	Std-40-40S	2.06 4.06	52.4 103.2	26,089 11,637	26,089 11,637	25,398 11,329	24,599 10,973	23,401 10,438	22,043 9,833	20,606 9,191	20,123 24,958	1,799 802	1,793 800	1,751 781	1,700 758	1,628 726	1,546 690	1458 651	27,656 34,301
H4in40	7	XS-80-80S	4.06	103.2	11,637	11,637	11,329	10,973	10,438	9,833	9,191	24,958	802	800	781	758	726	690	651	34,301
H4in34		160	3.69	93.7	14,538	14,538	14,538	14,443	13,740	12,943	12,099	29,771	1,002	1,002	1,002	996	956	908	856	40,917
H4in31 H4in27		XXS	3.25 3.06	82.6 77.8	18,503 20,725	18,503 20,725	18,503 20,725	18,503 20,424	17,643 19,429	16,620 18,302	15,536 17,109	34,294 35,854	1,276 1,429	1,276 1,429	1,276 1,429	1,276 1,410	1,227 1,352	1,166 1,284	1100 1211	47,133 49,277
H4in25		(-)	2.67	67.9	26,070	26,070	25,380	24,582	23,385	22,028	20,591	36,216	1,797	1,792	1,750	1,699	1,627	1,545	1457	49,775
H8in56	6in	80-80S-120 ⁽⁵⁾	5.75	146.1	15,033	15,033	15,033	15,033	15,033	15,033	14,079	144,523	1,036	1,036	1,036	1,036	1,036	1,036	996	198,629
H8in52 H8in46		160-XXS ⁽⁵⁾	5.31 5.31	135.0 135.0	17,506 21,696	17,506 21,696	17,506 21,696	17,506 21,696	17,506 21,696	17,365 20,528	16,232 19,189	149,785 143,829	1,207 1,496	1,207 1,496	1,207 1,496	1,207 1,496	1,207 1,496	1,200 1,438	1149 1358	205,862 197,676
H8in82	8 in	Std-40-40S	8.25	209.6	3,203	3,203	3,118	3,020	2,873	2,706	2,530	49,359	221	220	215	209	200	190	179	67,838
H8in76		XS-80-80S	7.75	196.9	5,237	5,237	5,098	4,938	4,697	4,425	4,136	65,533	361	360	351	341	327	310	293	90,067
H8in72 H8in67		120-140 XXS-160	7.25 6.88	184.2 174.6	7,854 10,093	7,854 10,093	7,646 10,007	7,406 9,692	7,045 9,220	6,636 8,685	6,203 8,119	92,016 105,225	542 696	540 695	527 690	512 670	490 642	465 609	439 575	126,465 144,619
H8in64			6.50	165.1	11,220	11,220	11,220	11,220	11,220	11,147	10,420	119,566	774	774	774	774	774	770	737	164,330
H8in62	10:0	C+d-40 400	6.07	154.1	12,793	12,793	12,793	12,793	12,793	12,793	12,243	132,308	882	882	882	882	882	882	859 172	181,841
H10in102 H10in97	10 in	Std-40-40S XS-60-80-80S	10.25 9.88	260.4 250.8	3,078 4,266	3,078 4,266	2,997 4,153	2,902 4,023	2,761 3,827	2,601 3,605	2,431 3,370	86,941 112,884	212 294	212 293	207 286	201 278	192 266	182 253	172 238	119,490 155,145
H10in94		120-100	9.50	241.3	5,661	5,661	5,511	5,337	5,077	4,783	4,471	138,374	390	389	380	369	353	335	316	190,178
H10in87		XXS-140	8.88	225.4	8,496	8,496	8,271	8,011	7,621	7,178	6,710	177,410	586	584	570	554	530	503	475	243,829
H10in84 H10in82		160	8.50 8.25	215.9 209.6	9,571 10,132	9,571 10,132	9,571 10,132	9,571 10,132	9,470 10,132	8,920 10,132	8,339 9,565	199,050 209,376	660 699	660 699	660 699	660 699	654 699	626 699	590 674	273,571 287,763
H10in76			7.75	196.9	11,413	11,413	11,413	11,413	11,413	11,413	10,922	237,315	787	787	787	787	787	787	766	326,161
H12in120	12 in	Std-40-40S XS-80-80S	12.00 11.75	304.8 298.5	4,027 4,744	4,027 4,744	3,921 4,618	3,797	3,613	3,403 4,008	3,181	186,320 209,548	278 327	277 326	270 318	263 309	251 296	239 281	225 265	256,075
H12in116 H12in112		100	11.75	285.8	6,439	6,439	6,268	4,473 6,071	4,255 5,775	5,440	3,747 5,085	260,260	444	443	432	420	402	382	360	287,998 357,697
H12in106		XXS-120-140	10.75	273.1	7,610	7,610	7,610	7,610	7,535	7,098	6,635	300,226	525	525	525	525	520	498	470	412,625
H12in102 H12in97		N.a.	10.25 9.88	260.4 250.8	8,341 8,961	8,341 8,961	8,341 8,961	8,341 8,961	8,341 8,961	8,341 8,961	7,982 8,576	340,874 373,048	575 618	575 618	575 618	575 618	575 618	575 618	560 601	468,491 512,710
H14in134	14 in	40	13.50	342.9	5,332	5,332	5,191	5,028	4,783	4,505	4,211	363,928	368	366	358	348	333	316	298	500,175
H14in130		XS	13.00	330.2	6,439	6,439	6,439	6,439	6,128	5,772	5,396	426,263	444	444	444	444	426	405	382	585,847
H14in124 H14in120		80-100 120	12.50 12.00	317.5 304.8	6,881 7,520	6,881 7,520	6,881 7,520	6,881 7,520	6,881 7,520	6,881 7,520	6,585 7,197	491,568 545,124	474 518	474 518	474 518	474 518	474 518	474 518	462 505	675,601 749,208
H14in116		140	11.75	298.5	7,800	7,800	7,800	7,800	7,800	7,800	7,465	570,945	538	538	538	538	538	538	523	784,696
H14in112		160	11.25	285.8	8,519	8,519	8,519	8,519	8,519	8,519	8,153	633,515	587	587	587	587	587	587	572	870,691
H14in106 H16in152	16 in	XS-40-60	10.75 15.25	273.1 387.4	9,300 6,807	9,300 6,807	9,300 6,626	9,300 6,418	9,300 6,105	9,300 5,751	8,900 5,376	586,122 669,265	641 469	641 468	641 457	641 444	641 425	641 403	624 380	805,555 919,825
H16in144	10111	80	14.50	368.3	8,676	8,676	8,676	8,563	8,146	7,673	7,173	791,458	598	598	598	591	567	538	508	1,087,765
H16in140		100	14.00	355.6	9,289	9,289	9,289	9,289	9,289	9,150	8,554	866,924	640	640	640	640	640	634	605	1,191,484
H16in137 H16in134		120 140	13.88 13.50	352.4 342.9	9,452 9,969	9,452 9,969	9,452 9,969	9,452 9,969	9,452 9,969	9,452 9,969	8,925 9,540	887,089 928,476	652 687	652 687	652 687	652 687	652 687	652 687	629 669	1,219,198 1,276,081
H16in130		160	13.00	330.2	10,727	10,727	10,727	10,727	10,727	10,727	10,266	993,271	740	740	740	740	740	740	720	1,365,134
H16in120			12.00	304.8	12,526	12,526	12,526	12,526	12,526	12,526	11,988	1,087,078	864	864	864	864	864	864	841	1,494,060
H16in112 H18in170	18 in	40-60	11.25 17.00	285.8 431.8	14,191 4,504	14,191 4,504	14,191 4,384	14,191 4,246	14,191 4,040	14,191 3,805	13,581 3,557	1,099,879 589,061	978 311	978 310	978 302	978 294	978 281	978 267	952 252	1,511,653 809,595
H18in160	10111	80-100	16.00	406.4	5,860	5,860	5,860	5,860	5,860	5,844	5,463	786,053	404	404	404	404	404	403	387	1,080,336
H18in152		120-140	15.25	387.4	6,435	6,435	6,435	6,435	6,435	6,435	6,158	920,053	444	444	444	444	444	444	432	1,264,503
H18in144 H18in140		160	14.50 14.00	368.3 355.6	7,099 7,601	7,099 7,601	7,099 7,601	7,099 7,601	7,099 7,601	7,099 7,601	6,794 7,274	1,038,001 1,016,143	489 524	489 524	489 524	489 524	489 524	489 524	476 510	1,426,609 1,396,568
H20in192	20 in	40	19.25	489.0	4,978	4,978	4,846	4,694	4,465	4,206	3,932	959,261	343	342	334	324	311	295	278	1,318,391
H20in185		60	18.63	473.1	6,234	6,234	6,068	5,878	5,591	5,267	4,923	1,114,691	430	428	418	406	389	369	348	1,532,011
H20in180 H20in170		80-100 120-140	18.00 17.00	457.2 431.8	7,752 9,290	7,752 9,290	7,546 9,290	7,309 9,290	6,953 9,290	6,550 8,861	6,122 8,283	1,264,830 1,486,091	534 641	533 641	520 641	505 641	484 641	459 619	433 586	1,738,359 2,042,456
H20in160		160	16.00	406.4	10,468	10,468	10,468	10,468	10,468	10,468	10,018	1,684,904	722	722	722	722	722	722	702	2,315,701
H20in152	22.5-	10.60	15.25	387.4	11,496	11,496	11,496	11,496	11,496	11,496	11,002	1,817,386	793	793	793	793	793	793	771	2,497,782
H22in210 H22in200	22 in	40-60 80	21.00 20.00	533.4 508.0	3,071 4,762	3,071 4,762	2,990 4,636	2,896 4,490	2,755 4,271	2,595 4,024	2,426 3,761	755,913 1,041,349	212 328	211 327	206 320	200 310	192 297	182 282	172 266	1,038,912 1,431,210
H22in192		100-120	19.25	489.0	6,098	6,098	6,084	5,892	5,605	5,280	4,936	1,243,873	420	420	419	407	390	370	349	1,709,555
H22in185		140	18.63	473.1	6,462	6,462	6,462	6,462	6,462	6,416	5,997	1,398,544	446	446	446	446	446	443	424	1,922,133
H22in180 H22in170		160	18.00 17.00	457.2 431.8	6,954 7,776	6,954 7,776	6,954 7,776	6,954 7,776	6,954 7,776	6,954 7,776	6,655 7,442	1,547,264 1,767,026	479 536	479 536	479 536	479 536	479 536	479 536	467 522	2,126,531 2,428,568
H22in160			16.00	406.4	8,762	8,762	8,762	8,762	8,762	8,762	8,385	1,805,120	604	604	604	604	604	604	588	2,480,924
H24in232	24 in	40	23.25	590.6	4,294	4,294	4,181	4,049	3,852	3,628	3,392	1,460,506	296	295	288	280	268	254	240	2,007,293
H24in225 H24in220		40 60-80	22.63 22.00	574.7 558.8	4,847 5,149	4,847 5,149	4,847 5,149	4,847 5,149	4,732 5,149	4,458 5,149	4,167 4,928	1,686,111 1,905,295	334 355	334 355	334 355	334 355	328 355	313 355	295 346	2,317,360 2,618,602
H24in210		100-120	21.00	533.4	5,641	5,641	5,641	5,641	5,641	5,641	5,398	2,233,710	389	389	389	389	389	389	379	3,069,970
H24in200		140-160	20.00	508.0	6,212	6,212	6,212	6,212	6,212	6,212	5,945	2,287,321	428	428	428	428	428	428	417	3,143,652
H24in192 H26in270	26 in		19.25 27.00	489.0 685.8	6,695 1,882	6,695 1,882	6,695 1,832	6,695 1,774	6,695 1,688	6,695 1,590	6,407 1,486	2,233,724 933,688	462 130	462 129	462 126	462 123	462 117	462 112	449 105	3,069,989 1,283,243
H26in264			26.50	673.1	2,560	2,560	2,492	2,414	2,296	2,163	2,022	1,210,780	177	176	172	167	160	152	143	1,664,074
H26in254		STD-XS	25.50	647.7	3,488	3,488	3,396	3,289	3,129	2,947	2,755	1,527,175	241	240	234	227	218	207	195	2,098,921
H26in244 H26in240		19.1 mm 25.4 mm	24.50 24.00	622.3 609.6	4,681 4,874	4,681 4,874	4,681 4,874	4,652 4,874	4,425 4,874	4,168 4,849	3,896 4,533	1,958,966 2,186,661	323 336	323 336	323 336	321 336	308 336	292 335	276 321	2,692,367 3,005,307
H26in232		34.9 mm	23.25	590.6	5,188	5,188	5,188	5,188	5,188	5,188	4,965	2,459,488	358	358	358	358	358	358	348	3,380,274
			22.63	574.7	5,444	5,444	5,444	5,444	5,444	5,444	5,210	2,690,498	375	375	375	375	375	375	365	3,697,770

Doc VI/PT/PT F65 Rev0



Hub material - ANSI Material Group 1.10	2 1/4 Cr 1 Mo steel	A182 F22 Cl3, A 217 WC9	
Clamp material :	Low alloy (AISI 4130/40)	Corrosion Allowance :	0.063" (1.6mm)

Techlok size	Nom. Pipe	Schedules		ore of ring			Pressi	ure Ratinຄ	g (psi)			Max Bending Capacity (6)			Pressu	re rating	(bar)			Max Bending Capacity (6)
	Size		ins	mm	0-100°F	200°F	300°F	400°F	500°F	600°F	700°F	(Ft-lbs)	0-50°C	100°C	150°C	200°C	250°C	300°C	350°C	(Nm)
1in11	1 in	Std-40-40S	1.13	28.6	5,225	4,784	4,575	4,424	4,331	4,238	4,134	267	354	328	315	306	300	294	288	368
1in11		XS-80-80S	1.13	28.6	5,225	4,784	4,575	4,424	4,331	4,238	4,134	267	354	328	315	306	300	294	288	368
1in8		XS-80-80S ⁽⁴⁾	1.00	25.4	8,222	7,528	7,199	6,962	6,815	6,669	6,505	376	556	516	496	481	472	463	453	516
1in7		160	0.91	23.0	10,661	9,761	9,334	9,026	8,837	8,647	8,434	433	721	669	644	624	612	600	587	595
1in5		XXS	0.63	15.9	19,107	17,494	16,729	16,177	15,838	15,498	15,116	586	1,293	1,200	1,153	1,118	1,096	1,075	1052	805
1in4			0.50	12.7	23,623	21,628	20,683	20,001	19,581	19,161	18,689	639	1,598	1,483	1,426	1,383	1,355	1,329	1301	878
1.5in14	1.5 in	Std-40-40S	1.61	40.9	8,983	8,224	7,865	7,606	7,446	7,286	7,107	1,481	608	564	542	526	515	505	495	2,035
1.5in13		XS-80-80S	1.50	38.1	10,806	9,893	9,461	9,149	8,957	8,764	8,548	1,778	731	679	652	632	620	608	595	2,444
1.5in13		160	1.50	38.1	10,806	9,893	9,461	9,149	8,957	8,764	8,548	1,778	731	679	652	632	620	608	595	2,444
1.5in11		XXS	1.13	28.6	17,721	16,224	15,515	15,003	14,688	14,373	14,019	2,258	1,199	1,113	1,070	1,037	1,017	997	976	3,103
2in20	2 in	Std-40-40S	2.06	52.4	7,827	7,166	6,853	6,627	6,488	6,348	6,192	2,177	530	491	472	458	449	440	431	2,992
2in20		XS-80-80S	2.06	52.4	7,827	7,166	6,853	6,627	6,488	6,348	6,192	2,177	530	491	472	458	449	440	431	2,992
2in16		160 XXS	1.87	47.4 40.9	10,444	9,562	9,145	8,843	8,657	8,472	8,263	2,628	707 965	656 896	630 861	611 835	599	588 802	575	3,612
2in14 2in13		1 1	1.61 1.50	40.9 38.1	14,262	13,058 14.654	12,487 14.013	12,075 13.551	11,822	11,568	11,283	3,226		1.005	966	937	818 918	901	785	4,434
3in27		Std-40-40S	3.06	77.8	16,005 5,680	5,200	4,973	4,809	13,267 4,708	12,982 4,607	12,662 4,493	3,582 4,612	1,083 384	357	343	332	326	320	881 313	4,923 6,338
3in27		XS-80-80S	3.06	77.8	5,680	5,200	4,973	4,809	4,708	4,607	4,493	4,612	384	357	343	332	326	320	313	6,338
3in27		160	2.67	67.9	10.207	9,345	8,936	8,642	8,460	8,279	8,075	6,528	691	641	616	597	526 586	574	562	8,973
3in23		XXS	2.38	60.3	13,306	12,183	11,650	11,266	11,029	10,793	10,527	7,660	900	836	803	779	763	749	733	10,528
3in20		1^^3	2.06	52.4	16,880	15,454	14,779	14,291	13,991	13,691	13,354	8,774	1.142	1.060	1.019	988	968	950	930	12,059
4in40	4 in	Std-40-40S	4.06	103.2	3,657	3,348	3,202	3,096	3,031	2,966	2,893	6,695	247	230	221	214	210	206	201	9,201
4in40		XS-80-80S	4.06	103.2	3,657	3,348	3,202	3,096	3,031	2,966	2,893	6,695	247	230	221	214	210	206	201	9,201
4in34		160	3.69	93.7	6,821	6,245	5,972	5,775	5,654	5,532	5,396	9,684	462	428	412	399	391	384	376	13,309
4in31		XXS	3.25	82.6	11.191	10.246	9,799	9,475	9,276	9,077	8.854	12,651	757	703	676	655	642	630	616	17,387
4in27			3.06	77.8	12,767	11,689	11,179	10,810	10,583	10,356	10,100	13,745	864	802	771	747	732	718	703	18,891
4in25			2.67	67.9	16,286	14,911	14,259	13,789	13,499	13,210	12,884	15,943	1,102	1,023	983	953	934	916	897	21,912
5in52	5 in	Std-40-40S	5.31	135.0	3,885	3,557	3,402	3,289	3,220	3,151	3,074	15,116	263	244	235	227	223	219	214	20,775
5in50		XS-80-80S	5.00	127.0	5,653	5,176	4,949	4,786	4,686	4,585	4,472	19,428	383	355	341	331	324	318	311	26,701
5in46		160	4.75	120.7	7,539	6,902	6,601	6,383	6,249	6,115	5,964	22,691	510	473	455	441	432	424	415	31,186
5in42		XXS	4.19	106.4	11,273	10,321	9,870	9,544	9,344	9,143	8,918	29,495	763	708	680	660	647	634	621	40,537
5in40			4.06	103.2	12,481	11,427	10,928	10,567	10,346	10,124	9,874	30,367	845	784	753	731	716	702	687	41,736
5in34			3.69	93.7	15,027	13,758	13,157	12,723	12,456	12,189	11,888	33,630	1,017	944	907	880	862	846	828	46,220
5in31			3.25	82.6	18,233	16,693	15,964	15,437	15,113	14,789	14,424	36,706	1,234	1,145	1,101	1,067	1,046	1,026	1004	50,448
6in62	6 in	Std-40-40S	6.07	154.1	4,539	4,155	3,974	3,843	3,762	3,681	3,591	28,733	307	285	274	266	260	255	250	39,491
6in56		XS-80-80S-120	5.75	146.1	6,999	6,408	6,128	5,926	5,801	5,677	5,537	36,747	474	439	422	410	402	394	385	50,504
6in54		120 (4)	5.50	139.7	8,696	7,962	7,614	7,362	7,208	7,053	6,879	40,267	588	546	525	509	499	489	479	55,343
6in52		160-XXS	5.31	135.0	10,114	9,260	8,856	8,564	8,384	8,204	8,002	43,236	684	635	611	592	580	569	557	59,423
6in46		XXS	4.75	120.7	13,136	12,027	11,501	11,122	10,888	10,655	10,392	51,682	889	825	793	769	754	739	723	71,030
6in42			4.19	106.4	16,048	14,693	14,051	13,587	13,302	13,017	12,696	59,667	1,086	1,008	969	939	921	903	884	82,005
6in40			4.06	103.2	17,201	15,748	15,060	14,563	14,258	13,952	13,608	59,871	1,164	1,080	1,038	1,007	987	968	947	82,285
8in82	8 in	Std-40-40S	8.25	209.6	3,178	2,910	2,782	2,691	2,634	2,578	2,514	47,435	215	200	192	186	182	179	175	65,194
8in76		XS-80-80S	7.75	196.9	4,901	4,487	4,291	4,149	4,062	3,975	3,877	64,050	332	308	296	287	281	276	270	88,029
8in76		100	7.75	196.9	4,901	4,487	4,291	4,149	4,062	3,975	3,877	64,050	332	308	296	287	281	276	270	88,029
8in72		120-140	7.25	184.2	7,069	6,472	6,190	5,985	5,860	5,734	5,593	79,085	478	444	427	414	406	398	389	108,693
8in67		XXS-160	6.88	174.6	9,056	8,291	7,929	7,667	7,506	7,345	7,164	88,376	613	569	547	530	520	510	499	121,462
8in62			6.07	154.1	12,610	12,438	11,894	11,502	11,260	11,019	10,747	107,439	867	853	820	795	779	764	748	147,662
8in56			5.75	146.1	14,739	13,632	13,037	12,607	12,342	12,077	11,780	116,531	999	935	899	872	854	838	820	160,158

Light Duty Series

Techlok size	Nom. Pipe	Schedules	Min b				Pressu	ure Rating	g (psi)			Max Bending Capacity (6)	(6)						Max Bending Capacity (6)	
	Size		ins	mm	0-100°F	200°F	300°F	400°F	500°F	600°F	700°F	(Ft-lbs)	0-50°C	100°C	150°C	200°C	250°C	300°C	350°C	(Nm)
L14in134	14in	40	13.50	342.9	2,454	2,246	2,148	2,077	2,034	1,990	1,941	152,115	166	154	148	144	141	138	135	209,064
L14in130		XS	13.00	330.2	3,415	3,126	2,990	2,891	2,830	2,770	2,701	193,215	231	214	206	200	196	192	188	265,552
L14in124		80-100	12.50	317.5	4,489	4,110	3,931	3,801	3,721	3,641	3,552	233,259	304	282	271	263	258	253	247	320,587
L14in120		120	12.00	304.8	5,915	5,452	5,214	5,042	4,936	4,830	4,711	275,063	401	374	359	349	342	335	328	378,041
L14in116		140	11.75	298.5	6,136	5,826	5,571	5,388	5,274	5,161	5,034	290,521	418	400	384	372	365	358	350	399,287
L14in112		160	11.25	285.8	6,701	6,353	6,075	5,875	5,751	5,628	5,489	334,319	457	436	419	406	398	390	382	459,482
L16in152	16in	XS-40-60	15.25	387.4	2,821	2,583	2,470	2,389	2,338	2,288	2,232	253,934	191	177	170	165	162	159	155	349,002
L16in144		80	14.50	368.3	4,201	3,846	3,678	3,557	3,482	3,408	3,324	334,058	284	264	254	246	241	236	231	459,122
L16in140		100	14.00	355.6	4,734	4,334	4,145	4,008	3,924	3,840	3,745	384,462	320	297	286	277	272	266	261	528,397
L16in137		120	13.88	352.4	4,813	4,407	4,214	4,075	3,989	3,904	3,808	397,703	326	302	291	282	276	271	265	546,596
L16in134		140	13.50	342.9	5,062	4,634	4,432	4,285	4,195	4,105	4,004	424,881	342	318	306	296	290	285	279	583,949
L16in130		160	13.00	330.2	5,425	4,967	4,750	4,593	4,496	4,400	4,292	414,952	367	341	327	318	311	305	299	570,302
L18in170	18in	40-60	17.00	431.8	3,105	2,843	2,719	2,629	2,574	2,519	2,456	384,528	210	195	187	182	178	175	171	528,488
L18in160		80-100	16.00	406.4	3,861	3,861	3,701	3,579	3,504	3,428	3,344	527,783	266	265	255	247	242	238	233	725,376
L18in152		120-140	15.25	387.4	4,240	4,227	4,042	3,909	3,827	3,745	3,652	561,582	292	290	279	270	265	260	254	771,828
L18in144		160	14.50	368.3	4,678	4,637	4,434	4,288	4,198	4,108	4,007	544,141	322	318	306	296	291	285	279	747,857
L20in192	20in	40	19.25	489.0	3,239	2,965	2,836	2,742	2,685	2,627	2,562	582,887	219	203	196	190	186	182	178	801,109
L20in185		60	18.63	473.1	3,426	3,137	3,000	2,901	2,840	2,779	2,711	678,326	232	215	207	201	197	193	189	932,278
L20in180		80-100	18.00	457.2	3,669	3,359	3,212	3,106	3,041	2,976	2,902	709,390	248	230	221	215	210	206	202	974,973
L20in170		120-140	17.00	431.8	4,068	3,725	3,562	3,444	3,372	3,300	3,218	683,663	275	255	246	238	233	229	224	939,613
L20in160		160	16.00	406.4	4,553	4,168	3,986	3,855	3,774	3,693	3,602	658,406	308	286	275	266	261	256	251	904,901
L24in225	24in	40	22.63	574.7	3,325	3,325	3,308	3,199	3,131	3,064	2,989	1,110,868	229	229	228	221	217	213	208	1,526,757
L24in220		60-80	22.00	558.8	3,532	3,532	3,506	3,390	3,319	3,248	3,168	1,268,315	244	243	242	234	230	225	220	1,743,149
L24in210		100-120	21.00	533.4	3,870	3,870	3,818	3,692	3,615	3,537	3,450	1,343,217	267	266	263	255	250	245	240	1,846,093
L24in200		140-160	20.00	508.0	4,262	4,262	4,180	4,042	3,957	3,873	3,777	1,292,054	294	293	288	279	274	269	263	1,775,775

NOTES:

- 1) Pressure ratings based upon requirements of ASME VIII Div 2 Part 5 2) Max hydrotest = 1.5 x rated pressure. 3) Pressure ratings shown are based upon the hub bore being equal to the sealring bore.

- 4) Optional sealring sizes for pipe schedules shown.
 5) Optional pipe selection for high pressure applications.
 6) See page 9 for bending moment calculation method
 7) Pressure ratings do not reflect the pressure capacity of the adjoining pipe.



Hub material - ANSI Material Group 1.10 2 1/4 Cr 1 Mo steel

Clamp material:

Low alloy (AISI 4130/40)

Corrosion Allowance:

0.063" (1.6mm)

ileavy	νu	ty Serie	3				Ctamp ii					w alloy (Al3i 4	,			IOII ALLOV		0.0	03 (1.0	,
Techlok size	Nom. Pipe Size	Schedules	Min bo				Pressu	ıre Rating	g (psi)			Max Bending Capacity (6)			Pressu	ıre rating	g (bar)			Max Bending Capacity (6)
	Size		ins	mm	0-100°F	200°F	300°F	400°F	500°F	600°F	700°F	(Ft-lbs)	0-50°C	100°C	150°C	200°C	250°C	300°C	350°C	(Nm)
1 1	2 in	Std-40-40S	2.06	52.4	15,170	13,889	13,282	12,844	12,574	12,304	12,001	7,636	1,026	953	916	888	870	854	835	10,495
H2in20 H2in16		XS-80-80S 160	2.06 1.87	52.4 47.4	15,170 17,624	13,889 16,136	13,282 15,431	12,844 14,922	12,574 14,608	12,304 14,295	12,001 13,943	7,636 8,029	1,026 1,193	953 1,107	916 1,064	888 1,032	870 1,011	854 992	835 971	10,495 11,035
H2in14		XXS	1.61	40.9	21,140	19,354	18,509	17,898	17,522	17,147	16,724	8,799	1,430	1,327	1,276	1,237	1,213	1,189	1164	12,094
H2in13			1.50	38.1	22,719	20,800	19,892	19,235	18,831	18,428	17,973	9,284	1,537	1,427	1,371	1,330	1,303	1,278	1251	12,760
	3 in	Std-40-40S	3.06	77.8	9,847	9,015	8,621	8,337	8,162	7,987	7,790	9,497	666	618	594	576	565	554	542	13,052
H3in27 H3in25		XS-80-80S 160	3.06 2.67	77.8 67.9	9,847 13,458	9,015 12,322	8,621 11,784	8,337 11,395	8,162 11,156	7,987 10,916	7,790 10,647	9,497 11,597	666 911	618 845	594 812	576 788	565 772	554 757	542 741	13,052 15,939
H3in23		XXS	2.38	60.3	16,467	15,076	14,418	13,942	13,649	13,357	13,027	12,736	1,114	1,034	994	964	945	927	907	17,504
H3in20	4 im	C+-1 40 40C	2.06	52.4	19,905	18,224	17,428	16,853	16,499	16,145	15,747	13,931	1,347	1,250	1,202	1,165	1,142	1,120	1096	19,146
H4in40 H4in40	4 in	Std-40-40S XS-80-80S	4.06 4.06	103.2 103.2	8,879 8,879	8,129 8,129	7,774 7,774	7,518 7,518	7,360 7,360	7,202 7,202	7,024 7,024	17,278 17,278	601 601	558 558	536 536	520 520	509 509	500 500	489 489	23,747 23,747
H4in34		160	3.69	93.7	11,687	10,700	10,233	9,895	9,687	9,480	9,246	20,611	791	734	706	684	670	658	644	28,327
H4in31		XXS	3.25	82.6	15,008	13,740	13,140	12,707	12,440	12,173	11,873	23,742	1,016	942	906	878	861 948	844	826	32,630
H4in27 H4in25			3.06 2.67	77.8 67.9	16,527 19,891	15,131 18,212	14,470 17,416	13,993 16,841	13,699 16,488	13,405 16,134	13,075 15,736	24,822 27,148	1,118 1,346	1,038 1,249	998 1,201	967 1,164	946 1,141	930 1,119	910 1095	34,115 37,312
	6in	80-80S-120 (5)	5.75	146.1	13,601	12,452	11,908	11,515	11,274	11,032	10,760	100,054	920	854	821	796	780	765	749	137,512
H8in52		160-XXS ⁽⁵⁾	5.31	135.0	15,681	14,356	13,729	13,276	12,997	12,719	12,405	106,510	1,061	985	947	918	900	882	864	146,385
H8in46 H8in82	8 in	Std-40-40S	5.31 8.25	135.0 209.6	18,537 2,444	16,972 2,238	16,230 2,140	15,695 2,069	15,365 2,026	15,036 1,982	14,665 1,933	115,859 34,171	1,254 165	1,164 153	1,119 148	1,085 143	1,063 140	1,043 138	1021 135	159,235 46,965
H8in76		XS-80-80S	7.75	196.9	3,995	3,658	3,498	3,383	3,312	3,241	3,161	45,369	270	251	241	234	229	225	220	62,354
H8in72		120-140	7.25	184.2	5,993	5,487	5,247	5,074	4,967	4,861	4,741	63,704	405	376	362	351	344	337	330	87,553
H8in67 H8in64		XXS-160	6.88 6.50	174.6 165.1	7,843 10,066	7,181 9,216	6,867 8,814	6,640 8,523	6,501 8,344	6,362 8,165	6,205 7,963	72,848 82,777	531 681	492 632	473 608	459 589	450 577	441 566	432 554	100,121 113,767
H8in62			6.07	154.1	12,182	11,154	10,666	10,314	10,098	9,881	9,638	91,598	824	765	735	713	699	685	671	125,890
	10 in	Std-40-40S	10.25	260.4	2,349	2,150	2,056	1,988	1,947	1,905	1,858	60,190	159	147	142	137	135	132	129	82,724
H10in97 H10in94		XS-60-80-80S 120-100	9.88 9.50	250.8 241.3	3,255 4,319	2,980 3,954	2,850 3,782	2,756 3,657	2,698 3,580	2,640 3,503	2,575 3,417	78,150 95,797	220 292	204 271	196 261	191 253	187 248	183 243	179 238	107,408 131,662
H10in87		XXS-140	8.88	225.4	6,482	5,935	5,676	5,488	5,373	5,258	5,128	122,822	439	407	391	379	372	365	357	168,805
H10in84		160	8.50	215.9	8,055	7,375	7,053	6,820	6,677	6,534	6,372	137,804	545	506	486	471	462	453	444	189,395
H10in82 H10in76			8.25 7.75	209.6 196.9	9,240	8,460 10,160	8,090 9,716	7,823 9,395	7,659 9,198	7,495 9,001	7,310 8,779	144,953 164,295	625 751	580 697	558 670	541 650	530 637	520 624	509 611	199,220 225,804
H12in120	12 in	Std-40-40S	12.00	304.8	3,073	2,813	2,690	2,602	2,547	2,492	2,431	128,991	208	193	186	180	176	173	169	177,283
H12in116		XS-80-80S	11.75	298.5	3,619	3,314	3,169	3,064	3,000	2,936	2,863	145,071	245	227	218	212	208	204	199	199,383
H12in112		100	11.25	285.8	4,913	4,498	4,301	4,159	4,072	3,985	3,886	180,180	332	308	297	288	282	276	271	247,636
H12in106 H12in102		XXS-120-140 N.a.	10.75 10.25	273.1 260.4	6,409 8,163	5,868 7,474	5,612 7,147	5,427 6,912	5,313 6,766	5,199 6,621	5,071 6,458	207,849 235,990	434 552	402 513	387 493	375 478	368 468	361 459	353 450	285,664 324,340
H12in97			9.88	250.8	8,961	8,806	8,421	8,144	7,973	7,802	7,609	258,264	615	604	581	563	552	541	530	354,953
H14in134	14 in	40	13.50	342.9	4,068	3,725	3,562	3,444	3,372	3,300	3,218	251,950	275	255	246	238	233	229	224	346,275
H14in130 H14in124		XS 80-100	13.00 12.50	330.2 317.5	5,213 6,541	4,772 5,989	4,564 5,727	4,413 5,538	4,321 5,422	4,228 5,306	4,124 5,175	295,105 340,316	353 443	327 411	315 395	305 383	299 375	293 368	287 360	405,587 467,724
H14in120		120	12.00	304.8	7,520	7,442	7,116	6,882	6,737	6,593	6,430	377,393	517	510	491	476	466	457	448	518,682
H14in116		140	11.75	298.5	7,800	7,800	7,800	7,553	7,394	7,236	7,057	395,270	538	538	538	522	512	502	491	543,251
H14in112 H14in106		160	11.25 10.75	285.8 273.1	8,519 9,300	8,519 9,300	8,519 9,300	8,519 9,300	8,519 9,300	8,519 9,300	8,153 8,900	439,358 453,314	587 641	587 641	587 641	587 641	587 641	587 641	572 624	603,845 623,027
	16 in	XS-40-60	15.25	387.4	5,193	4,755	4,547	4,397	4,305	4,212	4,108	463,337	351	326	314	304	298	292	286	636,802
H16in144		80	14.50	368.3	6,929	6,344	6,067	5,867 6,996	5,743	5,620	5,482	547,932	469	435	418	406	398	390	382	753,068
H16in140 H16in137		100 120	14.00 13.88	355.6 352.4	8,263 8,622	7,565 7,894	7,235 7,549	7,300	6,849 7,147	6,702 6,993	6,537 6,821	600,178 614,138	559 583	519 541	499 520	484 505	474 495	465 485	455 475	824,874 844,060
H16in134		140	13.50	342.9	9,509	8,706	8,326	8,051	7,882	7,713	7,523	642,791	643	597	574	557	546	535	524	883,440
H16in130 H16in120		160	13.00 12.00	330.2 304.8	10,555 12,526	9,663 11,670	9,241 11,160	8,936 10,792	8,749 10,565	8,561 10,338	8,350 10,083	687,649 771,920	714 851	663 800	637 769	618 746	606 731	594 717	581 702	945,093 1,060,913
H16in112			11.25	285.8	14,191	13,259	12,679	12,261	12,004	11,746	11,457	841,757	964	909	874	848	831	815	797	1,156,895
H18in170	18 in	40-60	17.00	431.8	3,436	3,146	3,009	2,909	2,848	2,787	2,718	407,812	233	216	207	201	197	193	189	560,489
H18in160 H18in152		80-100 120-140	16.00 15.25	406.4 387.4	5,277 6,435	4,831 6,350	4,620 6,072	4,468 5,872	4,374 5,749	4,280 5,625	4,175 5,487	544,190 636,959	357 442	331 436	319 419	309 406	303 398	297 390	291 382	747,925 875,425
H18in144		160	14.50	368.3	7,099	7,099	7,099	7,099	7,099	7,099	6,794	721,795	489	489	489	489	489	489	476	992,021
H18in140			14.00	355.6	7,601	7,601	7,601	7,601	7,601	7,601	7,274	773,906	524	524	524	524	524	524	510	1,063,642
1 1	20 in	40 60	19.25 18.63	489.0 473.1	3,798 4,756	3,478 4 355	3,326 4.164	3,216 4,027	3,148	3,081	3,005 3,763	664,104 771 709	257 322	239 299	229 287	222 278	218 273	214 268	209	912,732 1,060,623
H20in185 H20in180		80-100	18.63 18.00	473.1 457.2	4,756 5,914	4,355 5,415	4,164 5,178	4,027 5,008	3,942 4,902	3,858 4,797	3,763 4,679	771,709 875,652	322 400	299 371	287 357	278 346	273 339	268 333	262 326	1,060,623
H20in170		120-140	17.00	431.8	8,002	7,326	7,006	6,775	6,632	6,490	6,330	1,028,832	541	502	483	468	459	450	441	1,414,008
H20in160		160	16.00	406.4	10,142	9,286	8,880	8,587	8,407	8,227	8,024	1,166,472	686	637	612	594 671	582 659	571 645	559 621	1,603,177
H20in152 H22in210	22 in	40-60	15.25 21.00	387.4 533.4	11,467 2,343	10,498 2,145	10,040 2,052	9,708 1,984	9,505 1,942	9,301 1,901	9,071 1,854	1,258,190 523,324	776 159	720 147	692 141	671 137	658 134	645 132	631 129	1,729,234 719,247
H22in200		80	20.00	508.0	3,633	3,326	3,181	3,076	3,012	2,947	2,874	720,934	246	228	219	213	208	204	200	990,838
H22in192		100-120 140	19.25	489.0 473.1	4,768	4,365	4,175	4,037	3,952	3,867	3,772	861,143	323	299	288	279	274	268	263	1,183,538
H22in185 H22in180		160	18.63 18.00	473.1 457.2	5,793 6,954	5,304 6,445	5,072 6,163	4,905 5,960	4,802 5,835	4,699 5,710	4,583 5,569	968,223 1,071,183	392 472	364 442	350 425	339 412	332 404	326 396	319 388	1,330,707 1,472,214
H22in170			17.00	431.8	7,776	7,776	7,439	7,194	7,043	6,892	6,722	1,223,326	536	533	513	497	487	478	468	1,681,316
H22in160	24 in		16.00	406.4	8,762	8,610	8,234	7,962	7,795	7,628	7,440	1,265,200	602	591 206	568	550	540	529 194	518	1,738,868
H24in232 H24in225	∠ + 1[]	40	23.25 22.63	590.6 574.7	3,276 4,025	3,000 3,685	2,869 3,524	2,774 3,408	2,716 3,337	2,658 3,265	2,592 3,185	1,011,120 1,167,308	222 272	206 253	198 243	192 236	188 231	184 226	180 222	1,389,664 1,604,326
H24in220		60-80	22.00	558.8	4,909	4,495	4,298	4,157	4,069	3,982	3,884	1,319,050	332	308	296	287	282	276	270	1,812,878
H24in210		100-120	21.00	533.4	5,641	5,641	5,641	5,476	5,361	5,246	5,116	1,546,415	389	389 429	389 420	378 417	371 400	364 401	356	2,125,364
H24in200 H24in192		140-160	20.00 19.25	508.0 489.0	6,212 6,695	6,212 6,695	6,212 6,645	6,036 6,425	5,909 6,290	5,783 6,156	5,640 6,004	1,741,564 1,700,755	428 462	428 461	428 458	417 444	409 435	401 427	393 418	2,393,573 2,337,486
H26in270	26 in		27.00	685.8	1,436	1,314	1,257	1,216	1,190	1,165	1,136	646,399	97	90	87	84	82	81	79	888,399
H26in264		CTD VC	26.50	673.1	1,953	1,788	1,710	1,654	1,619	1,584	1,545	838,232	132	123	118	114	112	110	108	1,152,051
H26in254 H26in244		STD-XS 19.1 mm	25.50 24.50	647.7 622.3	2,661 3,764	2,437 3,446	2,330 3,296	2,253 3,187	2,206 3,120	2,159 3,053	2,106 2,978	1,057,275 1,356,207	180 255	167 236	161 227	156 220	153 216	150 212	147 207	1,453,099 1,863,946
H26in240		25.4 mm	24.00	609.6	4,379	4,009	3,834	3,708	3,630	3,552	3,464	1,513,842	296	275	264	256	251	246	241	2,080,597
H26in232		34.9 mm	23.25	590.6	5,188	4,933	4,718	4,562	4,466	4,371	4,263	1,702,722	354	338	325	315	309	303	297	2,340,190
H26in225			22.63	574.7	5,444	5,444	5,444	5,312	5,201	5,089	4,964	1,862,652	375	375	375	367	360	353	346	2,559,995



Hub material - ANSI Material Group 2.2	16Cr 12Ni 2Mo steel	A182 F316/F316H, A351 CF8	М
Clamp material :	Low alloy (AISI 4130/40)	Corrosion Allowance :	Zero

Techlok size	Nom. Pipe	Schedules	Min b seal	ore of Iring			Pressi	ure Rating	g (psi)			Max Bending Capacity (6)					Max Bending Capacity (6)			
	Size		ins	mm	0-100°F	200°F	300°F	400°F	500°F	600°F	700°F	(Ft-lbs)	0-50°C	100°C	150°C	200°C	250°C	300°C	350°C	(Nm)
1in11	1 in	Std-40-40S	1.13	28.6	5,269	4,531	4,092	3,758	3,495	3,302	3,179	242	352	309	282	261	244	231	222	333
1in11		XS-80-80S	1.13	28.6	5,269	4,531	4,092	3,758	3,495	3,302	3,179	242	352	309	282	261	244	231	222	333
1in8		XS-80-80S ⁽⁴⁾	1.00	25.4	7,287	6,266	5,659	5,198	4,833	4,566	4,396	308	487	427	390	361	338	320	308	423
1in7		160	0.91	23.0	9,006	7,745	6,995	6,424	5,974	5,644	5,434	339	602	528	482	446	417	395	380	465
1in5		XXS	0.63	15.9	15,157	13,035	11,772	10,812	10,054	9,499	9,145	428	1,013	888	812	751	703	666	640	588
1in4	4.5.	C1 1 40 40C	0.50	12.7	18,680	16,065	14,508	13,325	12,391	11,706	11,270	460	1,248	1,095	1,000	925	866	820	788	632
1.5in14	1.5 in	Std-40-40S	1.61	40.9	7,186	6,180	5,581	5,126	4,767	4,503	4,335	1,127	480	421	385	356	333	316	303	1,549
1.5in13		XS-80-80S	1.50	38.1	8,379	7,206	6,508	5,977	5,558	5,251	5,056	1,318	560	491	449	415	388	368	354	1,811
1.5in13 1.5in11		160 XXS	1.50 1.13	38.1 28.6	8,379 13,247	7,206 11,392	6,508 10,288	5,977 9,449	5,558 8,787	5,251 8,301	5,056 7,992	1,318 1,604	560 885	491 776	449 709	415 656	388 614	368 582	354 559	1,811 2,205
2in20	2 in	Std-40-40S	2.06	52.4	6,205	5,336	4,819	4,426	4,116	3,889	3,744	1,651	415	364	332	307	288	272	262	2,203
2in20	2 111	XS-80-80S	2.06	52.4	6,205	5,336	4,819	4,426	4,116	3,889	3,744	1,651	415	364	332	307	288	272	262	2,269
2in16		160	1.87	47.4	8,169	7,026	6,345	5,828	5,419	5,119	4,929	1,933	546	479	437	405	379	359	345	2,2657
2in14		XXS	1.61	40.9	10,852	9,332	8,428	7,741	7,198	6,800	6,547	2,312	725	636	581	537	503	477	458	3,177
2in13		7000	1.50	38.1	11.956	10.282	9.286	8,529	7,931	7.492	7,213	2,512	799	701	640	592	554	525	505	3,492
3in27		Std-40-40S	3.06	77.8	4,342	3,734	3,372	3,097	2,880	2,721	2,620	3,469	290	254	233	215	201	191	183	4,768
3in27		XS-80-80S	3.06	77.8	4,342	3,734	3,372	3,097	2,880	2,721	2,620	3,470	290	254	233	215	201	191	183	4,769
3in25		160	2.67	67.9	7,659	6,587	5,949	5.464	5,081	4,800	4,621	4,699	512	449	410	379	355	336	323	6,458
3in23		XXS	2.38	60.3	9,804	8,432	7,615	6,994	6,504	6,144	5,915	5,418	655	575	525	486	454	431	414	7,446
3in20			2.06	52.4	12,279	10,560	9,537	8,759	8,145	7,695	7,409	6,131	821	720	658	608	569	539	518	8,426
4in40	4 in	Std-40-40S	4.06	103.2	2,829	2,433	2,197	2,018	1,876	1,773	1,707	5,072	189	166	151	140	131	124	119	6,971
4in40		XS-80-80S	4.06	103.2	2,829	2,433	2,197	2,018	1,876	1,773	1,707	5,072	189	166	151	140	131	124	119	6,971
4in34		160	3.69	93.7	5,012	4,311	3,893	3,575	3,325	3,141	3,024	7,027	335	294	268	248	232	220	212	9,658
4in31		XXS	3.25	82.6	8,162	7,019	6,339	5,822	5,414	5,115	4,924	8,963	545	478	437	404	378	358	344	12,318
4in27			3.06	77.8	9,244	7,950	7,180	6,594	6,132	5,793	5,577	9,661	618	542	495	458	429	406	390	13,277
4in25			2.67	67.9	11,663	10,030	9,058	8,320	7,736	7,309	7,037	11,069	779	684	625	578	541	512	492	15,214
5in52	5 in	Std-40-40S	5.31	135.0	2,895	2,490	2,248	2,065	1,920	1,814	1,747	11,100	193	170	155	143	134	127	122	15,256
5in50		XS-80-80S	5.00	127.0	4,108	3,533	3,190	2,930	2,725	2,574	2,478	13,976	275	241	220	203	190	180	173	19,208
5in46		160	4.75	120.7	5,391	4,636	4,187	3,845	3,576	3,378	3,252	16,103	360	316	289	267	250	237	228	22,131
5in42		XXS	4.19	106.4	8,054	6,926	6,255	5,745	5,342	5,047	4,859	20,551	538	472	431	399	373	354	340	28,245
5in40			4.06	103.2	8,878	7,635	6,895	6,333	5,889	5,564	5,356	21,072	593	520	475	440	412	390	375	28,961
5in34			3.69	93.7	10,616	9,130	8,245	7,573	7,042	6,653	6,405	23,183	709	622	568	526	492	466	448	31,862
5in31		C. I 40 40C	3.25	82.6	12,804	11,011	9,944	9,133	8,493	8,024	7,725	25,152	856	750	686	634	594	562	540	34,569
6in62	6 in	Std-40-40S	6.07	154.1	3,301	2,839	2,564	2,355	2,190	2,068	1,991	20,547	221	193	177	163	153	145	139	28,239
6in56		XS-80-80S-120 120 ⁽⁴⁾	5.75	146.1	4,966	4,271	3,857	3,542	3,294	3,112	2,996	25,866	332	291	266	246	230	218	210	35,550
6in54			5.50 5.31	139.7 135.0	6,117	5,261	4,751	4,364	4,058	3,833 4,450	3,691	28,168	409	358 416	328 380	303 352	284 329	269 312	258	38,714
6in52 6in46		160-XXS XXS	4.75	135.0	7,101	6,107 7,940	5,515	5,065	4,710		4,284	30,136	474 617	416 541	380 494	352 457	329 428	405	300 390	41,419
6in42		1	4.75	106.4	9,232 11,213	9,643	7,170 8,709	6,586 7,999	6,124 7,438	5,786 7,027	5,570 6,765	35,633 40,864	749	657	600	555	520	403 492	473	48,973 56,163
6in40			4.06	103.2	11,213	10,317	9,317	8,558	7,438	7,518	7,238	40,804	802	703	642	594	556	527	506	56,267
8in82	8 in	Std-40-40S	8.25	209.6	2.311	1.988	1.795	1,649	1.533	1.449	1.395	34,104	154	135	124	114	107	102	98	46,872
8in76	3 111	XS-80-80S	7.75	196.9	3,485	2,997	2,707	2,486	2,312	2,184	2,103	45,081	233	204	187	173	162	153	147	61,958
8in76		100	7.75	196.9	3,485	2,997	2,707	2,486	2,312	2,184	2,103	45.081	233	204	187	173	162	153	147	61,958
8in72		120-140	7.25	184.2	4,954	4,260	3,847	3,534	3,286	3,104	2,989	54,965	331	290	265	245	230	218	209	75,543
8in67		XXS-160	6.88	174.6	6,296	5,414	4,890	4,491	4,176	3,945	3,798	61,051	421	369	337	312	292	276	266	83,907
8in62			6.07	154.1	8,705	7,486	6,761	6,210	5,774	5,455	5,252	73,541	582	510	466	431	404	382	367	101,073
8in56			5.75	146.1	10,377	8,924	8,060	7,402	6,884	6,503	6,261	79,512	693	608	556	514	481	456	438	109,279
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Light Duty Series

Techlok size	Nom. Pipe Size	Schedules	Min b seal				Pressu	ure Rating	g (psi)			Max Bending Capacity (6)	(6)					Max Bending Capacity (6)		
	Size		ins	mm	0-100°F	200°F	300°F	400°F	500°F	600°F	700°F	(Ft-lbs)	0-50°C	100°C	150°C	200°C	250°C	300°C	350°C	(Nm)
L14in134	14in	40	13.50	342.9	1,753	1,507	1,361	1,250	1,163	1,098	1,058	107,741	117	103	94	87	81	77	74	148,077
L14in130		XS	13.00	330.2	2,403	2,066	1,866	1,714	1,594	1,506	1,450	134,992	161	141	129	119	111	106	101	185,530
L14in124		80-100	12.50	317.5	3,127	2,689	2,429	2,231	2,074	1,960	1,887	161,499	209	183	167	155	145	137	132	221,961
L14in120		120	12.00	304.8	4,090	3,517	3,177	2,918	2,713	2,563	2,468	189,083	273	240	219	203	190	180	173	259,872
L14in116		140	11.75	298.5	4,239	3,646	3,293	3,024	2,812	2,657	2,558	199,286	283	248	227	210	197	186	179	273,895
L14in112		160	11.25	285.8	4,633	3,984	3,598	3,305	3,073	2,903	2,795	228,220	310	272	248	229	215	203	196	313,661
L16in152	16in	XS-40-60	15.25	387.4	1,987	1,709	1,543	1,418	1,318	1,245	1,199	177,568	133	116	106	98	92	87	84	244,046
L16in144		80	14.50	368.3	2,916	2,508	2,265	2,080	1,935	1,828	1,760	230,628	195	171	156	144	135	128	123	316,971
L16in140		100	14.00	355.6	3,151	2,710	2,447	2,248	2,090	1,974	1,901	263,952	211	185	169	156	146	138	133	362,771
L16in137		120	13.88	352.4	3,204	2,755	2,488	2,285	2,125	2,008	1,933	272,708	214	188	172	159	149	141	135	374,804
L16in134		140	13.50	342.9	3,369	2,897	2,616	2,403	2,235	2,111	2,032	283,254	225	197	180	167	156	148	142	389,299
L16in130		160	13.00	330.2	3,609	3,104	2,803	2,575	2,394	2,262	2,178	276,669	241	212	193	179	167	159	152	380,249
L18in170	18in	40-60	17.00	431.8	2,167	1,864	1,683	1,546	1,438	1,358	1,308	266,845	145	127	116	107	100	95	91	366,747
L18in160		80-100	16.00	406.4	2,814	2,420	2,186	2,008	1,867	1,764	1,698	361,660	188	165	151	139	130	124	119	497,059
L18in152		120-140	15.25	387.4	3,073	2,643	2,387	2,192	2,038	1,926	1,854	374,388	205	180	165	152	142	135	130	514,552
L18in144		160	14.50	368.3	3,371	2,899	2,618	2,404	2,236	2,112	2,034	362,761	225	198	180	167	156	148	142	498,571
L20in192	20in	40	19.25	489.0	2,164	1,861	1,680	1,543	1,435	1,356	1,305	402,103	145	127	116	107	100	95	91	552,643
L20in185		60	18.63	473.1	2,281	1,961	1,771	1,627	1,513	1,429	1,376	465,336	152	134	122	113	106	100	96	639,549
L20in180		80-100	18.00	457.2	2,441	2,100	1,896	1,742	1,620	1,530	1,473	472,927	163	143	131	121	113	107	103	649,982
L20in170		120-140	17.00	431.8	2,708	2,329	2,103	1,932	1,796	1,697	1,634	455,775	181	159	145	134	126	119	114	626,409
L20in160		160	16.00	406.4	3,030	2,606	2,353	2,161	2,010	1,899	1,828	438,938	202	178	162	150	140	133	128	603,268
L24in225	24in	40	22.63	574.7	2,517	2,165	1,955	1,796	1,670	1,577	1,519	759,344	168	148	135	125	117	111	106	1,043,629
L24in220		60-80	22.00	558.8	2,666	2,293	2,071	1,902	1,769	1,671	1,609	863,841	178	156	143	132	124	117	113	1,187,248
L24in210		100-120	21.00	533.4	2,904	2,497	2,255	2,071	1,926	1,820	1,752	895,478	194	170	155	144	135	128	123	1,230,729
L24in200		140-160	20.00	508.0	3,179	2,734	2,469	2,267	2,108	1,992	1,918	861,369	212	186	170	157	147	140	134	1,183,850

NOTES:

- 1) Pressure ratings based upon requirements of ASME VIII Div 2 Part 5 2) Max hydrotest = 1.5 x rated pressure. 3) Pressure ratings shown are based upon the hub bore being equal to the sealring bore.

- 4) Optional sealring sizes for pipe schedules shown.
 5) Optional pipe selection for high pressure applications.
 6) See page 9 for bending moment calculation method
 7) Pressure ratings do not reflect the pressure capacity of the adjoining pipe.



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Hub material - ANSI Material Group 2.2	16Cr 12Ni 2Mo steel	A182 F316/F316H, A351 CF8	М
Clamp material :	Low alloy (AISI 4130/40)	Corrosion Allowance :	Zero

size	Dina-	Schedules	seal	ore of			Pressu	ure Rating	g (psi)			Max Bending Capacity (6)						Max Bending Capacity (6)		
	Pipe Size		ins	mm	0-100°F	200°F	300°F	400°F	500°F	600°F	700°F	(Ft-lbs)	0-50°C	100°C	150°C	200°C	250°C	300°C	350°C	(Nm)
H2in20	2 in	Std-40-40S	2.06	52.4	11,096	9,542	8,618	7,915	7,360	6,953	6,695	5,354	741	650	594	550	514	487	468	7,358
H2in20		XS-80-80S	2.06	52.4	11,096	9,542	8,618	7,915	7,360	6,953	6,695	5,354	741	650	594	550	514	487	468	7,358
H2in16 H2in14		XXS	1.87 1.61	47.4 40.9	12,826 15,308	11,030 13,165	9,961 11,889	9,149 10,920	8,508 10,154	8,038 9,593	7,738 9,236	5,598 6,093	857 1,023	752 897	687 820	635 758	595 710	563 672	541 646	7,694 8,375
H2in13			1.50	38.1	16,377	14,084	12,719	11,682	10,863	10,263	9,881	6,407	1,094	960	877	811	759	719	691	8,806
H3in27 H3in27	3 in	Std-40-40S XS-80-80S	3.06 3.06	77.8 77.8	7,314 7,314	6,290 6,290	5,681 5,681	5,218 5,218	4,852 4,852	4,584 4,584	4,413 4,413	6,777 6,777	489 489	429 429	392 392	362 362	339 339	321 321	309 309	9,314 9,314
H3in25		160	2.67	67.9	9,804	8,431	7,614	6,993	6,503	6,144	5,915	8,122	655	575	525	486	454	431	414	11,163
H3in23		XXS	2.38	60.3 52.4	11,879	10,216 12,256	9,226 11,068	8,474	7,880 9,453	7,444	7,167	8,845	794 952	696 835	636	588 706	551 661	522 626	501 602	12,156
H3in20 H4in40	4 in	Std-40-40S	4.06	103.2	14,251 6,360	5,470	4,940	10,166 4,537	4,219	8,931 3,986	8,598 3,837	9,612 12,261	425	373	763 341	315	295	279	268	13,211 16,852
H4in40		XS-80-80S	4.06	103.2	6,360	5,470	4,940	4,537	4,219	3,986	3,837	12,261	425	373	341	315	295	279	268	16,852
H4in34 H4in31		160 XXS	3.69 3.25	93.7 82.6	8,409 10,681	7,231 9,186	6,531 8,295	5,998 7,619	5,578 7,085	5,269 6,693	5,073 6,444	14,425 16,428	562 714	493 626	450 572	416 529	390 495	369 469	355 451	19,825 22,578
H4in27			3.06	77.8	11,721	10,080	9,103	8,361	7,775	7,345	7,072	17,116	783	687	628	581	543	515	495	23,523
H4in25 H8in56	6in	80-80S-120 (5)	2.67 5.75	67.9 146.1	14,025 9,459	12,062 8,134	10,893 7,346	10,005 6,747	9,303 6,274	8,789 5,927	8,462 5,707	18,609 68,468	937 632	822 554	751 506	695 469	650 438	616 415	592 399	25,575 94,101
H8in52	OIII	160-XXS (5)	5.31	135.0	10,868	9,346	8,441	7,753	7,209	6,811	6,557	72,628	726	637	582	538	504	477	459	99,818
H8in46			5.31	135.0	12,804	11,011	9,944	9,133	8,493	8,024	7,725	78,718	856	750	686	634	594	562	540	108,188
H8in82 H8in76	8 in	Std-40-40S XS-80-80S	8.25 7.75	209.6 196.9	1,804 2,872	1,552 2,470	1,401 2,231	1,287 2,049	1,197 1,905	1,131 1,800	1,089 1,733	25,068 32,592	121 192	106 168	97 154	89 142	84 133	79 126	76 121	34,454 44,793
H8in72		120-140	7.25	184.2	4,234	3,642	3,289	3,021	2,809	2,654	2,555	44,537	283	248	227	210	196	186	179	61,210
H8in67		XXS-160	6.88	174.6	5,492	4,723	4,265	3,917	3,643	3,441	3,313	50,521	367	322	294	272	255	241	232	69,435
H8in64 H8in62			6.50 6.07	165.1 154.1	6,997 8,499	6,017 7,309	5,434 6,601	4,991 6,062	4,641 5,637	4,384 5,326	4,221 5,128	57,051 62,879	468 568	410 498	375 455	347 421	324 394	307 373	295 359	78,410 86,420
H10in102	10 in	Std-40-40S	10.25	260.4	1,708	1,469	1,326	1,218	1,133	1,070	1,030	43,648	114	100	91	85	79	75	72	59,989
H10in97 H10in94		XS-60-80-80S 120-100	9.88 9.50	250.8 241.3	2,330 3,054	2,004 2,626	1,810 2,372	1,662 2,178	1,546 2,026	1,460 1,914	1,406 1,842	55,536 67,185	156 204	137 179	125 164	115 151	108 142	102 134	98 129	76,327 92,338
H10in87		XXS-140	8.88	225.4	4,519	3,886	3,509	3,223	2,020	2,832	2,726	84,967	302	265	242	224	209	198	191	116,777
H10in84		160	8.50	215.9	5,581	4,799	4,334	3,981	3,702	3,497	3,367	94,973	373	327	299	276	259	245	236	130,528
H10in82 H10in76			8.25 7.75	209.6 196.9	6,379 7,674	5,486 6,600	4,954 5,960	4,550 5,474	4,231 5,091	3,997 4,809	3,848 4,630	99,612 112,325	426 513	374 450	342 411	316 380	296 356	280 337	269 324	136,905 154,378
	12 in	Std-40-40S	12.00	304.8	2,181	1,875	1,694	1,556	1,447	1,367	1,316	90,926	146	128	117	108	101	96	92	124,967
H12in116		XS-80-80S	11.75	298.5	2,551	2,194	1,981	1,820	1,692	1,598	1,539	101,522	170	149	137	126	118	112	108	139,530
H12in112 H12in106		100 XXS-120-140	11.25 10.75	285.8 273.1	3,425 4,434	2,946 3,813	2,660 3,443	2,443 3,163	2,272 2,941	2,146 2,778	2,066 2,675	125,095 143,240	229 296	201 260	183 237	170 220	159 206	150 195	145 187	171,929 196,867
H12in102		N.a.	10.25	260.4	5,613	4,827	4,359	4,004	3,723	3,517	3,386	161,751	375	329	301	278	260	246	237	222,308
H12in97 H14in134	14 in	40	9.88 13.50	250.8 342.9	6,629 2,834	5,701 2,437	5,148 2,201	4,728 2,021	4,397 1,880	4,154 1,776	3,999 1,710	176,436 209,433	443 189	388 166	355 152	328 140	307 131	291 124	280 120	242,491 287,841
H14in130	14111	XS	13.00	330.2	3,604	3,099	2,799	2,571	2,390	2,258	2,174	203,346	241	211	193	178	167	158	152	279,475
H14in124		80-100	12.50	317.5	4,497	3,868	3,493	3,208	2,983	2,818	2,713	233,196	301	264	241	223	208	197	190	320,501
H14in120 H14in116		120 140	12.00 11.75	304.8 298.5	5,560 6,092	4,782 5,239	4,318 4,732	3,966 4,346	3,688 4,041	3,484 3,818	3,355 3,676	257,666 269,433	372 407	326 357	298 326	275 302	258 282	244 268	235 257	354,131 370,304
H14in112		160	11.25	285.8	7,280	6,261	5,654	5,193	4,829	4,562	4,392	298,600	486	427	390	361	337	320	307	410,391
H14in106 H16in152	16 in	XS-40-60	10.75 15.25	273.1 387.4	8,119 3,572	6,983 3,072	6,306 2,774	5,792 2,548	5,386 2,370	5,088 2,239	4,899 2,155	312,799 318.016	543 239	476 209	435 191	402 177	376 166	357 157	343 151	429,905 437,076
H16in144	10111	80	14.50	368.3	4,736	4,073	3,678	3,378	3,141	2,968	2,857	373,874	316	278	254	235	220	208	200	513,846
H16in140		100	14.00	355.6	5,629	4,841	4,372	4,016	3,734	3,528	3,396	408,343	376	330	301	279	261	247	238	561,219
H16in137 H16in134		120 140	13.88 13.50	352.4 342.9	5,869 6,513	5,048 5,601	4,559 5,058	4,187 4,646	3,893 4,320	3,678 4,081	3,541 3,929	417,570 436,357	392 435	344 382	314 349	291 323	272 302	258 286	248 275	573,900 599,721
H16in130		160	13.00	330.2	7,215	6,205	5,604	5,147	4,786	4,521	4,353	465,918	482	423	386	357	334	317	305	640,350
H16in120 H16in112			12.00 11.25	304.8 285.8	8,687 9,854	7,471 8,474	6,747 7,653	6,197 7,029	5,763 6,536	5,444 6,175	5,241 5,945	521,432 567,573	581 658	509 577	465 528	430 488	403 457	381 433	367 416	716,647 780,062
	18 in	40-60	17.00	431.8	2,387	2,053	1,854	1,703	1,583	1,496	1,440	282,528	160	140	128	118	111	105	101	388,302
H18in160		80-100	16.00	406.4	3,623	3,116	2,814	2,584	2,403	2,270	2,186	372,853	242	212	194	179	168	159	153	512,442
H18in152 H18in144		120-140 160	15.25 14.50	387.4 368.3	4,734 6,042	4,072 5,196	3,677 4,692	3,377 4,310	3,140 4,008	2,967 3,786	2,856 3,645	434,132 490,119	316 404	277 354	254 324	234 299	219 280	208 265	200 255	596,663 673,610
H18in140			14.00	355.6	6,792	5,841	5,275	4,845	4,505	4,256	4,098	524,487	454	398	364	336	315	298	287	720,845
H20in192 H20in185	20 in	40 60	19.25 18.63	489.0 473.1	2,617 3,260	2,251 2,804	2,033 2,532	1,867 2,325	1,736 2,162	1,640 2,043	1,579 1,967	456,593 527,712	175 218	153 191	140 175	130 161	121 151	115 143	110 138	627,533 725,278
H20in185 H20in180		80-100	18.00	473.1 457.2	4,035	3,470	3,134	2,325	2,162	2,529	2,434	527,712	270	236	216	200	187	143 177	170	819,924
H20in170		120-140	17.00	431.8	5,432	4,671	4,218	3,874	3,603	3,404	3,277	697,842	363	318	291	269	252	239	229	959,101
H20in160 H20in152		160	16.00 15.25	406.4 387.4	6,907 7,797	5,940 6,705	5,365 6,055	4,927 5,562	4,582 5,172	4,329 4,886	4,167 4,704	788,840 849,370	462 521	405 457	370 417	342 386	320 361	303 342	292 329	1,084,167 1,167,358
H22in210	22 in	40-60	21.00	533.4	1,638	1,409	1,272	1,168	1,086	1,026	988	364,148	109	96	88	81	76	72	69	500,478
H22in200 H22in192		80 100-120	20.00 19.25	508.0 489.0	2,504 3,265	2,154 2,808	1,945 2,536	1,786 2,329	1,661 2,166	1,569 2,046	1,511 1,970	495,429 588,335	167 218	147 191	134 175	124 162	116 151	110 143	106 138	680,908 808,596
H22in192		140	18.63	473.1	3,952	3,399	3,070	2,329	2,622	2,477	2,384	659,090	264	232	212	196	183	174	167	905,841
H22in180		160	18.00	457.2	4,784	4,115	3,716	3,413	3,174	2,998	2,887	727,309	320	280	256	237	222	210	202	999,600
H22in170 H22in160			17.00 16.00	431.8 406.4	5,652 6,254	4,861 5,379	4,390 4,858	4,032 4,461	3,749 4,149	3,542 3,919	3,410 3,773	827,907 843,467	378 418	331 367	303 335	280 310	262 290	248 275	239 264	1,137,860 1,159,245
H24in232	24 in		23.25	590.6	2,255	1,939	1,751	1,609	1,496	1,413	1,361	693,704	151	132	121	112	105	99	95	953,414
H24in225		40 60-80	22.63	574.7 558.8	2,758	2,372 2,880	2,142 2,601	1,967	1,829 2,221	1,728 2,098	1,664 2,020	797,118	184 224	162 196	148 179	137 166	128 155	121 147	116 141	1,095,545 1,234,012
H24in220 H24in210		100-80	22.00 21.00	558.8 533.4	3,349 4,376	2,880 3,763	3,399	2,389 3,121	2,221	2,098	2,020	897,867 1,048,472	292	196 256	179 234	166 217	203	147 192	185	1,234,012
H24in200		140-160	20.00	508.0	4,741	4,078	3,683	3,382	3,145	2,971	2,861	1,161,043	317	278	254	235	220	208	200	1,595,716
H24in192 H26in270	26 in		19.25 27.00	489.0 685.8	5,047 1,018	4,340 875	3,919 791	3,600 726	3,348 675	3,162 638	3,045 614	1,133,837 454,432	337 68	296 60	270 55	250 50	234 47	222 45	213 43	1,558,324 624,563
H26in264	20111		26.50	673.1	1,364	1,173	1,060	973	905	855	823	581,692	91	80	73	68	63	60	58	799,467
H26in254		STD-XS	25.50	647.7	1,839	1,581	1,428	1,312	1,220	1,152	1,109	728,129	123	108	98	91	85 110	81	78	1,000,728
H26in244 H26in240		19.1 mm 25.4 mm	24.50 24.00	622.3 609.6	2,577 2,989	2,216 2,570	2,002 2,321	1,838 2,132	1,710 1,982	1,615 1,873	1,555 1,803	926,498 1,031,162	172 200	151 175	138 160	128 148	119 139	113 131	109 126	1,273,362 1,417,210
H26in232		34.9 mm	23.25	590.6	3,664	3,151	2,845	2,613	2,430	2,296	2,210	1,156,160	245	215	196	181	170	161	155	1,589,004
H26in225			22.63	574.7	4,256	3,661	3,306	3,036	2,823	2,667	2,568	1,261,915	284	249	228	211	197	187	180	1,734,353

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Hub material - ANSI Material Group 2.2	16Cr 12Ni 2Mo steel	A182 F316/F316H, A351 CF8	М
Clamp material :	Stainless Steel (A182 F304)	Corrosion Allowance:	Zero

Techlok size	Nom. Pipe	Schedules		ore of Iring			Pressi	ure Rating	g (psi)			Max Bending Capacity (6)	ity ⁽⁶⁾				Max Bending Capacity (6)			
	Size		ins	mm	0-100°F	200°F	300°F	400°F	500°F	600°F	700°F	(Ft-lbs)	0-50°C	100°C	150°C	200°C	250°C	300°C	350°C	(Nm)
1in11	1 in	Std-40-40S	1.13	28.6	5,269	4,531	4,092	3,758	3,495	3,302	3,179	242	352	309	282	261	244	231	222	333
1in11		XS-80-80S	1.13	28.6	5,269	4,531	4,092	3,758	3,495	3,302	3,179	242	352	309	282	261	244	231	222	333
1in8		XS-80-80S ⁽⁴⁾	1.00	25.4	7,287	6,266	5,659	5,198	4,833	4,566	4,396	308	487	427	390	361	338	320	308	423
1in7		160	0.91	23.0	9,006	7,745	6,945	6,418	5,974	5,644	5,434	339	602	527	479	445	417	395	380	465
1in5		XXS	0.63	15.9	15,157	13,035	11,772	10,812	10,054	9,499	9,145	356	1,013	888	812	751	703	666	640	489
1in4		C1 1 40 40C	0.50	12.7	18,680	16,065	14,508	13,325	12,391	11,706	11,270	338	1,248	1,095	1,000	925	866	820	788	464
1.5in14	1.5 in	Std-40-40S	1.61	40.9	7,186	6,180	5,581	5,126	4,767	4,503	4,335	1,127	480	421	385	356	333	316	303	1,549
1.5in13		XS-80-80S	1.50	38.1	8,379	7,206	6,508	5,977	5,558	5,251	5,056	1,318	560	491	449	415	388	368	354	1,811
1.5in13		160 XXS	1.50 1.13	38.1	8,379	7,206	6,508	5,977	5,558	5,251	5,056	1,318	560	491 776	449	415 656	388	368 582	354 559	1,811
1.5in11 2in20	2 in	Std-40-40S	2.06	28.6 52.4	13,247 6,205	11,392 5,336	10,288 4,819	9,449 4,426	8,787 4,116	8,301 3,889	7,992 3,744	1,575 1,651	885 415	364	709 332	307	614 288	272		2,165
2in20 2in20	2 111	XS-80-80S	2.06	52.4 52.4	6,205	5,336	4,819	4,426	4,116	3,889	3,744	1,651	415	364 364	332	307	288 288	272	262 262	2,269 2,269
2in20 2in16		160	1.87	47.4	8,169	6,938	6,217	5,745	5,384	5,107	4,885	1,031	545	472	429	399	200 376	357	343	2,269
2in10 2in14		XXS	1.61	40.9	10,852	9,177	8,222	7,598	7,121	6,754	6,460	2,312	723	625	567	527	497	473	453	3,177
2in13		1000	1.50	38.1	11.956	10.282	9.286	8,529	7,121	7.492	7,213	2,512	799	701	640	592	554	525	505	3,455
3in27		Std-40-40S	3.06	77.8	4,342	3,734	3,372	3,097	2,880	2,721	2,620	3,469	290	254	233	215	201	191	183	4,768
3in27		XS-80-80S	3.06	77.8	4,342	3,734	3,372	3,097	2,880	2,721	2,620	3,470	290	254	233	215	201	191	183	4,769
3in25		160	2.67	67.9	7,524	6,270	5,618	5,191	4,865	4,614	4,414	4,699	500	427	387	360	339	323	310	6,458
3in23		XXS	2.38	60.3	9,497	7,914	7,091	6,553	6,141	5,825	5,571	5,418	631	539	489	455	429	408	391	7,446
3in20		70.0	2.06	52.4	12,279	10,293	9,222	8,522	7,987	7,575	7,246	6,131	816	701	636	591	557	530	508	8,426
4in40	4 in	Std-40-40S	4.06	103.2	2,829	2,433	2,197	2,018	1,876	1,773	1,707	5,072	189	166	151	140	131	124	119	6,971
4in40		XS-80-80S	4.06	103.2	2,829	2,433	2,197	2,018	1,876	1,773	1,707	5,072	189	166	151	140	131	124	119	6,971
4in34		160	3.69	93.7	5,012	4,311	3,893	3,575	3,325	3,141	3,024	7,027	335	294	268	248	232	220	212	9,658
4in31		XXS	3.25	82.6	7,486	6,238	5,590	5,165	4,841	4,591	4,392	8,963	497	425	385	358	338	321	308	12,318
4in27			3.06	77.8	8,385	6,988	6,261	5,786	5,422	5,143	4,919	9,661	557	476	432	402	378	360	345	13,277
4in25			2.67	67.9	10,740	8,950	8,019	7,410	6,945	6,587	6,301	11,069	713	609	553	514	485	461	442	15,214
5in52	5 in	Std-40-40S	5.31	135.0	2,895	2,490	2,248	2,065	1,920	1,814	1,747	11,100	193	170	155	143	134	127	122	15,256
5in50		XS-80-80S	5.00	127.0	4,108	3,533	3,190	2,930	2,725	2,574	2,478	13,976	275	241	220	203	190	180	173	19,208
5in46		160	4.75	120.7	4,780	3,983	3,569	3,298	3,091	2,932	2,804	16,103	317	271	246	229	216	205	197	22,131
5in42		XXS	4.19	106.4	6,082	5,068	4,541	4,197	3,933	3,730	3,568	20,551	404	345	313	291	274	261	250	28,245
5in40			4.06	103.2	6,443	5,369	4,811	4,446	4,167	3,952	3,780	20,292	428	366	332	309	291	277	265	27,889
5in34			3.69	93.7	7,953	6,627	5,938	5,487	5,143	4,878	4,666	19,017	528	451	409	381	359	341	327	26,136
5in31			3.25	82.6	10,122	8,435	7,557	6,984	6,545	6,208	5,938	17,780	672	574	521	485	457	435	416	24,437
6in62	6 in	Std-40-40S	6.07	154.1	3,301	2,839	2,564	2,355	2,190	2,068	1,991	20,547	221	193	177	163	153	145	139	28,239
6in56		XS-80-80S-120	5.75	146.1	4,640	3,867	3,465	3,202	3,001	2,846	2,722	25,866	308	263	239	222	209	199	191	35,550
6in54		120 (4)	5.50	139.7	5,055	4,213	3,774	3,488	3,269	3,100	2,966	28,168	336	287	260	242	228	217	208	38,714
6in52		160-XXS	5.31	135.0	5,403	4,503	4,034	3,728	3,494	3,314	3,170	30,136	359	307	278	259	244	232	222	41,419
6in46		XXS	4.75	120.7	6,696	5,580	5,000	4,620	4,330	4,107	3,928	32,872	445	380	345	321	302	287	276	45,178
6in42			4.19	106.4	8,520	7,100	6,361	5,879	5,509	5,225	4,998	33,536	566	483	439	408	384	366	351	46,092
6in40			4.06	103.2	9,026	7,521	6,739	6,228	5,837	5,536	5,295	30,488	599	512	465	432	407	387	371	41,902
8in82	8 in	Std-40-40S	8.25	209.6	2,311	1,988	1,795	1,649	1,533	1,449	1,395	34,104	154	135	124	114	107	102	98	46,872
8in76		XS-80-80S	7.75	196.9	3,485	2,997	2,707	2,486	2,312	2,184	2,103	45,081	233	204	187	173	162	153	147	61,958
8in76		100	7.75	196.9	3,485	2,997	2,707	2,486	2,312	2,184	2,103	45,081	233	204	187	173	162	153	147	61,958
8in72		120-140	7.25	184.2	4,499	3,749	3,359	3,104	2,909	2,759	2,639	54,965	299	255	232	215	203	193	185	75,543
8in67		XXS-160	6.88	174.6	4,975	4,145	3,714	3,432	3,217	3,051	2,918	61,051	330	282	256	238	224	214	205	83,907
8in62			6.07	154.1	6,305	5,254	4,708	4,350	4,077	3,867	3,699	66,512	419	358	325	302	285	271	259	91,413
8in56			5.75	146.1	7,370	6,141	5,503	5,085	4,766	4,520	4,323	64,407	489	418	379	353	333	316	303	88,520

Light Duty Series

Techlok size	Nom. Pipe Size	Schedules	Min b seal				Pressu	ure Rating	g (psi)			Max Bending Capacity (6)	(6)					Max Bending Capacity (6)		
	Size		ins	mm	0-100°F	200°F	300°F	400°F	500°F	600°F	700°F	(Ft-lbs)	0-50°C	100°C	150°C	200°C	250°C	300°C	350°C	(Nm)
L14in134	14in	40	13.50	342.9	1,753	1,507	1,361	1,250	1,163	1,098	1,058	107,741	117	103	94	87	81	77	74	148,077
L14in130		XS	13.00	330.2	2,403	2,066	1,866	1,714	1,594	1,506	1,450	134,992	161	141	129	119	111	106	101	185,530
L14in124		80-100	12.50	317.5	2,707	2,255	2,021	1,868	1,750	1,660	1,588	161,499	180	154	139	130	122	116	111	221,961
L14in120		120	12.00	304.8	2,958	2,465	2,208	2,041	1,913	1,814	1,735	189,083	196	168	152	142	133	127	122	259,872
L14in116		140	11.75	298.5	3,068	2,557	2,291	2,117	1,984	1,882	1,800	191,162	204	174	158	147	138	132	126	262,730
L14in112		160	11.25	285.8	3,351	2,792	2,502	2,312	2,167	2,055	1,966	196,298	223	190	172	160	151	144	138	269,788
L16in152	16in	XS-40-60	15.25	387.4	1,987	1,709	1,543	1,418	1,318	1,245	1,199	177,568	133	116	106	98	92	87	84	244,046
L16in144		80	14.50	368.3	2,300	1,917	1,717	1,587	1,487	1,411	1,349	230,628	153	130	118	110	104	99	95	316,971
L16in140		100	14.00	355.6	2,463	2,052	1,839	1,699	1,592	1,510	1,445	255,571	164	140	127	118	111	106	101	351,252
L16in137		120	13.88	352.4	2,506	2,088	1,871	1,729	1,621	1,537	1,470	255,571	166	142	129	120	113	108	103	351,252
L16in134		140	13.50	342.9	2,643	2,203	1,973	1,824	1,709	1,621	1,551	243,966	176	150	136	127	119	113	109	335,302
L16in130		160	13.00	330.2	2,844	2,370	2,123	1,962	1,839	1,744	1,668	238,265	189	161	146	136	128	122	117	327,467
L18in170	18in	40-60	17.00	431.8	1,714	1,428	1,279	1,182	1,108	1,051	1,005	266,845	114	97	88	82	77	74	71	366,747
L18in160		80-100	16.00	406.4	1,931	1,609	1,441	1,332	1,248	1,184	1,133	291,054	128	110	99	92	87	83	79	400,019
L18in152		120-140	15.25	387.4	2,120	1,767	1,583	1,463	1,371	1,300	1,244	282,152	141	120	109	102	96	91	87	387,784
L18in144		160	14.50	368.3	2,339	1,949	1,746	1,614	1,513	1,435	1,372	273,389	155	133	120	112	106	100	96	375,741
L20in192	20in	40	19.25	489.0	1,816	1,513	1,356	1,253	1,174	1,114	1,065	402,103	121	103	93	87	82	78	75	552,643
L20in185		60	18.63	473.1	1,925	1,604	1,437	1,328	1,245	1,180	1,129	450,208	128	109	99	92	87	83	79	618,758
L20in180		80-100	18.00	457.2	2,071	1,725	1,546	1,429	1,339	1,270	1,215	438,095	138	117	107	99	93	89	85	602,110
L20in170		120-140	17.00	431.8	2,316	1,930	1,729	1,598	1,497	1,420	1,358	422,207	154	131	119	111	104	99	95	580,273
L20in160		160	16.00	406.4	2,609	2,174	1,948	1,800	1,687	1,600	1,531	406,609	173	148	134	125	118	112	107	558,836
L24in225	24in	40	22.63	574.7	1,663	1,385	1,241	1,147	1,075	1,020	975	688,588	110	94	86	80	75	71	68	946,383
L24in220		60-80	22.00	558.8	1,766	1,472	1,319	1,219	1,142	1,083	1,036	673,194	117	100	91	85	80	76	73	925,225
L24in210		100-120	21.00	533.4	1,935	1,613	1,445	1,335	1,251	1,187	1,135	652,949	129	110	100	93	87	83	80	897,401
L24in200		140-160	20.00	508.0	2,131	1,776	1,591	1,470	1,378	1,307	1,250	628,078	142	121	110	102	96	91	88	863,219

NOTES:

- 1) Pressure ratings based upon requirements of ASME VIII Div 2 Part 5 2) Max hydrotest = 1.5 x rated pressure. 3) Pressure ratings shown are based upon the hub bore being equal to the sealring bore.

- 4) Optional sealring sizes for pipe schedules shown.
 5) Optional pipe selection for high pressure applications.
 6) See page 9 for bending moment calculation method
 7) Pressure ratings do not reflect the pressure capacity of the adjoining pipe.





Hub material - ANSI Material Group 2.2 16Cr 12Ni 2Mo steel

Clamp material:

Stainless Steel (A182 F304)

Corrosion Allowance:

Zero

Techlok	Nom.	Schedules	Min b				Pressu	ıre Rating	g (psi)			Max Bending Capacity (6)			Pressu	ıre rating	g (bar)			Max Bending Capacity (6)
size	Pipe Size		seal ins		0-100°F	200°F	300°F	400°F	500°F	600°F	700°F	(Ft-lbs)	0-50°C	100°C	150°C	200°C	250°C	300°C	350°C	
H2in20	2 in	Std-40-40S	2.06	mm 52.4	11,096	9,542	8,618	7,915	7,360	6,953	6,695	5,354	741	650	594	550	514	487	468	(Nm) 7,358
H2in20		XS-80-80S	2.06	52.4	11,096	9,542	8,618	7,915	7,360	6,953	6,695	5,354	741	650	594	550	514	487	468	7,358
H2in16 H2in14		160 XXS	1.87 1.61	47.4 40.9	12,826 15,308	11,030 13,165	9,961 11,889	9,149 10,920	8,508 10,154	8,038 9,593	7,738 9,236	5,598 6,093	857 1,023	752 897	687 820	635 758	595 710	563 672	541 646	7,694 8,375
H2in13	2 in	Std-40-40S	1.50	38.1	16,377	14,084	12,719 5,681	11,682	10,863	10,263	9,881	6,276	1,094	960	877 392	811 362	759	719	691	8,626
H3in27 H3in27	3 in	XS-80-80S	3.06 3.06	77.8 77.8	7,314 7,314	6,290 6,290	5,681	5,218 5,218	4,852 4,852	4,584 4,584	4,413 4,413	6,777 6,777	489 489	429 429	392 392	362	339 339	321 321	309 309	9,314 9,314
H3in25 H3in23		160 XXS	2.67 2.38	67.9 60.3	9,804 11,879	8,431 10,216	7,614 9,226	6,993	6,503 7,880	6,144 7,444	5,915 7,167	8,122 8,845	655 794	575 696	525 636	486 588	454 551	431 522	414 501	11,163 12,156
H3in20		\^>	2.06	52.4	14,251	12,256	11,068	8,474 10,166	9,453	8,931	8,598	9,612	952	835	763	706	661	626	602	13,211
H4in40 H4in40	4 in	Std-40-40S XS-80-80S	4.06 4.06	103.2 103.2	5,889	4,908 4,908	4,397 4,397	4,063	3,808 3,808	3,612	3,455 3,455	12,261	391 391	334 334	303 303	282 282	266 266	253 253	242 242	16,852 16,852
H4in34		160	3.69	93.7	5,889 7,269	6,058	5,428	4,063 5,016	4,701	3,612 4,458	4,265	12,261 14,425	483	412	374	348	328	312	299	19,825
H4in31 H4in27		XXS	3.25	82.6	9,252	7,710	6,908	6,384	5,983	5,674	5,428	15,617	614	525	476	443	417	397	381	21,463
H4in25			3.06 2.67	77.8 67.9	10,363 13,272	8,636 11,060	7,737 9,910	7,150 9,158	6,701 8,583	6,356 8,140	6,079 7,786	15,047 14,486	688 882	588 753	533 683	496 636	468 599	445 570	426 546	20,680 19,910
H8in56	6in	80-80S-120 ⁽⁵⁾ 160-XXS ⁽⁵⁾	5.75	146.1	7,517	6,264	5,612	5,186	4,861	4,610	4,410	64,808	499	426	387	360	339	323	309	89,071
H8in52 H8in46		160-XXS (-)	5.31 5.31	135.0 135.0	8,753 10,848	7,294 9,040	6,536 8,100	6,040 7,485	5,660 7,015	5,369 6,654	5,135 6,364	59,914 57,532	581 721	497 616	451 558	419 519	395 490	376 466	360 446	82,345 79,070
H8in82	8 in	Std-40-40S	8.25	209.6	1,804	1,552	1,401	1,287	1,197	1,131	1,089	25,068	121	106	97	89	84	79	76	34,454
H8in76 H8in72		XS-80-80S 120-140	7.75 7.25	196.9 184.2	2,872 4,234	2,470 3,642	2,231 3,289	2,049 3,021	1,905 2,809	1,800 2,654	1,733 2,555	32,592 44,537	192 283	168 248	154 227	142 210	133 196	126 186	121 179	44,793 61,210
H8in67		XXS-160	6.88	174.6	5,047	4,205	3,768	3,482	3,263	3,095	2,961	50,521	335	286	260	242	228	217	208	69,435
H8in64 H8in62			6.50 6.07	165.1 154.1	5,610 6,397	4,675 5,330	4,189 4,776	3,871 4,414	3,628 4,136	3,441 3,923	3,291 3,753	57,051 62,879	373 425	318 363	289 329	269 306	253 289	241 275	231 263	78,410 86,420
H10in102	10 in	Std-40-40S	10.25	260.4	1,708	1,469	1,326	1,218	1,133	1,070	1,030	43,648	114	100	91	85	79	75	72	59,989
H10in97 H10in94		XS-60-80-80S 120-100	9.88 9.50	250.8 241.3	2,330 3,054	2,004 2,626	1,810 2,372	1,662 2,178	1,546 2,026	1,460 1,914	1,406 1,842	55,536 67,185	156 204	137 179	125 164	115 151	108 142	102 134	98 129	76,327 92,338
H10in87		XXS-140	8.88	225.4	4,407	3,672	3,290	3,041	2,850	2,703	2,585	84,967	293	250	227	211	199	189	181	116,777
H10in84 H10in82		160	8.50 8.25	215.9 209.6	4,786 5,066	3,988 4,222	3,573 3,783	3,302 3,496	3,095 3,276	2,935 3,107	2,808 2,972	94,973 99,612	318 336	272 287	246 261	229 243	216 229	205 217	197 208	130,528 136,905
H10in76			7.75	196.9	5,707	4,755	4,261	3,938	3,690	3,500	3,348	112,325	379	324	294	273	257	245	235	154,378
H12in120 H12in116	12 in	Std-40-40S XS-80-80S	12.00 11.75	304.8 298.5	2,181 2,551	1,875 2,194	1,694 1,981	1,556 1,820	1,447 1,692	1,367 1,598	1,316 1,539	90,926 101,522	146 170	128 149	117 137	108 126	101 118	96 112	92 108	124,967 139,530
H12in112		100	11.25	285.8	3,425	2,904	2,602	2,405	2,254	2,137	2,045	125,095	228	198	179	167	157	150	143	171,929
H12in106 H12in102		XXS-120-140 N.a.	10.75 10.25	273.1 260.4	3,805 4,171	3,171 3,475	2,841 3,114	2,625 2,878	2,461 2,697	2,334 2,558	2,232 2,447	143,240 161,751	253 277	216 237	196 215	182 200	172 188	163 179	157 172	196,867 222,308
H12in97			9.88	250.8	4,481	3,734	3,345	3,092	2,897	2,748	2,629	176,436	298	254	231	215	202	192	184	242,491
H14in134 H14in130	14 in	40 XS	13.50 13.00	342.9 330.2	2,834 3,220	2,437 2,683	2,201 2,404	2,021 2,221	1,880 2,082	1,776 1,975	1,710 1,889	209,433 203,346	189 214	166 183	152 166	140 154	131 145	124 138	120 132	287,841 279,475
H14in124		80-100	12.50	317.5	3,441	2,867	2,569	2,374	2,225	2,110	2,018	233,196	229	195	177	165	155	148	142	320,501
H14in120 H14in116		120 140	12.00 11.75	304.8 298.5	3,760 3,900	3,133 3,250	2,807 2,912	2,594 2,691	2,431 2,522	2,306 2,392	2,206 2,288	250,197 247,008	250 259	213 221	194 201	180 187	170 176	161 167	155 160	343,866 339,484
H14in112		160	11.25	285.8	4,260	3,550	3,180	2,939	2,755	2,613	2,499	253,406	283	242	219	204	192	183	175	348,277
H14in106 H16in152	16 in	XS-40-60	10.75 15.25	273.1 387.4	4,650 3,572	3,875 3,072	3,472 2,774	3,209 2,548	3,007 2,370	2,852 2,239	2,728 2,155	234,449 318,016	309 239	264 209	239 191	223 177	210 166	200 157	191 151	322,222 437,076
H16in144	10 111	80	14.50	368.3	4,338	3,615	3,239	2,993	2,805	2,661	2,545	373,874	288	246	223	208	196	186	178	513,846
H16in140 H16in137		100 120	14.00 13.88	355.6 352.4	4,645 4,726	3,870 3,938	3,468 3,529	3,205 3,261	3,003 3,056	2,849 2,899	2,725 2,773	408,343 417,570	308 314	264 268	239 243	222 226	210 213	199 203	191 194	561,219 573,900
H16in134		140	13.50	342.9	4,985	4,154	3,722	3,439	3,223	3,057	2,924	436,357	331	283	257	239	225	214	205	599,721
H16in130 H16in120		160	13.00 12.00	330.2 304.8	5,364 6,263	4,470 5,219	4,005 4,676	3,701 4,322	3,468 4,050	3,290 3,841	3,147 3,674	458,091 434,831	356 416	304 355	276 322	257 300	242 283	230 269	221 258	629,592 597,624
H16in112			11.25	285.8	7,096	5,913	5,298	4,896	4,588	4,352	4,163	439,952	471	403	365	340	320	305	292	604,661
H18in170 H18in160	18 in	40-60 80-100	17.00 16.00	431.8 406.4	2,387 2,930	2,053 2,442	1,854 2,188	1,703 2,022	1,583 1,895	1,496 1,797	1,440 1,719	282,528 372,853	160 195	140 166	128 151	118 140	111 132	105 126	101 121	388,302 512,442
H18in152		120-140	15.25	387.4	3,218	2,681	2,402	2,220	2,081	1,973	1,888	428,487	214	183	166	154	145	138	132	588,905
H18in144 H18in140		160	14.50 14.00	368.3 355.6	3,550 3,801	2,958 3,167	2,650 2,838	2,449 2,622	2,295 2,458	2,177 2,331	2,082 2,230	415,200 406,457	236 252	201 216	183 196	170 182	160 171	152 163	146 156	570,644 558,627
H20in192	20 in	40	19.25	489.0	2,617	2,251	2,033	1,867	1,736	1,640	1,579	456,593	175	153	140	130	121	115	110	627,533
H20in185 H20in180		60 80-100	18.63 18.00	473.1 457.2	3,260 4,035	2,804 3,462	2,532 3,102	2,325 2,866	2,162 2,677	2,043 2,529	1,967 2,434	527,712 596,577	218 270	191 236	175 214	161 199	151 187	143 177	138 170	725,278 819,924
H20in170		120-140	17.00	431.8	4,645	3,871	3,468	3,205	3,004	2,849	2,725	697,842	309	264	239	222	210	199	191	959,101
H20in160 H20in152		160	16.00 15.25	406.4 387.4	5,234 5,748	4,362 4,790	3,908 4,292	3,611 3,966	3,385 3,717	3,210 3,525	3,071 3,372	788,840 819,758	348 382	297 326	269 296	251 275	236 259	225 247	215 237	1,084,167 1,126,660
H22in210	22 in	40-60	21.00	533.4	1,638	1,409	1,272	1,168	1,086	1,026	988	364,148	109	96	88	81	76	72	69	500,478
H22in200 H22in192		80 100-120	20.00 19.25	508.0 489.0	2,504 3,049	2,154 2,541	1,945 2,277	1,786 2,104	1,661 1,972	1,569 1,870	1,511 1,789	495,429 588,335	167 203	147 173	134 157	124 146	116 138	110 131	106 125	680,908 808,596
H22in185		140	18.63	473.1	3,231	2,693	2,413	2,229	2,089	1,982	1,896	659,090	215	183	166	155	146	139	133	905,841
H22in180 H22in170		160	18.00 17.00	457.2 431.8	3,477 3,888	2,898 3,240	2,596 2,903	2,399 2,683	2,248 2,514	2,133 2,385	2,040 2,281	727,309 748,841	231 258	197 221	179 200	167 186	157 175	149 167	143 160	999,600 1,029,193
H22in160			16.00	406.4	4,381	3,651	3,271	3,023	2,833	2,687	2,570	722,048	291	249	226	210	198	188	180	992,369
H24in232 H24in225	24 in	40	23.25 22.63	590.6 574.7	2,255 2,424	1,925 2,020	1,724 1,810	1,594 1,672	1,493 1,567	1,413 1,486	1,355 1,422	693,704 797,118	150 161	131 138	119 125	111 116	104 109	99 104	95 100	953,414 1,095,545
H24in220		60-80	22.00	574.7 558.8	2,575	2,020	1,922	1,776	1,665	1,486	1,422	897,867	171	138 146	133	123	116	111	106	1,095,545
H24in210		100-120	21.00	533.4 508.0	2,821	2,350	2,106	1,946	1,824	1,730	1,655	951,213	187	160 176	145 160	135 149	127 140	121 133	116	1,307,330
H24in200 H24in192		140-160	20.00 19.25	508.0 489.0	3,106 3,348	2,588 2,790	2,319 2,499	2,143 2,310	2,009 2,165	1,905 2,053	1,822 1,964	914,928 893,490	206 222	176 190	160 172	149 160	140 151	133 144	128 138	1,257,461 1,227,996
H26in270	26 in		27.00	685.8	1,018	875	791	726	675	638	614	454,432	68	60	55 72	50	47	45 60	43	624,563
H26in264 H26in254		STD-XS	26.50 25.50	673.1 647.7	1,364 1,839	1,173 1,581	1,060 1,428	973 1,312	905 1,220	855 1,152	823 1,109	581,692 728,129	91 123	80 108	73 98	68 91	63 85	60 81	58 78	799,467 1,000,728
H26in244		19.1 mm	24.50	622.3	2,341	1,950	1,748	1,615	1,514	1,436	1,373	926,498	155	133	120	112	106	100	96	1,273,362
H26in240 H26in232		25.4 mm 34.9 mm	24.00 23.25	609.6 590.6	2,437 2,594	2,031 2,162	1,820 1,937	1,682 1,790	1,576 1,677	1,495 1,591	1,430 1,522	1,031,162 1,156,160	162 172	138 147	125 134	117 124	110 117	105 111	100 107	1,417,210 1,589,004
H26in225			22.63	574.7	2,722	2,268	2,032	1,878	1,760	1,670	1,597	1,142,917	181	154	140	130	123	117	112	1,570,804
																			D = - 1/1/DT	/PT2.2-1 Rev0

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Hub material - ANSI Material Group 2.8	a 22Cr 5Ni 3Mo steel	A182 F51, UNS S31803	
Clamp material :	Low alloy (AISI 4130/40)	Corrosion Allowance :	Zero

Techlok size	Nom. Pipe	Schedules		ore of ring			Pressi	ure Ratinຄ	g (psi)			Max Bending Capacity (6)			Pressu	re rating	(bar)			Max Bending Capacity (6)
	Size		ins	mm	0-100°F	200°F	300°F	400°F	500°F	600°F	700°F	(Ft-lbs)	0-50°C	100°C	150°C	200°C	250°C	300°C	350°C	(Nm)
1in11	1 in	Std-40-40S	1.13	28.6	11,415	10,151	9,431	8,992	8,711	8,412	7,991	525	768	694	650	622	604	586	562	722
1in11		XS-80-80S	1.13	28.6	11,415	10,151	9,431	8,992	8,711	8,412	7,991	525	768	694	650	622	604	586	562	722
1in8		XS-80-80S ⁽⁴⁾	1.00	25.4	15,180	14,039	13,043	12,436	12,047	11,634	11,051	666	1,029	960	899	861	835	810	777	916
1in7		160	0.91	23.0	18,603	17,351	16,120	15,370	14,890	14,379	13,659	734	1,264	1,186	1,111	1,064	1,033	1,001	961	1,008
1in5		XXS	0.63	15.9	32,841	29,203	27,132	25,869	25,060	24,201	22,989	889	2,209	1,996	1,871	1,791	1,738	1,685	1617	1,222
1in4	4.5%	C+1 40 40C	0.50	12.7	40,474	35,991	33,438	31,881	30,885	29,826	28,332	844	2,723	2,460	2,305	2,207	2,142	2,077	1993	1,160
1.5in14 1.5in13	1.5 in	Std-40-40S XS-80-80S	1.61 1.50	40.9 38.1	15,569	13,845	12,863 14.999	12,264 14.301	11,881	11,473	10,898 12.709	2,443 2,855	1,047	946 1,104	887 1.034	849 990	824 961	799 932	766 894	3,357
1.5in13		160	1.50	38.1	18,155 18,155	16,144 16.144	14,999	14,301	13,854 13,854	13,379 13.379	12,709	2,855	1,221 1,221	1,104	1.034	990	961	932	894 894	3,924 3,924
1.5in15		XXS	1.13	28.6	28,701	25,522	23,711	22,608	21,901	21,150	20,091	3,476	1,221	1,745	1,635	1,565	1,519	1,473	1413	4,778
2in20	2 in	Std-40-40S	2.06	52.4	13.289	11.955	11.107	10.590	10,259	9.907	9.411	3,576	896	817	766	733	711	690	662	4,778
2in20	-	XS-80-80S	2.06	52.4	13,289	11,955	11,107	10,590	10,259	9.907	9,411	3,576	896	817	766	733	711	690	662	4,915
2in16		160	1.87	47.4	16,652	15,740	14.623	13.942	13,507	13.044	12,390	4,189	1,134	1.076	1.008	965	937	908	871	5,757
2in14		XXS	1.61	40.9	22,024	20,907	19,424	18,520	17,941	17,326	16,458	5,009	1,502	1,429	1,339	1,282	1,244	1,206	1157	6,884
2in13			1.50	38.1	25,438	23,035	21,401	20,405	19,767	19,090	18,133	5,505	1,717	1,575	1,476	1,412	1,371	1,329	1275	7,566
3in27		Std-40-40S	3.06	77.8	9,408	8,366	7,773	7,411	7,179	6,933	6,586	7,516	633	572	536	513	498	483	463	10,330
3in27		XS-80-80S	3.06	77.8	9,408	8,366	7,773	7,411	7,179	6,933	6,586	7,519	633	572	536	513	498	483	463	10,334
3in25		160	2.67	67.9	15,047	14,757	13,710	13,072	12,664	12,230	11,617	10,181	1,033	1,009	945	905	878	852	817	13,993
3in23		XXS	2.38	60.3	18,993	18,890	17,550	16,733	16,210	15,654	14,870	11,739	1,308	1,291	1,210	1,158	1,124	1,090	1046	16,134
3in20			2.06	52.4	24,702	23,658	21,980	20,957	20,302	19,606	18,624	13,284	1,687	1,617	1,515	1,451	1,408	1,365	1310	18,257
4in40	4 in	Std-40-40S	4.06	103.2	6,129	5,450	5,063	4,827	4,677	4,516	4,290	10,990	412	373	349	334	324	314	302	15,104
4in40		XS-80-80S	4.06	103.2	6,129	5,450	5,063	4,827	4,677	4,516	4,290	10,990	412	373	349	334	324	314	302	15,104
4in34		160	3.69	93.7	10,860	9,657	8,972	8,554	8,287	8,003	7,602	15,225	730	660	619	592	575	557	535	20,925
4in31		XXS	3.25	82.6	14,972	14,972	14,609	13,929	13,494	13,031	12,378	19,419	1,032	1,029	1,007	964	936	907	871	26,689
4in27			3.06	77.8	16,770	16,770	16,548	15,777	15,284	14,760	14,021	20,931	1,156	1,154	1,141	1,092	1,060	1,028	986	28,768
4in25		C. I 40 405	2.67	67.9	21,479	21,479	20,877	19,905	19,283	18,622	17,689	23,984	1,481	1,476	1,439	1,378	1,337	1,297	1244	32,963
5in52	5 in	Std-40-40S	5.31	135.0	6,273	5,578	5,182	4,941	4,786	4,622	4,391	24,050	422	381	357	342	332	322	309	33,054
5in50		XS-80-80S	5.00	127.0	8,559	7,915	7,353 9.560	7,011	6,792	6,559	6,230	30,281	580	541	507	485	471	457	438	41,618
5in46		160 XXS	4.75 4.19	120.7 106.4	9,560 12.164	9,560 12.164	12.164	9,200 12.164	8,913 12.164	8,607 12.164	8,176 11.641	34,889	659 839	659 839	659 839	636 839	618 839	599 839	575 816	47,950
5in42 5in40		IXX2	4.19	106.4	12,164	12,164	12,164	12,164	12,164	12,164	12,332	44,528 45,656	888	888 888	888	888	888	888	865	61,198 62,749
5in34			3.69	93.7	15,905	15,905	15,905	15,905	15,905	15,905	15,221	47,542	1,097	1.097	1.097	1.097	1.097	1,097	1067	65,341
5in31			3.25	82.6	20,243	20,243	20,243	20,243	20,243	20,243	19,373	44,450	1,396	1.396	1.396	1.396	1.396	1,396	1358	61,091
6in62	6 in	Std-40-40S	6.07	154.1	7.152	6.359	5.908	5.633	5.457	5.270	5.006	44,518	481	435	407	390	378	367	352	61,184
6in56		XS-80-80S-120	5.75	146.1	9,280	9,280	8.889	8,475	8,210	7,929	7,531	56,044	640	637	613	587	569	552	530	77,025
6in54		120 (4)	5.50	139.7	10,110	10,110	10,110	10,110	10,110	9,767	9,278	61,031	697	697	697	697	697	680	652	83,880
6in52		160-XXS	5.31	135.0	10,806	10,806	10,806	10,806	10,806	10,806	10,341	65,295	745	745	745	745	745	745	725	89,740
6in46		XXS	4.75	120.7	13,392	13,392	13,392	13,392	13,392	13,392	12,816	77,205	923	923	923	923	923	923	899	106,109
6in42			4.19	106.4	17,039	17,039	17,039	17,039	17,039	17,039	16,306	83,841	1,175	1,175	1,175	1,175	1,175	1,175	1143	115,230
6in40			4.06	103.2	18,051	18,051	18,051	18,051	18,051	18,051	17,275	76,220	1,245	1,245	1,245	1,245	1,245	1,245	1211	104,755
8in82	8 in	Std-40-40S	8.25	209.6	5,008	4,453	4,138	3,945	3,822	3,691	3,506	73,893	337	304	285	273	265	257	247	101,556
8in76		XS-80-80S	7.75	196.9	7,551	6,715	6,238	5,948	5,762	5,564	5,286	97,675	508	459	430	412	400	387	372	134,243
8in76		100	7.75	196.9	7,551	6,715	6,238	5,948	5,762	5,564	5,286	97,675	508	459	430	412	400	387	372	134,243
8in72		120-140	7.25	184.2	8,998	8,998	8,867	8,454	8,190	7,909	7,513	119,091	620	619	611	585	568	551	528	163,677
8in67		XXS-160	6.88	174.6	9,949	9,949	9,949	9,949	9,949	9,949	9,521	132,276	686	686	686	686	686	686	668	181,798
8in62			6.07	154.1	12,610	12,610	12,610	12,610	12,610	12,610	12,068	159,339	869	869	869	869	869	869	846	218,992
8in56			5.75	146.1	14,739	14,739	14,739	14,739	14,739	14,739	14,105	161,017	1,016	1,016	1,016	1,016	1,016	1,016	989	221,299

Light Duty Series

Techlok size	Nom. Pipe	Schedules	Min b				Pressu	ure Rating	g (psi)			Max Bending Capacity (6)	6)							Max Bending Capacity (6)
	Size		ins	mm	0-100°F	200°F	300°F	400°F	500°F	600°F	700°F	(Ft-lbs)	0-50°C	100°C	150°C	200°C	250°C	300°C	350°C	(Nm)
L14in134	14in	40	13.50	342.9	3,798	3,377	3,138	2,992	2,898	2,799	2,659	233,439	255	231	216	207	201	195	187	320,834
L14in130		XS	13.00	330.2	5,065	4,630	4,301	4,101	3,973	3,837	3,644	292,483	343	316	297	284	275	267	256	401,983
L14in124		80-100	12.50	317.5	5,413	5,413	5,413	5,337	5,170	4,993	4,743	349,914	373	373	373	368	359	348	334	480,915
L14in120		120	12.00	304.8	5,915	5,915	5,915	5,915	5,915	5,915	5,661	409,680	408	408	408	408	408	408	397	563,057
L14in116		140	11.75	298.5	6,136	6,136	6,136	6,136	6,136	6,136	5,872	431,786	423	423	423	423	423	423	412	593,439
L14in112		160	11.25	285.8	6,701	6,701	6,701	6,701	6,701	6,701	6,413	490,745	462	462	462	462	462	462	450	674,471
L16in152	16in	XS-40-60	15.25	387.4	4,170	3,829	3,557	3,391	3,285	3,173	3,014	384,730	282	262	245	235	228	221	212	528,766
L16in144		80	14.50	368.3	4,600	4,600	4,600	4,600	4,600	4,600	4,402	499,695	317	317	317	317	317	317	309	686,772
L16in140		100	14.00	355.6	4,925	4,925	4,925	4,925	4,925	4,925	4,713	571,896	340	340	340	340	340	340	331	786,004
L16in137		120	13.88	352.4	5,012	5,012	5,012	5,012	5,012	5,012	4,797	590,866	346	346	346	346	346	346	336	812,076
L16in134		140	13.50	342.9	5,286	5,286	5,286	5,286	5,286	5,286	5,059	609,915	364	364	364	364	364	364	355	838,256
L16in130		160	13.00	330.2	5,687	5,687	5,687	5,687	5,687	5,687	5,443	595,662	392	392	392	392	392	392	382	818,667
L18in170	18in	40-60	17.00	431.8	3,427	3,427	3,427	3,427	3,427	3,427	3,280	578,164	236	236	236	236	236	236	230	794,618
L18in160		80-100	16.00	406.4	3,861	3,861	3,861	3,861	3,861	3,861	3,695	727,634	266	266	266	266	266	266	259	1,000,047
L18in152		120-140	15.25	387.4	4,240	4,240	4,240	4,240	4,240	4,240	4,058	705,379	292	292	292	292	292	292	285	969,460
L18in144		160	14.50	368.3	4,678	4,678	4,678	4,678	4,678	4,678	4,477	683,473	323	323	323	323	323	323	314	939,353
L20in192	20in	40	19.25	489.0	3,631	3,631	3,631	3,631	3,577	3,455	3,281	871,224	250	250	250	250	247	241	231	1,197,394
L20in185		60	18.63	473.1	3,849	3,849	3,849	3,849	3,771	3,642	3,459	1,008,228	265	265	265	265	261	254	243	1,385,689
L20in180		80-100	18.00	457.2	4,141	4,141	4,141	4,141	4,037	3,898	3,703	1,024,675	286	286	286	286	280	271	260	1,408,294
L20in170		120-140	17.00	431.8	4,631	4,631	4,631	4,621	4,477	4,324	4,107	987,513	319	319	319	319	310	301	289	1,357,219
L20in160		160	16.00	406.4	5,218	5,218	5,218	5,171	5,010	4,838	4,596	951,031	360	360	360	357	347	337	323	1,307,080
L24in225	24in	40	22.63	574.7	3,325	3,325	3,325	3,325	3,325	3,325	3,182	1,645,246	229	229	229	229	229	229	223	2,261,196
L24in220		60-80	22.00	558.8	3,532	3,532	3,532	3,532	3,532	3,532	3,380	1,682,985	244	244	244	244	244	244	237	2,313,063
L24in210		100-120	21.00	533.4	3,870	3,870	3,870	3,870	3,870	3,870	3,704	1,632,372	267	267	267	267	267	267	260	2,243,502
L24in200		140-160	20.00	508.0	4,262	4,262	4,262	4,262	4,262	4,262	4,079	1,570,195	294	294	294	294	294	294	286	2,158,047

NOTES:

- 1) Pressure ratings based upon requirements of ASME VIII Div 2 Part 5 2) Max hydrotest = 1.5 x rated pressure. 3) Pressure ratings shown are based upon the hub bore being equal to the sealring bore.

- 4) Optional sealring sizes for pipe schedules shown.
 5) Optional pipe selection for high pressure applications.
 6) See page 9 for bending moment calculation method
 7) Pressure ratings do not reflect the pressure capacity of the adjoining pipe.



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Hub material - ANSI Material Group 2.8	a 22Cr 5Ni 3Mo steel	A182 F51, UNS S31803	
Clamp material :	Low alloy (AISI 4130/40)	Corrosion Allowance :	Zero

Techlok	Nom.	Schedules	Min b				Pressu	ure Rating	g (psi)			Max Bending Capacity (6)			Pressu	ıre rating	g (bar)			Max Bending
size	Pipe Size		ins	ring	0-100°F	200°F	300°F	400°F	500°F	600°F	700°F	(Ft-lbs)	0-50°C	100°C	150°C	200°C	250°C	300°C	350°C	(Nm)
H2in20	2 in	Std-40-40S	2.06	52.4	24,041	21,378	19,862	18,937	18,345	17,716	16,829	11,600	1,617	1,461	1,369	1,311	1,272	1,234	1184	15,943
H2in20		XS-80-80S	2.06	52.4	24,041	21,378	19,862	18,937	18,345	17,716	16,829	11,600	1,617	1,461	1,369	1,311	1,272	1,234	1184	15,943
H2in16		160	1.87	47.4	27,789	24,711	22,958	21,890	21,205	20,479	19,453	12,130	1,869	1,689	1,583	1,515	1,471	1,426	1368	16,671
H2in14 H2in13		XXS	1.61 1.50	40.9 38.1	33,167 35,483	29,494 31,552	27,401 29,314	26,126 27,950	25,309 27,076	24,442 26,148	23,217 24,838	13,203 13,883	2,231	2,016 2,157	1,889 2,021	1,808 1,935	1,755 1,878	1,702 1,821	1633 1747	18,145 19,080
H3in27	3 in	Std-40-40S	3.06	77.8	15,848	14,092	13,093	12,483	12,093	11,679	11,093	14,683	1,066	963	903	864	839	813	780	20,179
H3in27		XS-80-80S	3.06	77.8	15,848	14,092	13,093	12,483	12,093	11,679	11,093	14,683	1,066	963	903	864	839	813	780	20,179
H3in25 H3in23		160 XXS	2.67	67.9	21,241	18,888	17,549	16,732	16,209	15,653	14,869	17,598	1,429	1,291	1,210	1,158	1,124	1,090	1046	24,186
H3in20		1	2.38	60.3 52.4	25,737 30,877	22,886 27,457	21,263 25,509	20,273 24,322	19,640 23,562	18,966 22,754	18,016 21,614	19,164 20,826	1,731 2,077	1,565 1,877	1,466 1,759	1,403 1,683	1,362 1,634	1,321 1,584	1267 1520	26,338 28,623
H4in40	4 in	Std-40-40S	4.06	103.2	11,778	11,778	11,385	10,855	10,515	10,155	9,646	26,566	812	809	785	751	729	707	678	36,512
H4in40		XS-80-80S	4.06	103.2	11,778	11,778	11,385	10,855	10,515	10,155	9,646	26,566	812	809	785	751	729	707	678	36,512
H4in34 H4in31		160 XXS	3.69 3.25	93.7 82.6	14,538 18,503	14,538 18,503	14,538 18,503	14,351 18,229	13,902 17,659	13,426 17,054	12,753 16,199	31,254 35,594	1,002	1,002 1,276	1,002 1,276	990 1,258	964 1,225	935 1,187	897 1139	42,955 48,919
H4in27		700	3.06	77.8	20,725	20,725	20,725	20,004	19,379	18,714	17,777	37,084	1,429	1,429	1,429	1,383	1,344	1,303	1250	50,967
H4in25		(5)	2.67	67.9	26,544	26,544	25,105	23,936	23,188	22,394	21,272	36,216	1,830	1,818	1,731	1,657	1,608	1,559	1496	49,775
H8in56 H8in52	6in	80-80S-120 ⁽⁵⁾ 160-XXS ⁽⁵⁾	5.75 5.31	146.1 135.0	15,033 17,506	15,033 17,506	15,033 17,506	15,033 17,506	15,033 17,506	15,033 17,353	14,346 16,483	148,348 149,785	1,036	1,036 1,207	1,036 1,207	1,036 1,207	1,036 1,207	1,036 1,199	1007 1159	203,886 205,862
H8in46		100 ///3 · ·	5.31	135.0	21,696	21,696	21,696	21,696	21,169	20,443	19,419	143,829	1,496	1,496	1,496	1,496	1,466	1,424	1366	197,676
H8in82	8 in	Std-40-40S	8.25	209.6	3,909	3,476	3,230	3,079	2,983	2,881	2,737	54,315	263	238	223	213	207	201	192	74,650
H8in76		XS-80-80S	7.75	196.9	6,223	5,534	5,141	4,902	4,749	4,586	4,356	70,615	419	378	354	339	329	319	306	97,052
H8in72 H8in67		120-140 XXS-160	7.25 6.88	184.2 174.6	9,128 10,093	8,158 10,093	7,579 9,830	7,227 9,372	7,001 9,079	6,761 8,768	6,422 8,329	96,496 109.463	615 696	558 694	523 678	500 649	485 630	471 611	452 586	132,623 150.443
H8in64			6.50	165.1	11,220	11,220	11,220	11,220	11,220	11,171	10,611	123,610	774	774	774	774	774	771	746	169,887
H8in62			6.07	154.1	12,793	12,793	12,793	12,793	12,793	12,793	12,243	136,239	882	882	882	882	882	882	859	187,244
H10in102 H10in97	10 in	Std-40-40S XS-60-80-80S	10.25 9.88	260.4 250.8	3,700 5,048	3,291 4,489	3,057 4,171	2,915 3,977	2,824 3,852	2,727 3,720	2,590 3,534	94,571 120,328	249 340	225 307	211 288	202 275	196 267	190 259	182 249	129,977 165,376
H10in94		120-100	9.50	241.3	6,616	5,883	5,466	5,212	5,049	4,876	4,631	145,568	445	402	377	361	350	339	326	200,065
H10in87		XXS-140	8.88	225.4	8,813	8,706	8,088	7,712	7,471	7,215	6,853	184,095	606	595	558	534	518	502	482	253,017
H10in84		160	8.50	215.9	9,571	9,571	9,571	9,525	9,227	8,911	8,464	205,774	660	660	660	657	640	620	595	282,812
H10in82 H10in76			8.25 7.75	209.6 196.9	10,132 11,413	10,132 11,413	10,132 11,413	10,132 11,413	10,132 11,413	10,132 11,413	9,674 10,922	215,826 243,371	699 787	699 787	699 787	699 787	699 787	699 787	679 766	296,628 334,485
H12in120	12 in	Std-40-40S	12.00	304.8	4,725	4,202	3,904	3,722	3,605	3,482	3,307	197,006	318	287	269	258	250	242	233	270,762
H12in116		XS-80-80S	11.75	298.5	5,527	4,914	4,566	4,353	4,217	4,073	3,869	219,964	372	336	315	301	292	284	272	302,314
H12in112 H12in106		100 XXS-120-140	11.25 10.75	285.8 273.1	6,970 7,610	6,599 7,610	6,131 7,610	5,845 7,567	5,663 7,330	5,469 7,079	5,195 6,724	271,040 310,354	475 525	451 525	423 525	405 522	393 508	381 493	365 473	372,512 426,544
H12in100		N.a.	10.75	260.4	8,341	8,341	8,341	8,341	8,341	8,341	7,982	350,461	575	575	575	575	575	575	560	481,667
H12in97			9.88	250.8	8,961	8,961	8,961	8,961	8,961	8,961	8,576	382,279	618	618	618	618	618	618	601	525,397
H14in134 H14in130	14 in	40 XS	13.50	342.9	5,984	5,459 6,439	5,072 6,439	4,836	4,685 5,958	4,524 5,754	4,298 5,465	453,771 440,584	405	373 444	350 444	335 426	325 413	315	302 384	623,655
H14in124		80-100	13.00 12.50	330.2 317.5	6,439 6,881	6,881	6,881	6,150 6,881	6,881	6,881	6,585	505,259	444 474	474	474	474	474	401 474	462	605,530 694,418
H14in120		120	12.00	304.8	7,520	7,520	7,520	7,520	7,520	7,520	7,197	558,276	518	518	518	518	518	518	505	767,285
H14in116		140	11.75	298.5	7,800	7,800	7,800	7,800	7,800	7,800	7,465	583,771	538	538	538	538	538	538	523	802,324
H14in112 H14in106		160	11.25 10.75	285.8 273.1	8,519 9,300	8,519 9,300	8,519 9,300	8,519 9,300	8,519 9,300	8,519 9,300	8,153 8,900	633,515 586,122	587 641	587 641	587 641	587 641	587 641	587 641	572 624	870,691 805,555
H16in152	16 in	XS-40-60	15.25	387.4	7,740	6,882	6,394	6,097	5,906	5,704	5,418	689,035	521	470	441	422	410	397	381	946,997
H16in144		80	14.50	368.3	8,676	8,676	8,477	8,082	7,830	7,561	7,183	810,061	598	597	584	559	543	527	505	1,113,333
H16in140 H16in137		100 120	14.00 13.88	355.6 352.4	9,289 9,452	9,289 9,452	9,289 9,452	9,289 9,452	9,289 9,452	8,988 9,371	8,538 8,902	884,744 904,735	640 652	640 652	640 652	640 652	640 652	626 648	600 626	1,215,975 1,243,451
H16in134		140	13.50	342.9	9,969	9,969	9,969	9,969	9,969	9,969	9,540	945,440	687	687	687	687	687	687	669	1,299,395
H16in130		160	13.00	330.2	10,727	10,727	10,727	10,727	10,727	10,727	10,266	1,009,490	740	740	740	740	740	740	720	1,387,424
H16in120 H16in112			12.00 11.25	304.8 285.8	12,526 14,191	12,526 14,191	12,526 14,191	12,526 14,191	12,526 14,191	12,526 14,191	11,988 13,581	1,087,078 1,099,879	864 978	864 978	864 978	864 978	864 978	864 978	841 952	1,494,060 1,511,653
H18in170	18 in	40-60	17.00	431.8	5,172	4,599	4,273	4,074	3,947	3,812	3,621	612,145	348	314	295	282	274	265	255	841,321
H18in160		80-100	16.00	406.4	5,860	5,860	5,860	5,860	5,860	5,785	5,495	807,848	404	404	404	404	404	400	386	1,110,291
H18in152		120-140	15.25	387.4	6,435	6,435	6,435	6,435	6,435	6,435	6,158	940,620	444 489	444	444	444	444	444	432	1,292,771
H18in144 H18in140		160	14.50 14.00	368.3 355.6	7,099 7,601	7,099 7,601	7,099 7,601	7,099 7,601	7,099 7,601	7,099 7,601	6,794 7,274	1,038,001 1,016,143	524	489 524	489 524	489 524	489 524	489 524	476 510	1,426,609 1,396,568
H20in192	20 in	40	19.25	489.0	5,671	5,042	4,685	4,467	4,327	4,179	3,969	989,285	381	345	323	309	300	291	279	1,359,655
H20in185		60	18.63	473.1	7,063	6,281	5,835	5,564	5,390	5,205	4,944	1,143,376	475	429	402	385 477	374	362	348	1,571,435
H20in180 H20in170		80-100 120-140	18.00 17.00	457.2 431.8	8,308 9,290	7,774 9,290	7,223 9,290	6,886 9,270	6,671 8,980	6,443 8,672	6,120 8,238	1,292,583 1,511,990	565 641	531 641	498 641	477 639	463 623	449 604	430 579	1,776,502 2,078,051
H20in160		160	16.00	406.4	10,468	10,468	10,468	10,468	10,468	10,468	10,018	1,709,154	722	722	722	722	722	722	702	2,349,029
H20in152			15.25	387.4	11,496	11,496	11,496	11,496	11,496	11,496	11,002	1,840,301	793	793	793	793	793	793	771	2,529,276
H22in210 H22in200	22 in	40-60 80	21.00 20.00	533.4 508.0	3,549 5,426	3,156 4,825	2,932 4,483	2,795 4,274	2,708 4,140	2,615 3,999	2,484 3,798	788,988 1,073,429	239 365	216 330	202 309	193 296	188 287	182 278	175 267	1,084,370 1,475,301
H22in192		100-120	19.25	489.0	6,098	6,098	5,844	5,572	5,398	5,213	4,952	1,073,429	420	418	403	386	374	363	348	1,751,958
H22in185		140	18.63	473.1	6,462	6,462	6,462	6,462	6,462	6,310	5,994	1,428,029	446	446	446	446	446	438	422	1,962,656
H22in180		160	18.00	457.2	6,954	6,954	6,954	6,954	6,954	6,954	6,655	1,575,836	479	479 536	479	479	479 526	479	467	2,165,800
H22in170 H22in160			17.00 16.00	431.8 406.4	7,776 8,762	7,776 8,762	7,776 8,762	7,776 8,762	7,776 8,762	7,776 8,762	7,442 8,385	1,793,799 1,805,120	536 604	536 604	536 604	536 604	536 604	536 604	522 588	2,465,364 2,480,924
H24in232	24 in		23.25	590.6	4,619	4,345	4,037	3,849	3,728	3,601	3,420	1,503,025	314	297	278	266	259	251	241	2,065,730
H24in225		40	22.63	574.7	4,847	4,847	4,847	4,707	4,560	4,403	4,183	1,727,090	334	334	334	325	316	307	294	2,373,681
H24in220 H24in210		60-80 100-120	22.00 21.00	558.8 533.4	5,149 5,641	5,149 5,641	5,149 5,641	5,149 5,641	5,149 5,641	5,149 5,641	4,928 5,398	1,945,379 2,271,690	355 389	355 389	355 389	355 389	355 389	355 389	346 379	2,673,693 3,122,169
H24in200		140-160	20.00	508.0	6,212	6,212	6,212	6,212	6,212	6,212	5,945	2,271,030	428	428	428	428	428	428	417	3,143,652
H24in192			19.25	489.0	6,695	6,695	6,695	6,695	6,695	6,695	6,407	2,233,724	462	462	462	462	462	462	449	3,069,989
H26in270 H26in264	26 in		27.00 26.50	685.8 673.1	2,205	1,961 2,629	1,822	1,737	1,683 2,256	1,625 2,178	1,544 2,069	984,603 1 260 333	148 199	134 180	126 168	120 161	117 156	113 152	109 146	1,353,219 1,732,178
H26in264 H26in254		STD-XS	25.50	673.1 647.7	2,956 3,984	3,542	2,442 3,291	2,328 3,138	3,040	2,178	2,069	1,260,333 1,577,614	268	180 242	168 227	217	211	204	146	2,168,243
H26in244		19.1 mm	24.50	622.3	4,681	4,681	4,613	4,398	4,261	4,115	3,909	2,007,413	323	322	318	304	295	287	275	2,758,951
H26in240		25.4 mm	24.00	609.6	4,874	4,874	4,874	4,874	4,874	4,772	4,533	2,234,184	336	336	336	336	336	331	319	3,070,621
H26in232 H26in225		34.9 mm	23.25 22.63	590.6 574.7	5,188 5,444	5,188 5,444	5,188 5,444	5,188 5,444	5,188 5,444	5,188 5,444	4,965 5,210	2,505,013 2,734,150	358 375	358 375	358 375	358 375	358 375	358 375	348 365	3,442,843 3,757,765
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Doc VI/PT/PT2.8a Rev0



Hub material - ANSI Material Group 2.8	b 25Cr 7Ni 4Mo steel	A182 F55/F53, UNS S32760/	'S32750
Clamp material :	Low alloy (AISI 4130/40)	Corrosion Allowance :	Zero

Techlok size	Nom. Pipe	Schedules		ore of Iring			Pressi	ure Rating	g (psi)			Max Bending Capacity ⁽⁶⁾			Pressu	re rating	(bar)			Max Bending Capacity (6)
	Size		ins	mm	0-100°F	200°F	300°F	400°F	500°F	600°F	700°F	(Ft-lbs)	0-50°C	100°C	150°C	200°C	250°C	300°C	350°C	(Nm)
1in11	1 in	Std-40-40S	1.13	28.6	12,499	12,381	11,363	10,660	10,239	10,046	n.a.	646	860	845	783	739	711	696	n.a.	888
1in11		XS-80-80S	1.13	28.6	12,499	12,381	11,363	10,660	10,239	10,046	n.a.	646	860	845	783	739	711	696	n.a.	888
1in8		XS-80-80S ⁽⁴⁾	1.00	25.4	15,180	15,180	15,180	14,743	14,160	13,893	n.a.	820	1,047	1,047	1,047	1,019	984	963	n.a.	1,127
1in7		160	0.91	23.0	18,603	18,603	18,603	18,222	17,501	17,171	n.a.	903	1,283	1,283	1,283	1,258	1,216	1,190	n.a.	1,241
1in5		XXS	0.63	15.9	36,431	35,620	32,689	30,668	29,456	28,900	n.a.	889	2,499	2,432	2,254	2,126	2,046	2,003	n.a.	1,222
1in4			0.50	12.7	49,814	43,899	40,287	37,796	36,302	35,617	n.a.	844	3,345	2,997	2,778	2,620	2,521	2,469	n.a.	1,160
1.5in14	1.5 in	Std-40-40S	1.61	40.9	17,849	16,887	15,497	14,539	13,964	13,701	n.a.	3,006	1,216	1,153	1,068	1,008	970	950	n.a.	4,132
1.5in13		XS-80-80S	1.50	38.1	20,616	19,692	18,072	16,954	16,284	15,977	n.a.	3,514	1,407	1,344	1,246	1,175	1,131	1,107	n.a.	4,829
1.5in13		160	1.50	38.1	20,616	19,692	18,072	16,954	16,284	15,977	n.a.	3,514	1,407	1,344	1,246	1,175	1,131	1,107	n.a.	4,829
1.5in11		XXS	1.13	28.6	35,089	31,130	28,569	26,802	25,743	25,257	n.a.	3,938	2,359	2,125	1,970	1,858	1,788	1,751	n.a.	5,412
2in20	2 in	Std-40-40S	2.06	52.4	13,289	13,289	13,289	12,555	12,059	11,831	n.a.	4,402	916	916	916	870	838	820	n.a.	6,049
2in20		XS-80-80S	2.06	52.4	13,289	13,289	13,289	12,555	12,059	11,831	n.a.	4,402	916	916	916	870	838	820	n.a.	6,049
2in16		160	1.87	47.4	16,652	16,652	16,652	16,529	15,876	15,576	n.a.	5,155	1,148	1,148	1,148	1,140	1,103	1,080	n.a.	7,085
2in14 2in13		XXS	1.61 1.50	40.9 38.1	22,024 25.438	22,024 25.438	22,024 25.438	21,956 24.191	21,088 23,234	20,690 22,796	n.a.	6,165 6.285	1,518 1.754	1,518 1.754	1,518 1.754	1,514 1.675	1,465 1.614	1,434 1.580	n.a.	8,473 8,638
3in27		Std-40-40S	3.06	77.8	11,579	10.204	9.365	8,786	8,438	8,279	n.a. n.a.	9,251	777	697	646	609	586	574	n.a. n.a.	12,714
3in27		XS-80-80S	3.06	77.8	11,579	10,204	9,365	8,786	8,438	8,279	n.a.	9,251	777	697	646	609	586	574 574	n.a.	12,714
3in27		160	2.67	67.9	15.047	15.047	15.047	15.047	14.885	14.604	n.a.	12,531	1,037	1.037	1.037	1.037	1.028	1.012	n.a.	17,222
3in23		XXS	2.38	60.3	18,993	18.993	18,993	18,993	18.993	18.694	n.a.	14.448	1.310	1.310	1.310	1.310	1.310	1,012	n.a.	19,857
3in20		70.5	2.06	52.4	24,702	24,702	24.702	24,702	23,863	23.413	n.a.	16,022	1,703	1.703	1.703	1.703	1,656	1.623	n.a.	22,020
4in40	4 in	Std-40-40S	4.06	103.2	7,543	6.647	6.100	5,723	5,497	5.393	n.a.	13,526	506	454	421	397	382	374	n.a.	18,590
4in40		XS-80-80S	4.06	103.2	7,543	6,647	6,100	5,723	5,497	5.393	n.a.	13,526	506	454	421	397	382	374	n.a.	18,590
4in34		160	3.69	93.7	11,764	11,764	10,810	10,141	9,740	9,557	n.a.	18,738	811	803	745	703	677	662	n.a.	25,754
4in31		XXS	3.25	82.6	14.972	14.972	14.972	14.972	14.972	14.972	n.a.	23,900	1.032	1,032	1.032	1.032	1.032	1.032	n.a.	32,848
4in27			3.06	77.8	16.770	16.770	16.770	16,770	16.770	16.770	n.a.	25,762	1.156	1.156	1.156	1.156	1.156	1.156	n.a.	35,406
4in25			2.67	67.9	21,479	21,479	21,479	21,479	21,479	21,479	n.a.	28,021	1,481	1,481	1,481	1,481	1,481	1,481	n.a.	38,512
5in52	5 in	Std-40-40S	5.31	135.0	7,714	6,803	6,244	5,858	5,626	5,520	n.a.	29,600	518	464	430	406	391	383	n.a.	40,682
5in50		XS-80-80S	5.00	127.0	8,559	8,559	8,559	8,312	7,983	7,832	n.a.	37,269	590	590	590	574	554	543	n.a.	51,222
5in46		160	4.75	120.7	9,560	9,560	9,560	9,560	9,560	9,560	n.a.	42,940	659	659	659	659	659	659	n.a.	59,016
5in42		XXS	4.19	106.4	12,164	12,164	12,164	12,164	12,164	12,164	n.a.	54,803	839	839	839	839	839	839	n.a.	75,320
5in40			4.06	103.2	12,886	12,886	12,886	12,886	12,886	12,886	n.a.	50,730	888	888	888	888	888	888	n.a.	69,722
5in34			3.69	93.7	15,905	15,905	15,905	15,905	15,905	15,905	n.a.	47,542	1,097	1,097	1,097	1,097	1,097	1,097	n.a.	65,341
5in31			3.25	82.6	20,243	20,243	20,243	20,243	20,243	20,243	n.a.	44,450	1,396	1,396	1,396	1,396	1,396	1,396	n.a.	61,091
6in62	6 in	Std-40-40S	6.07	154.1	7,896	7,757	7,119	6,679	6,414	6,293	n.a.	54,791	542	530	491	463	446	436	n.a.	75,303
6in56		XS-80-80S-120	5.75	146.1	9,280	9,280	9,280	9,280	9,280	9,280	n.a.	68,977	640	640	640	640	640	640	n.a.	94,801
6in54		120 (4)	5.50	139.7	10,110	10,110	10,110	10,110	10,110	10,110	n.a.	75,115	697	697	697	697	697	697	n.a.	103,237
6in52		160-XXS	5.31	135.0	10,806	10,806	10,806	10,806	10,806	10,806	n.a.	80,363	745	745	745	745	745	745	n.a.	110,450
6in46		XXS	4.75	120.7	13,392	13,392	13,392	13,392	13,392	13,392	n.a.	82,179	923	923	923	923	923	923	n.a.	112,945
6in42			4.19	106.4	17,039	17,039	17,039	17,039	17,039	17,039	n.a.	83,841	1,175	1,175	1,175	1,175	1,175	1,175	n.a.	115,230
6in40			4.06	103.2	18,051	18,051	18,051	18,051	18,051	18,051	n.a.	76,220	1,245	1,245	1,245	1,245	1,245	1,245	n.a.	104,755
8in82	8 in	Std-40-40S	8.25	209.6	6,164	5,432	4,985	4,677	4,492	4,407	n.a.	90,945	414	371	344	324	312	305	n.a.	124,993
8in76		XS-80-80S	7.75	196.9	7,928	7,928	7,516	7,051	6,773	6,645	n.a.	120,215	547	543	518	489	470	461	n.a.	165,222
8in76		100	7.75	196.9	7,928	7,928	7,516	7,051	6,773	6,645	n.a.	120,215	547	543	518	489	470	461	n.a.	165,222
8in72		120-140	7.25	184.2	8,998	8,998	8,998	8,998	8,998	8,998	n.a.	146,574	620	620	620	620	620	620	n.a.	201,448
8in67		XXS-160	6.88	174.6	9,949	9,949	9,949	9,949	9,949	9,949	n.a.	162,802	686	686	686	686	686	686	n.a.	223,751
8in62			6.07	154.1	12,610	12,610	12,610	12,610	12,610	12,610	n.a.	166,281	869	869	869	869	869	869	n.a.	228,534
8in56			5.75	146.1	14,739	14,739	14,739	14,739	14,739	14,739	n.a.	161,017	1,016	1,016	1,016	1,016	1,016	1,016	n.a.	221,299

Light Duty Series

Techlok size	Nom. Pipe Size	Schedules	Min b				Pressu	ure Rating	g (psi)			Max Bending Capacity (6)			(6) C							
	Size		ins	mm	0-100°F	200°F	300°F	400°F	500°F	600°F	700°F	(Ft-lbs)	0-50°C	100°C	150°C	200°C	250°C	300°C	350°C	(Nm)		
L14in134	14in	40	13.50	342.9	4,674	4,119	3,780	3,547	3,406	3,342	n.a.	287,309	314	281	261	246	237	232	n.a.	394,872		
L14in130		XS	13.00	330.2	5,065	5,065	5,065	4,862	4,670	4,582	n.a.	359,978	349	349	349	336	324	318	n.a.	494,748		
L14in124		80-100	12.50	317.5	5,413	5,413	5,413	5,413	5,413	5,413	n.a.	430,663	373	373	373	373	373	373	n.a.	591,895		
L14in120		120	12.00	304.8	5,915	5,915	5,915	5,915	5,915	5,915	n.a.	484,303	408	408	408	408	408	408	n.a.	665,617		
L14in116		140	11.75	298.5	6,136	6,136	6,136	6,136	6,136	6,136	n.a.	477,905	423	423	423	423	423	423	n.a.	656,824		
L14in112		160	11.25	285.8	6,701	6,701	6,701	6,701	6,701	6,701	n.a.	490,745	462	462	462	462	462	462	n.a.	674,471		
L16in152	16in	XS-40-60	15.25	387.4	4,170	4,170	4,170	4,021	3,862	3,789	n.a.	473,514	288	288	288	278	268	263	n.a.	650,789		
L16in144		80	14.50	368.3	4,600	4,600	4,600	4,600	4,600	4,600	n.a.	615,009	317	317	317	317	317	317	n.a.	845,257		
L16in140		100	14.00	355.6	4,925	4,925	4,925	4,925	4,925	4,925	n.a.	638,928	340	340	340	340	340	340	n.a.	878,131		
L16in137		120	13.88	352.4	5,012	5,012	5,012	5,012	5,012	5,012	n.a.	638,928	346	346	346	346	346	346	n.a.	878,131		
L16in134		140	13.50	342.9	5,286	5,286	5,286	5,286	5,286	5,286	n.a.	609,915	364	364	364	364	364	364	n.a.	838,256		
L16in130		160	13.00	330.2	5,687	5,687	5,687	5,687	5,687	5,687	n.a.	595,662	392	392	392	392	392	392	n.a.	818,667		
L18in170	18in	40-60	17.00	431.8	3,427	3,427	3,427	3,427	3,427	3,427	n.a.	711,586	236	236	236	236	236	236	n.a.	977,991		
L18in160		80-100	16.00	406.4	3,861	3,861	3,861	3,861	3,861	3,861	n.a.	727,634	266	266	266	266	266	266	n.a.	1,000,047		
L18in152		120-140	15.25	387.4	4,240	4,240	4,240	4,240	4,240	4,240	n.a.	705,379	292	292	292	292	292	292	n.a.	969,460		
L18in144		160	14.50	368.3	4,678	4,678	4,678	4,678	4,678	4,678	n.a.	683,473	323	323	323	323	323	323	n.a.	939,353		
L20in192	20in	40	19.25	489.0	3,631	3,631	3,631	3,631	3,631	3,631	n.a.	1,072,275	250	250	250	250	250	250	n.a.	1,473,715		
L20in185		60	18.63	473.1	3,849	3,849	3,849	3,849	3,849	3,849	n.a.	1,125,521	265	265	265	265	265	265	n.a.	1,546,895		
L20in180		80-100	18.00	457.2	4,141	4,141	4,141	4,141	4,141	4,141	n.a.	1,095,238	286	286	286	286	286	286	n.a.	1,505,275		
L20in170		120-140	17.00	431.8	4,631	4,631	4,631	4,631	4,631	4,631	n.a.	1,055,517	319	319	319	319	319	319	n.a.	1,450,683		
L20in160		160	16.00	406.4	5,218	5,218	5,218	5,218	5,218	5,218	n.a.	1,016,523	360	360	360	360	360	360	n.a.	1,397,090		
L24in225	24in	40	22.63	574.7	3,325	3,325	3,325	3,325	3,325	3,325	n.a.	1,721,470	229	229	229	229	229	229	n.a.	2,365,957		
L24in220		60-80	22.00	558.8	3,532	3,532	3,532	3,532	3,532	3,532	n.a.	1,682,985	244	244	244	244	244	244	n.a.	2,313,063		
L24in210		100-120	21.00	533.4	3,870	3,870	3,870	3,870	3,870	3,870	n.a.	1,632,372	267	267	267	267	267	267	n.a.	2,243,502		
L24in200		140-160	20.00	508.0	4,262	4,262	4,262	4,262	4,262	4,262	n.a.	1,570,195	294	294	294	294	294	294	n.a.	2,158,047		

NOTES:

- 1) Pressure ratings based upon requirements of ASME VIII Div 2 Part 5 2) Max hydrotest = 1.5 x rated pressure. 3) Pressure ratings shown are based upon the hub bore being equal to the sealring bore.

- 4) Optional sealring sizes for pipe schedules shown.
 5) Optional pipe selection for high pressure applications.
 6) See page 9 for bending moment calculation method
 7) Pressure ratings do not reflect the pressure capacity of the adjoining pipe.



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Hub material - ANSI Material Group 2.8	b 25Cr 7Ni 4Mo steel	A182 F55/F53, UNS S32760	/S32750
Clamp material :	Low alloy (AISI 4130/40)	Corrosion Allowance :	Zero

Part	Techlok	Nom.	Schedules	Min b				Pressu	ure Rating	g (psi)			Max Bending Capacity (6)			Pressu	re rating	(bar)			Max Bending
	size					0-100°E	200°F	300°E	400°E	500°E	600°F	700°F		0-50°C	100°C	150°C	200°C	250°C	300°C	350°C	
	H2in20	2 in	Std-40-40S										` '								, ,
Secolar Seco	1		XS-80-80S	2.06		29,589	26,075	23,930	,	21,563	21,156		14,277			1,650	1,556	1,498		n.a.	
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	1	6in	80-80S-120 (5)											· '							
			160-XXS ⁽⁵⁾						,	17,506		n.a.		1 '	,		1,207			n.a.	
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H100984 H20098																					
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H21-H102 M2-H102 M3- M	1	12 111	1											l							
H211110 H21110 H211110 H21110 H211110 H211110 H211110 H211110 H211110 H211110 H21	1											n.a.	,	ı						n.a.	
H214H1914 H214H1914 H214H1915 H214H1915 H214H1915 H214H1915 H214H1915 H214H1915 H214H1915 H214H1915 H214H1916 H214	1													1							
H4HH141 H4HH161 H4HH161 H5 M5 M5 M5 M5 M5 M5 M5			IN.a.				,		,					1							
H4HH121	H14in134	14 in		13.50	342.9	5,984	5,984	5,984		5,507	5,403	n.a.		413	413	413	397	382	375	n.a.	
H4Hin15 H4Hin16									,												
H4Hn12																					
H4Hinfin52 H4H				11.75					,			n.a.		ı						n.a.	
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Heinital	l			14.50	368.3		,					n.a.	996,998	598		598	598	598	598	n.a.	
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H18in144														ı							
H38in140														1							
H2Din192 Z0 in 40			100											ı							
H20in100	ı	20 in	1					5,644			4,990			i							1,673,422
H20in170			1											1							
H20in160	1													1							
H22in210			160											1							
H22in120		22 in	40-60																		
H22in192		22 111												ı							
H22in180	H22in192			19.25					6,098			n.a.		420	420	420	420	420	420	n.a.	2,156,257
H22in170														1							
H22in160 H22in160 H22in160 H22in160 H22in160 H24in232 Z4 in H24in232 H24			100																		
H24in225 40 22.63 574.7 4,847	H22in160			16.00	406.4	8,762	8,762	8,762	8,762	8,762	8,762		1,805,120	ı	604	604	604	604	604		2,480,924
H24in220 H24in210 100-120 21.00 53.4 5.44 5.44 5.44 5.641 5.		24 in	40											ı							
H24in210	1													1							
H24in200	1													l .							
H26in270 H26in264 Control of the	1		140-160										2,287,321	1							
H26in264 STD-XS 26.50 673.1 3,638 3,206 2,942 2,760 2,651 2,601 n.a. 1,551,178 244 219 203 191 184 180 n.a. 2,131,911 126in254 STD-XS 25.50 647.7 4,326 4,321 3,695 3,720 3,573 3,506 n.a. 1,941,678 298 295 273 258 248 243 n.a. 2,668,607 19.1 mm 24.50 62.3 4,681 4		26 in																			
H26in254 STD-XS 25.50 647.7 4,326 4,321 3,965 3,720 3,573 3,506 n.a. 1,941,678 298 295 273 258 248 243 n.a. 2,668,607 19.1 mm 24.50 62.3 4,681		20 111																			
H26in240 25.4 mm 24.00 609.6 4,874 4,874 4,874 4,874 4,874 4,874 4,874 n.a. 2,749,765 336 336 336 336 336 336 336 n.a. 3,779,226 H26in232 34.9 mm 23.25 590.6 5,188 5,188 5,188 5,188 5,188 5,188 n.a. 2,909,188 358 358 358 358 358 358 358 n.a. 3,998,334	H26in254			25.50	647.7	4,326	4,321	3,965	3,720	3,573	3,506	n.a.	1,941,678	298		273		248	243	n.a.	2,668,607
H26in232 34.9 mm 23.25 590.6 5,188 5,188 5,188 5,188 5,188 5,188 n.a. 2,909,188 358 358 358 358 358 358 n.a. 3,998,334														1							
														ı							

Doc VI/PT/PT2.8b Rev0



Hub material - ANSI Material Group 3.8		Alloy 625 (110/50 Ksi)	
Clamp material :	Low alloy (AISI 4130/40)	Corrosion Allowance :	Zero

Techlok size	Nom. Pipe	Schedules		ore of Iring			Pressu	ure Rating	g (psi)			Max Bending Capacity (6)			Pressu	ire rating	(bar)			Max Bending Capacity (6)
	Size		ins	mm	0-100°F	200°F	300°F	400°F	500°F	600°F	700°F	(Ft-lbs)	0-50°C	100°C	150°C	200°C	250°C	300°C	350°C	(Nm)
1in11	1 in	Std-40-40S	1.13	28.6	8,781	8,465	8,219	7,973	7,745	7,534	7,359	404	601	582	567	551	537	524	512	555
1in11		XS-80-80S	1.13	28.6	8,781	8,465	8,219	7,973	7,745	7,534	7,359	404	601	582	567	551	537	524	512	555
1in8		XS-80-80S ⁽⁴⁾	1.00	25.4	12,144	11,707	11,367	11,027	10,711	10,420	10,177	513	831	804	784	762	742	724	708	704
1in7		160	0.91	23.0	15,010	14,469	14,049	13,629	13,239	12,878	12,578	564	1,027	994	969	942	918	895	875	776
1in5		XXS	0.63	15.9	25,262	24,353	23,645	22,938	22,281	21,675	21,170	713	1,728	1,673	1,630	1,585	1,544	1,506	1473	981
1in4			0.50	12.7	31,134	30,013	29,141	28,269	27,460	26,713	26,090	766	2,130	2,062	2,009	1,954	1,903	1,856	1815	1,053
1.5in14	1.5 in	Std-40-40S	1.61	40.9	11,976	11,545	11,210	10,875	10,563	10,276	10,036	1,879	819	793	773	752	732	714	698	2,582
1.5in13		XS-80-80S	1.50	38.1	13,966	13,463	13,072	12,681	12,318	11,983	11,703	2,196	955	925	901	876	854	833	814	3,018
1.5in13		160	1.50	38.1	13,966	13,463	13,072	12,681	12,318	11,983	11,703	2,196	955	925	901	876	854	833	814	3,018
1.5in11		XXS	1.13	28.6	22,078	21,283	20,665	20,047	19,473	18,943	18,501	2,674	1,510	1,462	1,425	1,386	1,350	1,316	1287	3,675
2in20	2 in	Std-40-40S	2.06	52.4	10,342	9,970	9,680	9,390	9,121	8,873	8,666	2,751	707	685	667	649	632	617	603	3,781
2in20		XS-80-80S	2.06	52.4	10,342	9,970	9,680	9,390	9,121	8,873	8,666	2,751	707	685 902	667	649	632	617	603	3,781
2in16		160 XXS	1.87 1.61	47.4 40.9	13,616 18.086	13,126 17.435	12,744 16.928	12,363 16.422	12,009 15.952	11,682 15.518	11,410 15.156	3,222	931 1.237	902 1,198	879 1.167	854 1.135	832 1.106	812 1.078	794 1054	4,428 5,295
2in14 2in13		lvv2	1.50	40.9 38.1	19,086	19,209	18,651	18.093	. ,	.,.	16,698	3,853	/ /		,	,	,	1,078		
3in27		Std-40-40S	3.06	77.8	7,237	6,976	6,774	6,571	17,575 6,383	17,097 6,209	6,065	4,235 5,782	1,363 495	1,320 479	1,286 467	1,251 454	1,218 442	431	1162 422	5,820 7,946
3in27		XS-80-80S	3.06	77.8	7,237	6,976	6,774	6,571	6,383	6,209	6,065	5,782	495	479	467	454	442	431	422	7,940
3in25		160	2.67	67.9	12,766	12.306	11,949	11.591	11,259	10.953	10.698	7,832	873	846	824	801	780	761	744	10,764
3in23		XXS	2.38	60.3	16.341	15.752	15.295	14.837	14.413	14.020	13.694	9.030	1.118	1.082	1.055	1.026	999	974	953	12,410
3in20		\^\3	2.06	52.4	20,466	19,729	19,156	18,583	18,051	17,560	17.150	10,218	1,400	1.356	1.321	1.284	1.251	1.220	1193	14,044
4in40	4 in	Std-40-40S	4.06	103.2	4,714	4,545	4.413	4,281	4,158	4,045	3,951	8,454	322	312	304	296	288	281	275	11,619
4in40		XS-80-80S	4.06	103.2	4,714	4,545	4,413	4,281	4,158	4,045	3,951	8,454	322	312	304	296	288	281	275	11,619
4in34		160	3.69	93.7	8,354	8,053	7,819	7,585	7,368	7,167	7,000	11,712	571	553	539	524	511	498	487	16,096
4in31		XXS	3.25	82.6	13.603	13.113	12.732	12.351	11.997	11.671	11.399	14.938	930	901	878	854	832	811	793	20,530
4in27		70.0	3.06	77.8	15,407	14.853	14,421	13.990	13.589	13.220	12.911	16,101	1,054	1.020	994	967	942	919	898	22,129
4in25			2.67	67.9	19,438	18,739	18.194	17,650	17,145	16,678	16.289	18,449	1,330	1,287	1.254	1.220	1.188	1.159	1133	25,356
5in52	5 in	Std-40-40S	5.31	135.0	4,825	4,651	4,516	4,381	4,256	4,140	4,043	18,500	330	320	311	303	295	288	281	25,426
5in50		XS-80-80S	5.00	127.0	6,847	6,600	6,408	6,217	6,039	5,874	5,737	23,293	468	453	442	430	419	408	399	32,014
5in46		160	4.75	120.7	8,985	8,661	8,410	8,158	7,924	7.709	7,529	26,838	615	595	580	564	549	536	524	36,885
5in42		XXS	4.19	106.4	12.164	12.164	12.164	12.164	11,839	11.517	11.248	34,252	839	839	839	839	820	800	783	47,075
5in40			4.06	103.2	12,886	12,886	12,886	12,886	12,886	12,696	12,332	35,120	888	888	888	888	888	879	860	48,269
5in34			3.69	93.7	15,905	15,905	15,905	15,905	15,605	15,181	14,827	38,638	1,097	1,097	1,097	1,097	1,080	1,055	1032	53,104
5in31			3.25	82.6	20,243	20,243	19,974	19,376	18,822	18,309	17,883	41,920	1,396	1,393	1,377	1,339	1,305	1,272	1244	57,614
6in62	6 in	Std-40-40S	6.07	154.1	5,501	5,303	5,149	4,995	4,852	4,720	4,610	34,244	376	364	355	345	336	328	321	47,065
6in56		XS-80-80S-120	5.75	146.1	8,276	7,978	7,747	7,515	7,300	7,101	6,936	43,111	566	548	534	519	506	493	483	59,250
6in54		120 (4)	5.50	139.7	10,110	9,828	9,543	9,257	8,992	8,748	8,544	46,947	693	675	658	640	623	608	594	64,523
6in52		160-XXS	5.31	135.0	10,806	10,806	10,806	10,746	10,438	10,154	9,917	50,227	745	745	745	741	723	706	690	69,031
6in46		XXS	4.75	120.7	13,392	13,392	13,392	13,392	13,392	13,202	12,816	59,388	923	923	923	923	923	914	894	81,622
6in42			4.19	106.4	17,039	17,039	17,039	16,969	16,483	16,035	15,661	68,107	1,175	1,175	1,175	1,170	1,142	1,114	1090	93,605
6in40			4.06	103.2	18,051	18,051	18,051	18,051	17,635	17,155	16,755	68,234	1,245	1,245	1,245	1,245	1,221	1,192	1166	93,779
8in82	8 in	Std-40-40S	8.25	209.6	3,852	3,714	3,606	3,498	3,398	3,305	3,228	56,840	264	255	249	242	236	230	225	78,120
8in76		XS-80-80S	7.75	196.9	5,808	5,599	5,437	5,274	5,123	4,984	4,867	75,135	397	385	375	365	355	346	339	103,264
8in76		100	7.75	196.9	5,808	5,599	5,437	5,274	5,123	4,984	4,867	75,135	397	385	375	365	355	346	339	103,264
8in72		120-140	7.25	184.2	8,256	7,959	7,728	7,497	7,282	7,084	6,919	91,609	565	547	533	518	505	492	481	125,905
8in67		XXS-160	6.88	174.6	9,949	9,949	9,821	9,528	9,255	9,003	8,793	101,751	686	685	677	659	641	626	612	139,845
8in62			6.07	154.1	12,610	12,610	12,610	12,610	12,610	12,448	12,068	122,568	869	869	869	869	869	861	842	168,456
8in56			5.75	146.1	14,739	14,739	14,739	14,739	14,739	14,739	14,105	132,519	1,016	1,016	1,016	1,016	1,016	1,016	989	182,132

Light Duty Series

Techlok size	Nom. Pipe Size	Schedules	Min b				Pressu	ure Rating	g (psi)			Max Bending Capacity (6)	6)							
	Size		ins	mm	0-100°F	200°F	300°F	400°F	500°F	600°F	700°F	(Ft-lbs)	0-50°C	100°C	150°C	200°C	250°C	300°C	350°C	(Nm)
L14in134	14in	40	13.50	342.9	2,921	2,816	2,734	2,653	2,577	2,507	2,448	179,568	200	193	189	183	179	174	170	246,795
L14in130		XS	13.00	330.2	4,005	3,861	3,749	3,636	3,532	3,436	3,356	224,987	274	265	258	251	245	239	233	309,217
L14in124		80-100	12.50	317.5	5,212	5,024	4,878	4,732	4,597	4,472	4,368	269,164	357	345	336	327	319	311	304	369,935
L14in120		120	12.00	304.8	5,915	5,915	5,915	5,915	5,915	5,849	5,661	315,138	408	408	408	408	408	405	395	433,120
L14in116		140	11.75	298.5	6,136	6,136	6,136	6,136	6,136	6,062	5,872	332,143	423	423	423	423	423	419	410	456,492
L14in112		160	11.25	285.8	6,701	6,701	6,701	6,701	6,701	6,625	6,413	380,366	462	462	462	462	462	458	448	522,768
L16in152	16in	XS-40-60	15.25	387.4	3,312	3,193	3,100	3,007	2,921	2,842	2,775	295,946	227	219	214	208	202	197	193	406,743
L16in144		80	14.50	368.3	4,600	4,600	4,550	4,414	4,287	4,171	4,073	384,381	317	317	314	305	297	290	283	528,286
L16in140		100	14.00	355.6	4,925	4,925	4,915	4,768	4,632	4,506	4,401	439,920	340	339	339	330	321	313	306	604,618
L16in137		120	13.88	352.4	5,012	5,012	4,998	4,848	4,709	4,581	4,474	454,513	346	345	345	335	326	318	311	624,674
L16in134		140	13.50	342.9	5,286	5,286	5,255	5,098	4,952	4,817	4,705	472,090	364	364	362	352	343	335	327	648,832
L16in130		160	13.00	330.2	5,687	5,687	5,631	5,462	5,306	5,161	5,041	461,115	392	392	388	378	368	359	351	633,748
L18in170	18in	40-60	17.00	431.8	3,427	3,427	3,381	3,280	3,186	3,099	3,027	444,741	236	236	233	227	221	215	211	611,244
L18in160		80-100	16.00	406.4	3,861	3,861	3,861	3,861	3,861	3,861	3,695	602,767	266	266	266	266	266	266	259	828,432
L18in152		120-140	15.25	387.4	4,240	4,240	4,240	4,240	4,240	4,240	4,058	623,980	292	292	292	292	292	292	285	857,586
L18in144		160	14.50	368.3	4,678	4,678	4,678	4,678	4,678	4,678	4,477	604,601	323	323	323	323	323	323	314	830,952
L20in192	20in	40	19.25	489.0	3,606	3,476	3,375	3,274	3,180	3,094	3,022	670,172	247	239	233	226	220	215	210	921,072
L20in185		60	18.63	473.1	3,801	3,664	3,558	3,452	3,353	3,261	3,185	775,560	260	252	245	239	232	227	222	1,065,915
L20in180		80-100	18.00	457.2	4,069	3,923	3,809	3,695	3,589	3,491	3,410	788,212	278	270	263	255	249	243	237	1,083,303
L20in170		120-140	17.00	431.8	4,513	4,351	4,224	4,098	3,981	3,872	3,782	759,625	309	299	291	283	276	269	263	1,044,015
L20in160		160	16.00	406.4	5,050	4,868	4,727	4,585	4,454	4,333	4,232	731,563	345	334	326	317	309	301	294	1,005,446
L24in225	24in	40	22.63	574.7	3,325	3,325	3,325	3,325	3,325	3,325	3,182	1,265,574	229	229	229	229	229	229	223	1,739,382
L24in220		60-80	22.00	558.8	3,532	3,532	3,532	3,532	3,532	3,532	3,380	1,439,736	244	244	244	244	244	244	237	1,978,746
L24in210		100-120	21.00	533.4	3,870	3,870	3,870	3,870	3,870	3,870	3,704	1,492,463	267	267	267	267	267	267	260	2,051,214
L24in200		140-160	20.00	508.0	4,262	4,262	4,262	4,262	4,262	4,262	4,079	1,435,615	294	294	294	294	294	294	286	1,973,083

NOTES:

- 1) Pressure ratings based upon requirements of ASME VIII Div 2 Part 5 2) Max hydrotest = 1.5 x rated pressure. 3) Pressure ratings shown are based upon the hub bore being equal to the sealring bore.

- 4) Optional sealring sizes for pipe schedules shown.
 5) Optional pipe selection for high pressure applications.
 6) See page 9 for bending moment calculation method
 7) Pressure ratings do not reflect the pressure capacity of the adjoining pipe.





Hub material - ANSI Material Group 3.8 Alloy 625 (110/50 Ksi)

Clamp material: Low alloy (AISI 4130/40) Corrosion Allowance: Zero

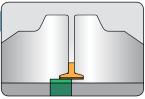
	Techlok size	Nom. Pipe	Pipe		ore of ring	Pressure Rating (psi)							Max Bending Capacity (6)	Pressure rating (bar)					Max Bending Capacity (6)		
1909 1909		Size		ins	mm	0-100°F	200°F	300°F	400°F	500°F	600°F	700°F		0-50°C	100°C	150°C	200°C	250°C	300°C	350°C	(Nm)
March Marc		2 in	1					,				,	,	1 '	,	,					12,264
			1											1 1		,		,			12,264 12,824
1992 2 1992 2 2 2 2 2 2 2 2 2			1					,	,			,		1 '	,	,	,	,	,		13,958
1992 1992 1992 1992 1992 1992 1993 1994 1993 1994													,								14,677
Hellong 160		3 in							,												15,523 15,523
						, .			,												18,604
Halmang Am 94 94 94 95 95 95 95 95	H3in23		XXS	2.38	60.3	19,798		18,531	17,976	17,462	16,987	16,591		1,354	1,311	1,278	1,242	1,210	1,180	1154	20,260
Helmort 1965		4:00	C+4 40 40C					,										,			22,018
Hellord 1905 1909		4 111	1					,				,		1							28,086 28,086
Heart Hear								,	,												33,042
HAMPS AND SAME AND SA			XXS					,	,					1 '	,	,	,	,	,		37,630
Hishing 10				l .				,				,		1 '	,		,	,	,		39,206 42,626
Helmorg Belles Sid-4-465 S. 20		6in	80-80S-120 (5)																		156,835
Heller H			160-XXS (5)											1 '					,		166,364
Hishing 1969		0:	C+4 40 40C														,	,			180,314
Hishor 18 18 19 19 19 19 19 19		8 111	1	l .				,				,		1							57,423 74,655
Hishing			120-140		184.2			,						1							102,017
Hishing Hish			XXS-160					,				,		1							115,726
Hishming 101 Mish-9-060 1075 2604 2866 7.744 2066 2.755 2.711 7.442 2.785 7.7747 195 195 184 179 174 170 166 110								,													130,683 144,034
H100F8		10 in	Std-40-40S																		99,982
HIDMINGS 160								,													127,212
Hibmiss 160 8.50 225.9 3,311 8,966 8,706 8,466 8,706 9,816 7,705 19,871 18,728 6,66 6,67 6,50 6,50 6,			1					,						1							153,896
Highing			1						,				,								194,628 217,547
Highlight 12-hr 12					209.6			,						1							228,175
H121ml12		40.	51.1.40.405				,	,	,			,									257,296
H12h112h12 100		12 in												1							208,278 232,549
Hizhing Hizh																					286,548
H24m134			1				7,123	6,916	6,710	6,517	6,340	6,192	238,734	1							328,111
Hahmia Mahmia M			N.a.																		370,513
Halfin120		14 in	40																		404,151 479,734
Highling 120																					465,792
Halfini16			1																		534,168
H4Hni12																					590,219 617,173
H-H6in124 H-H6in124 H-H6in124 H-H6in124 H-H6in124 H-H6in124 H-H6in124 H-H6in124 H-H6in124 H-H6in127 H-H6in128 H-H6in			1					,						1							683,985
Helfinitid Hel							,	,	,												716,509
Hideintado 100		16 in							,					1							728,459 856,410
Halfinidad Hal																					935,366
H16in120								,	,				695,950					598			956,501
H16in112			1	ı			. ,	,			- , -	. ,									999,535
Helfini12			160	ı																	1,067,250 1,194,412
H38in150 H38in160 B0-100 16.00 4064 5.860 5.821 5.652 5.483 5.326 5.181 5.060 6.21421 403 400 390 379 369 369 352 8.888 8.888 8.889 48	H16in112			11.25	285.8	14,191		14,191	14,191	14,191	14,091	13,581	945,955	1					973	950	1,300,103
H18in152 120-140 15.25 387.4 6.435 6		18 in												1							647,170
H18in144 160 1450 368.3 7.099														1							854,070 994,439
H20in192 Q 0 in																					1,122,683
H20in185																					1,201,408
H20in180		20 in		i		1								1							1,045,888 1,208,796
H20in160 H20in152 H20in160 H20				l .										1							1,366,540
H22in120	H20in170		120-140	17.00	431.8	9,053	8,727	8,473	8,220	7,984	7,767	7,586	1,163,069	1		584	568	553	540	528	1,598,501
H22in210			160	ı										1							1,806,946
H22in192 B0		22 in	40-60																		1,945,597 834,131
H22in185 140 18.63 473.1 6,462 6,350 6,165 5,981 5,810 5,652 5,520 1,098,484 444 436 425 413 403 393 384 1,5 H22in180 160 18.00 457.2 6,954	H22in200		80	20.00	508.0	4,174	4,024	3,907	3,790	3,681	3,581	3,498	825,714	285	276	269	262	255	249	243	1,134,847
H22in180 H22in170 H22in170 H22in170 H22in160 H22in170 H22in160 H22in170														1							1,347,660
H22in170 H22in160 H22in160 H24in232																					1,509,736 1,666,000
H22in160 H22in160 H24in232 24 in																					1,896,434
H24in225						8,762		8,762	8,762	8,762	8,762	8,385									1,932,075
H24in220		24 in	40	ı																	1,589,023 1,825,908
H24in210																					2,056,687
H24in192 19.25 489.0 6,695 6,407 1,889,728 16	H24in210		100-120	21.00	533.4	5,641	5,641	5,641	5,641	5,641	5,641	5,398	1,747,454	389	389	389	389	389	389	379	2,401,668
H26in270			140-160																		2,659,526
H26in264 26.50 673.1 2,274 2,192 2,128 2,065 2,006 1,951 1,905 969,487 156 151 147 143 139 136 133 1,2 1,2 1,2 1,2 1,2 1,2 1,2 1,2 1,2 1,2		26 in																			2,597,207 1,040,938
H26in254 STD-XS 25.50 647.7 3,064 2,954 2,868 2,782 2,703 2,629 2,568 1,213,549 210 203 198 192 187 183 179 1,6 H26in244 19.1 mm 24.50 622.3 4,295 4,141 4,020 3,900 3,788 3,685 3,599 1,544,163 294 284 277 270 263 256 250 2,1 H26in240 25.4 mm 24.00 609.6 4,874 4,802 4,662 4,523 4,393 4,274 4,174 1,718,603 335 330 321 313 305 297 290 2,33 H26in232 34.9 mm 23.25 590.6 5,188 5,188 5,188 5,188 5,188 5,188 1,926,933 358<		20111												1							1,332,444
H26in240	H26in254		1	25.50	647.7	3,064	2,954	2,868	2,782	2,703	2,629	2,568	1,213,549	210	203	198	192	187	183	179	1,667,879
H26in232 34.9 mm 23.25 590.6 5,188 5,188 5,188 5,188 5,188 5,188 4,965 1,926,933 358 358 358 358 358 358 348 2,6														1							2,122,270
														1							2,362,016 2,648,341
2.2 200 215 216 216 216 216 216 216 216 216 216 בדדונ דדדונ	H26in225			22.63	574.7	5,444	5,444	5,444	5,444	5,444	5,444	5,210	2,103,192	375	375	375	375	375	375	365	2,890,589



HUBS

Shrouded connectors

can be used for severe thermal shock and /or severe erosion. A separate set of shrouds are inserted into the hubs to effectively isolate the sealring from the flow media.



Shroud design will ensure a completely smooth bore through the connector, and shroud materials are selected that are compatible with the piping. Alternatively, shrouds can be machined integrally with the hubs.

Adapter spool

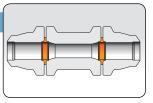
are available to connect different connector types and sizes. For example: Techlok-Techlok, Techlok - ANSI, Techlok-API. Transition spools can be supplied in



various lengths to suit client in-situ applications. Hydrostatic pressure testing of spools can be undertaken upon request.

Spade/Spacer

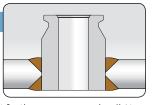
components are available for all hub/clamp sizes. For smaller sizes spade/spacers can be fabricated into "spectacle blinds", however, for most applications the spade



and spacer remain as separate components. The length of the Spade/ Spacer will be slightly greater than the width (dimension J-Page 4) to allow two clamps positioned side by side.

Nozzles

Techlok Nozzles are available for use with pressure vessel construction to provide a convenient system for connecting pipework. The nozzle is used for "set through"



construction providing reinforcement for the pressure vessel wall. Nozzles are manufactured from forged steel and are available in all sizes and materials to suit client needs.

CLAMPS

are available as an option to fit all hub sizes. The design allows for a reduced diameter envelope and also specialised materials, due to fully machined construction.



Used in conjunction with "Pulling blinds" and also electrically insulated connectors.

Powerlok clamps

are normally based upon the standard Techlok range of hub dimensions. The conventional 4-bolt Techlok clamp is replaced with a quick release clamp system.



A powerful leadscrew system is used to enegise the clamp segments around the hubs, resulting in rapid make / break times with no loose parts to lift. Powerloks are normally a 3-piece construction with a single leadscrew, however twin leadscrews are available for heavy duty applications. Typical application: pig launchers.

Weld-o-Hubs

The Techlok Weld-o-hub allows branch connectors to be made with a single weld. This weld prep is provided contoured to match the main pipe run and provides full



reinforcement to the branch penetration. Available in standard sizes up to 6" NPS (Branch) in all materials to suit piping.

Sweep-o-Hubs

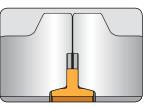
The Techlok Sweep-o-hub is a variation of the Weld-o-hub providing full penetration weld profile allowing for full NDE (radiography). Available up to 4" NPS (Branch)



although larger sizes available on request. Sweep-o-hubs can be optimised to client needs to minimise weld requirements.

Recessed hubs

are available as an option for heavy duty applications. Recessed hubs have the advantage of preventing hub distortion due to bolt "over tightening", provide higher bend-



ing moment capacity, and reduce moisture ingress between hub faces. However, greater hub separation is needed to remove and replace sealrings.

Thermowells

The Techlok Thermowell allows for fluid flow temperature measurement for high pressure systems. Normally used in conjunction with Weld-o-hubs, Sweep-o-hubs or in-



line Tees, Techlok Thermowells are machined from a single forging for high integrity service applications. Full in-house supporting calculations are available to suit clients flow application.

Special clamps

Having pioneered new manufacturing methods, Vector is now able to manufacture in-house a whole range of new and bespoke clamp connectors. Ranging from very small clamps



for high pressure hydraulic applications, to large one-off designs for specific client applications, such as: Pressure Vessel (U-stamp compliant clamps), API equivalent clamp range, Structural clamps (up to 2 meters diameter). All designs benefit fro our extensive in-house expertise and analysis techniques.

3-piece clamps

3-piece clamps (6-bolt) have evolved on large high pressure applications. This design offers a number of advantages for large diameter clamps which have



allowed for more competitive designs. The usual manufacturing method is from forged rings with compact bolting interface. In addition, these clamps can be supported integrally with the hubs so that - once assembled - no further lifting is required for disassembly and reassembly.



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