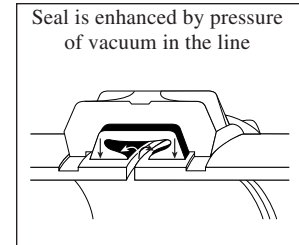
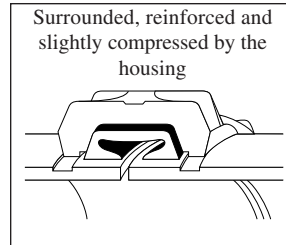
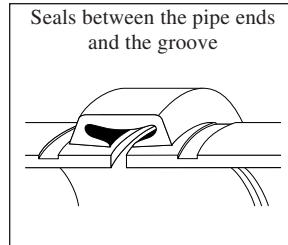
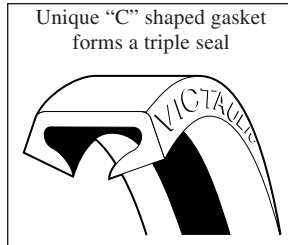


# Water, Sewer & Drain Fittings B-49

## Victaulic Gasket Selection Guide

B

### 800-EJP-24 HR



The sealing efficiency of Victaulic gaskets is such that the gasket forms an initial seal as it is stretched over the pipe ends. Upon placement of the housing around the gasket and into the grooves, the gasket is positioned. As the housing segments are tightened, the resilient elastomeric gasket conforms to the internal cavity of the housing and is further compressed, enhancing the gasket's seal against the pipe. The Victaulic gasket is pressure responsive.

The combination of these characteristics creates a permanent, leak-tight triple seal on a variety of piping materials including carbon steel, stainless steel, aluminum, PVC, cast iron and copper.

Line pressure serves to strengthen the seal through the combination of normal gasket resilience, housing reinforcement and the action of pressure downward on the lips.

The Victaulic gasket design seals equally well under vacuum. Vacuum creates a pressure differential between the inside and outside of the piping system. The resulting increased force from external pressure differential has the same seal strengthening effect as internal pressure.

### Vacuum Service

The Victaulic gasket design seals equally well under pressure or vacuum. Vacuum creates a pressure differential between the inside and outside of the piping system. The resulting increased force from the external pressure has the same seal enhancement effect as internal pressure. For continuous vacuum service greater than ten inches of mercury, we recommend the use of molded Victaulic FlushSeal® gaskets or Victaulic standard gaskets with a metal ring liner, both available from your Victaulic distributor. The FlushSeal feature and the metal liner both prevent distortion of the gasket due to the pulling action of a high vacuum at the center of the gasket. Either molded FlushSeal gaskets or gaskets with metal liners are recommended on strong vacuums and suitable for applications wherein vacuum conditions are anticipated to a maximum value of 29.9" of mercury.

### ANSI/NSF 61 Standard

ANSI/NSF 61 is a National Standard that was developed to establish minimum requirements for the control of potential adverse human health effects from products which contact drinking water. Its primary focus is on contaminants

or impurities which may be imparted indirectly to drinking water. Materials that do not come in direct contact with the potable water do not require evaluation.

The classification categories for pipe and related products and joining and sealing materials, as established by ANSI/NSF 61 are "cold", which is limited to +86°F (+30°C) maximum and "hot" which is limited to +180°F (+82°C) maximum. These categories were established by the maximum ambient distribution temperature of unheated water for "cold" and a temperature well in excess of a scalding temperature for "hot" domestic water. The following list represents the current classifications on our products:

### EPDM "E" Gaskets:

UL classified in accordance with ANSI/NSF 61 for cold +86°F (+30°C) and hot +180°F (+82°C) potable water service.

### Halogenated Butyl "M" Gaskets:

UL classified in accordance with ANSI/NSF 61 for cold +86°F (+30°C) potable water service.

### Black PPS Coating:

The black PPS (Polyphenylene Sulfide blend) coating applied to our Vic®-300 butterfly valves is UL classified in accordance with ANSI/NSF 61 for cold +86°F (+30°C) and hot +180°F (+82°C) potable water service.

### Vic-Press 304™ and Pressfit Stainless (Type 316) Couplings and Fittings:

UL classified in accordance with ANSI/NSF 61 for cold +86°F (+30°C) and hot +180°F (+82°C) potable water service with "E", "T" or "O" o-rings.

### Vic-Press 304 and Pressfit Stainless (Type 316) Pipe:

UL classified in accordance with ANSI/NSF 61 for cold +86°F (+30°C) and hot +180°F (+82°C) potable water service. In addition to the above, the standard black asphalt coating used on our cement lined AWWA size fittings is NSF 61 Listed. As the coating is the only material that comes in contact with the water, NSF 61 compliant coatings are commercially available and may be applied to our products.

# Water, Sewer & Drain Fittings B-50

# Victaulic Gasket Selection Guide

**800-EJP-24 HR**

## Lubricant

Thorough lubrication of the gasket exterior including the lips and/or pipe ends and housing interiors, is essential to prevent pinching the gasket. Lubrication assists proper gasket installation.

Use Victaulic Lubricant for installation. Other compatible material, such as silicone and others may be used on Grades "E" or "L" gaskets.

Lubricant is available in 4 1/2 ounce tubes. Victaulic Lubricant is also available in 32 ounce containers.

**NOTE:** Victaulic Lubricant is not recommended for use with polyethylene pipe.

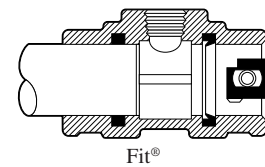
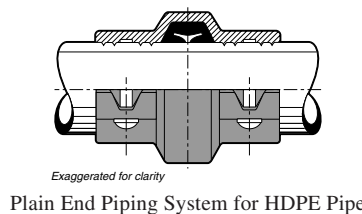
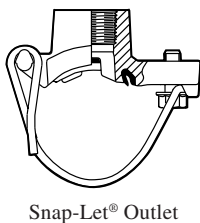
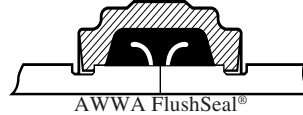
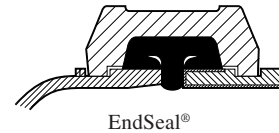
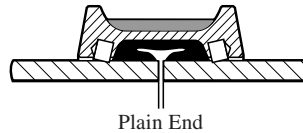
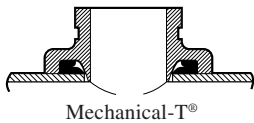
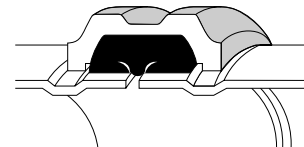
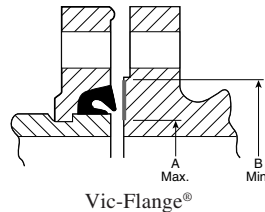
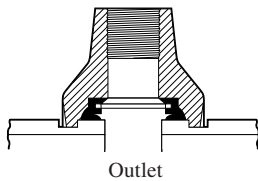
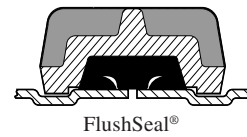
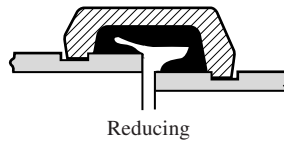
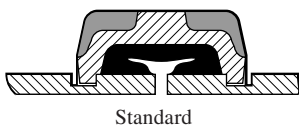
**Always use lubricant for proper coupling assembly.**



Size of Gasket (inches)	Number of Gaskets	
	Per Tube	Per Quart
2	55	400
3	36	270
4	26	200
6	17	125
8	13	100
10	11	80
12	8	60
14	7	50
16	6	45
18	5	35
20	4	30
24	3	20

## Gasket Styles

All drawings shown below and on the next page have been exaggerated for clarity



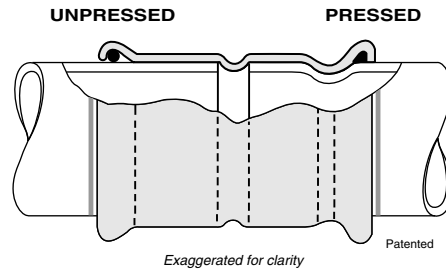
# Water, Sewer & Drain Fittings B-51

## 800-EJP-24 HR

# Victaulic Gasket Selection Guide

**B**

## O-ring Style



## Gasket Selection

For Specific Service Recommendations, Contact E.J. Prescott At 877-582-1851

### STANDARD GASKETS (IPS PRODUCTS)

Grade	Temp. Range	Compound	Color Code	General Service Recommendations
<b>E</b>	-30° F to +230° F -34° C to +110° C	EPDM	Green Stripe	Recommended for hot water service within the specified temperature range plus a variety of dilute acids, oil-free air and many chemical services. UL classified in accordance with ANSI/NSF 61 for cold +86° F (+30° C) and hot +180° F(+82° C) potable water service. Not recommended for petroleum services.
<b>T</b>	-20° F to +180° F -29° C to +82° C	Nitrile	Orange Stripe	Recommended for petroleum products, air with oil vapors, vegetable and mineral oils within the specified temperature range. Not recommended for hot water services over + 150° F (+66° C) or for hot dry air over +140° F (+60° C).
<b>E</b> (Type A)	Ambient	EPDM	Violet Stripe	Applicable for wet and dry (oil free air) sprinkler services up to 175 PSI (1200 kPa). For dry services, Victaulic continues to recommend the use of FlushSeal® gaskets.

### SPECIAL GASKETS (IPS PRODUCTS)

<b>M-2</b>	-40° F to +160° F -40° C to +71° C	Epichlorohydrin	White Stripe	Specially compounded to provide superior service for common aromatic fuels at low temperatures. Also suitable for certain ambient temperature water services.
<b>V</b>	+30° F to +180° F -1° C to +82° C	Neoprene	Yellow Stripe	Recommended for hot lubricating oils and certain chemicals. Good oxidation resistance. Also available in white neoprene. Contact E.J. Prescott for details.
<b>O</b>	+20° F to +300° F -7° C to +149° C	Fluoro-elastomer	Blue Stripe	Recommended for many oxidizing acids, petroleum oils, halogenated hydrocarbons, lubricants, hydraulic fluids, organic liquids and air with hydrocarbons.
<b>L</b>	-30° F to +350° F -34° C to +177° C	Silicone #	Red Gasket	Recommended for dry heat, air without hydrocarbons to +350° F (+177° C) and certain chemical services.
<b>A</b>	+20° F to +180° F -7° C to +82° C	White Nitrile	White Gasket	Meets FDA requirements and conforms to CFR Title 21 Part 177.2600.
<b>T</b> (EndSeal)	-20° F to +150° F -29° C to +66° C	High Modulus Nitrile	None-External I.D.	Specially compounded with excellent oil resistance and a high modulus for resistance to extrusion. Temperature range -20° F to +150° F (-29° C to +66° C). Recommended for petroleum products, air with oil vapors, vegetable and mineral oils within the specified temperature range. Not recommended for hot water services over +150° F (+66° C) or for hot, dry air over +140° F (+60° C). For maximum gasket life under pressure extremes temperature should be limited to +120° F (+49° C). Special Fire-R™ EndSeal® gasket available, qualified to API 607 standards. Contact E.J. Prescott for details.

### STANDARD AWWA GASKETS

<b>M</b>	-20° F to +200° F -29° C to +93° C	Halogenated Butyl	Brown Stripe	Recommended for water service within the specified temperature range plus a variety of dilute acids, oil-free air and many chemical services. UL classified in accordance with ANSI/NSF 61 for cold +86° F (+30° ) potable water service. Not recommended for petroleum services.
<b>S</b>	-20° F to +180° F -29° C to +82° C	Nitrile	Red Stripe	Specially compounded to conform to ductile pipe surfaces. Recommended for petroleum products, air with oil vapors, vegetable and mineral oils within the specified temperature range. Not recommended for hot water services over + 150° F (+66° C) or for hot dry air over +140° F(+60° C).

#FIT products silicone gaskets are recommended for fire protection dry systems, all systems operating below 0° F (-18° C), plus dry heat, air without hydrocarbons, certain chemical services, and water to +160° F (+70° C).

To assure the maximum life for the service intended, proper gasket selection and specification in ordering is essential.

Many factors must be considered in determining the optimum gasket for a specific service. The foremost consideration is temperature, along with concentration of product, duration of service and continuity of service. Temperatures beyond the recommended limits have a degrading effect on the gasket. Therefore, there is a direct relationship between temperature, continuity of service and gasket life.

#### NOTE:

Services listed are General Service Recommendations only. It should be noted that there are services for which these gaskets are NOT recommended. Reference should always be made to the latest Victaulic Gasket Selection Guide for specific recommendations.

Gasket recommendations apply only to Victaulic gaskets. Recommendations for a particular service do not necessarily imply compatibility of the coupling housing, related fittings or other components for the same service.