

## HIGH TEMPERATURE WELDED METAL BELLWS (UP TO 800°F)

*DESIGNED FOR EXTREME HIGH TEMPERATURE ENVIRONMENTS AND PROCESSES*

### FEATURES & BENEFITS

- Hydraulically balanced seal with even 360 degree face loading.
- This design enables the seal to handle more pressure without generating excessive heat at the faces.
- All metal components are engineered to handle elevated temperatures without any adverse effects. Material choices include Alloy 42 or Alloy 718 retainers, heat treated AM350 or Alloy 718 bellows cores, and 316 SS end fittings. Other options may be available dependent on the specific application parameters.
- Static shaft grafoil or metal wedge packing.
- Double ply bellows available in both rotating and stationary designs to accommodate higher pressure applications up to 600 psi.
- The Style 60, 62, and 65 rotating designs are self-cleaning, using centrifugal force to continuously move solids away from the bellows core during operation.
- The Style 62 rotating welded bellows seal incorporates a metal to metal drive mechanism. This feature is especially suited for highly viscous products which can set up and harden.
- The stationary design of the Style 64 bellows seal provides maximum seal face alignment which is necessary when operating at speeds over 4500 SFPM.
- Cartridge designs are available.
- API 682 Type C Arrangement 1, 2, and 3 available.



### MATERIALS OF CONSTRUCTION

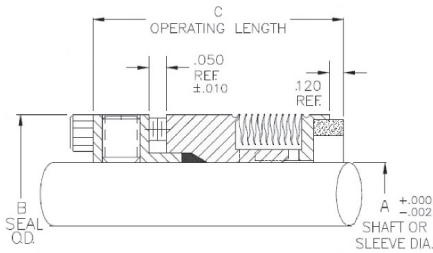
<b>Welded Bellows</b>	AM350 Heat-treated, Alloy 718 Heat-treated
<b>Retainer</b>	Alloy 42, Alloy 718
<b>Other Machine Parts</b>	316 Stainless Steel
<b>Faces</b>	Carbon, Antimony-impregnated carbon, Nickel bound tungsten, Silicon carbide
<b>Secondary Seal Packaging</b>	Grafoil, 316 Stainless Steel
	Other materials available upon request and design approval.

### OPERATING PARAMETERS

	Styles 60, 62, 65	Style 64
<b>Max Temp</b>	800°F (425°C)	800°F (425°C)
<b>Max Pressure</b>	300 psi (20 bar)	300 psi (20 bar)
<b>Max Speed</b>	4500 SFPM	10,000 SFPM

Bellows Size	Shaft OD	Style 60 / 65		Style 62	
		Seal OD	Seal OL	Seal OD	Seal OL
	A	B	C	B	C
-16	1.000	--	--	1.457	1.625
-16X	1.000	1.562	1.687	--	--
-18	1.125	1.687	1.562	1.812	1.750
-20	1.250	--	--	1.937	1.750
-20X	1.250	1.812	1.687	--	--
-22	1.375	1.937	1.750	2.062	1.750
-24	1.500	--	--	2.187	1.750
-24X	1.500	2.170	1.750	--	--
-62	1.625	2.295	1.750	2.312	1.750
-28	1.750	2.420	1.750	2.437	1.750
-30	1.875	2.545	1.750	2.562	1.750
-32	2.000	2.670	1.750	2.687	1.750
-34	2.425	2.795	1.750	2.812	1.750
-36	2.250	2.920	1.875	2.937	1.750
-38	2.375	3.045	1.875	3.187	2.000
-40	2.500	3.187	1.875	3.312	2.000
-42	2.625	3.312	1.875	3.437	2.000
-44	2.750	3.437	1.875	3.625	2.000
-46	2.875	3.625	1.875	3.750	2.000
-48	3.000	3.750	1.875	3.875	2.000
-50	3.125	3.875	1.875	4.000	2.000
-52	3.250	4.00	1.875	4.125	2.000
-54	3.375	4.125	1.875	4.250	2.000
-56	3.500	4.250	1.875	4.375	2.000
-58	3.625	4.375	1.875	4.500	2.000
-60	3.750	4.500	1.875	4.625	2.000
-62	3.875	4.625	1.875	4.750	2.000
-64	4.000	4.750	1.875	5.125	2.000
-66	4.125	5.125	2.000	--	--
-68	4.250	5.125	2.000	--	--
-70	4.375	5.375	2.000	--	--
-72	4.500	5.375	2.000	--	--
-74	4.625	5.625	2.000	--	--
-76	4.750	5.625	2.000	--	--

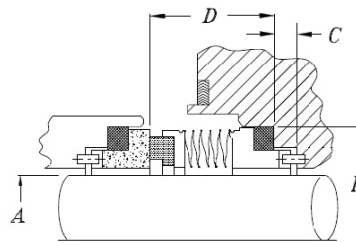
Bellows Size	Shaft OD	Style 64		
		Seal OD		Seal OL
	A	B	C	B
-16X	.875	1.625	.240	1.136
-18	1.000	1.750	.240	1.136
-20X	1.125	1.875	.240	1.136
-22	1.250	2.000	.240	1.136
-24X	1.375	2.125	.240	1.136
-26	1.500	2.375	.251	1.189
-28	1.625	2.375	.251	1.220
-30	1.750	2.500	.251	1.252
-32	1.875	2.625	.251	1.252
-34	2.00	2.750	.251	1.283
-36	2.125	3.000	.300	1.315
-38	2.250	3.125	.300	1.346
-40	2.375	3.250	.300	1.377
-42	2.500	3.375	.300	1.408
-44	2.625	3.500	.341	1.441
-46	2.750	3.750	.225	1.606
-48	2.875	3.875	.225	1.606
-50	3.000	4.000	.225	1.606
-52	3.215	4.125	.225	1.606
-54	3.250	4.250	.225	1.606
-56	3.375	4.375	.225	1.606
-58	3.500	4.500	.271	1.648
-60	3.625	4.625	.271	1.648
-62	3.750	4.750	.271	1.648
-64	3.875	4.875	.271	1.648



**ALL DIMENSIONS IN INCHES**

For additional dimensional information, please request:

- drawing SK1019 for Styles 60 & 65
- drawing SK1001 for Style 62



**ALL DIMENSIONS IN INCHES**

For additional dimensional information, please request:

- drawing SK1003 for Style 64