

EPDM FLANGE GASKET KITS DUCTILE IRON PIPELINE SYSTEMS

DN 80 - DN 750 PN 16 Standard Pressure
Manufactured to comply with WSA 109



OVERVIEW

Available as individual gaskets or as gasket kits complete with bolts, nuts and washers.

Bolts, nuts and washers available in galvanised steel (grade 4.6) or stainless steel (class 50).

Manufactured from solid EPDM rubber.

High tensile strength to avoid extrusion from between flanges.

No insertion cloth - avoids potential leak path through gasket.

Full face for easy installation.

Each gasket branded for simple identification.

GENERAL APPLICATION

Dimax PN 16 Flange Gaskets are suitable for drinking water and wastewater applications. Used to effect a seal between AS 4087 Fig B5 ductile iron flanges on fittings and valves.

TECHNICAL DATA

Size Range

DN 80 - DN 750

Material

Solid EPDM Rubber

Thickness

3mm

Tensile Strength

12MPa

Elongation

300%

Hardness

70 IRHD

Compression Set

72h @ 23°C 12%

24h @ 70°C 14%

Allowable Operating Pressure

1600kPa

Allowable Test Pressure

2000kPa

Maximum Temperature

50°C

Certification

AS 4020 - Suitable for contact with drinking water

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FLANGE GASKET DIMENSIONS

NOMINAL SIZE DN	OD mm	ID mm	Number of Holes	Pitch Circle Diameter mm	Hole Diameter mm
80	*	82	4	146	18
100	*	108	4	178	18
150	**	161	8	235	18
200	335	216	8	292	18
225	370	241	8	324	18
250	405	268	8	356	22
300	455	325	12	406	22
375	550	406	12	495	26
450	640	485	12	584	26
500	705	536	16	641	26
600	825	641	16	756	30
750	995	796	20	927	33
TOLERANCES mm	+0, -5	DN 80 - 300: +0, -10 DN300: +0, -20	-	±0.5	±1
THICKNESS mm	1.5mm ± 0.1				

* Square outside profile
** Octagonal outside profile

ESTIMATED TIGHTENING TORQUE VALUES

NOMINAL SIZE DN	Bolt Size	Number of Bolts	Bolt Length mm	Bolt Tension kN	Estimated Torques, Nm		
					Galvanised		Stainless
					Lightly Oiled $\mu = 0.22$	Well Lubricated $\mu = 0.15$	Well Lubricated $\mu = 0.20$
80	M16	4	65	20	70	50	65
100	M16	4	75	20	70	50	65
150	M16	8	75	20	70	50	65
200	M16	8	75	20	70	50	65
225	M16	8	75	25	90	60	80
250	M20	8	90	35	160	110	140
300	M20	1	100	35	160	110	140
375	M24	12	120	50	270	180	240
450	M24	12	120	55	290	200	270
500	M24	16	120	55	290	200	270
600	M27	16	130	70	420	290	380
750	M30	20	140	80	530	360	480

* 'Lightly oiled' refers to the application of a good quality lubricating oil and is the usual as received condition of fasteners.

* 'Well lubricated' refers to the application of molybdenum disulphide grease, or equivalent antiseize compound.

* The estimated torques provided in the tables are based on the coefficients of friction (μ) indicated. Where other coefficients apply, alternative torques should be calculated.

* Required bolt tension and estimated torques have been assessed using established engineering principles, however, variation in installation procedures may result in different requirements.

DISCLAIMER

The information provided here is based on established engineering principles and is offered by The Reece Group, in good faith, as a source of information for its customers. Successful installation depends on numerous factors outside the Company's control and installers should be aware that these guidelines might not be successful for every installation. The Reece Group disclaims any liability to any person who solely relies on this information for the purpose of making a flange joint.

Call 1800 032 566 or visit www.reece.com.au/storefinder for your nearest branch.

CERTIFICATIONS

AS 4020 – Suitable for use in contact with drinking water

WSA 109 - Flanged Gaskets and O-Rings

TEADIT NA1000 GASKETS

DUCTILE IRON PIPELINE SYSTEMS

DN 80 - DN 900

Manufactured to comply with WSA 109



OVERVIEW

Style NA1000 is a compressed sheet gasket material produced from a combination of aramid, inert and reinforced fillers and bonded with nitrile rubber (NBR).

It is manufactured through the hot calendar process under rigorous quality control standards that are registered under ISO-9001 certification.

GENERAL APPLICATION

Style NA1000 is a premium soft gasket material that has numerous applications in the process industries and in the water and waste water industry.

Style NA1000 is suitable for service handling the following general media categories: mild acids; alkalies; water; brine; air; industrial gases; animal and vegetable oils; petroleum and derivatives; neutral solutions and refrigerants.

TECHNICAL DATA

Size Range
DN 80 - DN 900

Thickness
1.5mm

Maximum Continuous Temperature
80°C

Maximum Continuous Pressure
3.5MPa

Complies With
AS4087 Fig.B6 PN35 ductile iron flanges

Certification
AS 4020 - Suitable for contact with drinking water

PHYSICAL PROPERTIES

DENSITY - ASTM F1315 - g/cm ³	1.3
COMPRESSIBILITY - ASTM F36A %	15-25
RECOVERY ASTM - F36A %	50
IGNITION LOSS - ASTM F495 % MAX	36
TORQUE RETENTION - DIN 52913 MPa	37
TENSILE STRENGTH - ASTM F152 - MPa	13
SEALABILITY - DIN 3535 - mg/s.m	<0.001
IMMERSION ASTM F 146 THICKNESS INCREASE % MAX:	
- FUEL B: 5 h/25°C	15
- OIL IRM 903: 5 h/150°C	15
AVE DIELECTRIC STRENGTH kV/mm	10.0

* 2.0mm used for data comparison only

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80	205	82	8	165	18
100	230	108	8	191	18
150	305	161	12	260	22
200	370	216	12	324	22
225	405	241	12	356	26
250	430	268	12	381	26
300	490	325	16	438	26
375	580	406	16	521	30
450	675	485	20	610	33
500	735	536	24	673	33
600	850	641	24	781	36
750	1015	796	28	940	36
TOLERANCES mm	+0, -5	DN 80 - 300: +0, -10 DN300: +0, -20	-	±0.5	±1
THICKNESS mm	1.5mm ± 0.1				

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80	M16	8	110	50	180	120	160
100	M16	8	110	50	180	120	160
150	M20	12	130	80	350	240	320
200	M20	12	130	80	350	240	320
225	M24	12	150	115	610	420	550
250	M24	12	150	115	610	420	550
300	M24	16	150	115	610	420	550
375	M27	16	170	150	900	610	810
450	M30	20	190	180	1190	810	1080
500	M30	24	190	180	1190	810	1080
600	M33	24	210	230	1670	1140	1520
750	M33	28	210	230	1670	1140	1520
900	M36	32	230	270	2140	1460	1950

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