

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.

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 140H 198 mm Flange 910-062
DMT 150H 218 mm Flange 910-053
DMT 170HL 287 mm Flange 910-042
DMT 260H 292 mm Flange 910-047

ENFIELD and SONIC DRIVES

2 Bolt 910-021

LISTER

4 1/2" 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 1/2" Flange 910-018, 910-040

601 4:1
1000 4:1
1200S
1500S
1750S

10 1/2" Flange 910-024

1200D
1500D
1750D

PARAGON

4" Flange 910-005

SELF CHANGE GEARS

8 3/4" Flange 910-015

350HD
10 3/4" 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

7 1/4" 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 3/4" Flange Adaptor 202-148 with
MG502-I 910-003, 910-025, 910-032

MG502-V
5" Flange 4 1/2 PCD 910-036

MG5010A
MG5011A
5" Flange 4 1/2 PCD 910-009(PR) 910-044(PR) 910-029, 910-057

MG5005A
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 1/2" 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

10 1/2" 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

YANMAR (KANZAKI)

4" Flange 78mm PCD 910-002

KBW10 910-043
KM2
KM3
KM35

5" Flange 100mm PCD 910-012

KBW20
KBW21
KM4
KM4A
KMH4A

5 1/2" Flange 4 1/2 PCD 910-009, 910-029, 910-037

KM40 910-057
KM5

KMH40A
KMH41A
KMH50
KMH50A
KMH51A

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
40 HBW
50 HBW
100 HBW
125H HSW
125 HBW
150 HBW
150A HBW
250 HBW
250H HSW
250A HSW

ZF
35
4M
5M
10M
12
12M
15M
15MA
25M
25
25A
25MA
30M
45A 1.25:1
45C

ZF HURTH cont`d

4 3/4" 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 1/2" Flange 910-017

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 3/4" 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 90 IVTS
63 IV

6" Flange 910-054, 910-063

HSW ZF
110 IVTS

220V-2 220 IV
800V 80 IV
800V2 80-1IV

7 1/2" Flange Adaptor 202-552 with
ZF 910-064
302 IV

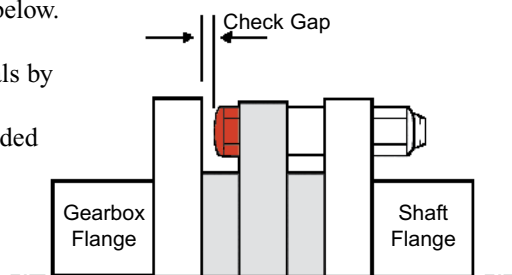
8" Flange 910-049

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:

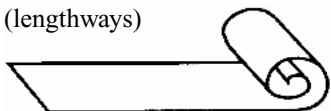
M8 - 27 Nm *20 lbsft* 3/8 UNF - 40 Nm *30 lbsft* M10 - 61 Nm *45 lbsft* 7/16 UNF - 81 Nm *60 lbsft* M12 - 108 Nm *80 lbsft*
 1/2 UNF - 100 Nm *75 lbsft* 5/8 UNF - 210 Nm *155 lbsft* M18 - 338 Nm *250 lbsft* 3/4 UNF - 366 Nm *270 lbsft*

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.

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