

# BRIDGLAND

## EPDM RUBBER GASKETS

### SPECIFICATIONS

<b>Size Range</b>	DN40 - DN300
<b>Material</b>	Solid EPDM Rubber
<b>Thickness</b>	3mm
<b>Tensile Strength</b>	9.6 MPa
<b>Elongation</b>	510%
<b>Hardness</b>	70 IRHD
<b>Maximum Temperature</b>	50°C
<b>Compression Set</b>	72 hrs @23°C 14% 24 hrs @70°C 9%
<b>Allowable Operating Pressure:</b>	1600kPa
<b>Allowable Site Test Pressure:</b>	2400kPa



### BRIDGLAND PN16 FLANGE GASKET DIMENSIONS TO AS 2129 Table E

Product Code	Nominal Size	Outside Diameter (mm)	Inside Diameter (mm)	Number of Holes	Pitch Circle Diameter (P.C.D)	Hole Diameter (mm)
1112857	DN40	135	48	4	98	14
1112858	DN50	150	60	4	114	18
1112859	DN65	165	76	4	127	18
1112860	DN80	185	89	4	146	18
1112861	DN100	215	114	8	178	18
1112862	DN125	255	140	8	210	18
1112863	DN150	280	168	8	235	22
1112864	DN200	335	220	8	292	22
1112865	DN250	405	273	12	356	22
1112866	DN300	455	324	12	406	26

### BRIDGLAND PN16 FLANGE GASKET DIMENSIONS TO AS 2129 Table D TO SUIT PN16 DUCTILE IRON FLANGES TO AS/NZS 4087

1112867	DN100	215	114	4	178	18
1112868	DN150	280	168	8	235	18
1112869	DN200	335	220	8	292	18
1112870	DN225	370	245	8	324	18
1112871	DN250	455	273	8	356	22
1112872	DN300	455	324	12	406	22

### FEATURES

- Flange gaskets manufactured to comply with WSA 109, type WA for cold drinking water supply (up to 50°C)
- Compliant with AS/NZS 4020 - suitable for drinking water and waste water applications
- Flat, full face gasket for easy installation
- Made from solid EPDM rubber
- High tensile strength to reduce incidence of extrusion from flanges
- Gaskets may be used for PN16 flange joints for all metallic pipe line materials including iron, steel, copper and copper alloys

Disclaimer Products in this specification manual must by regulation be installed by licensed and registered trade people. The manufacturer/distributor reserves the right to vary specifications or delete models from their range without prior notification. Dimensions and set-outs listed are correct at time of publication however the manufacturer/distributor takes no responsibility for printing errors.



## INSTALLATION GUIDE FOR FLANGED JOINTS

1. Make sure that both flange faces are clean. Check bolt threads and nut threads are clean.
2. Apply suitable anti-seize thread lubricant to both nut threads and bolt threads.
3. Check alignment of flanges is parallel and support components to prevent stress on flanged joints throughout assembly.
4. Ensure flange bolts are correct size and length for thickness of flanges. The correct length of bolt should allow 2 complete bolt threads to be visible when the nut is hand tight.
5. Insert 4 bolts into bolt holes 1 to 4 (Fig. 1) and locate the gasket on the bolts carefully to prevent damage to gasket surface. Fit an appropriate size of washer under each bolt head and nut.
6. Align opposite flange carefully and tighten nuts finger tight.
7. Check alignment of flange faces and gasket is straight and even.
8. Insert all remaining bolts and tighten nuts finger-tight.
9. Select the bolt torque required from the Estimated Tightening Torque Values table. Use a torque wrench to assemble bolted connections in the following sequence:
  - a) Tighten nuts to 1/3 of the estimated torque value following the tightening sequence (Fig. 1)
  - b) Tighten nuts to 2/3 of the estimated torque value following the tightening sequence (Fig. 1)
  - c) Tighten nuts to the full estimated torque value following the tightening sequence (Fig. 1)
  - d) Final pass in a clockwise direction, tighten all nuts to the full estimated torque value

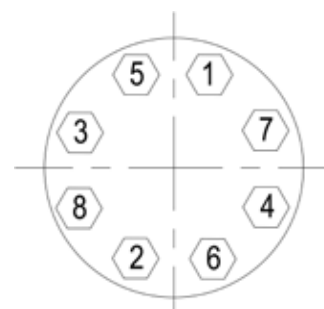


Fig 1. Flange bolt tightening sequence

### Note:

1. If too much torque is applied to fasteners during installation, the gasket can be overstressed causing crushing or extrusion and cause the joint to leak.
2. Refer to WSA 109 Industry Standard for Flange gaskets & O-Rings for further detail

## ESTIMATED TIGHTENING TORQUE VALUES

Nominal Size	Bolt Size	Lightly oiled grade 4.6 bolts galv. steel bolts & nuts (Nm)	Well lubricated grade 4.6 galv. steel bolts (Nm)	Well lubricated Grade 316 class 50 stainless steel bolts & nuts* (Nm)
DN40	M12	30	20	27
DN50	M16	70	40	65
DN65	M16	70	40	65
DN80	M16	70	40	65
DN100	M16	70	55	65
DN125	M16	70	55	65
DN150	M16	70	55	65
	M20	160	105	140
DN200	M16	70	55	65
	M20	160	105	140
DN225	M16	90	55	65
DN250	M20	160	105	140
DN300	M20	160	85	140
	M24	250	130	220

Note:\* Well lubricated bolts & nuts refer to use of molybdenum di-sulphide lubricant or an equivalent anti-galling product

## WARRANTY

You have purchased a quality product from Reece Australia. This product is covered by a 12 month warranty. This warranty covers faults in the product construction, material and assembly. Faulty products will be repaired or exchanged free of charge. Faulty items become our property. This warranty does not include faults caused by

- Unsuitable or improper use
- Incorrect installation
- Normal wear and tear
- Inadequate or complete lack of maintenance
- Chemical, electrochemical or electrical influences

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