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Deck Equipment

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Panama chocks



Panama chocks



Panama chocks



Panama chocks



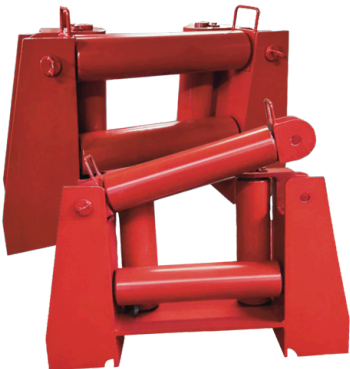
Panama chocks EU type



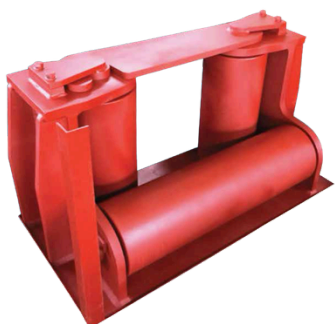
Panama chocks C - type



Electric nocks



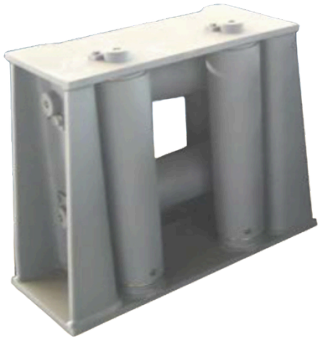
Fairlead rollers universal



Fairlead rollers universal



Fairlead rollers universal



Fairlead rollers universal



Fairlead rollers



Double bollard



Double bollard



Double bollard



Cross bollard



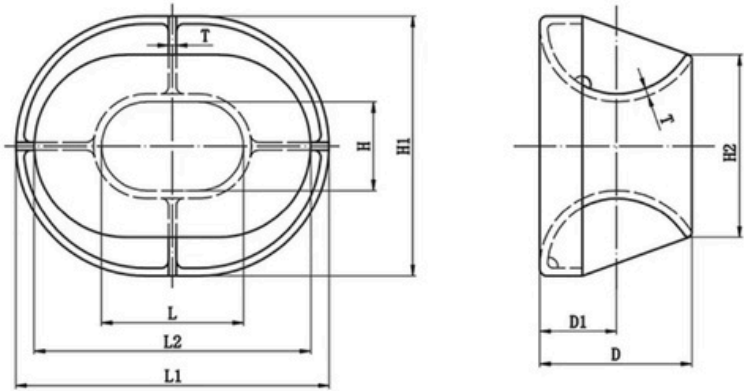
Low bollards



Bolted bollards for shore

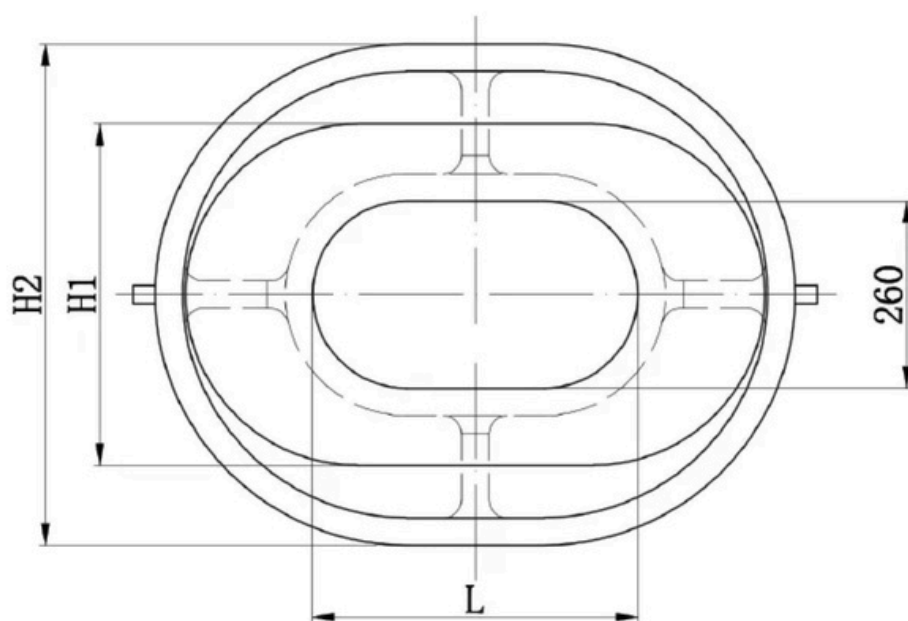
PANAMA CHOCK

Type A (LXHXD)	(D mm) L1	(D mm) L2	(D mm) H1	(D mm) H2	(D mm) D1	(D mm) T
250x200x214	516	441	466	306	108	22
300x250x286	638	554	588	410	144	16
350x250x333	736	646	636	449	168	18
400x250x381	834	736	684	450	192	20
450x250x381	884	786	684	450	192	20
500x250x381	934	836	684	450	192	20
400x250x428	882	778	732	515	216	22
450x250x428	932	828	732	515	216	22
500x250x428	982	878	732	515	216	22
500x400x428	982	878	882	665	216	22
500x250x525A	1078	976	828	551	264	24
500x400x525A	1078	978	978	701	264	24
500x250x525B	1078	976	828	554	264	26
500x400x525B	1078	978	978	704	264	26



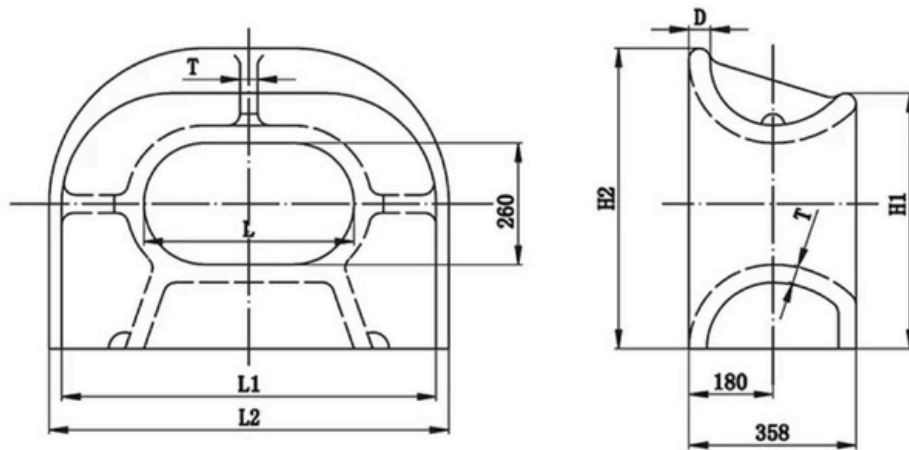
PANAMA CHOCK

Type	SWL (T)	(D mm) L	(D mm) L1	(D mm) L2	(D mm) H1	(D mm) H2	(D mm) T
BC-310	30	310	652	734	462	684	32
BC-360	46	360	704	788	464	688	34
BC-400	64	400	750	832	470	692	36
BC-450	80	450	802	886	474	696	38
BC-500	90	500	854	940	478	700	40



PANAMA CHOCK

Type	SWL (T)	(D mm) L	(D mm) L1	(D mm) L2	(D mm) H1	(D mm) H2	(T mm)
AC310	30	310	652	708	541	639	31
AC360	46	360	704	760	542	640	31
AC400	64	400	750	804	545	642	31
AC450	80	450	802	856	547	643	31
AC500	90	500	854	908	549	644	41

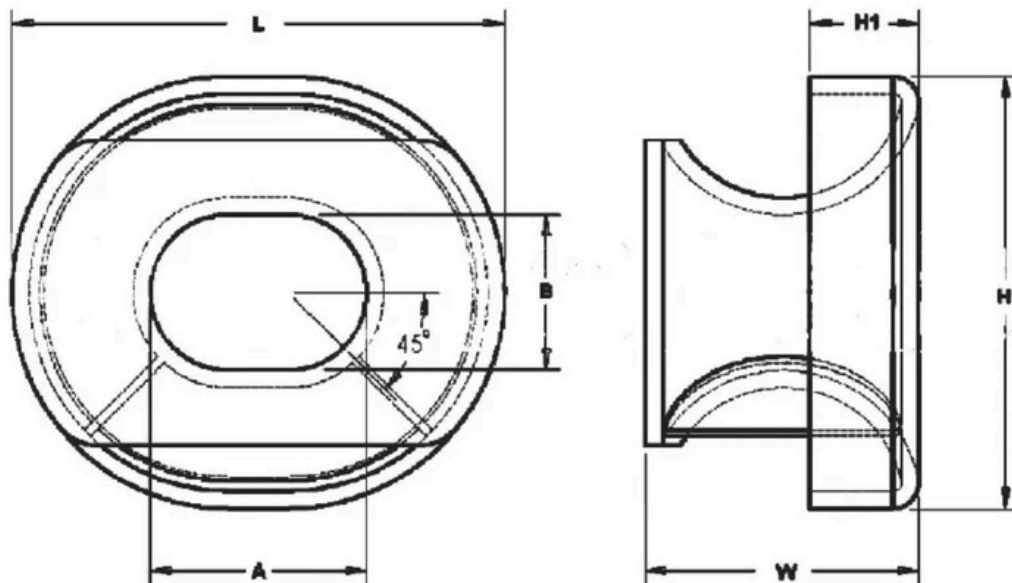


PANAMA CHOCK

Model	SWL (kN)	Weight (kg)	(D mm) L	(D mm) W	(D mm) H	(D mm) H
A2	20	26	360	200	315	70
A3	30	42	450	250	390	75
A5	50	74	550	300	480	80
A8	80	120	680	360	585	90
A12	125	185	840	440	710	110
A20	200	285	1020	520	840	130
A32	320	795	1300	700	1100	150

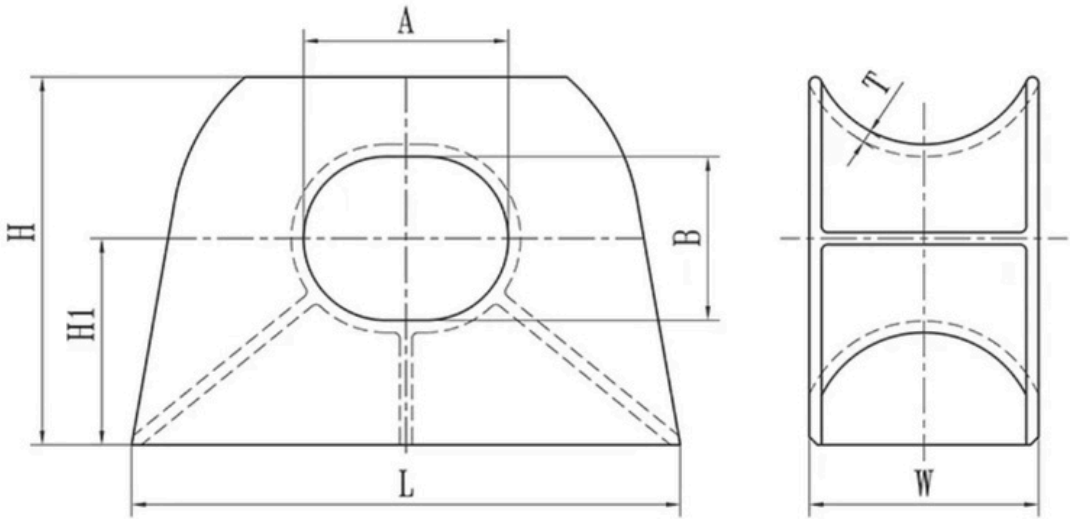
Remark : Type A2 – A8 = Single Chock according to Panama Rules.

Type A12 – A32 = Double Chock according to Panama Rules.



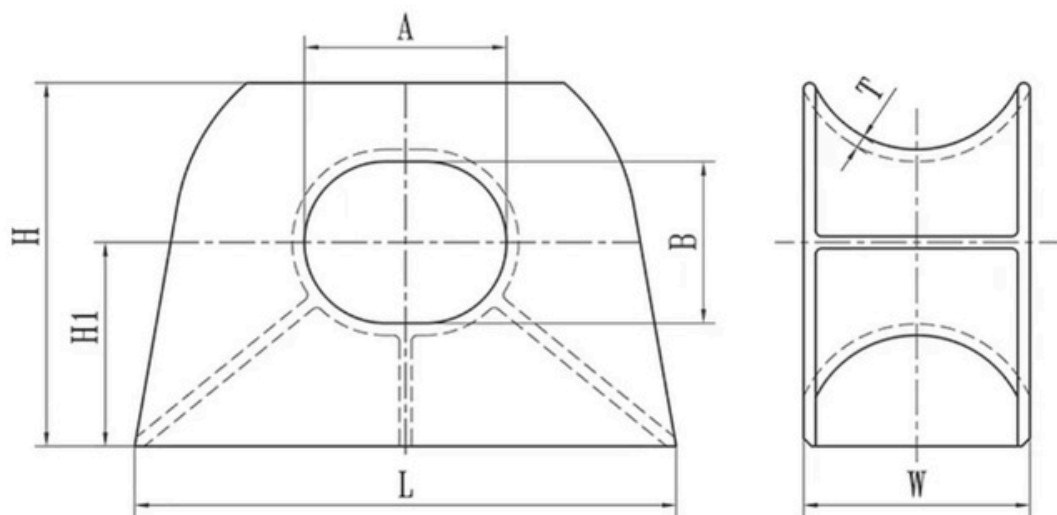
PANAMA CHOCK EU - TYPE

Model	SWL (T)	(D mm) L	(D mm) W	(D mm) H	(D mm) H 1	(D mm) T
425×280	70	1075	500	785	450	26
600×450	102	1360	560	1000	575	32
600×450	204	1360	560	1000	575	36
600×450	250	1360	560	1000	575	40
600×450	350	1360	560	1000	575	50



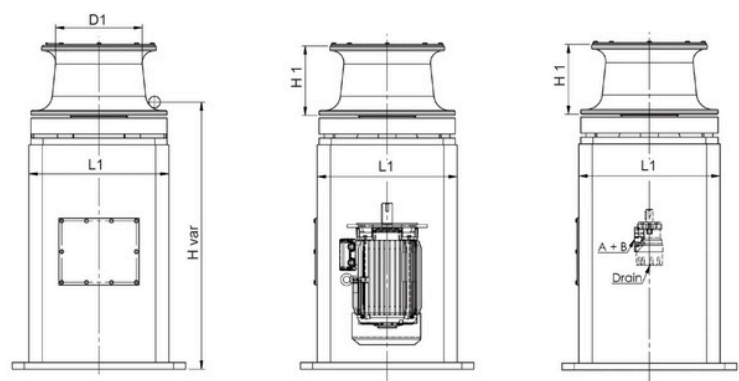
PANAMA CHOCK C - TYPE

Model	SWL	(D mm) L	(D mm) W	(D mm) H	(D mm) H1	(D mm) 1A
C2	20	360	200	315	157.5	160
C3	30	450	250	390	195	200
C5	50	550	300	480	240	250
C8	80	680	360	586	292.5	320
C12	120	840	440	710	355	400
C20	200	1020	520	840	420	500
C32	320	1300	700	1100	550	600



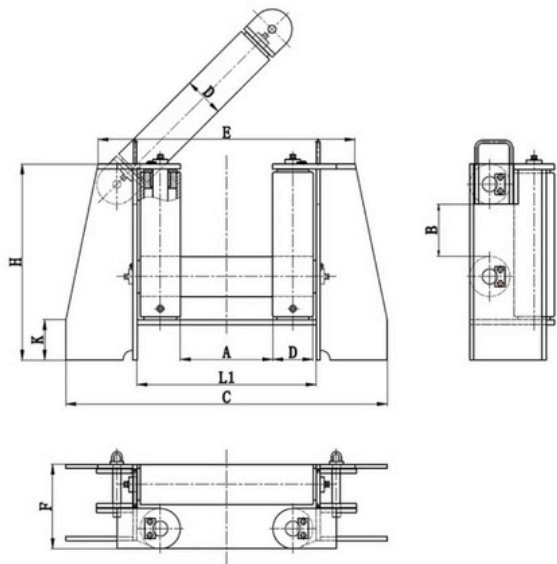
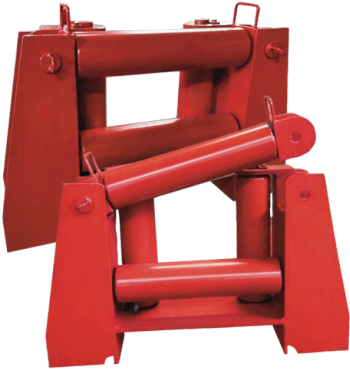
ELECTRIC NOCKS

Nominal pulling force kN	Electric installed power electric execution kW	Hydraulic installed power execution flow/pressure	Dimensions H1 (mm)	Dimension: H var (mm)
30	5	35 l/min 140 bar	260	60-750
50	9	55 l/min 150 bar	260	60-750
75	13	70 l/min 150 bar	360	90-1000
100	17	70 l/min 200 bar	460	90-1000
125	22	85 l/min 200 bar	560	110-1100
150	26	110 l/min 200 bar	560	110-1100
200	35	140 l/min 200 bar	650	130-1200



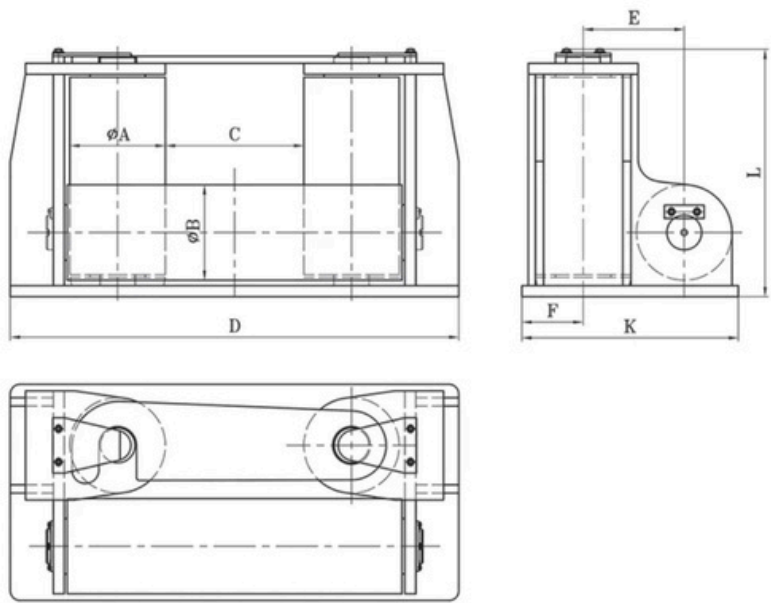
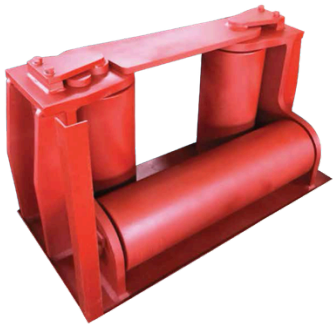
Type	Rope Dia. (mm)	(D. mm) A	(D. mm) B	(D. mm) C	(D. mm) D	(D. mm) E
FA4-12B	12	180	100	650	80	520
FA4-16B	16	230	130	800	100	640
FA4-20B	20	250	130	900	120	750
FA4-24B	24	280	160	1000	140	850
FA4-28B	28	300	160	1132	160	950
FA4-32B	32	300	160	1200	180	1018
FA4-40B	40	320	180	1350	245	1260
FA4-44B	44	350	200	1500	273	1355
FA4-48B	48	400	250	1700	300	1520
FA4-52B	52	450	280	1800	324	1640

Type	(D. mm) F	(D. mm) K	(D. mm) H	(D. mm) L1	Mass (kgs)	SWL (Kn)	M (K
FA4-12B	170	80	388	356	78	50	12
FA4-16B	210	100	488	446	146	90	22
FA4-20B	250	120	558	506	218	120	30
FA4-24B	288	120	628	576	342	200	50
FA4-28B	330	140	700	640	474	280	70
FA4-32B	366	140	738	676	592	340	80
FA4-40B	500	180	930	830	1140	480	110
FA4-44B	556	180	1011	916	1700	600	150
FA4-48B	608	200	1133	1016	2200	860	170
FA4-52B	660	240	1264	1120	2500	1040	250



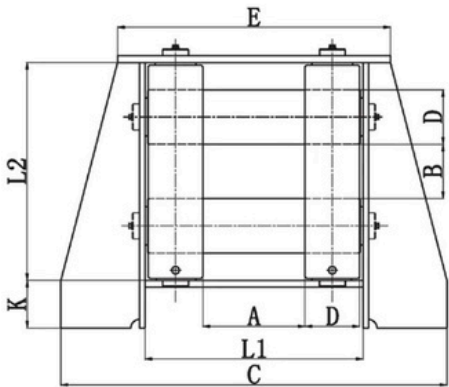
Type	Wire Rope Diameter (mm)	D. (mm) A	D. (mm) B	D. (mm) C	D. (mm) D	D. (mm) E
FA3- 24	24	150	150	270	766	158
FA3- 32	32	190	190	290	910	200
FA3- 38	38	215	215	320	1018	227
FA3- 44	44	245	245	355	1150	259
FA3- 52	52	325	325	450	1515	355

Type	D. (mm) F	D. (mm) K	D. (mm) L	SWL (Kn)	Mass (kgs)
FA3- 24	96	340	400	354	285
FA3- 32	122	430	472	450	395
FA3- 38	138	487	534	500	546
FA3- 44	157	555	636	675	1485
FA3- 52	223	765	793	950	1858



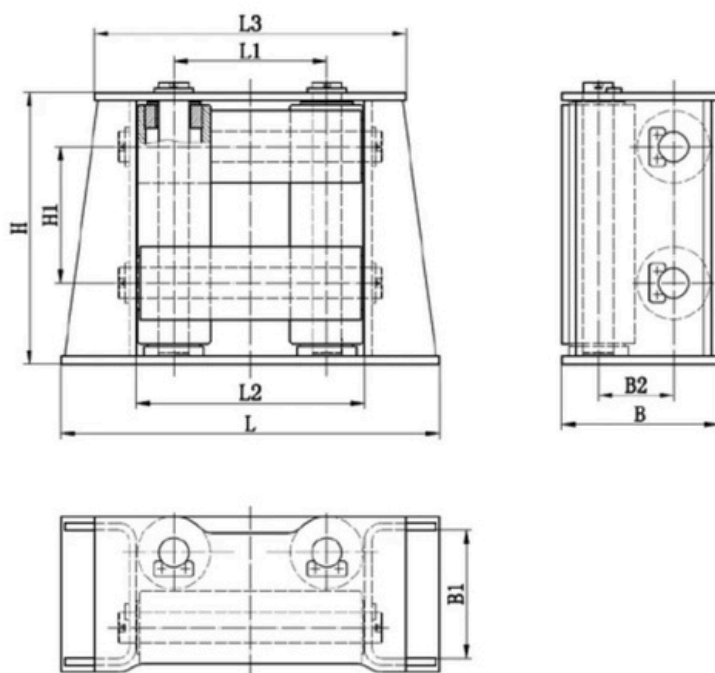
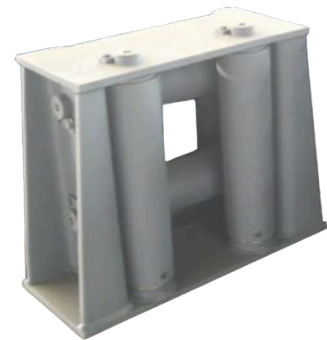
Type	Rope Dia. (mm)	(D. mm) A	(D. mm) B	(D. mm) C	(D. mm) D	(D. mm) E
FA4-12	12	180	100	650	80	446
FA4-16	16	230	130	800	100	546
FA4-20	20	250	130	900	120	626
FA4-24	24	280	160	1000	140	716
FA4-28	28	300	160	1132	160	800
FA4-32	32	300	160	1200	180	836
FA4-40	40	320	180	1350	245	1030
FA4-44	44	350	200	1500	273	1130
FA4-48	48	400	250	1700	300	1236
FA4-52	52	450	280	1800	324	1340
FA4-56	56	450	280	1900	350	1386
FA4-64	64	500	300	2100	398	1620

Type	(D. mm) F	(D. mm) K	(D. mm) L1	(D. mm) L2	Mass (kgs)	SWL (Kn)	M (K
FA4-12	170	80	356	356	75	50	15
FA4-16	210	100	446	446	130	90	25
FA4-20	250	120	506	506	220	120	35
FA4-24	288	120	576	576	330	200	50
FA4-28	330	140	640	640	480	280	70
FA4-32	366	140	676	676	580	340	80
FA4-40	500	180	830	830	1100	480	110
FA4-44	556	180	916	916	1710	600	150
FA4-48	608	200	1016	1016	2210	900	170
FA4-52	660	240	1120	1120	2510	1200	240
FA4-54	710	240	1166	1166	2980	1410	280
FA4-64	808	260	1320	1205	3780	1600	350



Type	Wire Rope Dia. (mm)	(D mm) D	(D mm) L	(D mm) L1	(D mm) L2	(D mm) L3
100	14	102	644	300	416	544
120	16	121	728	320	456	608
130	18	140	776	330	480	646
150	20	152	880	370	540	730
160	22	168	940	400	580	780
180	26	194	1030	420	620	850
200	28	219	1136	460	686	936
230	32	245	1256	490	746	1026
260	36	273	1430	560	850	1170
320	44	325	1690	640	990	1370

(D mm) H	(D mm) H1	(D mm) B	(D mm) B1	(D mm) B2	Mass (kgs)	SWL (KN)
508	330	238	194	108	112	54
552	360	280	232	128	169	70
606	405	304	250	138	227	89
670	435	346	288	158	328	110
710	470	370	308	168	388	133
770	510	417	345	190	620	186
820	550	459	385	210	798	216
910	605	521	445	240	1067	282
1000	670	590	500	270	1585	357
1130	770	714	620	330	2441	533

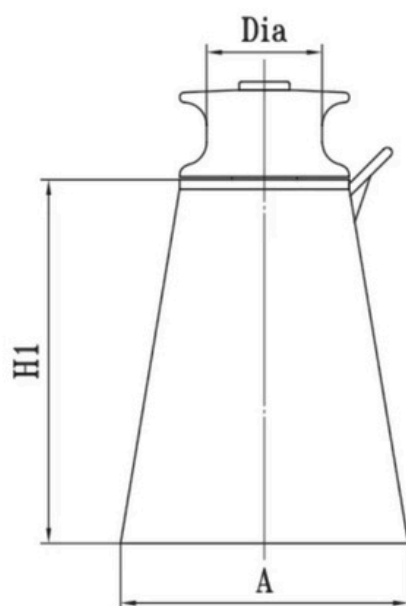


Nominal Diameter (mm)	(D. mm) D1	(D. mm) d	(D. mm) d7	(D. mm) H	(D. mm) S	Mass (kgs)
150	240	90	79	154	5	25
200	310	115	99	186	5	50
250	380	135	119	230	6	92
300	440	155	129	255	7	127
350	500	175	149	271	7	168
400	560	195	159	307	7	252
450	630	210	179	316	7	310

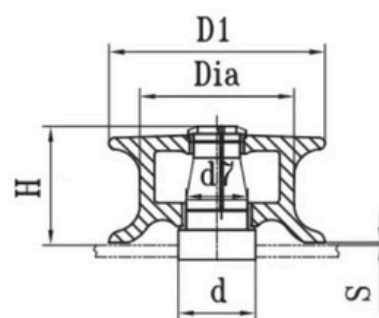
Breaking Load (Tons)	Dia. of Mooring Line (Reference) Wire Rope 6 x 24	Dia. of Mooring Line (Reference) Wire Rope 6 x 37	Dia. of Mooring Line (Reference) P.P. rope	Dia. of Mooring Line (Reference) Hemp. rope
13	17	15	32	45
21	22	20	40	55
28	24	24	45	65
42	30	28	50	70
61	38	34	55	75
74	42	40	65	80
90	44	42	80	—



Roller with Conical Base

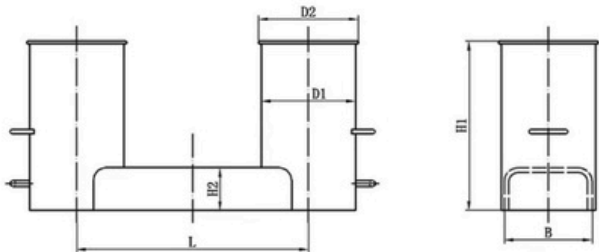


EU Type



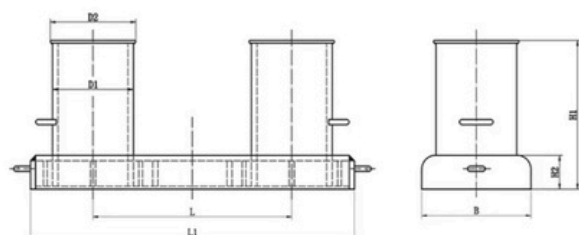
Type	Dimensions (mm) D1	Dimensions (mm) D2	Dimensions (mm) H1	Dimensions (mm) H2
150	165.2	185	330	90
200	216.3	240	395	115
250A	267.4	290	505	135
250B	267.4	290	505	135
300A	318.5	340	600	150
300B	318.5	340	600	150
350A	335.6	380	685	175
350B	335.6	380	685	175
400A	406.4	430	730	185
400B	406.4	430	730	185
450A	457.2	480	770	195
450B	457.2	480	770	195
500A	508	530	830	230
500B	508	530	830	230
550A	558.8	580	900	270
550B	558.8	580	900	270
600	609.4	630	950	300

Type	Dimensions (mm) B	Dimensions (mm) L	Mooring SWL(T) One- rope	Mooring SWL(T) Two- rope	Tov SWL
150	155	400	5.5	5.0	10
200	205	500	8.4	6.7	13
250A	250	630	16	14	27
250B	250	630	13	11	22
300A	290	800	34	31	62
300B	290	800	19	16	36
350A	340	890	45	43	85
350B	340	890	25	22	50
400A	380	1000	61	53	106
400B	380	1000	33	27	67
450A	425	1100	77	62	124
450B	425	1100	39	30	78
500A	480	1250	101	77	154
500B	480	1250	47	33	93
550A	520	1380	115	83	165
550B	520	1380	80	55	159
600	560	1550	143	97	193



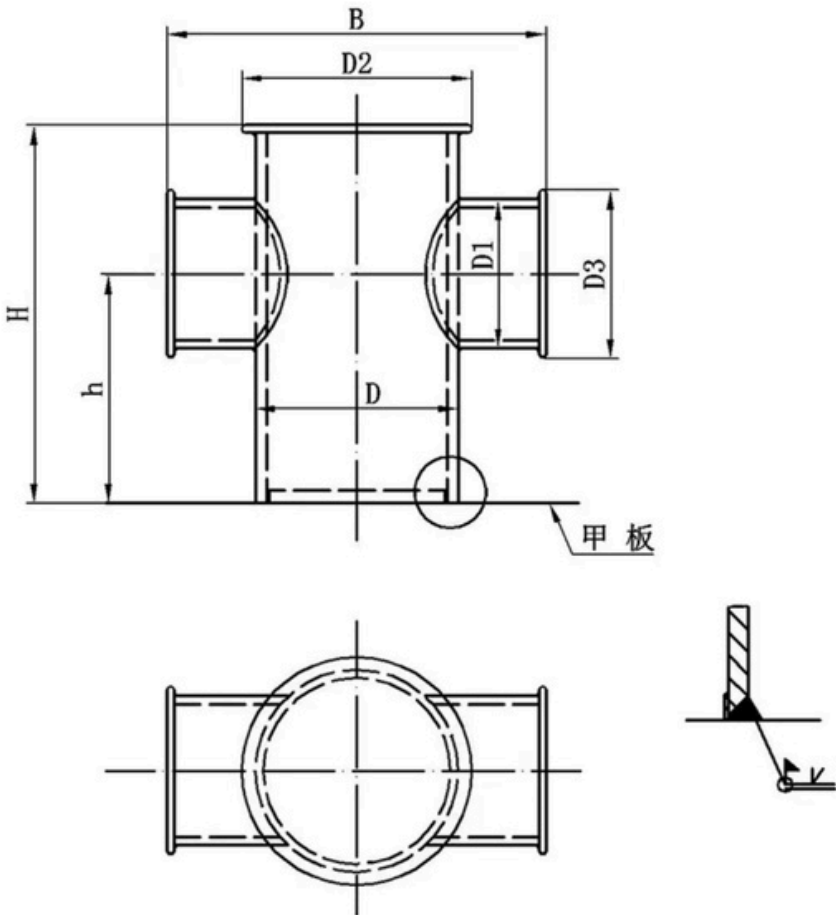
Type	Dimensions (mm) D1	Dimensions (mm) D2	Dimensions (mm) H1	Dimensions (mm) H2
150	165.2	185	320	80
200	216.3	240	365	85
250A	267.4	290	470	100
250B	267.4	290	470	100
300A	318.5	340	575	125
300B	318.5	340	575	125
350A	335.6	380	655	145
350B	335.6	380	655	145
400A	406.4	430	705	160
400B	406.4	430	705	160
450A	457.2	480	745	170
450B	457.2	480	745	170
500A	508	530	790	190
500B	508	530	790	190
550A	558.8	580	840	210
550B	558.8	580	840	210
600	609.4	630	875	225

Type	Dimensions (mm) L	Dimensions (mm) L1	Mooring SWL(T) One- rope	Mooring SWL(T) Two- rope	Tov SWL
150	400	670	5.5	5.0	10
200	500	860	8.4	6.7	13
250A	630	1065	16	14	27
250B	630	1065	13	11	22
300A	800	1300	34	31	62
300B	800	1300	19	16	36
350A	890	1475	45	43	85
350B	890	1475	25	22	50
400A	1000	1630	61	53	106
400B	1000	1630	33	27	67
450A	1100	1810	77	62	124
450B	1100	1810	39	30	78
500A	1250	2040	101	77	154
500B	1250	2040	47	33	93
550A	1380	2240	115	83	165
550B	1380	2240	80	55	159
600	1550	2490	143	97	193



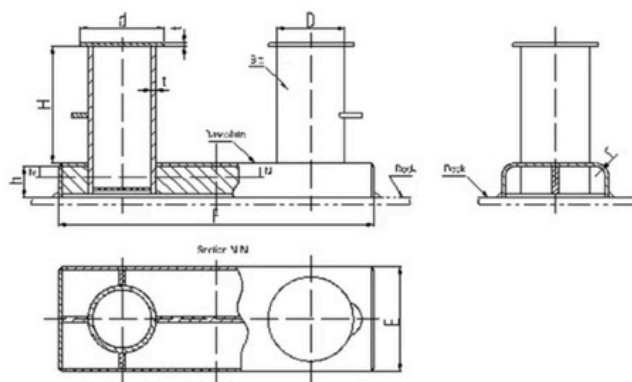
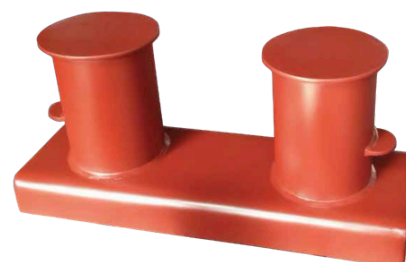
Type	Rope Dia. (mm)	Dimensions (mm) D	Dimensions (mm) D1	Dimensions (mm) D2	Din (mm)
150	16	165.2	114.3	206	158
200	22	216.3	165.2	256	206
250	28	267.4	216.3	308	256
300	34	318.5	267.4	360	308
350	38	355.6	267.4	400	312
400	40	406	299	460	340
450	42	457	325	530	380
500	48	508	351	560	400

Type	Dimensions (mm) B	Dimensions (mm) H	Dimensions (mm) h	Mass (kgs)	SWl (T)
150	460	480	280	33	16
200	520	560	320	61	22
250	610	640	360	103	28
300	660	680	380	154	34
350	720	720	420	187	40
400	760	760	460	252	56
450	800	840	500	367	64
500	968	976	600	420	90



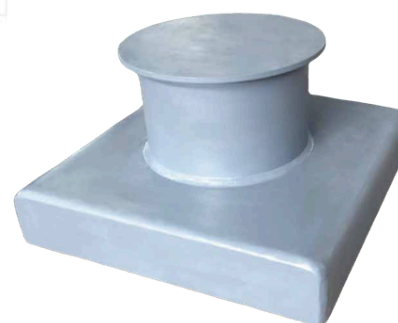
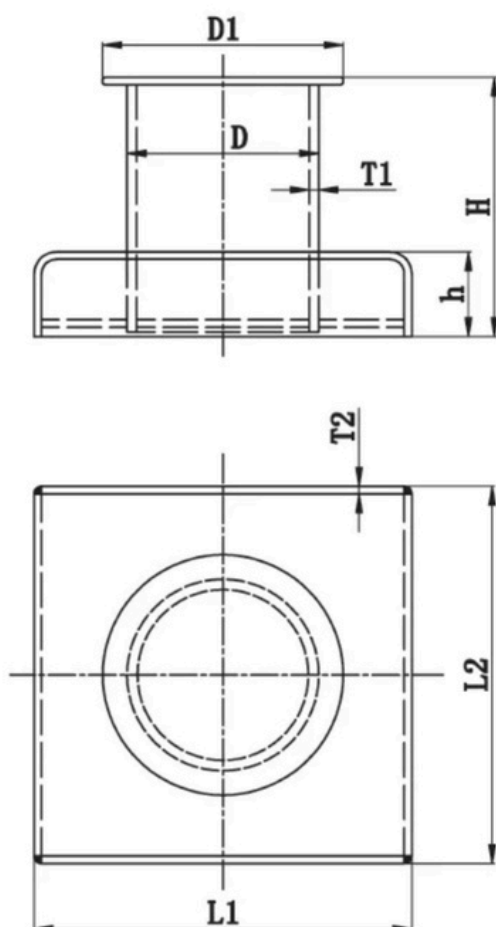
Nominal size Dn	D	t specified tube 410 N/mm2 Min.	t specified plate 410 N/mm2 Min.	Dimensions (mm) E	Dime (mm)
100	114,3	10	10	150	450
125	139,7	10	10	190	560
160	168,3	10	10	250	720
200	219,1	11	10	300	900
250	273,0	12.5	11	380	1130
315	323,9	16	15	480	1430
400	406,4	20	18	600	1800
500	508,0	22,2	20	750	2250
630	609,6	28	24	940	2830
710	711,2	28	25	1050	3200
800	813,0	30	26	1200	3600

Nominal size Dn	Dimensions (mm) H	Dimensions (mm) d	Dimensions (mm) h	Dimensions (mm) r
100	160	140	75	8
125	200	170	80	8
160	260	200	90	8
200	310	265	100	10
250	392	325	125	14
315	496	395	150	16
400	620	500	175	18
500	772	620	200	24
630	940	750	225	26
710	1050	870	250	28
800	1200	990	275	32



Type	SWL (T)	(D. mm) D	(D. mm) D1	(D. mm) L1	(D. mm) L2
406	60	406	510	800	800
508	102	508	628	1050	1050
558	150	558	658	1050	1050
630	102	630	750	1200	1200
630	204	630	750	1200	1200

(D. mm) H	(D. mm) h	(D. mm) T1	(D. mm) T2	MASS (kgs)
550	180	22	16	386
620	220	25	20	656
620	220	28	22	745
670	250	25	25	980
670	250	30	25	1030



Bollard capacity (tonnes)	Dimensions (mm) A	Dimensions (mm) B	Dimensions (mm) C	Dimensions (mm) D
20	40	235	340	170
30	40	255	350	200
50	55	350	500	260
80	70	380	550	280
100	80	410	600	350
150	90	435	700	400
200	90	500	800	480

Dimensions (mm) F	Dimensions (mm) G	Dimensions (mm) K	Dimensions (mm) L1	Dimensions (mm) L2
335	155	80	30°	–
375	175	100	30°	–
540	250	150	30°	–
550	250	160	15°	45°
640	325	175	10°	40°
750	350	200	10°	40°
850	375	225	0°	36°

Bolts M	Bolts H	Bolts Qty	Weight (kg)
M42	500	5	82
M30	500	5	112
M36	600	5	228
M42	800	6	336
M42	1000	7	486
M48	1000	7	590
M56	1100	8	720

