

PISTON SEALS

Profile	Type	Description	Standard Material	Pressure (Bar)	Temp. (°C)	Surface Speed (m/sec)
	PS01	Asymmetrical single acting seal with interference fit on the ID. Sealing lip shorter than static lip to avoid drag pressure. Excellent static and dynamic sealing. For lower speeds the sealing lips should be shorter/stiffer.	PU NBR FPM	400 160 160	-30 to 105 -25 to 100 -20 to 210	0.5
	PS01A	Same as profile PS01 but with a wider groove. This wider groove gives the seal softer lips compared with the PS01.	PU NBR FPM	160 160 160	-30 to 105 -25 to 100 -20 to 210	0.5
	PS01B	Asymmetrical single acting seal with interference fit on the ID. Sealing lip shorter than static lip to avoid drag pressure. Sharp lips on ID and OD. Good static and dynamic sealing. Good in low pressure applications. Out of date profile only used in old machinery.	PU NBR FPM	400 160 160	-30 to 105 -25 to 100 -20 to 210	0.5
	PS02	Same as profile RS02 but utilises an angled back up ring instead. Used in short housings.	PU/POM NBR/POM FPM/PTFE	700 250 250	-30 to 100 -25 to 100 -20 to 210	0.5
	PS02A	Same as profile PS01 but with added back up ring to prevent/resist extrusion.	PU/POM NBR/POM FPM/PTFE	700 250 250	-30 to 100 -25 to 100 -20 to 210	0.5
	PS03	O-Ring activated asymmetrical piston seal. Interference fit on ID. Especially suitable for short stroke applications.	PU/NBR	400 160 160	-25 to 100	0.5
	PS04	As profile. PS03 but with added back up ring to prevent/ resist extrusion.	PU/NBR/POM	700 250 250	-25 to 100	0.5
	PS05	Asymmetrical single acting Piston seal for pneumatic applications with interference fit on the ID. Special design lip to retain lubrication film and prevent dry running.	PU NBR	25	-30 to 105 -25 to 100	1
	PS08	O-Ring activated symmetrical double acting piston seal. Excellent sealing performance in both low and high speeds. Excellent gap extrusion resistance.	PU-D57/NBR PTFE/NBR	250 400	-25 to 100	1 15
	PS08A	Same as profile. PS08 but designed with two external sealing edges to reduce blow-by-effect.	PU-D57/NBR PTFE/NBR	250 400	-25 to 100	1 15
	PS08B	O-Ring activated asymmetrical single acting piston seal. Excellent sealing performance in both slow and fast speeds. Excellent gap extrusion resistance.	PU-D57/NBR PTFE/NBR	250 400	-25 to 100	1 10
	PS08C	O-Ring activated symmetrical double acting piston seal. The X-ring on the OD of the sleeve offers additional sealing (especially good for holding positions). Excellent gap extrusion resistance.	PTFE/NBR	400	-25 to 100	2
	PS08D	As per profile PS08C but the two O-Rings offer improved pressure distribution.	PTFE/NBR	400	-25 to 100	3
	PS08E	O-Ring activated symmetrical double acting piston seal. Excellent sealing performance in both low and high speeds. Excellent gap extrusion resistance.	PU-D57/NBR PTFE/NBR	250 400	-25 to 100	1 10
	PS08F	O-Ring activated symmetrical double acting piston seal. Excellent sealing performance in both low and high speeds. Excellent gap extrusion resistance.	PU-D57/NBR	250 400	-25 to 100	1
	PS81	Symmetrical double acting piston seal. The special profile energiser offers less energiser movement, so improved wear resistance is achieved. Excellent sealing performance in low and high speeds.	PU-D57/NBR PTFE/NBR	250 400	-25 to 100	1 10
	PS09	Double acting piston seal comprising one rubber energiser, one sealing element & two guide rings. Good performance in both static & dynamic sealing. High frictional force.	PU/NBR/POM	400	-25 to 100	0.5
	PS09A	Double acting piston seal comprising one rubber energiser, one sealing element & two guide rings. Good performance in both static & dynamic sealing.	PTFE/NBR/ POM	400 160 160	-25 to 100	1

Profile	Type	Description	Standard Material	Pressure (Bar)	Temp. (°C)	Surface Speed (m/sec)
	PS16	Single acting piston seal known as the 'cup' seal. Useable in long stroke lengths. Long sealing lip allows for radial inaccuracy.	NBR	160	-25 to 100	0.5
	PS16A	Single acting piston seal known as the 'cup' seal. Useable in long stroke lengths. Long sealing lip allows for radial inaccuracy.	NBR	160	-25 to 100	0.5
	PS17	Double acting piston seal comprising one sealing element & two guide rings. Good performance in both static & dynamic sealing. High frictional force.	PU/POM NBR/POM	400 250	-25 to 100	0.5
	PS17A	Double acting piston seal comprising one sealing element & two guide rings. Good performance in both static & dynamic sealing. High frictional force.	PU/POM NBR/POM	400 250	-25 to 100	0.5
	PS17B	Double acting piston seal comprising one sealing element & two guide rings. Added benefit of two sealing edges. Good performance in both static & dynamic sealing. High frictional force.	PU/POM NBR/POM	400 250	-25 to 100	0.5
	PS19	Asymmetrical single acting piston seal. Preloaded with a V-Spring. Excellent static & dynamic sealing performance. Low friction for dry running conditions	PTFE-virgin/ V-Spring PTFE-filled/ V-Spring	200 400	-200 to 260	15
	PS19A	As per profile PS19 but with clamping flange.	PTFE-virgin/ V-Spring PTFE-filled/ V-Spring	200 400	-200 to 260	15
	PS20	Space saving double acting piston seal suitable for standard O-Ring grooves. Comprises 1 rubber sealing element with 2 integrated back up rings to resist/prevent extrusion. Interference fit on OD prevents twisting.	NBR/POM	700	-25 to 100	0.5
	PS23	Double acting piston seal with interference fit on ID. Consists of one sealing element, one energiser & two back-up rings. Good static & dynamic sealing. High frictional force.	PU/NBR/POM	400	-25 to 100	0.5
	PS35	Asymmetrical double acting compact piston seal. Excellent static & dynamic sealing as well as excellent sealing performance at low pressure.	PU	400	-30 to 105	0.4