











PRODUCT GUIDELINES (Hydraulic and Pneumatic Applications*)

Motion	Speed	Types	Series	Product	Profile Description	Attributes					Friction			Wear			#	
						mold	**mach	hyd.	pne.	split	L	M	H	L	M	H		
RECIPROCATING	to 15 m/sec (3000 ft/min)	Rod seals, Compression, Cap seals	RCCS		Double acting, dual component seal		√	√	√		√				√		25	
			PCCS		Double acting, dual component seal		√	√	√		√					√		25
	to 1 m/s (185 ft/min)	Wipers	W5K, W21K		Positive angled profile with flange	√	√	√	√	√	√				√		14	
			CW21K		Positive angled profile with press fit can		√	√	√			√				√		15
		Rod Seals, U-cups	R10K, R22KN		Single acting, positive angled profile	√	√	√	√		√					√		16
			R22K		Single acting, negative angled profile		√	√				√					√	17
			R22KE		Single acting, negative angled profile with O-ring loader		√	√					√				√	18
			R23K		Single acting, radiused sealing surface for pneumatic applications		√		√		√				√			19
			R6K		Single acting, positive angled profile for worn equipment	√		√					√				√	20
			R8K, R27K		Single acting, positive angled profile, dual stacked set	√	√	√		√		√					√	22
		Rod seals, Stacked sets	R11K		Single acting, negative angled profile, dual stacked set	√	√	√		√		√				√		21
			R600		Single acting, positive angled, stacked set for worn equipment	√		√		√			√				√	23
		Piston seals, U-cups	P10K, P22KN		Single acting, positive angled profile	√		√	√		√				√			16
			P22K		Single acting, negative angled profile		√	√				√					√	17
			P22KE		Single acting, negative angled profile with O-ring loader		√	√					√				√	18
			P23K		Single acting, radiused sealing surface for pneumatic applications		√		√		√				√			19
		Piston seals, Stacked sets	P8K, P27K		Single acting, positive angled profile, multiple stacked set	√		√		√			√				√	22
		Piston cup	P7K		Single acting, positive angled piston cup	√	√	√	√			√				√		26
		Replaceable bearings	16K, 17K		Metric and English size bearing band strips for large diameters	√		√	√	√	√	√				√		29
			18K, 19K		Metric and English size bearing bands	√		√	√	√	√	√				√		30
			WR		Custom wear rings for bearing support		√	√	√	√	√	√				√		31
		Anti-extrusion rings	9K		Backup rings or anti-extrusion rings		√	√	√	√	√	√				√		28
	to 0.25 m/s (50 ft/min)	Compression seals, (rod & piston)	R20K, P20K		Double acting, negative angled profile, low speed hydraulic applications		√	√				√				√	24	
	Static	Face seals	R20KDR, P20KDR		Static seal for O-ring upgrades		√	√	√		√				√		27	

PRODUCT GUIDELINES (Rotary Applications*)

Motion	Speed	Types	Series	Product	Profile Description	Attributes					Friction			Wear			#
						mold	**mach	hyd.	pne.	split	L	M	H	L	M	H	
ROTARY	to 20 m/s (4000 ft/min)	Custom lip seals	400 series		Single rotary seals for highly dynamic applications		√	√	√		√			√			43
		Continuous rotary lip seals	30K		Single acting, low pressure seal for bearing & gearbox protection		√	√	√		√				√		
	to 12.5 m/s (2500 ft/min)	Split rotary lip seals	33K		Single acting, non-pressure split seal for bearing & gearbox protection		√			√	√				√		37
	to 6 m/s (1200 ft/min)	Elliptical coil spring energized	200 Series		Single acting with elliptical spring for large tolerances or miniature designs		√	√	√			√				√	41
	to 5 m/s (1000 ft/min)	Cantilever coil spring energized	100 Series		Single acting with cantilever spring for highly dynamic applications		√	√	√			√				√	40
	to 2.5 m/s (500 ft/min)	Helical coil spring energized	300 Series		Single acting with helical spring for static or slow speeds		√	√	√				√				42
		Stacked sets	500 Series		Single acting, stacked sets		√					√				√	44
	to 0.5 m/s (100 ft/min)	Wipers	W5K, W21K		Positive angled profile with flange, slow rotary	√	√	√	√	√		√			√		14
		Rod & Piston seals	R10K, P10K, R22KN, P22KN		Single acting, positive angled profile, slow rotary	√	√	√	√			√			√		16

*Spring energized seals are available for reciprocating applications. Please contact factory.

**Machined product does not require tooling.