

GS (General Service) Metal Bellows

Metal Bellows seals can seal with Flexible Graphite instead of a rubber boot or o-ring Elastomers allowing it to be used in higher temperature applications

No Springs to clog.

Metal Bellows seals are a very effective method of maintaining seal face pressure on the seal face.

Metal Bellows seals that do use o-rings only require one static o-ring to seal off any leakage along the shaft in Chemical Service this o-ring can be Aflas, EPDM, Nitrile, Viton, Encapsulated PTFE, Ameri-rez, or PTFE

Because the o-ring is static it will not wear on the shaft. When installed correctly metal bellows seals will provide exceptionally long service. Metal bellows seals are an excellent solution on chemical applications where Kalrez, Chemrez, Viton, FKM, Buna, Aflas or EPDM are not compatible.



For many years an inexpensive form of metal bellows seals have been used very successfully in the waste water / sewage industry and in the agricultural fields pumping irrigation water. These seals were generally made of a formed bellows rather than a welded bellows. Welded bellows seals are much stronger and have superior flex and recovery characteristics which are more ideal to holding seal faces together but cost more to manufacture. Welded metal bellows seals are less prone to metal fatigue and are available in single and double ply.

Seal Dash Number	"A" Shaft size				
.000	B REF	C ±.030	D REF	E REF	
-002	1"	1.562	1.25	1.438	1.235
-16	1.125"	1.687	1.25	1.565	1.362
-18	1.25"	1.812	1.312	1.719	1.516
-22	1.375"	1.937	1.437	1.845	1.641
-24	1.5"	2.062	1.437	1.97	1.716
-26	1.625"	2.187	1.437	2.095	1.841
-28	1.75"	2.312	1.437	2.22	1.966
-30	1.875"	2.437	1.5	2.345	2.09
-32	2"	2.562	1.5	2.471	2.216
-34	2.125"	2.687	1.5	2.595	2.34
-36	2.25"	2.812	1.562	2.721	2.466
-38	2.375"	2.937	1.562	2.846	2.59
-40	2.5"	3.187	1.562	3.096	2.79
-42	2.625"	3.312	1.625	3.221	2.915
-44	2.75"	3.437	1.625	3.347	3.04
-46	2.875"	3.625	1.844	3.502	3.201
-48	3"	3.75	1.844	3.727	3.327
-50	3.125"	3.875	1.909	3.772	3.442
-52	3.25"	4	1.909	3.897	3.567
-54	3.375"	4.125	1.909	4.022	3.629
-56	3.5"	4.25	2.052	4.147	3.817
-58	3.625"	4.375	2.052	4.272	3.942
-60	3.75"	4.5	2.072	4.397	4.067
-62	3.875"	4.625	2.072	4.522	4.192

