



FENDER SOLUTION SERVICE

Tamp Company Catalog

TAMP



ABOUT US 04

EQUIPMENT 08

PRODUCTS 09

FOAM FILLED FENDER

PNEUMATIC FENDER

FENDER DAVIT SYSTEM

RUBBER FENDER

SHIP FENDER

OTHER FENDERS

MARINE RUBBER AIRBAGS

CHOCK

ACCESSORY



CEO MESSAGE

‘진심은 말하지 않아도 저 멀리서 꽃가루처럼 날아 스며든다’ 라는 말이 있습니다.

기업은 반드시 이익을 내야 하고 그 이익을 내는 과정에서 정직해야 합니다. 과정의 정직을 통해 주변의 많은 사람과 기관에 도전을 주고 노력한 대가만을 이익으로 거두며 떳떳한 성공을 통해 부자답게 살지 않는 부자, 존경받는 부자가 되고자 합니다.

품질과 신뢰를 전달 드리는 탬프 주식회사가 되겠습니다.

감사합니다.



탬프주식회사
CEO 서민아

>>CORE VALUE



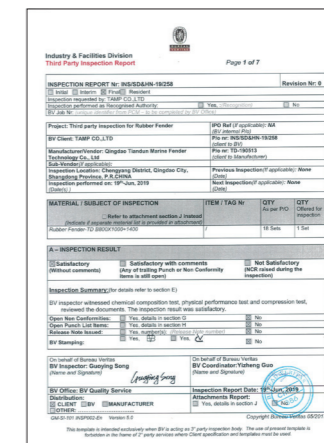
>>CERTIFICATES



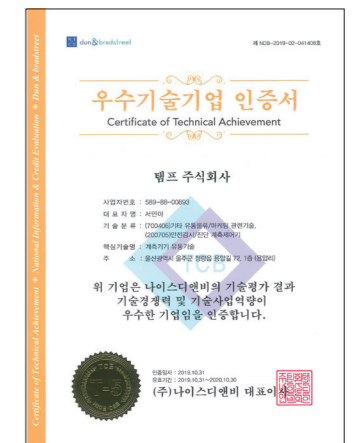
ISO 14001:2015



ISO 9001:2015



BUREAU VERITAS
CERTIFICATE



CERTIFICATE OF TECHNICAL
ACHIEVEMENT

GLOBAL NETWORK



ASIA

Japan
China
Hong Kong
Thailand
Singapore
Indonesia

OCEANIA

Australia

MIDDLE EAST

Turkey
Dubai

AFRICA

Nigeria

EUROPE

Russia
Germany
France
Netherlands

SOUTH AMERICA

Mexico
Panama



“세월호” 인양 시 TAMP 회사 FENDER 제품 사용

CALENDER LINE



LARGE VULCANIZING PLANT



TEST EQUIPMENT



PRODUCTS

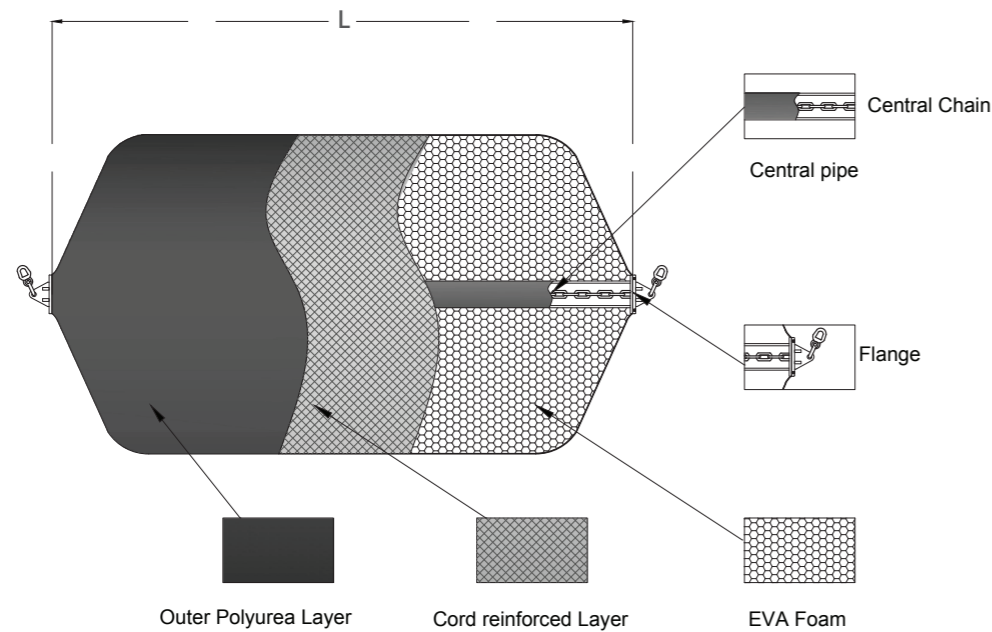
- FOAM FILLED FENDER
- PNEUMATIC FENDER
- FENDER DAVIT SYSTEM
- RUBBER FENDER
- SHIP FENDER
- OTHER FENDERS
- MARINE RUBBER AIRBAGS
- CHOCK
- ACCESSORY



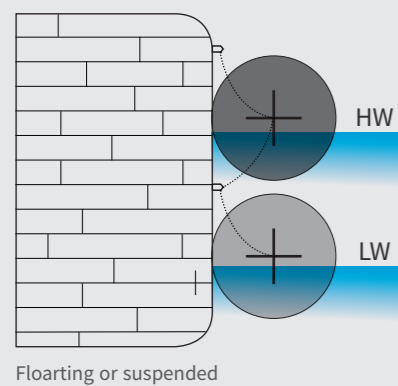
FOAM FILLED FENDER



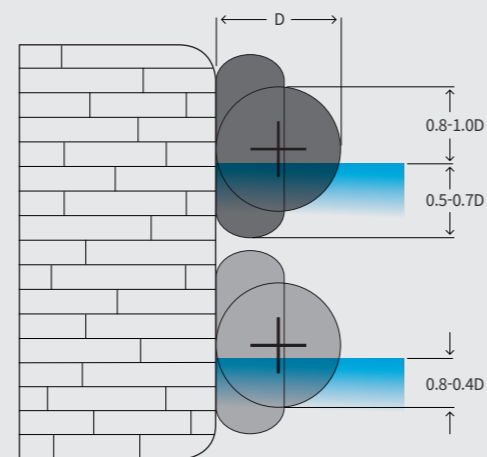
>>DRAWING



Mooring application



Mounting area



>>DIMENSION TABLE

CODE	Diameter X Length(mm)	LOW REACTION		STANDARD		HIGH CAPACITY	
		ENERGY	REACTION	ENERGY	REACTION	ENERGY	REACTION
TPFF-6001200	600X1200	9	53	15	89	19	116
TPFF-6002000	600X2000	15	86	23	142	30	188
TPFF-7001500	700X1500	16	80	226	133	34	173
TPFF-9001500	900X1500	25	120	42	200	54	262
TPFF-9001800	900X1800	32	128	53	214	69	276
TPFF-9002500	900X2500	45	182	75	302	98	391
TPFF-10001500	1000X1500	28	104	47	173	61	225
TPFF-10002000	1000X2000	41	152	68	254	88	330
TPFF-12002000	1200X2000	55	168	91	280	118	364
TPFF-12003000	1200X3000	96	297	160	494	207	364
TPFF-13502500	1350X2500	91	251	152	418	198	543
TPFF-15003000	1500X3000	147	357	244	596	317	774
TPFF-15005500	1500X5500	290	710	484	1183	629	1539
TPFF-18005000	1800X5000	347	707	579	1179	752	1535
TPFF-18006000	1800X6000	430	875	695	1395	896	1806
TPFF-20003500	2000X3500	272	507	454	845	590	1099
TPFF-20004500	2000X4500	374	697	624	1161	811	1509
TPFF-21005000	2100X5000	467	814	778	1357	1011	1766
TPFF-21005500	2100X5500	537	937	895	1561	1163	2028
TPFF-21006000	2100X6000	602	1015	985	1689	1298	2195
TPFF-25004000	2500X4000	481	718	801	1797	1041	1556
TPFF-25005500	2500X5500	720	1073	1200	1788	1560	2324
TPFF-27004500	2700X4500	634	859	56	1432	1372	1859
TPFF-27005500	2700X5500	840	1140	1399	1899	1820	2469
TPFF-27006500	2700X6500	1072	1455	1787	2424	2323	3154
TPFF-30005500	3000X5500	1023	1249	1706	2082	2217	2705
TPFF-30006000	3000X6000	1111	1377	1851	2295	2406	2984
TPFF-30007000	3000X7000	1335	1689	2215	2721	2889	2532
TPFF-30004500	3000X4500	899	1014	1498	1690	1947	2197
TPFF-33006500	3300X6500	1453	1639	2421	2731	3147	3550
TPFF-34006500	3400X6500	1554	1725	2590	2874	3366	3737
TPFF-40008000	4000X8000	2636	2629	4393	4381	/	/

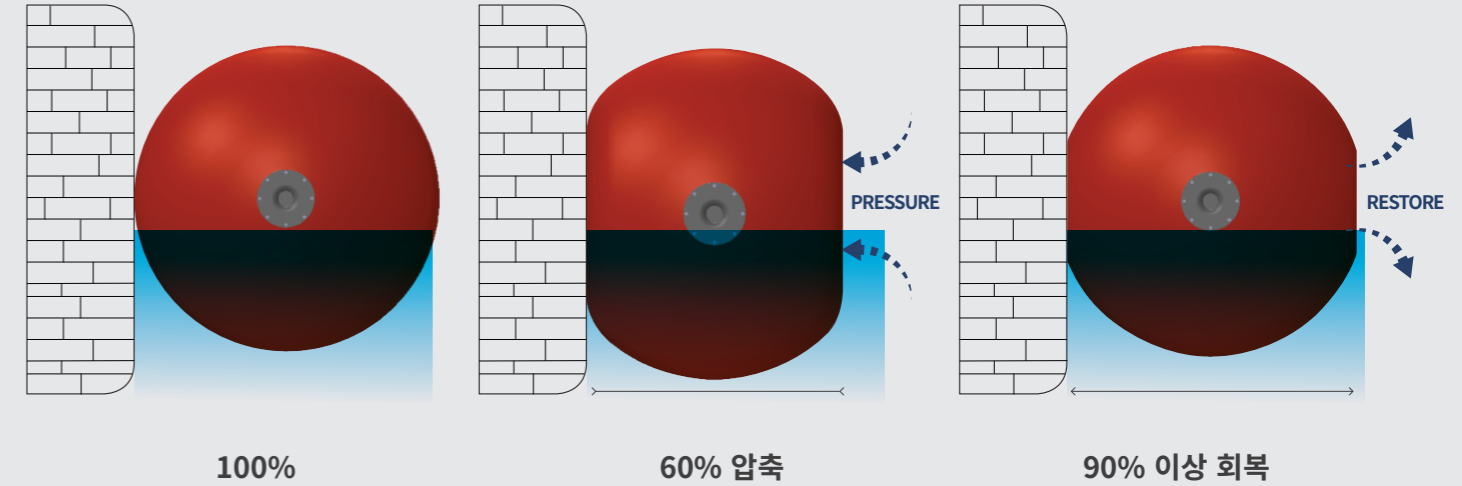
Supporting structures must be large enough to cope with tides and the fender footprint when compressed.

FOAM FILLED FENDER

>>COMPRESSION TEST

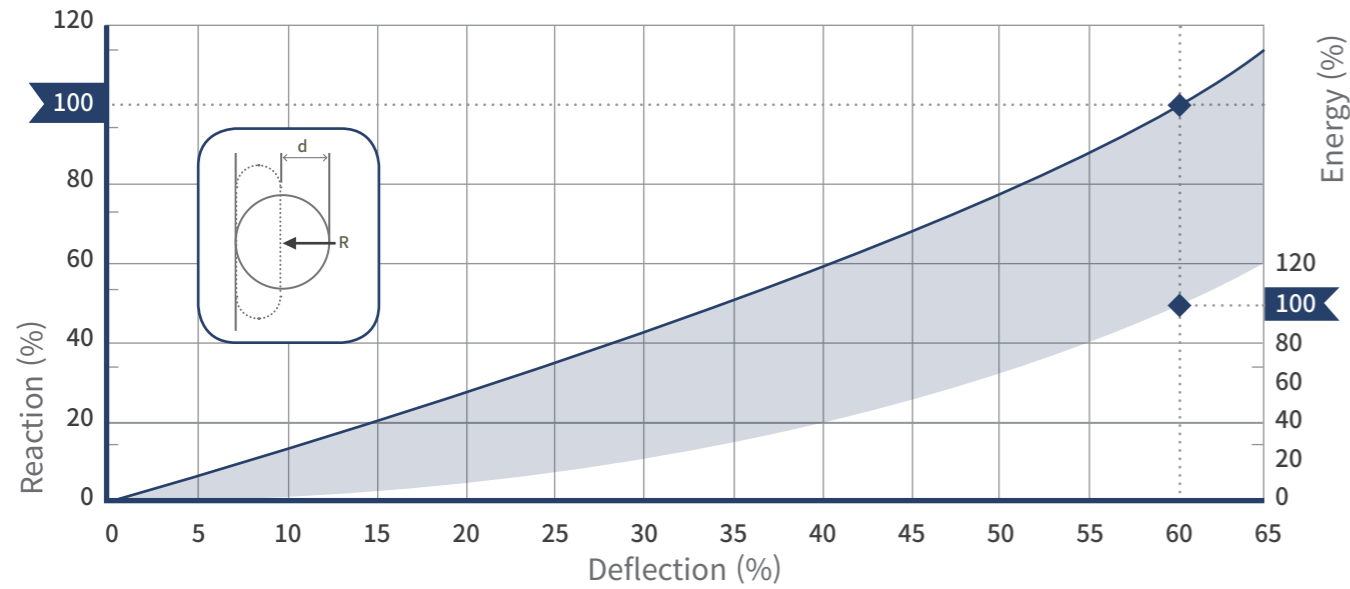


>>CHECKNG FORCE OF RESTORATION



>>PERFORMANCE CURVE

Note : Standard manufacturing and performance tolerance :
Energy : 100%, Reaction : 100%, Tolerance : ±10%



Foam Filled Fender 압축후 본체의 90% 이상 복원가능

>>TAMP-FOAM FILLED FENDER FEATURE



<폴리우레아 코팅>

TAMP회사의 FOAM FILLED FENDER는 100% 폴리우레아 코팅이며, 추후 수리 가능합니다.



POLYUREA COATED FOAM FILLED FENDER

1. 강도 높은 유연성을 가지고 있어 충격에 강함
2. 물과 온도의 영향을 거의 받지 않으며 기후변화, 습기, 열, 냉기 등의 영향을 적게 받는다.
3. 압축 후 회복함
4. TAMP에서 수리 가능



POLYURETHANE COATED FOAM FILLED FENDER

1. 초기 코팅은 부드럽고 탄력성 있지만 충격에 약함
2. 물과 온도의 영향을 많이 받는다.
3. 강한 충격에 균열발생, 회복불가 (폴리우레탄 코팅 시 강한 태풍 및 압력에 의해 옆 사진처럼 깨지는 문제가 발생할 수 있음)
4. 수리불가

PNEUMATIC FENDER



AIR FENDER WITH TIRE

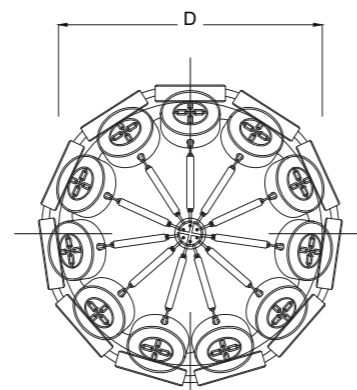
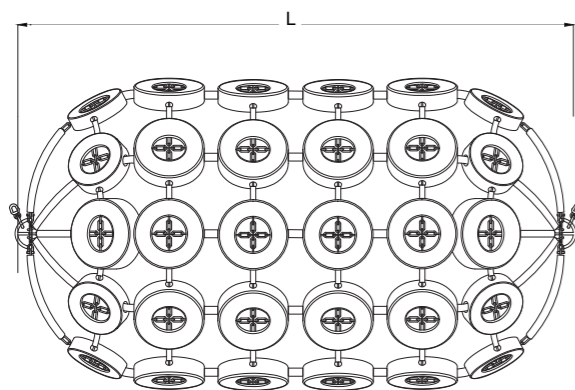
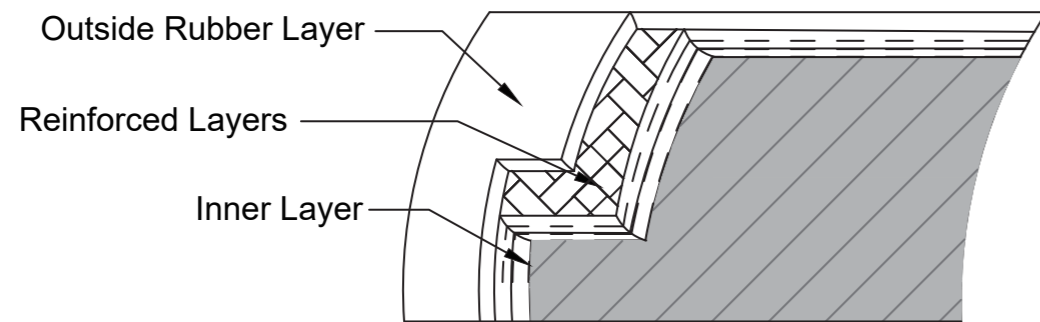


NEO FENDER

>>PERFORMANCE



>>DRAWING

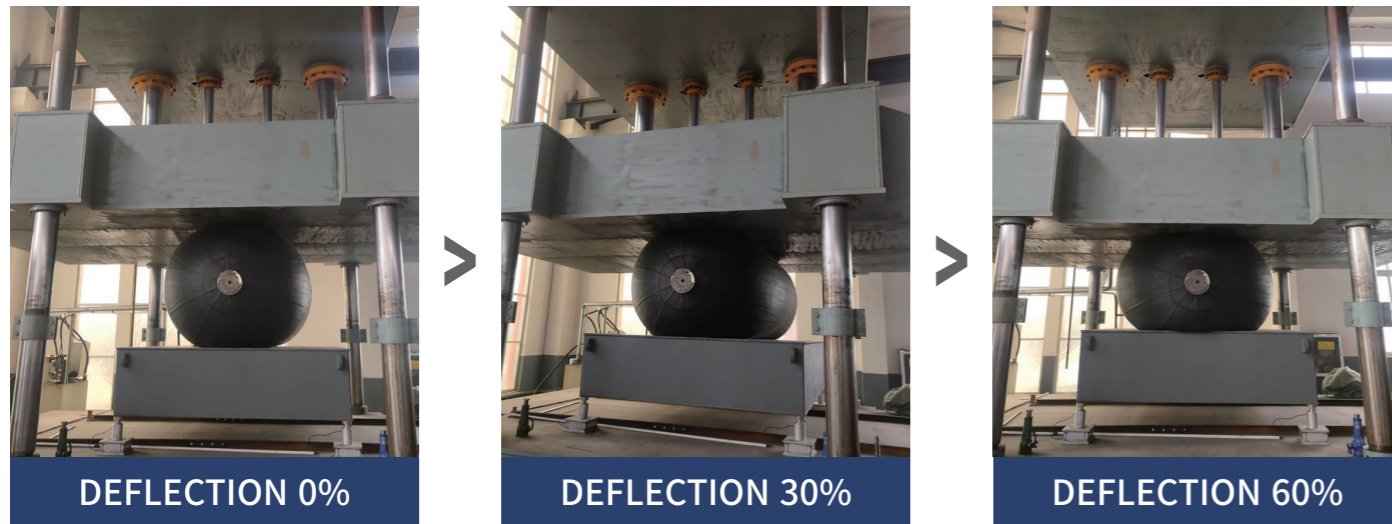


>>DIMENSION AND PERFORMANCE TABLE

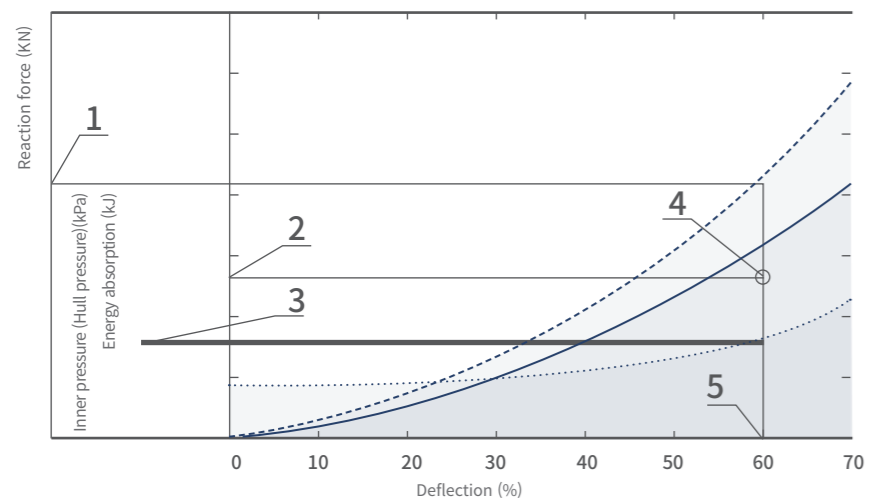
CODE	Diameter X Length(mm)	50kPa at 60% compression		80kPa at 60% compression	
		GEA KJ	RF KN	GEA KJ	RF KN
TPPF-5001000	500X1000	6	64	8	80
TPPF-7001500	700X1500	17	137	21	171
TPPF-10001500	1000X1500	32	181	40	266
TPPF-13502500	1350X2500	100	426	125	533
TPPF-15003000	1500X3000	153	579	191	724
TPPF-20003500	2000X3500	308	875	385	1094
TPPF-25004000	2500X4000	663	1380	829	1725
TPPF-30005000	3000X5000	1050	2030	1313	2538
TPPF-33006500	3300X6500	1814	3015	2523	3961
TPPF-45009000	4500X9000	4752	5747	6633	7551

PNEUMATIC FENDER

>>COMPRESSION TEST



>>PERFORMANCE CURVE



- Key**
- 1 reaction force at GEA deflection
 - 2 guaranteed energy absorption (GEA)
 - 3 hull pressure at GEA deflection
 - 4 point A
 - 5 GEA deflection
 - energy absorption
 - - - reaction force
 - inner pressure

>>PNEUMATIC FENDER-REPAIR SERVICE



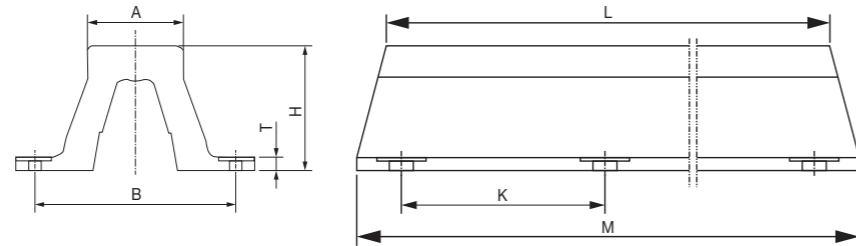
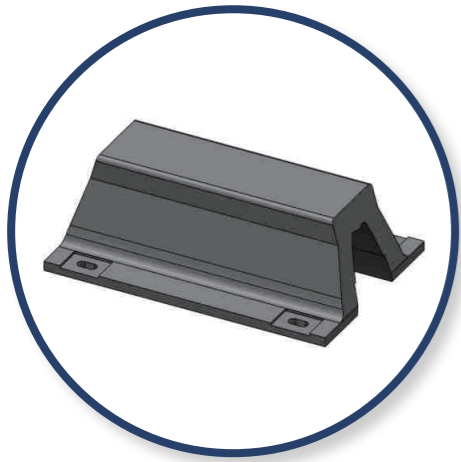
FENDER DAVIT SYSTEM



- Safely store the Fenders on deck
- Automatic Installation with Lifting Wire
- Fender Deployment Systems to deploy, retrieve and store fenders.

RUBBER FENDER

>>NV FENDER



>>DIMENSION TABLE

DIMENSION CODE	DIMENSION (mm)	A	B	T	C min.	Hole size	Fixings	Weight (kg/m)
TPNV-150H	98	240	25	30	40X20	M16	37	
TPNV-200H	130	320	30	30	58X29	M24	60	
TPNV-250H	165	410	33	30	64X32	M30	90	
TPNV-300H	245	490	33	30	70X35	M30	120	
TPNV-400H	320	670	40	30	82X41	M36	210	
TPNV-500H	395	840	45	30	94X47	M42	330	
TPNV-600H	470	1010	54	30	100X50	M48	480	
TPNV-800H	600	1340	72	30	136X68	M64	880	
TPNV-1000H	750	1680	90	30	136X68	M64	1395	

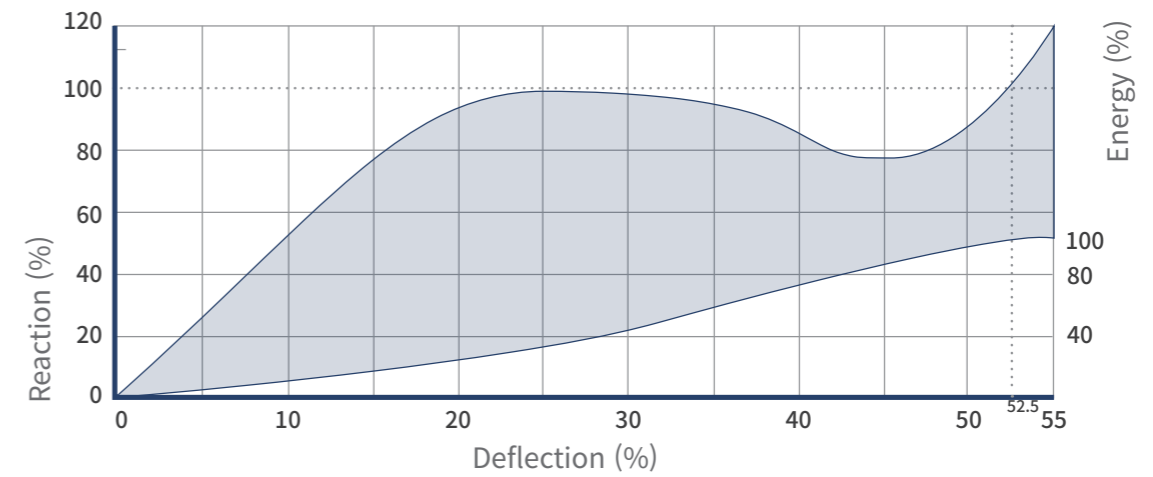
H	L=1000(n=4)		L=1500(n=6)		L=2000(n=8)		L=2500(n=8)		L=3000(n=10)		L=3500(n=12)	
	K	M	K	M	K	M	K	M	K	M	K	M
150H	900	1100	700	1600	620	2100	-	-	-	-	-	-
200H	860	1100	680	1600	620	2100	785	2600	715	3100	672	3600
250H	865	1125	680	1625	620	2125	790	2625	715	3125	673	3625
300H	870	1150	685	1650	625	2150	790	2650	715	3150	674	3650
400H	900	1200	700	1700	635	2200	800	2700	725	3200	680	3700
500H	930	1250	715	1750	645	2250	810	2750	730	3250	686	3750
600H	960	1300	730	1800	655	2300	820	2800	740	3300	692	3800
800H	1040	1400	770	1900	680	2400	845	2900	760	3400	-	-
1000H	1100	1500	800	2000	700	2500	650	3000	620	3500	-	-



>>COMPRESSION TEST



>>PERFORMANCE CURVE



>>INTERMEDIATE FACTORS

Deflection%	0	5	10	15	20	25	30	35	40	45	50	52.5
Reaction force%	0	27	53	75	91	99	99	93	85	82	92	100
Energy absorption%	0	1	6	14	25	37	50	62	73	84	94	100

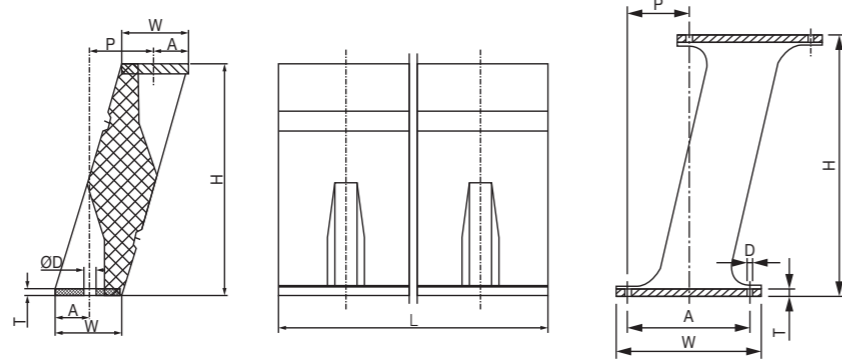
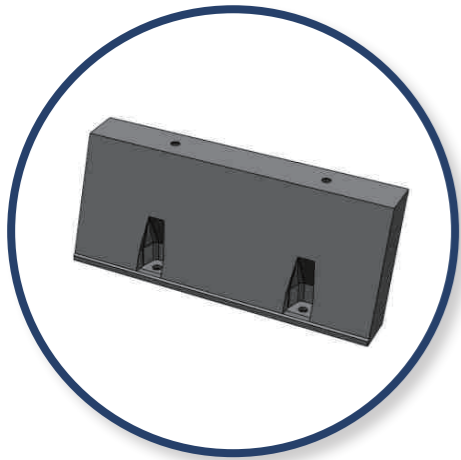
>>PERFORMANCE TABLE

Specification	P01		P0		P1		P2	
	RF	EA	RF	EA	RF	EA	RF	EA
TPNV-150H	56	3	84	4	112	6	129	7
TPNV-200H	75	5	110	8	150	10	170	11
TPNV-250H	148	16	172	18	208	22	270	28
TPNV-300H	175	22	204	26	248	31	322	41
TPNV-400H	234	41	275	46	330	57	430	74
TPNV-500H	294	63	344	72	414	88	538	114
TPNV-600H	351	89	412	104	496	126	644	164
TPNV-800H	470	159	550	185	661	223	862	290
TPNV-1000H	588	246	688	290	829	348	1078	452

TOLERANCE +-10% RF= Reaction Force (KN) EA=Energy Absorption (KN.m)
Deflection 52.5% Performance are per Fender 1meter length.

RUBBER FENDER

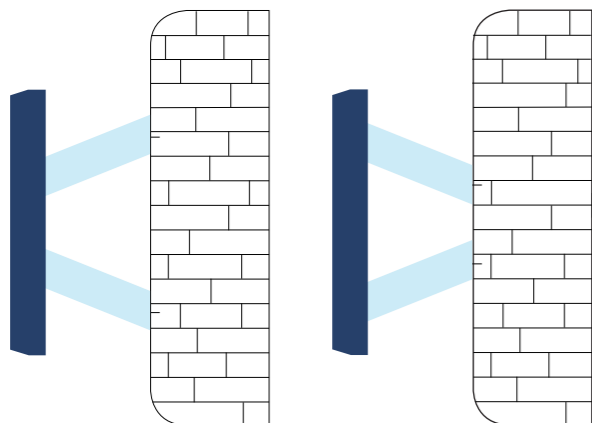
>>IT Fender



>>DIMENSION TABLE

CODE	DIMENSION (mm)	H	W	P	A	D	T	Weight (kg)
TPIT-400H		400	125	124	63	28	17	94
TPIT-500H		500	158	142	87	36	20	120
TPIT-600H		600	188	200	87	36	20	180
TPIT-750H		750	235	230	118	43	26	242
TPIT-800H		800	250	240	129	43	26	290
TPIT-1000H		1000	322	310	162	50	31	453
TPIT-1250H		1250	400	390	196	56	36	664
TPIT-1400H		1400	440	445	215	56	41	821
TPIT-1450H		1450	454	454	228	56	41	880
TPIT-1600H		1600	500	480	257	64	50	1227
TPIT-1700H		1700	1050	430	860	42	75	1520
TPIT-2000H		2000	1200	500	1000	50	60	2200

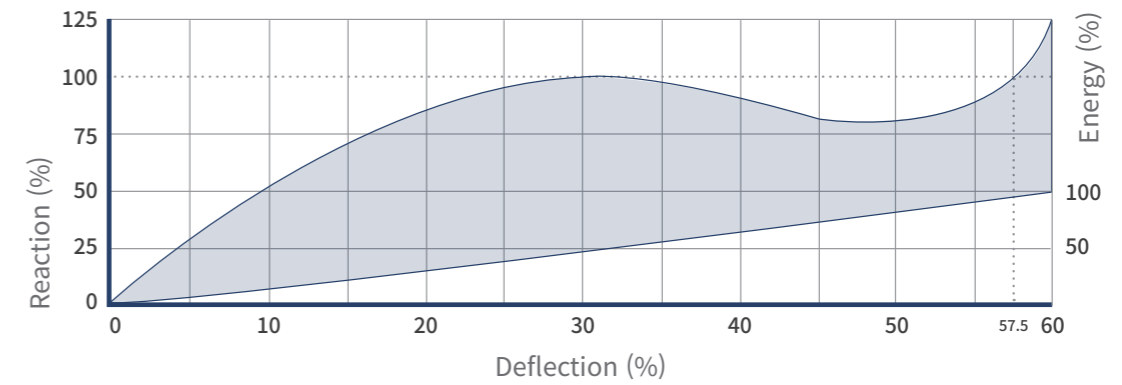
>>INSTALLATION



>>COMPRESSION TEST



>>PERFORMANCE CURVE



>>INTERMEDIATE FACTORS

Deflection%	0	5	10	15	20	25	30	35	40	45	50	55	57.5
Reaction force%	0	29	56	77	92	99	100	98	93	89	88	94	100
Energy absorption%	0	2	6	14	25	36	48	59	69	78	86	95	100

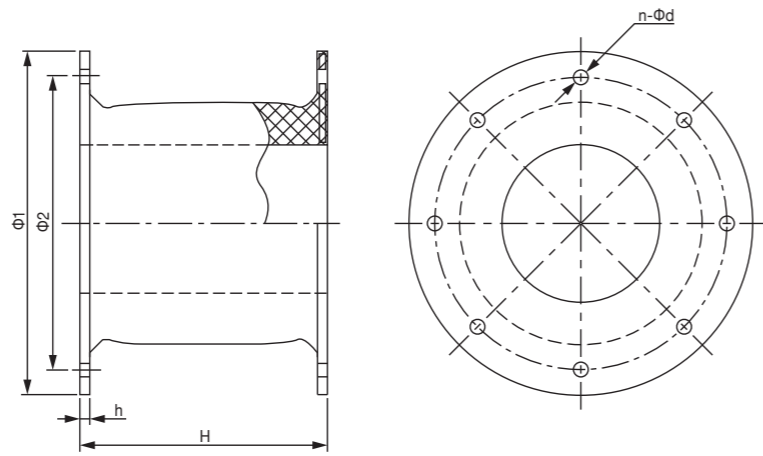
>>PERFORMANCE TABLE

Specification	P01		P0	
	RF	EA	RF	EA
TPIT-400H	214	39	149	27
TPIT-500H	265	61	186	43
TPIT-600H	320	88	224	62
TPIT-750H	401	137	281	96
TPIT-800H	428	157	299	110
TPIT-1000H	534	245	374	172
TPIT-1250H	667	383	467	268
TPIT-1400H	748	483	521	336
TPIT-1450H	782	522	543	361
TPIT-1600H	854	628	598	440
TPIT-1700H	922	754	718	528
TPIT-2000H	1170	965	889	733

TOLERANCE +-10% RF= Reaction Force (KN) EA=Energy Absorption (KN.m)
Deflection 57.5% Performance are per Fender 1meter length.

RUBBER FENDER

>>CELL Fender



>>DIMENSION TABLE

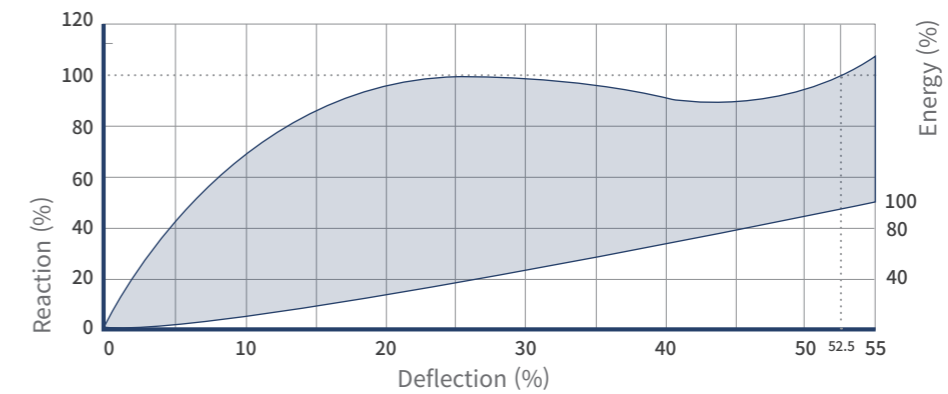
CODE	DIMENSION (mm)	H	h	Φ1	Φ2	n	Fixings	Weight (kg)
TPCE-400H		400	25	650	550	4	M24	75
TPCE-500H		500	25	650	550	4	M24	95
TPCE-630H		630	25	840	700	4	M30	220
TPCE-800H		800	30	1050	900	6	M33	400
TPCE-1000H		1000	35	1300	1100	6	M39	790
TPCE-1150H		1150	37	1500	1300	6	M42	1200
TPCE-1250H		1250	40	1650	1450	6	M45	1500
TPCE-1450H		1450	42	1850	1650	6	M52	2300
TPCE-1600H		1600	45	2000	1800	8	M52	3000
TPCE-1700H		1700	50	2100	1900	8	M56	3700
TPCE-2000H		2000	50	2200	2000	8	M64	5000
TPCE-2250H		2250	57	2550	2300	10	M64	7400
TPCE-2500H		2500	70	2950	2700	10	M64	10700
TPCE-3000H		3000	75	3350	3150	12	M76	18500



>>COMPRESSION TEST



>>PERFORMANCE CURVE



>>INTERMEDIATE FACTORS

Deflection%	0	5	10	15	20	25	30	35	40	45	50	52.5
Reaction force%	0	38	70	89	98	100	99	97	95	95	97	100
Energy absorption%	0	2	8	17	28	39	51	62	73	84	94	100

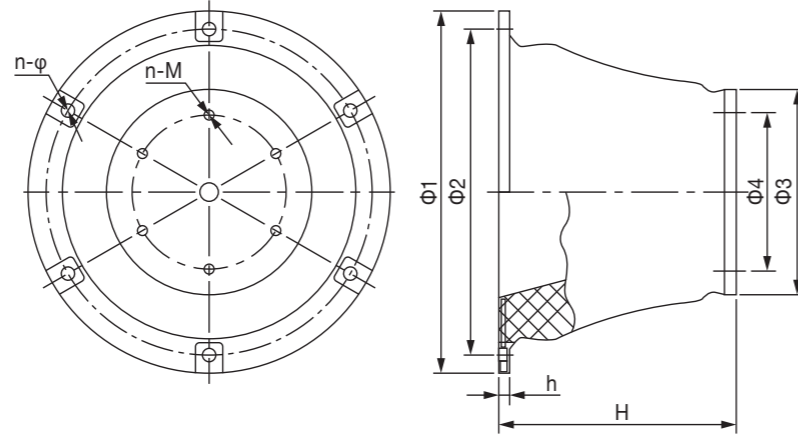
>>PERFORMANCE TABLE

Specification	P01		P0		P1		P2		P3	
	RF	EA	RF	EA	RF	EA	RF	EA	RF	EA
TPCE-400H	54	10	72	13	96	16	106	19	120	21
TPCE-500H	89	20	112	25	143	32	165	36	187	41
TPCE-630H	140	39	175	48	228	63	263	73	296	82
TPCE-800H	211	75	280	98	330	118	383	138	431	154
TPCE-1000H	355	158	445	195	572	252	660	289	747	325
TPCE-1150H	470	240	589	297	760	388	885	445	990	505
TPCE-1250H	552	306	696	382	902	497	1042	574	1175	655
TPCE-1450H	750	478	936	596	1215	776	1402	895	1580	1008
TPCE-1600H	894	640	1140	801	1351	970	1558	1150	1756	1260
TPCE-1700H	1027	769	1287	960	1672	1250	1928	1442	2171	1624
TPCE-2000H	1425	1252	1781	1564	2310	2040	2668	2348	2995	2645
TPCE-2250H	2125	2104	2505	2472	3249	3215	3748	3703	4226	4179
TPCE-2500H	2624	2885	3088	3391	4012	4410	4630	5088	5217	5732
TPCE-3000H	3730	4894	4380	5754	5676	7472	-	-	-	-

TOLERANCE +-10% RF= Reaction Force (KN) EA=Energy Absorption (KN.m) Deflection 52.5%

RUBBER FENDER

>>CONE FENDER



>>DIMENSION TABLE

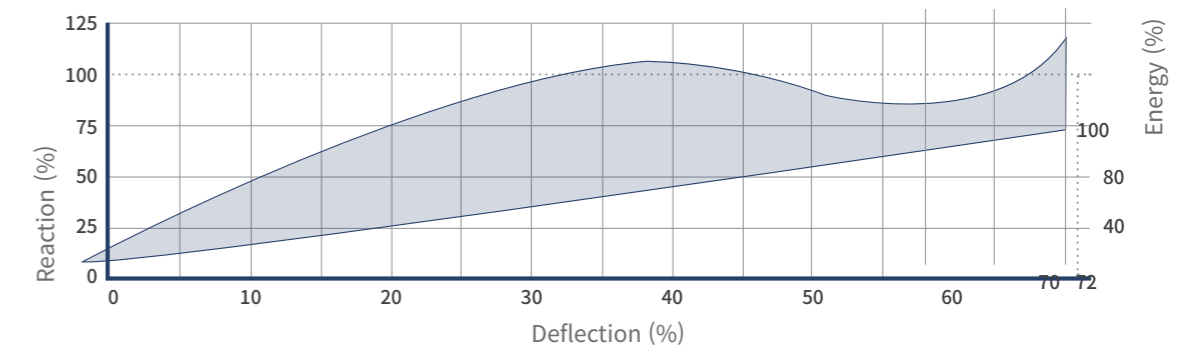
CODE	DIMENSION (mm)	H	h	Φ1	Φ2	Φ3	Φ4	n	Fixings	Weight (kg)
TPCO-350H		350	22	570	510	330	275	4	M20	50
TPCO-400H		400	18	600	532	335	256	4	M24	75
TPCO-500H		500	23	750	675	425	325	4	M24	135
TPCO-600H		600	27	900	810	510	390	6	M30	230
TPCO-700H		700	32	1050	945	595	455	6	M30	350
TPCO-800H		800	36	1200	1080	680	520	6	M36	540
TPCO-860H		860	38	1290	1160	730	560	6	M36	600
TPCO-900H		900	41	1350	1215	765	585	6	M36	760
TPCO-950H		950	43	1425	1282	810	618	6	M36	900
TPCO-1000H		1000	45	1500	1350	850	650	6	M42	1050
TPCO-1100H		1100	49.5	1650	1485	935	715	6	M42	1400
TPCO-1150H		1150	52	1725	1552.5	977.5	750	6	M42	1600
TPCO-1200H		1200	54	1800	1620	1020	780	8	M42	1950
TPCO-1250H		1250	56	1875	1690	1060	810	8	M42	2100
TPCO-1300H		1300	58.5	1950	1755	1105	845	8	M48	2400
TPCO-1400H		1400	63	2100	1890	1190	910	8	M48	2880
TPCO-1600H		1600	72	2400	2160	1360	1040	8	M48	4510
TPCO-1800H		1800	78	2700	2430	1530	1170	10	M56	6400
TPCO-2000H		2000	78	3000	2700	1700	1300	10	M56	9050



>>COMPRESSION TEST



>>PERFORMANCE CURVE



>>INTERMEDIATE FACTORS

Deflection%	0	10	20	30	40	50	60	70
Reaction force%	0	35	66	91	100	93	85	100
Energy absorption%	0	4	15	30	49	67	83	100

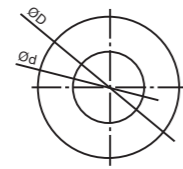
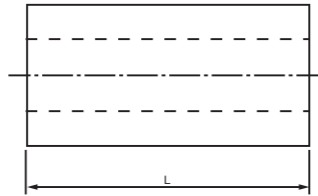
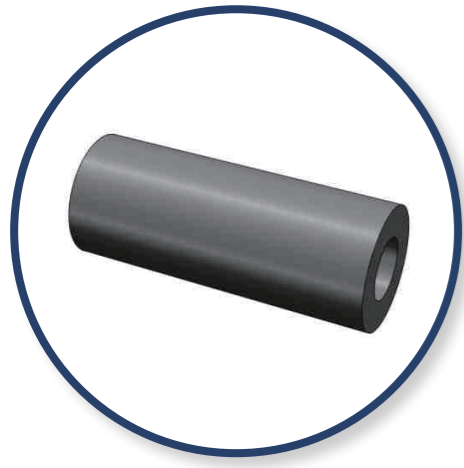
>>PERFORMANCE TABLE

Specification	P01		P0		P1		P2	
	RF	EA	RF	EA	RF	EA	RF	EA
TPCO-350H	-	-	84	13.5	116	18.8	136	21.8
TPCO-400H	-	-	118	22	148	31	183	36
TPCO-500H	-	-	185	42.6	230	53.7	280	65.2
TPCO-600H	192	61	250	78	320	101	416	132
TPCO-700H	285	103	360	131	450	166	565	208
TPCO-800H	355	151	450	189	570	245	734	314
TPCO-860H	420	190	535	243	675	306	860	390
TPCO-900H	469	215	593	278	751	351	939	442
TPCO-950H	529	260	668	332	844	421	1035	531
TPCO-1000H	578	296	730	377	920	478	1168	604
TPCO-1100H	707	375	886	498	1120	638	1400	801
TPCO-1150H	788	460	971	569	1227	721	1539	902
TPCO-1200H	821	508	1040	642	1300	806	1650	1033
TPCO-1250H	915	595	1150	748	1445	940	1815	1180
TPCO-1300H	992	665	1240	840	1560	1050	1945	1313
TPCO-1400H	1154	824	1431	1022	1819	1308	2260	1623
TPCO-1600H	1516	1288	1818	1533	2334	1959	2942	2488
TPCO-1800H	1817	1695	2328	2172	2974	2767	3763	3540
TPCO-2000H	2356	2444	2912	3022	3670	3813	4634	4800

TOLERANCE +-10% RF= Reaction Force (KN) EA=Energy Absorption (KN.m) Deflection 70%

RUBBER FENDER

>>CYLINDRICAL FENDER



>>DONUT FENDER

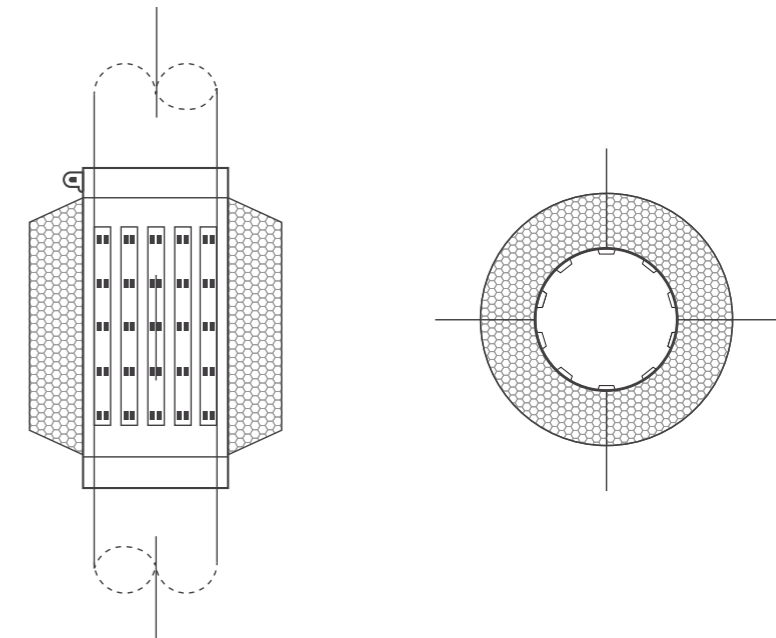


Donut fenders are designed to float up and down with the tide on a circular mono-pile either driven into the bed or mounted on the face of a quay wall. Donut fenders are suited for lock entrances, turning structures, approach channels and breasting dolphins. Not only do Donut fenders rise and fall with the tide but due to the low friction guiding through a channel. Construction of a Donut fender is much the same as a Foam Filled Floating Fender giving them all the ideal properties for optimal, maintenance free use. As with the foam fenders any variation of size is feasible allowing the fender to be sized to fit purpose, they are unsinkable and can be finished in a variety of colors.

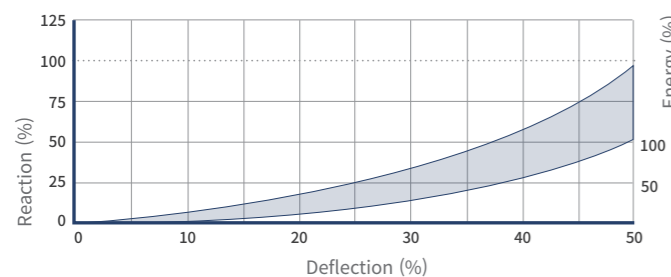
>>DIMENSION TABLE

CODE	DIMENSION (mm)	D	d	Max.Length(L)	Weight(kg)	Remarks
TPCY-Φ150XΦ75		150	75	10000	17	Other specifications can be manufactured according to the requirement of customers.
TPCY-Φ200XΦ100		200	100	10000	30	
TPCY-Φ250XΦ125		250	125	10000	47	
TPCY-Φ300XΦ150		300	150	10000	67	
TPCY-Φ400XΦ200		400	200	8000	118	
TPCY-Φ500XΦ250		500	250	8000	184	
TPCY-Φ600XΦ300		600	300	3000	265	
TPCY-Φ700XΦ350		700	350	3000	360	
TPCY-Φ800XΦ400		800	400	3000	469	
TPCY-Φ900XΦ450		900	450	3000	594	
TPCY-Φ1000XΦ500		1000	500	3000	733	
TPCY-Φ1200XΦ600		1200	600	3000	1055	
TPCY-Φ1400XΦ700		1400	700	3000	1434	
TPCY-Φ1600XΦ800		1600	800	3000	1872	
TPCY-Φ1800XΦ900		1800	900	3000	2370	
TPCY-Φ2000XΦ1000		2000	1000	3000	2925	

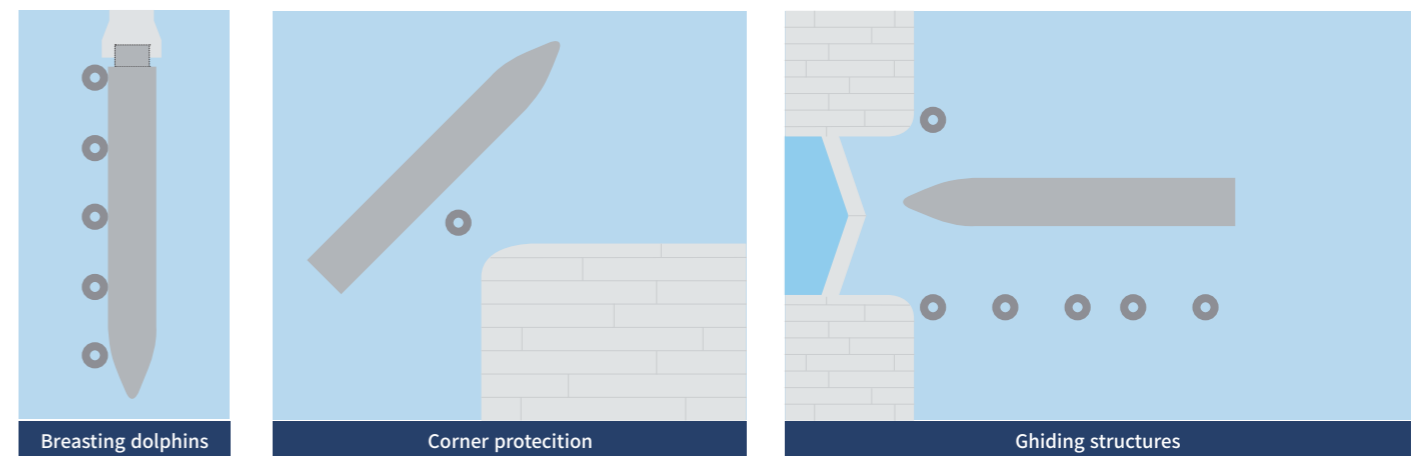
>>DRAWING



>>PERFORMANCE CURVE

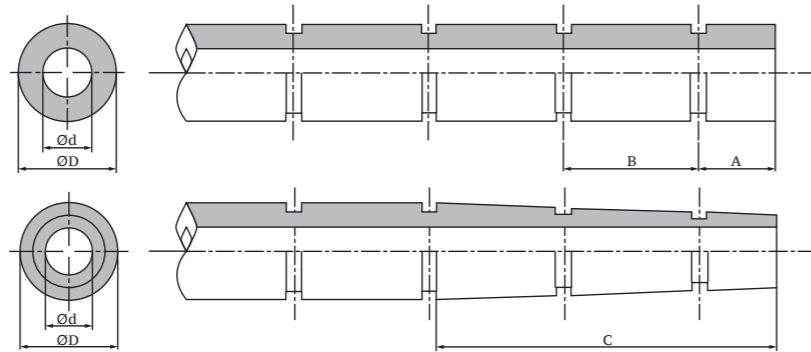


>>APPLICATIONS

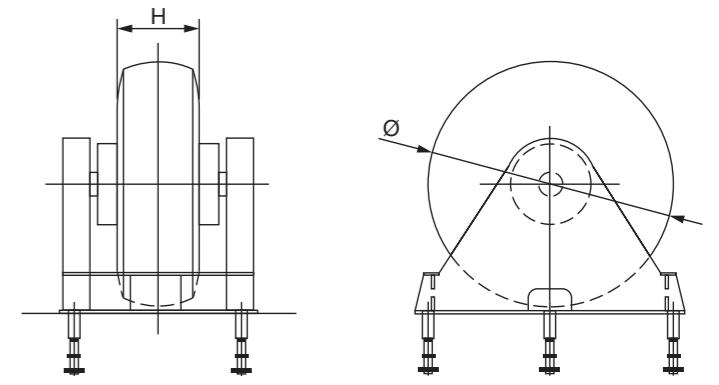
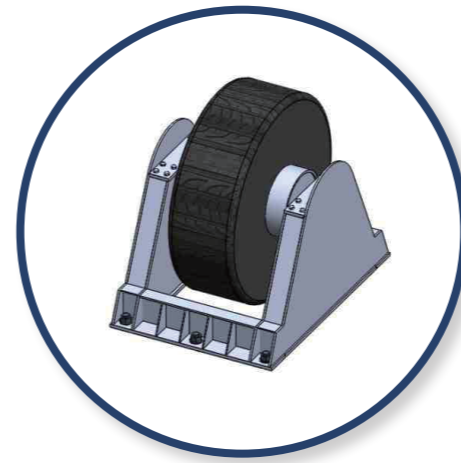


SHIP FENDER

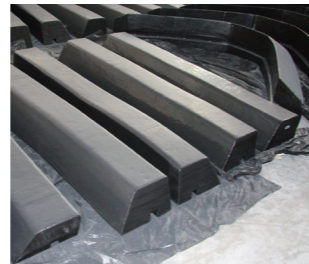
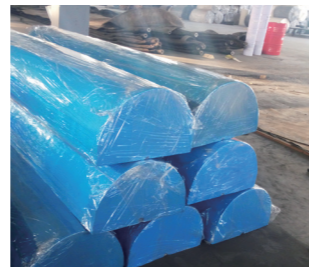
>>TUG BOAT RUBBER FENDER



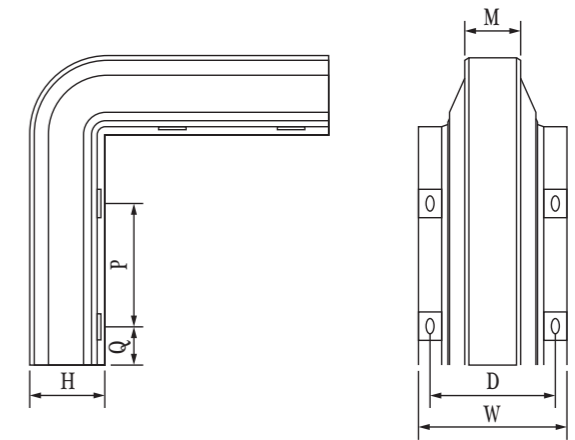
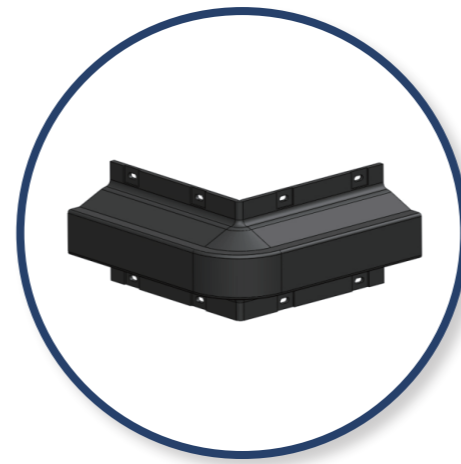
>>ROLLER FENDER



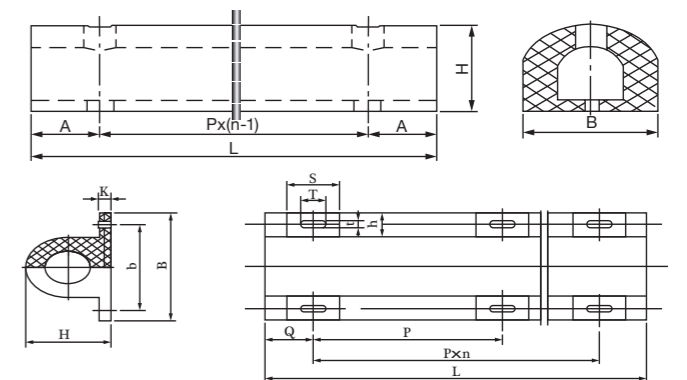
>>BOAT SIDE FOAM FENDERS



>>DOCK CORNER FENDER



>>SEMICIRCLE RUBBER FENDER



OTHER FENDERS

>>PORTABLE FENDERS



With same structure as normal foam fenders, portable foam fenders are used for small boat or yachts. The size is from 300mmX500mm to 8000mmX15,000mm. Portable foam fenders have a rope through it or a flange at end for chains or ropes.

>>SHALLOW SEA BUOY



Shallow Sea Buoys use a high-tech elastic EVA (Ethylene-vinylacetate) as a buoyancy medium. The exterior is spray coated with using special dust-free spraying equipment imported from the USA. Tamp has developed many kinds of shallow sea marine floating buoys using EVA elastomer innovative technologies and have won many national invention patents.

MARINE RUBBER AIRBAGS

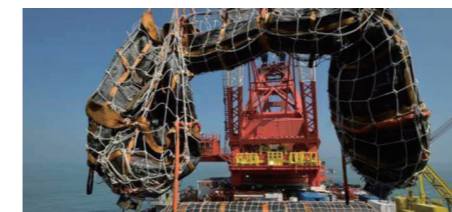
>>SHIP LAUNCHING AIRBAGS



Marine Rubber Airbags are applicable for Ship launching and Docking, Marine Salvage and Heavy Objects Transportation.

Marine airbags are widely used for ship launching and docking in shipyards, specially medium and small shipyards alongside rivers and seashores in Asian and American countries. Marine airbags are often called ship launching airbags that indicate the most popular application of these heavy duty airbags is for ship launching. It is estimated that more than 80 percent new built ships whose DWT below 60,000 are launched by airbags.

>>MARINE SALVAGE

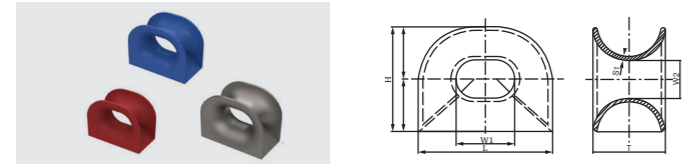


The other application of marine airbags is marine salvage of sunken vessels underwater by refloating them up. Firstly calculate the necessary buoyancy to float a vessel up. Use a number of airbags in suitable sizes, binding them alongside the vessel sides or setting them into the cabinets. Inflate the airbag to displace the water and float the vessel up slowly.

CHOCK

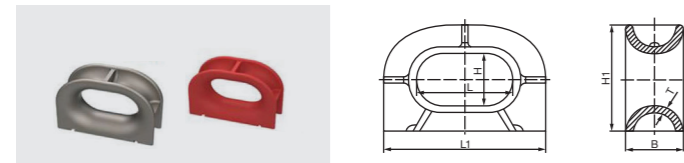
>>DIN 81915 Type C Closed chock

Material: GS-38.3 DIN1681/ZG230-450 GB/T11352-2009



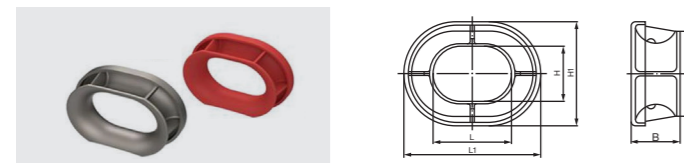
Type (mm)	SWL (KN)	Dimensions							Mass (kg)
		W1	W2	L1	H	H1	B	S1	
C1	10	125	90	285	250	125	160	10	19.5
C2	20	160	115	360	315	157.5	200	12	29
C3	30	200	140	450	390	195	250	14	48
C5	50	250	180	550	480	240	300	16	85
C8	80	320	225	680	585	292.5	360	18	136
C12	120	400	270	840	710	355	440	20	211
C20	200	500	320	1020	840	420	520	22	325
C32	320	600	400	1300	1100	550	700	35	840

>>JIS F2005 Closed Chock



Nominal size(mm)	Dimensions						Mass (kg)	Nominal dia. Of applicable chain cable and rope(reference)	
	L	L1	H	H1	B	T		Wire rope	Hemp rope
250	250	434	200	372	160	24	48	20(6X12)	50
300	300	528	250	464	200	28	83	22.4(6X12)	60
350	350	600	250	485	220	30	103	24(6X24)	70
400	400	672	250	506	240	32	136	26(6X24)	80
450	450	746	250	528	260	36	184	30(6X24)	85
500	500	820	250	550	280	40	232	35.5(6X24)	90

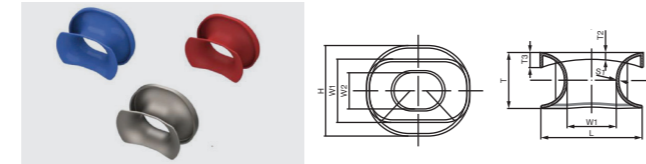
>>JIS F2007 Bulwark Chock A type



Nominal size(mm)	Dimensions						Mass (kg)	Nominal dia. Of applicable chain cable and rope(reference)	
	L	L1	H	H1	B	T		Wire rope	Hemp rope
250	250	430	200	380	308	155	27	20(6X12)	50
300	300	500	250	450	372	169	43	22.4(6X12)	60
350	350	560	250	460	378	179	51	24(6X24)	70
400	400	632	250	482	394	185	77	26(6X24)	80
450	450	700	250	500	406	209	102	30(6X24)	85
500	500	760	250	510	412	219	115	35.5(6X24)	90

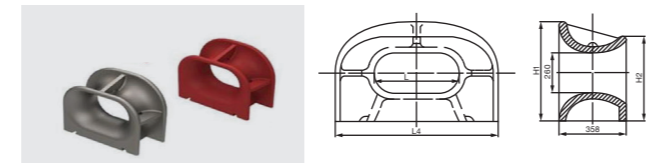
>>DIN 81915 Type A Bulwark chock

Material: GS-38.3 DIN 1681/ZG230-450 GB/ T11352-2009



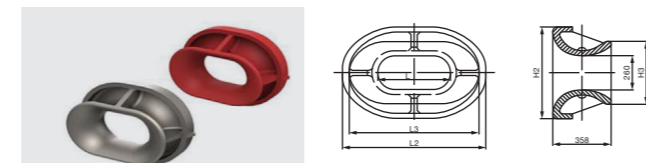
Type (mm)	SWL (KN)	Dimensions							Mass (kg)
		W1	W2	L1	H	H1	B	S1	
A1	10	125	90	285	250	175	160	10	18
A2	20	160	115	360	315	225	200	12	26
A3	30	200	140	450	390	275	250	14	42
A5	50	250	180	550	480	340	300	16	74
A8	80	320	225	680	585	415	360	18	120
A12	120	400	270	840	710	500	440	20	185
A20	200	500	320	1020	840	595	520	22	285
A32	320	600	400	1300	1100	800	700	35	795

>>JIS F2017-AC Closed Chock



Nominal size(mm)	Dimensions				Mass (kg)
	L	L1	H1	H2	
310	310	708	639	541	253
360	360	760	640	542	289
400	400	804	642	545	323
450	450	856	643	547	351
500	500	908	644	549	395

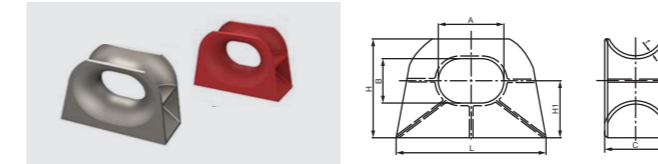
>>JIS F2017-BC Bulwark Chock



Nominal size(mm)	Dimensions					Mass (kg)
	L	L1	L3	H2	H3	
310	310	734	652	684	462	276
360	360	788	704	688	464	305
400	400	832	750	692	470	344
450	450	886	802	696	474	385
500	500	940	854	700	478	422

>>Towing Chock-EU Type(Deck Mounted)

Material: GS-38.3 DIN 1681/ZG230-450 GB/ T11352-2009

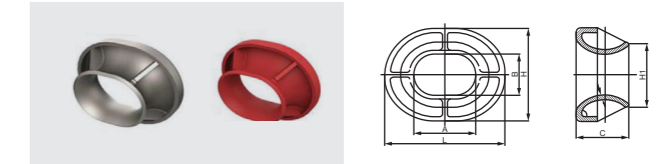


Nominal size(mm)	SWL (KN)	Dimensions							Mass (kg)
		A	B	L	H	H1	C	t	
400X250	700	400	250	804	385	305	632	36	310
600X450	1020	600	450	1360	1000	575	560	32	680
600X450	2000	600	450	1360	1000	575	560	36	750
600X450	2500	600	450	1360	1000	575	560	40	820

Nominal size L*H*D	Dimensions(mm)									SWL		Wire rope dia(mm)	Mass (kg)
	I1	I2	I3	I4	H1	H2	H3	df	T	(KN)	(t)		
250X200X214	488	453	76	265	427	368	108	108	22	226	23	18	73
300X250X286	614	565	89	330	551	481	144	144	26	422	43	24	142
350X250X333	716	660	114	403	601	525	168	168	30	549	56	28	222
400X250X381	820	754	139	475	652	553	192	192	36	687	70	32	310
450X250X381	870	804	164	524	652	553	192	192	36	706	72	32	322
500X250X381	920	854	189	574	652	553	192	192	36	765	78	32	337
400X250v428	870	796	139	500	701	609	216	216	38	883	90	36	434
450X250X428	920	846	164	550	701	609	216	216	38	912	93	36	452
500X250X428	970	896	189	600	701	609	216	216	38	932	95	36	472
500X400X428	970	896	176	600	851	759	216	216	38	893	91	36	528
500X250X525A	1068	1000	190	652	798	675	264	264	40	1148	117	44	657
500X400X525A	1068	1000	193	652	948	825	264	264	40	1158	118	44	724
500X250X525B	1074	1000	176	652	801	680	264	264	46	1413	144	44	753
500X400X525B	1074	1000	179	652	951	830	264	264	46	1383	141	44	825

Nominal size L*H*D	Dimensions(mm)						SWL		Wire rope dia(mm)	Mass (kg)	
	I1	I2	H1	H2	d1	d2	T	(KN)			(t)
250X200X214	516	441	466	306	108	80	12	226	23	18	49
300X250X286	638	554	588	410	144	100	16	422	43	24	100
350X250X333	736	646	636	449	168	120	18	549	56	28	141
400X250X381	834	736	684	450	192	120	20	687	70	32	184
450X250X381	884	786	684	450	192	120	20	706	72	32	194
500X250X381	934	836	684	450	192	120	20	765	78	32	202
400X250v428	882	778	732	515	216	120	22	883	90	36	264
450X250X428	932	828	732	515	216	120	22	912	93	36	276
500X250X428	982	878	732	515	216	120	22	932	95	36	288
500X400X428	982	878	882	665	216	120	22	893	91	36	311
500X250X525A	1078	976	828	551	264	120	24	1148	117	44	379
500X400X525A	1078	978	978	701	264	120	24	1158	118	44	408
500X250X525B	1078	976	828	554	264	120	26	1413	144	44	405
500X400X525B	1078	978	978	704	264	120	26	1383	141	44	442

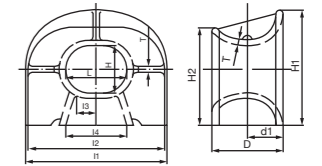
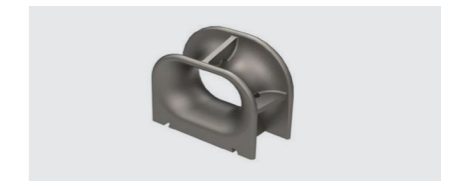
>>Towing Chock-EU Type(Bulwark Mounted)



Nominal size(mm)	SWL (KN)	Dimensions						Mass (kg)	
		A	B	L	H	H1	C		t
425X280	700	400	280	920	780	516	450	36	358
600X450	1020	600	450	1160	1010	706	504	32	629
600X450	2040	600	450	1160	1010	706	504	40	680
600X450	2500	600	450	1160	1010	706	504	50	850

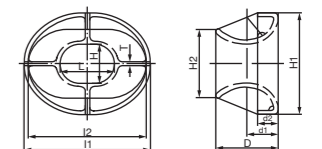
>>ISO13729 Deck chock Material

Material: ZG230-450 GB/T11352-2009

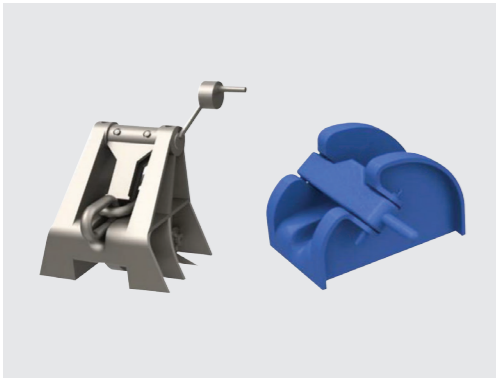


>>ISO13729 Bulwark Chock

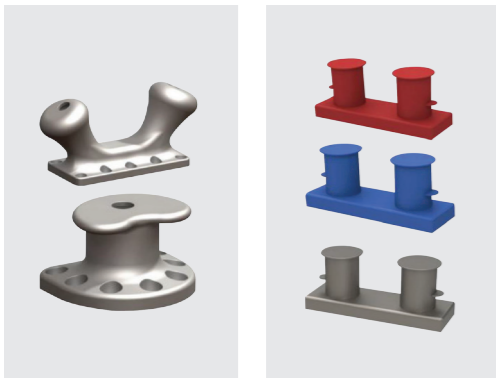
Material: ZG230-450 GB/T11352-2009



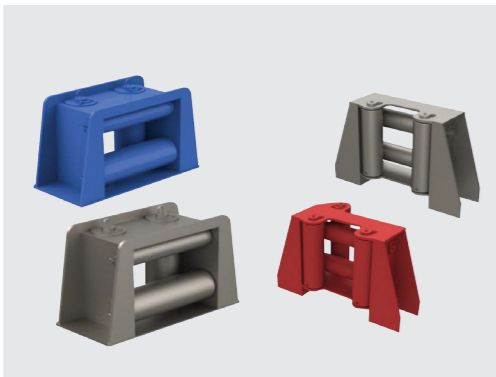
ACCESSORY



CHAIN CABLE STOPPER



BOLLARD DOBLE BOLLARD



FAIRLEADS



CHAIN & ACCESSORIES



STEEL WIRE ROPE



ANCHOR

FENDER SOLUTION SERVICE

Tamp Company Catalog



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