



## Low Temp Welded Metal Bellows

Flex-A-Seal Inc. is a premier manufacturer of welded metal bellows seals worldwide. Welded metal bellows offer superior performance in fluid sealing applications due to the static shaft O-ring which eliminates the traditional problems of seal hang up and shaft fretting commonly seen in pusher seals with dynamic elastomers. Flex-A-Seal has designed bellows rotaries in a range of sizes from 3/4" to 8" as well as an extensive array of metric sizes and we pride ourselves on supplying the highest quality product quickly and economically. We also offer custom designed welded metal bellows for the industry's most complex pieces of equipment and difficult applications. We encourage you to contact us today!

### Advantages

- Simple one piece construction, no loose parts
- No dynamic elastomers – no hang up
- Hydraulically balanced design
- Self cleaning due to centrifugal force
- Even face loading – allows for full 360 degrees closing force
- Face and O-ring versatility
- Bellows material AM350, Hast-C276 standard
- Other metallurgies and bellows core materials available
- Fits narrow cross section stuffing boxes
- Imperial, metric, and DIN sizes available
- Stationary and rotating designs available
- Cartridge seal design available
- Double ply available for higher pressure
- Low repair cost



### Operating/Design Conditions

#### Temperature

Style 40: -100F to 400°F

Style 42: -150F to 450°F

Style 45: -150F to 450°F

#### Pressure

Internal Mount: Full Vacuum to 300 PSI

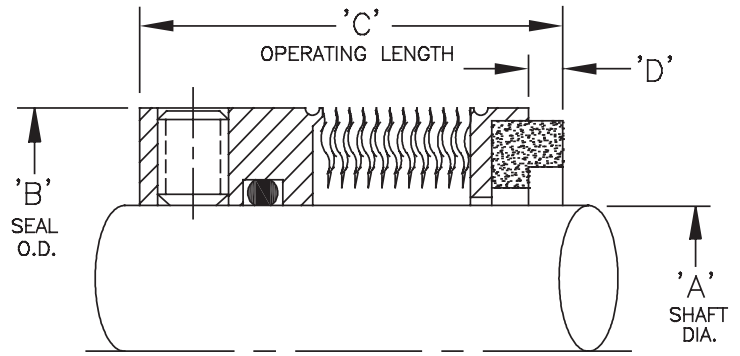
External Mount: Consult factory.

Maximum temperature/pressure ratings indicate operating extremes independently and do not imply that the seal will function at these extremes at the same time. Contact Flex-A-Seal Engineering regarding your specific application.



# Style 40/42/45

SIZE	A	B	C	D	O-RING
-12	.750	1.312	1.250	.120	-116
-13X	.812	1.457	1.250	.120	-117
-14X	.875	1.457	1.250	.120	-118
-15X	.938	1.457	1.250	.120	-119
-16X	1.000	1.457	1.250	.120	-120
-17	1.062	1.687	1.250	.120	-121
-18	1.125	1.687	1.250	.120	-122
-20	1.250	1.812	1.312	.120	-124
-20X	1.250	1.694	1.312	.120	-124
-22	1.375	1.937	1.437	.120	-126
-24	1.500	2.062	1.437	.120	-128
-24X	1.500	1.944	1.437	.120	-128
-26	1.625	2.187	1.437	.120	-130
-28	1.750	2.312	1.437	.120	-132
-30	1.875	2.437	1.500	.120	-134
-32	2.000	2.562	1.500	.120	-226
-34	2.125	2.687	1.500	.120	-138
-36	2.250	2.812	1.562	.120	-140
-38	2.375	2.937	1.562	.120	-142
-40	2.500	3.187	1.562	.120	-144
-42	2.625	3.312	1.625	.120	-146
-44	2.750	3.437	1.625	.120	-148
-46	2.875	3.625	1.687	.120	-150
-48	3.000	3.750	1.687	.120	-151
-50	3.125	3.875	1.750	.120	-235
-52	3.250	4.000	1.750	.120	-236
-54	3.375	4.125	1.750	.120	-237
-56	3.500	4.250	1.875	.120	-238
-58	3.625	4.375	1.875	.120	-239
-60	3.750	4.500	1.875	.120	-240
-62	3.875	4.625	1.875	.120	-241
-64	4.000	4.750	1.875	.120	-242
-66	4.125	5.125	1.875	.125	-243
-68	4.250	5.125	1.875	.125	-244
-70	4.375	5.375	1.875	.125	-245
-72	4.500	5.375	1.875	.125	-246
-74	4.625	5.625	1.875	.125	-247
-76	4.750	5.625	1.875	.125	-248
-80	5.000	5.875	1.875	.125	-250
-84					
-88					
-92	5.750	6.625	1.875	.125	-256
-96					
-100					
-104	6.500	7.375	2.000	.125	-363
-108					
-112	7.000	7.875	2.000	.125	-365



## Materials of Construction:

### Standard Metallurgy:

- **Type 40:** -316 End Fittings with AM350 Bellows
- **Type 42:** -316 S.S. End Fittings with Hastelloy® C Bellows
- **Type 45:** -Hastelloy® C End Fittings and Bellows

**Standard Face Materials:** Carbon, Nickel Bound Tungsten Carbide, Silicon Carbide, Antimony Impregnated Carbon.

**Secondary Seal Packaging:** Viton®(\*), Buna, Aflas®(\*\*), Chemraz®(\*\*\*), PTFE Jacketed Viton, Ethylene Propylene, Kalrez®(\*), Solid PTFE

**Other materials available upon request.**

\* [Reg. Trademark of Dupont Performance Elastomers LLC.]

\*\* [Reg. Trademark of Asahi Glass Co.]

\*\*\* [Reg. Trademark of Greene Tweed Co.]

Hastelloy [Reg. Trademark of Haynes International Inc.]



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