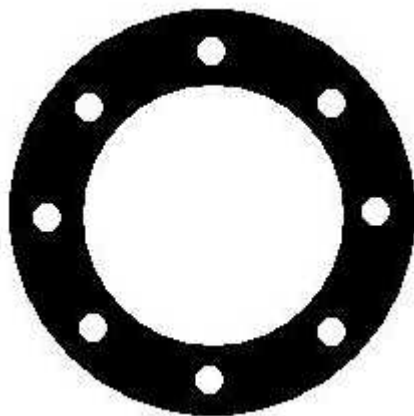




**THE
BOLTHOLDER LTD**

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Gasket Product Information



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GASKETS FACT SHEET

COMMON DEFINITION: A gasket is a material that will seal two faces to stop leaks.

The material can be numerous as long as it will handle the temperature, pressure and the product that will flow through the joint.

TYPES OF MATERIALS

- * INSERTION RUBBER
- NEOPRENE RUBBER
- NITRILE OR BUNA N RUBBER
- * CORK
- * OIL PAPER
- * NON ASBESTOS
- JOINTING GRAPHITE SHEET PTFE

(* are the most common).

COMMON USES

WATER: In most cases for water applications, insertion rubber will handle the application and has done so for years.

STEAM/LIGHT OIL: You have to use non asbestos Permanite SF 2400.

CHEMICALS/HEAVY OIL: Look at Permanite SF3300 or SF 5000 but check chemical resistance chart!

PUMP CASINGS/TRANSFORMER GASKETS OR WASHERS: These are special with no standard gasket designed for them and the customer will order these as a size. For example: 50 OD X 25 ID X 3mm thick.

GASKETS FOR PIPE FLANGES

Gaskets for pipe flanges are referred to as nominal bore and will state a table. There are three types of tables that you will come across –

BRITISH TABLE (BS10): These are Table D or Table E.

AMERICAN STANDARD (ASA).

BRITISH METRIC (BS4505/16).

The Table D and Table E gaskets will always be full face as will the BS4505 gaskets but the ASA can be either full face or ring gaskets.

TYPES OF GASKETS PART 1

INSERTION RUBBER: Two layers of natural rubber with a cotton reinforcing between the layers.

USAGE: Joining two pipes together which water runs through.

THICKNESS: Normally 3mm which is the common thickness of gaskets.

FLEXITALLIC PERMANITE SF 2400: A Nitrile rubber base, asbestos-free, sheet sealing material reinforced with synthetic fibres.

USAGE: For steam, water, gases, oils, mild acids and alkalis.

MAX TEMPERATURE: 350°C.

MAX PRESSURE: 10mpa. **SHEET SIZE:** 1.5m x 1.5m.

FLEXOID OIL JOINTING: A cellulose-based material. It has a great oil and fuel resistance. **THICKNESS:** 0.15, 0.25, 0.5, 0.8, 1.6mm. **WIDTH:** 1000mm.

TYPES OF GASKETS PART 2

CORK GASKETS: There are two relevant types of cork gasket materials – one for general use and the other for use in power transformers.

Power transformers are filled with a strong oil that can effect the nitrile rubber that binds the cork together but there is cork gasketing that has the nitrile binder reduced and is therefore not effected by the temperature or the oil.

TYPES: **NL 62** is the high-cork content material bonded by Nitrile. **MAX TEMP:** 120°C

THICKNESS: Normally 3.2 but available in 0.8, 1.6, 2.4, 3.2 and 6.4.

NP 50: is the high cork content bonded material for transformers or electrical switch gear or hydraulic equipment.

MAX TEMP: 120°C. Thickness as above.

VALVE PACKING, VALVE CONES AND FIRE HYDRANT CUPS

VALVE PACKING:

This is used by district councils in their water departments. It is most commonly used on water valves to stop the water leaking from the valve stem and the most common size is 8mm square and 10mm square. They use a glass-packing impregnated with PTFE (Flexitallic 713L).

VALVE CONES:

There are two rubber valve cones which will fit the 100mm, 32mm shaft and the 150mm 34mm shaft sluice valves. These are the main water supply lines that supply water around towns. They are easy to fit.

FITTING INSTRUCTIONS: Remove the gland plate and extract the valve packing and slide the valve cone over the shaft, reverse the gland plate as the normal plates have a step in them which would require longer bolts and then tighten as normal for valve packing. These are very cost-effective and used by numerous district councils in NZ.

HYDRANT CUPS: The fire hydrant cup is the sealing head that shuts off the water flow. Fire hydrants come under a lot of pressure. The valves are shut as tight as a person can and this has the effect on the cup that can cause the seal to cut it and caused leakage. The cup is manufactured from high-grade polypropylene that has a resistance to the crush but maintains its flexibility. These can also come with two gaskets – 1/ A flange gaskets that bolts to the pipeline and is made out of 3mm thick insertion rubber and 2/ A Body gasket which is a ring gasket size 152 x 122 which seals the body to the base and is made from Flexoid Oil Jointing 1.5mm thick.

COMMON QUESTIONS TO ASK

1/ WHAT IS THE APPLICATION YOU ARE USING THE GASKET IN?

2/ WHAT IS THE TEMPERATURE THE GASKET WILL BE USED IN?

3/ WHAT IS THE MATERIAL THAT THE GASKET WILL COME IN CONTACT WITH? EG: WATER, OIL, STEAM, ACIDS ETC.

4/ WHAT IS THE PRESSURE EXERTED IN THE APPLICATION?

Remember gasket tables are available with information such as – diameter of flange, bolt circle diameter, number of bolts, diameter of bolts, diameter of holes, diameter of the raised face, height of the raised face and thickness of the flange.

These go from 15mm nominal bore right through to 600mm nominal bore.

They are also available for Table D, Table E, Table F, Table H, Table J and BS 4504 gaskets.

Round Gasket dies (Washers)

SIZES ABLE TO MAKE

25 x 13

31.5 x 17

34 x 24 (2x)

37 x 20

38 x 26

39 x 29

39.5 x 26

40 x 25

42 x 29

45 x 10

47 x 22

47 x 28

48 x 38

49 x 38

50 x 12

50 x 22

50 x 36

54 x 38 x 26

55 x 44

57 x 35

57 x 43

58 x 38

59 x 33

62 x 51.5

63 x 42

65 x 51

67 x 49

70 x 49

75 x 61

76 x 63

80 x 45

80 x 59

80 x 63

82 x 52

84 x 52

87 x 60

87 x 73

100 x 54

101 x 54

SIZES ABLE TO MAKE

101 x 83

109 x 95

120 x 68

120 x 106 (2x)

124 x 86

129 x 49

133 x 84

153 x 139

153 x 147

148 x 122 x 106

149 x 129

150 x 122 HYDRANT BODY 1.5mm
FLEXOID

153 x 141

153 x 147

160 x 115

170 x 100

177 x 153

190 x 174

192 x 176

200 x 170

203 x 180

220 x 153

229 x 216

232 x 216

255 x 239

274 x 203

275 x 259

286 x 266

335 x 253

351 x 331

407 x 320

408 x 370

431 x 411

445 x 350

467 x 447

475 x 390

514 x 400

747 x 727

Sizes are listed in millimetres - Outside Diameter x Inside Diameter

Round Gasket Tables and Standards

SIZES ABLE TO MAKE

SIZES ABLE TO MAKE

<u>TABLE D</u>	<u>TABLE E</u>
25 NB	20 NB
32 NB	25 NB
40 NB	32 NB
50 NB	40 NB
65 NB	50 NB
80 NB	65 NB
100 NB	80 NB
125 NB	100 NB
150 NB	125 NB
200 NB	150 NB
225 NB	200 NB
250 NB	250 NB
300 NB	300 NB
<u>ANA 150</u>	<u>BS 4504</u>
25 NB	40 NB
40 NB	50 NB
50 NB	65 NB
65 NB	80 NB
80 NB	100 NB
100 NB	150 NB
150 NB	200 NB
200 NB	250 NB

GASKET MATERIALS

- * Insertion Rubber (Water) 3mm & 6mm thick
- * Nitrile Oil Resistance 3mm thick
- * Flexoid 0.7mm & 1.4mm thick
- * SF2400 Green Temperature 400°C 1.5mm thick
- * Durlon High Temperatures 427°C 1.0mm & 1.5mm thick
- * Cork NL62 General usage 1.0mm & 2.0mm thick
- * Cork NLP50 Transformers 3.0mm thick
- * Food grade Rubber White 3.0mm thick

Gasket Product List and Information

Code	Description	Table D		Table D		Table E		Table E	
		Bolt Diam.	Hole Diam.	Bolt Qty	Bolt Diam.	Bolt Diam.	Hole Diam.	Bolt Qty	Bolt Qty
90011000	15 MMx3MM RUBBER GASKET	M12	14.3	4		M12	14.3	4	
90012000	20 MMx3MM RUBBER GASKET	M12	14.3	4		M12	14.3	4	
90013000	25 MMx3MM RUBBER GASKET	M12	14.3	4		M12	14.3	4	
90014000	32 MMx3MM RUBBER GASKET	M12	14.3	4		M12	14.3	4	
90015000	40 MMx3MM RUBBER GASKET	M12	14.3	4		M12	14.3	4	
90016000	50 MMx3MM RUBBER GASKET	M16	19.1	4		M16	19.1	4	
90017000	65 MMx3MM RUBBER GASKET	M16	19.1	4		M16	19.1	4	
90018000	80 MMx3MM RUBBER GASKET TBL D/E (4)	M16	19.1	4		M16	19.1	4	
90019000	100MMx3MM RUBBER GASKET TBL D(4)	M16	19.1	4		n/a	n/a	n/a	
90020000	100MMx3MM RUBBER GASKET TBL E (8)	n/a	n/a	n/a		M16	19.1	8	
90021000	125MMx3MM RUBBER GASKET TBL D/E (8)	M16	17.0	8		M16	17.0	8	
90022000	150MMx3MM RUBBER GASKET TBL D/E (8)	M16	19.1	8		M20	22.2	8	
90023000	200MMx3MM RUBBER GASKET TBL D/E (8)	M16	19.1	8		M20	22.2	8	
90024000	225MMx3MM RUBBER GASKET TBL D (8)	M16	19.1	8		n/a	n/a	n/a	
90026000	250MMx3MM RUBBER GASKET TBL D (8)	M20	22.2	8		n/a	n/a	n/a	
90027000	250MMx3MM RUBBER GASKET TBL E (12)	n/a	n/a	n/a		M20	22.2	12	
90028000	300MMx3MM RUBBER GASKET TBL D/E (12)	M20	22.2	12		M24	25.4	12	
90029000	350MMx3MM RUBBER GASKET TBL D/E (12)	M24	25.4	12		M24	25.4	12	
90030000	400MMx3MM RUBBER GASKET TBL D/E (12)	M24	25.4	12		M24	25.4	12	
90031000	450MMx3MM RUBBER GASKET TBL D (12)	M24	25.4	12		n/a	n/a	n/a	
90032000	450MMx3MM RUBBER GASKET TBL E (16)	n/a	n/a	n/a		M24	25.4	16	
90034000	500MMx3MM RUBBER GASKET TBL D/E (16)	M24	25.4	16		M24	25.4	16	
90035000	600MMx3MM RUBBER GASKET TBL D/E (16)	M24	28.6	16		M30	31.8	16	
90036000	HYDRANT (4)	M16		4					
90037000	HYDRANT CUP WASHER (PURPLE)								
90037500	152x122x1.5 FLEXOID BODY WASHER								
90038000	100MM SLUCE VALVE CONE (32MM)								
90039000	150MM SLUCE VALVE CONE (34MM)								

If Bolts and Nuts are required, please order these separately to the Gaskets.