



SEALING AND PACKING SYSTEMS, INC.

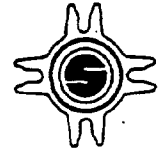
315 East Fifth Avenue, P.O. Box 8427

Columbus, Ohio 43201

(614) 294-3263



SELCO-SEAL



GENERAL INFORMATION AND INSTALLATION PROCEDURE

SELCO-SEAL'S PATENTED DESIGN CONCEPT WAS DEVELOPED EXPRESSLY TO PROVIDE A MEANS OF MAKING FLEXIBLE CARBON PRACTICAL FOR GENERAL INDUSTRIAL GASKETING SERVICES. THE REMARKABLY STABLE MATERIAL LACKS STRENGTH. THE METAL MEMBER OF SELCO-SEAL PROVIDES THE NECESSARY SUPPORT AND PROTECTION. THE MATERIAL IS CHEMICALLY INERT, BINDERLESS AND STABLE AT ANY TEMPERATURE. COMPLETELY CONFINED AS IN OUR PRODUCT, IT CANNOT CORRODE OR OXIDIZE. WITH PROPER INSTALLATION THE SEAL IS PERMANENT!

1. BE CAREFULL NOT TO DAMAGE CARBON SEALING ELEMENTS DURING GASKET PLACEMENT, ESPECIALLY IN TIGHT INSTALLATIONS.
2. FIRST INSTALL ALL BOLTS FINGER TIGHT.
3. CROSS TORQUE IN SMALL INCREMENTS.
4. FLANGES FACES MAY BE SMOOTH, AS-MACHINED OR PHONOGRAPH FINISH TO ANSI SPECIFICATIONS.
5. DO NOT APPLY PRESSURE TO THE SYSTEM UNTIL ALL SELCO'S ARE FINALLY AND PROPERLY INSTALLED.
6. IN ALL CASES, SUFFICIENT CLAMPLOAD MUST BE APPLIED TO COLLAPSE THE CONCENTRIC GROOVES IN WHICH THE CARBON ELEMENTS ARE EMBEDDED. HARD TORQUE IS REQUIRED TO DO THIS.
7. EXCESSIVE CLAMPLOAD DOES NOT DAMAGE SELCO-SEALS.
8. WE RECOMMEND TIGHTENING TO 65% OF BOLT YIELD.

PLANT MAINTENANCE COSTS HAVE SOARED IN RECENT YEARS. RISING PROCESS TEMPERATURES AND INCREASINGLY-CORROSIVE MEDIA MAKE QUICK WORK OF THE ASBESTOS GASKETS IN USE. EXCESSIVE PLANT MAINTENANCE COSTS RESULT. STATISTICS SHOW THAT 5% OR MORE OF THE 100,000 GASKETED JOINTS IN A REFINERY OR SIMILAR PROCESSING PLANT WILL BE LEAKING AT ANY TIME DURING OPERATION! THE EFFECT ON MAINTENANCE COSTS IS DEVASTATING.

PERMANENT SEALING ALA SELCO-SEAL PERMITS HUGE SAVINGS IN ENERGY CONSERVATION FROM STEAM ESCAPE! THERE ARE NO EMISSIONS FROM SELCO-SEALED FLANGES. WIRE-DRAWN FLANGES ARE AVOIDED. NO EXPENSIVE REPAIR OF DAMAGED SURFACES! NO DESTROYED EQUIPMENT FROM HOLE-DRILLING! JUST REPLACE THE SELCO WHEN SERVICING IS FINISHED AND GO BACK TO WORK!

PLEASE REFER TO 65% BOLT YIELD CHART

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SELCO-SEAL TORQUE CHART

FOR 65% OF BOLT YIELD

REDUCE TORQUE 30% FOR LUBRICATED BOLT

BOLT SIZE	STRESS AREA IN ²	SAE GRD. 2 (TORQUE) DRY FOR LUBE TAKE 70% OF CHARTED FIGURE	SAE GRD. 5 (TORQUE) DRY FOR LUBE TAKE 70% OF CHARTED FIGURE	SAE GRD. 8 (TORQUE) DRY FOR LUBE TAKE 70% OF CHARTED FIGURE
3/8-16	.0775	219 In-lb	340 In-lb	491 In-lb
1/2-13	.1419	44.5 Ft-lb	69 Ft-lb	100 Ft-lb
5/8-11	.226	85 "	138 "	199 "
3/4-10	.334	149 "	244 "	353 "
7/8-9	.462	241 "	355 "	569 "
1-8	.606	328 "	531 "	853 "
1 1/8-8	.790	481 "	741 "	1251 "
1 1/4-8	1.000	541 "	1043 "	1760 "
1 3/8-8	1.233	734 "	1414 "	2387 "
1 1/2-8	1.492	970 "	1866 "	3151 "
1 5/8-8	1.780	1034" "	1723 "	3760 "
1 3/4-8	2.080	1301 "	2169 "	4732 "
1 7/8-8	2.410	1615 "	2692 "	5875 "
2-8	2.770	1980 "	3300 "	7202 "
2 1/4-8	3.56	2863 "	4772 "	10,413 "
2 1/2-8	4.440	3968 "	6613 "	14,430 "
2 3/4-8	5.430	5338 "	8897 "	16,985 "
3-8	6.510	6982 "	11,636 "	22,215 "

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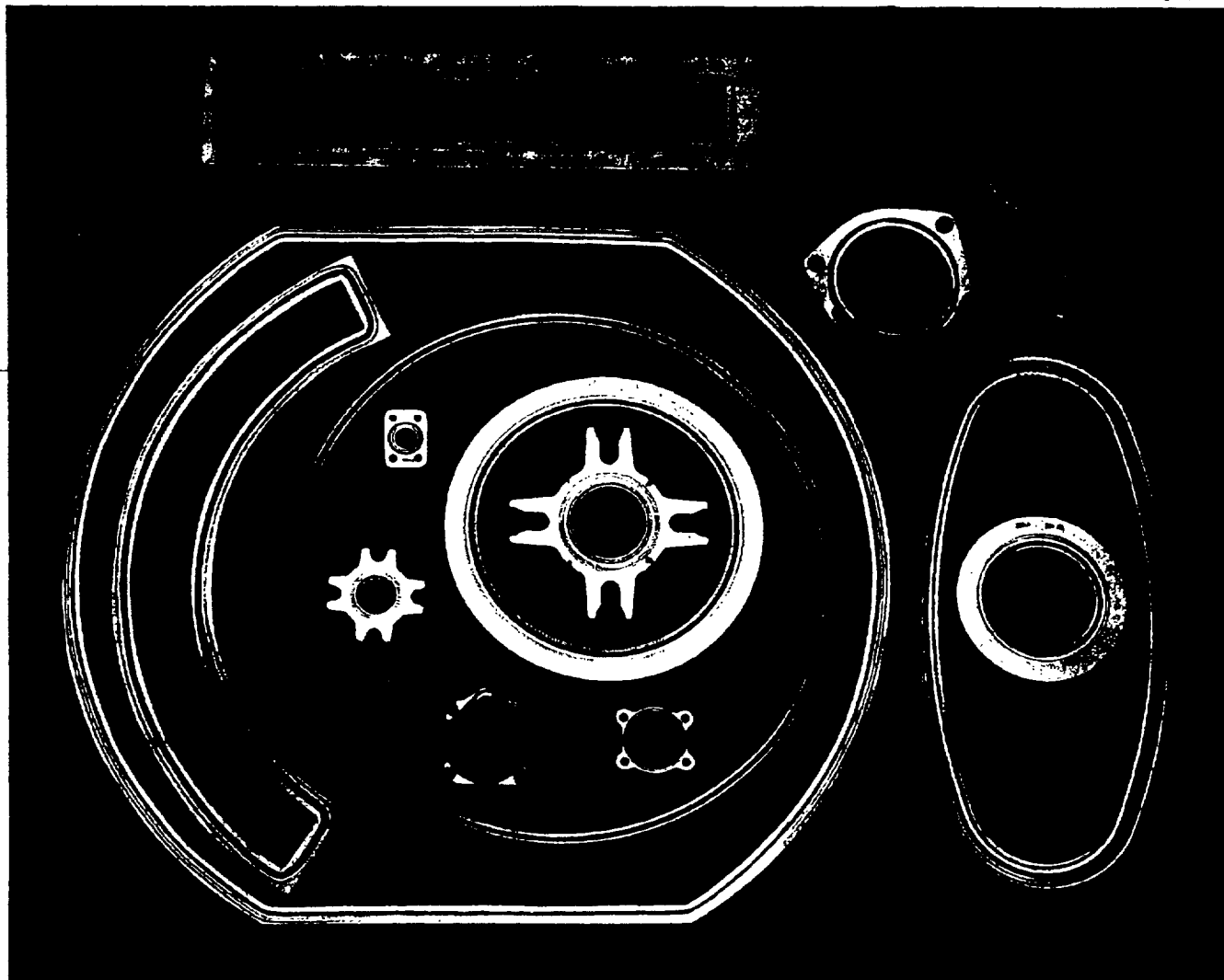
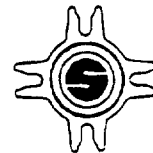


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BELCO-SEALS are used for all static sealing purposes. In addition to the standard ANSI series, the design is available in non-standard configurations, such as flanges, head gaskets, valve bonnet gaskets, steam systems, heat exchangers, pump and compressor head gaskets and more.

BELCO-SEAL gaskets are not affected by thermal cycling in steam systems.

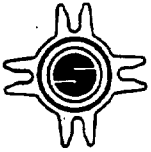


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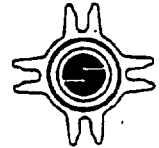
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SELCO-SEALS



Flange Gaskets - Heat Exchanger Gaskets

Self Locating to 12" - Ring Styles to 60"

FEATURES

1. -450° F to 6000° F capability
2. Unaffected by thermal and pressure cycling
3. Permanent as a weld
4. Chemically inert graphosealTM
5. No asbestos, plasticizers or rubber binders
6. Full vacuum to 2500 PSI and beyond
7. No cold flow of sealing members
8. Self-locating style flange gasket reduces inventory...one seal for all ANSI flange pressure ratings
9. Torque once...never retighten
10. Virtually unlimited metallurgy
11. Teflon seal members for oxygen, FDA and other special applications
12. Seals helium and hydrogen molecules

TM Sealing Corporation

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