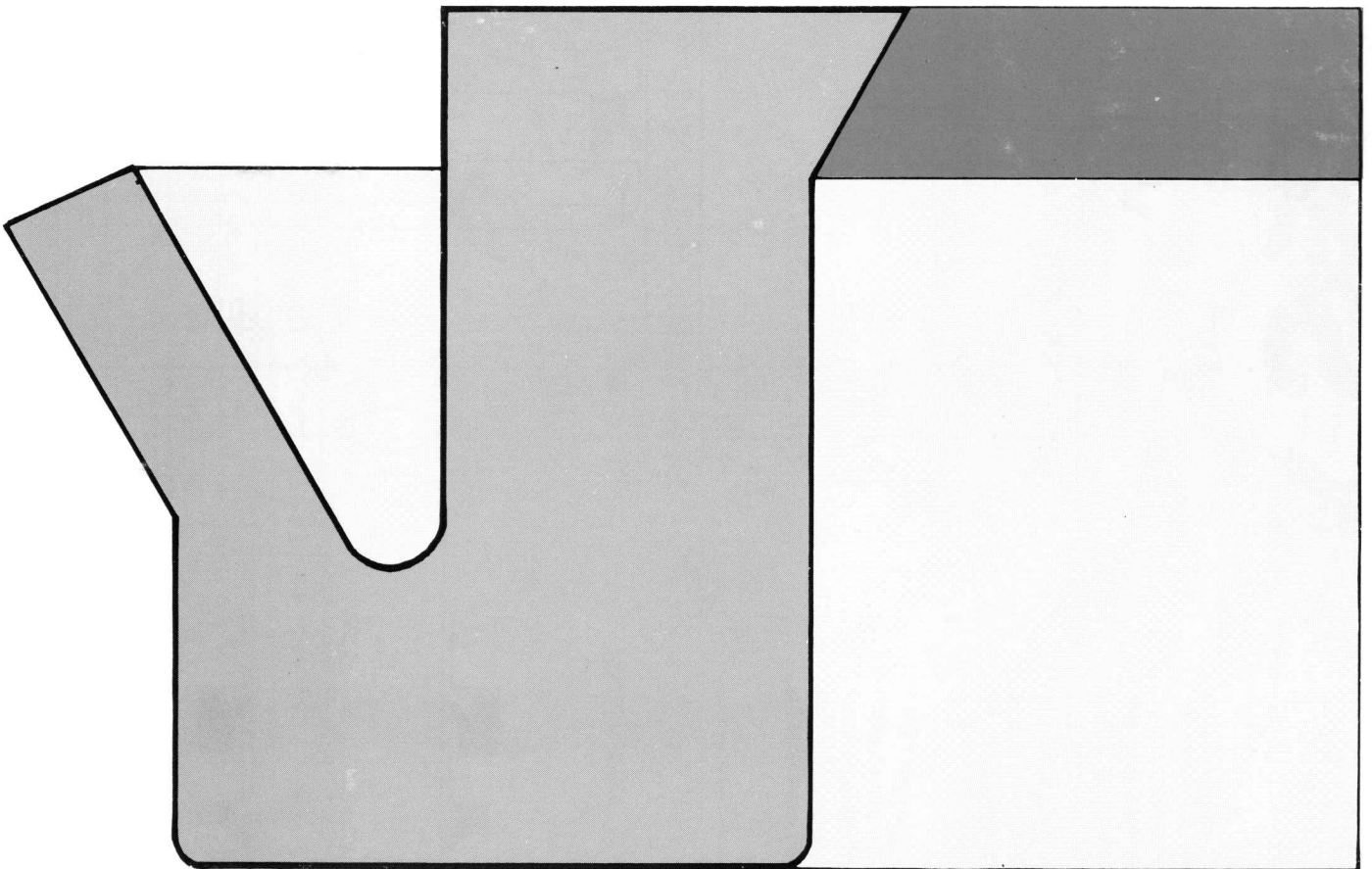


MKS-1000

 MICRODOT/POLYSEAL

**K-Seal**<sup>T.M.</sup>

FOR PNEUMATIC  
APPLICATIONS

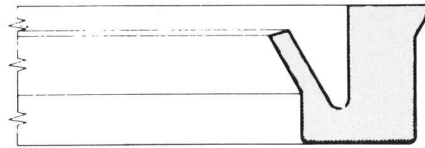


# K-Seal<sup>TM</sup>

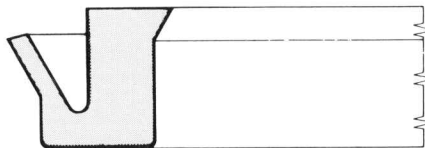
## DESCRIPTION

K-Seal is a light action seal designed primarily for non-lubricated pneumatic systems. Its unique design offers low friction positive sealing and long life generally expected from a polyurethane seal. K-Seal has a long flexible dynamic lip which provides low breakaway friction and steady motion. K-Seal is sensitive to extremely low pressures, and has a heavy static body to insure stability under all conditions.

K-Seal is available in two configurations: type "KR" for rod applications and type "KP" for piston applications (see illustrations). Unlike conventional pneumatic seals, the K-Seal design does not sacrifice ultimate performance by trying to be a combination rod and piston seal.



TYPE "KR" ROD SEAL

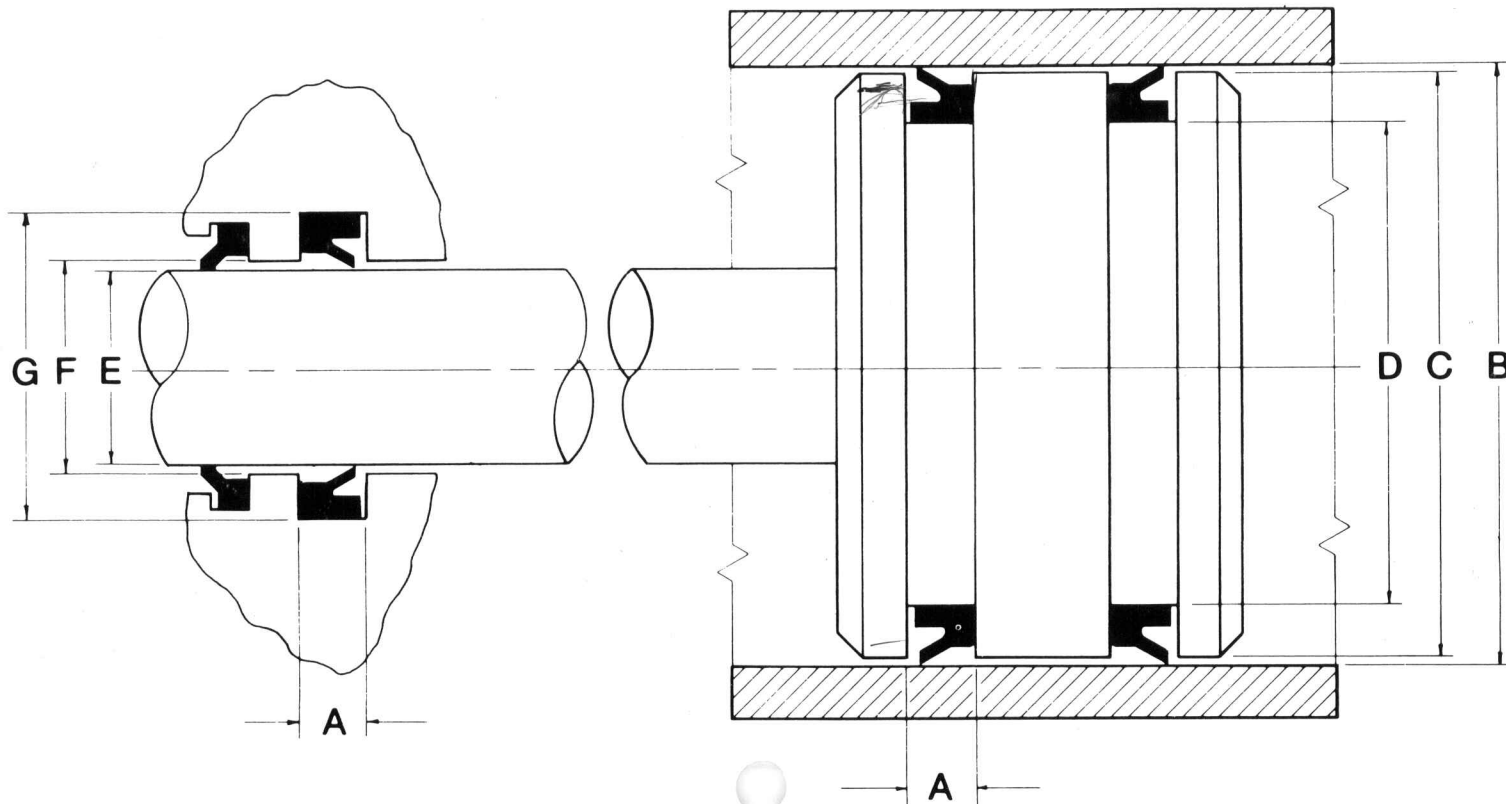


TYPE "KP" PISTON SEAL

## ADVANTAGES

K-Seal offers a positive sealing, low friction retrofit replacement for conventional U-cup type pneumatic seals. Due to Lubrithane,<sup>TM</sup> a specially formulated polyurethane, the K-Seal provides longer life as well as eliminating the need for a back-up ring in the event of increased pressure and clearance. This allows one set of groove dimensions to be used for all conditions. Due to the shape and design of the dynamic lip, the K-Seal exhibits extremely low running friction. This allows it to run smooth and cool in pre or non-lubricated cylinders.\* The heavy static side of the K-Seal retains stability which is usually sacrificed with other seal designs.

\* If permissible, pre-lubrication of metal surfaces will increase both the seal and cylinder life.



PART NUMBER		I.D.	O.D.	DEPTH	A GLAND DEPTH	PISTON APPLICATION			ROD APPLICATION		
PISTON SEAL	ROD SEAL					B BORE DIA.	C PISTON DIA.	D GROOVE DIA.	E ROD DIA.	F THROAT DIA.	G GROOVE DIA.
KP094-00.500	KR094-00.312	5/16	1/2	3/32	.125 ±.010	.500 +.003 -.000	.498 +.000 -.001	.312 +.000 -.001	.312 +.000 -.001	.313 +.002 -.000	.500 +.002 -.000
KP125-00.562	KR125-00.312	5/16	9/16	1/8	.156 ±.010	.562 +.003 -.000	.560 +.000 -.001	.312 +.000 -.001	.312 +.000 -.001	.313 +.002 -.000	.562 +.002 -.000
KP125-00.625	KR125-00.375	3/8	5/8	1/8	.156 ±.010	.625 +.003 -.000	.623 +.000 -.001	.375 +.000 -.001	.375 +.000 -.001	.376 +.002 -.000	.625 +.002 -.000
KP125-00.750	KR125-00.500	1/2	3/4	1/8	.156 ±.010	.750 +.003 -.000	.748 +.000 -.001	.500 +.000 -.001	.500 +.000 -.001	.501 +.002 -.000	.750 +.002 -.000
KP125-00.875	KR125-00.625	5/8	7/8	1/8	.156 ±.010	.875 +.003 -.000	.873 +.000 -.001	.625 +.000 -.001	.625 +.000 -.001	.626 +.002 -.000	.875 +.002 -.000
KP125-01.000	KR125-00.750	3/4	1	1/8	.156 ±.010	1.000 +.003 -.000	.998 +.000 -.001	.750 +.000 -.001	.750 +.000 -.001	.751 +.002 -.000	1.000 +.002 -.000
KP125-01.062	KR125-00.812	13/16	1-1/16	1/8	.156 ±.010	1.062 +.003 -.000	1.060 +.000 -.001	.812 +.000 -.001	.812 +.000 -.001	.813 +.002 -.000	1.062 +.002 -.000
KP125-01.125	KR125-00.875	7/8	1-1/8	1/8	.156 ±.010	1.125 +.003 -.000	1.123 +.000 -.001	.875 +.000 -.001	.875 +.000 -.001	.876 +.002 -.000	1.125 +.002 -.000
KP125-01.187	KR125-00.937	15/16	1-3/16	1/8	.156 ±.010	1.188 +.003 -.000	1.186 +.000 -.001	.938 +.000 -.001	.938 +.000 -.001	.939 +.002 -.000	1.188 +.002 -.000
KP156-01.250	KR156-00.937	15/16	1-1/4	5/32	.188 ±.010	1.250 +.003 -.000	1.248 +.000 -.001	.938 +.000 -.001	.938 +.000 -.001	.939 +.002 -.000	1.250 +.002 -.000
KP125-01.250	KR125-01.000	1	1-1/4	1/8	.156 ±.010	1.250 +.003 -.000	1.248 +.000 -.001	1.000 +.000 -.001	1.000 +.000 -.001	1.001 +.002 -.000	1.250 +.002 -.000
KP156-01.312	KR156-01.000	1	1-5/16	5/32	.188 ±.010	1.312 +.003 -.000	1.310 +.000 -.001	1.000 +.000 -.001	1.000 +.000 -.001	1.001 +.002 -.000	1.312 +.002 -.000
KP156-01.375	KR156-01.062	1-1/16	1-3/8	5/32	.188 ±.010	1.375 +.003 -.000	1.373 +.000 -.001	1.062 +.000 -.001	1.062 +.000 -.001	1.063 +.002 -.000	1.375 +.002 -.000
KP125-01.375	KR125-01.125	1-1/8	1-3/8	1/8	.156 ±.010	1.375 +.003 -.000	1.373 +.000 -.001	1.125 +.000 -.001	1.125 +.000 -.001	1.126 +.002 -.000	1.375 +.002 -.000
KP156-01.500	KR156-01.187	1-3/16	1-1/2	5/32	.188 ±.010	1.500 +.003 -.000	1.498 +.000 -.001	1.188 +.000 -.001	1.188 +.000 -.001	1.189 +.002 -.000	1.500 +.002 -.000
KP156-01.562	KR156-01.150	1-1/4	1-9/16	5/32	.188 ±.010	1.562 +.003 -.000	1.560 +.000 -.001	1.250 +.000 -.001	1.250 +.000 -.001	1.251 +.002 -.000	1.562 +.002 -.000
KP156-01.625	KR156-01.312	1-5/16	1-5/8	5/32	.188 ±.010	1.625 +.003 -.000	1.623 +.000 -.001	1.312 +.000 -.001	1.312 +.000 -.001	1.313 +.002 -.000	1.625 +.002 -.000
KP156-01.687	KR156-01.375	1-3/8	1-11/16	5/32	.188 ±.010	1.688 +.003 -.000	1.686 +.000 -.001	1.375 +.000 -.001	1.375 +.000 -.001	1.376 +.002 -.000	1.688 +.002 -.000
KP187-01.750	KR187-01.375	1-3/8	1-3/4	3/16	.219 ±.010	1.750 +.003 -.000	1.748 +.000 -.001	1.375 +.000 -.001	1.375 +.000 -.001	1.376 +.002 -.000	1.750 +.002 -.000
KP187-01.875	KR187-01.500	1-1/2	1-7/8	3/16	.219 ±.010	1.875 +.003 -.000	1.873 +.000 -.002	1.500 +.000 -.001	1.500 +.000 -.001	1.501 +.002 -.000	1.875 +.002 -.000
KP187-02.000	KR187-01.625	1-5/8	2	3/16	.219 ±.010	2.000 +.003 -.000	1.998 +.000 -.002	1.625 +.000 -.002	1.625 +.000 -.001	1.626 +.002 -.000	2.000 +.002 -.000
KP187-02.125	KR187-01.750	1-3/4	2-1/8	3/16	.219 ±.010	2.125 +.003 -.000	2.123 +.000 -.002	1.750 +.000 -.002	1.750 +.000 -.001	1.751 +.002 -.000	2.125 +.002 -.000
KP187-02.250	KR187-01.875	1-7/8	2-1/4	3/16	.219 ±.010	2.250 +.003 -.000	2.248 +.000 -.002	1.875 +.000 -.002	1.875 +.000 -.001	1.876 +.002 -.000	2.250 +.002 -.000
KP187-02.375	KR187-02.000	2	2-3/8	3/16	.219 ±.010	2.375 +.003 -.000	2.373 +.000 -.002	1.875 +.000 -.002	2.000 +.000 -.001	2.001 +.002 -.000	2.375 +.002 -.000
KP187-02.500	KR187-02.125	2-1/8	2-1/2	3/16	.219 ±.010	2.500 +.004 -.000	2.498 +.000 -.002	2.125 +.000 -.002	2.125 +.000 -.001	2.126 +.002 -.000	2.500 +.002 -.000

KP187-02.625	KR187-02.250	2-1/4	2-5/8	3/16	.219 ± .010	2.625 +.004 -.000	2.623 +.000 -.002	2.250 +.000 -.002	2.250 +.000 -.001	2.251 +.000 -.000	2.625 +.000 -.000
KP187-02.750	KR187-02.375	2-3/8	2-3/4	3/16	.219 ± .010	2.750 +.004 -.000	2.748 +.000 -.002	2.375 +.000 -.002	2.375 +.000 -.001	2.376 +.002 -.000	2.750 +.002 -.000
KP187-02.875	KR187-02.500	2-1/2	2-7/8	3/16	.219 ± .010	2.875 +.004 -.000	2.873 +.000 -.002	2.500 +.000 -.003	2.500 +.000 -.001	2.501 +.002 -.000	2.875 +.003 -.000
KP218-02.000	KR218-02.500	2-1/2	2	7/32	.250 ± .010	2.938 +.004 -.000	2.936 +.000 -.002	2.500 +.000 -.003	2.500 +.000 -.001	2.501 +.002 -.000	2.938 +.003 -.000
KP218-03.000	KR218-02.562	2-9/16	3	7/32	.250 ± .010	3.000 +.004 -.000	2.998 +.000 -.002	2.562 +.000 -.003	2.562 +.000 -.002	2.563 +.003 -.000	3.000 +.003 -.000
KP187-03.125	KR187-02.750	2-3/4	3-1/8	3/16	.219 ± .010	3.125 +.004 -.000	3.123 +.000 -.002	2.750 +.000 -.003	2.750 +.000 -.002	2.751 +.003 -.000	3.125 +.003 -.000
KP218-03.187	KR218-02.750	2-3/4	3-3/16	7/32	.250 ± .010	3.188 +.004 -.000	3.186 +.000 -.002	2.750 +.000 -.003	2.750 +.000 -.002	2.751 +.003 -.000	3.188 +.003 -.000
KP218-03.250	KR218-02.812	2-13/16	3-1/4	7/32	.250 ± .010	3.250 +.004 -.000	3.248 +.000 -.002	2.812 +.000 -.003	2.812 +.000 -.002	2.813 +.003 -.000	3.250 +.003 -.000
KP187-03.375	KR187-03.000	3	3-3/8	3/16	.219 ± .010	3.375 +.004 -.000	3.373 +.000 -.002	3.000 +.000 -.003	3.000 +.000 -.002	3.001 +.003 -.000	3.375 +.003 -.000
KP218-03.437	KR218-03.000	3	3-7/16	7/32	.250 ± .010	3.437 +.004 -.000	3.435 +.000 -.002	3.000 +.000 -.003	3.000 +.000 -.002	3.001 +.003 -.000	3.437 +.003 -.000
KP218-03.500	KR218-03.062	3-1/16	3-1/2	7/32	.250 ± .010	3.500 +.004 -.000	3.498 +.000 -.002	3.062 +.000 -.003	3.062 +.000 -.002	3.063 +.003 -.000	3.500 +.003 -.000
KP250-04.000	KR250-03.500	3-1/2	4	1/4	2.81 ± .010	4.000 +.004 -.000	3.998 +.000 -.002	3.500 +.000 -.003	3.500 +.000 -.002	3.501 +.003 -.000	4.000 +.003 -.000
KP250-04.250	KR250-03.750	3-3/4	4-1/4	1/4	.281 ± .010	4.250 +.004 -.000	4.248 +.000 -.002	3.750 +.000 -.003	3.750 +.000 -.002	3.751 +.003 -.000	4.250 +.003 -.000
KP250-04.500	KR250-04.000	4	4-1/2	1/4	.281 ± .010	4.500 +.004 -.000	4.498 +.000 -.002	4.000 +.000 -.003	4.000 +.000 -.002	4.001 +.003 -.000	4.500 +.003 -.000
KP250-04.750	KR250-04.250	4-1/4	4-3/4	1/4	.281 ± .010	4.750 +.004 -.000	4.748 +.000 -.002	4.250 +.000 -.003	4.250 +.000 -.002	4.251 +.003 -.000	4.750 +.003 -.000
KP250-05.000	KR250-04.500	4-1/2	5	1/4	.281 ± .010	5.000 +.004 -.000	4.998 +.000 -.002	4.500 +.000 -.003	4.500 +.000 -.002	4.501 +.003 -.000	5.000 +.003 -.000
KP250-05.250	KR250-04.750	4-3/4	5-1/4	1/4	.281 ± .010	5.250 +.004 -.000	5.248 +.000 -.002	4.750 +.000 -.003	4.750 +.000 -.002	4.751 +.003 -.000	5.250 +.003 -.000
KP250-05.500	KR250-05.000	5	5-1/2	1/4	.312 ± .010	5.500 +.004 -.000	5.498 +.000 -.003	5.000 +.000 -.003	5.000 +.000 -.002	5.001 +.003 -.000	5.500 +.003 -.000
KP312-05.750	KR312-05.125	5-1/8	5-3/4	5/16	.344 ± .010	5.750 +.004 -.000	5.748 +.000 -.003	5.125 +.000 -.003	5.125 +.000 -.002	5.126 +.003 -.000	5.750 +.003 -.000
KP312-06.000	KR312-05.375	5-3/8	6	5/16	.344 ± .010	6.000 +.004 -.000	5.998 +.000 -.003	5.375 +.000 -.003	5.375 +.000 -.002	5.376 +.003 -.000	6.000 +.003 -.000