

# Hyper Spool Fender



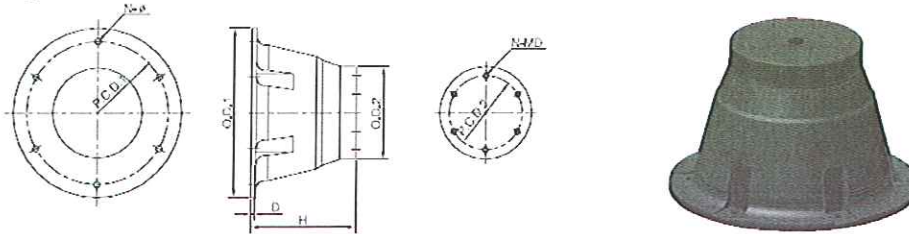
**Morse Rubber**

**J.H. MENGE & CO., INC. Representative**  
P.O. Box 23602 / 5825 Plaque Street  
New Orleans, LA 70123  
(504) 733-4871 / Fax (504) 734-1880

## Hyper Spool Fender

Hyper spool is a new circular type fender which is based on super spool fender. It is high-performance marine fender with superior durability.

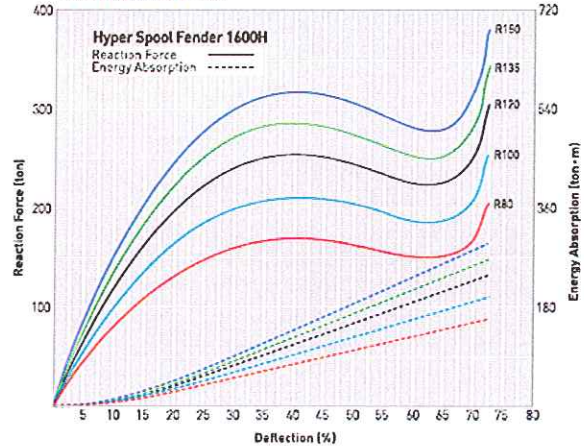
### Hyper Spool Fender Dimension



(Unit : mm)

Dimension Height	O.D.1	P.C.D.1	O.D.2	P.C.D.2	D	N-φ	N-MD
300H	500	440	262	210	18	4-26	4-M20
350H	575	510	306	245	20	4-26	4-M20
400H	650	585	350	280	20	4-26	4-M20
500H	820	730	436	350	22	4-30	4-M24
600H	900	810	525	420	23	4-30	4-M24
700H	1120	1020	615	490	26	4-38	4-M30
800H	1250	1165	700	560	31	6-44	6-M36
900H	1450	1313	785	630	36	6-44	6-M36
1000H	1600	1460	875	700	38	6-50	6-M42
1150H	1850	1550	1000	805	41	6-50	6-M42
1200H	1920	1750	1050	840	46	8-50	8-M48
1300H	2080	1900	1140	910	50	8-60	8-M48
1400H	2240	2040	1230	980	53	8-60	8-M48
1600H	2500	2330	1400	1120	80	8-60	8-M48
1800H	2880	2620	1575	1260	90	10-70	10-M56
2000H	3200	2920	1700	1400	100	10-70	10-M56

### Performance Curve



### Hyper Spool Fender Performance Table

Size	Performance		300H	400H	500H	600H	700H	800H	900H	1000H	1100H	1150H	1200H	1300H	1400H	1600H	1800H	2000H
	R150	70%	R(ton)	11.2	19.8	31.0	44.6	60.7	79.3	100.4	123.9	149.9	163.9	178.4	209.4	242.8	317.2	401.4
72.5%		E(ton-m)	1.9	4.4	8.6	14.9	23.7	35.3	50.3	69.0	91.8	104.9	119.2	151.6	189.3	282.6	402.4	552.0
R135	70%	R(ton)	13.5	24.0	37.5	54.0	73.5	96.0	121.5	150.0	181.5	198.4	216.0	253.5	294.0	384.0	486.0	600.0
	72.5%	E(ton-m)	2.0	4.6	9.1	15.6	24.9	37.1	52.8	72.5	96.4	110.2	125.2	159.2	198.8	296.8	422.5	579.6
R120	70%	R(ton)	10.0	17.8	27.9	40.1	54.6	71.4	90.3	111.5	134.9	147.5	160.6	188.5	218.6	285.5	361.3	446.0
	72.5%	E(ton-m)	1.7	4.0	7.8	13.4	21.3	31.8	45.3	62.1	82.7	94.4	107.3	136.4	170.4	254.4	362.2	496.8
R100	70%	R(ton)	12.2	21.6	33.8	48.6	66.2	86.4	109.4	135.0	163.4	178.5	194.4	228.2	264.6	345.6	437.4	540.0
	72.5%	E(ton-m)	1.8	4.2	8.2	14.1	22.4	33.4	47.5	65.2	86.8	99.2	112.7	143.3	178.9	267.1	380.3	521.6
R80	70%	R(ton)	8.9	15.9	24.8	35.7	48.6	63.4	80.3	99.1	119.9	131.1	142.7	167.5	194.3	253.7	321.1	396.5
	72.5%	E(ton-m)	1.5	3.5	6.9	11.9	18.9	28.3	40.2	55.2	73.5	84.0	95.4	121.3	151.5	226.1	321.9	441.6
R100	70%	R(ton)	10.8	19.2	30.0	43.2	58.8	76.8	97.2	120.0	145.2	158.7	172.8	202.8	235.2	307.2	388.8	480.0
	72.5%	E(ton-m)	1.6	3.7	7.2	12.5	19.9	29.7	42.3	58.0	77.1	88.1	100.2	127.3	159.0	237.4	338.0	463.7
R100	70%	R(ton)	7.4	13.2	20.7	29.7	40.5	52.9	66.9	82.6	99.9	109.2	118.9	139.6	161.9	211.5	267.6	330.4
	72.5%	E(ton-m)	1.2	2.9	5.8	9.9	15.8	23.6	33.5	46.0	61.2	70.0	79.5	101.1	126.2	188.4	268.3	368.0
R80	70%	R(ton)	9.0	16.0	25.0	36.0	49.0	64.0	81.0	100.0	121.0	132.3	144.0	169.0	196.0	256.0	324.0	400.0
	72.5%	E(ton-m)	1.3	3.1	6.0	10.4	16.6	24.7	35.2	48.3	64.3	73.5	83.5	106.1	132.5	197.8	281.7	386.4
R80	70%	R(ton)	5.9	10.6	16.5	23.8	32.4	42.3	53.5	66.1	80.0	87.4	95.2	111.7	129.5	169.2	214.1	264.3
	72.5%	E(ton-m)	1.0	2.4	4.6	7.9	12.6	18.8	26.8	36.8	49.0	56.0	63.6	80.8	101.0	150.7	214.6	294.4
R80	70%	R(ton)	7.2	12.8	20.0	28.8	39.2	51.2	64.8	80.0	96.8	105.8	115.2	135.2	156.8	204.8	259.2	320.0
	72.5%	E(ton-m)	1.0	2.5	4.8	8.3	13.3	19.8	28.2	38.6	51.4	58.8	66.8	84.9	106.0	158.3	225.3	309.1

- R : F : Reaction Force (ton) - E : A : Energy Absorption (ton-m) - Rated Deflection : 70% - Maximum deflection : 72.5%