

Simple

Marine

Couplings & Flange Adaptors
Approved & Pre-assembled Fittings



PIPE CONNECTIONS, REPAIR & FLOW CONTROL PRODUCTS FOR THE UTILITIES INDUSTRY

CRANE

BUILDING SERVICES & UTILITIES



Pre-assembled & Approved Fittings for Marine Applications

The proven Marine range has been designed and approved for use in marine environments. Alongside all the features and benefits of Viking Johnson's standard range, the marine fittings have attained international seals of approval from prominent marine authorities including Lloyds Register, American Bureau of Shipping (ABS), DNV and Bureau Veritas.

Allowing for Movement

In marine installations, pipework is often anchored to the frame of the vessel so particular care must be taken to allow for the movement of pipework as the ship travels. Marine couplings and flange adaptors aim to relieve the strain and stress that pipework may experience on board.

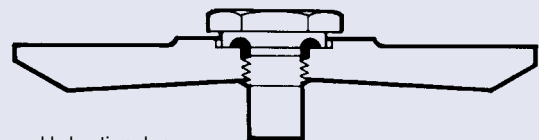
Enhanced Design Features

The Marine range has enhanced design features including a galvanized finish, nitrile gasket and a locating plug which prevents coupling creep caused by repeated pipe movement. The removable locating plug ensures the coupling can slide fully over the pipe ends to ease installation and when installed, they engage between the pipe ends preventing the coupling moving beyond fixed limits.



Typical Marine Applications

- ▶ Deck wash
- ▶ Sanitary supply
- ▶ Domestic fresh water
- ▶ Oil fuel transfer lines
- ▶ Scupper and discharge lines
- ▶ Cargo oil lines in tankers
- ▶ Hold-sounding pipes
- ▶ Inert gas
- ▶ Bilge lines
- ▶ Ballast lines
- ▶ Fuel and lubricating oil
- ▶ Filling and vent pipes
- ▶ Fresh and salt water systems



Removable locating plug.



Marine Couplings & Flange Adaptors

Product Design Benefits

Corrosion Protection

Available as standard with galvanised body and bolts for the most arduous conditions.



Fixed Fitting

Removable locating plug prevents coupling creep caused by continuous vibrations found onboard along with movement from temperature variations.



Simple to Fit

Captive, non-rotating bolt head requires single spanner/ torque wrench to make installation simple with one bolt size (M12) across range and one bolt torque (55-65Nm) for all pipe materials.

Reduces Noise

Resilient gasket helps absorb both noise and vibration.



Customer Benefits

- ▶ The Marine design allows angular movement, which caters for minor misalignment and pipe deflection with couplings up to 6° and flange adaptors to 3°. Vessel movement can be accommodated without using specialised fittings.
- ▶ Marine couplings are capable of accommodating 10mm of expansion/contraction per fitting, flange adaptors 5mm which reduces the need for supplementary expansion joints or bellows.

- ▶ Marine products up to DN300 are pre-assembled allowing quick and efficient installation, without the need for dismantling, even in the most difficult of conditions.



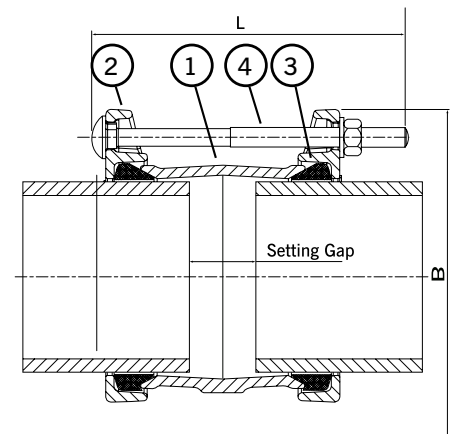
Marine Couplings

Specifications

Marine Couplings

Setting gap Recommended - 30mm
 Max - 40mm
 Bolt torque 55-65Nm

1 = Centre Sleeve
 2 = End Ring
 3 = Gasket
 4 = Bolts



Pipe OD (mm)	W.P. (bar)	No. Plugs	End Ring OD B (mm)	L (mm)	Bolt Size No.-Dia x Length	Gasket Mould No.	Weight (kg)
047.9 - 051.3	46.6	1 Plug	136	188	2-M12 x 180	12477/41	2.22
059.5 - 063.3	46.6	1 Plug	148	188	2-M12 x 180	12477/1	2.51
075.3 - 079.1	46.6	1 Plug	164	188	2-M12 x 180	12477/5	2.89
088.1 - 091.9	46.6	1 Plug	177	188	4-M12 x 180	12477/7	3.81
107.2 - 111.0	46.6	1 Plug	196	188	4-M12 x 180	12477/12	4.26
113.5 - 120.2	46.6	1 Plug	205	188	4-M12 x 180	12477/15	4.48
138.9 - 142.7	44.0	1 Plug	228	188	4-M12 x 180	12477/19	5.02
158.2 - 162.0	38.8	1 Plug	254	188	4-M12 x 180	12477/21	6.32
167.5 - 172.3	36.9	1 Plug	264	188	4-M12 x 180	12477/24	6.59
192.2 - 196.7	32.2	2 Plug	292	188	4-M12 x 180	12477/26	8.06
218.3 - 224.4	35.8	2 Plug	319	188	4-M12 x 180	12477/29	8.89
272.2 - 276.5	34.8	2 Plug	372	188	6-M12 x 180	12477/34	11.15
323.1 - 328.6	29.5	2 Plug	424	188	6-M12 x 180	12477/37	12.76
355.6	23.2	2 Plug	446	243	6-M12 x 235	J51LS	19.60
406.4	27.2	2 Plug	497	243	8-M12 x 235	J53LS	22.40
457.0	24.2	3 Plug	548	243	8-M12 x 235	J55LS	24.90
508.0	27.4	3 Plug	598	243	10-M12 x 235	J57LS	27.80
560.0	24.9	3 Plug	649	243	10-M12 x 235	J59LS	30.20
610.0	22.9	3 Plug	700	243	10-M12 x 235	J60LS	32.70
660.0	24.3	3 Plug	751	243	12-M12 x 235	J61LS	35.50
711.0	22.6	3 Plug	802	243	12-M12 x 235	J63LS	38.00

Materials & Relevant Standards

Coating

Galvanised

Locating Plugs

Zn¹⁰

Gasket

Nitrile (NBR)

Pressure

Working Pressure = As noted in table (Test Pressure = 1.5 x W.P.)

Bolts/Nuts

Galvanised

Consult relevant technical literature for full details on product.

Marine Couplings DO NOT resist end load - adequate restraint must be provided

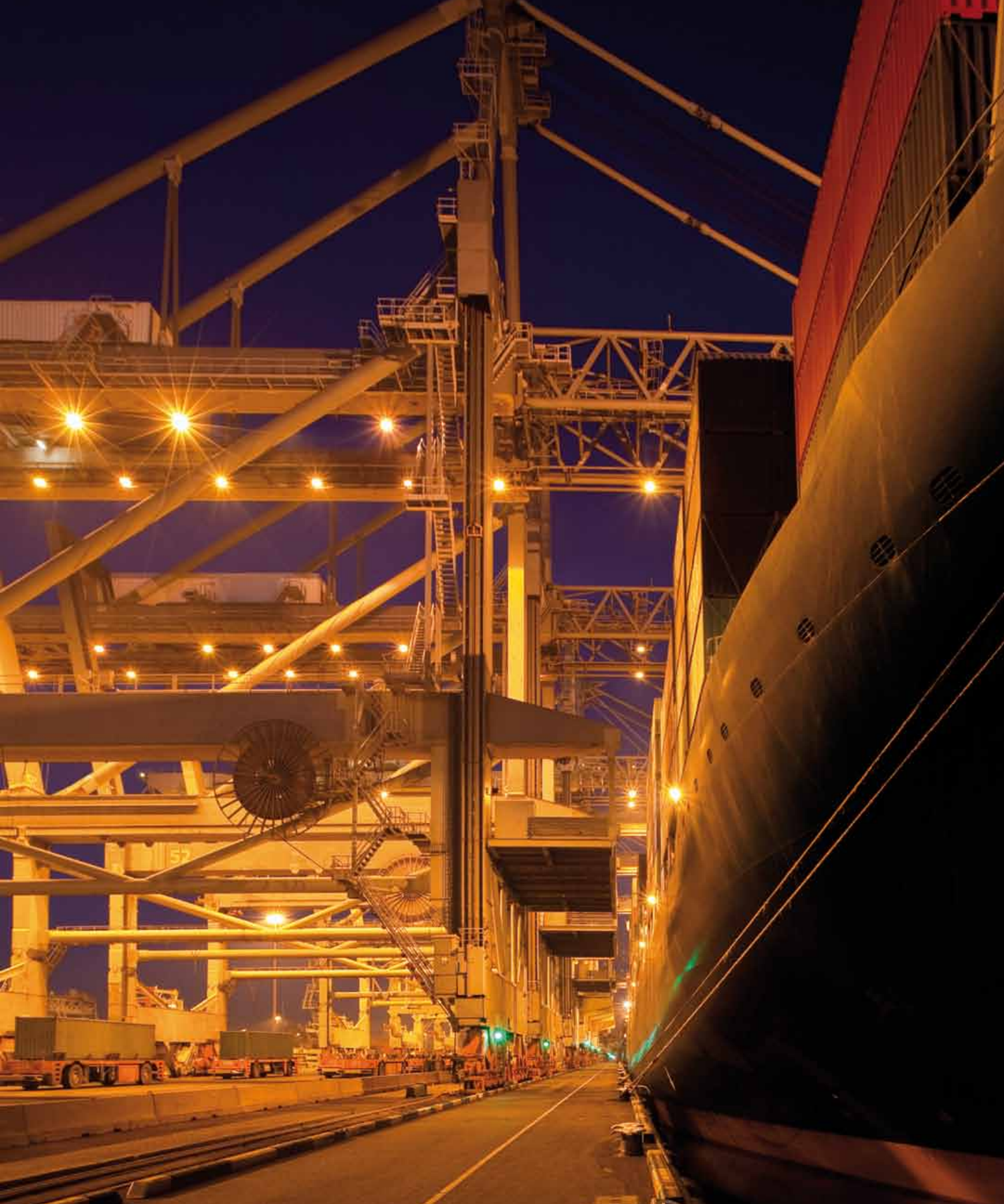
Options

NBR Gasket without removable plugs
 EPDM Gasket with removable plugs
 EPDM Gasket without removable plugs

Couplings are also available with Rilsan or Epoxy coating, with same gasket and plug

Flange adaptors available on request

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**Marine range - Internationally approved & designed
to withstand the most arduous conditions**

United Kingdom

'Dunfords' Bulk Carrier

Marine Couplings

Project

'Dunfords', a 30,000 tonne bulk carrier is equipped with marine couplings in the bilge & ballast sections of the vessel.



To visit our Video Library go to:
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