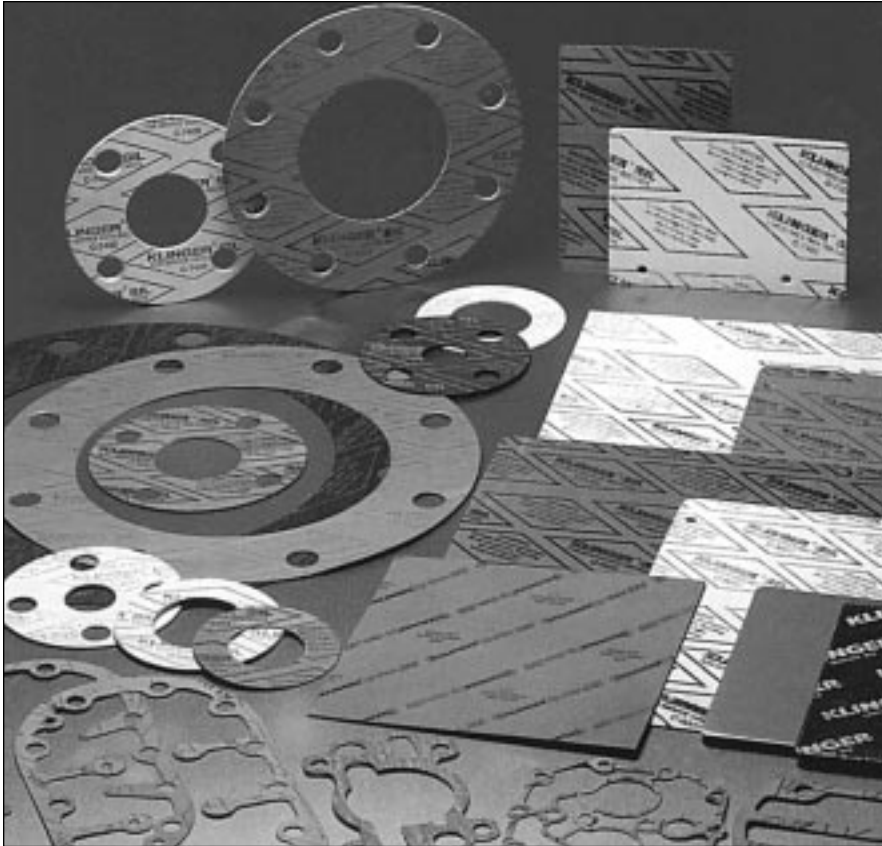


## Compressed Gasket Material



### KLINGER®sil C-4433†

- Fiberglass, Aramid and inorganic fibers.
- **Nitrile binder.**
- Ultimate steam sheet.
- Outstanding load bearing.
- Excellent creep relaxation.
- Best general purpose sheet.
- Exceeds API Fire Test.

### KLINGER®sil C-4401†

- Synthetic fiber.
- **Nitrile binder.**
- Excellent sealability.
- Excellent chemical resistance.
- Good creep relaxation.
- Good general purpose sheet.
- Comparable to Garlock 'Blue Guard'.

### KLINGER®sil C-4300†

- Synthetic fiber.
- **Nitrile binder.**
- Economical.
- Good sealability.
- General purpose sheet.
- Suitable for a wide range of chemical applications.

### KLINGER®sil Expanded Metal Reinforced C-4439†

- Fiberglass, aramid and inorganic fibers.
- **Nitrile binder.**
- High temperature and stress.
- Vibration.
- Galvanized low carbon steel insert.

### KLINGER®sil C-6400

- Synthetic fiber.
- **SBR binder.**
- Good anti-stick properties.
- Good steam sheet.

### KLINGER Flexible Graphite SLS††

- Graphite adhesive bonded to a .002" 316 stainless steel foil.
  - Highly compressible and compactible.
  - Excellent anti-stick properties.
  - Low gas permeability.
  - Low electrical resistance.
- \*available with anti-stick coating.

### KLINGER®sil C-7400†

- Synthetic fiber.
- **EPDM binder.**
- Moderate caustics and acids.
- Good oil swell characteristics.
- Excellent aging properties.
- Good in steam.

### KLINGER®sil C-8200†

- Synthetic fiber.
- **Hypalon binder.**
- Acid resistant.
- Good oil-fuel resistance.
- Good gas sealability.
- No color added.

†Standard Sheet Size: 60" x 60".

### chem-2000 PTFE (Teflon®) Sheet

#### Standard Sheet Dimensions:

**Sheet size:** 51" x 51" ±2"

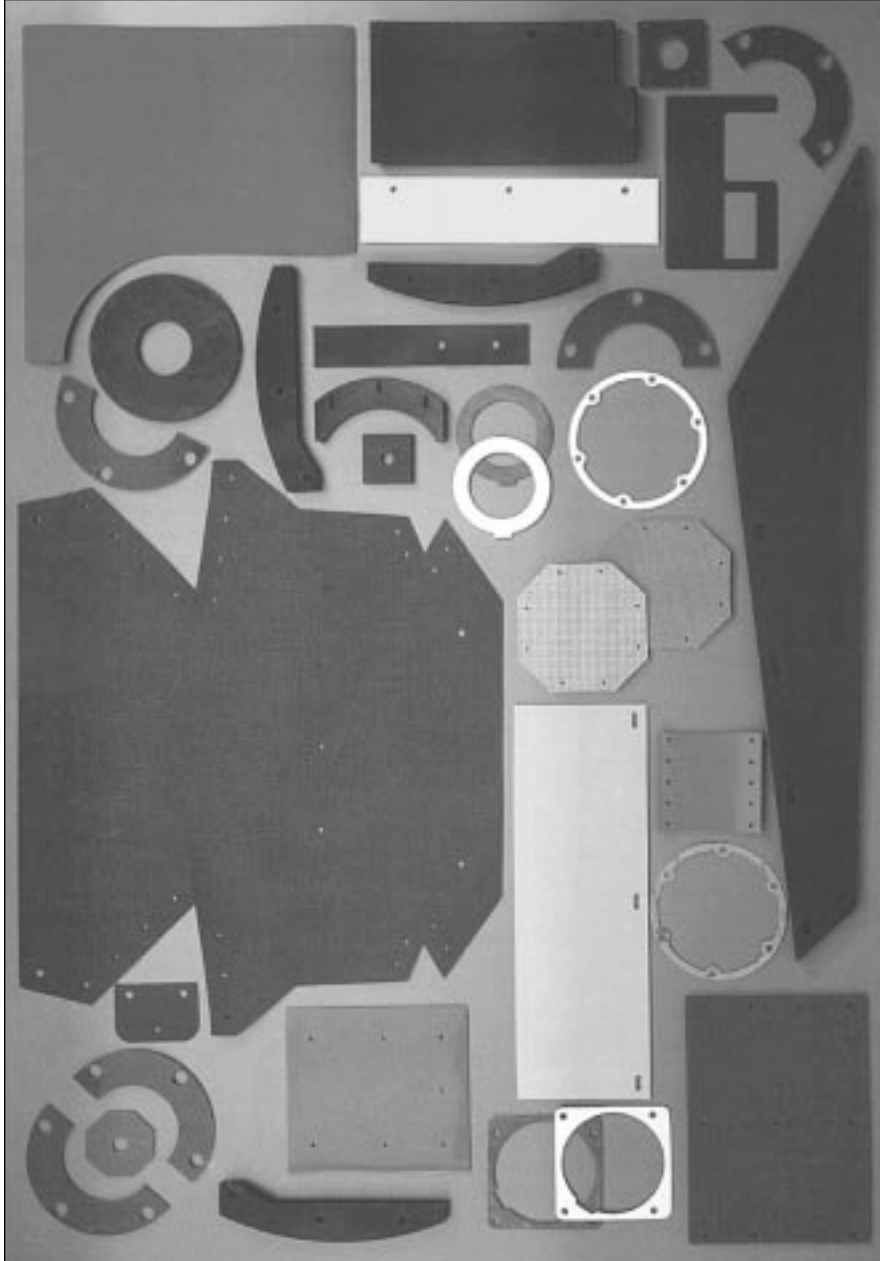
**Thicknesses:** .031", .040", .060", .080", .118" ±10%

#### Thickness Tolerances to ASTM F104

Nominal Thickness		Standard Range of Thickness	
(In.)	(In.)	(In.)	(In.)
1/64	.016	.014	.021
1/32	.031	.026	.036
3/64	.047	.042	.052
1/16	.062	.054	.070
3/32	.094	.086	.102
1/8	.125	.117	.133

## Cut Rubber and Gasket Material Parts for Industrial Applications

Available from belting, rubber sheeting and flat materials. Die rule and water jet cutting, stripping and custom forms.



### Cut Rubber Parts

Belting, Rubber Roll Goods and Stripping

#### Range of Materials:

- **Varieties of industrial conveyor belting:**
  - Rubber both sides
  - Fabric both sides
  - Combinations of rubber and fabric
  - High heat resistance
  - Oil resistant
  - Oil proof
  - Cross-rigid
  - Textured surfaces or with profiles
- **Varieties of food grade lighter duty conveyor belting:**
  - White rubber
  - White Nitrile
  - White PVC
  - RMV blends of vinyl
  - Textured surfaces or with profiles
- **Unsupported (without fabric insertion) rubber sheeting:**
  - Neoprene
  - Nitrile
  - Silicone
  - SBR
  - Natural gum rubber
  - Skirt board rubber
  - “Rhino Hide” and chute lining
  - Crude spongex — open cell structure
  - Closed cell neoprene sponge — sheets and buns
  - Urethane
  - Butyl
  - Vinyl
  - UHMW plates, boards and sheeting
- **Coated fabrics (fabric supported sheet):**
  - Diaphragm materials
  - Cloth inserted (C.I.) sheet
  - Plied cross-rigid belt and sheet
  - Roll-up door fabric and sheet
- **Pressure sensitive adhesive (PSA) backed materials.**
- **Expanded metal back rubber polymers.**



### Summers Rubber Sealing Technical Service

Company Name \_\_\_\_\_

Person to Contact \_\_\_\_\_

Telephone No. \_\_\_\_\_ Fax No. \_\_\_\_\_ E-mail \_\_\_\_\_

If you would like us to advise you on your gasket application, please provide the details requested below and fax the form to: 1-877-941-4673

#### Duty

Medium \_\_\_\_\_

Concentration \_\_\_\_\_

Max. Pressure \_\_\_\_\_

Max. Temperature \_\_\_\_\_

Liquid or Gas \_\_\_\_\_

Any other comments  
(cycling, vibrations, food, hazardous)

\_\_\_\_\_  
\_\_\_\_\_

#### Flanges

Rating \_\_\_\_\_

Nominal Size \_\_\_\_\_

Flange Material \_\_\_\_\_

Surface Finish \_\_\_\_\_

Type \_\_\_\_\_

If non-standard, please give dimensions

\_\_\_\_\_  
\_\_\_\_\_

#### Bolts

Quality \_\_\_\_\_

Diameter/Length \_\_\_\_\_

Number \_\_\_\_\_

#### Gasket Details (*dimensions*)

##### 1. Full Face

Outside Diameter \_\_\_\_\_

Inside Diameter \_\_\_\_\_

Number of Holes \_\_\_\_\_

Hole Diameter \_\_\_\_\_

*or*

##### 2. Ring

Outside Diameter \_\_\_\_\_

Inside Diameter \_\_\_\_\_

*or*

##### 3. Special Design

Please provide drawing.

Current application material and thickness.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

*Reason for material change (i.e. leaks, blow out)*

\_\_\_\_\_  
\_\_\_\_\_

*Photocopy this form for re-use.*

## Reliable Gasketing on a Roll

Sealex®



100% Pure PTFE which has been expanded by a special process to form soft, highly compressible gasketing on a roll. It has the very wide chemical resistance of PTFE and a pressure sensitive adhesive strip to ensure easy installation.

• **Maximum operating conditions:**

Temperature — 500°F.

Pressure 2000 psi.

(Note these figures do not operate at the same time.)

- Unlike conventional PTFE, which is prone to cold flow, Sealex has good creep resistance and bolt torque retention properties.
- Highly compressible — suitable for sealing weak or damaged flanges.
- Wide chemical resistance range — inert to practically all chemicals.
- Available in roll form — no need to maintain large stocks of gaskets.
- Not subject to aging — PTFE is unaffected by normal environmental conditions.
- Suitable for cryogenic use -321°F (-196°C).
- Ideal for use where cleanliness is essential — will not support bacterial growth or contaminate product being sealed.
- Sealing surfaces part freely — saves expensive maintenance downtime.
- FDA compliance.
- Easy to assemble.

More reliable — the high compressibility of Sealex joint sealant produces a very thin, wide ribbon under pressure. This means that the smallest possible area is exposed to liquids and gases.

In this condition, the thin film of Sealex is no longer subject to significant cold flow. You can bolt up once and not have to retorque later.

- Fume ducts.
- Concrete lids.
- \* Glass joints.
- Heat exchangers.
- Fiberglass reinforced plastic vessels.
- Pump or compressor housing flanges.
- Steam vessel flanges.
- Manways.
- \* Ceramic joints.
- Hydraulic and pneumatic systems.
- Water systems.

Or practically any other industrial equipment where you require a long life, trouble-free seal that cuts maintenance costs...

### Sealex Standard Spool Lengths

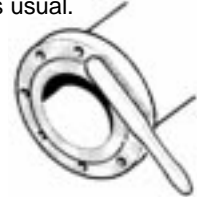
Size (In.)	Regular Spools Ft./Spool	Jumbo Spools Ft./Spool
1/8	100	1,000
3/16	75	750
1/4	50	500
3/8	25	250
1/2	15	150
5/8	15	150
3/4	20	100
1	20	80

Other spool lengths can be reeled to customer order.

Easy to use Sealex

**Follow the simple installation instructions:**

1. Make sure that the sealing flanges are clean and free from rust, dirt and gasket debris. Clean flange face as usual.



2. Cut off a length of Sealex just a little longer than the actual circumference of the perimeter of the seal.



3. Peel off the adhesive protection strip and press the Sealex into position. Cross the free ends of the Sealex adjacent to a bolt hole.



4. Bolt up the mating surfaces using the recommended clamping force and bolt tightening patterns.



## Braided Compression Packing

### Flax



#### RM 522

General service marine packing; also offered with a special graphite waterproof compound lubricant for use in high pressure hydraulic service.

**Service temperature:**  
to 210°F (99°C).

**Service pressure:**  
to 300 psi.

**Surface speed:** to 1,000 fpm.

### Aramid



#### RM 945

Clean, high temperature resistant packing. Braided Flextra impregnated with PTFE, plus break-in lubricant. Also filament Kevlar™.

**Service temperature:**  
to 500°F (260°C).

**Service pressure:**  
to 500 psi.

**Surface speed:** to 2,250 fpm.

### Teflon®



#### RM 847, RM 847FDA\*

Braided PTFE filament impregnated with a high concentration of PTFE suspensoid; also offered with a FDA approved lubricant.

**Service temperature:**  
to 500°F (260°C).

**Service pressure:**  
to 1200 psi.

**Surface speed:** to 2,200 fpm.

### Carbon/Graphite



#### RM 862

Braided, high purity carbon. Can also be impregnated with PTFE or finely powdered inorganic graphite.

**Service temperature:**  
to -200°F (-93°C).  
to Steam 1200°F (635°C).

**Service pressure:**  
pumps to 300 psi.

**Surface speed:** to 4,000 fpm.

### Synthetic Teflon/Graphite



#### RM 941

Multiservice acrylic yarns impregnated with PTFE or graphite and treated with a break-in lubricant.

**Service temperature:**  
to 500°F (260°C).

**Service pressure:**  
to 300 psi.

**Surface speed:** to 1,500 fpm.

### Expanded PTFE/Graphite



#### RM 844\*

GFO™ yarns with Flextra™ corners. Also available with 100% braided GFO graphite filled expanded PTFE yarns.

**Service temperature:**  
to 500°F (260°C).

**Service pressure:**  
to 600 psi.

**Surface speed:** to 3,600 fpm.

### Papermill/ Caustic



#### RM 954

Braided yarns of high technology fibers, impregnated with PTFE dispersion; ideal for high caustic levels seen in pulp and paper and chemical processes.

**Service temperature:**  
to 450°F (232°C).

**Service pressure:**  
to 500 psi.

**Surface speed:** to 2,000 fpm.

### High Performance Synthetic



#### RM 980

Outstanding general purpose pump packing; braided Novaloid yarn, PTFE impregnated with special break-in lubricant.

**Service temperature:**  
to 480°F (250°C).

**Service pressure:**  
to 300 psi.

**Surface speed:** to 2,200 fpm.

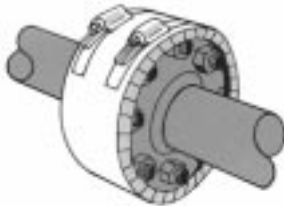
Teflon is a registered trademark and Kevlar is a trademark of DuPont Co.; GFO is a trademark of the W.I. Gore Associates and Flextra is a trademark of RM Engineered Products.

\*See next page for details.

## Flange and Valve Shields

Advance Products & Systems, Inc. designs and manufactures spray shields to inhibit dangerous leaks of hazardous high-temperature materials. The shields are effective in reducing damage to surrounding equipment and injuries to plant personnel. Inspection costs, repairs and resulting downtime are also reduced due to leak containment through the use of shields.

### Flange Shields



#### Metal

Metal shields are manufactured from 24 gauge sheet metal with 100% stainless steel, quick coupling worm-gear and screw connections for easy installation.

##### Stainless steel:

- Available in 304 and 316 grades Stainless Steel.
- Max. operating temperature 2000°F.
- Max. operating pressure 3,500 psi.
- Sizes ½" to 48" pipe diameter.
- 150# ANSI to 2500# ANSI.

##### Galvanized steel:

- Max. operating temperature 800°F.
- Sizes ½" to 48" pipe diameter.
- 150# ANSI to 2500# ANSI.

Both types of metal shields can be manufactured with anti-mist screens.

Drain shields are also available. These are similar to the metal shields except that there is a stainless steel nipple attached to the bottom of the shield to allow for drainage of any leaks. Drain shields are also caulked around the nipple and the sides are seal welded.

#### Cloth



Plastic cloth shields are manufactured of clear reinforced cloth for easy visibility or a UV stabilized colored cloth which is resistant to sun, rain

and fumes. They include the standard pH leak indicating patches on the colored shields.

##### Teflon®:

- Teflon® coated glass cloth.
- Teflon® thread and drawstring.
- pH leak indicating patch.
- Max. operating temperature 450°F.
- Sizes ¼" to 36" pipe diameter.
- 50# ANSI to 300# ANSI.

##### Polyvinyl, Polyethylene, Saran®:

- Max. operating temperature 170°F.
- Sizes ¼" to 36" pipe diameter.
- 150# ANSI to 300# ANSI.

##### Polypropylene:

- Max. operating temperature 200°F.
- Sizes ¼" to 36" pipe diameter.
- 150# ANSI to 300# ANSI.

### Expansion Joint Shields



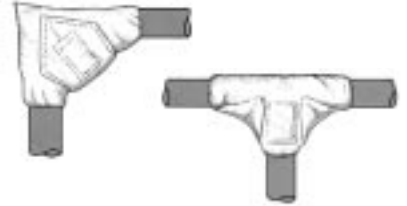
An especially critical area for use of shields is on expansion joints. The major manufacturers of Teflon® lined expansion joints recommend the use of spray shields with their products. Warnings requiring their use are printed on their boxes for the expansion joints and in their product brochures. Advance expansion joint shields are manufactured of only Teflon®.

### Valve Shields



Valve shields are manufactured to fit all types of valves including butterfly, globe, check, gate, ball and plug. These shields are available in the same cloth or metal materials and a complete range of sizes as our full line of other shielding products.

### Specialty Shields



Other specialty shields are available for screw-pipe fittings including unions, couplings, elbows and tees.

#### How to Order:

##### Metal Shields

##### For Valves, please specify:

1. Pipe size.
2. Type of valve and manufacturer.
3. Width of valve including flange.
4. Location of control arm.
5. Diameter of opening to accommodate stem.
6. Type metal: 304, 316 Stainless or Galvanized Steel.

##### For Flanges, please specify:

1. Pipe size.
2. Pressure rating.
3. Type metal: 304, 316 Stainless or Galvanized Steel.

##### Cloth Shields

##### For Valves, please specify:

1. Pipe size.
2. Type of valve and manufacturer.
3. Width of valve including flange.
4. Location of control arm.
5. Diameter of opening to accommodate stem.
6. Type cloth: Teflon®, polyvinyl, polyethylene, polypropylene or Saran®.

##### For Flanges, please specify:

1. Pipe size.
2. Pressure rating.
3. Type cloth: Teflon®, polyvinyl, polyethylene, polypropylene or Saran®.

##### For Expansion Joints, please specify:

1. Pipe size.
2. Manufacturer of expansion joint.
3. Number of convolutions.

**Note:** Shields for expansion joints are manufactured of Teflon® only.

## Spiral-Wound Gaskets

### Quality Construction

Available in a full range of styles and materials, our spiral-wound gaskets are manufactured in accordance with API Standard 601/ASME B 16.20 for use in all industry flanges, including ASME/ANSI B 16.5, ASME B 16.47, API 605 and MSS SP-44. Our gaskets adhere strictly to these specifications as routine inspection procedures are applied throughout the manufacturing process. We maintain traceability of all materials used in our gasket construction to provide material certifications as required.

### Styles

- LG-11 Spiral winding only
- LG-11-IR Spiral winding with inner ring
- LG-11-HE Spiral winding with double jacketed rib
- LG-13 Spiral winding with outer guide
- LG-13-IR Spiral winding with outer guide and inner ring
- LG-13-HE Spiral winding with outer guide and double jacketed rib
- LG-14 Spiral winding for manholes and handholes



### LG-13

#### Spiral Windings with Outer Guides

Style LG-13 gaskets are available in standard sizes. Additionally, LG-13s can be custom made to meet specified dimensions. Both standard and custom LG-13s are manufactured in the full range of winding metals, filler materials and outer guide alloys.

#### LG-13 (API-601 / ASME B 16.20) Gasket Dimensions for ASME / ANSI B 16.5 Flanges

Flange Size (NPS) (In.)	Class 150, 300				Class 400, 600				Class 900			Class 1500, 2500			
	Gasket		150 lb. Outer Guide	300 lb. Outer Guide	Gasket		400 lb. Outer Guide	600 lb. Outer Guide	Gasket		Outer Guide	Gasket		1,500 lb. Outer Guide	2,500 lb. Outer Guide
	I.D. (In.)	O.D. (In.)	O.D. (In.)	O.D. (In.)	I.D. (In.)	O.D. (In.)	O.D. (In.)	O.D. (In.)	I.D. (In.)	O.D. (In.)	O.D. (In.)	I.D. (In.)	O.D. (In.)	O.D. (In.)	O.D. (In.)
1/2	3/4	1 1/4	1 1/8	2 1/8	3/4	1 1/4		2 1/8				3/4	1 1/4	2 1/2	2 3/4
3/4	1	1 5/8	2 1/4	2 5/8	1	1 1/8		2 5/8				1	1 1/8	2 3/4	3
1	1 1/4	1 7/8	2 5/8	2 7/8	1 1/4	1 7/8		2 7/8				1 1/4	1 7/8	3 1/8	3 3/8
1 1/4	1 7/8	2 3/8	3	3 1/4	1 7/8	2 3/8		3 1/4				1 5/8	2 3/8	3 1/2	4 1/8
1 1/2	2 1/8	2 3/4	3 3/8	3 3/4	2 1/8	2 3/4		3 3/4				1 7/8	2 3/4	3 3/8	4 5/8
2	2 3/4	3 3/8	4 1/8	4 3/8	2 3/4	3 3/8		4 3/8				2 5/8	3 3/8	5 5/8	5 3/4
2 1/2	3 1/4	3 7/8	4 7/8	5 1/8	3 1/4	3 7/8		5 1/8				2 3/4	3 7/8	6 1/2	6 5/8
3	4	4 3/4	5 5/8	5 5/8	4	4 3/4		5 5/8	3 3/4	4 3/4	6 5/8	3 5/8	4 3/4	6 7/8	7 3/4
4	5	5 5/8	6 7/8	7 1/8	4 3/4	5 5/8	7	7 1/8	4 3/4	5 5/8	8 1/8	4 5/8	5 5/8	8 3/4	9 1/4
5	6 1/8	7	7 3/4	8 1/2	5 13/16	7	8 3/8	9 1/2	5 13/16	7	9 3/4	5 5/8	7	10	11
6	7 3/16	8 1/4	8 3/4	9 5/8	6 7/8	8 1/4	9 3/4	10 1/2	6 7/8	8 1/4	11 3/8	6 3/4	8 1/4	11 1/8	12 1/2
8	9 3/16	10 3/8	11	12 1/8	8 7/8	10 3/8	12	12 5/8	8 3/4	10 3/8	14 1/8	8 1/2	10 3/8	13 3/8	15 1/4
10	11 5/16	12 1/2	13 3/8	14 1/4	10 13/16	12 1/2	14 1/8	15 3/4	10 7/8	12 1/4	17 1/8	10 1/2*	12 1/4	17 1/8	18 3/4
12	13 3/8	14 3/4	16 1/8	16 5/8	12 7/8	14 3/4	16 1/2	18	12 3/4	14 1/2	19 5/8	12 3/4**	14 1/2	20 1/2	21 5/8
14	14 5/8	16	17 3/4	19 1/8	14 1/4	16	19	19 3/8	14	15 3/4	20 1/2	14 1/4	15 3/4	22 3/4	
16	16 5/8	18 1/4	20 1/4	21 1/4	16 1/4	18 1/4	21 1/8	22 1/4	16 1/4	18	22 5/8	16	18	25 1/4	
18	18 11/16	20 3/4	21 5/8	23 1/2	18 1/2	20 3/4	23 3/8	24 1/8	18 1/4	20 1/2	25 1/8	18 1/4	20 1/2	27 3/4	
20	20 11/16	22 3/4	23 3/8	25 3/4	20 1/2	22 3/4	25 1/2	26 1/8	20 1/2	22 1/2	27 1/2	20 1/4	22 1/2	29 3/4	
24	24 3/4	27	28 1/4	30 1/2	24 3/4	27	30 1/4	31 1/8	24 3/4	26 3/4	33	24 1/4	26 3/4	35 1/2	

\*\*NPS 10, Class 2500 Gasket I.D. is 10 5/8.

\*\*NPS 12, Class 2500 Gasket I.D. is 12 1/2.

ASME B 16.20 requires inner guide rings on Teflon-filled gaskets.

**NOTE:** Inner rings are required for Class 900 gaskets, NPS 24; Class 1500 gaskets, NPS 12 through NPS 24; and Class 2500 gaskets, NPS 4 through NPS 12. There are no Class 400 flanges in NPS 1/2 through NPS 3 (use Class 600), Class 900 flanges in NPS 1/2 through NPS 2 1/2 (use Class 1500), or Class 2500 flanges NPS 14 and larger.