



# Style 40/42/45

## Low Temp Welded Metal Bellows

Flex-A-Seal Inc. is a premier manufacturer of welded metal bellows seals worldwide, offered in sizes from 3/4" – 8" and metric shaft sizes as well. Flex-A-Seal prides itself on providing the highest quality product from stock quickly and economically! Flex-A-Seal also offers custom designed welded metal bellows for the industry's most complex pieces of equipment and difficult applications. 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. We encourage you to contact us today!

## Advantages

- Simple one piece construction, no lose parts
- No dynamic elastomers-no hang up
- Hydraulically balanced seal
- Self cleaning due to centrifugal force
- Even face loading- bellows allows for full 360 degrees closing force
- Face and o-ring versatility
- Bellows material AM350, Hast-C276 standard
- Any weldable material can be furnished
- Fits narrow cross section stuffing boxes
- Imperial, metric, and DIN sizes available in stock
- 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.

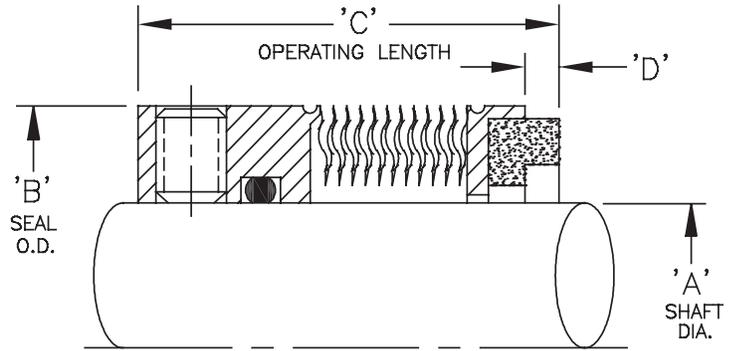
Maximum temperature/pressure ratings indicate operating extremes independently and do not imply that the seal will function at these extremes at the same time. Contact Flex-A-Seal engineering if in doubt.



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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:** -316/17-4 S.S. 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<sup>®</sup>(\*), Buna, Aflas<sup>®</sup>(\*\*), Chemraz<sup>®</sup>(\*\*\*), Teflon Jacketed Viton, Ethylene Propylene, Kalrez<sup>®</sup>(\*), Solid Teflon

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