



PIONEERS IN PIPE SOLUTIONS

Marine Couplings & Flange Adaptors

Overview







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 American Bureau of Shipping (ABS) 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

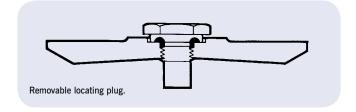
The Marine range has enhanced design features including a galvanized finish, nitrile gasket and a locating plug which prevents coupling creep caused by repeated pipe movement. The removable locating plug ensures the coupling can slide fully over the pipe ends to ease installation and when installed,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



Typical Marine Applications

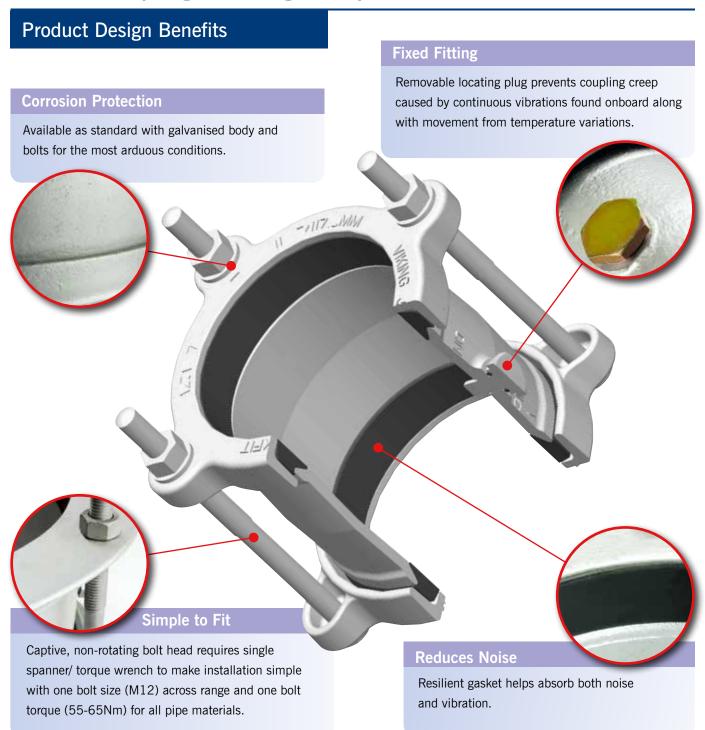
- > Deck wash
- > Sanitary supply
- Domestic fresh water
- Oil fuel transfer lines
- Scupper and discharge lines
- Cargo oil lines in tankers
- Hold-sounding pipes

- Inert gas
- Bilge lines
- > Ballast lines
- > Fuel and lubricating oil
- Filling and vent pipes
- Fresh and salt water systems





Marine Couplings & Flange Adaptors



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.

www.vikingjohnson.com Viking Johnson Marine

Marine Couplings

Specifications

Marine Couplings

Bolt torque 55-65Nm Working Pressure As noted in table

(Test Pressure = $1.5 \times W.P.$)

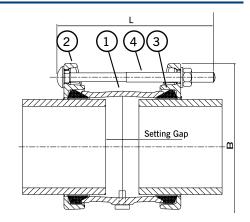
Consult relevant technical literature for full details on product.

1 = Centre Sleeve

2 = End Ring

3 = Gasket

4 = Bolts



Marine Couplings DO NOT resist end load due to the internal pressure - adequate external restraint must be provided to prevent pipe pull out.

Pipe OD (mm)	W.P. (bar)	No. Plugs	End Ring OD B (mm)	L (mm)	Bolt Size NoDia x Length	Setting gap		Gasket	Weight
						Min	Max	Mould No.	(kg)
047.9 - 051.3	46.6	1 Plug	136	188	2-M12 x 180	30	40	12477/41	2.22
059.5 - 063.3	46.6	1 Plug	148	188	2-M12 x 180	30	40	12477/1	2.51
075.3 - 079.1	46.6	1 Plug	164	188	2-M12 x 180	30	40	12477/5	2.89
088.1 - 091.9	46.6	1 Plug	177	188	4-M12 x 180	30	40	12477/7	3.81
107.2 - 111.0	46.6	1 Plug	196	188	4-M12 x 180	30	40	12477/12	4.26
113.5 - 120.2	46.6	1 Plug	205	188	4-M12 x 180	30	40	12477/15	4.48
138.9 - 142.7	44.0	1 Plug	228	188	4-M12 x 180	30	40	12477/19	5.02
158.2 - 162.0	38.8	1 Plug	254	188	4-M12 x 180	30	40	12477/21	6.32
167.5 - 172.3	36.9	1 Plug	264	188	4-M12 x 180	30	40	12477/24	6.59
192.2 - 196.7	32.2	2 Plug	292	188	4-M12 x 180	30	40	12477/26	8.06
218.3 - 224.4	35.8	2 Plug	319	188	4-M12 x 180	30	40	12477/29	8.89
272.2 - 276.5	34.8	2 Plug	372	188	6-M12 x 180	30	40	12477/34	11.15
323.1 - 328.6	29.5	2 Plug	424	188	6-M12 x 180	30	40	12477/37	12.76
355.6	23.2	2 Plug	446	243	6-M12 x 235	35	50	J51LS	19.60
406.4	27.2	2 Plug	497	243	8-M12 x 235	35	50	J53LS	22.40
457.0	24.2	3 Plug	548	243	8-M12 x 235	35	50	J55LS	24.90
508.0	27.4	3 Plug	598	243	10-M12 x 235	35	50	J57LS	27.80
560.0	24.9	3 Plug	649	243	10-M12 x 235	35	50	J59LS	30.20
610.0	22.9	3 Plug	700	243	10-M12 x 235	35	50	J60LS	32.70
660.0	24.3	3 Plug	751	243	12-M12 x 235	35	50	J61LS	35.50
711.0	22.6	3 Plug	802	243	12-M12 x 235	35	50	J63LS	38.00

Materials & Relevant Standards

Centre Sleeve and End Rings

Ductile Iron to BS EN1563 Symbol EN-GJS-450-10 or Steel to BS EN10025-2 Grade S275JR

Gaskets

EPDM to BS EN681-1, TYPE WA, WC Nitrile to BS EN682 Type G Other grades are available

- contact Viking Johnson for details

Bolt

Steel to BS EN ISO 898-1 property class 4.8

Nuts/Washers/Locating Plugs

Nuts - Steel to BS EN 20898-2 property class 8 Washer - Stainless Steel to BS1449:Part 2 GRADE 304S15

Locating Plugs - Steel to BS970: Part 3: Grade 230M07

Coating

Centre sleeve / End Ring / Bolts / Nuts

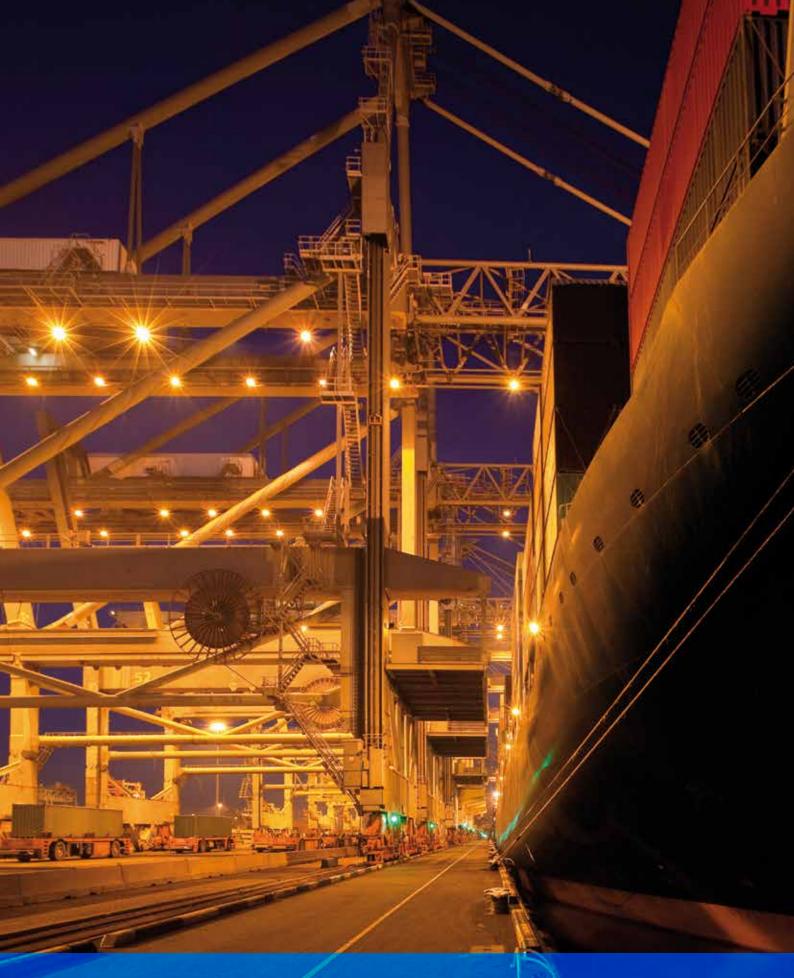
- Galvanised

Locating Plug - Zn10

Options

NBR Gasket without removable plugs EPDM Gasket with removable plugs EPDM Gasket without removable plugs Flange adaptors available on request

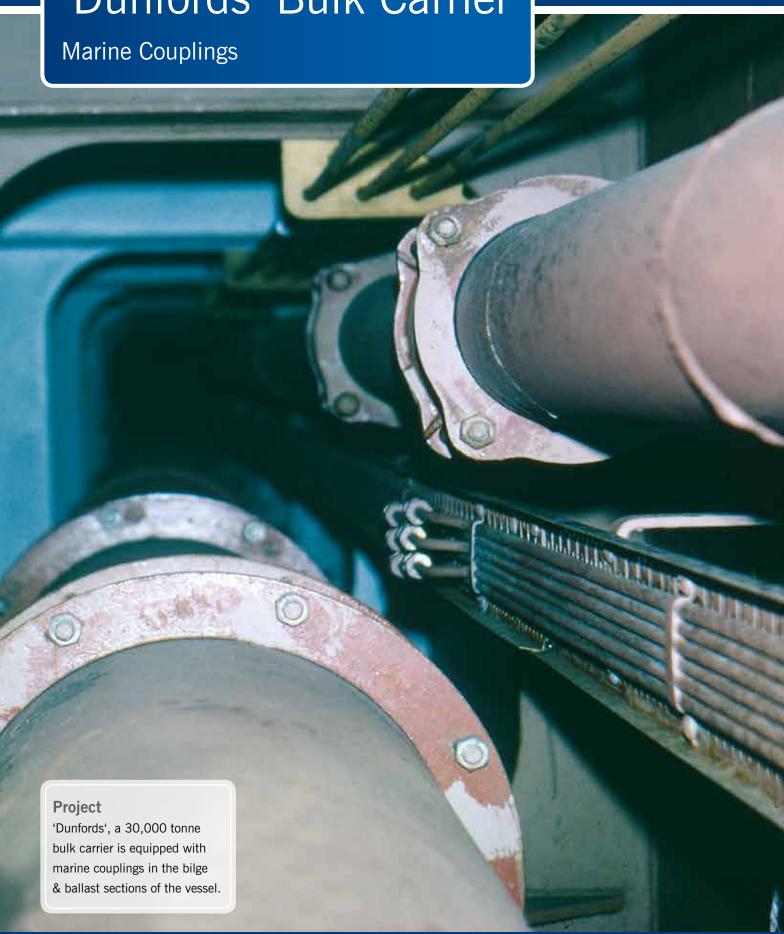
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Marine range - Internationally approved & designed to withstand the most arduous conditions

www.vikingjohnson.com Viking Johnson Marine

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