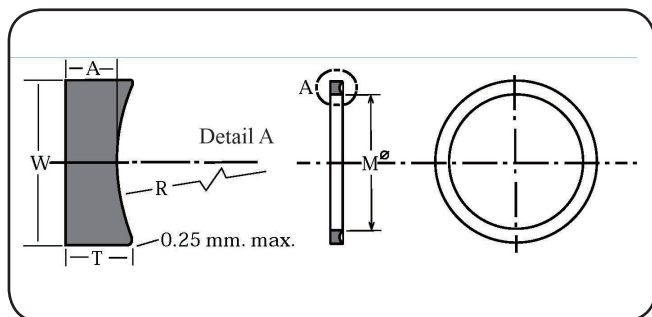


PB SUPPORT RINGS



MAIN FEATURES

The counterpressure ARO-DUROS PB are mounted together with the O-rings. However, these are not seals. O-rings are mounted with diametrically deformed cross-sections due to the force exerted by the contact surfaces. Due to the elastic reaction of the deformed seal, it elastically fills the space and roughness of the contact surfaces, achieving a perfect closure (Fig 1). When the system is activated and pressure is applied, the O-ring moves into the gap and is deformed (Fig. 2), thus achieving a more effective elastic closure. However, when certain pressure values are met, the seal reaches its limits and begins to extrude (Fig 3). For higher pressure values, the seal gets pushed into the natural clearance between both surfaces and when the pressure stops or changes direction and the work cycle is repeated, the seal is pinched and damaged (Fig 4), losing the closure effectiveness and introducing rubber particles into the hydraulic circuit with the possibility of causing serious problems in the control elements of the system.

PB

DESCRIPTION

Support rings for O-Ring

DYNAMIC SURFACE MATERIAL

NBR

OPERATING CONDITIONS

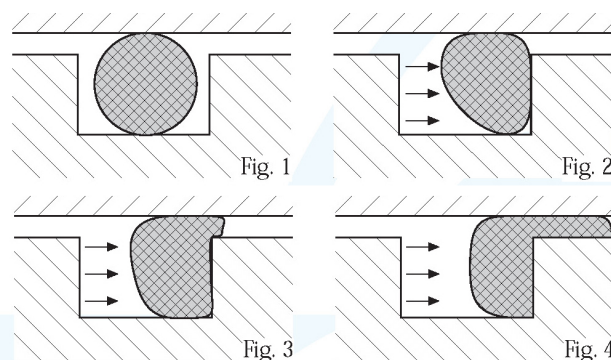
Hardness: 90 Sh. D

Temperature range: -30°C + 120°C.

MAIN FEATURES

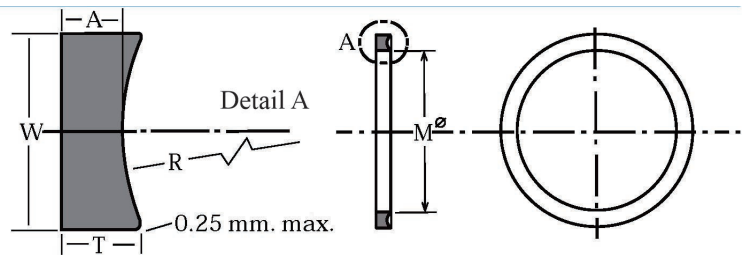
This seal extrusion phenomenon depends on the pressure values, the hardness of the seal and the clearance between contact surfaces. The extrusion phenomenon is avoided by using counterpressure ARO-DUROS PB. As they are elastic elements of higher hardness, the phenomenon disappears for the same pressure and clearance values.

ARO-DUROS PB are continuous profiles, free of seams and burrs, have tight finishing tolerances and can be stretched when assembled.



	THICKNESS	W	T
O-Ring	1.78	1.35	1.40
O-Ring	2.62	2.18	1.40
O-Ring	3.53	3.00	1.40
O-Ring	5.33	4.65	1.90
O-Ring	6.99	5.99	2.80

PB



Reference	Size	O - Ring
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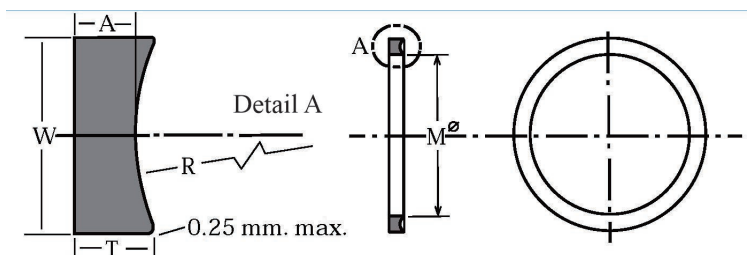
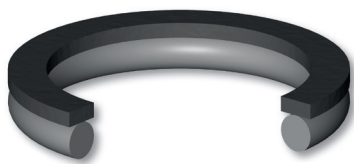
PB 4	1.78	x 1.78
PB 5	2.57	x 1.78
PB 6	2.90	x 1.78
PB 7	3.68	x 1.78
PB 8	4.48	x 1.78
PB 9	5.28	x 1.78
PB 10	6.07	x 1.78
PB 11	7.66	x 1.78
PB 12	9.25	x 1.78
PB 13	10.82	x 1.78
PB 14	12.42	x 1.78
PB 15	14.00	x 1.78
PB 16	15.60	x 1.78
PB 17	17.17	x 1.78
PB 18	18.77	x 1.78
PB 19	20.35	x 1.78
PB 20	21.95	x 1.78
PB 21	23.52	x 1.78
PB 22	25.12	x 1.78
PB 23	26.70	x 1.78
PB 24	28.30	x 1.78
PB 25	29.87	x 1.78
PB 26	31.47	x 1.78
PB 27	33.05	x 1.78
PB 28	34.65	x 1.78
PB 29	37.82	x 1.78
PB 30	41.00	x 1.78
PB 31	44.17	x 1.78
PB 32	47.35	x 1.78
PB 33	50.52	x 1.78
PB 34	53.70	x 1.78
PB 35	56.87	x 1.78
PB 36	60.05	x 1.78
PB 37	63.22	x 1.78
PB 38	66.40	x 1.78
PB 39	69.57	x 1.78
PB 40	72.75	x 1.78
PB 41	75.92	x 1.78
PB 42	82.27	x 1.78
PB 43	88.62	x 1.78
PB 44	94.97	x 1.78

Reference	Size	O - Ring
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PB 45	101.32	x 1.78
PB 46	107.67	x 1.78
PB 47	114.02	x 1.78
PB 48	120.37	x 1.78
PB 49	126.72	x 1.78
PB 50	133.07	x 1.78
PB 106	4.42	x 2.62
PB 107	5.23	x 2.62
PB 108	6.02	x 2.62
PB 109	7.60	x 2.62
PB 110	9.19	x 2.62
PB 156	10.62	x 2.62
PB 111	10.78	x 2.62
PB 112	12.37	x 2.62
PB 113	13.95	x 2.62
PB 114	15.54	x 2.62
PB 115	17.13	x 2.62
PB 116	18.72	x 2.62
PB 117	20.29	x 2.62
PB 118	21.89	x 2.62
PB 119	23.47	x 2.62
PB 120	25.07	x 2.62
PB 121	26.64	x 2.62
PB 122	28.25	x 2.62
PB 123	29.82	x 2.62
PB 124	31.42	x 2.62
PB 125	32.99	x 2.62
PB 126	34.59	x 2.62
PB 127	36.17	x 2.62
PB 128	37.77	x 2.62
PB 129	39.34	x 2.62
PB 130	40.94	x 2.62
PB 131	42.52	x 2.62
PB 132	44.12	x 2.62
PB 133	45.69	x 2.62
PB 134	47.29	x 2.62
PB 135	48.90	x 2.62
PB 136	50.47	x 2.62
PB 137	52.07	x 2.62
PB 138	53.65	x 2.62

Reference	Size	O - Ring
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PB 139	55.25	x 2.62
PB 140	56.82	x 2.62
PB 141	58.42	x 2.62
PB 142	60.00	x 2.62
PB 143	61.60	x 2.62
PB 144	63.17	x 2.62
PB 145	64.77	x 2.62
PB 146	66.35	x 2.62
PB 147	67.95	x 2.62
PB 148	69.52	x 2.62
PB 149	71.12	x 2.62
PB 150	72.69	x 2.62
PB 151	75.87	x 2.62
PB 152	82.22	x 2.62
PB 153	88.57	x 2.62
PB 154	94.93	x 2.62
PB 155	101.27	x 2.62
PB 157	113.97	x 2.62
PB 158	120.32	x 2.62
PB 159	126.67	x 2.62
PB 160	133.02	x 2.62
PB 161	139.37	x 2.62
PB 162	145.72	x 2.62
PB 163	152.07	x 2.62
PB 164	158.42	x 2.62
PB 165	164.77	x 2.62
PB 166	171.13	x 2.62
PB 167	177.47	x 2.62
PB 168	183.82	x 2.62
PB 169	190.17	x 2.62
PB 170	196.52	x 2.62
PB 171	202.87	x 2.62
PB 172	209.22	x 2.62
PB 173	215.57	x 2.62
PB 174	221.93	x 2.62
PB 175	228.28	x 2.62
PB 176	234.63	x 2.62
PB 177	240.98	x 2.62
PB 178	247.33	x 2.62
PB 210	18.64	x 3.53

PB

Reference	Size O - Ring
PB 211	20.22 x 3.53
PB 212	21.82 x 3.53
PB 213	23.40 x 3.53
PB 214	24.99 x 3.53
PB 215	26.58 x 3.53
PB 216	28.17 x 3.53
PB 217	29.75 x 3.53
PB 218	31.34 x 3.53
PB 219	32.92 x 3.53
PB 220	34.52 x 3.53
PB 221	36.10 x 3.53
PB 222	37.69 x 3.53
PB 223	40.87 x 3.53
PB 224	44.04 x 3.53
PB 225	47.22 x 3.53
PB 226	50.40 x 3.53
PB 227	53.57 x 3.53
PB 228	56.74 x 3.53
PB 229	59.92 x 3.53
PB 230	63.09 x 3.53
PB 231	66.27 x 3.53
PB 232	69.44 x 3.53
PB 233	72.62 x 3.53
PB 234	75.80 x 3.53
PB 235	78.97 x 3.53
PB 236	82.14 x 3.53
PB 237	85.32 x 3.53
PB 238	88.50 x 3.53
PB 239	91.67 x 3.53
PB 240	94.84 x 3.53
PB 241	98.02 x 3.53
PB 242	101.20 x 3.53
PB 243	104.37 x 3.53
PB 244	107.54 x 3.53
PB 245	110.72 x 3.53
PB 246	113.90 x 3.53
PB 247	117.07 x 3.53
PB 248	120.25 x 3.53
PB 249	123.42 x 3.53
PB 250	126.60 x 3.53
PB 251	129.77 x 3.53

Reference	Size O - Ring
PB 252	132.94 x 3.53
PB 253	136.12 x 3.53
PB 254	139.29 x 3.53
PB 255	142.47 x 3.53
PB 256	145.65 x 3.53
PB 257	148.82 x 3.53
PB 258	151.99 x 3.53
PB 259	158.34 x 3.53
PB 260	164.69 x 3.53
PB 261	171.04 x 3.53
PB 262	177.39 x 3.53
PB 263	183.74 x 3.53
PB 264	190.10 x 3.53
PB 265	196.44 x 3.53
PB 266	202.79 x 3.53
PB 267	209.14 x 3.53
PB 268	215.49 x 3.53
PB 269	221.84 x 3.53
PB 270	228.19 x 3.53
PB 271	234.54 x 3.53
PB 272	240.89 x 3.53
PB 273	247.24 x 3.53
PB 274	253.59 x 3.53
PB 275	266.29 x 3.53
PB 276	279.00 x 3.53
PB 277	291.69 x 3.53
PB 278	304.39 x 3.53
PB 279	329.79 x 3.53
PB 280	355.19 x 3.53
PB 281	380.60 x 3.53
PB 325	37.47 x 5.33
PB 326	40.65 x 5.33
PB 327	43.82 x 5.33
PB 328	47.00 x 5.33
PB 329	50.16 x 5.33
PB 330	53.34 x 5.33
PB 331	56.52 x 5.33
PB 332	59.69 x 5.33
PB 333	62.87 x 5.33
PB 334	66.04 x 5.33

Reference	Size O - Ring
PB 335	69.22 x 5.33
PB 336	72.40 x 5.33
PB 337	75.57 x 5.33
PB 338	78.74 x 5.33
PB 339	81.92 x 5.33
PB 340	85.09 x 5.33
PB 341	88.27 x 5.33
PB 342	91.44 x 5.33
PB 343	94.62 x 5.33
PB 344	97.80 x 5.33
PB 345	100.97 x 5.33
PB 346	104.14 x 5.33
PB 347	107.32 x 5.33
PB 348	110.49 x 5.33
PB 349	113.67 x 5.33
PB 350	116.84 x 5.33
PB 351	120.02 x 5.33
PB 352	123.19 x 5.33
PB 353	126.37 x 5.33
PB 354	129.54 x 5.33
PB 355	132.72 x 5.33
PB 356	135.89 x 5.33
PB 357	139.07 x 5.33
PB 358	142.24 x 5.33
PB 359	145.42 x 5.33
PB 360	148.60 x 5.33
PB 361	151.77 x 5.33
PB 362	158.12 x 5.33
PB 363	164.47 x 5.33
PB 364	170.82 x 5.33
PB 365	177.17 x 5.33
PB 366	183.52 x 5.33
PB 367	189.87 x 5.33
PB 368	196.22 x 5.33
PB 369	202.57 x 5.33
PB 370	208.92 x 5.33
PB 371	215.27 x 5.33
PB 372	221.62 x 5.33
PB 373	227.97 x 5.33
PB 374	234.32 x 5.33
PB 375	240.67 x 5.33