

STANDARD CLAMP

INCHES

N.P.S (DN) O.Dia ins (mm)	Pipe Schedule	Pipe Inside Diameter	Pipe Wall Thickness inc (mm)	Tecklok Designation Hub/S.Ring	BW Hub Wt. Lbs. (Kg)	Connector Weight lbs (Kg)
1/2" (DN 15) 0.840 (21.3)	Std 40 40S	0.622 (15.8)	0.109 (2.8)	1in/5	0.6 (0.3)	5.4 (2.4)
	XS 80 80S	0.546 (13.9)	0.147 (3.7)	1in/5	0.6 (0.3)	5.4 (2.5)
	160	0.466 (11.8)	0.187 (4.7)	1in/4	0.6 (0.3)	5.5 (2.5)
	XXS	0.252 (6.4)	0.294 (7.5)	1in/4	0.7 (0.3)	5.6 (2.5)
3/4" (DN 20) 1.050 (26.7)	Std 40 40S	0.824 (20.9)	0.113 (2.9)	1in/7	0.5 (0.2)	5.3 (2.4)
	XS 80 80S	0.742 (18.8)	0.154 (3.9)	1in/7	0.6 (0.3)	5.4 (2.4)
	160	0.614 (15.6)	0.218 (5.5)	1in/5	0.7 (0.3)	5.5 (2.5)
	XXS	0.434 (11.0)	0.308 (7.8)	1in/4	0.7 (0.3)	5.7 (2.6)
1" (DN 25) 1.315 (33.4)	Std 40 40S	0.049 (26.6)	0.133 (3.4)	1in/11	0.5 (0.2)	5.2 (2.3)
	XS 80 80S	0.957 (24.3)	0.179 (4.5)	1in/11	0.5 (0.2)	5.3 (2.4)
	160	0.815 (20.7)	0.250 (6.4)	1in/7	0.6 (0.3)	5.5 (2.5)
	XXS	0.599 (15.2)	0.358 (9.1)	1in/5	0.7 (0.3)	5.7 (2.6)
1-1/2" (DN 40) 1.900 (48.3)	Std 40 40S	1.610 (40.9)	0.145 (3.7)	1-1/2 in/14	1.6 (0.7)	13.5 (6.1)
	XS 80 80S	1.500 (38.1)	0.200 (5.1)	1-1/2 in/13	1.9 (0.8)	13.8 (6.2)
	160	1.338 (34.0)	0.281 (7.1)	1-1/2 in/13	2.0 (0.9)	14.1 (6.4)
	XXS	1.100 (27.9)	0.400 (10.2)	1-1/2 in/11	2.4 (1.1)	14.7 (6.7)
2" (DN 50) 2.375 (60.3)	Std 40 40S	2.067 (52.5)	0.154 (3.7)	2 in/20	2.2 (1.0)	18.2 (8.2)
	XS 80 80S	1.939 (49.3)	0.218 (5.5)	2 in/20	2.5 (1.1)	18.6 (8.5)
	160	1.689 (42.9)	0.343 (8.7)	2 in/16	3.0 (1.4)	19.6 (8.9)
	XXS	1.503 (38.2)	0.436 (11.1)	2 in/14	3.4 (1.5)	20.3 (9.2)
3" (DN 75) 3.500 (88.9)	Std 40 40S	3.068 (77.9)	0.216 (5.5)	3 in/27	4.7 (2.1)	33.6 (15.2)
	XS 80 80S	2.900 (73.7)	0.300 (7.6)	3 in/27	5.2 (2.4)	34.7 (15.7)
	160	2.624 (66.6)	0.438 (11.1)	3 in/25	6.3 (2.9)	36.9 (16.7)
	XXS	2.300 (58.4)	0.600 (15.2)	3 in/23	7.4 (3.3)	38.8 (17.6)
4" (DN 100) 4.500 (114.3)	Std 40 40S	4.026 (102.3)	0.237 (6.0)	4 in/40	6.7 (3.1)	43.3 (19.6)
	XS 80 80S	3.826 (97.2)	0.337 (8.6)	4 in/40	7.7 (3.5)	45.1 (20.5)
	160	3.438 (87.3)	0.531 (13.5)	4 in/34	10.0 (4.5)	49.9 (22.4)
	XXS	3.152 (80.1)	0.674 (17.1)	4 in/31	11.5 (5.2)	52.3 (22.8)
5" (DN 125) 5.563 (141.3)	Std 40 40S	5.047 (128.2)	0.258 (6.6)	5 in/52	13.3 (6.0)	68.9 (31.2)
	XS 80 80S	4.813 (122.3)	0.375 (9.5)	5 in/52	14.8 (6.7)	72.0 (32.7)
	160	4.313 (109.6)	0.625 (15.9)	5 in/46	19.2 (8.7)	80.8 (36.7)
	XXS	4.063 (103.2)	0.750 (19.1)	5 in/31	21.9 (9.9)	85.9 (39.0)
6" (DN 150) 6.625 (168.3)	Std 40 40S	6.065 (154.1)	0.280 (7.1)	6 in/62	20.4 (9.2)	114 (51.8)
	XS 80 80S	5.761 (146.3)	0.432 (11.0)	6 in/56	24.9 (11.3)	122 (55.3)
	120	5.501 (139.7)	0.562 (14.3)	6 in/54	27.7 (12.6)	128 (57.9)
	160	5.189 (131.8)	0.718 (18.2)	6 in/52	30.7 (13.9)	133 (60.3)
	XXS	4.897 (124.4)	0.864 (21.9)	6 in/52	32.7 (14.8)	137 (62.2)
	100	7.981 (202.7)	0.322 (8.2)	8 in/82	33.0 (15.0)	181 (81.9)
8" (DN 200) 8.625 (219.1)	XS 80 80S	7.625 (193.7)	0.500 (12.7)	8 in/76	40.3 (18.3)	195 (88.7)
	100	7.439 (189.0)	0.593 (15.1)	8 in/76	42.3 (19.2)	200 (90.6)
	120	7.189 (182.6)	0.718 (18.2)	8 in/72	47.8 (21.7)	210 (95.4)
	140	7.001 (177.8)	0.812 (20.6)	8 in/72	49.9 (22.6)	214 (97.3)
	XXS	6.875 (174.6)	0.875 (22.2)	8 in/67	52.9 (24.0)	220 (99.3)
	160	6.813 (173.1)	0.906 (23.0)	8 in/67	53.6 (24.3)	221 (100)

Clampset Data

Tecklok Size	Bolt Torque (lubricated) Bolt Size			Clampset Weight inc. studs and nuts		Cross Reference Table	
	Ft	lbs	(Nm)	lbs	(kg)	Standard	Optional size
1 in 1	17.35	(23)	0.500" 13 UN x 3.50"	4.2	1.9	1GR	
1/2 in	55	(47)	0.625" 11 UNC x 5.00"	9.9	4.5	11/2GR	
2 in	60	(75)	0.750" 10 UNC x 5.25"	13.2	6	2GR	
3 in	90	(81)	0.750" 10 UNC x 6.50"	23.6	10.7	3GR	
4 in	140	(122)	0.875" 9 UNC x 7.50"	28.7	13	4GR	
5 in	200	(190)	1.000" 8 UNC x 8.00"	41.0	18.6	5GR	
6 in	300	(271)	1.125" 8 UN x 10.00"	70.3	31.9	6GR	
8 in		(407)	1.250" 8 UN x 10.50"	110	50	8GR	E "F, XF" X8GR

Heavy Duty

H2 in	90	(122)	0.875" 9 UNC x 7.50"	24	11	B	
H3 in	100	(136)	0.875" 9 UNC x 7.50"	33	15	C	
H4 in	140	(190)	1.000" 8 UN x 8.00"	42	19	D	
H8 in	390	(529)	1.375" 8 UN x 11.00"	143	65	G	
H10 in	600	(813)	1.625" 8 UN x 14.25"	243	110	10H	XG
H12 in	900	(1220)	1.750" 8 UN x 17.00"	320	145	12M	X10H
H14 in	1200	(1627)	1.875" 8 UN x 16.50"	430	195	P	X12M
H16 in	2000	(2711)	2.250" 8 UN x 22.00"	683	310	S	5P
H18 in	2000	(2711)	2.250" 8 UN x 22.00"	650	295		
H20 in	2000	(2711)	2.250" 8 UN x 26.00"	882	400	U	
H22 in	2000	(2711)	2.250" 8 UN x 26.00"	838	380	V	
H24 in	2000	(2711)	2.250" 8 UN x 27.00"	1047	475	W	
H26 in	2500	(3389)	2.250" 8 UN x 28.00"	1155	524	Y	3W 3Y

Conversion Factors

1 bar =	0.1	N/mm2	1 kg/cm2 =	14.2234	psi	1 pascal =	1	N/m2
1 bar =	14.504	psi	1 kg/m2 =	98.07	bar	1 pint =	0.56825	litre
1 barrel bbl 0.	119241	cu m	1 km =	3280.8	ft	1 pint =	20	fl oz
1Btu =	0.000293	kw-hr	1 km =	0.62137	mile	1 psi =	0.06895	bar
1 carat =	0.041666	% gold	1 lb =	0.45359	kg	1 psi =	0.006895	N/mm2
1cu ft =	0.028317	cu m	1 lb =	16	oz	1 psi =	3.895	kpa
1cu m =	35.3147	cu ft	1 lb/in3 =	27680.2	kg/m3	1 stone =	14	lb
1cwt =	112	lb	1 litre =	1.7598	pint	1 ton =	1016	kg
1 fathom =	6.08	ft	1 metre =	39.37	ins	1 tonne =	1000	kg
1 fathom =	1.8532	m	1 metre =	3.2808	ft	1 yard =	0.9144	m
1 frkin =	34.068	litre	1 mile =	1.60934	km			
1 fl oz =	0.2	gill	1MPa =	145.03	psi			
1ft =	0.3048	m	1N/mm2 =	145.03	psi			
1ft-lb =	1.3559	Nm	1Newton =	0.2248	lbf			
1gallon =	8	pints	1Nm =	0.7376	ft-lbf			
1H.P. =	745.7	watt	1noggin =	142.06	cc			
1inch =	25.4	mm	1noggin =	1	gill			
1kg =	2.2046	lb	1oz =	28.3495	g			

Deg C = (Deg F - 32)/1.8
 Deg F = (1.8 x Deg C) + 32
 Gravity (acceleration) = 32.2Ft/sec2
 Gravity (acceleration) = 9.8067m/sec2
 Pi = 3.14159
 Young Modulus (Aluminium) = 68966N/mm2
 Young Modulus (Steel) = 200000N/mm2
 Young Modulus (Titanium alloy) = 117240N/mm2

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HEAVY DUTY CLAMP

N.P.S (DN) O.Dia ins (mm)	Pipe Schedule	Pipe Inside Diameter	Pipe Wall Thickness inc (mm)	Techlok Designation Hub/S.Ring	BW Hub Wt. Lbs. (Kg)	Connector Weight lbs (Kg)
2" (DN 50) 2.375 (60.3)	Std 40 40S	2.067 (52.5)	0.154 (3.7)	H2 in/20	6.2 (2.8)	37.0 (16.8)
	XS 80 80S	1.939 (49.3)	0.218 (5.5)	H2 in/20	6.5 (2.9)	37.6 (17.1)
	160	1.689 (42.9)	0.343 (8.7)	H2 in/16	7.1 (3.2)	38.7 (17.6)
	XXS	1.503 (38.2)	0.436 (11.1)	H2 in/14	7.5 (3.4)	39.6 (18.0)
3" (DN 75) 3.500 (88.9)	Std 40 40S	3.068 (77.9)	0.216 (5.5)	H3 in/27	7.3 (3.3)	48.4 (21.9)
	XS 80 80S	2.900 (73.7)	0.300 (7.6)	H3 in/27	8.0 (3.6)	49.6 (22.5)
	160	2.624 (66.6)	0.438 (11.1)	H3 in/25	9.2 (4.2)	52.0 (23.6)
	XXS	2.300 (58.4)	0.600 (15.2)	H3 in/23	10.3 (4.7)	54.1 (24.5)
4" (DN 100) 4.500 (114.3)	Std 40 40S	4.026 (102.3)	0.237 (6.0)	H4 in/40	11.9 (5.4)	65.0 (29.5)
	XS 80 80S	3.826 (97.2)	0.337 (8.6)	H4 in/40	13.0 (5.9)	67.1 (30.4)
	160	3.438 (87.3)	0.531 (13.5)	H4 in/34	15.5 (7.0)	71.8 (32.6)
	XXS	3.152 (80.1)	0.674 (17.1)	H4 in/31	17.2 (7.8)	75.1 (34.1)
8" (DN 200) 8.625 (219.1)	Std 40 40S	7.981 (202.7)	0.322 (8.2)	H8 in/82	31.6 (14.3)	205 (93.2)
	XS 80 80S	7.625 (193.7)	0.500 (12.7)	H8 in/76	38.3 (17.4)	219 (99.5)
	80	7.439 (189.0)	0.593 (15.1)	H8 in/76	40.3 (18.3)	223 (101.3)
	100	7.189 (182.6)	0.718 (18.2)	H8 in/72	45.4 (20.6)	233 (105.8)
	120	7.001 (177.8)	0.812 (20.6)	H8 in/72	47.2 (21.4)	237 (107.4)
	XXS 140	6.875 (174.6)	0.875 (22.2)	H8 in/67	50.1 (22.7)	242 (109.7)
10" (DN 250) 10.750 (273.1)	Std 40 40S	10.020 (202.7)	0.365 (9.3)	H10 in/102	49.9 (22.6)	348 (158)
	XS 80 80S	9.750 (247.7)	0.500 (12.7)	H10 in/97	57.5 (26.1)	363 (165)
	100	9.564 (242.9)	0.593 (15.1)	H10 in/97	60.7 (27.6)	370 (168)
	120	9.314 (236.6)	0.718 (18.2)	H10 in/94	67.6 (30.7)	383 (174)
	140	9.064 (230.2)	0.843 (21.4)	H10 in/94	71.4 (32.4)	391 (177)
	XXS	8.750 (222.3)	1.000 (25.4)	H10 in/87	80.5 (36.5)	409 (186)
12" (DN 300) 12.750 (323.9)	Std 40S	12.000 (304.8)	0.375 (9.5)	H12 in/120	77.1 (35.0)	480 (218)
	40	11.938 (303.2)	0.406 (10.3)	H12 in/120	78.8 (35.8)	483 (219)
	XS 80S	11.750 (298.5)	0.500 (12.7)	H12 in/116	85.4 (38.7)	498 (226)
	80	11.376 (289.0)	0.687 (17.4)	H12 in/116	94.4 (42.8)	516 (234)
	100	11.064 (281.0)	0.843 (21.4)	H12 in/112	104.3 (47.3)	541 (245)
	XXS 120	10.750 (273.1)	1.000 (25.4)	H12 in/106	112.9 (51.2)	551 (250)
14" (DN 350) 14.000 (355.6)	40	13.124 (333.3)	0.438 (11.1)	H14 in/134	124.7 (56.6)	688 (312)
	XS	13.000 (330.2)	0.500 (12.7)	H14 in/130	133.3 (60.4)	705 (320)
	80	12.500 (317.5)	0.750 (19.1)	H14 in/124	153.3 (69.5)	744 (337)
	100	12.126 (308.0)	0.937 (23.8)	H14 in/124	163.7 (74.3)	764 (347)
	120	11.814 (300.1)	1.093 (27.8)	H14 in/120	177.3 (80.4)	790 (359)
	140	11.500 (292.1)	1.250 (31.8)	H14 in/116	187.2 (84.9)	811 (368)
16" (DN 400) 16.000 (406.4)	40	15.000 (381.0)	0.500 (12.7)	H16 in/152	194.8 (88.4)	1085 (492)
	XS 40	14.688 (373.1)	0.656 (16.7)	H16 in/152	206.3 (93.6)	1108 (503)
	80	14.314 (363.6)	0.843 (21.4)	H16 in/144	229.1 (103.9)	1153 (523)
	100	13.938 (354.0)	1.031 (26.2)	H16 in/140	247.5 (112.3)	1189 (540)
	120	13.564 (344.5)	1.218 (30.9)	H16 in/137	206.5 (118.2)	1218 (553)
	140	13.124 (333.3)	1.438 (36.5)	H16 in/134	279.4 (126.8)	1251 (568)
18" (DN 450) 18.000 (457.2)	40	16.876 (428.7)	0.562 (14.3)	H18 in/170	219.8 (99.7)	1277 (579)
	60	16.500 (419.1)	0.750 (19.1)	H18 in/170	191.7 (86.9)	1048 (475)
	80	16.126 (409.6)	0.937 (23.8)	H18 in/160	219.8 (99.7)	1104 (501)
	100	15.688 (398.5)	1.056 (29.4)	H18 in/160	238.1 (108.0)	1139 (517)
	120	15.250 (387.4)	1.375 (34.9)	H18 in/152	262.8 (119.2)	1188 (539)
	140	14.876 (377.9)	1.562 (39.7)	H18 in/152	276.4 (125.4)	1215 (551)
20" (DN 500) 20.000 (508.0)	40	18.814 (477.9)	0.593 (15.1)	H20 in/192	262.7 (119.2)	1402 (636)
	60	18.376 (466.8)	0.812 (20.6)	H20 in/185	295.1 (133.9)	1466 (665)
	80	17.938 (455.9)	1.031 (26.2)	H20 in/180	327.6 (148.6)	1530 (694)
	100	17.438 (442.9)	1.281 (32.5)	H20 in/180	351.9 (159.6)	1578 (716)
	120	17.000 (431.8)	1.500 (38.1)	H20 in/170	386.5 (175.3)	1647 (747)
	140	16.500 (419.1)	1.750 (44.5)	H20 in/170	480.7 (185.4)	1691 (767)
22" (DN 550) 22.000 (558.8)	40	20.750 (527.1)	0.625 (15.9)	H22 in/210	440.3 (199.7)	1753 (795)
	60	20.250 (514.4)	0.875 (22.2)	H22 in/210	219.8 (99.7)	1277 (579)
	80	19.750 (501.7)	1.125 (28.6)	H22 in/200	247.0 (112.0)	1331 (604)
	100	19.250 (489.0)	1.375 (34.9)	H22 in/192	295.2 (133.9)	1424 (646)
	120	18.750 (476.3)	1.625 (41.3)	H22 in/192	333.3 (151.2)	1499 (680)
	140	18.250 (463.6)	1.875 (47.6)	H22 in/185	358.9 (162.8)	1551 (704)
24" (DN 600) 24.000 (609.6)	40	22.625 (574.7)	0.688 (17.5)	H24 in/225	398.1 (177.7)	1616 (733)
	60	20.064 (509.6)	0.968 (24.6)	H24 in/220	424.8 (192.7)	1680 (762)
	80	21.564 (547.7)	1.218 (30.9)	H24 in/220	360.3 (163.4)	1792 (813)
	100	20.938 (531.8)	1.531 (38.9)	H24 in/210	409.6 (185.8)	1889 (857)
	120	20.376 (517.6)	1.812 (46.0)	H24 in/210	441.6 (200.3)	1953 (886)
	140	19.876 (504.9)	2.062 (52.4)	H24 in/200	496.8 (225.4)	2062 (936)
26" (DN 650) 26.000 (660.4)	Std	25.250 (641.4)	0.375 (9.5)	H26 in/254	527.4 (239.2)	2123 (963)
	XS	25.000 (635.0)	0.500 (12.7)	H26 in/254	573.0 (259.9)	2211 (1003)

Densities (Kg/m³)

Solids		Liquids		Gases - ambient	
Aluminium	2710	Gasoline (petrol)	729	Air	1.293
Brass (70Cu/30Zn)	8500	Methanol	791	Argon	1.784
Bronze (Phosphor)	8858	Oil (Crude)	778	Carbon Dioxide	1.977
Concrete	2400	Oil (Crude - heavy)	856	Helium	0.179
Iron (Grey Cast)	7150	Oil (lubricating)	913	Hydrogen	0.09
Lead	11340	Paraffin oil	800	Methane	0.717
Nickel Alloy	8440	Water (H2O)	1000	Nitrogen	1.192
Polyethylene (HDPE)	955	Water (Sea)	1025	Oxygen	1.356
Zinc	7140	Whisky (40%)	1.89	Propane	1.89

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