ENGINEERING SPECIFICATIONS
TEXAS OPERATIONS

Ⓖ 48-850
4- 9-86

GASKETS AND LINED PIPE SPACERS

ITEM NO	DESCRIPTION
G-1	STD FLAT RING GASKET, 1/16 INCH THICK ASBESTOS, GOODYEARITE STYLE 104 OR NICOLET 295. (NOTE- MINUS 200 TO +750F.)
G-2	STD FLAT RING GASKET, 1/16 INCH THICK BLACK RUBBER, GARLOCK 353, JOHNS-MANVILLE JM-114C, STERLING 4010, OR HERCULES 504. (NOTE- MINUS 40 TO 300F.)
G-2A	STD FLAT RING GASKET, 1/8 INCH THICK BLACK RUBBER, GARLOCK 353, JOHNS-MANVILLE JM-114C, STERLING 4010, OR HERCULES 504. (NOTE- MINUS 40 TO 300F.)
G-2AF	FULL FACE GASKET, 1/8 INCH THICK BLACK RUBBER, GARLOCK 353, JOHNS-MANVILLE JM-114C, STERLING 4010, OR HERCULES 504. (NOTE- MINUS 40 TO 300F.)
G-3	STD FLAT RING GASKET, 1/16 INCH THICK CLOTH REINFORCED BLACK RUBBER, GOODRICH 60, STERLING 4200 OR HERCULES 509. (NOTE- MINUS 40 TO +350F.)
G-4	STD FLAT RING GASKET, 1/16 INCH THICK ASBESTOS, GARLOCK 900. (NOTE- MINUS 200 TO +700F.)
G-4A	STD FLAT RING GASKET, 1/8 INCH THICK ASBESTOS, GARLOCK 900. (NOTE- MINUS 200 TO +700F.)
G-4B	FULL FACE GASKET, 1/8 INCH THICK ASBESTOS, GARLOCK 900. (NOTE- MINUS 200 TO 700F.)
G-5	CORRUGATED GASKET, 1/32 INCH THICK MONEL, PARKER P-900 OR STERLING C. (NOTE- MINUS 325 TO +1500F.)
G-5A	CORRUGATED GASKET, 1/32 INCH THICK TYPE 347 STAINLESS STEEL, PARKER P-900 OR STERLING C. (NOTE- FOR HIGH TEMP SERVICE TO 1600F.)
G-6	CORRUGATED GASKET, 1/32 INCH THICK SOFT IRON, PARKER P-900 STERLING C. (NOTE- MINUS 50 TO +1000F.)
G-7	STD FLAT RING RED RUBBER GASKET, 1/16 INCH THICK, JOHNS-MANVILLE JM-107, GARLOCK 22, OR GOODRICH SBR-75. (NOTE- MINUS 40 TO +180F.)
G-7A	STD FLAT RING RED RUBBER GASKET, 1/8 INCH THICK, JOHNS-MANVILLE JM-107, GARLOCK 22, OR GOODRICH SBR-75. (NOTE- MINUS 40 TO +180F.)

PLAINTIFF'S EXHIBIT

DOW-2477

GASKETS AND LINED PIPE SPACERS

ITEM NO	DESCRIPTION
G-7AF	FULL FACE RED RUBBER GASKET, 1/16 INCH THICK, JOHNS-MANVILLE JM-107, GARLOCK 22, OR GOODRICH SBR-75. (NOTE- MINUS 40 TO +180F.)
G-7F	FULL FACE RED RUBBER GASKET, 1/8 INCH THICK, JOHNS-MANVILLE JM-107, GARLOCK 22, OR GOODRICH SBR-75. (NOTE- MINUS 40 TO +180F.)
G-7AR	FULL FACE 1/8 INCH THICK RED RUBBER GASKET, ID OF GASKET TO BE EQUAL TO ID OF RUBBER-LINED PIPE, JOHNS-MANVILLE JM-107, GARLOCK 22 OR GOODRICH SBR-75. (NOTE- MINUS 40 TO 180F.)
G-7AS	STD FLAT RING 1/8 INCH THK RED RUBBER GASKET, ID OF GASKET EQUAL TO ID OF PLASTIC-LINED PIPE, JOHNS-MANVILLE JM-107, GARLOCK 22 OR GOODRICH SBR-75. (NOTE- MINUS 40 TO 180F.)
G-8	CORRUGATED STEEL JACKETED ASBESTOS GASKET, PARKER P-926, STERLING DC. (NOTE- MINUS 50 TO +900F.)
G-9	STD FLAT RING GASKET, 1/16 INCH THICK ASBESTOS WITH SILICON RELEASING AGENT, JOHNS-MANVILLE JM-60, GARLOCK 7021 OR NICOLET 225 OR 245. (NOTE- MINUS 200 TO +700F.)
G-9A	STD FLAT RING GASKET, 1/8 INCH THICK ASBESTOS WITH SILICON RELEASING AGENT, JOHNS-MANVILLE JM-60, GARLOCK 7021 OR NICOLET 225 OR 245. (NOTE- MINUS 200 TO +700F.)
G-9B	FULL FACE GASKET, 1/8 INCH THICK ASBESTOS WITH SILICON RELEASING AGENT, JOHNS-MANVILLE JM-60, GARLOCK 7021 OR NICOLET 225 OR 245. (NOTE- MINUS 200 TO +700F.)
G-10	SOLID SOFT IRON RING JOINT GASKET FOR 600-LB RTJ FLANGE, ANSI B16.5, BRINELL HARDNESS 80-90. (NOTE- MINUS 20 TO +750F.)
G-11	SOLID SOFT IRON RING JOINT GASKET FOR 900-LB RTJ FLANGE, ANSI B16.5, BRINELL HARDNESS 80-90. (NOTE- MINUS 20 TO +750F.)
G-12	SOLID SOFT IRON RING JOINT GASKET FOR 1500-LB RTJ FLANGE, ANSI B16.5, BRINELL HARDNESS 80-90. (NOTE- MINUS 20 TO +750F.)
G-13	SOLID SOFT IRON RING JOINT GASKET FOR 300-LB RTJ FLANGE, ANSI B16.5, BRINELL HARDNESS 80-90. (NOTE- MINUS 20 TO +750F.)
G-14	KOROSEAL, GOODRICH 116 OR STERLING 9900 SHEET GASKET, 1/8 INCH THICK. (NOTE- MINUS 20 TO +150F.)

GASKETS AND LINED PIPE SPACERS

ITEM NO	DESCRIPTION
G-15	SPIRAL-WOUND, NICKEL-ASBESTOS GASKET, PARKER P-912 OR STERLING WL. (NOTE- MINUS 325 TO +900F.)
G-15A	SPIRAL-WOUND, NICKEL-TEFLON GASKET, PARKER P-912 OR STERLING WL. (NOTE- MINUS 325 TO +450F.)
G-15B	SPIRAL-WOUND, NICKEL WITH TEFLON IMPREGNATED BLUE ASBESTOS FILLER, PARKER P-912 OR STERLING WL. (NOTE- MINUS 325 TO +500F.)
G-16	SPIRAL-WOUND, STAINLESS STEEL-ASBESTOS GASKET, PARKER P-912, STERLING WL. (NOTE- MINUS 425 TO +900F.)
G-16A	SPIRAL-WOUND, STAINLESS STEEL-TEFLON GASKET, PARKER P-912, STERLING WL. (NOTE- MINUS 425 TO +900F.)
G-17	4000-LB LENS RING IN ACCORD WITH TEXAS DIVISION STD 43-527. (NOTE- SIZES 1/2 THRU 4, MINUS 20 TO +900F.)
G-17A	4000-LB LENS RING IN ACCORD WITH DOW ENGINERING STANDARD 43-527 (NOTE- SIZES 1/2 THRU 4, MINUS 20 TO +900F.)
G-17AB	5200-LB BLIND LENS RING IN ACCORD WITH DOW ENGINEERING SPECIFICATION 43-533. (NOTE- SIZES 1/2 THRU 6, MINUS 20 TO +900F.)
G-17B	5200-LB BLIND LENS RING IN ACCORD WITH TEXAS DIVISION STD 43-533. (NOTE- SIZES 1/2 THRU 6, MINUS 20 TO +900F.)
G-17C	5200-LB LENS RING IN ACCORD WITH TEXAS DIVISION STD 43-530. (NOTE- SIZES 1/2 THRU 6, MINUS 20 TO +900F.)
G-18	STD FLAT RING GASKET, 1/8 INCH THICK ETHYLENE PROPYLENE RUBBER, PLASTIC LINED PIPE DEPARTMENT, DOW CHEMICAL COMPANY, FOR USE WITH DOW PLASTIC LINED STEEL PIPE. (NOTE- MINUS 60 TO +250F.)
G-18A	STD FLAT RING GASKET, 1/8 INCH THICK VITON, PLASTIC LINED PIPE DEPARTMENT, DOW CHEMICAL COMPANY, FOR USE WITH DOW PLASTIC LINED STEEL PIPE. (NOTE- MINUS 50 TO + 250F.)
G-19	ETHYLENE PROPYLENE RUBBER HALF GASKET, PLASTIC LINED PIPE DEPARTMENT, DOW CHEMICAL COMPANY, FOR USE WITH DOW PLASTIC LINED STEEL PIPE. (NOTE- MINUS 60 TO +250F.)

GASKETS AND LINED PIPE SPACERS

ITEM NO	DESCRIPTION
G-19A	VITON HALF GASKET, PLASTIC LINED PIPE DEPARTMENT, DOW CHEMICAL COMPANY, FOR USE WITH DOW PLASTIC LINED STEEL PIPE. (NOTE- MINUS 50 TO +250F.)
G-19B	HYPALON HALF GASKET, PLASTIC LINED PIPE DEPARTMENT, DOW CHEMICAL COMPANY, FOR USE WITH DOW PLASTIC LINED STEEL PIPE. (NOTE- MINUS 30 TO +250F.)
G-20	SOLID TYPE 304 STAINLESS STEEL RING JOINT GASKET FOR RTJ FLANGE, ANSI B16.5, BRINELL HARDNESS 160, 0.04 TO 0.08 PER CENT CARBON. (NOTE- MINUS 425 TO +1500F.)
G-21	SOLID TYPE 316 STAINLESS STEEL RING JOINT GASKET FOR RTJ FLANGE, ANSI B16.5, BRINELL HARDNESS 160, 0.04 TO 0.08 PER CENT CARBON. (NOTE- MINUS 325 TO +1500F.)
G-24	SPIRAL-WOUND, 316 STAINLESS STEEL-ASBESTOS GASKET, FLEXITALLIC CG, GARLOCK CR, LAMONS WR, PARKER P-913 OR STERLING GR. (NOTE- MINUS 325 TO +1100F.)
G-24A	SPIRAL-WOUND, 316 STAINLESS STEEL-TEFLON GASKET, FLEXITALLIC CG, GARLOCK CR, LAMONS WR, PARKER P-913 OR STERLING GR. (NOTE- MINUS 50 TO +450F.)
G-25	LEAD RING GASKET FOR ANSI B16.5, SMALL TONGUE AND GROOVE FLANGE, STERLING PM OR AMERAFLEX LEAD. (NOTE- MINUS 200 TO +200F.)
G-26	STD FLAT RING GASKET 1/16 INCH THICK NEOPRENE, GARLOCK 7986, STERLING 4050 OR HERCULES 517. (NOTE- MINUS 50 TO +250F.)
G-26A	STD FLAT RING GASKET 1/8 INCH THICK NEOPRENE, GARLOCK 7986, STERLING 4050 OR HERCULES 517. (NOTE- MINUS 50 TO +250F.)
G-26AF	FULL FACE GASKET, 1/8 INCH THICK NEOPRENE, GARLOCK 7986, STERLING 4050 OR HERCULES 517. (NOTE- MINUS 50 TO +250F.)
G-27	SOLID SOFT IRON RING JOINT GASKET FOR 2500-LB RTJ FLANGE, ANSI B16.5, BRINELL HARDNESS 80-90. (NOTE- MINUS 20 TO +750F.)
G-28	TEFLON ENVELOPE STYLE GASKET, 3/16 INCH THICK FILLER, JOHNS-MANVILLE JM-933-C-8360, GARLOCK 8764, OR STERLING 885-V. (NOTE- MINUS 325 TO +450F.)
G-28R	TEFLON ENVELOPE STYLE GASKET, 1/8 INCH NEOPRENE FILLED, PEABODY DCRE E-26 OR STERLING 885-V/4050. (NOTE- MINUS 50 TO +200F.)

GASKETS AND LINED PIPE SPACERS

ITEM NO	DESCRIPTION
G-29	STD FLAT RING GASKET, 1/16 INCH THICK VITON RUBBER, GARLOCK 9663, STERLING 770 OR AMERAFLEX 1444. (NOTE- MINUS 50 TO +400F.)
G-29A	STD FLAT RING GASKET, 1/8 INCH THICK VITON RUBBER, GARLOCK 9663, STERLING 770 OR AMERAFLEX 1444. (NOTE- MINUS 50 TO +400F.)
G-30	TEFLON HALF GASKET, PLASTIC LINED PIPE DEPARTMENT, DOW CHEMICAL COMPANY, FOR USE WITH DOW PLASTIC LINED STEEL PIPE. (NOTE- MINUS 20 TO +250F.)
G-31	SOLID SOFT ANNEALED INCONEL RING JOINT GASKET FOR RTJ FLANGE, ANSI B16.5. (NOTE- MINUS 325 TO +1200F.)
G-33	SOLID SOFT ANNEALED NICKEL RING JOINT GASKET FOR RTJ FLANGE, ANSI B16.5. (NOTE- MINUS 325 TO +600F.)
G-33L	SOLID SOFT ANNEALED LOW CARBON NICKEL RING JOINT GASKET FOR RTJ FLANGE, ANSI B16.5. (NOTE- MINUS 325 TO +1200F.)
G-34	SPIRAL-WOUND, MONEL-ASBESTOS GASKET, FLEXITALLIC CG, GARLOCK CR, LAMONS WR, PARKER P-913 CR STERLING GR. (NOTE- MINUS 325 TO +800F.)
G-34A	SPIRAL-WOUND, MONEL-TEFLON GASKET, FLEXITALLIC CG, GARLOCK CR, LAMONS WR, PARKER P-913 OR STERLING GR. (NOTE- MINUS 325 TO +450F.)
G-35	SPIRAL-WOUND, NICKEL-ASBESTOS GASKET, FLEXITALLIC CG, GARLOCK CR, LAMONS WR, PARKER P-913 CR STERLING GR. (NOTE- MINUS 325 TO +900F.)
G-35A	SPIRAL-WOUND, NICKEL-TEFLON GASKET, FLEXITALLIC CG, GARLOCK CR, LAMONS WR, PARKER P-913 CR STERLING GR. (NOTE- MINUS 325 TO +450F.)
G-36	STD FLAT RING GASKET, 1/16 INCH THICK WHITE ASBESTOS, JOHNS-MANVILLE JM-61 OR NICOLET 226. (NOTE- MINUS 200 TO +700F.)
G-36A	STD FLAT RING GASKET, 1/8 INCH THICK WHITE ASBESTOS, JOHNS-MANVILLE JM-61 OR NICOLET 226. (NOTE- MINUS 200 TO +700F.)
G-37	SPIRAL-WOUND, INCONEL-CERAMIC (FIBERFRAX) GASKET, LAMONS WR. (NOTE- FOR HIGH TEMP SERVICE TO +2000F.)

GASKETS AND LINED PIPE SPACERS

ITEM NO	DESCRIPTION
G-38	STANDARD FLAT RING GASKET, 0.015 INCH THICK GRAFOIL GTA, UNION CARBIDE CORP. (NOTE- MINUS 200 TO +700F.)
G-39	STD FLAT RING GASKET, 1/16 INCH THICK GYLON, GARLOCK 37719. (NOTE- MINUS 200 TO +500F, SIZES 3/4 THRU 16.)
G-39A	STD FLAT RING GASKET, 1/8 INCH THICK GYLON, GARLOCK 37719. (NOTE- MINUS 200 TO +500F, SIZES 3/4 THRU 16.)
G-40	SPIRAL-WOUND, 304 STAINLESS STEEL-ASBESTOS GASKET, FLEXITALLIC CG, GARLOCK CR, LAMONS WR, PARKER P-913 OR STERLING GR. (NOTE- MINUS 425 TO +1100F.)
G-40A	SPIRAL-WOUND, 304 STAINLESS STEEL TEFLON GASKET, FLEXITALLIC CG, GARLOCK CR, LAMONS WR, PARKER P-913 OR STERLING GR. (NOTE- MINUS 425 TO +450F.)
G-40AC	SPIRAL-WOUND, 304 STAINLESS STEEL TEFLON GASKET WITH STAINLESS STEEL GAGE RING, FLEXITALLIC CG, GARLOCK CR, LAMONS WR, PARKER P-913 OR STERLING GR. (NOTE- MINUS 425 TO +450F.)
G-40C	SPIRAL-WOUND, 304 STAINLESS STEEL-ASBESTOS GASKET WITH STAINLESS STEEL GAGE RING, FLEXITALLIC CG, GARLOCK CR, LAMONS WR, PARKER P-913 OR STERLING GR. (NOTE- MINUS 425 TO +1100F.)
G-41	STANDARD FLAT RING GASKET 1/16 INCH THICK NEOPRENE-ASBESTOS, GARLOCK 7226, JOHNS-MANVILLE JM-76 OR NICOLET 355. (NOTE- FOR FREON SERVICE, MINUS 150 TO +300F.)
G-41A	STANDARD FLAT RING GASKET 1/8 INCH THICK NEOPRENE-ASBESTOS, GARLOCK 7226, JOHNS-MANVILLE JM-76 OR NICOLET 355. (NOTE- FOR FREON SERVICE, MINUS 150 TO +300F.)
G-42	FULL FACE GASKET, 1/8 INCH THICK ETHYLENE PROPYLENE RUBBER. (NOTE- MINUS 60 TO +250F.)
G-43	FULL FACE GASKET, 1/8 INCH THICK VITON RUBBER, LITHARGIC CURED, 60 DUROMETER OR LESS HARDNESS, MCSITES 1035 CURED.
G-44	SPIRAL-WOUND 304 STAINLESS STEEL-ASBESTOS GASKET WITH STAINLESS STEEL INNER AND OUTER COMPRESSION-GAUGE RINGS, ID SAME AS SCH 5S PIPE, FLEXITALLIC CGI, GARLOCK CRI, LAMONS WRI, PARKER P-913-IR OR STERLING GR-IR.

GASKETS AND LINED PIPE SPACERS

ITEM NO	DESCRIPTION
G-44A	SPIRAL-WOUND 304 STAINLESS STEEL-TEFLON GASKET WITH STAINLESS STEEL INNER AND OUTER COMPRESSION-GAUGE RINGS, ID SAME AS SCH 5S PIPE, FLEXITALLIC CGI, GARLOCK CRI, LAMONS WRI, PARKER P-913-IR OR STERLING GR-IR.
G-45	STD FLAT RING GASKET, 1/16 INCH THICK TEFLON (TFE), GARLOCK OR RESISTOFLEX. (NOTE- MINUS 50 TO +500F.)
G-45A	STD FLAT RING GASKET, 1/8 INCH THICK TEFLON (TFE), GARLOCK OR RESISTOFLEX. (NOTE- MINUS 50 TO +500F.)
G-46	SPIRAL-WOUND, INCONEL-GRAFOIL GASKET, FLEXITALLIC CG, OR LAMONS WR. (NOTE- FOR HIGH TEMP SERVICE TO +2000F.)
G-47	NEOPRENE GASKET AS FURNISHED BY VENDOR FOR CONCRETE CYLINDER PIPE.
G-48	STD FLAT RING GASKET, 1/16 INCH THICK BLUE-GARD COMPRESSED NON-ASBESTOS, GARLOCK STYLE 3000. (NOTE - MINUS 20 TO 600 F SIZES 3/4 THRU 54.)
G-49	STD. FLAT RING GASKET, 1/8 INCH THICK BLUE-GARD COMPRESSED NON-ASBESTOS, GARLOCK STYLE 3000. (NOTE - MINUS 20 TO 600F, SIZES 3/4 THRU 54.)
G-SPACERS	FOLLOWING ARE SPACERS TO BE UTILIZED WITH DOW PLASTIC-LINED PIPING SYSTEMS. USE N-223 FOR SARAN® RESIN SPACERS.
G-151	1/2" THK RING SPACER, SARAN® RESIN, DOW FIG. 230.
G-152	1/2" THK POLYPROPYLENE RING SPACER, DOW FIG. 230
G-153	1/2" THK KYNAR RING SPACER, DOW FIG. 230
G-154	1/2" THK TEFLON RING SPACER, DOW FIG. 230
G-155	1 1/2" THK BEVELLED RING SPACER, SARAN® RESIN, DOW FIG. 230
G-156	1 1/2" THK POLYPROPYLENE BEVELLED RING SPACER, DOW FIG. 230
G-157	1 1/2" THK KYNAR BEVELLED RING SPACER, DOW FIG. 230
G-158	1 1/2" THK TEFLON BEVELLED RING SPACER, DOW FIG. 230
G-159	1/2" THK BLIND SPACER, SARAN® RESIN, DOW FIG. 232
G-160	1/2" THK POLYPROPYLENE BLIND SPACER, DOW FIG. 232

ENGINEERING SPECIFICATIONS
TEXAS OPERATIONS

GASKETS AND LINED PIPE SPACERS

ITEM NO	DESCRIPTION
G-161	1/2" THK KYNAR BLIND SPACER, DOW FIG. 232
G-162	1/2" THK TEFLON BLIND SPACER, DOW FIG. 232