



SELCO SEAL® GASKETS

SERVICING THE WORLD



Technical Data Summary

The SELF LOCATOR gaskets are a complete stainless steel containment of a sealing element offering a true compression seal. The patented design gives you long term reliability without flange welding and eliminates misalignment on installation. Due to its universal sizing, one gasket fits all flange pressure classes, eliminating the chance of incorrect gasket selection.

The most important feature of the gasket is the high unit load generated by the narrow sealing area provides a considerably higher flange clamping pressure and a better seal at a lower clamping force.

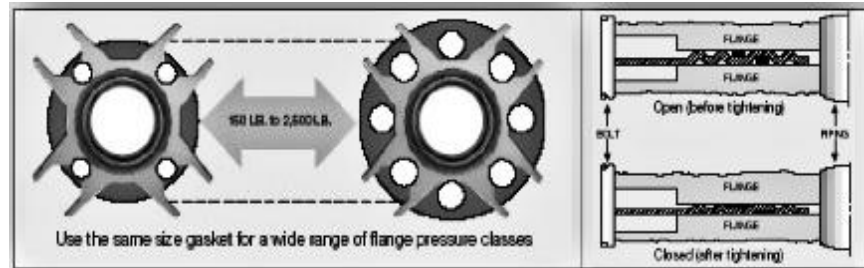
The standard gasket material is **304 SS**, with two (2) tracks of **Flexible Graphite** sealing elements. Specialty gasket material and/or sealing elements are available as options.

Key Benefits

- *Ability to cope against severe thermal cycling and vibration.*
- *Inherent Live Loading capability.*
- *Fire, Blow Out and Leak proof.*
- *Superior pressure handling.*
- *Standardize... one gasket for all pressure classes.*
- *Protects against use of wrong gasket.*
- *Lowers total sealing costs.*
- *Cannot be over compressed.*
- *No need to re-torque.*
- *Eliminates fugitive emissions.*
- *US Navy approved.*
- *ANSI, DIN, JIS, BS and AUS sizes available.*

METAL CARRIER	MM
Carbon Steel	20
304 Stainless Steel	70
316 Stainless Steel	80

SEALING ELEMENT (per track)	S
Flexible Graphite	1
PTFE	2
Fiberfrax	3
MICA	4



TECHNICAL DATA	
Sizes:	½, ¾, 1, 1¼, 1½, 2, 2½
<i>(including metric equivalent)</i>	3, 3½, 4, 5, 6, 8, 10, 12
	14, 16, 18, 20, 22, 24
Flange Pressure Class:	150# to 2500#
Thickness:	1/32" thru 12"; 1/16" above 12"
Torque Values:	50% to 65% of Bolt Yield
Flange Surface Finish:	10 to 400 µin RMS (microinches)
Sealing elements width:	≥1½ (gasket size) 0.125" each side.
Sealing elements width:	½ to 1¼ (gasket size) 0.100" each side.
Minimal sealing element web width:	0.670"
"M" and "Y" values:	m = 2.85, Y = 2900 psi
Leak Rate:	0.005 in mg/m · s <i>(DIN 28090 / 1..2)</i>
	< 10ppm @ He
Temperature Range:	-200°C cryogenic air
	+500°C in regular atmosphere
	+650°C in steam
	+1000°C reducing or inert media
Pressure Range:	Full vacuum to +5000 psi
Minimum seating stress:	2900 psi (20 MPa)
Maximum seating stress:	23,200 psi (160 MPa) <i>(testing equipment limit)</i>
Recommended seating stress:	5800 to 8700 psi (40 to 60 MPa)
Standards Available:	ANSI 16.5, DIN 2600, JIS B2220, BS 4505, BS 10, AUS 2129

Gasket Description

XMMSS = Format

- X = Flange Standard (ANSI, DIN, etc)
- MM = Metal Carrier
- SS = Sealing Element (1st track, 2nd track)

Example

SELF LOCATOR A7021 – 1.5"
ANSI, 304L with 1st track PTFE, 2nd track
Flexible Graphite, Size 1.5"

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