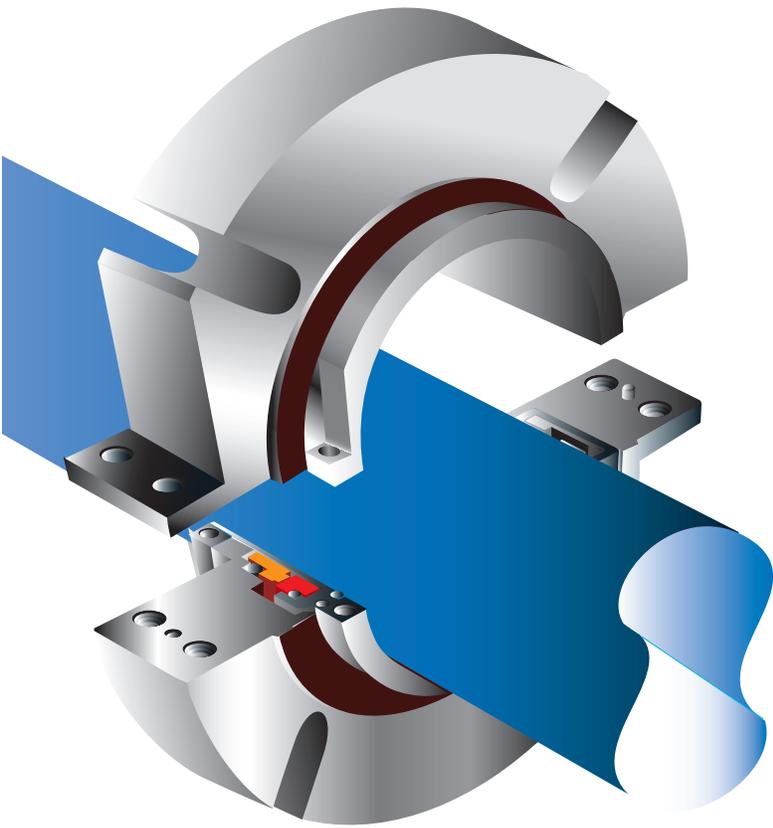




Style 85

World's Only Split Cartridge Seal

(US PATENT NO. 5662340)



for difficult installations





For Difficult Installations

Flex -A-Seal developed the Style 85 Split Cartridge Seal to provide the easiest installation found anywhere in the world. After simply attaching two halves over the shaft, the seal

- No Measurements**
- No Shims**
- No Special Tools**
- No Glue**

just two pieces are handled, eliminating the need to touch sensitive lapped faces. Both sealing faces are secured safely in cartridge halves and cannot be cocked, chipped or scarred.

The design of the Style 85 is like no other split seal on the market. While most split seals are mounted outside the stuffing box and designed to function like an outside seal, the

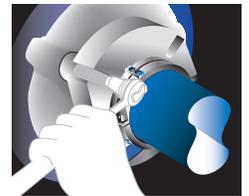
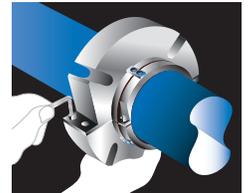
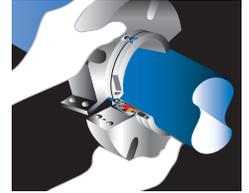


Peace of Mind

Unlike most cartridge seals on the market, the Style 85 is the only split cartridge seal that can be fully assembled and pressure tested at the factory. This ensures the sealing integrity of each seal completely before it is sent to the field.

The Flex-A-Seal Style 85 Split Cartridge Seal ...Fast, Simple and Reliable!

mounts to the equipment like any other cartridge seal. It does not get any easier than that! The Style 85 is the only split seal in the world in which



Style 85 was engineered as a split, internal, hydraulically balanced, stationary seal, mounted outside the stuffing box. These features allow the

centrifugal force to keep the solids away from the seal faces while maintaining the ability to handle higher speeds, internal pressures and misalignment. No need to worry about solids, as the springs are protected and out of the product to eliminate clogging. The static shaft sleeve "o" ring is positioned outside of the stuffing box to assure a good sealing surface, even on worn packing sleeves!



Materials of Construction

Stationary Gland Assembly	316 Stainless Steel
Rotating Sleeve Assembly	316 Stainless Steel
O Rings, Gaskets	Viton (standard) consult factory for AFLAS® or Fluoraz® option
Rotating Face	Silicon Carbide
Stationary Face	Carbon or Silicon Carbide
Springs	Hastelloy C®
Screws	316 Stainless Steel

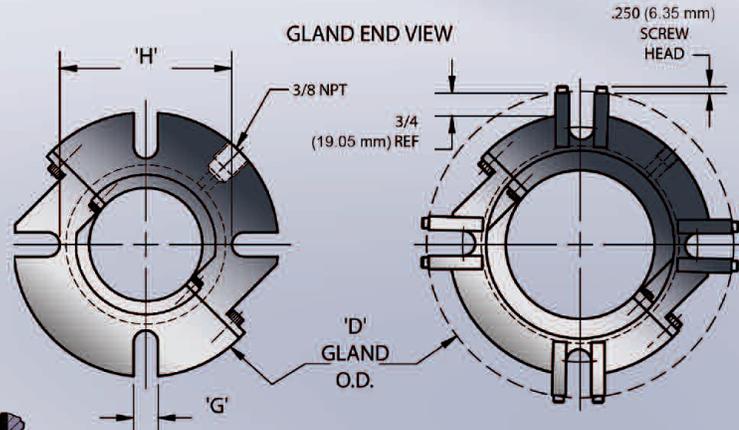
Registered Trademarks:

- Viton® - Dupont Performance Elastomers
- Aflas® - Asahi Glass Co.
- Fluoraz® - Green Tweed
- Hastelloy C® - Cabot Stellite Division

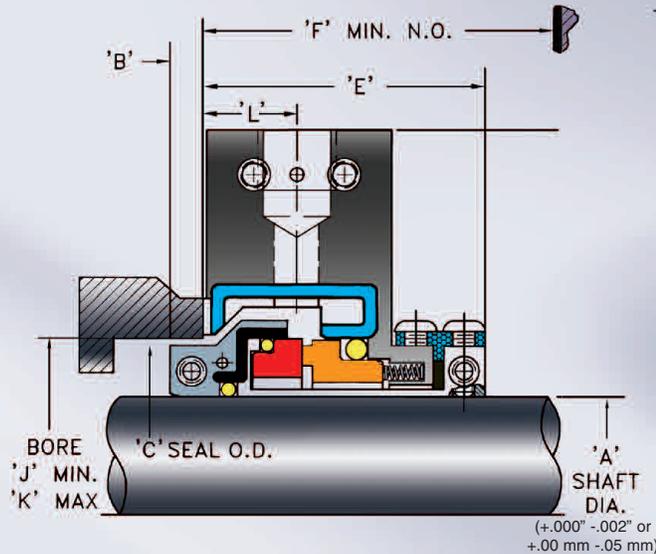
Operating Conditions

Seal Size	Temp.	Speed	Pressure
1 3/4" - 3" (45mm - 75mm)	350°F (175°C)	3600 RPM	250 PSI (17 bar)
3 1/8" - 3 3/4" (80mm - 95mm)	350°F (175°C)	1800 RPM	200 PSI (14 bar)
3 7/8" - 4 3/4" (100mm - 120mm)	350°F (175°C)	1800 RPM	150 PSI (10 bar)
5" and above (125mm and above)	350°F (175°C)	875 RPM	100 PSI (7 bar)

* Maximum temperature / pressure / speed indicates operating extremes independently and does not imply the seal will function at these extremes at the same time. Contact Flex-A-Seal Engineering if in doubt.



with extension slot tabs



IMPERIAL (All sizes in inches)

Size	A	B	C	D	E	F	G	H	J	K	L
-24	1.500	.250	2.187	5.25	2.125	2.500	.562	3.125	2.250	2.625	.656
-27	1.687	.250	2.437	5.50	2.125	2.500	.562	3.375	2.500	2.875	.656
-28	1.750	.250	2.437	5.50	2.125	2.500	.562	3.375	2.500	2.875	.656
-30	1.875	.250	2.562	5.50	2.125	2.500	.562	3.344	2.625	3.000	.656
-31	1.937	.250	2.625	5.44	2.125	2.500	.562	3.563	2.687	3.125	.656
-32	2.000	.250	2.687	5.44	2.125	2.500	.562	3.563	2.750	3.125	.656
-34	2.125	.250	2.812	6.00	2.125	2.500	.687	3.688	2.875	3.375	.656
-35	2.188	.250	2.937	6.25	2.125	2.500	.687	3.813	3.000	3.375	.656
-36	2.250	.250	3.062	6.25	2.125	2.500	.687	3.937	3.125	3.500	.656
-38	2.375	.250	3.187	6.25	2.125	2.500	.687	4.062	3.250	3.500	.656
-39	2.438	.250	3.312	6.44	2.125	2.500	.687	4.125	3.375	3.625	.656
-40	2.500	.250	3.312	6.44	2.125	2.500	.687	4.125	3.375	3.625	.656
-42	2.625	.250	3.347	6.44	2.125	2.500	.687	4.438	3.500	3.875	.656
-43	2.688	.250	3.562	7.82	2.125	2.500	.687	4.438	3.625	4.125	.656
-44	2.750	.250	3.562	7.82	2.125	2.500	.687	4.438	3.625	4.125	.656
-46	2.875	.250	3.687	7.82	2.125	2.500	.687	4.812	3.812	4.250	.656
-47	2.938	.250	3.812	7.88	2.125	2.500	.687	4.938	3.937	4.375	.656
-48	3.000	.250	3.812	7.88	2.125	2.500	.687	4.938	3.937	4.375	.656
-52	3.250	.281	4.188	8.25	2.437	2.812	.812	5.188	4.250	4.750	.812
-54	3.375	.281	4.312	8.25	2.437	2.812	.812	5.313	4.375	4.875	.812
-55	3.438	.281	4.437	8.50	2.437	2.812	.812	5.437	4.500	5.000	.812
-56	3.500	.281	4.437	8.50	2.437	2.812	.812	5.437	4.500	5.000	.812
-58	3.625	.281	4.562	8.63	2.437	2.812	.812	5.562	4.625	5.125	.812
-60	3.750	.281	4.625	8.82	2.437	2.812	.812	5.688	4.687	5.125	.812
-62	3.875	.281	4.812	8.82	2.437	2.812	.812	5.813	4.875	5.250	.812
-64	4.000	.281	4.937	8.82	2.437	2.812	.812	5.813	5.000	5.375	.812
-68	4.250	.281	5.188	9.25	2.437	2.812	.812	6.063	5.250	5.750	.812
-70	4.375	.281	5.312	9.25	2.437	2.812	.812	6.437	5.375	5.875	.812
-72	4.500	.281	5.406	9.69	2.437	2.812	.812	6.500	5.500	6.000	.812
-76	4.750	.281	5.656	9.75	2.437	2.812	.812	6.938	5.750	6.250	.812
-79	4.938	.375	6.188	10.75*	3.062	3.812	.937	7.312	6.312	6.750	.923
-80	5.000	.375	6.188	10.75*	3.062	3.812	.937	7.312	6.312	6.750	.923
-82	5.125	.375	6.375	11.00*	3.062	3.812	.937	7.812	6.500	7.250	.923
-84	5.250	.375	6.375	11.00*	3.062	3.812	.937	7.812	6.500	7.250	.923
-88	5.500	.375	6.688	11.50*	3.062	3.812	.937	7.813	6.812	7.375	.923
-92	5.750	.375	6.938	12.00*	3.062	3.812	.937	8.156	7.062	7.625	.923
-100	6.250	.375	7.438	12.50*	3.062	3.812	.937	8.656	7.562	8.125	.923
-104	6.500	.375	7.688	12.25*	3.062	3.812	.937	8.813	7.812	8.375	.923
-108	6.750	.375	7.938	12.50*	3.250	4.000	.937	9.312	8.062	8.625	.923
-112	7.000	.375	8.188	12.75*	3.250	4.000	.937	9.562	8.312	8.750	.923
-136	8.500	.375	9.688	14.25	3.250	4.000	1.000	11.000	9.812	10.250	.923

METRIC (All sizes in mm)

Size	A	B	C	D	E	F	G	H	J	K	L
-30	45	6.35	65.1	140	54	64	14.3	84.9	66.68	76.20	16.7
-32	48	6.35	68.2	140	54	64	14.3	90.5	68.85	79.38	16.7
-32	50	6.35	68.2	140	54	64	14.3	90.5	68.85	79.38	16.7
-36	55	6.35	77.8	159	54	64	17.4	100.0	79.40	88.90	16.7
-40	60	6.35	84.1	165	54	64	17.4	104.8	85.73	95.25	16.7
-42	65	6.35	85.0	165	54	64	17.4	112.8	88.90	98.40	16.7
-44	70	6.35	90.5	197	54	64	17.4	112.8	92.08	104.77	16.7
-48	75	6.35	96.8	203	54	64	17.4	125.4	100.00	111.10	16.7
-52	80	7.14	106.4	210	62	72	20.6	131.8	108.00	120.65	20.6
-56	87	7.14	112.7	216	62	72	20.6	138.1	114.30	127.00	20.6
-58	90	7.14	115.9	219	62	72	20.6	141.3	117.50	130.20	20.6
-60	95	7.14	117.5	222	62	72	20.6	144.5	119.05	130.18	20.6
-64	100	7.14	125.4	224	62	72	20.6	147.6	127.00	136.52	20.6
-76	120	7.14	143.7	248	62	72	20.6	176.2	146.05	158.75	20.6
-80	125	9.50	157.2	273*	77.8	96.8	23.8	185.7	160.30	171.40	23.4

* Sizes use extension slot tabs

Additional sizes available upon request

Fast, Simple and Reliable

Split seals are designed for environments where conventional seals routinely take many hours to disassemble and reassemble rotary equipment, but the fully split cartridge seal design of the Flex-A-Seal Style 85 is easier to install than conventional seals and other component split seal designs, making this seal ideal for hard to access equipment such as:

- Pumps
- Mixers
- Agitators

The Style 85 is commonly used in many industries:

- Chemical Processing
- Food Processing
- Industrial
- Mining
- Pharmaceutical
- Power Generation
- Petrochemical
- Pulp and Paper
- Refining
- Water and Waste Treatment



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