

# VECTOR TECHLOK® CLAMP CONNECTOR

TECHNICAL BROCHURE





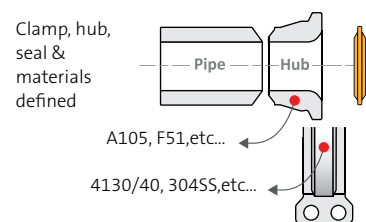
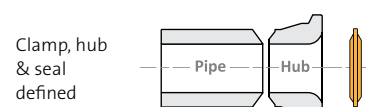
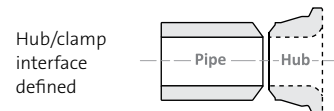
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## 1 Selection procedure

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.

	EXAMPLE 1	EXAMPLE 2
<b>1</b>	Determine nominal pipe size, schedule (or pipe OD / ID), Pipe material and operating pressure / temperature. 6" NB Sch XXS, A333Gr1 @ 5500 psi 300°F	Determine nominal pipe size, schedule (or pipe OD / ID), Pipe material and operating pressure / temperature. 16" NB x 32mm WT, UNS 31803 @ 320 Bar 100°C
<b>2</b>	Select suitable hub/clamp size - normally this would match the nominal pipe size (ref. page 4, 6 and 7). 6in ..... 6" SchXXS	Select suitable hub/clamp size - normally this would match the nominal pipe size (ref. page 4, 6 and 7). L16in ..... 16" x 32mm
<b>3</b>	Select suitable sealing to match the pipe bore - normally this would be the smallest sealing without restricting the pipe bore (ref. page 5) - see also note 5. Select size 52 to suit bore of 4.897" 6in52 6" XXS	Select suitable sealing to match the pipe bore - normally this would be the smallest sealing without restricting the pipe bore (ref. page 5) - see also note 5. Select size 134 to suit bore of 342.4 mm L16in134 16" x 32mm
<b>4</b>	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 hub material grade compatible with pipe material - (ref. selection guide on page 9) Select A182 F51 L16in134 16" x 32mm F51
<b>5</b>	Preliminary sizing complete - check pressure capacity (ref. appropriate pressure temperature tables) 6in52 A105 (ref. page 10) Pmax @ 300°F is 7148 psi (ACCEPTABLE)	Preliminary sizing complete - check pressure capacity (ref. appropriate pressure temperature tables) L16in134 F51 (ref. page 24) Pmax @ 100°C is 364 Bar (ACCEPTABLE but close to limit so bending capacity will be low)
<b>6</b>	Check bending capacity using procedure (ref. page 9)	Check bending capacity using procedure (ref. page 9)
<b>7</b>	If acceptable - sizing complete. Final connector size : 6in52 6" XXS A105	If acceptable - sizing complete. Final connector size : L16in134 16" x 32mm F51
<b>8</b>	If pressure / bending is not acceptable then consider resizing connector using a smaller sealing, or larger clamp (or both). Alternatively contact Vector for more detailed calculation. See notes 4 and 5 Alternative sizes 6in52 6" XXS A350LF2 (Mod) 6in46 6" XXS A105	If pressure / bending is not acceptable then consider resizing connector using a smaller sealing, or larger clamp (or both). Alternatively contact Vector for more detailed calculation. See notes 4 and 5 Alternative sizes L16in130 16" x 32mm F51 H16in134 16" x 32mm F51
	Pmax @ 300°F 10324 psi (page 12) 9283 psi (page 10)	Pmax @ 100°C 392 Bar (page 24) 687 Bar (page 25)



### 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.
- 4) 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 sealing 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.

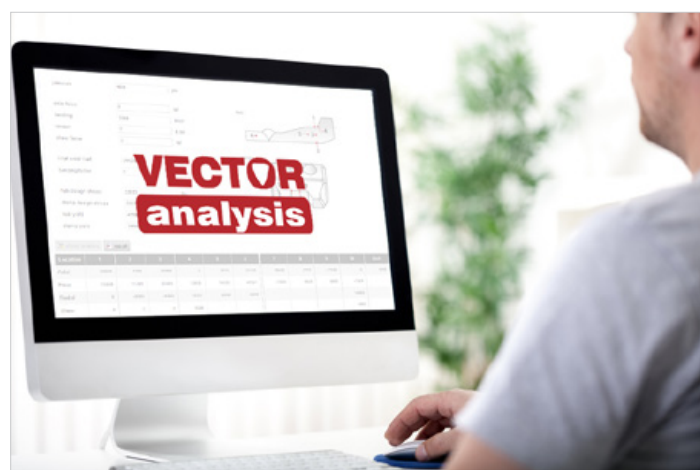
## 2 Vector Analysis

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.

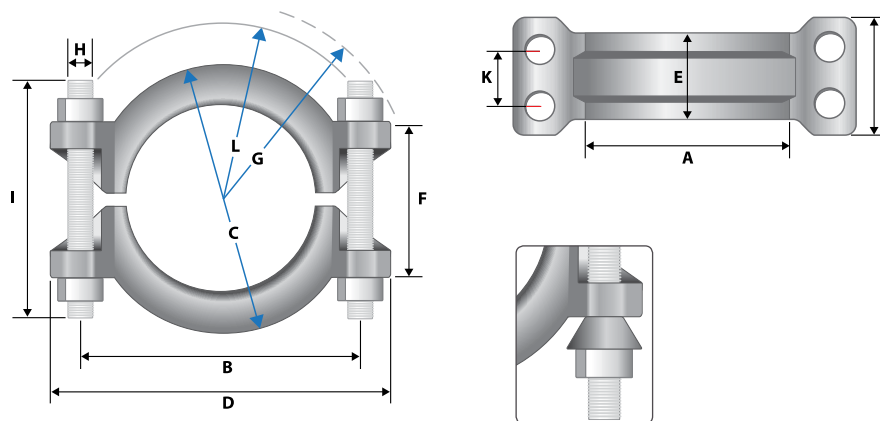
Vector Analysis allows the user to quickly select the full range of Techlok components compatible with general piping requirements. The data can be saved and manipulated to fit with piping specifications, prior to calculating load performance charts for each size of connector. Alternatively the data 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	Clamp ID (A)		Bolt Centres (B)		Clamp OD (C)		Overall Length (D)		Clamp Width (E)		Lug Separation (F)		Clamp Clearance (G)		Bolt Diameter (H)		Bolt Length (I)		Bolt Lug Width (J)		Bolt Pitch (K)		Assembly Clearance (L)		Clampset Weight (Note 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
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	Clamp ID (A)		Bolt Centres (B)		Clamp OD (C)		Overall Length (D)		Clamp Width (E)		Lug Separation (F)		Clamp Clearance (G)		Bolt Diameter (H)		Bolt Length (I)		Bolt Lug Width (J)		Bolt Pitch (K)		Assembly Clearance (L)		Clampset Weight (Note 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	Clamp ID (A)		Bolt Centres (B)		Clamp OD (C)		Overall Length (D)		Clamp Width (E)		Lug Separation (F)		Clamp Clearance (G)		Bolt Diameter (H)		Bolt Length (I)		Bolt Lug Width (J)		Bolt Pitch (K)		Assembly Clearance (L)		Clampset Weight (Note 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 :**

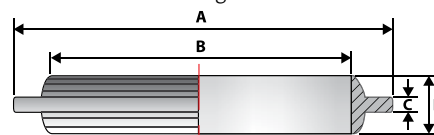
- 1) Contact Vector for full clamp specification details.
- 2) Clampset weights are approximate and include standard boltset.
- 3) Dimensions are approximate may be subject to changes without prior notice.



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 lubrication 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 sealing 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 sealing rib as shown below.

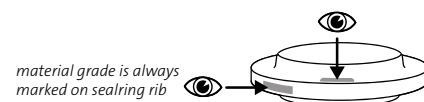


## Sealring Dimensional and Weight Data

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

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



Sealring Material Type		Low Alloy	Stainless	6 Mo Stainless	High Strength Stainless	Duplex & Superduplex	Nickel Alloy
Grade marked on sealing 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
2. Not recommended for sour service
3. Not recommended for produced or injected seawater
4. Not recommended for cryogenic service below -100°C
5. Not recommended for service below -50°C
6. For H<sub>2</sub>S service refer to NACE MR0175



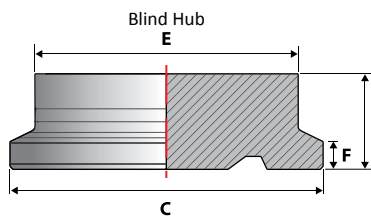


Techlok hubs are made from the same generic material as the piping system they connect. The Techlok standard materials are A350 LF2 (modified), A182 F316, A182 F51 (UNS S31803) and A182 F55 (UNS S32760), but the hubs can be manufactured from almost any machinable metal, typically carbon steels, stainless steels, duplex

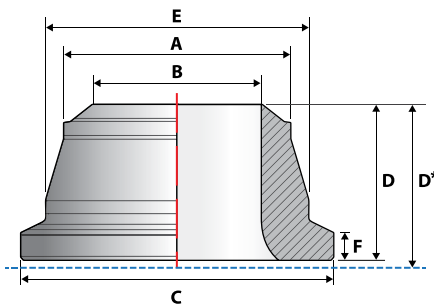
steels, nickel alloys and titanium as well as other materials. All hubs are provided with suitable corrosive protection and protective caps on seat area. The welding bevel is fully tolerated in accordance with ANSI B16.5 as standard. Other weld preps (i.e. J preps) can be supplied on request. Carbon, 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

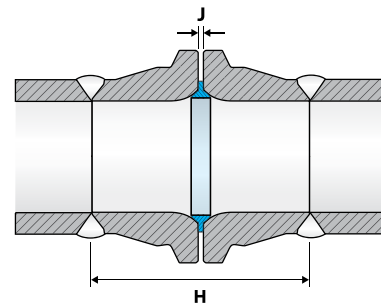
N.P.S. O. Dia (A)	(DN)	Pipe Schedule	Techlok Designation Hub / S Ring	Pipe Inside Diameter (B)		Hub Outside Diameter (C)		Hub Length (D)		Hub Assembly Length (D*)		Backface Diameter (E)		Lip Thickness (F)		Blind Thickness (G)		Sealring Gap (J)		BW Hub Weight		Blind Hub Weight	
ins	(mm)			ins	mm	ins	mm	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	1in/5	0.622	15.8	2.000	50.8	1.750	44.5	1.813	46.0	1.500	38.1	0.313	8.0	1.313	33.4	0.125	3.2	0.6	0.3	0.8	0.4
		XS 80 80S	1in/5	0.546	13.9	2.000	50.8	1.750	44.5	1.813	46.0	1.500	38.1	0.313	8.0	1.313	33.4	0.125	3.2	0.6	0.3	0.8	0.4
		160	1in/4	0.466	11.8	2.000	50.8	1.750	44.5	1.813	46.0	1.500	38.1	0.313	8.0	1.313	33.4	0.125	3.2	0.6	0.3	0.8	0.4
		XXS	1in/4	0.252	6.4	2.000	50.8	1.750	44.5	1.813	46.0	1.500	38.1	0.313	8.0	1.313	33.4	0.125	3.2	0.7	0.3	0.8	0.4
3/4" 1.050	(DN 20) (26.7)	Std 40 40S	1in/7	0.824	20.9	2.000	50.8	1.750	44.5	1.813	46.0	1.500	38.1	0.313	8.0	1.313	33.4	0.125	3.2	0.5	0.2	0.8	0.4
		XS 80 80S	1in/7	0.742	18.8	2.000	50.8	1.750	44.5	1.813	46.0	1.500	38.1	0.313	8.0	1.313	33.4	0.125	3.2	0.6	0.3	0.8	0.4
		160	1in/5	0.614	15.6	2.000	50.8	1.750	44.5	1.813	46.0	1.500	38.1	0.313	8.0	1.313	33.4	0.125	3.2	0.7	0.3	0.8	0.4
		XXS	1in/4	0.434	11.0	2.000	50.8	1.750	44.5	1.813	46.0	1.500	38.1	0.313	8.0	1.313	33.4	0.125	3.2	0.7	0.3	0.8	0.4
1" 1.315	(DN 25) (33.4)	Std 40 40S	1in/11	1.049	26.6	2.000	50.8	1.750	44.5	1.813	46.0	1.500	38.1	0.313	8.0	1.313	33.4	0.125	3.2	0.5	0.2	0.8	0.4
		XS 80 80S	1in/11	0.957	24.3	2.000	50.8	1.750	44.5	1.813	46.0	1.500	38.1	0.313	8.0	1.313	33.4	0.125	3.2	0.5	0.2	0.8	0.4
		160	1in/7	0.815	20.7	2.000	50.8	1.750	44.5	1.813	46.0	1.500	38.1	0.313	8.0	1.313	33.4	0.125	3.2	0.6	0.3	0.8	0.4
		XXS	1in/5	0.599	15.2	2.000	50.8	1.750	44.5	1.813	46.0	1.500	38.1	0.313	8.0	1.313	33.4	0.125	3.2	0.7	0.3	0.8	0.4
1-1/2" 1.900	(DN 40) (48.3)	Std 40 40S	1-1/2in/14	1.610	40.9	3.125	79.4	2.375	60.3	2.500	63.5	2.375	60.3	0.437	11.1	1.625	41.3	0.250	6.4	1.6	0.7	2.5	1.1
		XS 80 80S	1-1/2in/13	1.500	38.1	3.125	79.4	2.375	60.3	2.438	61.9	2.375	60.3	0.500	12.7	1.625	41.3	0.125	3.2	1.9	0.8	2.6	1.2
		160	1-1/2in/13	1.338	34.0	3.125	79.4	2.375	60.3	2.438	61.9	2.375	60.3	0.500	12.7	1.625	41.3	0.125	3.2	2.0	0.9	2.6	1.2
		XXS	1-1/2in/11	1.100	27.9	3.125	79.4	2.375	60.3	2.438	61.9	2.375	60.3	0.500	12.7	1.625	41.3	0.125	3.2	2.4	1.1	2.6	1.2
2" 2.375	(DN 50) (60.3)	Std 40 40S	2in/20	2.067	52.5	3.625	92.1	2.750	69.9	2.875	73.0	2.875	73.0	0.437	11.1	1.750	44.5	0.250	6.4	2.2	1.0	3.7	1.7
		XS 80 80S	2in/20	1.939	49.3	3.625	92.1	2.750	69.9	2.875	73.0	2.875	73.0	0.437	11.1	1.750	44.5	0.250	6.4	2.5	1.1	3.7	1.7
		160	2in/16	1.689	42.9	3.625	92.1	2.750	69.9	2.875	73.0	2.875	73.0	0.437	11.1	1.750	44.5	0.250	6.4	3.0	1.4	3.8	1.7
		XXS	2in/14	1.503	38.2	3.625	92.1	2.750	69.9	2.875	73.0	2.875	73.0	0.437	11.1	1.750	44.5	0.250	6.4	3.4	1.5	3.8	1.7
3" 3.500	(DN 75) (88.9)	Std 40 40S	3in/27	3.068	77.9	5.000	127.0	3.250	82.6	3.375	85.7	4.000	101.6	0.500	12.7	1.875	47.6	0.250	6.4	4.7	2.1	7.8	3.5
		XS 80 80S	3in/27	2.900	73.7	5.000	127.0	3.250	82.6	3.375	85.7	4.000	101.6	0.500	12.7	1.875	47.6	0.250	6.4	5.2	2.4	7.8	3.5
		160	3in/25	2.624	66.6	5.000	127.0	3.250	82.6	3.375	85.7	4.000	101.6	0.500	12.7	1.875	47.6	0.250	6.4	6.3	2.9	7.8	3.5
		XXS	3in/23	2.300	58.4	5.000	127.0	3.250	82.6	3.375	85.7	4.000	101.6	0.500	12.7	1.875	47.6	0.250	6.4	7.4	3.3	7.8	3.6
4" 4.500	(DN 100) (114.3)	Std 40 40S	4in/40	4.026	102.3	6.000	152.4	3.625	92.1	3.750	95.3	5.000	127.0	0.500	12.7	2.125	54.0	0.250	6.4	6.7	3.1	13.1	5.9
		XS 80 80S	4in/40	3.826	97.2	6.000	152.4	3.625	92.1	3.750	95.3	5.000	127.0	0.500	12.7	2.125	54.0	0.250	6.4	7.7	3.5	13.1	5.9
		120	4in/34	3.624	92.0	6.000	152.4	3.625	92.1	3.750	95.3	5.000	127.0	0.500	12.7	2.125	54.0	0.250	6.4	9.2	4.2	13.2	6.0
		160	4in/34	3.438	87.3	6.000	152.4	3.625	92.1	3.750	95.3	5.000	127.0	0.500	12.7	2.125	54.0	0.250	6.4	10.0	4.5	13.2	6.0
5" 5.563	(DN 125) (141.3)	Std 40 40S	5in/52	5.047	128.2	7.500	190.5	4.375	111.1	4.500	114.3	6.500	165.1	0.625	15.9	2.750	69.9	0.250	6.4	13.3	6.0	27.8	12.6
		XS 80 80S	5in/52	4.813	122.3	7.500	190.5	4.375	111.1	4.500	114.3	6.500	165.1	0.625	15.9	2.750	69.9	0.250	6.4	14.8	6.7	27.8	12.6
		120	5in/46	4.563	115.9	7.500	190.5	4.375	111.1	4.500	114.3	6.500	165.1	0.625	15.9	2.750	69.9	0.250	6.4	17.8	8.1	27.8	12.6
		160	5in/46	4.313	109.6	7.500	190.5	4.375	111.1	4.500	114.3	6.500	165.1	0.625	15.9	2.750	69.9	0.250	6.4	19.2	8.7	27.8	12.6
6" 6.625	(DN 150) (168.3)	Std 40 40S	6in/62	6.065	154.1	9.250	235.0	4.625	117.5	4.813	122.7	7.750	196.9	0.750	19.1	2.875	73.0	0.375	9.5	20.4	9.2	43.0	19.5
		XS 80 80S	6in/56	5.761	146.3	9.250	235.0	4.625	117.5	4.750	120.7	7.750	196.9	0.812	20.6	2.875	73.0	0.250	6.4	24.9	11.3	43.6	19.8
		120	6in/54	5.501	139.7	9.250	235.0	4.625	117.5	4.750	120.7	7.750	196.9	0.812	20.6	2.875	73.0	0.250	6.4	27.7	12.6	43.6	19.8
		160	6in/52	5.189	131.8	9.250	235.0	4.625	117.5	4.750	120.7	7.750	196.9	0.812	20.6	2.875	73.0	0.250	6.4	30.7	13.9	43.6	19.8
8" 8.625	(DN 200) (219.1)	Std 40 40S	8in/82	8.081	205.7	11.500	292.1	5.375	136.5	5.563	141.3	10.000	254.0	0.750	19.1	3.188	81.0	0.375	9.5	33.0	15.0	76.7	34.8
		XS 80 80S	8in/76	7.625	193.7	11.500	292.1	5.375	136.5	5.563	141.3	10.000	254.0	0.750	19.1	3.188	81.0	0.375	9.5	40.3	18.3	76.7	34.8
		100	8in/76	7.439	189.0	11.500	292.1	5.375	136.5	5.563	141.3	10.000	254.0	0.750	19.1	3.188	81.0	0.375	9.5	42.4	19.2	76.7	34.8
		120	8in/72	7.189	182.6	11.500	292.1	5.375	136.5	5.563	141.3	10.000	254.0	0.750	19.1	3.188	81.0	0.375	9.5	47.8	21.7	76.7	34.8
10" 10.000	(DN 250) (254.0)	Std 40 40S	10in/100	10.000	254.0	13.500	342.9	6.125	154.9	6.350	161.3	12.000	304.8	0.750	19.1	3.188	81.0	0.375	9.5	50.0	22.7	81.3	36.9
		XS 80 80S	10in/94	9.500	241.3	13.500	342.9	6.125	154.9	6.350	161.3	12.000	304.8	0.750	19.1	3.188	81.0	0.375	9.5	57.5	26.1	81.3	36.9
		120	10in/90	9.125	231.8	13.500	342.9	6.125	154.9	6.350	161.3	12.000	304.8	0.750	19.1	3.188	81.0	0.375	9.5	62.5	28.4	81.3	36.9
		160	10in/86	8.750	222.5	13.500	342.9	6.125	154.9	6.350	161.3	12.000	304.8	0.750	19.1	3.188	81.0	0.375	9.5	69.9	31.7	81.3	36.9



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)



BW Hub



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

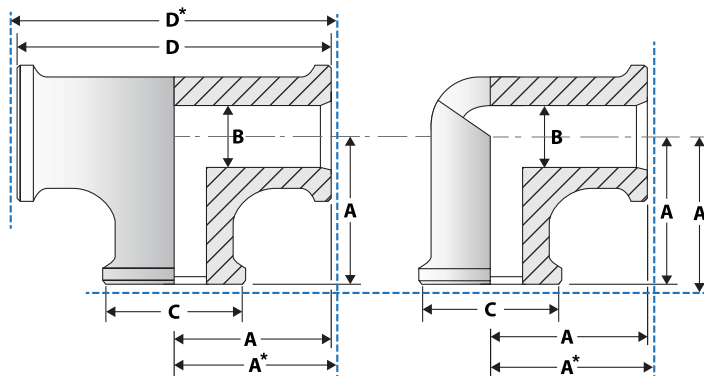
## Heavy Duty Series

N.P.S. O. Dia (A)		(DN)	Pipe Schedule	Techlok Designation Hub / S Ring	Pipe Inside Diameter (B)		Hub Outside Diameter (C)		Hub Length (D)		Hub Assembly Length (D*)		Backface Diameter (E)		Lip Thickness (F)		Blind Thickness (G)		Sealing Gap (J)		BW Hub Weight		Blind Hub Weight	
					ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	Lbs	Kg	Lbs	Kg
2"	(DN 50)	Std 40 40S XS 80 80S 160 XXS	H2in/20 H2in/20 H2in/16 H2in/14	2.067	52.5	4.750	120.7	3.250	82.6	3.375	85.7	3.750	95.3	0.625	15.9	1.875	47.6	0.250	6.4	6.2	2.8	7.2	3.3	
				1.939	49.3	4.750	120.7	3.250	82.6	3.375	85.7	3.750	95.3	0.625	15.9	1.875	47.6	0.250	6.4	6.5	2.9	7.2	3.3	
				1.689	42.9	4.750	120.7	3.250	82.6	3.375	85.7	3.750	95.3	0.625	15.9	1.875	47.6	0.250	6.4	7.1	3.2	7.2	3.3	
				1.503	38.2	4.750	120.7	3.250	82.6	3.375	85.7	3.750	95.3	0.625	15.9	1.875	47.6	0.250	6.4	7.5	3.4	7.2	3.3	
3"	(DN 75)	Std 40 40S XS 80 80S 160 XXS	H3in/27 H3in/27 H3in/25 H3in/23	3.068	77.9	5.500	139.7	3.500	88.9	3.625	92.1	4.500	114.3	0.625	15.9	2.125	54.0	0.250	6.4	7.3	3.3	11.1	5.0	
				2.900	73.7	5.500	139.7	3.500	88.9	3.625	92.1	4.500	114.3	0.625	15.9	2.125	54.0	0.250	6.4	8.0	3.6	11.1	5.0	
				2.624	66.6	5.500	139.7	3.500	88.9	3.625	92.1	4.500	114.3	0.625	15.9	2.125	54.0	0.250	6.4	9.2	4.2	11.1	5.0	
				2.300	58.4	5.500	139.7	3.500	88.9	3.625	92.1	4.500	114.3	0.625	15.9	2.125	54.0	0.250	6.4	10.3	4.7	11.1	5.1	
4"	(DN 100)	Std 40 40S XS 80 80S 120 160 XXS	H4in/40 H4in/40 H4in/34 H4in/34 H4in/31	4.026	102.3	6.750	171.5	4.000	101.6	4.125	104.8	5.750	146.1	0.625	15.9	2.750	69.9	0.250	6.4	11.9	5.4	22.0	10.0	
				3.826	97.2	6.750	171.5	4.000	101.6	4.125	104.8	5.750	146.1	0.625	15.9	2.750	69.9	0.250	6.4	13.0	5.9	22.0	10.0	
				3.624	92.0	6.750	171.5	4.000	101.6	4.125	104.8	5.750	146.1	0.625	15.9	2.750	69.9	0.250	6.4	14.6	6.6	22.2	10.1	
				3.438	87.3	6.750	171.5	4.000	101.6	4.125	104.8	5.750	146.1	0.625	15.9	2.750	69.9	0.250	6.4	15.5	7.0	22.2	10.1	
6"	(DN 150)	XS 80 80S 120 160 XXS 24mm	H8in/56 H8in/54 H8in/52 H8in/52 H8in/46	5.761	146.3	11.500	292.1	5.000	127.0	5.125	130.2	9.500	241.3	1.063	27.0	3.188	81.0	0.250	6.4	64.5	29.3	75.7	34.3	
				5.501	139.7	11.500	292.1	5.000	127.0	5.125	130.2	9.500	241.3	1.063	27.0	3.188	81.0	0.250	6.4	67.1	30.4	75.7	34.3	
				5.189	131.8	11.500	292.1	5.000	127.0	5.125	130.2	9.500	241.3	1.063	27.0	3.188	81.0	0.250	6.4	69.6	31.6	75.7	34.3	
				4.897	124.4	11.500	292.1	5.000	127.0	5.125	130.2	9.500	241.3	1.063	27.0	3.188	81.0	0.250	6.4	71.1	32.3	75.7	34.3	
8"	(DN 200)	Std 40 40S XS 80 80S 100 120 140 XXS 160 32mm	H8in/82 H8in/76 H8in/76 H8in/72 H8in/72 H8in/67 H8in/67 H8in/62	7.981	202.7	11.500	292.1	5.000	127.0	5.188	131.8	9.500	241.3	1.000	25.4	3.188	81.0	0.375	9.5	31.6	14.3	74.6	33.8	
				7.625	193.7	11.500	292.1	5.000	127.0	5.188	131.8	9.500	241.3	1.000	25.4	3.188	81.0	0.375	9.5	38.3	17.4	74.6	33.9	
				7.439	189.0	11.500	292.1	5.000	127.0	5.188	131.8	9.500	241.3	1.000	25.4	3.188	81.0	0.375	9.5	40.3	18.3	74.6	33.9	
				7.189	182.6	11.500	292.1	5.000	127.0	5.188	131.8	9.500	241.3	1.000	25.4	3.188	81.0	0.375	9.5	45.4	20.6	74.7	33.9	
10"	(DN 250)	Std 40 40S XS 60 80S 80 100 120 XXS 140 160 100	H10in/102 H10in/97 H10in/94 H10in/94 H10in/91 H10in/87 H10in/84	10.020	254.5	13.625	346.1	6.000	152.4	6.188	157.2	11.625	295.3	1.250	31.8	3.500	88.9	0.375	9.5	49.9	22.6	120.7	54.8	
				9.750	247.7	13.625	346.1	6.000	152.4	6.188	157.2	11.625	295.3	1.250	31.8	3.500	88.9	0.375	9.5	57.5	26.1	120.8	54.8	
				9.564	242.9	13.625	346.1	6.000	152.4	6.188	157.2	11.625	295.3	1.250	31.8	3.500	88.9	0.375	9.5	60.7	27.6	120.8	54.8	
				9.314	236.6	13.625	346.1	6.000	152.4	6.188	157.2	11.625	295.3	1.250	31.8	3.500	88.9	0.375	9.5	67.6	30.7	120.8	54.8	
12"	(DN 300)	Std 40 40S XS 80S 80 100 XXS 120 140 160	H12in/120 H12in/120 H12in/116 H12in/116 H12in/112 H12in/106 H12in/106 H12in/102	12.000	304.8	16.000	406.4	6.625	168.3	6.813	173.0	14.000	355.6	1.375	34.9	4.000	101.6	0.375	9.5	77.1	35.0	194.5	88.2	
				11.938	303.2	16.000	406.4	6.625	168.3	6.813	173.0	14.000	355.6	1.375	34.9	4.000	101.6	0.375	9.5	78.8	35.8	194.5	88.2	
				11.750	298.5	16.000	406.4	6.625	168.3	6.813	173.0	14.000	355.6	1.375	34.9	4.000	101.6	0.375	9.5	85.4	38.7	194.5	88.2	
				11.376	289.0	16.000	406.4	6.625	168.3	6.813	173.0	14.000	355.6	1.375	34.9	4.000	101.6	0.375	9.5	94.4	42.8	194.5	88.2	
14"	(DN 350)	XS 120 100 XXS 120 140 160	H12in/112 H12in/106 H12in/106 H12in/106 H12in/102	11.064	281.0	16.000	406.4	6.625	168.3	6.938	176.2	14.000	355.6	1.250	31.8	4.000	101.6	0.625	15.9	104.3	47.3	192.9	87.5	
				10.750	273.1	16.000	406.4	6.625	168.3	6.813	173.0	14.000	355.6	1.375	34.9	4.000	101.6	0.375	9.5	112.9	51.2	194.6	88.3	
				10.500	266.7	16.000	406.4	6.625	168.3	6.813	173.0	14.000	355.6	1.375	34.9	4.000	101.6	0.375	9.5	118.3	53.7	194.6	88.3	
				10.126	257.2	16.000	406.4	6.625	168.3	6.813	173.0	14.000	355.6	1.375	34.9	4.000	101.6	0.375	9.5	129.3	58.7	194.6	88.3	
16"	(DN 400)	XS 40 60 80 100 120 140 160	H14in/134 H14in/130 H14in/124 H14in/124 H14in/120 H14in/116 H14in/112	13.124	333.3	18.500	469.9	7.250	184.2	7.500	190.5	16.500	419.1	1.187	30.1	4.500	114.3	0.500	12.7	124.7	56.6	293.0	132.9	
				13.000	330.2	18.500	469.9	7.250	184.2	7.500	190.5	16.500	419.1	1.187	30.1	4.500	114.3	0.500	12.7	133.2	60.4	293.1	132.9	
				12.500	317.5	18.500	469.9	7.250	184.2	7.438	188.9	16.500	419.1	1.250	31.8	4.500	114.3	0.375	9.5	153.3	69.5	294.1	133.4	
				12.124	307.9	18.500	469.9	7.250	184.2	7.438	188.9	16.500	419.1	1.250	31.8	4.500	114.3	0.375	9.5	163.8	74.3	294.1	133.4	
18"	(DN 450)	XS 120 140 160	H14in/120 H14in/120 H14in/116 H14in/112	11.814	300.1	18.500	469.9	7.250	184.2	7.438	188.9	16.500	419.1	1.250	31.8	4.500	114.3	0.375	9.5	177.3	80.4	294.2	133.4	
				11.500	292.1	18.500	469.9	7.250	184.2	7.438	188.9	16.500	419.1	1.250	31.8	4.500	114.3	0.375	9.5	187.2	84.9	294.2	133.4	
				11.188	284.2	18.500	469.9	7.250	184.2	7.588	192.7	16.500	419.1	1.125	28.6	4.500	114.3	0.675	17.1	197.0	89.4	292.3	132.6	
				11.148	282.8	18.500	469.9	7.250	184.2	7.588	192.7	16.500	419.1	1.125	28.6	4.500	114.3	0.675	17.1	197.0	89.4	292.3	132.6	
20"	(DN 500)	XS 40 60 80 100 120 140 160	H16in/152 H16in/152 H16in/144 H16in/140 H16in/137 H16in/134 H16in/130	15.000	381.0	21.000	533.4	7.875	200.0	8.125	206.4	19.000	482.6	1.688	42.9	5.000	127.0	0.500	12.7	194.8	88.4	433.8	196.8	
				14.688	373.1	21.000	533.4	7.875	200.0	8.125	206.4	19.000	482.6	1.688	42.9	5.000	127.0	0.500	12.7	206.3	93.6	433.8	196.8	
				14.314	363.6	21.000	533.4	7.875	200.0	8.125	206.4	19.000	482.6	1.688	42.9	5.000	127.0	0.500	12.7	229.1	103.9	433.9	196.8	
				13.938	354.0	21.000	533.4	7.875	200.0	8.125	206.4	19.000	482.6	1.688	42.9	5.000	127.0	0.500	12.7	247.5	112.3	434.0	196.8	
22"	(DN 550)	XS 120 140 160	H16in/137 H16in/134 H16in/130	13.564	344.5	21.000	533.4	7.875	200.0	8.188	208.0	19.000	482.6	1.625	41.3	5.000	127.0	0.625	15.9	260.5	118.2	432.8	196.3	
				13.124	333.3	21.000	533.4	7.875	200.0	8.125	206.4	19.000	482.6	1.688	42.9	5.000	127.0	0.500	12.7	279.4	126.8	434.0	196.9	
				12.812	325.4	21.000	533.4	7.875	200.0	8.125	206.4	19.000	482.6	1.688	42.9	5.000	127.0	0.500	12.7	293.9	133.3	434.1	196.9	
				12.500	317.5	21.000	533.4	7.875	200.0															

## 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.



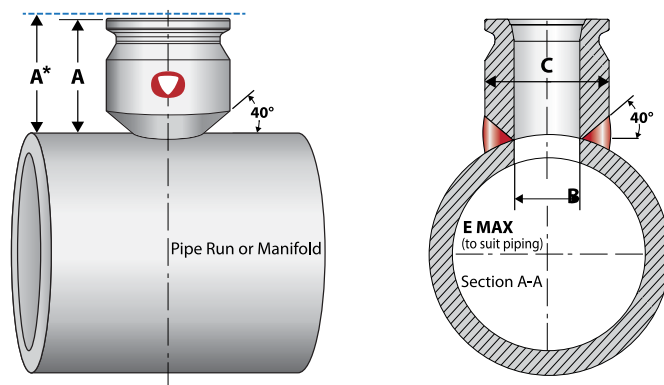
Techlok Size	Seal Ring Size	Dimensional data										Weight (approx)					
		A		A*		B Bore	C		D		D*		Elbow		Tee		
		Branch length		Length to Centerline			Hub Outside dia.		Tee Length		Length to Centerline						
		ins	mm	ins	mm		ins	mm	ins	mm	ins	mm	lbs	Kg	lbs	Kg	
1in	4 - 11	3.00	76.2	3.06	77.8	Bore to match sealing bore.  see page 5	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		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		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		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		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		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 Sweep-o-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							Weight (Note 2)	
		A Branch length		A* Branch length to Centerline (Note 3)		B Bore	C Hub Outside diameter (Note 1)			
		ins	mm	ins	mm		ins	mm	lbs	Kg
1in	4 -11	3.00	76.2	3.06	77.8	Bore to match sealing bore.  see page 5	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		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		5.00	127.0	12	5.5
4in	25 - 40	6.00	152.4	6.13	155.6		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		9.25	235.0	64	29.0
6in	62	8.94	227.0	9.13	231.8		9.25	235.0	46	21.0
8in	52 - 56	10.00	254.0	10.13	257.2		11.50	292.1	155	70.3
8in	62 - 82	9.94	252.4	10.13	257.2		11.50	292.1	105	47.5
H2in	14 - 20	5.38	136.5	5.50	139.7		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		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 A333 Gr 1 API 5L X52	A105 A350 LF2 (Mod) A694 F52	AISI 4140 / Mos2 or PTFE <sup>(7)</sup>	AISI 4140 - B7/2H AISI 4140 - L7/7 AISI 4140 - L7M/7M	General Service, NACE <sup>(1)</sup> General Service, NACE, Low Temperature <sup>(2)</sup> General Service, Full NACE Service, Low Temperature <sup>(3)</sup>
A106 Gr B A333 Gr 1 API 5L X52	A350 LF2 (Mod) - with alloy 625 weld overlay (Note 5) as above	B637 UNS N07718 / Mos2 or PTFE <sup>(7)</sup> (Alloy 718)	AISI 4140 - B7/2H AISI 4140 - L7/7 AISI 4140 - L7M/7M	General Service, NACE <sup>(1)</sup> General Service, NACE, Low Temperature <sup>(2)</sup> General Service, Full NACE Service, Low Temperature <sup>(3)</sup>
AISI 4130	AISI 4130	AISI 4140 / Mos2 or PTFE <sup>(7)</sup>	AISI 4140 - B7/2H AISI 4140 - L7/7 AISI 4140 - L7M/7M	High Pressure Service (API), NACE <sup>(1)</sup> High Pressure Service (API), NACE, Low Temperature <sup>(2)</sup> High Pressure Service (API), Full NACE Service, Low Temperature <sup>(3)</sup>
A321 304 A321 316 A321 321	A182 F304 A182 F316 A182 F321	Duplex or 630 SS / Mos2 or PTFE <sup>(7)</sup> A182 F316 / MoS2 or PTFE <sup>(7)</sup> A564 630 / MoS2 B637 UNS N07718 / MoS2 or graphite	AISI 4140 - B7/2H A 182 F304 - B8/8 A 182 F304 - B8/8 A 182 F304 - B8/8	General Service, NACE <sup>(1)</sup> External Corrosion, Cryogenic Service. External Corrosion, High Temperature Service <sup>(4)</sup> External Corrosion, High Temperature Service <sup>(6)</sup>
A790 UNS 31803 (Duplex)	A182 F51 (UNS S31803)	Duplex or 630 SS / MoS2 or PTFE <sup>(7)</sup>	AISI 4140 - B7/2H AISI 4140 - L7/7 AISI 4140 - L7M/7M	General Service, NACE <sup>(1)</sup> General Service, NACE, Low Temperature <sup>(2)</sup> General Service, Full NACE Service, Low Temperature <sup>(3)</sup>
Nickel Alloys	Nickel Alloy to suit piping	B637 UNS N07718 / MoS2 or PTFE <sup>(7)</sup> B637 UNS N07718 / MoS2 or graphite	AISI 4140 - B7/2H A 182 F304 - B8/8 A 182 F304 - B8/8	General Service, NACE <sup>(1)</sup> External Corrosion, Cryogenic Service. External Corrosion, High Temperature Service <sup>(6)</sup>

**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 pressure-temperature 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	6in 52, A105 hub Low alloy clamp 3000psi@300°F	L16in 134, 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	PRT = 7148psi (page 10)	PRT = 364 Bar (page 24)
PD = Design Pressure	PD = 3000psi	PD = 350 Bar
BM <sub>MAX</sub> = Max bending capacity	BM <sub>MAX</sub> = 34589 Ft-lbs (page 10)	BM <sub>MAX</sub> = 838256 Nm (page 24)
BMD = Design bending capacity at required pressure and temperature  BMD = PRT / PRA x BM <sub>MAX</sub> x [1-PD/(PRT x 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.
- 2) 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 Preload Note 1		Bolt Torque (Friction=0.1) Notes 1 & 2		Notes	2X		GR Standard	GR Optional Sizes
	ins	Lbf	KN	Ft-lbs	Nm		ins	mm		
Standard Clamp Series										
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 Duty Series										
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 Duty Series										
H2in	0.875	9946	44.2	100	136	4 & 5	0.2	6	B	
H3in	0.875	11,931	53.1	120	163	4 & 5	0.3	8	C	
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	P	
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	Y	

**NOTES :**

- 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.



## Standard Duty Series

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 Size	Schedules	Min bore of sealing		Pressure Rating (psi)							Max Bending Capacity (6)	Pressure rating (bar)							Max Bending Capacity (6)
			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
1in11	1 in	Std-40-40S	1.13	<b>28.6</b>	4,180	3,832	3,693	3,577	3,402	3,205	2,938	214	<b>283</b>	<b>263</b>	<b>255</b>	<b>247</b>	<b>237</b>	<b>225</b>	<b>210</b>	294
1in11		XS-80-80S	1.13	<b>28.6</b>	4,180	3,832	3,693	3,577	3,402	3,205	2,938	214	<b>283</b>	<b>263</b>	<b>255</b>	<b>247</b>	<b>237</b>	<b>225</b>	<b>210</b>	294
1in8		XS-80-80S (4)	1.00	<b>25.4</b>	6,578	6,030	5,810	5,628	5,354	5,043	4,623	300	<b>445</b>	<b>414</b>	<b>401</b>	<b>389</b>	<b>373</b>	<b>354</b>	<b>330</b>	413
1in7		160	0.91	<b>23.0</b>	8,529	7,818	7,534	7,297	6,941	6,539	5,994	346	<b>577</b>	<b>537</b>	<b>519</b>	<b>504</b>	<b>483</b>	<b>459</b>	<b>428</b>	476
1in5		XXS	0.63	<b>15.9</b>	15,286	14,012	13,502	13,078	12,441	11,719	10,742	469	<b>1,035</b>	<b>962</b>	<b>931</b>	<b>904</b>	<b>866</b>	<b>822</b>	<b>766</b>	644
1in4			0.50	<b>12.7</b>	18,899	17,324	16,694	16,169	15,381	14,489	13,281	511	<b>1,279</b>	<b>1,189</b>	<b>1,151</b>	<b>1,118</b>	<b>1,070</b>	<b>1,016</b>	<b>947</b>	702
1.5in14	1.5 in	Std-40-40S	1.61	<b>40.9</b>	7,186	6,588	6,348	6,148	5,849	5,510	5,050	1,185	<b>486</b>	<b>452</b>	<b>438</b>	<b>425</b>	<b>407</b>	<b>386</b>	<b>360</b>	1,628
1.5in13		XS-80-80S	1.50	<b>38.1</b>	8,644	7,924	7,636	7,396	7,036	6,627	6,075	1,423	<b>585</b>	<b>544</b>	<b>526</b>	<b>511</b>	<b>490</b>	<b>465</b>	<b>433</b>	1,955
1.5in13		160	1.50	<b>38.1</b>	8,644	7,924	7,636	7,396	7,036	6,627	6,075	1,423	<b>585</b>	<b>544</b>	<b>526</b>	<b>511</b>	<b>490</b>	<b>465</b>	<b>433</b>	1,955
1.5in11		XXS	1.13	<b>28.6</b>	14,176	12,995	12,523	12,129	11,538	10,869	9,963	1,806	<b>959</b>	<b>892</b>	<b>863</b>	<b>838</b>	<b>803</b>	<b>762</b>	<b>711</b>	2,482
2in20	2 in	Std-40-40S	2.06	<b>52.4</b>	6,262	5,740	5,531	5,357	5,096	4,800	4,400	1,742	<b>424</b>	<b>394</b>	<b>381</b>	<b>370</b>	<b>355</b>	<b>337</b>	<b>314</b>	2,394
2in20		XS-80-80S	2.06	<b>52.4</b>	6,262	5,740	5,531	5,357	5,096	4,800	4,400	1,742	<b>424</b>	<b>394</b>	<b>381</b>	<b>370</b>	<b>355</b>	<b>337</b>	<b>314</b>	2,394
2in16		160	1.87	<b>47.4</b>	8,356	7,659	7,381	7,149	6,800	6,406	5,872	2,103	<b>566</b>	<b>526</b>	<b>509</b>	<b>494</b>	<b>473</b>	<b>449</b>	<b>419</b>	2,890
2in14		XXS	1.61	<b>40.9</b>	11,410	10,459	10,078	9,762	9,286	8,747	8,018	2,581	<b>772</b>	<b>718</b>	<b>695</b>	<b>675</b>	<b>646</b>	<b>614</b>	<b>572</b>	3,547
2in13			1.50	<b>38.1</b>	12,804	11,737	11,310	10,955	10,421	9,817	8,998	2,865	<b>867</b>	<b>806</b>	<b>780</b>	<b>757</b>	<b>725</b>	<b>688</b>	<b>642</b>	3,938
3in27		Std-40-40S	3.06	<b>77.8</b>	4,544	4,165	4,014	3,887	3,698	3,484	3,193	3,689	<b>308</b>	<b>286</b>	<b>277</b>	<b>269</b>	<b>257</b>	<b>244</b>	<b>228</b>	5,071
3in27		XS-80-80S	3.06	<b>77.8</b>	4,544	4,165	4,014	3,887	3,698	3,484	3,193	3,689	<b>308</b>	<b>286</b>	<b>277</b>	<b>269</b>	<b>257</b>	<b>244</b>	<b>228</b>	5,071
3in25		160	2.67	<b>67.9</b>	8,165	7,485	7,213	6,986	6,646	6,260	5,738	5,223	<b>553</b>	<b>514</b>	<b>497</b>	<b>483</b>	<b>462</b>	<b>439</b>	<b>409</b>	7,178
3in23		XXS	2.38	<b>60.3</b>	10,645	9,758	9,403	9,107	8,664	8,161	7,481	6,128	<b>720</b>	<b>670</b>	<b>648</b>	<b>630</b>	<b>603</b>	<b>572</b>	<b>534</b>	8,423
3in20			2.06	<b>52.4</b>	13,504	12,378	11,928	11,553	10,990	10,353	9,490	7,019	<b>914</b>	<b>850</b>	<b>822</b>	<b>799</b>	<b>765</b>	<b>726</b>	<b>677</b>	9,647
4in40	4 in	Std-40-40S	4.06	<b>103.2</b>	2,925	2,682	2,584	2,503	2,381	2,243	2,056	5,356	<b>198</b>	<b>184</b>	<b>178</b>	<b>173</b>	<b>166</b>	<b>157</b>	<b>147</b>	7,361
4in40		XS-80-80S	4.06	<b>103.2</b>	2,925	2,682	2,584	2,503	2,381	2,243	2,056	5,356	<b>198</b>	<b>184</b>	<b>178</b>	<b>173</b>	<b>166</b>	<b>157</b>	<b>147</b>	7,361
4in34		160	3.69	<b>93.7</b>	5,457	5,002	4,820	4,668	4,441	4,183	3,835	7,747	<b>369</b>	<b>343</b>	<b>332</b>	<b>323</b>	<b>309</b>	<b>293</b>	<b>274</b>	10,647
4in31		XXS	3.25	<b>82.6</b>	8,953	8,207	7,908	7,660	7,287	6,864	6,292	10,121	<b>606</b>	<b>563</b>	<b>545</b>	<b>529</b>	<b>507</b>	<b>481</b>	<b>449</b>	13,910
4in27			3.06	<b>77.8</b>	10,214	9,363	9,022	8,739	8,313	7,831	7,178	10,996	<b>691</b>	<b>643</b>	<b>622</b>	<b>604</b>	<b>578</b>	<b>549</b>	<b>512</b>	15,113
4in25		XXS	2.67	<b>67.9</b>	13,029	11,943	11,509	11,147	10,604	9,989	9,156	12,754	<b>882</b>	<b>820</b>	<b>793</b>	<b>771</b>	<b>738</b>	<b>701</b>	<b>653</b>	17,529
5in52	5 in	Std-40-40S	5.31	<b>135.0</b>	3,108	2,849	2,745	2,659	2,530	2,383	2,184	12,093	<b>210</b>	<b>196</b>	<b>189</b>	<b>184</b>	<b>176</b>	<b>167</b>	<b>156</b>	16,620
5in50		XS-80-80S	5.00	<b>127.0</b>	4,522	4,145	3,995	3,869	3,681	3,467	3,178	15,542	<b>306</b>	<b>285</b>	<b>275</b>	<b>267</b>	<b>256</b>	<b>243</b>	<b>227</b>	21,361
5in46		160	4.75	<b>120.7</b>	6,031	5,528	5,327	5,160	4,909	4,624	4,238	18,153	<b>408</b>	<b>379</b>	<b>367</b>	<b>357</b>	<b>342</b>	<b>324</b>	<b>302</b>	24,949
5in42		XXS	4.19	<b>106.4</b>	9,018	8,267	7,966	7,716	7,340	6,914	6,338	23,596	<b>610</b>	<b>567</b>	<b>549</b>	<b>533</b>	<b>511</b>	<b>485</b>	<b>452</b>	32,430
5in40			4.06	<b>103.2</b>	9,985	9,153	8,820	8,543	8,127	7,655	7,017	24,294	<b>676</b>	<b>628</b>	<b>608</b>	<b>591</b>	<b>565</b>	<b>537</b>	<b>501</b>	33,389
5in34		XXS	3.69	<b>93.7</b>	12,022	11,020	10,619	10,285	9,784	9,217	8,449	26,904	<b>814</b>	<b>756</b>	<b>732</b>	<b>711</b>	<b>681</b>	<b>646</b>	<b>603</b>	36,976
5in31			3.25	<b>82.6</b>	14,586	13,371	12,884	12,479	11,872	11,183	10,251	29,365	<b>987</b>	<b>918</b>	<b>888</b>	<b>863</b>	<b>826</b>	<b>784</b>	<b>731</b>	40,359
6in62	6 in	Std-40-40S	6.07	<b>154.1</b>	3,631	3,328	3,207	3,106	2,955	2,784	2,552	22,987	<b>246</b>	<b>228</b>	<b>221</b>	<b>215</b>	<b>206</b>	<b>195</b>	<b>182</b>	31,592
6in56		XS-80-80S-120	5.75	<b>146.1</b>	5,599	5,132	4,946	4,790	4,557	4,293	3,935	29,397	<b>379</b>	<b>352</b>	<b>341</b>	<b>331</b>	<b>317</b>	<b>301</b>	<b>281</b>	40,403
6in54		120 (4)	5.50	<b>139.7</b>	6,957	6,377	6,145	5,952	5,662	5,333	4,889	32,214	<b>471</b>	<b>438</b>	<b>424</b>	<b>411</b>	<b>394</b>	<b>374</b>	<b>349</b>	44,274
6in52		160-XXS	5.31	<b>135.0</b>	8,092	7,417	7,148	6,923	6,586	6,204	5,687	34,589	<b>548</b>	<b>509</b>	<b>493</b>	<b>479</b>	<b>458</b>	<b>435</b>	<b>406</b>	47,539
6in46		XXS	4.75	<b>120.7</b>	10,509	9,633	9,283	8,991	8,553	8,057	7,385	41,345	<b>711</b>	<b>661</b>	<b>640</b>	<b>621</b>	<b>595</b>	<b>565</b>	<b>527</b>	56,824
6in42			4.19	<b>106.4</b>	12,838	11,769	11,341	10,984	10,449	9,843	9,023	47,733	<b>869</b>	<b>808</b>	<b>782</b>	<b>759</b>	<b>727</b>	<b>690</b>	<b>644</b>	65,604
6in40			4.06	<b>103.2</b>	13,761	12,614	12,155	11,773	11,200	10,550	9,671	47,897	<b>931</b>	<b>866</b>	<b>838</b>	<b>814</b>	<b>779</b>	<b>740</b>	<b>690</b>	65,828
8in82	8 in	Std-40-40S	8.25	<b>209.6</b>	2,542	2,330	2,246	2,175	2,069	1,949	1,787	37,948	<b>172</b>	<b>160</b>	<b>155</b>	<b>150</b>	<b>144</b>	<b>137</b>	<b>127</b>	52,155
8in76		XS-80-80S	7.75	<b>196.9</b>	3,921	3,594	3,463	3,354	3,191	3,006	2,755	51,240	<b>265</b>	<b>247</b>	<b>239</b>	<b>232</b>	<b>222</b>	<b>211</b>	<b>197</b>	70,423
8in76		100	7.75	<b>196.9</b>	3,921	3,594	3,463	3,354	3,191	3,006	2,755	51,240	<b>265</b>	<b>247</b>	<b>239</b>	<b>232</b>	<b>222</b>	<b>211</b>	<b>197</b>	70,423
8in72		120-140	7.25	<b>184.2</b>	5,656	5,184	4,996	4,839	4,603	4,336	3,975	63,268	<b>383</b>	<b>356</b>	<b>344</b>	<b>334</b>	<b>320</b>	<b>304</b>	<b>283</b>	86,954
8in67		XXS-160	6.88	<b>174.6</b>	7,245	6,641	6,399	6,198	5,896	5,554	5,091	70,701	<b>490</b>	<b>456</b>	<b>441</b>	<b>428</b>	<b>410</b>	<b>390</b>	<b>363</b>	97,170
8in62			6.07	<b>154.1</b>	10,868	9,962	9,600	9,298	8,845	8,332	7,638	85,951	<b>736</b>	<b>684</b>	<b>662</b>	<b>643</b>	<b>615</b>	<b>584</b>	<b>545</b>	118,130
8in56			5.75	<b>146.1</b>	11,912	10,919	10,522	10,191	9,695	9,132	8,371	93,225	<b>806</b>	<b>750</b>	<b>725</b>	<b>704</b>	<b>675</b>	<b>641</b>	<b>597</b>	128,126

## Light Duty Series

Techlok size	Nom. Pipe Size	Schedules	Min bore of sealing		Pressure Rating (psi)							Max Bending Capacity (6)	Pressure rating (bar)							Max Bending Capacity (6)
			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
L14in134	14in	40	13.50	<b>342.9</b>	1,963	1,799	1,734	1,679	1,598	1,505	1,379	121,692	<b>133</b>	<b>124</b>	<b>120</b>	<b>116</b>	<b>111</b>	<b>106</b>	<b>98</b>	167,251
L14in130		XS	13.00	<b>330.2</b>	2,732	2,504	2,413	2,337	2,223	2,094	1,920	154,572	<b>185</b>	<b>172</b>	<b>166</b>	<b>162</b>	<b>155</b>	<b>147</b>	<b>137</b>	212,441



## Heavy Duty Series

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 Size	Schedules	Min bore of sealing		Pressure Rating (psi)							Max Bending Capacity (°)	Pressure rating (bar)							Max Bending Capacity (°)
			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	
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		160	1.87	47.4	14,099	12,924	12,454	12,063	11,475	10,809	9,909	6,423	954	887	859	834	798	758	707	8,828
H2in14		XXS	1.61	40.9	16,912	15,502	14,939	14,469	13,764	12,966	11,885	7,039	1,145	1,064	1,030	1,000	958	909	848	9,675
H2in13	3 in	160	1.50	38.1	18,175	16,661	16,055	15,550	14,793	13,934	12,773	7,427	1,230	1,144	1,107	1,075	1,029	977	911	10,208
H3in27		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		160	2.67	67.9	10,767	9,869	9,511	9,212	8,763	8,254	7,567	9,278	729	677	656	637	610	579	540	12,751
H3in23	4 in	XXS	2.38	60.3	13,174	12,076	11,637	11,271	10,722	10,100	9,258	10,189	892	829	802	779	746	708	660	14,003
H3in20		Std-40-40S	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		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
H4in40		160	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	6 in	XXS	3.69	93.7	9,350	8,571	8,259	7,999	7,610	7,168	6,571	16,489	633	588	569	553	529	503	469	22,662
H4in31		Std-40-40S	3.25	82.6	12,006	11,006	10,605	10,272	9,772	9,205	8,438	18,993	813	755	731	710	680	646	602	26,104
H4in27		XS-80-80S	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		160	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	8 in	80-80S-120 <sup>(5)</sup>	5.75	146.1	10,881	9,974	9,611	9,309	8,856	8,342	7,647	80,043	736	685	663	643	616	585	545	110,010
H8in52		160-XXS <sup>(5)</sup>	5.31	135.0	12,544	11,499	11,081	10,732	10,210	9,617	8,816	85,208	849	789	764	742	710	675	629	117,108
H8in46		Std-40-40S	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		XS-80-80S	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	10 in	XXS-160	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		Std-40-40S	7.25	184.2	4,794	4,395	4,235	4,102	3,902	3,675	3,369	50,963	324	302	292	284	271	258	240	70,042
H8in67		XS-160	6.88	174.6	6,274	5,752	5,542	5,368	5,107	4,810	4,409	58,278	425	395	382	371	355	337	315	80,097
H8in64		160	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	12 in	Std-40-40S	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		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	118	114	111	106	101	94	66,179
H10in97		120-100	9.88	250.8	2,604	2,387	2,300	2,228	2,119	1,996	1,830	62,520	176	164	159	154	147	140	131	85,927
H10in94		XXS-140	9.50	241.3	3,455	3,167	3,052	2,956	2,812	2,649	2,428	76,638	234	217	210	204	196	186	173	105,330
H10in87	14 in	160	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		Std-40-40S	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		XS-80-80S	8.25	209.6	7,392	6,776	6,530	6,324	6,016	5,667	5,195	115,962	500	465	450	437	419	397	371	159,376
H10in76		160	7.75	196.9	8,878	8,138	7,842	7,595	7,225	6,806	6,239	131,436	601	559	541	525	503	477	445	180,643
H12in120	16 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		XXS-120-140	10.75	273.1	5,128	4,700	4,529	4,387	4,173	3,931	3,603	166,279	347	323	312	303	290	276	257	228,531
H12in102	18 in	N.a.	10.25	260.4	6,531	5,986	5,769	5,587	5,315	5,007	4,590	188,792	442	411	398	386	370	351	327	259,472
H12in97		Std-40-40S	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		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	254	247	236	224	209	324,469
H14in124	20 in	80-100	12.50	317.5	5,233	4,797	4,622	4,477	4,259	4,012	3,678	272,253	354	329	319	309	296	281	262	374,179
H14in120		120	12.00	304.8	6,502	5,961	5,744	5,563	5,292	4,985	4,570	301,915	440	409	396	385	368	350	326	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	22 in	XXS	10.75	273.1	9,300	8,696	8,379	8,116	7,721	7,273	6,667	362,652	632	597	578	561	537	510	476	498,422
H16in152		XS-40-60	15.25	387.4	4,155	3,808	3,670	3,555	3,381	3,185	2,920	370,670	281	261	253	246	235	223	208	509,442
H16in144		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	24 in	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		140	13.50	342.9	7,607	6,973	6,720	6,508	6,191	5,832	5,346	514,233	515	479	463	450	431	409	381	706,752
H16in130		160	13.00	330.2	8,444	7,740	7,459	7,224	6,872	6,474	5,934	550,119	571	531	514	499	478	454	423	756,074
H16in120		XXS	12.00	304.8	10,197	9,347	9,007	8,724	8,299	7,817	7,166</									





## Standard 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 size	Nom. Pipe Size	Schedules	Min bore of sealing		Pressure Rating (psi)							Max Bending Capacity (6)	Pressure rating (bar)							Max Bending Capacity (6)
			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	1,120	930
1in4			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	1,385	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	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
1.5in11		XXS	1.13	28.6	20,477	18,771	18,088	17,519	16,666	15,699	14,675	2,609	1,386	1,289	1,247	1,211	1,160	1,101	1,039	3,586
2in20	2 in	Std-40-40S	2.06	52.4	9,044	8,291	7,989	7,738	7,361	6,934	6,482	2,516	612	569	551	535	512	486	459	3,458
2in20		XS-80-80S	2.06	52.4	9,044	8,291	7,989	7,738	7,361	6,934	6,482	2,516	612	569	551	535	512	486	459	3,458
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
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			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	1,069	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			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	1,008	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	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
8in72		120-140	7.25	184.2	8,169	7,488	7,216	6,989	6,649	6,263	5,854	91,387	553	514	498	483	463	439	414	125,601
8in67		XXS-160	6.88	174.6	9,949	9,592	9,244	8,953	8,517	8,023	7,500	102,123	681	658	637	619	593	563	531	140,356
8in62			6.07	154.1	12,610	12,610	12,610	12,610	12,610	12,035	11,250	124,152	869	869	869	869	869	841	796	170,632
8in56			5.75	146.1	14,739	14,739	14,739	14,721	14,004	13,191	12,331	134,658	1,016	1,016	1,016	1,015	974	925	873	185,071

## Light Duty Series

Techlok size	Nom. Pipe Size	Schedules	Min bore of sealing		Pressure Rating (psi)							Max Bending Capacity (6)	Pressure rating (bar)							Max Bending Capacity (6)
			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	368,324	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,



## 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 size	Nom. Pipe Size	Schedules	Min bore of sealing		Pressure Rating (psi)							Max Bending Capacity (°)	Pressure rating (bar)							Max Bending Capacity (°)
			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	
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	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		160	1.87	47.4	20,366	18,669	17,990	17,424	16,575	15,614	14,595	9,278	1,378	1,282	1,240	1,204	1,153	1,095	1033	12,752
H2in14		XXS	1.61	40.9	24,428	22,392	21,578	20,899	19,882	18,728	17,507	10,168	1,653	1,537	1,488	1,445	1,383	1,314	1,239	13,975
H2in13			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	1,332	14,744
H3in27	3 in	Std-40-40S	3.06	77.8	11,378	10,430	10,051	9,735	9,261	8,723	8,154	10,974	770	716	693	673	644	612	577	15,082
H3in27		XS-80-80S	3.06	77.8	11,378	10,430	10,051	9,735	9,261	8,723	8,154	10,974	770	716	693	673	644	612	577	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		XXS	2.38	60.3	19,029	17,443	16,809	16,280	15,487	14,589	13,637	14,717	1,288	1,197	1,159	1,125	1,078	1,023	965	20,227
H3in20			2.06	52.4	23,002	21,085	20,318	19,679	18,721	17,635	16,485	16,098	1,557	1,447	1,401	1,360	1,303	1,237	1,167	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		XS-80-80S	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
H4in34		160	3.69	93.7	13,505	12,380	11,930	11,555	10,992	10,354	9,679	23,817	914	850	823	799	765	726	685	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		2.67	67.9	22,986	21,070	20,304	19,665	18,708	17,622	16,473	31,371	1,556	1,446	1,400	1,359	1,302	1,236	1,166	43,116	
H8in56	6 in	80-80S-120 (5)	5.75	146.1	15,033	14,407	13,883	13,446	12,792	12,049	11,264	115,618	1,027	989	957	929	890	845	797	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			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	1,086	184,005
H8in82	8 in	Std-40-40S	8.25	209.6	2,824	2,589	2,495	2,416	2,299	2,165	2,024	39,487	191	178	172	167	160	152	143	54,270
H8in76		XS-80-80S	7.75	196.9	4,617	4,232	4,078	3,950	3,758	3,540	3,309	52,426	312	291	281	273	261	248	234	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		XXS-160	6.88	174.6	9,063	8,308	8,006	7,754	7,376	6,948	6,495	84,180	613	570	552	536	513	487	460	115,695
H8in64			6.50	165.1	11,220	10,663	10,275	9,952	9,467	8,918	8,336	95,653	765	732	708	688	659	625	590	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		XS-60-80-80S	9.88	250.8	3,761	3,448	3,323	3,218	3,061	2,884	2,696	90,307	255	237	229	222	213	202	191	124,116
H10in94		120-100	9.50	241.3	4,991	4,575	4,409	4,270	4,062	3,826	3,577	110,699	338	314	304	295	283	268	253	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		160	8.50	215.9	9,308	8,532	8,222	7,964	7,576	7,136	6,671	159,240	630	586	567	550	527	501	472	218,857
H10in82	12 in		8.25	209.6	10,132	9,788	9,432	9,135	8,690	8,186	7,652	167,501	693	672	650	631	605	574	542	230,210
H10in76			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		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		XS-80-80S	11.75	298.5	4,182	3,834	3,694	3,578	3,404	3,206	2,997	167,638	283	263	255	247	237	225	212	230,399
H12in112		100	11.25	285.8	5,677	5,204	5,014	4,857	4,620	4,352	4,068	208,208	384	357	346	336	321	305	288	286,157
H12in106	14 in	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			9.88	250.8	8,961	8,961	8,961	8,961	8,961	8,961	8,961	298,438	618	618	618	618	618	596	564	410,168
H14in134		40	13.50	342.9	4,701	4,309	4,153	4,022	3,826	3,604	3,369	291,142	318	296	286	278	266	253	238	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	16 in	80-100	12.50	317.5	6,881	6,881	6,677	6,467	6,152	5,795	5,417	393,254	474	473	460	447	428	406	383	540,481
H14in120		120	12.00	304.8	7,520	7,520	7,520	7,520	7,520	7,201	6,731	436,099	518	518	518	518	518	503	476	599,366
H14in116		140	11.75	298.5	7,800	7,800	7,800	7,800	7,800	7,800	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			10.75	273.1	9,300	9,300	9,300	9,300	9,300	9,300	8,900	523,830	641	641	641	641	641	641	624	719,942
H16in152	16 in	XS-40-60	15.25	387.4	6,001	5,501	5,301	5,134	4,884	4,601	4,301	535,412	406	378	365	355	340	323	304	735,860
H16in144		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	14.00	355.6	9,289	8,753	8,434	8,169	7,771	7,320	6,843	693,539	632	601	582	565	541	513	484	953,187
H16in137		120	13.88	352.4	9,452	9,133	8,801	8,524	8,109	7,638	7,140	709,671	647	627	607	589	564	536	505	975,359
H16in134		140	13.50	342.9	9,969	9,969	9,706	9,401	8,943	8,424	7,875	742,781	687	685	669	650	622	591	557	1,020,882
H16in130	18 in	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			



## Standard Duty Series

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

Techlok size	Nom. Pipe Size	Schedules	Min bore of sealing		Pressure Rating (psi)							Max Bending Capacity (6)	Pressure rating (bar)							Max Bending Capacity (6)
			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	
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	1,292	1,071
1in4	1.5 in	Std-40-40S	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	1,598	1,160
1.5in14		XS-80-80S	1.61	40.9	11,468	10,979	10,580	10,247	9,748	9,183	8,584	1,974	783	754	729	708	678	644	608	2,713
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	1.50	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
1.5in11		160	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	1,198	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		160	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	1,082	6,564
3in27	3 in	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		160	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	1,142	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		160	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	5 in	XXS	2.67	67.9	20,791	19,905	19,181	18,578	17,673	16,648	15,562	21,257	1,420	1,366	1,322	1,284	1,230	1,168	1,101	29,216
5in52		Std-40-40S	5.31	135.0	4,960	4,748	4,576	4,432	4,216	3,971	3,712	20,154	339	326	315	306	293	279	263	27,700
5in50		XS-80-80S	5.00	127.0	7,217	6,909	6,658	6,449	6,134	5,779	5,402	25,904	493	474	459	446	427	405	382	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
5in42		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	6 in	Std-40-40S	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		160	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	1,016	61,627
5in31		XXS	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	1,233	61,091
6in62		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	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	8 in	Std-40-40S	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	1,085	109,339
6in40		160	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	1,221	1,163	1,040,755	
8in82		XS-80-80S	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		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
8in76		120-140	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	XXS-160	160	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		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		160	6.07	154.1	12,610	12,610	12,610	12,610	12,610	12,610	12,610	124,068	869	869	869	869	869	869	869	196,883
8in56		160	5.75	146.1	14,739	14,739	14,739	14,739	14,739	14,739	14,739	140,155	1,016	1,016	1,016	1,016	1,016	1,016	989	213,541

## Light Duty Series

Techlok size	Nom. Pipe Size	Schedules	Min bore of searing		Pressure Rating (psi)							Max Bending Capacity (6)	Pressure rating (bar)							Max Bending Capacity (6)	
			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
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	278,75	
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			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	392	385	367	760,043
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	904,433	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	1,252,517	
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	1,206,835	
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 sealing 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

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

Techlok size	Nom. Pipe Size	Schedules	Min bore of sealing		Pressure Rating (psi)							Max Bending Capacity (°)	Pressure rating (bar)							Max Bending Capacity (°)
			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
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	1,026	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	1,026	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	1,192	14,713
H2in14		XXS	1.61	40.9	26,987	25,837	24,898	24,115	22,940	21,609	20,200	11,732	1,843	1,774	1,717	1,667	1,596	1,516	1,430	16,125
H2in13	3 in	160	1.50	38.1	29,003	27,768	26,758	25,916	24,654	23,224	21,709	12,378	1,981	1,906	1,845	1,791	1,715	1,629	1,536	17,013
H3in27		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	11,232	10,685	10,065	9,409	12,662	859	826	800	776	744	706	666	17,403
H3in25		160	2.67	67.9	17,181	16,449	15,851	15,353	14,605	13,757	12,860	15,463	1,173	1,129	1,093	1,061	1,016	965	910	21,252
H3in23	4 in	XXS	2.38	60.3	21,022	20,126	19,394	18,785	17,870	16,833	15,735	16,981	1,436	1,382	1,337	1,298	1,243	1,181	1,114	23,339
H3in20		160	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	1,346	25,529
H4in40		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	721	700	670	637	600	31,663
H4in34	6 in	160	3.69	93.7	14,538	14,284	13,765	13,332	12,683	11,947	11,168	27,481	998	981	949	922	882	838	790	37,770
H4in31		XXS	3.25	82.6	18,503	18,343	17,676	17,120	16,286	15,341	14,341	31,656	1,273	1,259	1,219	1,183	1,133	1,076	1,015	43,507
H4in27		160	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	1,118	45,486
H4in27		XXS	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	1,345	49,749
H8in56	8 in	80-80S-120 (5)	5.75	146.1	15,033	15,033	15,033	15,033	14,760	13,903	12,996	133,405	1,036	1,036	1,036	1,036	1,021	975	920	183,350
H8in52		160-XXS (5)	5.31	135.0	17,506	17,506	17,506	17,506	17,016	16,029	14,984	142,013	1,207	1,207	1,207	1,207	1,179	1,124	1,060	195,180
H8in46		160	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	1,254	197,676
H8in82		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	10 in	XS-80-80S	7.75	196.9	5,101	4,883	4,706	4,558	4,336	4,084	3,818	60,492	348	335	324	315	302	286	270	83,138
H8in72		120-140	7.25	184.2	7,650	7,324	7,058	6,836	6,503	6,126	5,726	84,938	523	503	487	473	452	430	405	116,737
H8in67		XXS-160	6.88	174.6	10,012	9,586	9,237	8,947	8,511	8,017	7,494	97,131	684	658	637	618	592	562	530	133,495
H8in64		160	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	12 in	160	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		Std-40-40S	10.25	260.4	2,998	2,871	2,766	2,679	2,549	2,401	2,244	80,253	205	197	191	185	177	168	159	110,299
H10in97		XS-60-80-80S	9.88	250.8	4,155	3,978	3,834	3,713	3,532	3,327	3,110	104,200	284	273	264	257	246	233	220	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	14 in	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		160	8.25	209.6	10,132	10,132	10,132	10,132	10,027	9,445	8,829	193,270	699	699	699	699	693	662	625	265,627
H10in76		160	7.75	196.9	11,413	11,413	11,413	11,413	11,413	11,143	10,604	219,060	787	787	787	787	787	783	750	301,072
H12in120	16 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		100	11.25	285.8	6,271	6,004	5,786	5,604	5,331	5,022	4,694	240,240	428	412	399	387	371	352	332	330,181
H12in106		XXS-120-140	10.75	273.1	7,610	7,610	7,549	7,311	6,955	6,552	6,125	277,132	525	524	520	505	484	460	433	380,885
H12in102	18 in	N.a.	10.25	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		160	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		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		XS	13.00	330.2	6,439	6,371	6,139	5,946	5,657	5,328	4,981	393,473	443	437	423	411	394	374	353	540,782
H14in124	20 in	80-100	12.50	317.5	6,881	6,881	6,881	6,881	6,881	6,687	6,250	453,755	474	474	474	474	474	465	442	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		160	11.25	285.8	8,519	8,519	8,519	8,519	8,519	8,519	8,153	585,810	587	587	587	587	587	587	572	805,126
H14in106	22 in	160	10.75	273.1	9,300	9,300	9,300	9,300	9,300	9,300	8,900	586,122	641	641	641	641	641	641	624	805,555
H16in152		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	14.00	355.6	9,289	9,289	9,289	9,289	9,289	9,289	8,967	800,237	640	640	640	640	622	592	559	1,099,831
H16in137	24 in	120	13.88	352.4	9,452	9,452	9,452	9,452	9,356	8,814	8,239	818,851	652	652	652	652	646	618	583	1,125,414
H16in134		140	13.50	342.9	9,969	9,969	9,969	9,969	9,969	9,969	9,720	9,086	857,055	687	687	687	687	687	675	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		160	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
H18in170	26 in	160	11.25	285.8	14,191	14,191	14,191	14,191	14,191	14,191	13,581	1,099,879	978	978	978	978	978	978	952	1,511,653
H18in160		40-60	17.00	431.8	4,387	4,200	4,047	3,920	3,729	3,512	3,283	543,749	300	288	279	271	259	246	232	747,318
H18in160		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	99



## Standard Duty Series

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 Size	Schedules	Min bore of sealing		Pressure Rating (psi)							Max Bending Capacity (6)	Pressure rating (bar)							Max Bending Capacity (6)	
			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
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	1,400	1,163	
1in4	1.5 in		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	1,731	1,160	
1.5in14		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		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	1,298	4,482	
2in20	2 in	Std-40-40S	2.06	52.4	10,258	10,258	9,987	9,672	9,201	8,668	8,102	3,145	707	705	689	669	640	608	573	4,322	
2in20		XS-80-80S	2.06	52.4	10,258	10,258	9,987	9,672	9,201	8,668	8,102	3,145	707	705	689	669	640	608	573	4,322	
2in16		160	1.87	47.4	13,689	13,689	13,326	12,907	12,279	11,566	10,812	3,796	944	941	919	892	854	811	765	5,217	
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	1,045	6,405	
2in13			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	1,367	1,309	1,243	1,173	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			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	1,237	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	5 in		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	1,193	31,650	
5in52		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	1,067	65,341	
5in31			3.25	82.6	20,243	20,243	20,243	20,243	20,243	20,243	20,191	44,450	1,396	1,396	1,396	1,396	1,396	1,393	1,336	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	10,110	9,630	9,002	58,164	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	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	1,143	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	1,211	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	686	686	686	686	661	175,445	
8in62			6.07	154.1	12,610	12,610	12,610	12,610	12,610	12,610	12,068	155,190	869	869	869	869	869	869	846	213,290	
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 Size	Schedules	Min bore of sealing		Pressure Rating (psi)							Max Bending Capacity <sup>(6)</sup>	Pressure rating (bar)							Max Bending Capacity <sup>(6)</sup>	
			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
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	16in	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		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	18in	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		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	20in	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	24in	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	24in	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	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	360	351	334	1,307,080
L24in225		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	229	223	2,205,315
L24in220	24in	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	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	





## Heavy Duty Series

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 Size	Schedules	Min bore of sealing		Pressure Rating (psi)							Max Bending Capacity (°)	Pressure rating (bar)							Max Bending Capacity (°)	
			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
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	1,111	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	1,366	1,334	1,296	1,241	1,178	1,111	15,159	
H2in16		160	1.87	47.4	23,099	23,099	22,487	21,780	20,719	19,517	18,244	11,598	1,593	1,588	1,550	1,506	1,442	1,369	1,291	15,939	
H2in14		XXS	1.61	40.9	27,706	27,706	26,973	26,124	24,852	23,410	21,883	12,710	1,910	1,904	1,860	1,806	1,729	1,642	1,549	17,468	
H2in13	3 in	160	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	1,664	18,430	
H3in27		Std-40-40S	3.06	77.8	12,905	12,905	12,563	12,168	11,576	10,904	10,193	13,718	890	887	866	841	805	765	721	18,853	
H3in27		XS-80-80S	3.06	77.8	12,905	12,905	12,563	12,168	11,576	10,904	10,193	13,718	890	887	866	841	805	765	721	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	4 in	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	1,206	25,283	
H3in20		Std-40-40S	2.06	52.4	26,089	26,089	25,398	24,599	23,401	22,043	20,606	20,123	1,799	1,793	1,751	1,700	1,628	1,546	1,458	27,656	
H4in40		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	
H4in40		160	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	6 in	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		XXS	3.25	82.6	18,503	18,503	18,503	18,503	17,643	16,620	15,536	34,294	1,276	1,276	1,276	1,276	1,227	1,166	1,100	47,133	
H4in27		Std-40-40S	3.06	77.8	20,725	20,725	20,725	20,424	19,429	18,302	17,109	35,854	1,429	1,429	1,429	1,410	1,352	1,284	1,211	49,277	
H4in25		XS-80-80S	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	1,457	49,775	
H8in56	8 in	80-80S-120 <sup>(5)</sup>	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		160-XXS <sup>(5)</sup>	5.31	135.0	17,506	17,506	17,506	17,506	17,506	17,365	16,232	149,785	1,207	1,207	1,207	1,207	1,207	1,200	1,149	205,862	
H8in46		Std-40-40S	5.31	135.0	21,696	21,696	21,696	21,696	21,696	21,696	20,528	19,189	143,829	1,496	1,496	1,496	1,496	1,496	1,438	1,358	197,676
H8in82		XS-80-80S	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	10 in	160	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		XXS-160	7.25	184.2	7,854	7,854	7,646	7,406	7,045	6,636	6,203	92,016	542	540	527	512	490	465	439	126,465	
H8in67		Std-40-40S	6.88	174.6	10,093	10,093	10,007	9,692	9,220	8,685	8,119	105,225	696	695	690	670	642	609	575	144,619	
H8in64		XS-80-80S	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	12 in	160	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	181,841	
H10in102		Std-40-40S	10.25	260.4	3,078	3,078	2,997	2,902	2,761	2,601	2,431	86,941	212	212	207	201	192	182	172	119,490	
H10in97		XS-60-80-80S	9.88	250.8	4,266	4,266	4,153	4,023	3,827	3,605	3,370	112,884	294	293	286	278	266	253	238	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	14 in	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		160	8.50	215.9	9,571	9,571	9,571	9,571	9,470	9,200	8,339	199,050	660	660	660	660	654	626	590	273,571	
H10in82		Std-40-40S	8.25	209.6	10,132	10,132	10,132	10,132	10,132	10,132	9,565	209,376	699	699	699	699	699	699	699	674	287,763
H10in76		XS-80-80S	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	16 in	Std-40-40S	12.00	304.8	4,027	4,027	3,921	3,797	3,613	3,403	3,181	186,320	278	277	270	263	251	239	225	256,075	
H12in116		XS-80-80S	11.75	298.5	4,744	4,744	4,618	4,473	4,255	4,008	3,747	209,548	327	326	318	309	296	281	265	287,998	
H12in112		100	11.25	285.8	6,439	6,439	6,268	6,071	5,775	5,440	5,085	260,260	444	443	432	420	402	382	360	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	18 in	N.a.	10.25	260.4	8,341	8,341	8,341	8,341	8,341	8,341	7,982	340,874	575	575	575	575	575	575	560	468,491	
H12in97		Std-40-40S	9.88	250.8	8,961	8,961	8,961	8,961	8,961	8,961	8,576	373,048	618	618	618	618	618	618	601	512,710	
H14in134		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	444	426	405	382	585,847
H14in124	20 in	80-100	12.50	317.5	6,881	6,881	6,881	6,881	6,881	6,881	6,585	491,568	474	474	474	474	474	474	462	675,601	
H14in120		120	12.00	304.8	7,520	7,520	7,520	7,520	7,520	7,520	7,197	545,124	518	518	518	518	518	518	505	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	
H16in106	22 in	Std-40-40S	10.75	273.1	9,300	9,300	9,300	9,300	9,300	9,300	8,900	586,122	641	641	641	641	641	641	624	805,555	
H16in152		XS-40-60	15.25	387.4	6,807	6,807	6,626	6,418	6,105	5,751	5,376	696,265	469	468	457	444	425	403	380	919,825	
H16in144		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	9,289	9,150	855,454	640	640	640	640	640	634	605	1,191,484	
H16in137	24 in	120	13.88	352.4	9,452	9,452	9,452	9,452	9,452	9,452	8,925	887,089	652	652	652	652	652	652	629	1,219,198	
H16in134		140	13.50	342.9	9,969	9,969	9,969	9,969	9,969	9,969											



## Standard Duty Series

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 Size	Schedules	Min bore of sealing		Pressure Rating (psi)							Max Bending Capacity <sup>(6)</sup>	Pressure rating (bar)							Max Bending Capacity <sup>(6)</sup>	
					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
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 <sup>(4)</sup>	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	1,052	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	1,301	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		1.87	47.4	10,444	9,562	9,145	8,843	8,657	8,472	8,263	2,628	707	656	630	611	599	588	575	3,612	
2in14	XXS		1.61	40.9	14,262	13,058	12,487	12,075	11,822	11,568	11,283	3,226	965	896	861	835	818	802	785	4,434	
2in13				1.50	38.1	16,005	14,654	14,013	13,551	13,267	12,982	3,582	1,083	1,005	966	937	918	901	881	4,923	
3in27		Std-40-40S	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		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	
3in25		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	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				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	5 in		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		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	1,004	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 <sup>(4)</sup>	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 Size	Schedules	Min bore of sealing		Pressure Rating (psi)							Max Bending Capacity <sup>(6)</sup>	Pressure rating (bar)							Max Bending Capacity <sup>(6)</sup>
					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	
L14in134	14in	40	13.50	<b>342.9</b>	2,454	2,246	2,148	2,077	2,034	1,990	1,941	152,115	<b>166</b>	<b>154</b>	<b>148</b>	<b>144</b>	<b>141</b>	<b>138</b>	<b>135</b>	209,064
L14in130		XS	13.00	<b>330.2</b>	3,415	3,126	2,990	2,891	2,830	2,770	2,701	193,215	<b>231</b>	<b>214</b>	<b>206</b>	<b>200</b>	<b>196</b>	<b>192</b>	<b>188</b>	265,552
L14in124		80-100	12.50	<b>317.5</b>	4,489	4,110	3,931	3,801	3,721	3,641	3,552	233,259	<b>304</b>	<b>282</b>	<b>271</b>	<b>263</b>	<b>258</b>	<b>253</b>	<b>247</b>	320,587
L14in120		120	12.00	<b>304.8</b>	5,915	5,452	5,214	5,042	4,936	4,830	4,711	275,063	<b>401</b>	<b>374</b>	<b>359</b>	<b>349</b>	<b>342</b>	<b>335</b>	<b>328</b>	378,041
L14in116		140	11.75	<b>298.5</b>	6,136	5,826	5,571	5,388	5,274	5,161	5,034	290,521	<b>418</b>	<b>400</b>	<b>384</b>	<b>372</b>	<b>365</b>	<b>358</b>	<b>350</b>	399,287
L14in112	160	11.25	<b>285.8</b>	6,701	6,353	6,075	5,875	5,751	5,628	5,489	334,319	<b>457</b>	<b>436</b>	<b>419</b>	<b>406</b>	<b>398</b>	<b>390</b>	<b>382</b>	459,482	
L16in152	16in	XS-40-60	15.25	<b>387.4</b>	2,821	2,583	2,470	2,389	2,338	2,288	2,232	253,934	<b>191</b>	<b>177</b>	<b>170</b>	<b>165</b>	<b>162</b>	<b>159</b>	<b>155</b>	349,002
L16in144		80	14.50	<b>368.3</b>	4,201	3,846	3,678	3,557	3,482	3,408	3,324	334,058	<b>284</b>	<b>264</b>	<b>254</b>	<b>246</b>	<b>241</b>	<b>236</b>	<b>231</b>	459,122
L16in140		100	14.00	<b>355.6</b>	4,734	4,334	4,145	4,008	3,924	3,840	3,745	384,462	<b>320</b>	<b>297</b>	<b>286</b>	<b>277</b>	<b>272</b>	<b>266</b>	<b>261</b>	528,397
L16in137		120	13.88	<b>352.4</b>	4,813	4,407	4,214	4,075	3,989	3,904	3,808	397,703	<b>326</b>	<b>302</b>	<b>291</b>	<b>282</b>	<b>276</b>	<b>271</b>	<b>265</b>	546,596
L16in134		140	13.50	<b>342.9</b>	5,062	4,634	4,432	4,285	4,195	4,105	4,004	424,881	<b>342</b>	<b>318</b>	<b>306</b>	<b>296</b>	<b>290</b>	<b>285</b>	<b>279</b>	583,949
L16in130	160	13.00	<b>330.2</b>	5,425	4,967	4,750	4,593	4,496	4,400	4,292	414,952	<b>367</b>	<b>341</b>	<b>327</b>	<b>318</b>	<b>311</b>	<b>305</b>	<b>299</b>	570,302	
L18in170	18in	40-60	17.00	<b>431.8</b>	3,105	2,843	2,719	2,629	2,574	2,519	2,456	384,528	<b>210</b>	<b>195</b>	<b>187</b>	<b>182</b>	<b>178</b>	<b>175</b>	<b>171</b>	528,488
L18in160		80-100	16.00	<b>406.4</b>	3,861	3,861	3,701	3,579	3,504	3,428	3,344	527,783	<b>266</b>	<b>265</b>	<b>255</b>	<b>247</b>	<b>242</b>	<b>238</b>	<b>233</b>	725,376
L18in152		120-140	15.25	<b>387.4</b>	4,240	4,227	4,042	3,909	3,827	3,745	3,652	561,582	<b>292</b>	<b>290</b>	<b>279</b>	<b>270</b>	<b>265</b>	<b>260</b>	<b>254</b>	771,828
L18in144		160	14.50	<b>368.3</b>	4,678	4,637	4,434	4,288	4,198	4,108	4,007	544,141	<b>322</b>	<b>318</b>	<b>306</b>	<b>296</b>	<b>291</b>	<b>285</b>	<b>279</b>	747,857
L20in192	20in	40	19.25	<b>489.0</b>	3,239	2,965	2,836	2,742	2,685	2,627	2,562	582,887	<b>219</b>	<b>203</b>	<b>196</b>	<b>190</b>	<b>186</b>	<b>182</b>	<b>178</b>	801,109
L20in185		60	18.63	<b>473.1</b>	3,426	3,137	3,000	2,901	2,840	2,779	2,711	678,326	<b>232</b>	<b>215</b>	<b>207</b>	<b>201</b>	<b>197</b>	<b>193</b>	<b>189</b>	932,278
L20in180		80-100	18.00	<b>457.2</b>	3,669	3,359	3,212	3,106	3,041	2,976	2,902	709,390	<b>248</b>	<b>230</b>	<b>221</b>	<b>215</b>	<b>210</b>	<b>206</b>	<b>202</b>	974,973
L20in170		120-140	17.00	<b>431.8</b>	4,068	3,725	3,562	3,444	3,372	3,300	3,218	683,663	<b>275</b>	<b>255</b>	<b>246</b>	<b>238</b>	<b>233</b>	<b>229</b>	<b>224</b>	939,613
L20in160	160	16.00	<b>406.4</b>	4,553	4,168	3,986	3,855	3,774	3,693	3,602	658,406	<b>308</b>	<b>286</b>	<b>275</b>	<b>266</b>	<b>261</b>	<b>256</b>	<b>251</b>	904,901	
L24in225	24in	40	22.63	<b>574.7</b>	3,325	3,325	3,308	3,199	3,131	3,064	2,989	1,110,868	<b>229</b>	<b>229</b>	<b>228</b>	<b>221</b>	<b>217</b>	<b>213</b>	<b>208</b>	1,526,757
L24in220		60-80	22.00	<b>558.8</b>	3,532	3,532	3,506	3,390	3,319	3,248	3,168	1,268,315	<b>244</b>	<b>243</b>	<b>242</b>	<b>234</b>	<b>230</b>	<b>225</b>	<b>220</b>	1,743,149
L24in210		100-120	21.00	<b>533.4</b>	3,870	3,870	3,818	3,692	3,615	3,537	3,450	1,343,217	<b>267</b>	<b>266</b>	<b>263</b>	<b>255</b>	<b>250</b>	<b>245</b>	<b>240</b>	1,846,093
L24in200		140-160	20.00	<b>508.0</b>	4,262	4,262	4,180	4,042	3,957	3,873	3,777	1,292,054	<b>294</b>	<b>293</b>	<b>288</b>	<b>279</b>	<b>274</b>	<b>269</b>	<b>263</b>	1,775,775





## Heavy Duty Series

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 Size	Schedules	Min bore of sealing		Pressure Rating (psi)							Max Bending Capacity (°)	Pressure rating (bar)							Max Bending Capacity (°)	
					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
H2in20	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		XS-80-80S	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
H2in16		160	1.87	47.4	17,624	16,136	15,431	14,922	14,608	14,295	13,943	8,029	1,193	1,107	1,064	1,032	1,011	992	971		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	1,164		12,094
H2in13	3 in	160	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	1,251		12,760
H3in27		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		XS-80-80S	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
H3in25		160	2.67	67.9	13,458	12,322	11,784	11,395	11,156	10,916	10,647	11,597	911	845	812	788	772	757	741		15,939
H3in23	4 in	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		Std-40-40S	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	1,096		19,146
H4in40		XS-80-80S	4.06	103.2	8,879	8,129	7,774	7,518	7,360	7,202	7,024	17,278	601	558	536	520	509	500	489		23,747
H4in40		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	6 in	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	844	826		32,630
H4in27		Std-40-40S	3.06	77.8	16,527	15,131	14,470	13,993	13,699	13,405	13,075	24,822	1,118	1,038	998	967	948	930	910		34,115
H4in25		XS-80-80S	2.67	67.9	19,891	18,212	17,416	16,841	16,488	16,134	15,736	27,148	1,346	1,249	1,201	1,164	1,141	1,119	1,095		37,312
H8in56		160	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	8 in	Std-40-40S	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		160-XXS <sup>(5)</sup>	5.31	135.0	18,537	16,972	16,230	15,695	15,365	15,036	14,665	115,859	1,254	1,164	1,119	1,085	1,063	1,043	1,021		159,235
H8in82		Std-40-40S	8.25	209.6	2,444	2,238	2,140	2,069	2,026	1,982	1,933	34,171	165	153	148	143	140	138	135		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	10 in	160	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		XXS-160	6.88	174.6	7,843	7,181	6,867	6,640	6,501	6,362	6,205	72,848	531	492	473	459	450	441	432		100,121
H8in64		160	6.50	165.1	10,066	9,216	8,814	8,523	8,344	8,165	7,963	82,777	681	632	608	589	577	566	554		113,767
H8in62		Std-40-40S	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
H10in102	12 in	XS-60-80-80S	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		120-100	9.88	250.8	3,255	2,980	2,850	2,756	2,698	2,640	2,575	78,150	220	204	196	191	187	183	179		107,408
H10in94		XXS-140	9.50	241.3	4,319	3,954	3,782	3,657	3,580	3,503	3,417	95,797	292	271	261	253	248	243	238		131,662
H10in87		160	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	14 in	Std-40-40S	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		XS-60-80-80S	8.25	209.6	9,240	8,460	8,090	7,823	7,659	7,495	7,310	144,953	625	580	558	541	530	520	509		199,220
H10in76		120-100	7.75	196.9	11,097	10,160	9,716	9,395	9,198	9,001	8,779	164,295	751	697	670	650	637	624	611		225,804
H12in120		XXS-160	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	16 in	100	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		XXS-120-140	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		N.a.	10.75	273.1	6,409	5,868	5,612	5,427	5,313	5,199	5,071	207,849	434	402	387	375	368	361	353		285,664
H12in102		160	10.25	260.4	8,163	7,474	7,147	6,912	6,766	6,621	6,458	235,990	552	513	493	478	468	459	450		324,340
H12in97	18 in	Std-40-40S	9.88	250.8	8,961	8,006	7,621	7,384	7,233	7,079	6,919	258,264	615	604	581	563	552	541	530		354,953
H14in134		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		XS	13.00	330.2	5,213	4,772	4,564	4,413	4,321	4,228	4,124	295,105	353	327	315	305	299	293	287		405,587
H14in124		80-100	12.50	317.5	6,541	5,989	5,727	5,538	5,422	5,306	5,175	340,316	443	411	395	383	375	368	360		467,724
H14in120	20 in	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		160	11.25	285.8	8,519	8,519	8,519	8,519	8,519	8,519	8,519	439,358	587	587	587	587	587	587	572		603,845
H14in106		XS-40-60	10.75	273.1	9,300	9,300	9,300	9,300	9,300	9,300	9,300	453,314	641	641	641	641	641	641	624		623,027
H16in152	22 in	80	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		100	14.50	368.3	6,929	6,344	6,067	5,867	5,743	5,620	5,482	547,932	469	435	418	406	398	390	382		753,068
H16in140		120	14.00	355.6	8,263	7,565	7,235	6,996	6,849	6,702	6,537	600,178	559	519	499	484	474	465	455		824,874
H16in137		140	13.88	352.4	8,622	7,894	7,549	7,300	7,147	6,993	6,821	614,138	583	541	520	505	495	485	475		844,060
H16in134	24 in	160	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		Std-40-40S	13.00	330.2	10,555	9,663	9,241	8,936	8,749	8,561	8,350	687,649	714	663	637	618	606	594	581		945,093
H16in120		XS-60-80-80S	12.00	304.8	12,52																



## Standard Duty Series

Hub material - ANSI Material Group 2.2 16Cr 12Ni 2Mo steel				A182 F316/F316H, A351 CF8M			
Clamp material :		Low alloy (AISI 4130/40)		Corrosion Allowance :		Zero	

Techlok size	Nom. Pipe Size	Schedules	Min bore of sealing		Pressure Rating (psi)							Max Bending Capacity (6)	Pressure rating (bar)							Max Bending Capacity (6)
			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	1.5 in	Std-40-40S	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		XS-80-80S	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		160	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		XXS	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
1.5in11		160	1.13	28.6	13,247	11,392	10,288	9,449	8,787	8,301	7,992	1,604	885	776	709	656	614	582	559	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	2,269
2in20		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	2,657
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		160	1.50	38.1	11,956	10,282	9,286	8,529	7,931	7,492	7,213	2,541	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		160	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	7,012	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		160	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	5 in	XXS	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		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	6 in	Std-40-40S	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		XS-80-80S	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		160	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		XXS	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		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	8 in	Std-40-40S	5.50	139.7	6,117	5,261	4,751	4,364	4,058	3,833	3,691	28,168	409	358	328	303	284	269	258	38,714
6in52		XS-80-80S	5.31	135.0	7,101	6,107	5,515	5,065	4,710	4,450	4,284	30,136	474	416	380	352	329	312	300	41,419
6in46		160	4.75	120.7	9,232	7,940	7,170	6,586	6,124	5,786	5,570	35,633	617	541	494	457	428	405	390	48,973
6in42		XXS	4.19	106.4	11,213	9,643	8,709	7,999	7,438	7,027	6,765	40,864	749	657	600	555	520	492	473	56,163
6in40		160	4.06	103.2	11,997	10,317	9,317	8,558	7,958	7,518	7,238	40,940	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		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	8 in	160	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		XXS	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

## Light Duty Series

Techlok size	Nom. Pipe Size	Schedules	Min bore of sealing		Pressure Rating (psi)							Max Bending Capacity (6)	Pressure rating (bar)							Max Bending Capacity (6)
					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	
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
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



## Heavy Duty Series

Hub material - ANSI Material Group 2.2 16Cr 12Ni 2Mo steel		A182 F316/F316H, A351 CF8M	
Clamp material :	Low alloy (AISI 4130/40)	Corrosion Allowance :	Zero

Techlok size	Nom. Pipe Size	Schedules	Min bore of sealing		Pressure Rating (psi)							Max Bending Capacity (°)	Pressure rating (bar)							Max Bending Capacity (°)
			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
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		160	1.87	47.4	12,826	11,030	9,961	9,149	8,508	8,038	7,738	5,598	857	752	687	635	595	563	541	7,694
H2in14		XXS	1.61	40.9	15,308	13,165	11,889	10,920	10,154	9,593	9,236	6,093	1,023	897	820	758	710	672	646	8,375
H2in13	3 in	160	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		Std-40-40S	3.06	77.8	7,314	6,290	5,681	5,218	4,852	4,584	4,413	6,777	489	429	392	362	339	321	309	9,314
H3in27		XS-80-80S	3.06	77.8	7,314	6,290	5,681	5,218	4,852	4,584	4,413	6,777	489	429	392	362	339	321	309	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	4 in	XXS	2.38	60.3	11,879	10,216	9,226	8,474	7,880	7,444	7,167	8,845	794	696	636	588	551	522	501	12,156
H3in20		Std-40-40S	2.06	52.4	14,251	12,256	11,068	10,166	9,453	8,931	8,598	9,612	952	835	763	706	661	626	602	13,211
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
H4in40		160	3.69	93.7	8,409	7,231	6,531	5,998	5,578	5,269	5,073	14,425	562	493	450	416	390	369	355	19,825
H4in31	6 in	XXS	3.25	82.6	10,681	9,186	8,295	7,619	7,085	6,693	6,444	16,428	714	626	572	529	495	469	451	22,578
H4in27		Std-40-40S	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		XS-80-80S	2.67	67.9	14,025	12,062	10,893	10,005	9,303	8,789	8,462	18,609	937	822	751	695	650	616	592	25,575
H8in56		160-XXS <sup>(5)</sup>	5.75	146.1	9,459	8,134	7,346	6,747	6,274	5,927	5,707	68,468	632	554	506	469	438	415	399	94,101
H8in52	8 in	Std-40-40S	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		XS-80-80S	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		160	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		XXS	7.75	196.9	2,872	2,470	2,231	2,049	1,905	1,800	1,733	32,592	192	168	154	142	133	126	121	44,793
H8in72	10 in	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		Std-40-40S	6.50	165.1	6,997	6,017	5,434	4,991	4,641	4,384	4,221	57,051	468	410	375	347	324	307	295	78,410
H8in62		XS-80-80S	6.07	154.1	8,499	7,309	6,601	6,062	5,637	5,326	5,128	62,879	568	498	455	421	394	373	359	86,420
H10in102	12 in	160	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		Std-40-40S	9.88	250.8	2,330	2,004	1,810	1,662	1,546	1,460	1,406	55,536	156	137	125	115	108	102	98	76,327
H10in94		XS-60-80-80S	9.50	241.3	3,054	2,626	2,372	2,178	2,026	1,914	1,842	67,185	204	179	164	151	142	134	129	92,338
H10in94		120-100	8.88	225.4	4,519	3,886	3,509	3,223	2,997	2,832	2,726	84,967	302	265	242	224	209	198	191	116,777
H10in87	14 in	XXS-140	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
H10in84		160	8.25	209.6	6,379	5,486	4,954	4,550	4,231	3,997	3,848	99,612	426	374	342	316	296	280	269	136,905
H10in82		Std-40-40S	7.75	196.9	7,674	6,600	5,960	5,474	5,091	4,809	4,630	112,325	513	450	411	380	356	337	324	154,378
H12in120		XS-80-80S	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	16 in	100	11.75	298.5	2,551	2,194	1,981	1,820	1,692	1,598	1,539	101,552	170	149	137	126	118	112	108	139,530
H12in112		XXS	11.25	285.8	3,425	2,946	2,660	2,443	2,272	2,146	2,066	125,095	229	201	183	170	159	150	145	171,929
H12in106		120-140	10.75	273.1	4,434	3,813	3,443	3,163	2,941	2,778	2,675	143,240	296	260	237	220	206	195	187	196,867
H12in102		N.a.	10.25	260.4	5,613	4,827	4,359	4,004	3,723	3,517	3,396	161,751	375	329	301	278	260	246	237	222,308
H12in97	18 in	160	9.88	250.8	6,629	5,701	5,148	4,728	4,397	4,154	3,989	176,436	443	388	355	328	307	291	280	242,491
H14in134		40	13.50	342.9	2,834	2,437	2,201	2,021	1,880	1,776	1,710	209,433	189	166	152	140	131	124	120	287,841
H14in130		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	20 in	120	12.00	304.8	5,560	4,782	4,318	3,966	3,688	3,484	3,355	257,666	372	326	298	275	258	244	235	354,131
H14in116		140	11.75	298.5	6,092	5,239	4,732	4,346	4,041	3,818	3,676	269,433	407	357	326	302	282	268	257	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		XXS	10.75	273.1	8,119	6,983	6,306	5,792	5,386	5,088	4,899	312,799	543	476	435	402	376	357	343	429,905
H16in152	22 in	XS-40-60	15.25	387.4	3,572	3,072	2,774	2,548	2,370	2,239	2,155	318,016	239	209	191	177	166	157	151	437,076
H16in144		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		120	13.88	352.4	5,869	5,048	4,559	4,187	3,893	3,678	3,541	417,570	392	344	314	291	272	258	248	573,900
H16in134	24 in	140	13.50	342.9	6,513	5,601	5,058	4,646	4,320	4,081	3,929	436,357	435	382	349	323	302	286	275	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		XXS	12.00	304.8	8,687	7,471	6,747	6,197	5,763	5,444	5,241	521,432	581	509	465	430	403	381	367	716,647
H16in112		160	11.25	285.8	9,854	8,474	7,653	7,029	6,536	6,175	5,945	567,573	658	577	528	488	457	433	416	780,062
H18in170	26 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		120-140	15.25	387.4	4,734	4,072	3,677	3,377	3,140	2,967	2,856	434,132	316	277	254	234	219	208	200	596,663
H18in144		160	14.50	368.3	6,042	5,196	4,692	4,310	4,008	3,786	3,645	490,119	404	354	324	299	280	265	255	673,610
H20in140	28 in	140	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





## Standard Duty Series

Hub material - ANSI Material Group 2.2 16Cr 12Ni 2Mo steel			A182 F316/F316H, A351 CF8M	
Clamp material :		Stainless Steel (A182 F304)		Corrosion Allowance : Zero

Techlok size	Nom. Pipe Size	Schedules	Min bore of sealing		Pressure Rating (psi)							Max Bending Capacity (6)	Pressure rating (bar)							Max Bending Capacity (6)
			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
1in11	1 in	Std-40-40S	1.13	<b>28.6</b>	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	<b>28.6</b>	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	<b>25.4</b>	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	<b>23.0</b>	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	<b>15.9</b>	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			0.50	<b>12.7</b>	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	<b>40.9</b>	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	<b>38.1</b>	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	1.50	<b>38.1</b>	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
1.5in11		XXS	1.13	<b>28.6</b>	13,247	11,392	10,288	9,449	8,787	8,301	7,992	1,575	885	776	709	656	614	582	559	2,165
2in20	2 in	Std-40-40S	2.06	<b>52.4</b>	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
2in20		XS-80-80S	2.06	<b>52.4</b>	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	<b>47.4</b>	8,169	6,938	6,217	5,745	5,384	5,107	4,885	1,933	545	472	429	399	376	357	343	2,657
2in14		XXS	1.61	<b>40.9</b>	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			1.50	<b>38.1</b>	11,956	10,282	9,286	8,529	7,931	7,492	7,213	2,514	799	701	640	592	554	525	505	3,455
3in27		Std-40-40S	3.06	<b>77.8</b>	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	<b>77.8</b>	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	<b>67.9</b>	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	<b>60.3</b>	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			2.06	<b>52.4</b>	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	<b>103.2</b>	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	<b>103.2</b>	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	<b>93.7</b>	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	<b>82.6</b>	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	<b>77.8</b>	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	<b>67.9</b>	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	<b>135.0</b>	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	<b>127.0</b>	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	<b>120.7</b>	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	<b>106.4</b>	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	<b>103.2</b>	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	<b>93.7</b>	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	<b>82.6</b>	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	<b>154.1</b>	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	<b>146.1</b>	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	<b>139.7</b>	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	<b>135.0</b>	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	<b>120.7</b>	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	<b>106.4</b>	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	<b>103.2</b>	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	<b>209.6</b>	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	<b>196.9</b>	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	<b>196.9</b>	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	<b>184.2</b>	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	<b>174.6</b>	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	<b>154.1</b>	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	<b>146.1</b>	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 bore of sealing		Pressure Rating (psi)							Max Bending Capacity (6)	Pressure rating (bar)							Max Bending Capacity (6)
			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
L14in134	14in	40	13.50	<b>342.9</b>	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	<b>330.2</b>	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	<b>317.5</b>	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	<b>304.8</b>	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	<b>298.5</b>	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	<b>285.8</b>	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	<b>387.4</b>	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	<b>368.3</b>	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	<b>355.6</b>	2,463	2,052	1,839	1,699	1,592	1,510	1,445	255,571	164	140	127	118	111	106	101	351



## Heavy Duty Series

Hub material - ANSI Material Group 2.2 16Cr 12Ni 2Mo steel				A182 F316/F316H, A351 CF8M			
Clamp material :		Stainless Steel (A182 F304)		Corrosion Allowance :		Zero	

Techlok size	Nom. Pipe Size	Schedules	Min bore of sealing		Pressure Rating (psi)								Max Bending Capacity (°)	Pressure rating (bar)								Max Bending Capacity (°)
			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		160	1.87	47.4	12,826	11,030	9,961	9,149	8,508	8,038	7,738	5,598	857	752	687	635	595	563	541	7,694		
H2in14		XXS	1.61	40.9	15,308	13,165	11,889	10,920	10,154	9,593	9,236	6,093	1,023	897	820	758	710	672	646	8,375		
H2in13	3 in	160	1.50	38.1	16,377	14,084	12,719	11,682	10,863	10,263	9,881	6,276	1,094	960	877	811	759	719	691	8,626		
H3in27		Std-40-40S	3.06	77.8	7,314	6,290	5,681	5,218	4,852	4,584	4,413	6,777	489	429	392	362	339	321	309	9,314		
H3in27		XS-80-80S	3.06	77.8	7,314	6,290	5,681	5,218	4,852	4,584	4,413	6,777	489	429	392	362	339	321	309	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	4 in	XXS	2.38	60.3	11,879	10,216	9,226	8,474	7,880	7,444	7,167	8,845	794	696	636	588	551	522	501	12,156		
H3in20		Std-40-40S	2.06	52.4	14,251	12,256	11,068	10,166	9,453	8,931	8,598	9,612	952	835	763	706	661	626	602	13,211		
H4in40		XS-80-80S	4.06	103.2	5,889	4,908	4,397	4,063	3,808	3,612	3,455	12,261	391	334	303	282	266	253	242	16,852		
H4in40		160	4.06	103.2	5,889	4,908	4,397	4,063	3,808	3,612	3,455	12,261	391	334	303	282	266	253	242	16,852		
H4in34	6 in	XXS	3.69	93.7	7,269	6,058	5,428	5,016	4,701	4,458	4,265	14,425	483	412	374	348	328	312	299	19,825		
H4in31		160	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		
H4in27		XXS	3.06	77.8	10,363	8,636	7,737	7,150	6,701	6,356	6,079	15,047	688	588	533	496	468	445	426	20,680		
H4in25		160	2.67	67.9	13,272	11,060	9,910	9,158	8,583	8,140	7,786	14,486	882	753	683	636	599	570	546	19,910		
H8in56	8 in	80-80S-120 (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		160-XXS (5)	5.31	135.0	8,753	7,294	6,536	6,040	5,660	5,369	5,135	59,914	581	497	451	419	395	376	360	82,345		
H8in46		160	5.31	135.0	10,848	9,040	8,100	7,485	7,015	6,654	6,364	57,532	721	616	558	519	490	466	446	79,070		
H8in82		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	10 in	XS-80-80S	7.75	196.9	2,872	2,470	2,231	2,049	1,905	1,800	1,733	32,592	192	168	154	142	133	126	121	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	5,047	4,205	3,768	3,482	3,263	3,095	2,961	50,521	335	286	260	242	228	217	208	69,435		
H8in64		160	6.50	165.1	5,610	4,675	4,189	3,871	3,628	3,441	3,291	57,051	373	318	289	269	253	241	231	78,410		
H8in62	12 in	160	6.07	154.1	6,397	5,330	4,776	4,414	4,136	3,923	3,753	62,879	425	363	329	306	289	275	263	86,420		
H10in102		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		XS-60-80-80S	9.88	250.8	2,330	2,004	1,810	1,662	1,546	1,460	1,406	55,536	156	137	125	115	108	102	98	76,327		
H10in94		120-100	9.50	241.3	3,054	2,626	2,372	2,178	2,026	1,914	1,842	67,185	204	179	164	151	142	134	129	92,338		
H10in87	14 in	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		160	8.50	215.9	4,786	3,988	3,573	3,302	3,095	2,935	2,808	94,973	318	272	246	229	216	205	197	130,528		
H10in82		160	8.25	209.6	5,066	4,222	3,783	3,496	3,276	3,107	2,972	99,612	336	287	261	243	229	217	208	136,905		
H10in76		160	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	16 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		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		XXS-120-140	10.75	273.1	3,805	3,171	2,841	2,625	2,461	2,334	2,232	143,240	253	216	196	182	172	163	157	196,867		
H12in102	18 in	N.a.	10.25	260.4	4,171	3,475	3,114	2,878	2,697	2,558	2,447	161,751	277	237	215	200	188	179	172	222,308		
H12in97		160	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		40	13.50	342.9	2,834	2,437	2,201	2,021	1,880	1,776	1,710	209,433	189	166	152	140	131	124	120	287,841		
H14in130		XS	13.00	330.2	3,220	2,683	2,404	2,221	2,082	1,975	1,889	203,346	214	183	166	154	145	138	132	279,475		
H14in124	20 in	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		120	12.00	304.8	3,760	3,133	2,807	2,594	2,431	2,306	2,206	250,197	250	213	194	180	170	161	155	343,866		
H14in116		140	11.75	298.5	3,900	3,250	2,912	2,691	2,522	2,392	2,288	247,008	259	221	201	187	176	167	160	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	22 in	160	10.75	273.1	4,650	3,875	3,472	3,209	3,007	2,852	2,728	234,449	309	264	239	223	210	200	191	322,222		
H16in152		XS-40-60	15.25	387.4	3,572	3,072	2,774	2,548	2,370	2,239	2,155	318,016	239	209	191	177	166	157	151	437,076		
H16in144		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		100	14.00	355.6	4,645	3,870	3,468	3,205	3,003	2,849	2,725	408,343	308	264	239	222	210	199	191	561,219		
H16in137	24 in	120	13.88	352.4	4,726	3,938	3,529	3,261	3,056	2,899	2,773	417,570	314	268	243	226	213	203	194	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		160	13.00	330.2	5,364	4,470	4,005	3,701	3,468	3,290	3,147	458,091	356	304	276	257	242	230	221	629,592		
H16in120		160	12.00	304.8	6,263	5,219	4,676	4,322	4,050	3,841	3,674	434,831	416	355	322	300	283	269	258	597,624		
H16in112	26 in	160	11.25	285.8	7,096	5,913	5,298	4,896	4,588	4,352	4,163	439,952	<									



## Standard Duty Series

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

Techlok size	Nom. Pipe Size	Schedules	Min bore of sealing		Pressure Rating (psi)							Max Bending Capacity (6)	Pressure rating (bar)							Max Bending Capacity (6)
			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	
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	1,617	1,222
1in4	1.5 in		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	1,993	1,160
1.5in14		Std-40-40S	1.61	40.9	15,569	13,845	12,863	12,264	11,881	11,473	10,898	2,443	1,047	946	887	849	824	799	766	3,357
1.5in13		XS-80-80S	1.50	38.1	18,155	16,144	14,999	14,301	13,854	13,379	12,709	2,855	1,221	1,104	1,034	990	961	932	894	3,924
1.5in13		160	1.50	38.1	18,155	16,144	14,999	14,301	13,854	13,379	12,709	2,855	1,221	1,104	1,034	990	961	932	894	3,924
1.5in11		XXS	1.13	28.6	28,701	25,522	23,711	22,608	21,901	21,150	20,091	3,476	1,931	1,745	1,635	1,565	1,519	1,473	1,413	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	4,915
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	1,157	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	1,275	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	1,046	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	1,310	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	5 in		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	1,244	32,963
5in52		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	7,011	6,792	6,559	6,230	30,281	580	541	507	485	471	457	438	41,618
5in46		160	4.75	120.7	9,560	9,560	9,560	9,200	8,913	8,607	8,176	34,889	659	659	659	636	618	599	575	47,950
5in42		XXS	4.19	106.4	12,164	12,164	12,164	12,164	12,164	12,164	11,641	44,528	839	839	839	839	839	839	816	61,198
5in40	6 in		4.06	103.2	12,886	12,886	12,886	12,886	12,886	12,332	45,656	888	888	888	888	888	888	888	865	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	1,067	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	1,358	61,091
6in62		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	1,143	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	1,211	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
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	869	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 Size	Schedules	Min bore of searing		Pressure Rating (psi)							Max Bending Capacity (lb)	Pressure rating (bar)							Max Bending Capacity (Nm)
			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	
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	674,741
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	319	310	301	289
L20in160	160	16.00	406.4	5,218	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 sealing 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

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

Techlok size	Nom. Pipe Size	Schedules	Min bore of sealing		Pressure Rating (psi)								Max Bending Capacity (°)	Pressure rating (bar)								Max Bending Capacity (°)
					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	
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		XXS	1.61	40.9	33,167	29,494	27,401	26,126	25,309	24,442	23,217	13,203	2,231	2,016	1,889	1,808	1,755	1,702	1633	18,145		
H2in13	3 in	160	1.50	38.1	35,483	31,552	29,314	27,950	27,076	26,148	24,838	13,883	2,387	2,157	2,021	1,935	1,878	1,821	1747	19,080		
H3in27		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		160	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		
H3in23	4 in	XXS	2.38	60.3	25,737	22,886	21,263	20,273	19,640	18,966	18,016	19,164	1,731	1,565	1,466	1,403	1,362	1,321	1267	26,338		
H3in20		Std-40-40S	2.06	52.4	30,877	27,457	25,509	24,322	23,562	22,754	21,614	20,826	2,077	1,877	1,759	1,683	1,634	1,584	1520	28,623		
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		
H4in40		160	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	6 in	XXS	3.69	93.7	14,538	14,538	14,538	14,351	13,902	13,426	12,753	31,254	1,002	1,002	1,002	990	964	935	897	42,955		
H4in31		Std-40-40S	3.25	82.6	18,503	18,503	18,503	18,229	17,659	17,054	16,199	35,594	1,276	1,276	1,276	1,258	1,225	1,187	1139	48,919		
H4in27		XS-80-80S	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		160	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	8 in	80-80S-120 (5)	5.75	146.1	15,033	15,033	15,033	15,033	15,033	15,033	14,346	148,348	1,036	1,036	1,036	1,036	1,036	1,036	1007	203,886		
H8in52		160-XXS (5)	5.31	135.0	17,506	17,506	17,506	17,506	17,506	17,353	16,483	149,785	1,207	1,207	1,207	1,207	1,207	1,199	1159	205,862		
H8in46		Std-40-40S	5.31	135.0	21,696	21,696	21,696	21,696	21,696	21,169	20,443	194,919	1,496	1,496	1,496	1,496	1,466	1,424	1366	197,676		
H8in82		XS-80-80S	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	10 in	120-140	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		XXS-160	7.25	184.2	9,128	8,158	7,579	7,227	7,001	6,761	6,422	96,496	615	558	523	500	485	471	452	132,623		
H8in67		Std-40-40S	6.88	174.6	10,093	10,093	9,830	9,372	9,079	8,768	8,329	109,463	696	694	678	649	630	611	586	150,443		
H8in64		XS-80-80S	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	12 in	160	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		Std-40-40S	10.25	260.4	3,700	3,291	3,057	2,915	2,824	2,727	2,590	94,571	249	225	211	202	196	190	182	129,977		
H10in97		XS-60-80-80S	9.88	250.8	5,048	4,489	4,171	3,977	3,852	3,720	3,534	120,328	340	307	288	275	267	259	249	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	14 in	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		Std-40-40S	8.25	209.6	10,132	10,132	10,132	10,132	10,132	10,132	9,674	215,826	699	699	699	699	699	699	699	296,628		
H10in76		XS-80-80S	7.75	196.9	11,413	11,413	11,413	11,413	11,413	11,413	10,922	243,371	787	787	787	787	787	787	766	334,485		
H12in120	16 in	160	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	303	292	284	272	302,314		
H12in112		100	11.25	285.8	6,970	6,599	6,131	5,845	5,663	5,469	5,195	271,040	475	451	423	405	393	381	365	372,512		
H12in106		XXS-120-140	10.75	273.1	7,610	7,610	7,610	7,567	7,330	7,079	6,724	310,354	525	525	525	522	508	493	473	426,544		
H12in102	18 in	N.a.	10.25	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		Std-40-40S	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		40	13.50	342.9	5,984	5,459	5,072	4,836	4,685	4,524	4,298	453,771	405	373	350	335	325	315	302	623,655		
H14in130		XS	13.00	330.2	6,439	6,439	6,439	6,150	5,958	5,754	5,465	440,584	444	444	444	426	413	401	384	605,530		
H14in124	20 in	80-100	12.50	317.5	6,881	6,881	6,881	6,881	6,881	6,881	6,585	505,259	474	474	474	474	474	474	462	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		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	22 in	Std-40-40S	10.75	273.1	9,300	9,300	9,300	9,300	9,300	9,300	8,900	586,122	641	641	641	641	641	641	624	805,555		
H16in152		XS-40-60	15.25	387.4	7,740	6,882	6,394	6,097	5,906	5,704	5,418	689,036	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		100	14.00	355.6	9,289	9,289	9,289	9,289	9,289	9,289	8,988	884,744	640	640	640	640	640	626	600	1,215,975		
H16in137	24 in	120	13.88	352.4	9,452	9,452	9,452	9,452	9,452	9,371	8,902	940,735	652	652	652	652	652	648	626	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		Std-40-40S	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	26 in	160	11.25	285.8	14,191	14,191	14,191	14,191	14,191	14,191	13,581	1,099,879	978	978	978	978	978	978	952	1,511,653		
H18in170		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		
H18in																						



## Standard Duty Series

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

Techlok size	Nom. Pipe Size	Schedules	Min bore of sealing		Pressure Rating (psi)							Max Bending Capacity <sup>(6)</sup>	Pressure rating (bar)							Max Bending Capacity <sup>(6)</sup>
			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
1in11	1 in	Std-40-40S	1.13	<b>28.6</b>	12,499	12,381	11,363	10,660	10,239	10,046	n.a.	646	<b>860</b>	<b>845</b>	<b>783</b>	<b>739</b>	<b>711</b>	<b>696</b>	n.a.	888
1in11		XS-80-80S	1.13	<b>28.6</b>	12,499	12,381	11,363	10,660	10,239	10,046	n.a.	646	<b>860</b>	<b>845</b>	<b>783</b>	<b>739</b>	<b>711</b>	<b>696</b>	n.a.	888
1in8		XS-80-80S <sup>(4)</sup>	1.00	<b>25.4</b>	15,180	15,180	15,180	14,743	14,160	13,893	n.a.	820	<b>1,047</b>	<b>1,047</b>	<b>1,047</b>	<b>1,019</b>	<b>984</b>	<b>963</b>	n.a.	1,127
1in7		160	0.91	<b>23.0</b>	18,603	18,603	18,603	18,222	17,501	17,171	n.a.	903	<b>1,283</b>	<b>1,283</b>	<b>1,283</b>	<b>1,258</b>	<b>1,216</b>	<b>1,190</b>	n.a.	1,241
1in5		XXS	0.63	<b>15.9</b>	36,431	35,620	32,689	30,668	29,456	28,900	n.a.	889	<b>2,499</b>	<b>2,432</b>	<b>2,254</b>	<b>2,126</b>	<b>2,046</b>	<b>2,003</b>	n.a.	1,222
1in4			0.50	<b>12.7</b>	49,814	43,899	40,287	37,796	36,302	35,617	n.a.	844	<b>3,345</b>	<b>2,997</b>	<b>2,778</b>	<b>2,620</b>	<b>2,521</b>	<b>2,469</b>	n.a.	1,160
1.5in14	1.5 in	Std-40-40S	1.61	<b>40.9</b>	17,849	16,887	15,497	14,539	13,964	13,701	n.a.	3,006	<b>1,216</b>	<b>1,153</b>	<b>1,068</b>	<b>1,008</b>	<b>970</b>	<b>950</b>	n.a.	4,132
1.5in13		XS-80-80S	1.50	<b>38.1</b>	20,616	19,692	18,072	16,954	16,284	15,977	n.a.	3,514	<b>1,407</b>	<b>1,344</b>	<b>1,246</b>	<b>1,175</b>	<b>1,131</b>	<b>1,107</b>	n.a.	4,829
1.5in13		160	1.50	<b>38.1</b>	20,616	19,692	18,072	16,954	16,284	15,977	n.a.	3,514	<b>1,407</b>	<b>1,344</b>	<b>1,246</b>	<b>1,175</b>	<b>1,131</b>	<b>1,107</b>	n.a.	4,829
1.5in11		XXS	1.13	<b>28.6</b>	35,089	31,130	28,569	26,802	25,743	25,257	n.a.	3,938	<b>2,359</b>	<b>2,125</b>	<b>1,970</b>	<b>1,858</b>	<b>1,788</b>	<b>1,751</b>	n.a.	5,412
2in20	2 in	Std-40-40S	2.06	<b>52.4</b>	13,289	13,289	13,289	12,555	12,059	11,831	n.a.	4,402	<b>916</b>	<b>916</b>	<b>916</b>	<b>870</b>	<b>838</b>	<b>820</b>	n.a.	6,049
2in20		XS-80-80S	2.06	<b>52.4</b>	13,289	13,289	13,289	12,555	12,059	11,831	n.a.	4,402	<b>916</b>	<b>916</b>	<b>916</b>	<b>870</b>	<b>838</b>	<b>820</b>	n.a.	6,049
2in16		160	1.87	<b>47.4</b>	16,652	16,652	16,652	16,529	15,876	15,576	n.a.	5,155	<b>1,148</b>	<b>1,148</b>	<b>1,148</b>	<b>1,140</b>	<b>1,103</b>	<b>1,080</b>	n.a.	7,085
2in14		XXS	1.61	<b>40.9</b>	22,024	22,024	22,024	21,956	21,088	20,690	n.a.	6,165	<b>1,518</b>	<b>1,518</b>	<b>1,518</b>	<b>1,514</b>	<b>1,465</b>	<b>1,434</b>	n.a.	8,473
2in13			1.50	<b>38.1</b>	25,438	25,438	25,438	24,191	23,234	22,796	n.a.	6,285	<b>1,754</b>	<b>1,754</b>	<b>1,754</b>	<b>1,675</b>	<b>1,614</b>	<b>1,580</b>	n.a.	8,638
3in27		Std-40-40S	3.06	<b>77.8</b>	11,579	10,204	9,365	8,786	8,438	8,279	n.a.	9,251	<b>777</b>	<b>697</b>	<b>646</b>	<b>609</b>	<b>586</b>	<b>574</b>	n.a.	12,714
3in27		XS-80-80S	3.06	<b>77.8</b>	11,579	10,204	9,365	8,786	8,438	8,279	n.a.	9,254	<b>777</b>	<b>697</b>	<b>646</b>	<b>609</b>	<b>586</b>	<b>574</b>	n.a.	12,718
3in25		160	2.67	<b>67.9</b>	15,047	15,047	15,047	15,047	14,885	14,604	n.a.	12,531	<b>1,037</b>	<b>1,037</b>	<b>1,037</b>	<b>1,037</b>	<b>1,028</b>	<b>1,012</b>	n.a.	17,222
3in23		XXS	2.38	<b>60.3</b>	18,993	18,993	18,993	18,993	18,993	18,694	n.a.	14,448	<b>1,310</b>	<b>1,310</b>	<b>1,310</b>	<b>1,310</b>	<b>1,310</b>	<b>1,295</b>	n.a.	19,857
3in20			2.06	<b>52.4</b>	24,702	24,702	24,702	24,702	23,863	23,413	n.a.	16,022	<b>1,703</b>	<b>1,703</b>	<b>1,703</b>	<b>1,703</b>	<b>1,656</b>	<b>1,623</b>	n.a.	22,020
4in40	4 in	Std-40-40S	4.06	<b>103.2</b>	7,543	6,647	6,100	5,723	5,497	5,393	n.a.	13,526	<b>506</b>	<b>454</b>	<b>421</b>	<b>397</b>	<b>382</b>	<b>374</b>	n.a.	18,590
4in40		XS-80-80S	4.06	<b>103.2</b>	7,543	6,647	6,100	5,723	5,497	5,393	n.a.	13,526	<b>506</b>	<b>454</b>	<b>421</b>	<b>397</b>	<b>382</b>	<b>374</b>	n.a.	18,590
4in34		160	3.69	<b>93.7</b>	11,764	11,764	10,810	10,141	9,740	9,557	n.a.	18,738	<b>811</b>	<b>803</b>	<b>745</b>	<b>703</b>	<b>677</b>	<b>662</b>	n.a.	25,754
4in31		XXS	3.25	<b>82.6</b>	14,972	14,972	14,972	14,972	14,972	14,972	n.a.	23,900	<b>1,032</b>	<b>1,032</b>	<b>1,032</b>	<b>1,032</b>	<b>1,032</b>	<b>1,032</b>	n.a.	32,848
4in27			3.06	<b>77.8</b>	16,770	16,770	16,770	16,770	16,770	16,770	n.a.	25,762	<b>1,156</b>	<b>1,156</b>	<b>1,156</b>	<b>1,156</b>	<b>1,156</b>	<b>1,156</b>	n.a.	35,406
4in25			2.67	<b>67.9</b>	21,479	21,479	21,479	21,479	21,479	21,479	n.a.	28,021	<b>1,481</b>	<b>1,481</b>	<b>1,481</b>	<b>1,481</b>	<b>1,481</b>	<b>1,481</b>	n.a.	38,512
5in52	5 in	Std-40-40S	5.31	<b>135.0</b>	7,714	6,803	6,244	5,858	5,626	5,520	n.a.	29,600	<b>518</b>	<b>464</b>	<b>430</b>	<b>406</b>	<b>391</b>	<b>383</b>	n.a.	40,682
5in50		XS-80-80S	5.00	<b>127.0</b>	8,559	8,559	8,559	8,312	7,983	7,832	n.a.	37,269	<b>590</b>	<b>590</b>	<b>590</b>	<b>574</b>	<b>554</b>	<b>543</b>	n.a.	51,222
5in46		160	4.75	<b>120.7</b>	9,560	9,560	9,560	9,560	9,560	9,560	n.a.	42,940	<b>659</b>	<b>659</b>	<b>659</b>	<b>659</b>	<b>659</b>	<b>659</b>	n.a.	59,016
5in42		XXS	4.19	<b>106.4</b>	12,164	12,164	12,164	12,164	12,164	12,164	n.a.	54,803	<b>839</b>	<b>839</b>	<b>839</b>	<b>839</b>	<b>839</b>	<b>839</b>	n.a.	75,320
5in40			4.06	<b>103.2</b>	12,886	12,886	12,886	12,886	12,886	12,886	n.a.	50,730	<b>888</b>	<b>888</b>	<b>888</b>	<b>888</b>	<b>888</b>	<b>888</b>	n.a.	69,722
5in34			3.69	<b>93.7</b>	15,905	15,905	15,905	15,905	15,905	15,905	n.a.	47,542	<b>1,097</b>	<b>1,097</b>	<b>1,097</b>	<b>1,097</b>	<b>1,097</b>	<b>1,097</b>	n.a.	65,341
5in31			3.25	<b>82.6</b>	20,243	20,243	20,243	20,243	20,243	20,243	n.a.	44,450	<b>1,396</b>	<b>1,396</b>	<b>1,396</b>	<b>1,396</b>	<b>1,396</b>	<b>1,396</b>	n.a.	61,091
6in62	6 in	Std-40-40S	6.07	<b>154.1</b>	7,896	7,757	7,119	6,679	6,414	6,293	n.a.	54,791	<b>542</b>	<b>530</b>	<b>491</b>	<b>463</b>	<b>446</b>	<b>436</b>	n.a.	75,303
6in56		XS-80-80S-120	5.75	<b>146.1</b>	9,280	9,280	9,280	9,280	9,280	9,280	n.a.	68,977	<b>640</b>	<b>640</b>	<b>640</b>	<b>640</b>	<b>640</b>	<b>640</b>	n.a.	94,801
6in54		120 <sup>(4)</sup>	5.50	<b>139.7</b>	10,110	10,110	10,110	10,110	10,110	10,110	n.a.	75,115	<b>697</b>	<b>697</b>	<b>697</b>	<b>697</b>	<b>697</b>	<b>697</b>	n.a.	103,237
6in52		160-XXS	5.31	<b>135.0</b>	10,806	10,806	10,806	10,806	10,806	10,806	n.a.	80,363	<b>745</b>	<b>745</b>	<b>745</b>	<b>745</b>	<b>745</b>	<b>745</b>	n.a.	110,450
6in46		XXS	4.75	<b>120.7</b>	13,392	13,392	13,392	13,392	13,392	13,392	n.a.	82,179	<b>923</b>	<b>923</b>	<b>923</b>	<b>923</b>	<b>923</b>	<b>923</b>	n.a.	112,945
6in42			4.19	<b>106.4</b>	17,039	17,039	17,039	17,039	17,039	17,039	n.a.	83,841	<b>1,175</b>	<b>1,175</b>	<b>1,175</b>	<b>1,175</b>	<b>1,175</b>	<b>1,175</b>	n.a.	115,230
6in40			4.06	<b>103.2</b>	18,051	18,051	18,051	18,051	18,051	18,051	n.a.	76,220	<b>1,245</b>	<b>1,245</b>	<b>1,245</b>	<b>1,245</b>	<b>1,245</b>	<b>1,245</b>	n.a.	104,755
8in82	8 in	Std-40-40S	8.25	<b>209.6</b>	6,164	5,432	4,985	4,677	4,492	4,407	n.a.	90,945	<b>414</b>	<b>371</b>	<b>344</b>	<b>324</b>	<b>312</b>	<b>305</b>	n.a.	124,993
8in76		XS-80-80S	7.75	<b>196.9</b>	7,928	7,928	7,516	7,051	6,773	6,645	n.a.	120,215	<b>547</b>	<b>543</b>	<b>518</b>	<b>489</b>	<b>470</b>	<b>461</b>	n.a.	165,222
8in76		100	7.75	<b>196.9</b>	7,928	7,928	7,516	7,051	6,773	6,645	n.a.	120,215	<b>547</b>	<b>543</b>	<b>518</b>	<b>489</b>	<b>470</b>	<b>461</b>	n.a.	165,222
8in72		120-140	7.25	<b>184.2</b>	8,998	8,998	8,998	8,998	8,998	8,998	n.a.	146,574	<b>620</b>	<b>620</b>	<b>620</b>	<b>620</b>	<b>620</b>	<b>620</b>	n.a.	201,448
8in67		XXS-160	6.88	<b>174.6</b>	9,949	9,949	9,949	9,949	9,949	9,949	n.a.	162,802	<b>686</b>	<b>686</b>	<b>686</b>	<b>686</b>	<b>686</b>	<b>686</b>	n.a.	223,751
8in62			6.07	<b>154.1</b>	12,610	12,610	12,610	12,610	12,610	12,610	n.a.	166,281	<b>869</b>	<b>869</b>	<b>869</b>	<b>869</b>	<b>869</b>	<b>869</b>	n.a.	228,534
8in56			5.75	<b>146.1</b>	14,739	14,739	14,739	14,739	14,739	14,739	n.a.	161,017	<b>1,016</b>	<b>1,016</b>	<b>1,016</b>	<b>1,016</b>	<b>1,016</b>	<b>1,016</b>	n.a.	221,299

## Light Duty Series

Techlok size	Nom. Pipe Size	Schedules	Min bore of sealing		Pressure Rating (psi)							Max Bending Capacity <sup>(6)</sup>	Pressure rating (bar)							Max Bending Capacity <sup>(6)</sup>
			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	
L14in134	14in	40	13.50	<b>342.9</b>	4,674	4,119	3,780	3,547	3,406	3,342	n.a.	287,309	<b>314</b>	<b>281</b>	<b>261</b>	<b>246</b>	<b>237</b>	<b>232</b>	n.a.	394,872
L14in130		XS	13.00	<b>330.2</b>	5,065	5,065	5,065	4,862	4,670	4,582	n.a.	359,978	<b>349</b>	<b>349</b>	<b>349</b>	<b>336</b>	<b>324</b>	<b>318</b>	n.a.	494,748
L14in124		80-100	12.50	<b>317.5</b>	5,413	5,413	5,413	5,413	5,413	5,413	n.a.	430,663	<b>373</b>	<b>373</b>	<b>373</b>	<b>373</b>	<b>373</b>	<b>373</b>	n.a.	591,895
L14in120		120	12.00	<b>304.8</b>	5,915	5,915	5,915	5,915	5,915	5,915	n.a.	484,303	<b>408</b>	<b>408</b>	<b>408</b>	<b>408</b>	<b>408</b>	<b>408</b>	n.a.	665,617
L14in116		140	11.75	<b>298.5</b>	6,136	6,136	6,136	6,136	6,136	6,136	n.a.	477,905	<b>423</b>	<b>423</b>	<b>423</b>	<b>423</b>	<b>423</b>	<b>423</b>	n.a.	656,824
L14in112	160	11.25	<b>285.8</b>	6,701	6,701	6,701	6,701	6,701	6,701	n.a.	490,745	<b>462</b>	<b>462</b>	<b>462</b>	<b>462</b>	<b>462</b>	<b>462</b>	n.a.	674,471	
L16in152	16in	XS-40-60	15.25	<b>387.4</b>	4,170	4,170	4,170	4,021	3,862	3,789	n.a.	473,514	<b>288</b>	<b>288</b>	<b>288</b>	<b>278</b>	<b>268</b>	<b>263</b>	n.a.	650,789
L16in144		80	14.50	<b>368.3</b>	4,600	4,600	4,600	4,600	4,600	n.a.	615,009	<b>317</b>	<b>317</b>	<b>317</b>	<b>317</b>	<b>317</b>	<b>317</b>	n.a.	845,257	
L16in140		100	14.00	<b>355.6</b>	4,925	4,925	4,925	4,925	4,925	4,925	n.a.	638,928	<b>340</b>	<b>340</b>	<b>340</b>	<b>340</b>	<b>340</b>	<b>340</b>	n.a.	878,131
L16in137		120	13.88	<b>352.4</b>	5,012	5,012	5,012	5,012	5,012	5,012	n.a.	638,928	<b>346</b>	<b>346</b>	<b>346</b>	<b>346</b>	<b>346</b>	<b>346</b>	n.a.	878,131
L16in134		140	13.50	<b>342.9</b>	5,286	5,286	5,286	5,286	5,286	5,286	n.a.	609,915	<b>364</b>	<b>364</b>	<b>364</b>	<b>364</b>	<b>364</b>	<b>364</b>	n.a.	838,256
L16in130	160	13.00	<b>320.2</b>	5,687	5,687	5,687	5,687	5,687	5,687	n.a.	595,662	<b>392</b>	<b>392</b>	<b>392</b>	<b>392</b>	<b>392</b>	<b>392</b>	n.a.	818,667	
L18in170	18in	40-60	17.00	<b>431.8</b>	3,427	3,427	3,427	3,427	3,427	3,427	n.a.	711,586	<b>236</b>	<b>236</b>	<b>236</b>	<b>236</b>	<b>236</b>	<b>236</b>	n.a.	977,991
L18in160		80-100	16.00	<b>406.4</b>	3,861	3,861	3,861	3,861	3,861	3,861	n.a.	727,634	<b>266</b>	<b>266</b>	<b>266</b>	<b>266</b>	<b>266</b>	<b>266</b>	n.a.	1,000,047
L18in152		120-140	15.25	<b>387.4</b>	4,240	4,240	4,240	4,240	4,240	4,240	n.a.	705,379	<b>292</b>	<b>292</b>	<b>292</b>	<b>292</b>	<b>292</b>	<b>292</b>	n.a.	969,460
L18in144		160	14.50	<b>368.3</b>	4,678	4,678	4,678	4,678	4,678	4,678	n.a.	683,473	<b>323</b>	<b>323</b>	<b>323</b>	<b>323</b>	<b>323</b>	<b>323</b>	n.a.	939,353
L20in192	20in	40	19.25	<b>489.0</b>	3,631	3,631	3,631	3,631	3,631	3,631	n.a.	1,072,275	<b>250</b>	<b>250</b>	<b>250</b>	<b>250</b>	<b>250</b>	<b>250</b>	n.a.	1,473,715
L20in185		60	18.63	<b>473.1</b>	3,849	3,849	3,849	3,849	3,849	3,849	n.a.	1,125,521	<b>265</b>	<b>265</b>	<b>265</b>	<b>265</b>	<b>265</b>	<b>265</b>	n.a.	1,546,895
L20in180		80-100	18.00	<b>457.2</b>	4,141	4,141	4,141	4,141	4,141	4,141	n.a.	1,095,238	<b>286</b>	<b>286</b>	<b>286</b>	<b>286</b>	<b>286</b>	<b>286</b>	n.a.	1,505,275
L20in170		120-140	17.00	<b>431.8</b>	4,631	4,631	4,631	4,631	4,631	4,631	n.a.	1,055,517	<b>319</b>	<b>319</b>	<b>319</b>	<b>319</b>	<b>319</b>	<b>319</b>	n.a.	1,450,683
L20in160	160	16.00	<b>406.4</b>	5,218	5,218	5,218	5,218	5,218	5,218	n.a.	1,016,523	<b>360</b>	<b>360</b>	<b>360</b>	<b>360</b>	<b>360</b>	<b>360</b>	n.a.	1,397,090	
L24in225	24in	40	22.63	<b>574.7</b>	3,325	3,325	3,325	3,325	3,325	3,325	n.a.	1,721,470	<b>229</b>	<b>229</b>	<b>229</b>	<b>229</b>	<b>229</b>	<b>229</b>	n.a.	2,365,957
L24in220		60-80	22.00	<b>558.8</b>	3,532	3,532	3,532	3,532	3,532	3,532	n.a.	1,682,985	<b>244</b>	<b>244</b>	<b>244</b>	<b>244</b>	<b>244</b>	<b>244</b>	n.a.	2,313,063
L24in210		100-120	21.00	<b>533.4</b>	3,870	3,870	3,870	3,870	3,870	3,870	n.a.	1,632,372	<b>267</b>	<b>267</b>	<b>267</b>	<b>267</b>	<b>267</b>	<b>267</b>	n.a.	2,243,502
L24in200		140-160	20.00	<b>508.0</b>	4,262	4,262	4,262	4,262	4,262	4,262	n.a.	1,570,195	<b>294</b>	<b>294</b>	<b>294</b>	<b>294</b>	<b>294</b>	<b>294</b>	n.a.	2,158,047







## Standard Duty Series

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 Size	Schedules	Min bore of sealing		Pressure Rating (psi)							Max Bending Capacity (6)	Pressure rating (bar)							Max Bending Capacity (6)	
			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
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	1,473	981	
1in4	1.5 in	160	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	1,815	1,053	
1.5in14		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	1,287	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	667	649	632	617	603	3,781	
2in16		160	1.87	47.4	13,616	13,126	12,744	12,363	12,009	11,682	11,410	3,222	931	902	879	854	832	812	794	4,428	
2in14		XXS	1.61	40.9	18,086	17,435	16,928	16,422	15,952	15,518	15,156	3,853	1,237	1,198	1,167	1,135	1,106	1,078	1,054	5,295	
2in13		160	1.50	38.1	19,926	19,209	18,651	18,093	17,575	17,097	16,698	4,235	1,363	1,320	1,286	1,251	1,218	1,188	1,162	5,820	
3in27		Std-40-40S	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	7,946	
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	7,949	
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		160	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	1,193	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		160	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	5 in	XXS	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	1,133	25,356	
5in52		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	6 in	160	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		XXS	3.69	93.7	15,905	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	1,032	53,104
5in31		160	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	1,244	57,614	
6in62		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)	120	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		160	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	1,090	93,605	
6in40		XXS	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	1,166	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	160	160	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		XXS	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 bore of sealing		Pressure Rating (psi)								Max Bending Capacity (6)	Pressure rating (bar)							Max Bending Capacity (6)
			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	
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	875,586	
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	





## Heavy Duty Series

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

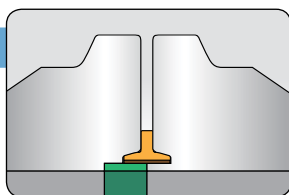
Techlok size	Nom. Pipe Size	Schedules	Min bore of sealing		Pressure Rating (psi)								Max Bending Capacity (°)	Pressure rating (bar)							Max Bending Capacity (°)
					ins	mm	0-100°F	200°F	300°F	400°F	500°F	600°F		700°F	(Ft-lbs)	0-50°C	100°C	150°C	200°C	250°C	
H2in20	2 in	Std-40-40S	2.06	52.4	18,493	17,827	17,310	16,792	16,311	15,867	15,497	8,923	1,265	1,225	1,193	1,161	1,131	1,103	1,078	12,264	
H2in20		XS-80-80S	2.06	52.4	18,493	17,827	17,310	16,792	16,311	15,867	15,497	8,923	1,265	1,225	1,193	1,161	1,131	1,103	1,078	12,264	
H2in16		160	1.87	47.4	21,376	20,607	20,008	19,410	18,854	18,341	17,914	9,331	1,462	1,416	1,380	1,342	1,307	1,274	1,246	12,824	
H2in14		XXS	1.61	40.9	25,513	24,595	23,881	23,166	22,503	21,891	21,380	10,156	1,745	1,690	1,646	1,601	1,560	1,521	1,487	13,958	
H2in13	3 in		1.50	38.1	27,294	26,312	25,548	24,783	24,074	23,419	22,873	10,679	1,867	1,808	1,761	1,713	1,669	1,627	1,591	14,677	
H3in27		Std-40-40S	3.06	77.8	12,191	11,752	11,410	11,069	10,752	10,460	10,216	11,294	834	807	787	765	745	727	711	15,523	
H3in27		XS-80-80S	3.06	77.8	12,191	11,752	11,410	11,069	10,752	10,460	10,216	11,294	834	807	787	765	745	727	711	15,523	
H3in25		160	2.67	67.9	16,340	15,751	15,294	14,836	14,411	14,019	13,693	13,537	1,118	1,082	1,054	1,025	999	974	953	18,604	
H3in23		XXS	2.38	60.3	19,798	19,085	18,531	17,976	17,462	16,987	16,591	14,741	1,354	1,311	1,278	1,242	1,210	1,180	1,154	20,260	
H3in20			2.06	52.4	23,752	22,896	22,231	21,566	20,949	20,379	19,904	16,020	1,625	1,573	1,533	1,491	1,452	1,416	1,385	22,018	
H4in40		4 in	Std-40-40S	4.06	103.2	10,600	10,219	9,922	9,625	9,349	9,095	8,883	20,436	725	702	684	665	648	632	618	28,086
H4in40			XS-80-80S	4.06	103.2	10,600	10,219	9,922	9,625	9,349	9,095	8,883	20,436	725	702	684	665	648	632	618	28,086
H4in34	160		3.69	93.7	14,014	13,510	13,118	12,725	12,361	12,024	11,744	24,041	959	928	904	880	857	836	817	33,042	
H4in31	XXS		3.25	82.6	17,801	17,161	16,662	16,164	15,701	15,274	14,918	27,380	1,218	1,179	1,149	1,117	1,088	1,061	1,038	37,630	
H4in27	6 in		3.06	77.8	19,535	18,832	18,285	17,738	17,230	16,761	16,370	28,526	1,336	1,294	1,261	1,226	1,194	1,165	1,139	39,206	
H4in25			2.67	67.9	23,375	22,534	21,879	21,225	20,617	20,056	19,589	31,014	1,599	1,548	1,509	1,467	1,429	1,394	1,363	42,626	
H8in56		80-80S-120 (5) 160-XXS (5)	5.75	146.1	15,033	15,033	14,756	14,314	13,904	13,526	13,211	114,113	1,036	1,034	1,017	989	964	940	919	156,835	
H8in52				5.31	135.0	17,506	17,461	16,954	16,447	15,976	15,541	15,179	121,046	1,206	1,200	1,169	1,137	1,107	1,080	1,056	166,364
H8in46			5.31	135.0	21,340	20,571	19,974	19,376	18,822	18,309	17,883	131,196	1,460	1,413	1,377	1,339	1,305	1,272	1,244	180,314	
H8in82		Std-40-40S XS-80-80S XXS-160	8.25	209.6	3,007	2,899	2,815	2,731	2,652	2,580	2,520	41,781	206	199	194	189	184	179	175	57,423	
H8in76				7.75	196.9	4,787	4,615	4,481	4,347	4,222	4,107	4,011	54,319	327	317	309	300	293	285	279	74,655
H8in72				7.25	184.2	7,057	6,803	6,606	6,408	6,224	6,055	5,914	74,228	483	467	455	443	431	421	411	102,017
H8in67			6.88	174.6	9,153	8,823	8,567	8,310	8,073	7,853	7,670	84,202	626	606	591	574	560	546	534	115,726	
H8in64	8 in		6.50	165.1	11,220	11,220	10,915	10,588	10,285	10,005	9,772	95,085	774	771	753	732	713	695	680	130,683	
H8in62			6.07	154.1	12,793	12,793	12,793	12,793	12,493	12,153	11,870	104,799	882	882	882	882	865	844	826	144,034	
H10in102		Std-40-40S XS-60-80-80S 120-100 XXS-140 160	10.25	260.4	2,846	2,744	2,664	2,585	2,511	2,442	2,385	72,747	195	189	184	179	174	170	166	99,982	
H10in97				9.88	250.8	3,883	3,744	3,635	3,526	3,425	3,332	3,254	92,560	266	257	251	244	237	232	226	127,212
H10in94				9.50	241.3	5,089	4,906	4,764	4,621	4,489	4,367	4,265	111,975	348	337	328	319	311	303	297	153,896
H10in87				8.88	225.4	7,531	7,260	7,049	6,838	6,642	6,462	6,311	141,612	515	499	486	473	460	449	439	194,628
H10in84			8.50	215.9	9,301	8,966	8,706	8,446	8,204	7,981	7,795	158,288	636	616	600	584	569	555	542	217,547	
H10in82			8.25	209.6	10,132	10,132	9,951	9,653	9,377	9,121	8,909	166,020	699	697	686	667	650	634	620	228,175	
H10in76		7.75	196.9	11,413	11,413	11,413	11,413	11,281	10,974	10,719	187,209	787	787	787	787	779	763	746	257,296		
H12in120	12 in	Std-40-40S	12.00	304.8	3,635	3,504	3,402	3,300	3,206	3,118	3,046	151,543	249	241	235	228	222	217	212	208,278	
H12in116		XS-80-80S	11.75	298.5	4,251	4,098	3,979	3,860	3,750	3,648	3,563	169,203	291	282	274	267	260	253	248	232,549	
H12in112		100	11.25	285.8	5,708	5,503	5,343	5,183	5,035	4,898	4,784	208,492	390	378	368	358	349	340	333	286,548	
H12in106		XXS-120-140	10.75	273.1	7,389	7,123	6,916	6,710	6,517	6,340	6,192	238,734	505	489	477	464	452	441	431	328,111	
H12in102	14 in	N.a.	10.25	260.4	8,341	8,341	8,341	8,341	8,251	8,027	7,839	269,586	575	575	575	575	570	558	545	370,513	
H12in97			9.88	250.8	8,961	8,961	8,961	8,961	8,961	8,961	8,961	294,061	618	618	618	618	618	618	601	404,151	
H14in134		40 XS 80-100 120 140 160	13.50	342.9	4,723	4,553	4,420	4,288	4,165	4,052	3,958	349,055	323	313	305	296	289	282	275	479,734	
H14in130				13.00	330.2	6,006	5,790	5,622	5,453	5,297	5,153	5,033	338,911	411	398	388	377	367	358	350	465,792
H14in124				12.50	317.5	6,881	6,881	6,881	6,806	6,611	6,431	6,281	388,661	474	474	474	470	458	447	437	534,168
H14in120				12.00	304.8	7,520	7,520	7,520	7,520	7,520	7,520	7,197	429,443	518	518	518	518	518	518	505	590,219
H14in116			11.75	298.5	7,800	7,800	7,800	7,800	7,800	7,800	7,465	449,055	538	538	538	538	538	538	523	617,173	
H14in112			11.25	285.8	8,519	8,519	8,519	8,519	8,519	8,519	8,153	497,667	587	587	587	587	587	587	572	683,985	
H14in106	16 in		10.75	273.1	9,300	9,300	9,300	9,300	9,300	9,300	8,900	521,332	641	641	641	641	641	641	624	716,509	
H16in152		XS-40-60	15.25	387.4	5,954	5,739	5,573	5,406	5,251	5,108	4,989	530,027	407	394	384	374	364	355	347	728,459	
H16in144		80	14.50	368.3	7,893	7,609	7,388	7,167	6,962	6,772	6,614	623,124	540	523	509	495	483	471	460	856,410	
H16in140		100	14.00	355.6	9,289	9,045	8,782	8,519	8,275	8,050	7,862	680,572	637	621	605	589	574	559	547	935,366	
H16in137		120	13.88	352.4	9,452	9,430	9,156	8,882	8,628	8,393	8,198	695,950	651	648	631	614	598	583	570	996,501	
H16in134		140	13.50	342.9	9,969	9,969	9,969	9,856	9,574	9,314	9,096	727,262	687	687	687	680	664	647	633	999,535	
H16in130		160	13.00	330.2	10,727	10,727	10,727	10,727	10,606	10,318	10,077	776,531	740	740	740	740	733	717	701	1,067,250	
H16in120			12.00	304.8	12,526	12,526	12,526	12,526	12,526	12,423	11,988	869,054	864	864	864	864	864	859	838	1,194,412	
H16in112	18 in		11.25	285.8	14,191	14,191	14,191	14,191	14,191	14,091	13,581	945,955	978	978	978	978	97				



## 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 sealing 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.



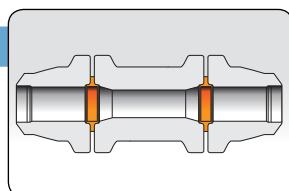
### Adapter spool

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.



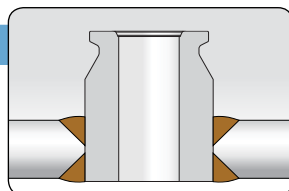
### Spade/Spacer

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

### Slimline 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.



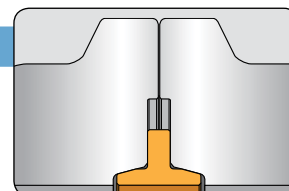
### Sweep-o-Hubs

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 bending 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 inline 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 from 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.

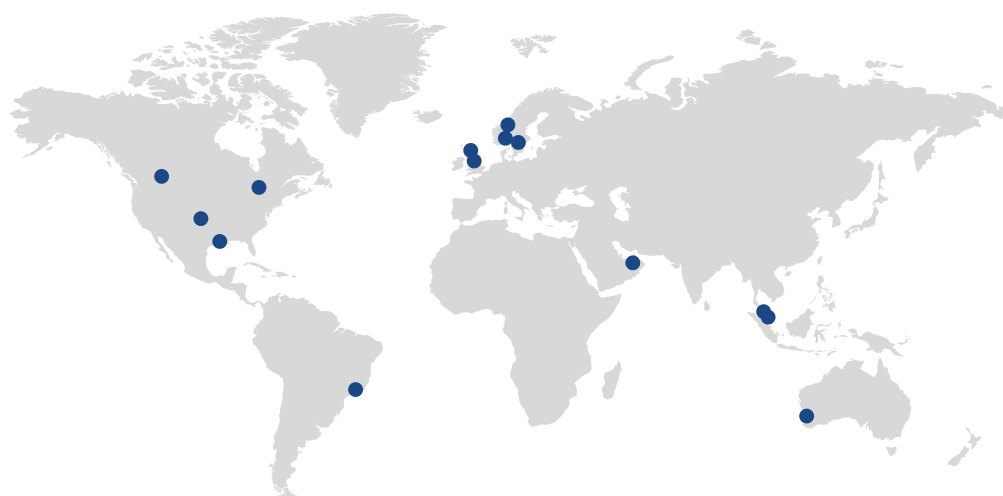


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