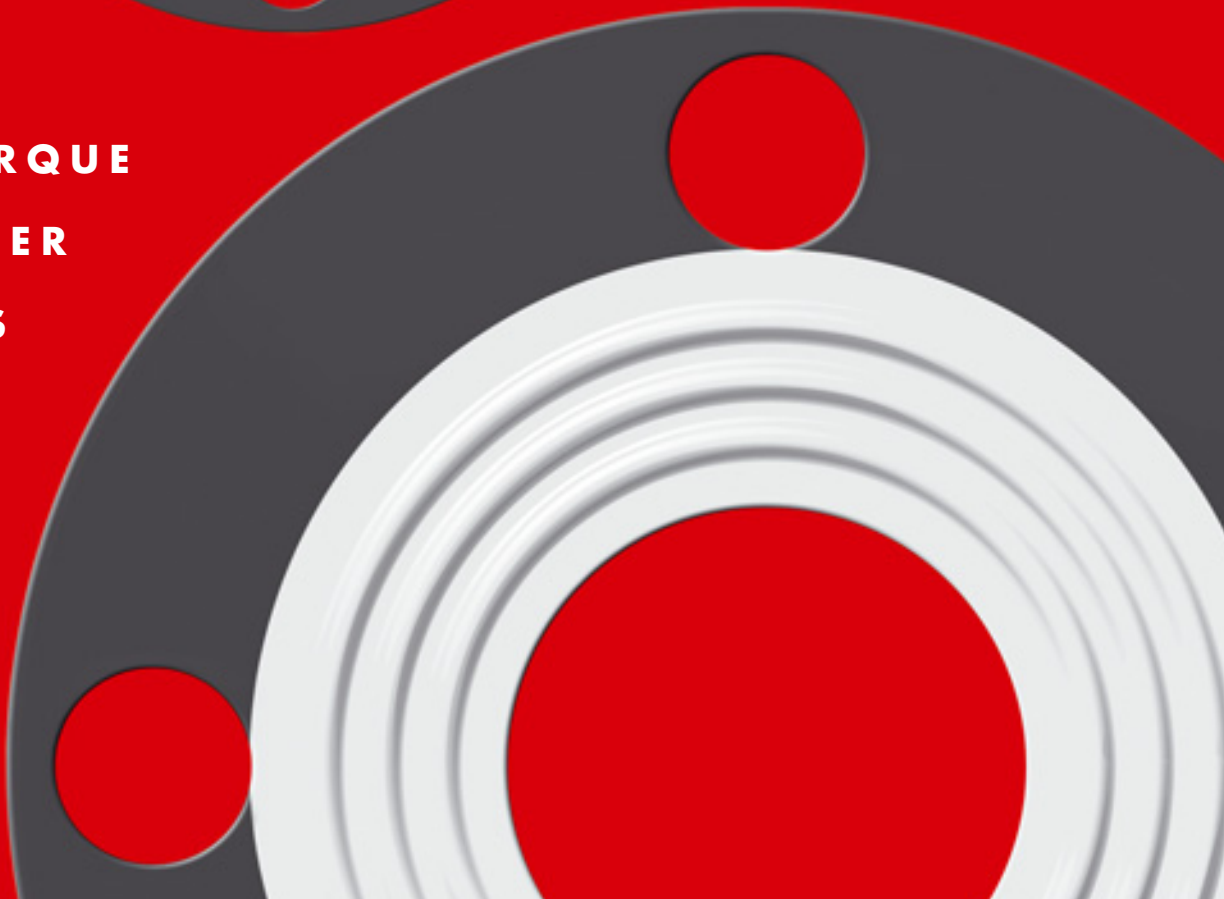


**LOW TORQUE
ENERGIZER
GASKETS**





Our customers demand innovation. That's why, despite having the finest low torque gasket available, we set out to make it even better. The new Energizer utilizes a "no-seam" shield providing the thickest protection on the market. For even more demanding applications we now offer a TFM® shield. Not familiar with the fantastic permeation and compression properties of TFM®? Give us a call and we'll help you choose the best Energizer for your application. For the finest low torque gasket ever created, look no further than CTG.

GENERAL INFORMATION

Designed specifically for FRP and plastic piping systems

Minimal torque required to seal

100% pure virgin TFM or PTFE sealing surface

Totally Bonded Elastomer and TFM or PTFE Construction

65 to 75 Durometer Elastomer

Typical compression set values of 15% or better

Continuous, no "seam," radius style TFM or PTFE envelope

Thickest available TFM or PTFE shield without sacrificing compression set properties

SHIELD CROSS SECTION



Available in Old Standard sizes 1/2" to 24"

Available upon request in New Standard sizes 1/2" to 12"

For temperatures of -40° F (-40° C) to 300° F (149° C)

Totally non-asbestos construction

Conveniently manufactured in Houston, Texas

COMMON INDUSTRIES

Chemical Processing

Mining

Offshore Drilling Rigs

Pulp & Paper

Semiconductor

And many others

COMMON CHEMICAL APPLICATIONS

Acids
Hydrochloric
Sulfuric

Caustics
Sodium Hydroxide
Potassium Hydroxide
Calcium Hydroxide

Water
De-ionized
Potable

Other
Hydrocarbons
Chlorine Services

DIMENSIONS (IN INCHES)

ET	ET	ET	ET	ET	ET	ET	ET	ET
NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT
SIZE	D1	D2	D3	D4	D5	D6	BH	N
1/2*	0.71	0.94	1.14		2.38	3.50	0.62	4
3/4*	0.86	1.30	1.77		2.75	3.88	0.62	4
1	1.16	1.53	2.03		3.125	4.25	0.62	4
1 1/4*	1.25	1.75	2.33		3.50	4.63	0.62	4
1 1/2	1.72	2.13	2.66		3.875	5.00	0.62	4
2	2.16	2.53	3.03	3.53	4.75	6.00	0.75	4
2 1/2*	2.50	3.02	3.76	4.01	5.50	7.00	0.75	4
3	3.15	3.50	4.00	4.50	6.00	7.50	0.75	4
3 1/2*	3.46	3.96	4.57	5.14	7.00	8.50	0.75	8
4	4.06	4.50	5.06	5.63	7.50	9.00	0.75	8
5*	4.97	5.48	6.07	6.67	8.50	10.00	0.88	8
6	6.14	6.63	7.25	7.88	9.50	11.00	0.88	8
8	8.10	8.36	9.25	9.88	11.75	13.50	0.88	8
10	10.13	10.66	11.36	12.06	14.50	16.00	1.00	12
12	12.22	12.91	13.75	14.59	17.00	19.00	1.00	12
14*	13.87	14.64	15.37	16.10	18.75	21.00	1.12	12
16*	15.81	16.46	17.26	18.01	21.25	23.50	1.12	16
18*	17.90	18.67	19.30	19.89	22.75	25.00	1.25	16
20*	19.96	20.89	21.51	22.12	25.00	27.50	1.25	20
24*	23.94	24.80	25.42	25.98	29.50	32.00	1.37	20

MIN.RECOMMENDED SEALING BOLT TORQUE FT/LBS

ET	ET		
NRT	NRT		
SIZE	FT/LBS	SIZE	FT/LBS
1/2	9	1/2	7
3/4	11	3/4	9
1	14	1	10
1 1/4	16	1 1/4	12
1 1/2	19	1 1/2	14
2	32	2	24
2 1/2	43	2 1/2	32
3	48	3	36
3 1/2	31	3 1/2	22
4	32	4	24
5	43	5	30
6	47	6	32
8	69	8	50
10	75	10	56
12	98	12	73

Above values based on 150 PSI.
Above values may change depending on pressure, temp and service.
Additional technical information available upon request.

* Indicates sizes not available with a tab.

ET ELASTOMER & TFM OR PTFE

FEATURES

Increased PTFE thickness for maximum protection

3 Sealing Ribs

Available upon request in New Standard sizes

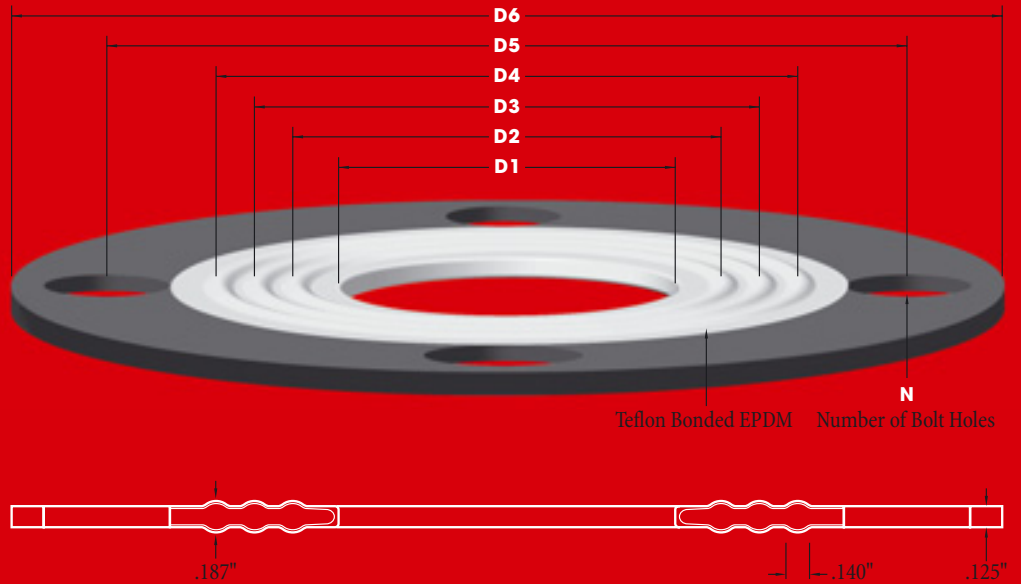
FLANGE TYPES

Contact Molded FRP

Flat faced

No ribs or serrations

Hand Lay up FRP



NRT ELASTOMER & TFM OR PTFE / NO RIBS

FEATURES

No rib design

Won't interfere with raised (serrated) portion of flange

FLANGE TYPES

Cast & Ductile Iron

CPVC, PVC

Fibercast FRP

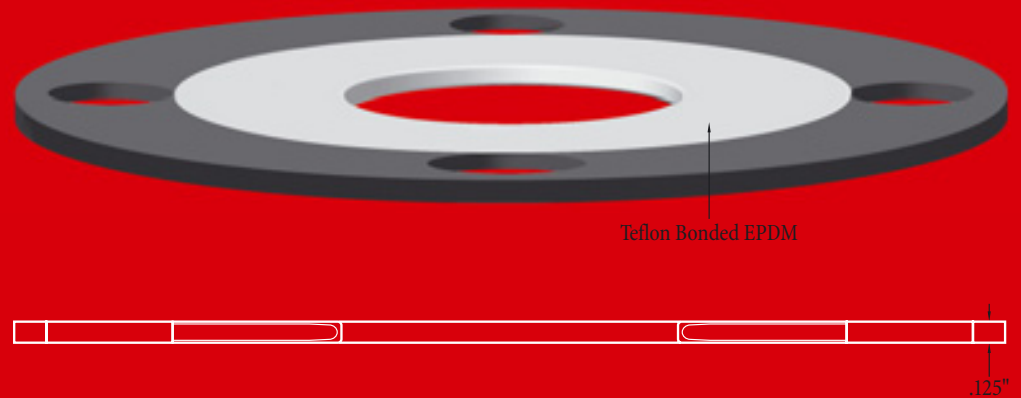
Machine Made FRP

Press Molded FRP

PVDF

Serrated or ribbed

Steel



ER & NRR 100% ELASTOMER VERSIONS OF ABOVE MODELS

Elastomer material options include:

Aflas®

Butyl

EPDM

Nitrile

Viton® A, B, and GF

Viton® Extreme™

Please call for material availability



CTG PRODUCT SHEET

SHEET MATERIAL

Acetate	Cork & Syn. Rubber Adhesive Backed	Hypalon	Polyethylene
Black Rubber Sponge (Open Cell)	Compressed Non-Asbestos	Lead	Red Rubber
Black Rubber Cloth Inserted	EPDM	Leather	Rubber matting
Buna-N 50, 60 and 90 Durometer	Felt	Koroseal	Silicone 50 and 70 Durometer
Buna-N (White) 50-65 Durometer	Fibre-Cork	Neoprene 40 and 60 Durometer	Silicone Sponge
Buna-N Nylon Inserted	Fiberglass Cloth	Neoprene Cloth Inserted	PTFE / PTFE Glass Filled
Butyl	Fiberglass Wire Inserted Tacky Cloth	Neoprene Sponge (Closed Cell)	Viton®
Chipboard	Flexible Graphite	Neoprene Tank Gasket	Vulcanized Fiber-Bone (Red)
Cork	Gum Rubber	Non-Asbestos	Urethane
Cork and Buna-N	GRI/Durlon 8500	Nylon	
Cork and Neoprene	GRI/Durlon 9000	Plant (Vegetable) Fiber	

PLASTICS MACHINING

OEM
From Sample or Drawing
CNC Lathe
CNC Milling
0" - 24" Sizes
Complex Geometries
Tightest Tolerances
Production Runs
Custom Batches
Application Development
V-Rings
O-Rings

PLASTICS

Acetal / Delrin®
CPVC
Kel-F®
Kynar®
MD Nylon
Nylon
PEEK®
Polycarbonate
Polypropylene
PTFE
PTFE-Filled
PVC
Ryton®
TFM®
UHMW
Vespel®

RUBBER MOLDING

Energizer™
O-Rings
Lip Seals
High Purity Applications
Rail Car
Tank Truck
Private Branding
In-House Mold Making
PTFE / Elastomer Bonding
Metal / Elastomer Bonding

ELASTOMER COMPOUNDS

Aflas®
Nitrile
Butyl
EPDM
Hypalon
Neoprene
Silicone
Viton® A, B, and GF
Viton® Extreme™

O-RINGS *(U.S. Std. Sizes)*

Buna-N 70 and 90 Durometer
E.P.R. 70 Durometer
Neoprene 70 Durometer
Silicone 70 Durometer
PTFE
Viton® (Black) 75 and 90
Viton® (Brown) 75 Durometer
Viton Extreme™ 75 and 90

SPECIAL SIZE O-RINGS MADE TO SPECIFICATIONS IN:

Inch sizes
Metric sizes

EXTRUSIONS

EPDM
Neoprene (White)
Neoprene Sponge (Closed Cell)
Silicone (Gray)
Square and Rectangular
Viton®

SPIRALWOUNDS

Standard sizes stocked
through 24" in 304 & 316SS

All materials and sizes
quoted upon Request

MISC

Adhesives
Alpax Tools
Clamps
Couplings for Hose
Gauges
Glass
O-Ring Splice Kits
RTV Silicone
Sealants
Tapes
PTFE Tape



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