

DESCRIPTION

Double acting piston seal

MATERIAL ON DYNAMIC SURFACE

Type: Polytetrafluoroethylene

Designation: SEALFLON

⇒ it can be provided with different fillers according to applications

MATERIAL ON STATIC SURFACE

Type: Nitril Rubber NBR

Designation: RUBSEAL 70

Hardness: 70 °ShA

⇒ it can be provided with different materials according to working conditions

MAIN FEATURES

The piston seal type YP, mainly suitable for low pressure conditions or pneumatic field, is composed of:

- A dynamic seal element which assures exceptional low friction and high speed performance, high compatibility with nearly all media due to the chemical resistance which exceeds that of all other thermoplastics and elastomers.
 - A standard size O-Ring with low permanent deformation as energizing component on the static side
- Low static and dynamic friction, also without lubrication
 - No tendency of stick-slip
 - Space-saving construction and simple groove design
 - Good resistance against extrusion
 - High compatibility with nearly all fluids (with the right choice of O-Ring material)
 - High speed allowed
 - High temperature resistance

FIELD OF APPLICATION

Pressure	≤ 210 bar
Speed	≤ 4 m/s
Temperature	-30°C ÷ +130°C (con OR in NBR) -30°C ÷ +200°C (con OR in FKM)
Fluids	High compatibility with nearly all fluids (with the right choice of O-Ring material)

SURFACE ROUGHNESS

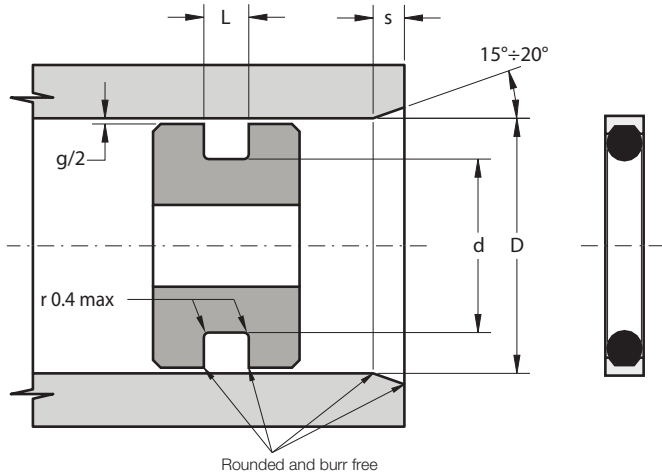
Dynamic surface	Ra ≤ 0.3 µm	Rt ≤ 2.5 µm
Static surface	Ra ≤ 1.6 µm	Rt ≤ 6.3 µm

GAP DIMENSION “g”

The largest gap dimension appearing in operation on the non-pressurised side must comply with the ISO H8/f7:

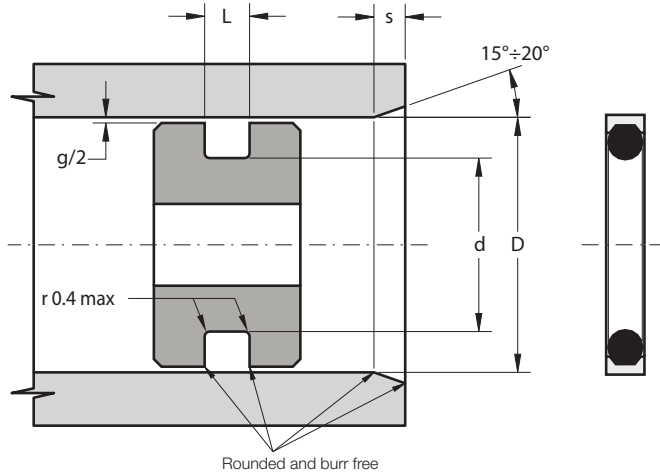
LEAD-IN CHAMFERS		LEAD-IN CHAMFERS	
L	s	L	s
2.5	2.0	7.0	4.0
3.5	2.5	9.5	5.0
4.5	3.0		

- to avoid damaging the seal during installation, housing must have rounded chamfers. Sharp edges and burrs within the installation area of the seal must be removed



Part.	D ^{H8}	d ^{h9}	L ^{+0.2}	OR
YP 004-6	6	2.8	2.5	004
YP 006-7	7	3.7	2.5	006
YP 008-8	8	4.7	2.5	008
YP 009-9	9	5.7	2.5	009
YP 010-10	10	6.8	2.5	010
YP 011-11	11	7.6	2.5	011
YP 012-13	13	9.7	2.5	012
YP 110-15	15	10.1	3.5	110
YP 111-16	16	10.9	3.5	111
YP 112-18	18	13.1	3.5	112
YP 113-20	20	14.7	3.5	113
YP 114-21	21	15.9	3.5	114
YP 115-22	22	16.6	3.5	115
YP 116-25	25	19.8	3.5	116
YP 210-26	26	19.1	4.5	210
YP 211-28	28	21.2	4.5	211
YP 212-29	29	22.0	4.5	212
YP 213-30	30	22.9	4.5	213
YP 214-32	32	25.0	4.5	214
YP 215-34	34	27.0	4.5	215
YP 216-35	35	28.0	4.5	216
YP 217-37	37	30.0	4.5	217
YP 218-38	38	30.9	4.5	218

Part.	D ^{H8}	d ^{h9}	L ^{+0.2}	OR
YP 219-40	40	32.9	4.5	219
YP 220-42	42	35.0	4.5	220
YP 221-43	43	35.9	4.5	221
YP 222-45	45	37.9	4.5	222
YP 325-50	50	39.6	7.0	325
YP 326-52	52	41.8	7.0	326
YP 327-55	55	44.7	7.0	327
YP 328-58	58	47.7	7.0	328
YP 329-61	61	50.5	7.0	329
YP 330-65	65	54.7	7.0	330
YP 331-68	68	57.7	7.0	331
YP 332-70	70	59.5	7.0	332
YP 333-75	75	64.5	7.0	333
YP 334-77	77	66.6	7.0	334
YP 335-80	80	69.6	7.0	335
YP 336-85	85	74.5	7.0	336
YP 337-86	86	75.5	7.0	337
YP 338-90	90	79.5	7.0	338
YP 339-92	92	81.5	7.0	339
YP 340-95	95	84.5	7.0	340
YP 341-100	100	89.6	7.0	341
YP 342-102	102	91.5	7.0	342
YP 343-105	105	94.5	7.0	343
YP 344-108	108	97.5	7.0	344
YP 345-111	111	100.6	7.0	345
YP 346-115	115	104.5	7.0	346
YP 347-118	118	107.5	7.0	347
YP 348-121	121	110.5	7.0	348
YP 349-125	125	114.5	7.0	349
YP 425-127	127	113.3	9.5	425
YP 426-130	130	116.3	9.5	426
YP 427-135	135	121.3	9.5	427
YP 428-137	137	123.3	9.5	428
YP 429-140	140	126.3	9.5	429
YP 430-143	143	129.3	9.5	430
YP 431-146	146	132.3	9.5	431
YP 432-150	150	136.3	9.5	432
YP 433-153	153	139.3	9.5	433
YP 434-156	156	142.3	9.5	434
YP 435-160	160	146.3	9.5	435



Part.	D ^{H8}	d ^{h9}	L ^{+0.2}	OR
YP 436-162	162	148.3	9.5	436
YP 437-165	165	151.3	9.5	437
YP 438-172	172	158.3	9.5	438
YP 439-178	178	164.3	9.5	439
YP 440-184	184	170.3	9.5	440
YP 441-191	191	177.3	9.5	441
YP 442-197	197	183.3	9.5	442
YP 443-203	203	189.3	9.5	443
YP 444-210	210	196.3	9.5	444
YP 445-216	216	202.3	9.5	445
YP 674-222	222	208.3	9.5	674
YP 446-230	230	216.3	9.5	446
YP 676-235	235	221.3	9.5	676
YP 447-242	242	228.3	9.5	447
YP 678-250	250	236.3	9.5	678
YP 448-255	255	241.3	9.5	448
YP 680-260	260	246.3	9.5	680
YP 449-270	270	256.3	9.5	449
YP 682-275	275	261.3	9.5	682
YP 450-280	280	266.3	9.5	450
YP 684-286	286	272.3	9.5	684
YP 451-295	295	281.3	9.5	451
YP 686-300	300	286.3	9.5	686

Part.	D ^{H8}	d ^{h9}	L ^{+0.2}	OR
YP 452-305	305	291.3	9.5	452
YP 688-315	315	301.3	9.5	688
YP 453-320	320	306.3	9.5	453
YP 454-330	330	316.3	9.5	454
YP 455-345	345	331.3	9.5	455
YP 456-355	355	341.3	9.5	456
YP 457-370	370	356.3	9.5	457
YP 458-380	380	366.3	9.5	458
YP 459-395	395	381.3	9.5	459
YP 460-410	410	396.3	9.5	460

Other sizes not present in the above table can be provided in according to the following scheme: