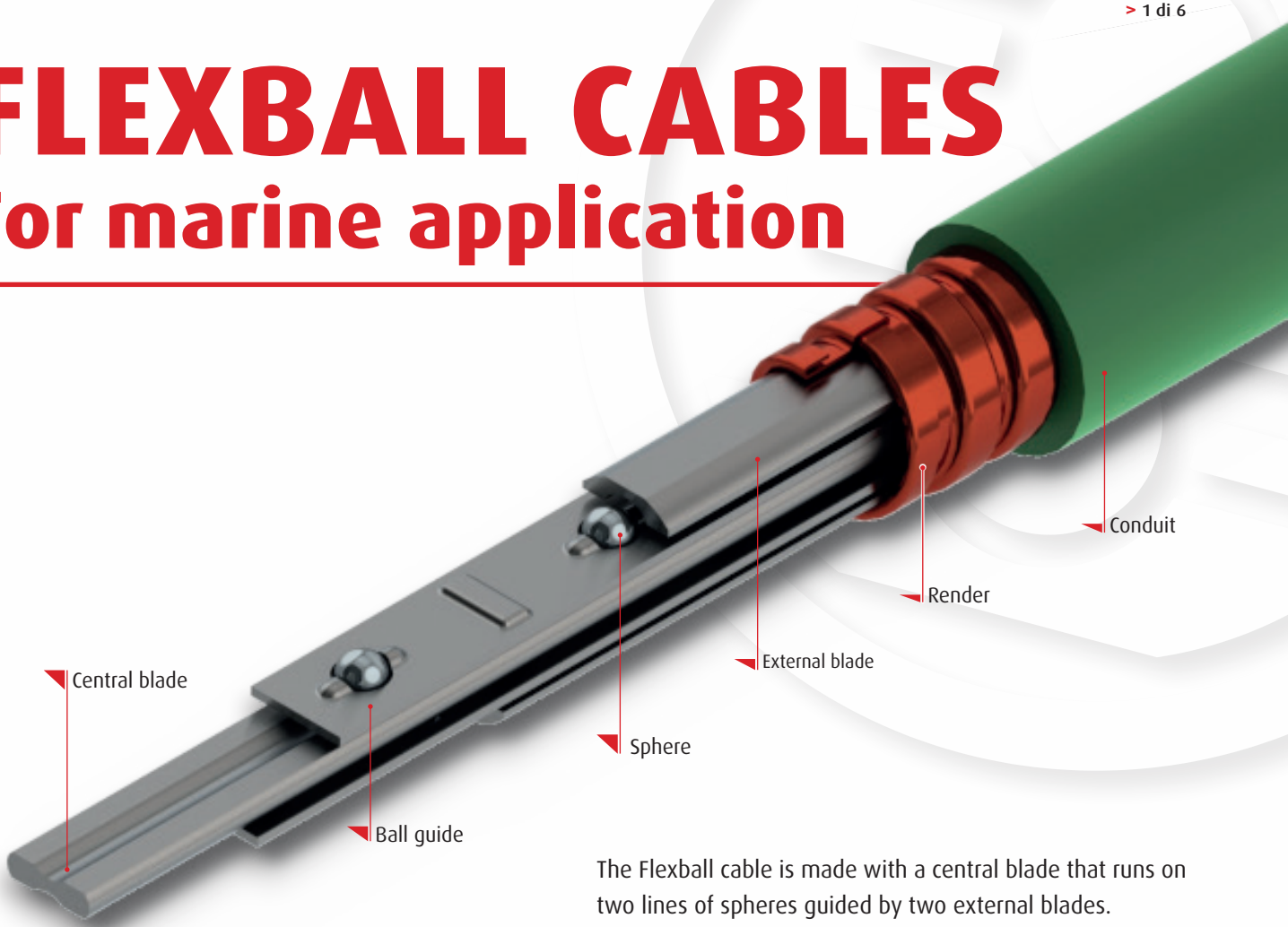


FLEXBALL CABLES

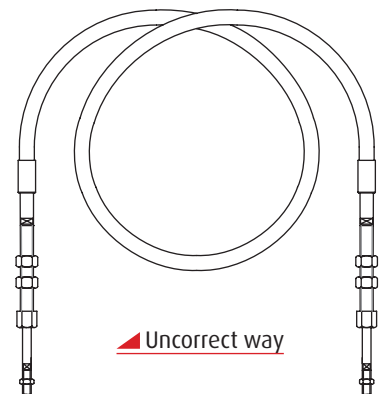
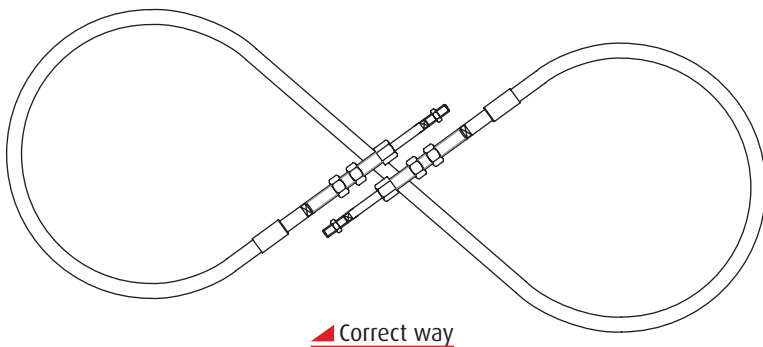
For marine application



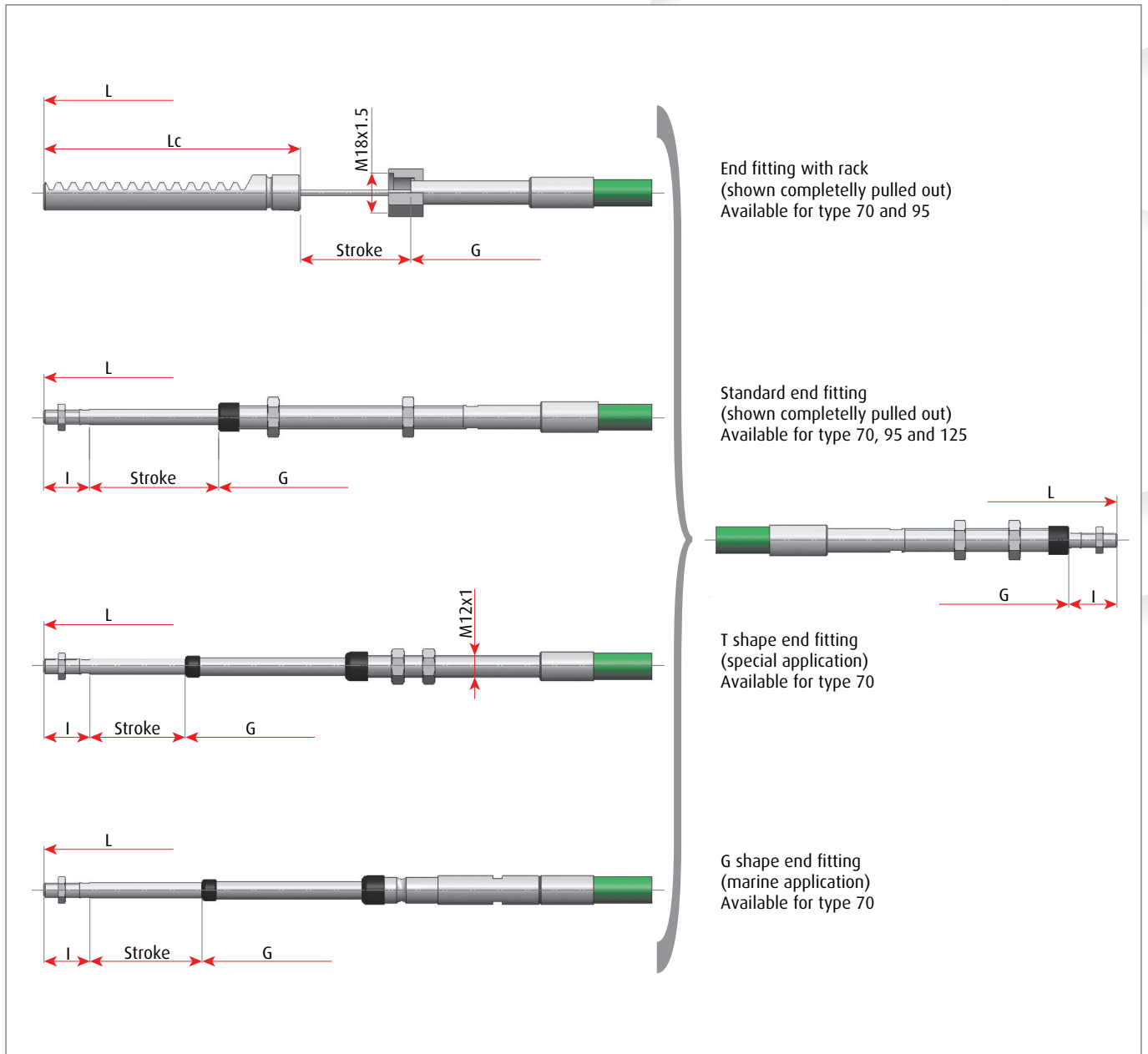
The **Flexball cable**, recognizable from the green colour of the plastic cover, is an extremely flexible and sliding cable. It has a very robust and reliable construction, with very high performances. If mounted properly, a Flexball cable can work "for ever". Flexball cables are mainly used on boat in which long distances have to be covered, high loads have to be transmitted and the reliability is a "key word".

The Flexball cable is made with a central blade that runs on two lines of spheres guided by two external blades. Materials used change according to the application: for industrial application terminals are in steel zinc while for marine applications terminals are either made with brass or stainless steel. Internal blades are stainless steel AISI304L for any kind of applications. Flexball cables are used in any kind of special applications. If this is the case, please feel free to contact our technical department. For a proper mounting, look at our "Mounting instructions".

The **Flexball cable** is delivered in a proper box and bent with an "8" shape to respect its minimum bending radius. Once received, it should be opened and stored in a straight line. If not possible, we suggest to leave it in the box like you have received it. Flexball cable must not be stored in a circular way, otherwise it can be seriously damaged.



The **Flexball cables** are available with several types of end fittings to fit the different application requirements.

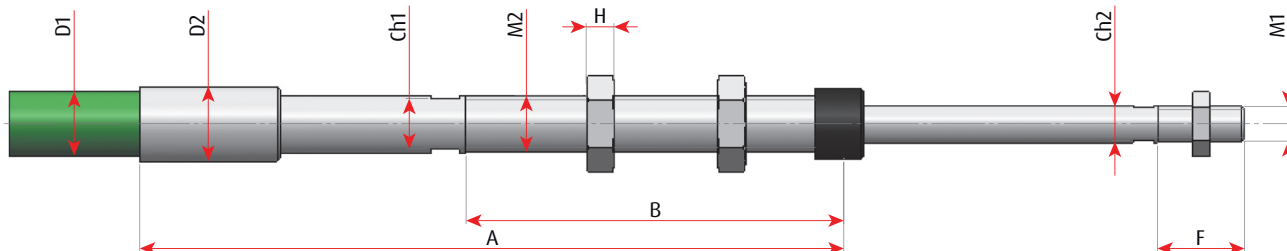


PRODUCT RANGE AND APPLICATION

The Flexball cable is available in different sizes, from type 70 up to type 125.

Type 70 is commonly used for throttle and gearbox type 95 for gearbox in case of very long route and heavy duty application like winch and hydrostatic pump and type 125 is commonly used for steering system.

STANDARD FLEXBALL END FITTING DIMENSIONS



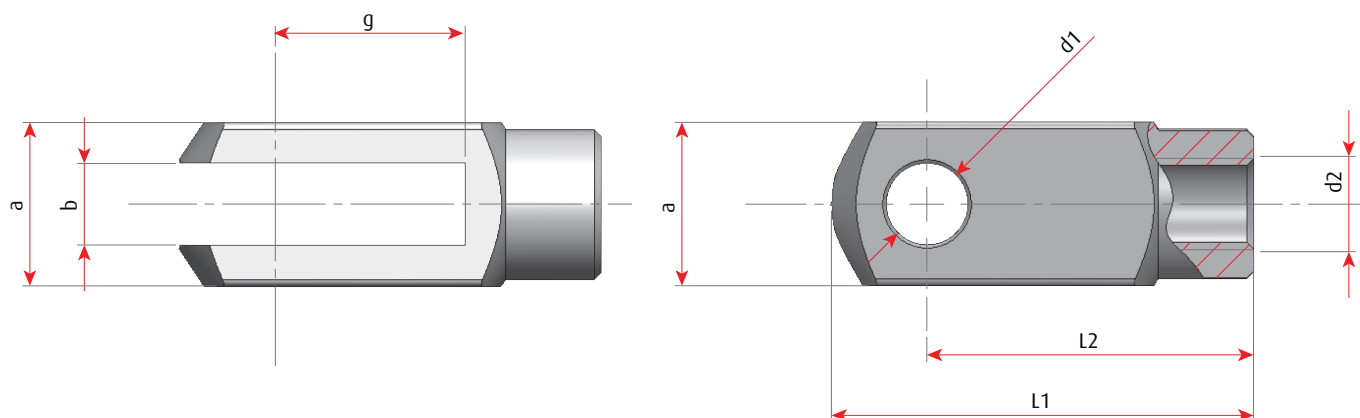
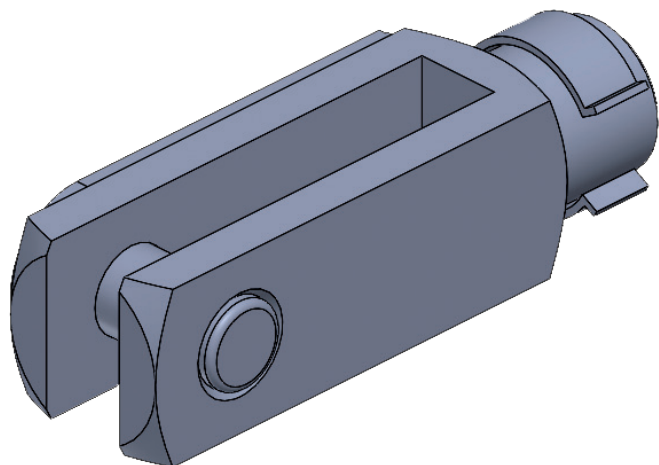
Cable type	Stroke	A	B	F	H	I	Ch1	Ch2	D1	D2	M1	M2	LC	Rack module (mm)	Push load (N)	Pull load (N)	Bending radius (mm)	Weight per meter (gr)	E _c	
70	50	142	55	30	8	37	11	6	11.7	14	M7x1(M6x1)	M12x1	126	1.5	1550	2800	120	320	0.18	
	70	157	70												154					
	100	187	100												178					1400
	150	237	150												225					600
	200	292	170												276					250
95	50	163	70	30	8	37	14	9	14.7	18	M10x1.5	M16x1.5	126	1.5	2700	5000	140	518	0.15	
	70	183	90												154					
	100	213	120												178					2500
	150	263	170												225					1400
	200	313	220												276					600
125	50	195	70	35	9	45	17	11	18	21	M12x1.5	M18x1.5	1.5	-	5300	10000	200	827	0.05	
	70	215	90											-						
	100	245	120											-						5000
	150	295	170						295	2500										
	200	345	210						345	1200										

Notes:

Cable's elongation (mm): cable's length (m) x applied Load (N) x E_c x 0.01

ACCESSORIES

CLEVIS

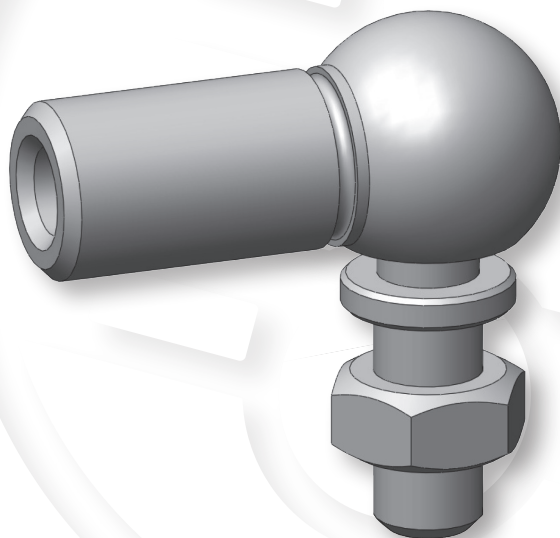
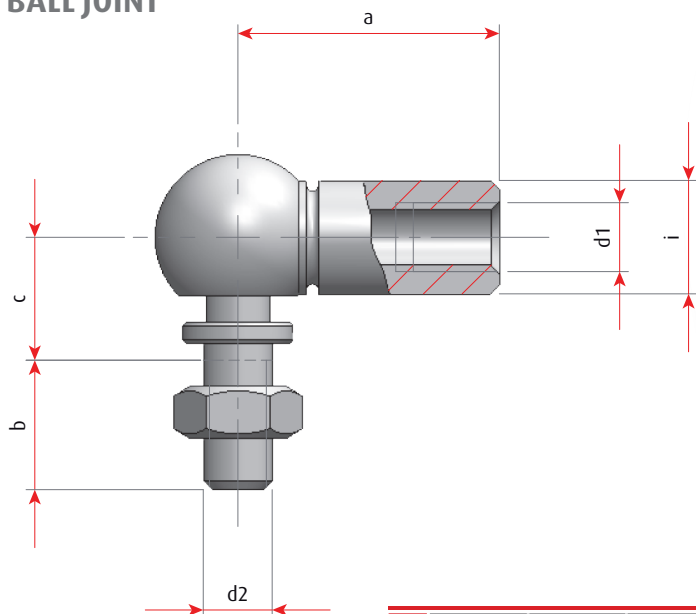


Type	B	d1	d2	g	a	L1	L2	Clevis code	Set Code (clevis + pin)
6x24	6	6	M6	32	16	58	48	D-0099.01.04.04	0-0099.01.00.11
6x24	6	6	M7	32	16	58	48	D-0099.01.04.05	0-0099.01.00.12
10x40	10	10	M10x1,5	40	20	72	60	D-0099.01.08.03	0-0099.01.00.27
12x48	12	12	M12x1,5	48	24	72	86	D-0099.01.09.02	0-0099.01.00.30

Note:

all the clevis listed here above are in brass.

BALL JOINT

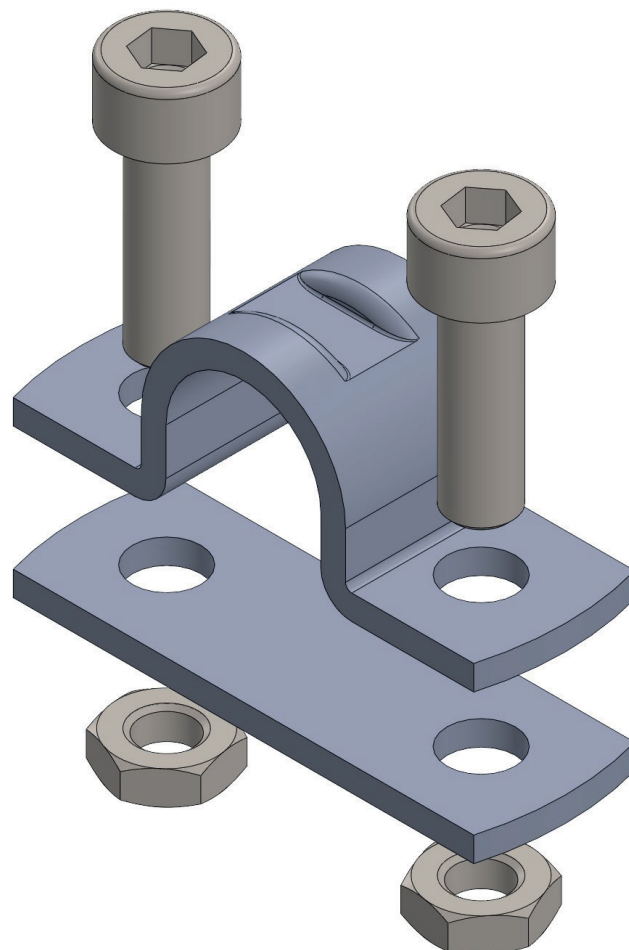
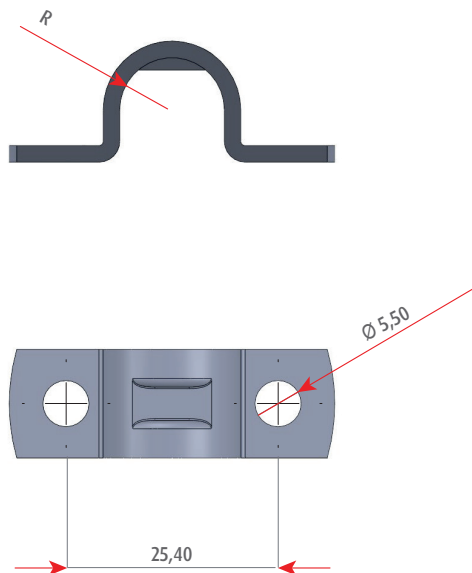


Type	a	i	d1	d2	c	b	Code
AS10	25	12	M6	M6	11	8	D-0099.04.03.00
AS13	30	14	M6	M8	13	12	D-0099.04.07.02
	30	14	M7	M7	13	12	D-0099.04.06.00
	30	14	M7	M8	13	12	D-0099.04.07.01
AS16	35	16	M10	M10	16	14	D-0099.04.09.00

Note:

all the ball joints listed here above are in steel zinc coated.

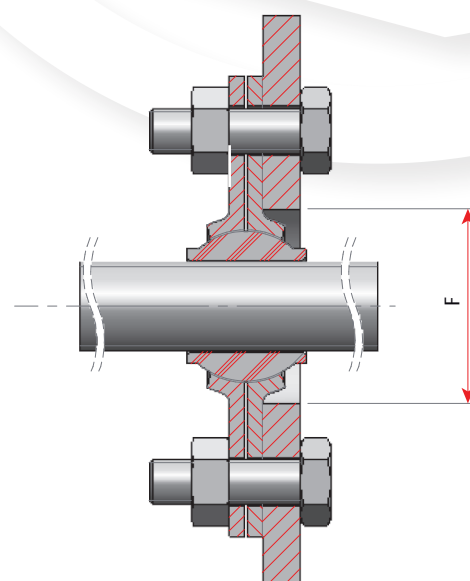
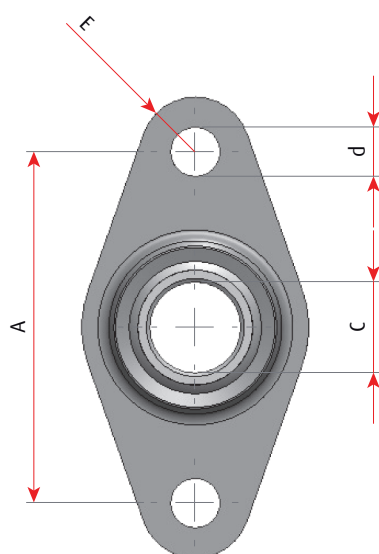
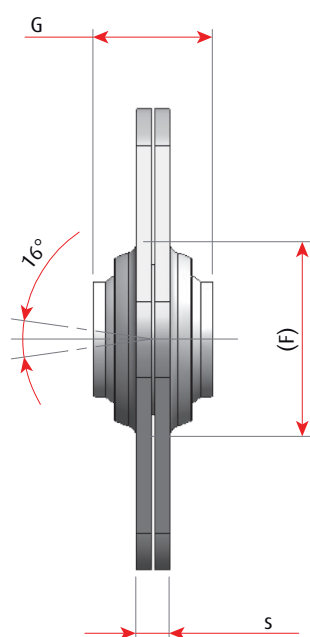
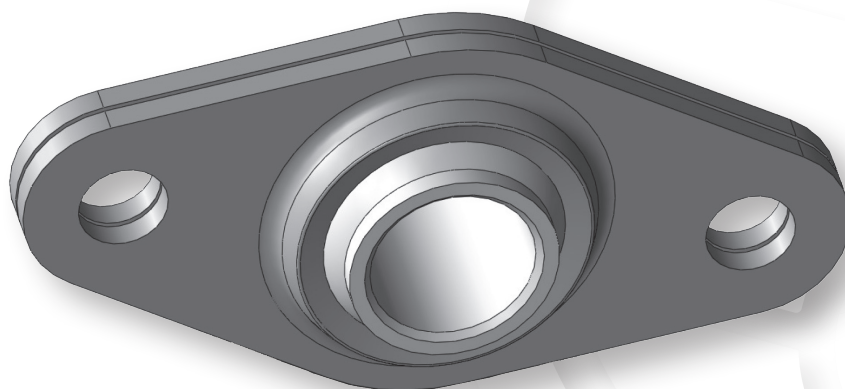
CLAMP



Type of cable	R	Set Code (clamp + bracket + 2 screws + 2 nuts)
70 (G shape)	12,5	0-0099.11.06.02



BULKHEAD SWIVEL



Note:

"F" is the dimension of the hole that has to be drilled on the bracket where the bulkhead swivel will be fixed. The above picture shows the correct mounting of the bulkhead against the bracket.

Type	A	b	C	F	G	s	Ch	Material	Code
70	40	6.2	12.2	25	16	4	17	Brass	0-0099.03.00.05
95	52	8.2	16.2	34	22	5	25	Brass	0-0099.03.00.08
125	56	8.2	18.2	36	25	5	27	Brass	0-0099.03.00.10

