



TenarisHydril Blue™ Thermal Liner

Document: TSH-BD-03.0001
 Revision: 03
 Date: 12-Oct-2009

DESIGNATION			PIN and BOX		PIN				BOX							
			GENERAL		GENERAL				REGULAR		SPECIAL CLEARANCE		MATCHED STRENGTH		GENERAL	
DIAMETER	WEIGHT	PRODUCT	MINIMUM LENGTH	ADD. LENGTH 1 RECUT	OUTSIDE DIAMETER min	OUTSIDE DIAMETER max	INSIDE DIAMETER min	INSIDE DIAMETER max	OUTSIDE DIAMETER min	OUTSIDE DIAMETER max	OUTSIDE DIAMETER min	OUTSIDE DIAMETER max	OUTSIDE DIAMETER min	OUTSIDE DIAMETER max	INSIDE DIAMETER min	INSIDE DIAMETER max
in.	lb/ft	---	inch (mm)	inch (mm)	inch (mm)	inch (mm)	inch (mm)	inch (mm)	inch (mm)	inch (mm)	inch (mm)	inch (mm)	inch (mm)	inch (mm)	inch (mm)	inch (mm)
2.375	4.60	TSH BLUE™ TL	3.150 (80.00)	2.087 (53.00)	2.375 (60.33)	2.406 (61.12)	1.983 (50.37)	2.007 (50.97)	2.776 (70.50)	2.815 (71.50)	2.661 (67.60)	2.685 (68.20)	2.673 (67.90)	2.697 (68.50)	1.929 (49.00)	1.945 (49.40)
	5.10	TSH BLUE™ TL	3.150 (80.00)	2.087 (53.00)	2.375 (60.33)	2.406 (61.12)	1.927 (48.95)	1.951 (49.55)	2.776 (70.50)	2.815 (71.50)	2.705 (68.70)	2.728 (69.30)	2.717 (69.00)	2.740 (69.60)	1.870 (47.50)	1.886 (47.90)
	5.80	TSH BLUE™ TL	3.150 (80.00)	2.087 (53.00)	2.375 (60.33)	2.406 (61.12)	1.855 (47.12)	1.879 (47.72)	2.776 (70.50)	2.815 (71.50)	2.744 (69.70)	2.768 (70.30)	2.764 (70.20)	2.787 (70.80)	1.819 (46.20)	1.835 (46.60)
2.875	6.40	TSH BLUE™ TL	3.465 (88.00)	2.276 (57.80)	2.875 (73.03)	2.906 (73.83)	2.429 (61.70)	2.453 (62.30)	3.317 (84.25)	3.356 (85.25)	3.181 (80.80)	3.205 (81.40)	3.213 (81.60)	3.236 (82.20)	2.374 (60.30)	2.390 (60.70)
	7.70	TSH BLUE™ TL	3.465 (88.00)	2.276 (57.80)	2.875 (73.03)	2.906 (73.83)	2.311 (58.70)	2.335 (59.30)	3.386 (86.00)	3.425 (87.00)	3.260 (82.80)	3.283 (83.40)	3.299 (83.80)	3.323 (84.40)	2.264 (57.50)	2.280 (57.90)
	8.60	TSH BLUE™ TL	3.465 (88.00)	2.276 (57.80)	2.875 (73.03)	2.906 (73.83)	2.247 (57.08)	2.271 (57.68)	3.386 (86.00)	3.425 (87.00)	3.299 (83.80)	3.323 (84.40)	3.343 (84.90)	3.366 (85.50)	2.201 (55.90)	2.217 (56.30)
3.500	9.20	TSH BLUE™ TL	4.016 (102.00)	2.276 (57.80)	3.500 (88.90)	3.531 (89.70)	2.980 (75.70)	3.004 (76.30)	3.898 (99.00)	3.937 (100.00)	3.839 (97.50)	3.862 (98.10)	3.874 (98.40)	3.898 (99.00)	2.931 (74.45)	2.947 (74.85)
	10.20	TSH BLUE™ TL	4.016 (102.00)	2.276 (57.80)	3.500 (88.90)	3.531 (89.70)	2.910 (73.92)	2.934 (74.52)	3.976 (101.00)	4.016 (102.00)	3.886 (98.70)	3.909 (99.30)	3.929 (99.80)	3.953 (100.40)	2.892 (73.46)	2.908 (73.86)
	12.00	TSH BLUE™ TL	4.016 (102.00)	2.276 (57.80)	3.500 (88.90)	3.531 (89.70)	2.738 (69.55)	2.762 (70.15)	4.114 (104.50)	4.154 (105.50)	3.996 (101.50)	4.020 (102.10)	4.051 (102.90)	4.075 (103.50)	2.845 (72.27)	2.861 (72.67)
4.500	10.50	TSH BLUE™ TL	4.646 (118.00)	2.276 (57.80)	4.500 (114.30)	4.545 (115.44)	4.040 (102.62)	4.064 (103.22)	4.898 (124.40)	4.945 (125.60)	4.764 (121.00)	4.787 (121.60)	4.795 (121.80)	4.819 (122.40)	4.008 (101.80)	4.024 (102.20)
	11.60	TSH BLUE™ TL	4.646 (118.00)	2.276 (57.80)	4.500 (114.30)	4.545 (115.44)	3.988 (101.30)	4.012 (101.90)	4.898 (124.40)	4.945 (125.60)	4.803 (122.00)	4.827 (122.60)	4.839 (122.90)	4.862 (123.50)	3.992 (101.40)	4.008 (101.80)
	12.60	TSH BLUE™ TL	4.646 (118.00)	2.276 (57.80)	4.500 (114.30)	4.545 (115.44)	3.946 (100.23)	3.970 (100.83)	4.898 (124.40)	4.945 (125.60)	4.835 (122.80)	4.858 (123.40)	4.874 (123.80)	4.898 (124.40)	3.913 (99.40)	3.929 (99.80)
	13.50	TSH BLUE™ TL	4.646 (118.00)	2.276 (57.80)	4.500 (114.30)	4.545 (115.44)	3.908 (99.27)	3.932 (99.87)	4.937 (125.40)	4.984 (126.60)	4.862 (123.50)	4.886 (124.10)	4.906 (124.60)	4.929 (125.20)	3.913 (99.40)	3.929 (99.80)
	15.10	TSH BLUE™ TL	4.646 (118.00)	2.276 (57.80)	4.500 (114.30)	4.545 (115.44)	3.814 (96.88)	3.838 (97.48)	5.055 (128.40)	5.102 (129.60)	4.929 (125.20)	4.953 (125.80)	4.976 (126.40)	5.000 (127.00)	3.846 (97.70)	3.862 (98.10)
	17.00	TSH BLUE™ TL	4.646 (118.00)	2.276 (57.80)	4.500 (114.30)	4.545 (115.44)	3.728 (94.70)	3.752 (95.30)	5.055 (128.40)	5.102 (129.60)	4.988 (126.70)	5.012 (127.30)	5.043 (128.10)	5.067 (128.70)	3.819 (97.00)	3.835 (97.40)
	23.70	TSH BLUE™ TL	4.646 (118.00)	2.276 (57.80)	4.500 (114.30)	4.545 (115.44)	3.368 (85.55)	3.392 (86.15)	5.276 (134.00)	5.323 (135.20)	5.215 (132.45)	5.238 (133.05)	5.299 (134.60)	5.323 (135.20)	3.709 (94.20)	3.724 (94.60)



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			GENERAL		GENERAL				REGULAR		SPECIAL CLEARANCE		MATCHED STRENGTH		GENERAL	
DIAMETER	WEIGHT	PRODUCT	MINIMUM LENGTH	ADD. LENGTH 1 RECUT	OUTSIDE DIAMETER min	OUTSIDE DIAMETER max	INSIDE DIAMETER min	INSIDE DIAMETER max	OUTSIDE DIAMETER min	OUTSIDE DIAMETER max	OUTSIDE DIAMETER min	OUTSIDE DIAMETER max	OUTSIDE DIAMETER min	OUTSIDE DIAMETER max	INSIDE DIAMETER min	INSIDE DIAMETER max
in.	lb/ft	---	inch (mm)	inch (mm)	inch (mm)	inch (mm)	inch (mm)	inch (mm)	inch (mm)	inch (mm)	inch (mm)	inch (mm)	inch (mm)	inch (mm)	inch (mm)	inch (mm)
5.500	15.50	TSH BLUE™ TL	4.882 (124.00)	2.276 (57.80)	5.500 (139.70)	5.555 (141.10)	4.938 (125.43)	4.962 (126.03)	6.028 (153.10)	6.075 (154.30)	5.843 (148.40)	5.866 (149.00)	5.882 (149.40)	5.906 (150.00)	4.870 (123.70)	4.886 (124.10)
	17.00	TSH BLUE™ TL	4.882 (124.00)	2.276 (57.80)	5.500 (139.70)	5.555 (141.10)	4.880 (123.96)	4.904 (124.56)	6.028 (153.10)	6.075 (154.30)	5.886 (149.50)	5.909 (150.10)	5.933 (150.70)	5.957 (151.30)	4.819 (122.40)	4.835 (122.80)
	20.00	TSH BLUE™ TL	4.882 (124.00)	2.276 (57.80)	5.500 (139.70)	5.555 (141.10)	4.766 (121.06)	4.790 (121.66)	6.028 (153.10)	6.075 (154.30)	5.972 (151.70)	5.996 (152.30)	6.024 (153.00)	6.047 (153.60)	4.764 (121.00)	4.780 (121.40)
	23.00	TSH BLUE™ TL	4.882 (124.00)	2.276 (57.80)	5.500 (139.70)	5.555 (141.10)	4.658 (118.32)	4.682 (118.92)	6.122 (155.50)	6.169 (156.70)	6.047 (153.60)	6.071 (154.20)	6.106 (155.10)	6.130 (155.70)	4.697 (119.30)	4.713 (119.70)
	26.00	TSH BLUE™ TL	4.882 (124.00)	2.276 (57.80)	5.500 (139.70)	5.555 (141.10)	4.536 (115.22)	4.560 (115.82)	6.236 (158.40)	6.283 (159.60)	6.130 (155.70)	6.154 (156.30)	6.201 (157.50)	6.224 (158.10)	4.673 (118.70)	4.689 (119.10)
	26.80	TSH BLUE™ TL	4.882 (124.00)	2.276 (57.80)	5.500 (139.70)	5.555 (141.10)	4.488 (114.00)	4.512 (114.60)	6.236 (158.40)	6.283 (159.60)	6.165 (156.60)	6.189 (157.20)	6.236 (158.40)	6.260 (159.00)	4.642 (117.90)	4.657 (118.30)
6.625	20.00	TSH BLUE™ TL	4.882 (124.00)	2.096 (53.24)	6.626 (168.30)	6.692 (169.98)	6.037 (153.34)	6.061 (153.94)	7.323 (186.00)	7.370 (187.20)	6.965 (176.90)	6.988 (177.50)	7.012 (178.10)	7.035 (178.70)	5.984 (152.00)	6.000 (152.40)
	24.00	TSH BLUE™ TL	4.882 (124.00)	2.096 (53.24)	6.626 (168.30)	6.692 (169.98)	5.909 (150.09)	5.933 (150.69)	7.323 (186.00)	7.370 (187.20)	7.063 (179.40)	7.087 (180.00)	7.122 (180.90)	7.146 (181.50)	5.862 (148.90)	5.878 (149.30)
	28.00	TSH BLUE™ TL	4.882 (124.00)	2.096 (53.24)	6.626 (168.30)	6.692 (169.98)	5.779 (146.79)	5.803 (147.39)	7.323 (186.00)	7.370 (187.20)	7.157 (181.80)	7.181 (182.40)	7.228 (183.60)	7.252 (184.20)	5.752 (146.10)	5.768 (146.50)
	32.00	TSH BLUE™ TL	4.882 (124.00)	2.096 (53.24)	6.626 (168.30)	6.692 (169.98)	5.663 (143.84)	5.687 (144.44)	7.323 (186.00)	7.370 (187.20)	7.244 (184.00)	7.268 (184.60)	7.319 (185.90)	7.343 (186.50)	5.638 (143.20)	5.654 (143.60)
7.000	20.00	TSH BLUE™ TL	5.039 (128.00)	2.096 (53.24)	7.000 (177.80)	7.070 (179.58)	6.406 (162.70)	6.429 (163.30)	7.634 (193.90)	7.681 (195.10)	7.382 (187.50)	7.406 (188.10)	7.350 (186.70)	7.374 (187.30)	6.374 (161.90)	6.390 (162.30)
	23.00	TSH BLUE™ TL	5.039 (128.00)	2.096 (53.24)	7.000 (177.80)	7.070 (179.58)	6.354 (161.40)	6.378 (162.00)	7.634 (193.90)	7.681 (195.10)	7.382 (187.50)	7.406 (188.10)	7.429 (188.70)	7.453 (189.30)	6.283 (159.60)	6.299 (160.00)
	26.00	TSH BLUE™ TL	5.039 (128.00)	2.096 (53.24)	7.000 (177.80)	7.070 (179.58)	6.264 (159.11)	6.288 (159.71)	7.634 (193.90)	7.681 (195.10)	7.453 (189.30)	7.476 (189.90)	7.504 (190.60)	7.528 (191.20)	6.201 (157.50)	6.217 (157.90)
	29.00	TSH BLUE™ TL	5.039 (128.00)	2.096 (53.24)	7.000 (177.80)	7.070 (179.58)	6.172 (156.77)	6.196 (157.37)	7.634 (193.90)	7.681 (195.10)	7.520 (191.00)	7.543 (191.60)	7.583 (192.60)	7.606 (193.20)	6.142 (156.00)	6.157 (156.40)
	32.00	TSH BLUE™ TL	5.039 (128.00)	2.096 (53.24)	7.000 (177.80)	7.070 (179.58)	6.082 (154.49)	6.106 (155.09)	7.693 (195.40)	7.740 (196.60)	7.583 (192.60)	7.606 (193.20)	7.654 (194.40)	7.677 (195.00)	6.031 (153.20)	6.047 (153.60)
	35.00	TSH BLUE™ TL	5.039 (128.00)	2.096 (53.24)	7.000 (177.80)	7.070 (179.58)	5.992 (152.20)	6.016 (152.80)	7.732 (196.40)	7.780 (197.60)	7.650 (194.30)	7.673 (194.90)	7.724 (196.20)	7.748 (196.80)	5.957 (151.30)	5.972 (151.70)



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			GENERAL		GENERAL				REGULAR		SPECIAL CLEARANCE		MATCHED STRENGTH		GENERAL	
DIAMETER	WEIGHT	PRODUCT	MINIMUM LENGTH	ADD. LENGTH 1 RECURT	OUTSIDE DIAMETER min	OUTSIDE DIAMETER max	INSIDE DIAMETER min	INSIDE DIAMETER max	OUTSIDE DIAMETER min	OUTSIDE DIAMETER max	OUTSIDE DIAMETER min	OUTSIDE DIAMETER max	OUTSIDE DIAMETER min	OUTSIDE DIAMETER max	INSIDE DIAMETER min	INSIDE DIAMETER max
in.	lb/ft	---	inch (mm)	inch (mm)	inch (mm)	inch (mm)	inch (mm)	inch (mm)	inch (mm)	inch (mm)	inch (mm)	inch (mm)	inch (mm)	inch (mm)	inch (mm)	inch (mm)
8.625	24.00	TSH BLUE™ TL	5.264 (133.70)	2.096 (53.24)	8.626 (219.10)	8.712 (221.29)	8.031 (204.00)	8.055 (204.60)	9.228 (234.40)	9.276 (235.60)	9.075 (230.50)	9.098 (231.10)	na (na)	na (na)	7.996 (203.10)	8.012 (203.50)
	28.00	TSH BLUE™ TL	5.264 (133.70)	2.096 (53.24)	8.626 (219.10)	8.712 (221.29)	7.995 (203.08)	8.019 (203.68)	9.228 (234.40)	9.276 (235.60)	9.075 (230.50)	9.098 (231.10)	9.067 (230.30)	9.091 (230.90)	7.960 (202.18)	7.976 (202.58)
	32.00	TSH BLUE™ TL	5.264 (133.70)	2.096 (53.24)	8.626 (219.10)	8.712 (221.29)	7.909 (200.89)	7.933 (201.49)	9.228 (234.40)	9.276 (235.60)	9.075 (230.50)	9.098 (231.10)	9.150 (232.40)	9.173 (233.00)	7.917 (201.09)	7.933 (201.49)
	36.00	TSH BLUE™ TL	5.264 (133.70)	2.096 (53.24)	8.626 (219.10)	8.712 (221.29)	7.813 (198.46)	7.837 (199.06)	9.346 (237.40)	9.394 (238.60)	9.144 (232.25)	9.167 (232.85)	9.232 (234.50)	9.256 (235.10)	7.832 (198.94)	7.848 (199.34)
	40.00	TSH BLUE™ TL	5.264 (133.70)	2.096 (53.24)	8.626 (219.10)	8.712 (221.29)	7.713 (195.92)	7.737 (196.52)	9.346 (237.40)	9.394 (238.60)	9.219 (234.15)	9.242 (234.75)	9.315 (236.60)	9.339 (237.20)	7.783 (197.69)	7.799 (198.09)
9.625	36.00	TSH BLUE™ TL	5.765 (146.44)	2.096 (53.24)	9.626 (244.50)	9.722 (246.95)	8.909 (226.29)	8.933 (226.89)	10.211 (259.35)	10.270 (260.85)	10.110 (256.80)	10.134 (257.40)	10.122 (257.10)	10.146 (257.70)	8.884 (225.65)	8.900 (226.05)
	40.00	TSH BLUE™ TL	5.765 (146.44)	2.096 (53.24)	9.626 (244.50)	9.722 (246.95)	8.823 (224.11)	8.847 (224.71)	10.211 (259.35)	10.270 (260.85)	10.110 (256.80)	10.134 (257.40)	10.197 (259.00)	10.220 (259.60)	8.845 (224.67)	8.861 (225.07)
	43.50	TSH BLUE™ TL	5.765 (146.44)	2.096 (53.24)	9.626 (244.50)	9.722 (246.95)	8.743 (222.08)	8.767 (222.68)	10.356 (263.05)	10.415 (264.55)	10.171 (258.35)	10.195 (258.95)	10.268 (260.80)	10.291 (261.40)	8.809 (223.76)	8.825 (224.16)
	47.00	TSH BLUE™ TL	5.765 (146.44)	2.096 (53.24)	9.626 (244.50)	9.722 (246.95)	8.669 (220.20)	8.693 (220.80)	10.356 (263.05)	10.415 (264.55)	10.226 (259.75)	10.250 (260.35)	10.331 (262.40)	10.354 (263.00)	8.728 (221.68)	8.743 (222.08)
	53.50	TSH BLUE™ TL	5.765 (146.44)	2.096 (53.24)	9.626 (244.50)	9.722 (246.95)	8.523 (216.49)	8.547 (217.09)	10.561 (268.25)	10.620 (269.75)	10.335 (262.50)	10.358 (263.10)	10.449 (265.40)	10.472 (266.00)	8.656 (219.85)	8.671 (220.25)
10.750	45.50	TSH BLUE™ TL	6.016 (152.80)	2.096 (53.24)	10.752 (273.10)	10.859 (275.83)	9.938 (252.43)	9.962 (253.03)	11.433 (290.40)	11.492 (291.90)	11.238 (285.45)	11.262 (286.05)	11.327 (287.70)	11.350 (288.30)	9.957 (252.91)	9.973 (253.31)
	51.00	TSH BLUE™ TL	6.016 (152.80)	2.096 (53.24)	10.752 (273.10)	10.859 (275.83)	9.838 (249.89)	9.862 (250.49)	11.433 (290.40)	11.492 (291.90)	11.317 (287.45)	11.341 (288.05)	11.413 (289.90)	11.437 (290.50)	9.912 (251.77)	9.928 (252.17)
	55.50	TSH BLUE™ TL	6.016 (152.80)	2.096 (53.24)	10.752 (273.10)	10.859 (275.83)	9.748 (247.60)	9.772 (248.20)	11.602 (294.70)	11.661 (296.20)	11.384 (289.15)	11.407 (289.75)	11.492 (291.90)	11.516 (292.50)	9.872 (250.76)	9.888 (251.16)
	60.70	TSH BLUE™ TL	6.016 (152.80)	2.096 (53.24)	10.752 (273.10)	10.859 (275.83)	9.648 (245.06)	9.672 (245.66)	11.602 (294.70)	11.661 (296.20)	11.459 (291.05)	11.482 (291.65)	11.575 (294.00)	11.598 (294.60)	9.772 (248.20)	9.787 (248.60)

BLANK OD and ID: The nominal blank ODs and IDs in the Pin Diameters and Box Diameters columns are finished product dimensions. When this minimum material is supplied, the blank OD and the blank ID must be true to each other within 0.010" TIR (Total Indicator Runout). If the blank dimensions are not true to each other within 0.010" TIR, but sufficient material is available, the part may still be suitable for threading. If sufficient material is not available, the part will be returned unthreaded.

na: Not Applicable.

Blank spaces indicate product not currently available.