R & D MARINE LTD.

Flexible Shaft Couplings

- **For engines 5 to 1500 HP**
- **Reduces engine noise and vibration transmission**
- **Fail safe design**
- **Bolts between existing shaft flanges**
- **Requires no machining**
- **Simple to install**
- **Simple to periodically check alignment**
- **Wide range of stock**
- **Accepts propeller thrust**
- **Impervious to salt water, diesel and lubrication oils**
- **Fast installation time**
- **Electrical continuity available**
- **Worldwide availability**
- **Competitively priced**

R & D Marine has developed a wide range of competitively priced Flexible Couplings to fit all major installations.

The R & D Flexible Couplings reduce engine noise, vibration transmission and are designed to accept propeller thrust, a separate thrust bearing and bulk head are not required.

The couplings are made from a polyester elastomer which is not affected by salt water, diesel and lubrication fluids.

If electrical continuity is required an earthing connector can be fitted in the centre of most Flexible Couplings.

Installation is quick and easy as the R & D Coupling requires no machining and comes supplied with bolts to connect between the two existing shaft flanges.

Checking alignment on installation and during service checks is quick and easy using the red cone headed bolt.

Products are available ex-stock and worldwide through our distribution network.

R & D Marine Flexible Shaft Couplings

How to Select (details required)

1. **Engine horse power and Engine Speed**
2. **Gearbox type and reduction ratio**
3. **Gearbox flange details. Diameter of flange. Diameter of register. Pitch circle diameter of fixing holes. Size and quantity of holes**
   (Pitch circle diameter is the distance between the centre of hole at 12 O`clock position to the centre of the hole at 6 o`clock)

Example

1. **Ford 150 HP at 2500 RPM**
2. **Borg Warner Velvet Drive 72C 2:1 Reduction**
3. **5" Flange, 2.500 dia Register, 4.250 PCD, 4 off holes 0.437 diameter**

To calculate Power of coupling required.

Horse Power of Engine x Reduction Ratio x 100 = HP/100rpm
Engine Speed

150 x 2 x 100 = 12 HP/100 rpm **Coupling Required 910-009 Borg Warner**
2500

The R & D 910 Series couplings consist of a contoured flexible disc moulded in tough yet resilient new type Polyester Elastomer. The contoured disc gives clearance for bolt heads, and is able to flex freely to take up any temporary misalignment of the engine and shaft, due to flexing of the boat structure or the engine moving on its rubber vibration isolation mountings. Forward thrust is taken in compression on the disc between the two half couplings and reverse thrust is taken again in compression on the disc between the two fail safe straps. In the unlikely event of a disc failure, the steel straps make the coupling fail safe and ensure drive is maintained in both forward and reverse.

Couplings as standard are non-conducting but we can supply a silver impregnated rubber element to fit in the centre of the coupling between the two fail safe straps to give continuity if required.

Flexible Coupling Information

		Gearbox Flange Dimensions								Flexible Coupling Details						
Flexible Coupling	Manufacturer	Diameter		No Bolts	Nom Dia Of Holes		Bolt Pitch Circle		Register		Diameter		Length		Bolt Dia	Capacity /100 rpm		Ref
		mm	Inch		mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch		kW	HP	
910-001	B/W, PRM, ZF-Hurth, Technodrive	101.6	4.00	4	10.0	0.39	82.55	3.25	63.5	2.50	114.3	4.5	32.5	1.28	M10	3.73	5	
910-002	Yanmar	101.6	4.00	4	10.0	0.39	78.00	3.07	50.0	1.97	114.3	4.5	32.5	1.28	M10	2.24	3	
910-003	B/W, PRM, ZF-Hurth, Twin Disc	146.0	5.75	6	12.7	0.50	120.6	4.75	76.2	3.00	152.4	6.0	47.5	1.87	1/2 UNF	14.92	20	X O
910-004	B/W,PRM, ZF-Hurth	101.6	4.00	4	10.0	0.39	82.55	3.25	63.5	2.50	114.3	4.5	35.6	1.40	M10	5.97	8	
910-005	Paragon	101.6	4.00	4	9.7	0.38	82.55	3.25	66.7	2.63	114.3	4.5	34.5	1.35	3/8 UNF	5.22	7	
910-006	Twin Disc, ZF-Hurth	146.0	5.75	6	16.0	0.63	120.6	4.75	76.2	3.00	152.4	6.0	47.5	1.87	1/2 UNF	14.92	20	O X O
910-007	Volvo	101.6	4.00	4	10.0	0.39	80.0	3.15	60.0	2.36	114.3	4.5	43.7	1.72	M10	2.24	3	
910-009	B/W, PRM, ZF-Hurth, Volvo	127.0	5.00	4	11.2	0.44	107.9	4.25	63.5	2.50	143.0	5.63	45.0	1.77	7/16 UNF	9.69	13	X O
910-012	Yanmar	127.0	5.00	4	10.0	0.39	100.0	3.93	65.0	2.56	135.0	5.31	45.0	1.77	M10	7.46	10	
910-013	Bukh	90.0	3.54	4	8.1	0.32	74.5	2.93	47.0	1.85	114.3	4.5	32.5	1.28	M8	2.24	3	
910-014	B/W, PRM, ZF-Hurth, Technodrive	101.6	4.00	4	10.0	0.39	82.55	3.25	63.5	2.50	114.3	4.5	32.5	1.28	M10	2.24	3	
910-015	Self Change 350HD	222.2	8.75	6	11.2	0.44	190.5	7.50	152.4	6.00	222.2	8.75	44.5	1.75	7/16 UNF	32.1	43	O
910-016	Self Change 700HD	260.4	10.25	6	16.0	0.63	228.6	9.00	152.4	6.00	276.4	10.88	58.0	2.28	5/8 UNF	48.47	65	X O
910-017	Twin Disc	184.2	7.25	6	19.0	0.75	152.4	6.00	95.25	3.75	190.5	7.5	60.7	2.39	5/8 UNF	29.84	40	O X O
910-018	PRM	184.2	7.25	6	16.0	0.63	152.4	6.00	95.25	3.75	190.5	7.5	60.7	2.39	5/8 UNF	29.84	40	X O
910-019	Volvo	101.6	4.00	4	10.0	0.39	80.0	3.15	60.0	2.36	114.3	4.5	32.5	1.28	M10	2.24	3	
910-020	Volvo	101.6	4.00	4	10.0	0.39	80.0	3.15	60.0	2.36	114.3	4.5	32.5	1.28	M10	3.73	5	
910-021	Enfield, Sonic	101.6	4.00	2	11.2	0.44	76.0	3.00	----	----	108.0	4.25	41.7	1.64	7/16 UNF	1.87	2.5	
910-022	Twin Disc	228.6	9.00	8	22.6	0.89	190.5	7.50	152.4	6.00	222.2	8.75	44.5	1.75	1/2 UNF	48.47	65	O X O
910-024	Twin Disc	266.7	10.5	8	25.4	1.00	222.2	8.75	127.0	5.00	276.4	10.88	56.7	2.23	5/8 UNF	63.38	85	O X O
910-025	B/W, PRM, ZF-Hurth, Twin Disc	146.0	5.75	6	12.7	0.5	120.6	4.75	76.2	3.00	152.4	6.0	49.8	1.96	1/2 UNF	20.88	28	X O
910-026	Twin Disc	146.0	5.75	6	16.0	0.63	120.6	4.75	76.2	3.00	152.4	6.0	49.8	1.96	1/2 UNF	20.88	28	O X O
910-027	ZF W320 320A	225	8.86	8	17.0	0.67	196	7.72	140	5.51	228.6	9.0	44.5	1.75	1/2 UNF	48.47	65	O
910-028	Bukh	90.0	3.54	4	8.1	0.32	74.5	2.93	47.0	1.85	114.3	4.5	32.5	1.28	M8	3.73	5	
910-029	B/W, ZF-Hurth, Volvo	127.0	5.00	4	11.2	0.44	107.9	4.25	63.5	2.50	143.0	5.63	52.4	2.06	7/16 UNF	14.92	20	O
910-030		292.1	11.5	8	25.4	1.00	247.6	9.75	152.4	6.00	292.1	11.5	58.4	2.30	5/8 UNF	89.48	120	O X O
910-032	B/W, PRM, ZF-Hurth, Twin Disc	146.0	5.75	6	12.7	0.5	120.6	4.75	76.2	3.00	152.4	6.0	55.4	2.18	1/2 UNF	27.6	37	
910-033	Twin Disc, ZF-Hurth	146.0	5.75	6	16.0	0.63	120.6	4.75	76.2	3.00	152.4	6.0	55.4	2.18	1/2 UNF	27.6	37	O
910-034	Open Centre V Drive 52mm Bore	127.0	5.00	4	11.2	0.44	107.9	4.25	63.5	2.50	162.0	6.38	45.0	1.77	7/16 UNF	8.95	12	#
910-035		340.0	13.38	8	25.4	1.00	295.3	11.63	152.4	6.00	348.0	13.7	108.0	4.25	5/8 UNF	119.3	160	O
910-036	Twin Disc	127.0	5.00	4	10.0	0.39	104.8	4.13	63.5	2.50	143.0	5.63	45.0	1.77	M10	7.46	10	
910-037	Yanmar	130.0	5.12	4	12.3	0.48	107.9	4.25	63.5	2.50	143.0	5.63	51.1	2.01	7/16 UNF	9.69	13	
910-038	Taipeoungyang TK 250	178.0	7.00	6	14.3	0.56	152.0	5.984	100	3.94	190.5	7.50	63.3	2.49	M14	41.0	55	
910-039	Twin Disc	184.2	7.25	6	19.0	0.75	152.4	6.00	95.25	3.75	190.5	7.50	63.3	2.49	5/8 UNF	41.0	55	O O
910-040	PRM	184.2	7.25	6	16.0	0.63	152.4	6.00	95.25	3.75	190.5	7.50	63.3	2.49	5/8 UNF	41.0	55	O
910-041		292.1	11.5	8	25.4	1.00	247.6	9.75	152.4	6.00	292.1	11.5	58.4	2.30	5/8 UNF	104.4	140	O
910-042	Dong-I DMT 170HL	287.2	11.3	6	25.1	0.98	240.0	9.45	160.0	6.30	292.1	11.5	58.4	2.30	5/8 UNF	67.0	90	O
910-043	Yanmar	101.6	4.00	4	10.0	0.39	78.0	3.07	50.0	1.97	114.3	4.5	32.5	1.28	M10	3.73	5	
910-044	B/W, PRM, ZF-Hurth, Volvo	127.0	5.00	4	11.2	0.44	107.9	4.25	63.5	2.50	143.0	5.6	45.0	1.77	7/16 UNF	5.97	8	
910-045		340.0	13.38	8	25.4	1.00	295.3	11.63	152.4	6.00	348.0	13.7	108.0	4.25	3/4 UNF	171.5	230	O O
910-046	Allison M25	228.6	9.00	8	19.0	0.75	190.5	7.50	152.4	6.00	222.2	8.75	44.5	1.75	1/2 UNF	48.47	65	O
910-047	Dong-I DMT 260H	292.1	11.5	6	21.0	0.826	240.0	9.45	150.0	5.90	292.1	11.5	58.4	2.30	5/8 UNF	67.0	90	O
910-048	Twin Disc MG 5111 SC	228.6	9.00	6 (8)	22.6	0.89	190.5	7.50	152.4	6.00	222.2	8.75	62.7	2.47	1/2 UNF	48.47	65	O X O
910-049	ZF 325-1A Volvo Flange	205.0	8.07	10	18.0	0.71	170.0	6.69	140.0	5.51	223.0	8.78	124.0	4.88	M18	56	75	
910-050	Twin Disc 510A/5114A	230.0	9.00	8	22.6	0.89	190.5	7.50	152.4	6.00	230.0	9.00	101.6	4.0	1/2 UNF	63.38	85	O
910-051	Twin Disc MG 521	279.4	11.00	8	19.0	0.75	241.3	9.50	152.4	6.00	260.4	11.25	58.4	2.30	5/8 UNF	89.48	120	O
910-052	Lister	120.7	4.75	6	11.2	0.44	98.5	3.88	63.5	2.50	150.9	5.94	69.9	2.75	7/16 UNF	7.46	10	
910-053	Dong-I DMT 150H	218	8.58	6	20.0	0.79	180.0	7.09	140.0	5.51	222.2	8.75	45.0	1.77	1/2 UNF	35.8	48	O
910-054	Open Centre V Drive 58mm Bore	146.0	5.75	6	12.7	0.50	120.6	4.75	76.2	3.00	172.0	6.77	47.5	1.87	1/2 UNF	17.9	24	
910-055	Open Centre V Drive 52mm Bore	127.0	5.00	4	11.2	0.44	107.9	4.25	63.5	2.50	162.0	6.38	45.0	1.77	7/16 UNF	5.2	7	#
910-057	B/W, Hurth, Volvo	127.0	5.00	4	11.2	0.44	107.9	4.25	63.5	2.50	143.0	5.63	52.4	2.06	7/16 UNF	18.64	25	
910-058	Dong-I DMT 70T, 90T, 100T	178.0	7.00	6	16.0	0.63	152.0	5.984	100.0	3.94	190.5	7.50	63.3	2.49	5/8 UNF	41.0	55	
910-059	Volvo	101.6	4.00	4	10.0	0.39	80.0	3.15	60.0	2.36	114.3	4.5	35.6	1.40	M10	5.96	8	
910-060	TMP	112.8	4.44	2	11.2	0.44	81.0	3.19	----	----	112.8	4.44	38.1	1.50	7/16 UNF	2.42	3.25	
910-061	Open Cntre V Drive 52mm Bore	127.0	5.00	4	11.2	0.44	107.9	4.25	63.5	2.50	162.0	6.38	52.6	2.07	7/16 UNF	14.16	19	
910-062	Dong-I DMT 140H	198.0	7.80	6	16.0	0.63	170.0	6.69	130.0	5.12	210.0	8.27	48.2	1.90	M16	47.0	63	
910-063	Open Centre V Drive 58mm Bore	146.0	5.75	6	12.7	0.50	120.6	4.75	76.2	3.00	172.0	6.77	55.5	2.185	1/2 UNF	23.8	32	
910-064	Open Centre V Drive 67mm Bore	184.2	7.25	6	16.0	0.63	152.4	6.00	95.25	3.75	230.0	9.06	63.8	2.51	5/8 UNF	37.3	50	
910-065	Dong-I DMT18A.DMT 25AL	112.0	4.41	4	12.0	0.47	90.0	3.54	62.0	2.44	114.0	4.49	45.5	1.79	M12	5.97	8	
910-066	Twin Tisc MG5111	228.6	9.00	8	22.6	0.89	190.0	7.50	152.4	6.00	228.6	9.00	101.1	3.98	1/2 UNF	63.43	85	
910-067	ZF 63IV	130.0	5.12	4	11.5	0.45	107.9	4.25	63.5	2.50	162	6.38	52.25	2.06	7/16 UNF	17.91	24	
910-068	Yanmar	101.6	4.00	4	10.0	0.39	78.00	3.07	50.0	1.97	114.3	4.5	35.9	1.41	M10	5.97	8	

O These couplings are fitted with a shouldered bush to locate in the gearbox flange
X These flexible couplings have been approved by **LLOYDS REGISTER OF SHIPPING** | **O** These flexible couplings have been approved by **BUREAU VERITAS**
For the Hurth HBW 150 V Gearbox an adaptor 202-351 is required (22.3 mm 0.875" long)

For the IRM 220A Gearbox, we can supply adapter plate 202-384 (54mm 2.125" long) and for the Twin Disc 502 Gearbox, adapter plate 202-148 (54mm 2.125" long) that bolt onto flexible coupling 910-003, 910-025 or 910-032 and with half coupling 202-037 or 202-054, alternatively clamp type 202-176 or 202-178

HP x 0.7457 = KW KW x 1.341 = HP

Coupling Selection Guide

ALLISON

M25 9" Flange 910-046

BORG WARNER

4" Flange 910-001, 910-004, 910-014
70C
71C
500
1000
1500

5" Flange 910-009(BW) 910-029, 910-044(BW), 910-057
71C
72C
5000

6" Flange 910-003, 910-025, 910-032
73C
7000

BUKH

4" Flange 910-013, 910-028

DONG I

DMT 70T 178 mm Flange 910-058
DMT 90T
DMT 100T
DMT 134H 198 mm Flange 910-062
DMT 140H
DMT 144H 218 mm Flange 910-053
DMT 150H
DMT 170HL 287 mm Flange 910-042
DMT 260H 292 mm Flange 910-047

ENFIELD and SONIC DRIVES

2 Bolt 910-021

LISTER

4 ½" Flange 910-052

NEWAGE PRM

S= Shallow Case, D= Deep Case

4" Flange 910-001, 910-004, 910-014
Delta
80
120
150

5" Flange 910-009(PR) 910-044(PR)
101 910-029
140
160
260

6" Flange 910-003, 910-025, 910-032
175
265
301
302
310
401
402
500
750
601 3:1
1000 3:1

7 ¼" Flange 910-018, 910-040
601 4:1
1000 4:1
1200S
1500S
1750S

10 ½" Flange 910-024
1200D
1500D
1750D

PARAGON

4" Flange 910-005

SELF CHANGE GEARS

8 ¼" Flange 910-015
350HD

10 ¼" Flange 910-016
700

TAIPEOUNGYANG

178 mm Flange 910-038
TK250

TECHNODRIVE

4" Flange 910-001, 910-004, 910-014
TMC30
TMC40
TMC50
TMC60
TM260

5" Flange 910-009(PR) 910-029
TM93 - needs spacer 202-560 910-044(PR)
TM93A
TM170
TM170A
TM345
TM345A
TM485A
TM545A
TM880A

6" Flange 910-006, 910-026, 910-033
TM130B
TM200B up to 1.28: 1
TM265
TM265A

7 ¼" Flange 910-018
TMC200B up to 4.48: 1
TM1200A

TMP

2 Bolt 910-060

5" Flange 910-009(PR) 910-044(PR)
12000

TWIN DISC

SC= Shallow Case, DC= Deep Case

4" Flange 910-001, 910-004, 910-014
MG 340
MG 360
MG5010SC
MG5011SC
MG5010V

4 ¾" Flange Adaptor 202-148 with
MG502-I 910-003, 910-025, 910-032
MG502-V

5" Flange 4 ⅛ PCD 910-036
MG5010A
MG5011A

5" Flange 4 ¼ PCD 910-009(PR) 910-044(PR)
MG5005A 910-029, 910-057
MG5012SC
MG5015A
MG5020SC
MG5055A

6" Flange 910-006, 910-026, 910-033
MG5010DC
MG5050
MG5050-V
MG5050-A
MG5061SC
MG5061-A
MG5061V
MG5062V
MG506-1
MG506A-1
MG507-1
MG507A-1
MG5075IV
MG5075-A
MG5075SC

7 ¼" Flange 910-017, 910-039
MG506DC
MG5065A
MG507-1
MG507-1SC
MG507-2SC
MG507A-2
MG5075A - needs adaptor 202-356
MG5075SC
MG5075IV
MG5081SC
MG5081A - needs adaptor 202-356
MG5082A
MG5082SC
MG5085SC - needs adaptor 202-356
MG5085A - needs adaptor 202-356
MG5090A
MG509SC
MG509U
MG5091SC
MG5095A
MGX5095A

TWIN DISC cont`d

9" Scalloped Flange 910-048
MG5111SC
MG5114SC

9" Flange 910-022, 910-050
MG510SC
MG510A
MG5111A
MG5114A
MG5111V,
MG5114V
MG514CU
MG514U
MG5135A
MG&MGX5126A - Special long bolts for flange

10 ½" Flange 910-024
MG5091DC
MG509DC
MG510DC
MG5111DC
MG5114DC
MG5113
MG514

VOLVO

4" Flange 910-007
MS
RB

4" Flange 910-019, 910-020, 910-059
MS 2
MS 10
MS 15
MS25

5" Flange 910-009(VO), 910-029
MS 3 910-044(VO), 910-057
MS4
MS5
HS25A
HS45A
HS63A

6" Flange 910-006, 910-026
HS80A 910-033
HS85AE

YANMAR (KANZAKI)

4" Flange 78mm PCD 910-002
KBW10 910-043
KM2 910-068
KM3
KM35

5" Flange 100mm PCD 910-012
KBW20
KBW21
KM4
KM4A
KMH4A

5 ½"Flange 4 ¼ PCD 910-009, 910-029, 910-037
KM40 910-057
KM5
KMH40A
KMH41A
KMH50
KMH50A
KMH50V 910-034, 910-055, 910-061
KMH51A

5 ½"Flange 4 ¼ PCD 910-034, 910-055, 910-061
KMVH50 910-067

6" Flange 910-006, 910-026, 910-033
KMH6
KMH60
KMH61A
KMH61V 910-063

ZF-HURTH

4" Flange 910-001, 910-004, 910-014
ZF
35 HBW 35
40 HBW 4M
50 HBW 5M
100 HBW 10M
125H HSW 12
125 HBW 12M
150 HBW 15M
150A HBW 15MA
250 HBW 25M
250H HSW 25
250A HSW 25A
25MA
30M
45A 1.25:1
450D HSW 45C

ZF HURTH cont`d

4 ¼ " Adaptor 202-384 with 910-003 910-025, 910-032
ZF
220A-1 IRM 220A
225Az

5" Flange 910-009(PR), 910-029 910-044(PR), 910-057

HBW	HSW	ZF
360		
	450H2	
	450A2	45A
	450D	45C
	630H1	63
	630A1	63A
	630D	63C
		88C
		90TS
		90ATS
		110TS

6" Flange 13.2 mm bolt holes 910-003, 910-025, 910-032
ZF
45-1

6" Flange 16.3mm bolt holes 910-006, 910-026, 910-033

HSW	IRM	ZF
800A2		80A
800A3		80-1A
		85A
		220 needs adaptor 202-329
		280A
		280-1
	280V-LD	280-1A
	280PL	280IV
		280
		285A
		285IV
		286
		286A
		286IV
		300TS
		300-1TS
		300ATS
		300-1ATS
	301PL-2	301C
	301A-2	301A
	300VTS	300IVTS
		110ATS
		110IVTS

7 ¼" Flange 910-017, 910-039
IRM
311

8" Flange 910-049

IRM	ZF
311PL	311
	325-1A Volvo
	335A
350PL-2	350
350A-2	350A
350PL-1	
350A-1	
	350 TS
	350 ATS
350V	350V
350V-LD	350 IV
	360A
	500A
	500-1A

8 ¾" Flange 910-027

IRM	ZF
320-2	W320
	320A

ZF-HURTH V DRIVE

4" Flange Adaptor 202-351 with

HSW	ZF	910-034, 910-055, 910-061
150V	15M IV	

5" Flange 910-034, 910-055, 910-061

HSW	ZF	910-067
	90 IVTS	
630V	63 IV	

6" Flange 910- 054, 910-063

HSW	ZF
	110 IVTS
220V-2	220 IV
800V	80 IV
800V2	80-1IV

7 ¼" Flange Adaptor 202-552 with

ZF	910-064
302 IV	

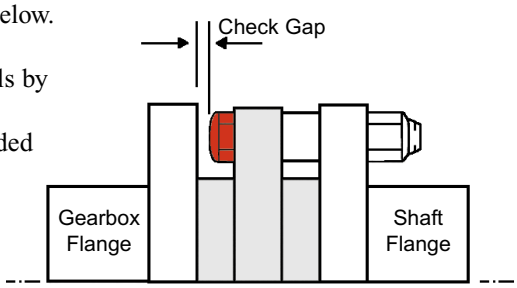
8" Flange 910-049

ZF
325 IV
350-IV
370V
500-1 IV

Couplings 910-030, 910-035, 910-041 and 910-045 will require suitable adaptors for the gearbox flange

INSTALLATION PROCEDURE FOR R & D MARINE COUPLINGS

1. Roughly align engine and stern gear without flexible coupling i.e. only two rigid half couplings pushed together.
2. Bolt "R & D Marine" coupling between the two rigid couplings. Tightening details as below.
3. Check alignment of engine by placing feeler gauges between the **RED CONE HEADED BOLT** and the rigid half coupling. Repeat for the **SAME** bolt at 90° intervals by rotating the shaft.
4. If the gap is the same in all four positions, the engine is accurately aligned. Recommended minimum to maximum gap difference: 0.25 mm / 0.010 inch.
5. Run installation to bring engine compartment to working temperature. Re-check torque settings.



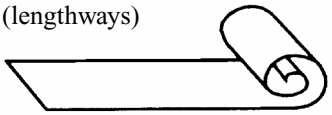
Recommended tightening torque:
M8 - 27 Nm *20 lbsft* 3/8 UNF - 40 Nm *30 lbsft* M10 - 54 Nm *40 lbsft* 7/16 UNF - 81 Nm *60 lbsft* M12 - 108 Nm *80 lbsft*
1/2 UNF - 100 Nm *75 lbsft* 5/8 UNF - 210 Nm *155 lbsft* M18 - 338 Nm *250 lbsft* 3/4 UNF - 366 Nm *270 lbsft*

EARTHING CONNECTORS

'R & D Marine' Earthing Connector consists of a silver impregnated rubber strip, which when fitted through the axis of the coupling between the two fail safe straps gives electrical continuity. R & D have sizes to fit most 910 series couplings.

INSTALLATION PROCEDURE FOR R&D EARTHING CONNECTORS

1. While carrying out the following procedure, ensure that the connector is not contaminated by grease or dirt.
2. Before fitting the coupling into the drive train, remove 2 off bolts holding one of the fail safe straps.
3. Remove the fail safe strap to uncover the hole in the centre of the coupling.
4. Roll up the earthing connector (lengthways) as tight as possible.



5. Push into the hole previously uncovered by removing the strap as far as possible.
6. Replace the fail safe strap ensuring that the connector is not damaged, replace 2 off bolts.
7. Fit the coupling as per the installation instructions.
8. Check electrical continuity on installation and thereafter at three to six month intervals.

R & D Marine Earthing Connector Application Guide		
Part No	**Size (mm)**	**To Suit Coupling**
103-036	**9 x 57**	**910-021**
103-037	**11 x 57**	**910-001, 002, 007, 013, 014, 019, 020, 028, 043**
103-038	**15 x 57**	**910-004, 005**
103-039	**17 x 57**	**910-003, 006, 009, 012, 036, 037, 044, 052**
103-040	**19 x 57**	**910-017, 018, 025, 026**
103-041	**23 x 57**	**910-029, 038, 039, 040, 057**
103-042	**25 x 57**	**910-032, 033**
103-043	**15 x 75**	**910-015, 016, 022, 024, 046, 048, 053**
103-044	**17 x 75**	**910-030, 041, 042, 047, 051**
103-047	**9 x 30**	**910-035, 045, 049, 050**
103-053	**19 x 75**	**910-062**

Designs are subject to constant review and improvement therefore we reserve the right to amend any dimension or detail specified or illustrated in this publication without notice and without incurring any obligation to provide such modification to products previously delivered.

R & D MARINE LTD.

Meadow Works
Clothall Road
Baldock
Hertfordshire
England
SG7 6PD

Contact Us By:
Tel: +44 (0)1462 892391
Fax: +44 (0)1462 896448
Web Site: www.randdmarine.com
E mail: info@randdmarine.com