

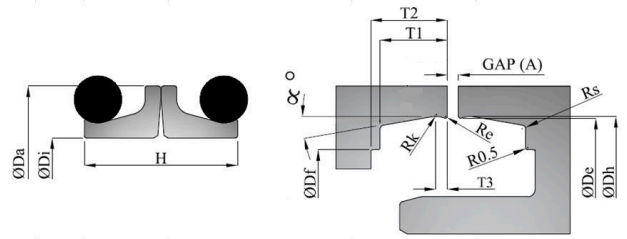
SMITH EQUIPMENT & SAP PARTS

Mechanical Face Seals

Product List | May 2023

O-Ring (DO/PADO) Style

Cast Iron (NI-HARD)

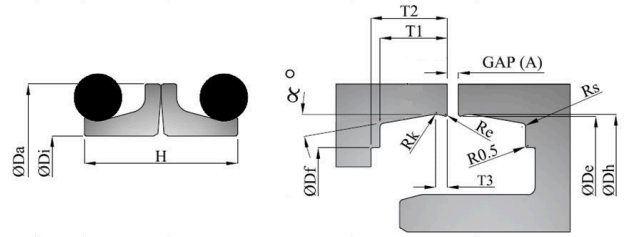


SR.No.	SAP PART No.	A	ØDa	ØDi	H	ØDh	ØDe	ØDf	T1	T2 min	T3	Re	Rk	Rs	α°	INSTALLATION TOOL
1	SAPC100510038021NB60	3	51	38	21	53.7	53	46	9	11	1.8	0.5	2	1	10°	SP-51A
2	SAPC100580045021NB60	3	58	45	21	61.6	60.8	53.4	10	12	1.8	0.3	2.5	1	10°	SP-58A
3	SAPC100590046020NB60	3	59	46	20	62.5	61.8	56	8.5	10.5	1.8	0.5	2	1	10°	SP-59A
4	SAPC100620048025NB60	3	62	48	25	68	67.2	58	12	14	2	0.4	3	1	10°	SP-62A
5	SAPC100700555022NB60	3	70	55.5	22	73.8	73.1	65.5	10	11.5	2.4	0.5	5	1	10°	SP-70A
6	SAPC100730602020NB60	3	73	60.2	20	76.5	75.8	69	8.5	10.5	1.8	0.5	2	1	10°	SP-73A
7	SAPC100730615174NB60	2	73	61.5	17.4	75.8	75.5	68.5	8	9.5	1.4	0.5	1.5	1	10°	SP-73A
8	SAPC100750058026NB60	3	75	58	26	79.5	78.7	68	13	17.5	2.62	0.5	3	3	17°	SP-75A
9	SAPC100760064176NB60	2	76	64	17.6	78.8	78.5	72	8	10	1.37	0.5	1.5	1	10°	SP-76A
10	SAPC100780064025NB60	3	78	64	25	84.6	83.8	74	12.5	14.5	2	0.4	3	1	10°	SP-78A
11	SAPC100800067020NB60	3	80	67	20	83.4	82.7	76.8	8.5	10.5	1.8	0.5	2	1	10°	SP-80A
12	SAPC1008050063026NB60	3	80.5	63	26	84	83.2	72	11.5	13	2.5	0.5	5	1	10°	SP-80.5A
13	SAPC1008250635032NB60	3	82.5	63.5	32	87	86	74.5	14.5	17.5	2.8	0.5	5	1	10°	SP-82.5A
14	SAPC100840071020NB60	3	84	71	20	87.4	86.7	80.8	8.5	10.5	1.8	0.5	2	1	10°	SP-84A
15	SAPC1008650675032NB60	3	86.5	67.5	32	91	90	78	14.5	17	2.8	0.5	5	1	10°	SP-86.5A
16	SAPC100870074021NB60	3	87	74	21	91.6	91.1	83	10.1	12.1	2.44	0.5	3	3	9°30'	SP-87A
17	SAPC1008760775136NB60	3	87.6	77.5	13.5	90.7	90.2	85	7.5	8.5	1.4	0.5	1.5	1.5	15°	SP-87.6A
18	SAPC100890685024NB60	3	89	68.5	24	92.5	91.5	83	11	13.5	2.8	0.5	5	1	10°	SP-89A
19	SAPC100920073032NB60	3	92	73	32	96.5	95.5	84	14.5	17.5	2.8	0.5	5	1	10°	SP-92A
20	SAPC1009250795020NB60	3	92.5	79.5	20	96	95.3	88	8.5	10.5	1.8	0.5	2	1	10°	SP-92.5A
21	SAPC100980081028NB60	3	98	81	28	102.3	101.3	91	12.5	14.5	2.8	0.5	5	1	10°	SP-98A
22	SAPC101000079030NB60	3	100	79	30	105.2	104.2	92	15	17	2.5	0.7	3	1	10°	SP-100A
23	SAPC101000080029NB60	3	100	80	29	104	103.2	92	14.5	16.5	2	0.4	3	1	10°	SP-100A
24	SAPC101020083028NB60	3	102	83	28	105.5	104.5	94	12.5	15	2.8	0.5	5	1	10°	SP-102A
25	SAPC110450905026NB60	3	104.5	90.5	26	107.4	106.6	100.4	11.8	14.2	2.9	1.2	2.8	1	10°	SP-104.5A
26	SAPC110660094156NB60	2	106.6	96.5	13.6	109.68	109.18	103.9	7.5	8	1.4	0.5	1.5	1	15°	SP-106.6A
27	SAPC101080088024NB60	3	108	88	24	111.5	110.5	102	11	13.5	2.8	0.5	5	1	10°	SP-108A
28	SAPC101090092022NB60	3	109	92	22	113.8	113	105	9.5	11.5	2	0.5	3	1	10°	SP-109A
29	SAPC110950905032NB60	3	109.5	90.5	32	114	113	101.5	14.5	17.5	2.8	0.5	5	1	10°	SP-109.5A
30	SAPC101100091032NB60	3	110	91	32	114	113	101.5	14.5	17.5	2.8	0.5	5	1	10°	SP-110A
31	SAPC101110095024NB60	3	111	95	24	115.6	114.8	108	11	12.5	1.8	0.5	2	1	10°	SP-111A
32	SAPC101120092032NB60	3	112	92	31.8	115.5	114.8	104	14.5	16.5	2.65	0.5	4.8	3	10°	SP-112A
33	SAPC101140095032NB60	3	114	95	32	120	119.2	107	15	17	2.5	0.5	3	1	12°	SP-114A
34	SAPC101160097032NB60	3	116	97	32	120.5	119.5	108	14.5	17.5	2.8	0.5	5	1	10°	SP-116A
35	SAPC101170103020NB60	3	117	103	20	119.8	119	112.5	9	11	1.8	0.5	2	1	10°	SP-117A
36	SAPC101170104021NB60	3	117	104	21	121.8	121.1	113	9.3	11.2	2.51	0.5	3	3	9°30'	SP-117A
37	SAPC101190100032NB60	3	119	100	32	123.5	122.5	111	14.5	17.5	2.8	0.5	5	1	10°	SP-119A
38	SAPC101200099028NB60	3	120	99	28	123.5	122.5	112	12.5	14.5	2.8	0.5	5	1	10°	SP-120A
39	SAPC112251046225NB60	3	122.5	104.6	22.5	125.5	125.1	117.5	9.5	11.5	2	0.5	3	1	10°	SP-122.5B
40	SAPC101230107023NB60	3	123	107	23	125.5	125.1	117.5	9.5	11.5	1.8	0.7	3	1	10°	SP-123B
41	SAPC101250104028NB60	3	125	104	28	128.5	127.5	117	12.5	14	2.8	0.5	5	1	10°	SP-125B
42	SAPC101250107024NB60	3	125	107	24	130.4	129.4	119.5	11	13.5	2.8	0.5	5	1	10°	SP-125B
43	SAPC101280110032NB60	3	128	110	32	133	132	121	15	17	2.5	0.7	3	1	12°	SP-128B
44	SAPC101280111022NB60	3	128	111	22	132.5	132	123	10.6	12.3	2.8	0.5	3	1	10°	SP-128B
45	SAPC101291145021NB60	3	129	114.5	21	134.1	133.1	126	9.2	10	2.3	0.5	3	1	10°	SP-129B

Note: (1) All Dimensions are in MM. (2) Elastomeric O-Ring Material can be Customised Predicated Upon Special Application Requirements.

O-Ring (DO/PADO) Style

Cast Iron (NI-HARD)

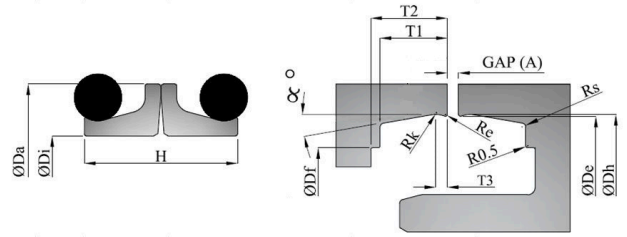


SR.No.	SAP PART No.	A	ØDa	ØDi	H	ØDh	ØDe	ØDf	T1	T2 min	T3	Re	Rk	Rs	α°	INSTALLATION TOOL
46	SAPC113151115030NB60	3	131.5	111.5	32	137	135.7	123	15	17	4.2	1	4	3	14°	SP-131.5B
47	SAPC101320109032NB60	3	132	109	32	136.6	135.6	124	15.5	17.5	2.5	0.5	3	1	10°	SP-132B
48	SAPC101330114356NB60	3	133	114	35.6	137.44	136.68	124.44	15.2	19	3.5	0.5	4.8	2	10°	SP-133B
49	SAPC113350113318NB60	3	133.5	113	31.8	137.4	136.7	124.4	15.2	17	3.5	0.5	4.8	1	10°	SP-133.5B
50	SAPC113750115031NB60	3	137.5	115	31	141.8	140.8	130	14.5	16.5	2.5	0.5	3	1	10°	SP-137.5B
51	SAPC101380120032NB60	3	138	120	32	143	142	132	14.5	17	2.8	0.5	5	1	10°	SP-138B
52	SAPC101390120318NB60	3	139	120	31.8	143.8	142.8	132	14.5	17	2.8	0.5	5	1	10°	SP-139B
53	SAPC113951185028NB60	3	139.5	118.5	28	143	142	131.5	12.5	15	2.8	0.5	5	1	10°	SP-139.5B
54	SAPC101400117029NB60	3	140	117	29	142.5	141.5	132	13	14	2.8	0.5	5	1	10°	SP-140B
55	SAPC114070127025NB60	3	140.7	127	25	144	143.2	135	12.7	15.2	2.7	1	2.8	1	10°	SP-140.7B
56	SAPC101410124022NB60	3	141	124	22	146.4	145.3	136	10.6	12.3	2.8	0.5	3	1	10°	SP-141B
57	SAPC101410127029NB60	3	141	127	29	144	143	136	12	14.5	2.3	0.5	3	1	10°	SP-141B
58	SAPC101420120038NB60	4	142	120	38	149	148	133	17	19	2.5	0.7	3	1	10°	SP-142B
59	SAPC101440125318NB60	3	144	125	31.8	148.5	147.5	136	14.5	17	2.8	0.5	5	1	10°	SP-144B
60	SAPC101460127032NB60	3	146	127	32	150.5	149.5	138	14.5	17.5	2.8	0.5	5	1	10°	SP-146B
61	SAPC115050130032NB60	3	150.5	130	32	155.6	154.6	144	14.5	16.5	2.5	0.5	5	1	10°	SP-150.5B
62	SAPC115451355028NB60	3	154.5	135.5	28	158.3	157.3	146.5	12.5	14	2.8	0.5	5	1	10°	SP-154.5B
63	SAPC101571413254NB60	3	157	141.3	25.4	159.7	158.9	152.1	11.8	14.2	2.9	0.5	2.8	1.5	10°	SP-157B
64	SAPC101570143027NB60	3	157	143	27	160	159	152	12	14.5	2.3	0.5	3	1	10°	SP-157B
65	SAPC101600143027NB60	3	160	143	27	164	163	154	12	14.5	2.8	0.5	5	1	10°	SP-160B
66	SAPC101670150028NB60	3	167	150	28	171	170	160	13	15.5	2.8	0.5	5	1	10°	SP-167B
67	SAPC101680154027NB60	3	168	154	27	171	170	162.5	12	14.5	2.3	0.5	3	1	10°	SP-168B
68	SAPC101690154022NB60	3	169	154	22	174.5	173.5	166	9.5	11	2.3	0.5	3	1	10°	SP-169B
69	SAPC101700154021NB60	3	170	154	21	175.1	174.1	167	10	11	2.3	0.5	3	1	10°	SP-170B
70	SAPC117150153028NB60	3	171.5	153	28	176.3	175.3	164.5	12.5	14.5	2.8	0.5	5	1	10°	SP-171.5B
71	SAPC117171465038NB60	3	171.7	146.5	38	176.8	175.9	158.9	18.4	20.3	3.7	0.5	6.3	1	10°	SP-171.7B
72	SAPC101720146038NB60	3	172	146	38	177	176	159	18	20.5	3.1	0.5	6.5	1	10°	SP-172B
73	SAPC101720150040NB60	4	172	150	40	179	178	165	18	20	2.5	0.7	3	1	10°	SP-172B
74	SAPC117350154032NB60	3	173.5	154	32	178	177	166	14.5	17	2.8	0.5	5	1	10°	SP-173.5B
75	SAPC101800154038NB60	3	180	154	38	185	184	167	18	20.5	3.1	0.5	6.5	1	10°	SP-180B
76	SAPC118050165027NB60	3	180.5	165	27	185	184	176.5	12	14.5	2.3	0.5	3	1	10°	SP-180.5B
77	SAPC118850173025NB60	3	188.5	173	25	192.7	191.8	182	11	13	2.3	0.6	2.8	1	10°	SP-188.5B
78	SAPC101890164030NB60	3	189	164	30	193.5	192.5	179	14.5	17	2.8	0.5	5	1	10°	SP-189B
79	SAPC101900174254NB60	3	190	174	25.4	192.7	191.8	188	12.7	14.3	2.3	0.5	2.8	1	10°	SP-190B
80	SAPC101910163038NB60	3	191	163	38	196.5	195.5	178.5	18	20.5	3.1	0.5	6.5	1	10°	SP-191B
81	SAPC101940172318NB60	3	194.4	172	31.8	198.9	197.9	186	14.5	16.5	2.8	0.5	5	1	10°	SP-194.4B
82	SAPC101950176028NB60	3	195	176	28	199.8	198.8	188	12.5	14.5	2.8	0.5	5	1	10°	SP-195B
83	SAPC101970180214NB60	3	197.4	180	21.4	202.2	201.9	196	9.4	10.6	1.2	0.5	3	1	10°	SP-197.4B
84	SAPC101990178032NB60	3	199	178	32	203.6	202.6	190	14.5	17	2.8	0.5	5	1	10°	SP-199B
85	SAPC102000177030NB60	3	200	177	30	204.5	203.5	191	14.5	17	2.8	0.5	5	1	10°	SP-200B
86	SAPC102000178038NB60	4	200	178	38	210.6	209.6	192	19	21	3	0.5	4	1	10°	SP-200B
87	SAPC102000180294NB60	3	200	180	29.4	203.84	203.3	192	13.1	17.1	2.94	1	3	3	12°	SP-200B
88	SAPC102020183028NB60	3	202	183	28	206	205	195	12.5	14.5	2.8	0.5	5	1	10°	SP-202B
89	SAPC102030186254NB60	3	203	186	25.4	205.7	204.9	190.5	14.5	16	2.3	0.5	2.8	1	10°	SP-203B
90	SAPC102050178038NB60	4	205	178	38	210.6	209.6	192	19	21	3	0.8	4	1	10°	SP-205B

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O-Ring (DO/PADO) Style

Cast Iron (NI-HARD)

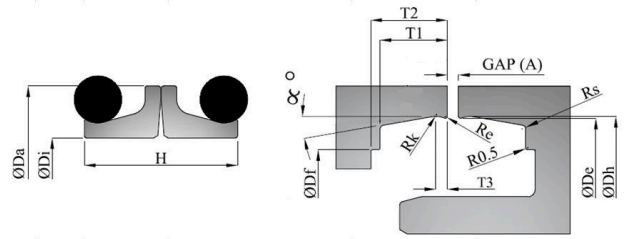


SR.No.	SAP PART No.	A	ØDa	ØDi	H	ØDh	ØDe	ØDf	T1	T2 min	T3	Re	Rk	Rs	α°	INSTALLATION TOOL
91	SAPC102090192030NB60	3	209	192	30	213.5	212.5	200	14.5	17	2.8	0.5	5	1	10°	SP-209B
92	SAPC102100182046NB60	6.3	210	182	46	215.4	214.4	197.5	18.4	24.1	3.7	0.5	6.3	1	10°	SP-210B
93	SAPC102100191028NB60	3	210	191	28	214	213	203	12.5	14.5	2.8	0.5	5	1	10°	SP-210B
94	SAPC121031823038NB60	3	210.3	182.3	38	215.5	214.5	197.5	18	20.5	3.1	0.5	6.5	1	10°	SP-210.3B
95	SAPC102150192034NB60	4	215	192	34	220.8	219.8	207	16.5	18.5	3	0.5	4	1	10°	SP-215B
96	SAPC121650195318NB60	3	216.5	195	31.8	221	220	207	14.5	17	2.8	0.5	5	1	10°	SP-216.5B
97	SAPC122282087026NB60	3	222.8	208.7	26	225.4	224.4	217	11.5	13.5	2.2	0.5	2.5	1	10°	SP-222.8B
98	SAPC102270205030NB60	3	227	205	30	231.5	230.5	219	14.5	17	2.8	0.5	5	1	10°	SP-227B
99	SAPC122850200038NB60	3	228.5	200	38	233.5	232.5	215.5	18	20.5	3.1	0.5	6.5	1	10°	SP-228.5B
100	SAPC122960208030NB60	1.5	229.6	208	35.4	236	234.6	224	17	17.8	3.3	1	3	1	10°	SP-229.6B
101	SAPC102340209042NB60	4	234	209	42	242.6	241.6	224	19.5	22.5	3	0.5	4	1	10°	SP-234B
102	SAPC102370216030NB60	3	237	216	30	241.5	240.5	229	14.5	17	2.8	0.5	5	1	10°	SP-237B
103	SAPC123950220318NB60	3	239.5	220	31.8	244	243	232	14.5	16.5	2.8	0.5	5	1	10°	SP-239.5B
104	SAPC102410220025NB60	3	241.4	220	25	244.7	244	233.5	11	13.5	2.2	0.5	4	1	10°	SP-241.4B
105	SAPC102500226041NB60	4	250	226	41	258	257.23	242	20	22	3.5	0.5	6	1	10°	SP-250B
106	SAPC125150223038NB60	3	251.5	223	38	256.5	255.5	238.5	18	20.5	3.1	0.5	6.5	1	10°	SP-251.5B
107	SAPC125150223046NB60	3	251.5	223.5	46.6	256.58	255.68	238.7	22	24	3.7	0.5	6.3	3	10°	SP-251.5/46B
108	SAPC102522255038NB60	3	252	225.5	38	259.3	257.7	-	18	-	4	1	3	3	15°	SP-252B
109	SAPC125970231038NB60	3	259.7	231	38	264.7	263.7	247	18	20.5	3.1	0.5	6.5	1	10°	SP-259.7B
110	SAPC125970235038NB60	3	259.7	235	38	264.7	263.7	247	18	20.5	3.1	0.5	6.5	1	10°	SP-259.7B
111	SAPC102610238318NB60	3	261	238	31.8	265.5	264.5	254	14.5	17	2.8	0.5	5	1	10°	SP-261B
112	SAPC126280240038NB60	3	262.8	240	38	273.5	272.5	255.5	18	20.5	3.1	0.5	6.5	1	10°	SP-262.8B
113	SAPC126280242040NB60	3	262.8	242	40	273.5	272.5	255.5	18	20.5	3.1	0.5	6.5	1	10°	SP-262.8B
114	SAPC102680239042NB60	4	268	239	42	274.2	273.2	257	20.5	22.5	3	0.5	4	1	10°	SP-268B
115	SAPC102700250030NB60	3	270	250	30	274.7	273.7	262	14	15.5	2.8	0.5	5	1	10°	SP-270B
116	SAPC102740236042NB60	3	274	236	42	278.2	277.3	260	18.8	22	5.1	1	10	3	10°	SP-274B
117	SAPC102760250044NB60	4	276	250	44	284.6	283.6	266	20.5	24	3	0.5	4	1	10°	SP-276B
118	SAPC128050252038NB60	3	280.5	252	38	285.5	284.5	267.5	18	20.5	3.1	0.5	6.5	1	10°	SP-280.5B
119	SAPC102880262040NB60	7	288	262	40	294	293	276	17	20	3.8	1.2	6	3	10°	SP-288B
120	SAPC102930265038NB60	3	293	265	38	298	297	280	18	20.5	3.1	0.5	6.5	1	10°	SP-293B
121	SAPC102930265046NB60	3	293	265	46	298	297	280	18.4	24.1	3.7	0.5	6.3	3	10°	SP-293B
122	SAPC103030275038NB60	3	303	275	38	308	307	290	18	20.5	3.1	0.5	6.5	1	10°	SP-303B
123	SAPC103112825038NB60	3	311	282.5	38	316.3	315.4	298	18	20.5	3.1	0.5	6.5	1	10°	SP-311B
124	SAPC103250300038NB60	3	325	300	38	335.5	334.5	318	17.5	20.5	3.1	0.5	6.5	1	10°	SP-325B
125	SAPC103250303038NB60	3	325	303	38	335.5	334.5	318	17.5	20.5	3.1	0.5	6.5	1	10°	SP-325B
126	SAPC103273035038NB60	3	327	303.5	38	333	332.1	315.12	18.4	20.3	3.7	0.5	6.3	1	10°	SP-327B
127	SAPC103280300038NB60	4	328	300	38	333	332	315	19.5	22	3	0.8	4	1	10°	SP-328B
128	SAPC103280300040NB60	4	328	300	40	333	332	315	18.5	21	3	0.5	4	1	10°	SP-328B
129	SAPC103410318038NB60	3	341	318	38	351.5	350.5	334	17.5	20.5	3.1	0.5	6.5	1	10°	SP-341B
130	SAPC103430318038NB60	3	343	318	38	351.5	350.5	334	18	20.5	3.1	0.5	6.5	1	10°	SP-343B
131	SAPC103460318038NB60	3	346	318	38	351.5	350.5	334	18	20.5	3.1	0.5	6.5	1	10°	SP-346B
132	SAPC103460318046NB60	3	346	318	46	351.58	350.68	333.7	22	24	3.7	0.5	6.3	3	10°	SP-346/46B
133	SAPC103540326030NB60	3	354	326	30	358.7	357.7	346	15	16.5	2.8	0.5	5	1	10°	SP-354B
134	SAPC103680340040NB60	3	368	340	40	374.8	373.8	358	19	21.5	3	0.5	4	1	10°	SP-368B
135	SAPC136850340038NB60	3	368.5	340	38	374.8	373.2	358	19	21.5	3	0.5	4	1	10°	SP-368.5B

Note: (1) All Dimensions are in MM. (2) Elastomeric O-Ring Material can be Customised Predicated Upon Special Application Requirements.

O-Ring (DO/PADO) Style

Cast Iron (NI-HARD)

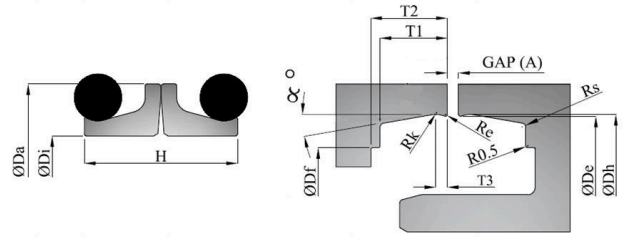


SR.No.	SAP PART No.	A	ØDa	ØDi	H	ØDh	ØDe	ØDf	T1	T2 min	T3	Re	Rk	Rs	α°	INSTALLATION TOOL
136	SAPC103700340040NB60	3	370	340	40	374.6	374	358	17	21.5	3	1	3	3	9°30'	SP-370B
137	SAPC103750350038NB60	3	375	350	38	385.5	384.5	368	17.5	20.5	3.1	0.5	6.5	1	10°	SP-375B
138	SAPC103750355038NB60	3	375	355	38	385.5	384.5	368	17.5	20.5	3.1	0.5	6.5	1	10°	SP-375B
139	SAPC103940367038NB60	3	394	367	38	399.5	398.6	381	17.5	20.5	3.7	0.5	6.5	1	10°	SP-394B
140	SAPC103940369038NB60	3	394	369	38	399.5	398.6	381	17.5	20.5	3	0.5	6.5	1	10°	SP-394B
141	SAPC103940366038NB60	4.77	394	366	38	399.5	398.6	381	17.5	20.5	3	0.5	6.5	1	10°	SP-394B
142	SAPC103940366466NB60	3	394	366	46.6	399.58	398.68	381.7	22	24	3.7	0.5	6.3	3	10°	SP-394/46B
143	SAPC103980370038NB60	3	398	370	38	403.5	402.6	385	17.5	20.5	3	0.5	6.5	1	10°	SP-398B
144	SAPC104050382040NB60	6	405	382	40	412	411	395	17	22	3.8	1.1	6	3	10°	SP-405B
145	SAPC104100388038NB60	3	410	388	38	419.5	418.7	400	18	20.5	3	0.5	6.5	0.8	10°	SP-410B
146	SAPC104130385046NB60	8	413	385	46	424.5	423.3	402	22	30	3.5	0.5	6	3	10°	SP-413B
147	SAPC104150388038NB60	3	415	388	38	420.3	419.4	402	17.5	20.5	3	0.5	6.5	1	10°	SP-415B
148	SAPC141620388038NB60	3	416.2	388	38	421.6	420.7	402	17.5	20.5	3	0.5	6.5	1	10°	SP-416.2B
149	SAPC104270400038NB60	3	427.2	400.2	38	432.32	431.42	413	22	24	3.7	0.5	6.3	3	10°	SP-427.2B
150	SAPC104570430038NB60	3	457	430	38	462.3	461.3	444	17.5	20.5	3	0.5	6.5	1	10°	SP-457B
151	SAPC104570430046NB60	3	457.2	430.35	46.6	462.32	461.42	444.44	22	24	3.7	0.5	6.3	3	10°	SP-457.2B
152	SAPC145750430038NB60	3	457.5	430	38	463.5	462.5	444	18	21	3	0.5	6.5	1	10°	SP-457.5B
153	SAPC145844293038NB60	3	458.4	429.3	38	462.3	461.3	444	17.5	20.5	3	0.5	6.5	1	10°	SP-458.4B
154	SAPC145920430038NB60	3	459.2	430	38	464.5	463.5	444	17.5	20.5	3	0.5	6.5	1	10°	SP-459.2B
155	SAPC104800450050NB60	3	480	450	50	492.2	490.2	470	23.5	25.5	4	0.5	6	1	10°	SP-480B
156	SAPC148264546040NB60	6	482.6	454.6	40	487.72	486.82	469.84	22	24	3.7	3	6.3	3	10°	SP-482.6B
157	SAPC104950465436NB60	3	495	465	43.6	500.7	498.5	482.9	21.2	22.9	4.7	0.7	7	1	10°	SP-495B
158	SAPC149720465436NB60	3	497.2	465	43.6	503.1	500.9	482.9	21.2	23	4.7	0.7	7	1	10°	SP-497.2B
159	SAPC105000470050NB60	3	500	470	50	512.2	510.2	490	23.5	25.5	4	0.5	6	1	10°	SP-500B
160	SAPC153340495436NB60	6	533.4	495	43.6	538.4	537.4	521	18	21.7	4	1.3	6.5	1	10°	SP-533.4B
161	SAPC105330505436NB60	6	533.4	505	43.6	538.5	537.5	521	19.7	21.7	3.8	1.3	6.35	1	10°	SP-533.4B
162	SAPC153580505436NB60	3	535.8	505	43.6	541.8	539.7	521	19.7	21.7	4.2	0.5	6.5	1	10°	SP-535.8B
163	SAPC105480508060NB60	15	548	508	60	553	551.5	528	22	26	5	1.1	9	3	10°	SP-548B
164	SAPC105600530050NB60	6	560	530	50	571.5	570	545	23.5	25.5	4	0.8	6	1	10°	SP-560B
165	SAPC156680538436NB60	6	566.8	538	43.6	572.2	571.2	554	19.7	21.7	4	1.3	6.5	1	10°	SP-566.8B
166	SAPC156790540039NB60	3	567.9	540	39	573.06	572.16	555.18	18.4	23.3	3.7	0.5	6.3	3.7	10°	SP-567.9B
167	SAPC105685408436NB60	3	568.3	540.8	40	573.05	572.16	557	18.4	20.5	3.7	0.5	6.3	3	10°	SP-568.3B
168	SAPC105900559050NB60	6	590	559	50	601.5	599.9	575	23.5	25.5	4	0.8	6	1	10°	SP-590B
169	SAPC106080576436NB60	6	608	576	43.6	613	612	596	19.7	21.7	4	1.3	6.5	1	10°	SP-608B
170	SAPC106085815436NB60	6	608	581.5	43.6	613	612	596	19.7	21.7	4	1.3	6.5	1	10°	SP-608B
171	SAPC106230591050NB60	6	623	591	50	634.7	633.2	613	23.5	25.5	4	0.8	6	1	10°	SP-623B
172	SAPC106280596050NB60	3	628	596	50	640.2	638.2	618	23.5	25.5	5.12	0.5	6	1	10°	SP-628B
173	SAPC106950660053NB60	6	695	660	53	705.3	703.8	680	23.5	25.5	4	0.8	6	1	10°	SP-695B
174	SAPC107000667436NB60	9	700	667	43.6	705.6	704.3	687	21.3	24	3.7	0.7	6.3	1	10°	SP-700B
175	SAPC107000667050NB60	12	700	667	50	705.6	704.7	687.7	21.3	26.2	3.7	1.2	6.3	1	10°	SP-700B
176	SAPC107500718050NB60	6	750	718	50	761.7	760.2	740	23.5	25.5	4	0.5	6	1	10°	SP-750B
177	SAPC108010740080NB60	17	801	740	80	816.9	815.9	784	34.5	39.5	4.4	1.1	10	1	10°	SP-801B
178	SAPC180677737044NB60	10	806.7	773.7	44	812.28	811.38	794.4	22	24	3.7	0.5	6.3	3	10°	SP-806B
179	SAPC108260770080NB60	17	826	770	80	831.9	830.9	800	34.5	39.5	4.4	1.1	10	1	10°	SP-826B
180	SAPC108360780080NB60	17	836	780	80	841.9	840.9	810	34.5	39.5	4.4	1.1	10	1	10°	SP-836B

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O-Ring (DO/PADO) Style

Cast Iron (NI-HARD)



SR.No.	SAP PART No.	A	ØDa	ØDi	H	ØDh	ØDe	ØDf	T1	T2 min	T3	Re	Rk	Rs	α°	INSTALLATION TOOL
181	SAPC108650817466NB60	12	865	817	46.6	870.6	869.7	852.7	21.3	26.2	3.8	1.2	6.3	1	10°	SP-865B
182	SAPC108650825048NB60	11	865	825	48	870.6	869.7	852.7	18.4	23.3	3.7	1.2	6.3	1	10°	SP-865/825 B
183	SAPC108860834080NB60	17	886	834	80	891.9	890.9	860	34.5	39.5	4.5	1.1	10	1	10°	SP-886B
184	SAPC109370902060NB60	12	937	902	60	946.3	945.1	922.4	23.8	29	4.65	1.4	8	1	10°	SP-937B
185	SAPC109410902060NB60	16	941	902	60	946.3	945.2	922.4	23.8	25.2	4.65	1.4	8	1	10°	SP-941B
186	SAPC109510890080NB60	17	951	890	80	956.9	955.9	924	30	34	4.4	1.1	10	5	10°	SP-951B
187	SAPC109760920080NB60	17	976	920	80	981.9	980.9	950	34.5	39.5	4.4	1.1	10	1	10°	SP-976B
188	SAPC110851030080NB60	17	1085	1030	80	1090.9	1089.9	1058	34.5	39.5	4.4	1.1	10	1	10°	SP-1085B
189	SAPC111051047080NB60	17	1105	1047	80	1110.9	1109.9	1078	34.5	39.5	4.4	1.1	10	1	10°	SP-1105B
190	SAPC112361175080NB60	26	1236	1175	80	1241.9	1240.4	1209	32.5	37.5	4.4	0.5	10	1	10°	SP-1236B
191	SAPC114251372080NB60	26	1425	1372	80	1430.9	1429.9	1398	32.5	37.5	4.4	1.1	10	1	10°	SP-1425B

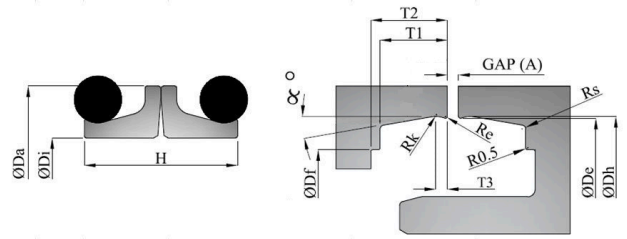
Note: (1) All Dimensions are in MM. (2) Elastomeric O-Ring Material can be Customised Predicated Upon Special Application Requirements.

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O-Ring (DO/PADO) Style

Forged Steel

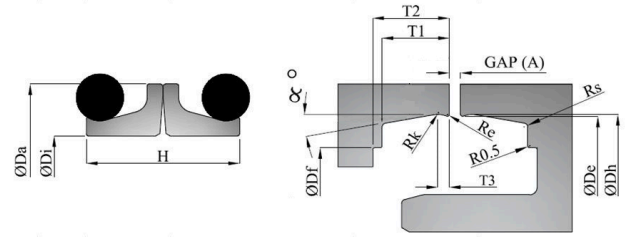


SR.No.	SAP PART No.	A	ØDa	ØDi	H	ØDh	ØDe	ØDf	T1	T2 min	T3	Re	Rk	Rs	α°	INSTALLATION TOOL
1	SAPF100450034014NB60	1.5	45	34	14	47	46.5	42	6.5	8	1	0.5	1	1	10°	SP-45A
2	SAPF100500039014NB60	1.5	50	39	14	52	51.5	46	6.5	8	1	0.5	1	1	10°	SP-50A
3	SAPF100510038021NB60	3	51	38	21	53.7	53	46	9	11	1.8	0.5	2	1	10°	SP-51A
4	SAPF100520040020NB60	3	52	40	20	55	54.2	46	9	11	1	0.5	1	1	15°	SP-52A
5	SAPF100580045021NB60	3	58	45	21	61.6	60.8	53.4	10	12	1.8	0.5	2.5	1	10°	SP-58A
6	SAPF100580048144NB60	1.5	58	48	14.4	59.9	59.4	55	6.3	8	1.5	0.5	1.7	1	10°	SP-58A
7	SAPF100580432024NB60	3	58	43.5	24	62.11	61.6	52	11	14	1.92	0.5	3	3	10°	SP-58A
8	SAPF100590046020NB60	3	59	46	20	61.6	61.2	53	9	11	2	0.5	2.5	1	10°	SP-59A
9	SAPF100620048025NB60	3	62	48	25	68	67.2	58	12	14	2	0.5	3	1	10°	SP-62A
10	SAPF100640051019NB60	3	64	51	19	67.4	66.7	60	8.7	10.2	2	0.5	2.5	2	10°	SP-64A
11	SAPF100650051023NB60	3	65	51	23	68.2	67.4	60	10	12	1.9	0.3	2.5	3.2	10°	SP-65A
12	SAPF100700555022NB60	3	70	55.5	22	73.8	73.1	65.5	10	11.5	2.4	0.5	5	1	10°	SP-70A
13	SAPF100700056025NB60	3	70	56	25	76	75.2	66	12	14	2	0.5	2.5	1	10°	SP-70A
14	SAPF100730618174NB60	3	73	61.8	17.4	75.8	75.5	69	7.5	8.5	1	0.3	1.4	1	10°	SP-73A
15	SAPF100740057027NB60	3	74	57	27	79.4	78.6	67	13.5	15.5	2	0.5	3	1	10°	SP-74A
16	SAPF100740060206NB60	3	74	60	20.6	78.4	77.4	70	9	11	1.9	0.5	2.5	1	12°	SP-74A
17	SAPF100750058027NB60	3	75	58	27	79.2	78.6	66	12	14	2	0.5	2.5	1	10°	SP-75A
18	SAPF100760064176NB60	2	76	64	17.6	78.8	78.5	72	8	10	1.37	0.5	1.5	1	10°	SP-76A
19	SAPF1007750057356NB60	3	77.5	57	35.6	81.4	80.7	68.5	15.2	20.9	3.5	0.5	4.8	1	10°	SP-77.5A
20	SAPF100780064025NB60	3	78	64	25	84.6	83.8	74	12.5	14.5	2	0.5	3	1	12°	SP-78A
21	SAPF100800067020NB60	3	80	67	20	83.4	82.7	76.8	8.5	10.5	1.8	0.5	2	1	10°	SP-80A
22	SAPF108250635032NB60	3	82.5	63.5	32	86.5	85.7	73.5	15.2	16.8	3.5	0.5	4.8	1	10°	SP-82A
23	SAPF100840069024NB60	3	84	69	24	89.6	88.6	78.5	11	13	1.9	0.5	3	1	10°	SP-84A
24	SAPF100840071020NB60	3	84	71	20	87.4	86.7	80.8	8.5	10	1.8	0.5	2	1	10°	SP-84A
25	SAPF108650675318NB60	3	86.5	67.5	31.8	91	90	78	14.5	17	2.8	0.5	5	1	10°	SP-86.5A
26	SAPF108650074022NB60	3	86.5	74	22	91.4	90.7	85	9.5	11.5	2	0.5	3	1	10°	SP-86.5A
27	SAPF108760775136NB60	3	87.6	77.5	13.6	90.7	90.2	89.5	7.5	8	1.4	0.5	1.5	1	15°	SP-87.6A
28	SAPF108850735204NB60	3	88.5	73.5	20.4	90.2	89.4	82	12.7	14.3	2.2	0.5	2.8	1	10°	SP-88.5A
29	SAPF100890069024NB60	3	89	69	24	92.5	91.5	83	11	13.5	2.8	0.5	5	1	10°	SP-89A
30	SAPF100890072244NB60	3	89	72	24.4	92.5	91.5	83	11	13.5	2.8	0.5	5	1	10°	SP-89A
31	SAPF100900070029NB60	3	90	70	29	95.5	94.7	84	13.5	15.5	2	0.5	3	1	10°	SP-90A
32	SAPF100920725356NB60	3	92	72.5	35.6	96	95.2	83	15.2	20.9	3.5	0.5	4.8	1	10°	SP-92A
33	SAPF100920073032NB60	3	92	73	32	96.2	95.4	84	15	17	2.8	0.5	4	1	10°	SP-92A
34	SAPF100920775016NB60	3	92	77.5	16	98.4	97.5	88.8	9	10	1.9	0.5	2	1	12°	SP-92A
35	SAPF109250795020NB60	3	92.5	79.5	20	96	95.3	88	8.5	10.5	1.8	0.5	2	1	10°	SP-92.5A
36	SAPF100940076030NB60	3	94	76	30	101.4	100.6	89	14.5	16.5	2	0.5	3	1	10°	SP-94A
37	SAPF100970084205NB60	1	97	84	20.5	101	100	93.75	9.6	11.3	3	0.5	3.25	1	10°	SP-97A
38	SAPF100980081028NB60	3	98	81	28	102.3	101.3	91	12.5	14.5	2.8	0.5	5	1	10°	SP-98A
39	SAPF100990086020NB60	3	99	86	20	102	101.2	94	9	11.5	2	0.5	3	1	10°	SP-99A
40	SAPF101000080030NB60	3	100	80	30	104.1	103.3	93	15	18	2.3	0.5	2.5	1	10°	SP-100A
41	SAPF101020825356NB60	3.2	102	82.5	35.6	107.3	106.5	94.3	15.2	20.9	3.5	0.5	4.8	1	10°	SP-102A
42	SAPF101050090026NB60	3	105	90	26	107.3	106.7	100.4	11.5	14	2.9	0.5	2.8	1	10°	SP-105A
43	SAPF110650094023NB60	3	106.5	94	23	111.6	110.8	102	9.5	11.5	2	0.5	3	1	10°	SP-106.5A
44	SAPF101060965136NB60	2	106.6	96.5	13.6	109.68	109.18	103.9	7.5	9	1.4	0.5	1.5	1	15°	SP-106.6A
45	SAPF101080088024NB60	3	108	88	24	111.5	110.5	102	11	13.5	2.8	0.5	5	1	10°	SP-108A

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O-Ring (DO/PADO) Style

Forged Steel

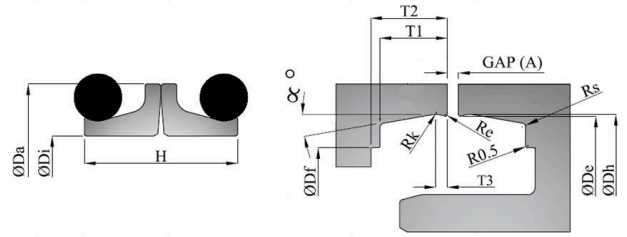


SR.No.	SAP PART No.	A	ØDa	ØDi	H	ØDh	ØDe	ØDf	T1	T2 min	T3	Re	Rk	Rs	α°	INSTALLATION TOOL
46	SAPF101090090032NB60	3	109	90	32	112.5	111.7	104	14.5	17	3.2	0.5	3	1	12°	SP-109A
47	SAPF101090092022NB60	3	109	92	22	113.8	113	105	9.5	11.5	2	0.5	3	1	10°	SP-109A
48	SAPF110950905032NB60	3	109.5	90.5	32	113.4	112.7	100.4	15.2	16.8	3.5	0.5	4.8	1	10°	SP-109.5A
49	SAPF101110095024NB60	3	111	95	24	115.6	114.8	108	11	12.5	1.8	0.5	2	1	10°	SP-111A
50	SAPF101140095032NB60	3	114	95	32	120	119.2	107	15	17	2.5	0.5	3	1	12°	SP-114A
51	SAPF101170103020NB60	3	117	103	20	119.8	119	112.5	9	11	1.8	0.5	2	1	10°	SP-117A
52	SAPF101170104022NB60	3	117	104	22	121	120.2	107	9.5	11.5	2	0.5	3	1	10°	SP-117A
53	SAPF101190100032NB60	3	119	100	32	123.5	122.2	111	14.5	17.5	2.8	0.5	5	1	10°	SP-119A
54	SAPF101191015029NB60	3	119	101.5	29	125.3	124.3	112.3	13.8	16.6	2.5	0.5	3	1	10°	SP-119A
55	SAPC101200100294NB60	3	120	100	29.4	125	124.2	111	14	16	2.9	0.5	3	1	10°	SP-120B
56	SAPF101210104022NB60	3	121	104	22	125.5	125.1	117.5	9.5	11.5	2	0.5	3	1	10°	SP-121A
57	SAPF101220102334NB60	3	122	102	33.4	127	126.2	115	17.5	18.5	3	0.5	3	1	12°	SP-122A
58	SAPF101220103032NB60	3	122	103	32	127.2	126.2	115	15.5	17.5	2.5	0.5	3	1	12°	SP-122A
59	SAPF112251046225NB60	1.6	122.5	104.6	22.5	125.5	125	117.5	9.5	12	2	0.5	3	1	10°	SP-122A
60	SAPF101250104028NB60	3	125	104	28	128.5	127.5	117	12.5	14	2.8	0.5	5	1	10°	SP-125B
61	SAPF101250107024NB60	3	125	107	24	130.4	129.4	119.5	11	13.5	2.8	0.5	5	1	10°	SP-125B
62	SAPF101280110032NB60	3	128	110	32	133	132	121	14.5	17	2.5	0.5	3	1	12°	SP-128B
63	SAPF101280111022NB60	3	128	111	22	132.5	132	123	10.6	12.3	2.8	0.5	3	1	10°	SP-128B
64	SAPF101291145021NB60	3	129	114.5	21	134.1	133.1	126	9.2	10	2.3	0.5	3	1	10°	SP-129B
65	SAPF101291145235NB60	3	129	114.5	23.5	134.1	133.1	126	10.4	11.9	2.8	0.5	5	1	10°	SP-129B
66	SAPF101301185020NB60	1	130	118.5	20	134.1	133.1	126	9.2	10.5	2.3	0.5	3	1	10°	SP-130B
67	SAPF101320109032NB60	3	132	109	32	136.6	135.6	124	15.5	17.5	2.5	0.5	3	1	10°	SP-132B
68	SAPF101330111032NB60	5	133	111	32	137	136.5	124.5	14.5	18	2.8	0.5	5	1	10°	SP-133B
69	SAPF113750114031NB60	3	137.5	114	31	142.5	141.5	132	14.5	18	2.8	0.5	5	1	10°	SP-137.5B
70	SAPF101380117318NB60	3	138	117	31.8	142.5	141.5	132	14.5	17	2.8	0.5	5	1	10°	SP-138B
71	SAPF101390120318NB60	3	139	120	31.8	143	142	129.3	14.3	17.4	3	0.5	5.4	1	10°	SP-139B
72	SAPF101400119028NB60	3	140	119	28	142.5	141.5	132	12.5	14	2.8	0.5	5	1	10°	SP-140B
73	SAPF114070127025NB60	3	140.7	127	25	144	143.2	135	12.7	15.2	2.7	0.5	2.8	1	10°	SP-140.7B
74	SAPF101410120318NB60	3	141	120	31.8	144	143	138	14.5	17.5	2.8	0.5	5	1	10°	SP-141B
75	SAPF101410124022NB60	3	141	124	22	146.4	145.3	136	10.6	12.3	2.8	0.5	3	1	10°	SP-141B
76	SAPF101410127029NB60	3	141	127	29	144	143	136	12	14.5	2.8	0.5	5	1	10°	SP-141B
77	SAPF101410127025NB60	3	141.2	127	25.4	143.8	143.1	136.9	11.8	14.2	2.9	0.5	2.8	1	10°	SP-141B
78	SAPF101420120038NB60	4	142	120	38	149	148	133	17	19	2.5	0.5	3	1	10°	SP-142B
79	SAPF101440125318NB60	3	144	125	31.8	148.5	147.5	136	14.5	17	2.8	0.5	5	1	10°	SP-144B
80	SAPF101460127032NB60	4	146	127	32	150.5	149.5	138	14.5	17.5	2.8	0.5	5	1	10°	SP-146B
81	SAPF101500130032NB60	3	150	130	32	155.6	154.6	144	14.5	16.5	2.5	0.5	5	1	10°	SP-150B
82	SAPF101520130385NB60	3	152	130	38.5	159	158	144	18.5	20.5	2.5	0.5	3	1	10°	SP-152B
83	SAPF101570142028NB60	3	157	142	28	160	159	152	12	14.5	2.3	0.5	3	1	10°	SP-157B
84	SAPF101571427254NB60	3	157	142.7	25.4	159.7	158.9	152.1	11.8	14.2	2.9	0.5	2.8	1	10°	SP-157B
85	SAPF101570144026NB60	3	157	144	26	160	159	154.5	12	14.5	2.8	0.5	5	1	10°	SP-157B
86	SAPF101600143027NB60	4	160	143	27	164	163	154	12	14.5	2.8	0.5	5	1	10°	SP-160B
87	SAPF101670150028NB60	3	167	150	28	171	170	160	13	15.5	2.8	0.5	5	1	10°	SP-167B
88	SAPF101680146038NB60	4	168	146	38	176.8	175.9	159	18	20.5	3	0.5	6.5	1	10°	SP-168B
89	SAPF101680154027NB60	3	168	154	27	171	170	163	12	14.5	2.3	0.5	3	1	10°	SP-168B
90	SAPF116811539254NB60	3	168.1	153.9	25.4	171	170.2	164	11.8	14.2	2.9	0.5	2.8	1	10°	SP-168B

Note: (1) All Dimensions are in MM. (2) Elastomeric O-Ring Material can be Customised Predicated Upon Special Application Requirements.

O-Ring (DO/PADO) Style

Forged Steel

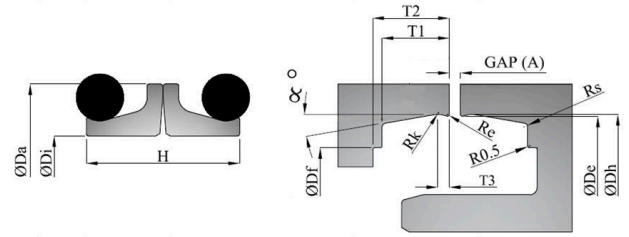


SR.No.	SAP PART No.	A	ØDa	ØDi	H	ØDh	ØDe	ØDf	T1	T2 min	T3	Re	Rk	Rs	α°	INSTALLATION TOOL
91	SAPF101690154022NB60	3	169	154	22	174.5	173.5	166	9.2	11	2.3	0.5	3	1	10°	SP-169B
92	SAPF101700148034NB60	3	170	148	34	175.63	174.5	162	14.5	17.5	3.05	0.5	3	1.5	12°	SP-170B
93	SAPF101700154021NB60	3	170	154	21	175.1	174.1	167	9.2	10	2.3	0.5	3	1	10°	SP-170B
94	SAPF117150153028NB60	3	171.5	153	28	176.3	175.3	164.5	12.5	14.5	2.8	0.5	5	1	10°	SP-171.5B
95	SAPF117171463038NB60	6.3	171.7	146.3	38	176.8	175.9	158.9	18.4	20.3	3.7	0.5	6.3	1	10°	SP-171.7B
96	SAPF117171474038NB60	4	171.7	147.4	38	176.8	175.9	158.9	22	24	3.7	0.5	6.3	3	10°	SP-171.7B
97	SAPF101720150040NB60	4	172	150	40	179	178	165	18	20	2.5	0.5	2	1	10°	SP-172B
98	SAPF117350154032NB60	3	173.5	154	32	178	177	166	14.5	17	2.8	0.5	5	1	10°	SP-173.5B
99	SAPF101750146038NB60	6.3	175	146	38	180.5	179.5	162	17.7	20.5	3	0.5	6.3	1	10°	SP-175B
100	SAPF118050165027NB60	3	180.5	165	27	185	184	176.5	12	14.5	2.3	0.5	3	1	10°	SP-180.5B
101	SAPF101890164030NB60	3	189	164	30	193.5	192.5	179	14.5	17	2.8	0.5	5	1	10°	SP-189B
102	SAPF101901725254NB60	3	190	172.5	25.4	192.7	191.8	188	12.7	14.3	2.3	0.5	2.8	1	10°	SP-190B
103	SAPF101900174254NB60	3	190	174	25.4	192.7	191.8	188	12.7	14.3	2.3	0.5	2.8	1	10°	SP-190B
104	SAPF101910163038NB60	3	191	163	38	196.5	195.5	178.5	18	20.5	3.1	0.5	6.5	1	10°	SP-191B
105	SAPF119131633046NB60	6.3	191.3	163.3	46	196.8	195.9	178.9	18.4	24.1	3.7	0.5	6.3	1	10°	SP-191.3B
106	SAPF119740180214NB60	3	197.4	180	21.4	202.2	201.9	196	9.4	10.6	1.2	0.5	3	1	10°	SP-197.4B
107	SAPF101990178032NB60	3	199	178	32	203.6	202.6	190	14.5	17	2.8	0.5	5	1	10°	SP-199B
108	SAPF102000177030NB60	3	200	177	30	204.5	203.5	191	14.5	17	2.8	0.5	5	1	10°	SP-200B
109	SAPF102000178038NB60	4	200	178	38	210.6	209.6	192	19	21	3	0.5	4	1	10°	SP-200B
110	SAPF102020183028NB60	3	202	183	28	206	205	195	12.5	14.5	2.8	0.5	5	1	10°	SP-202B
111	SAPF102030186254NB60	3	203	186	25.4	205.7	204.9	190.5	14.5	16	2.3	0.5	2.8	1	10°	SP-203B
112	SAPF102100191028NB60	3	210	191	28	214	213	203	12.5	14.5	2.8	0.5	5	1	10°	SP-210B
113	SAPF102100185038NB60	3	210	185	38	215.43	214.43	197.55	18.4	20.3	3.7	0.5	6.3	1	10°	SP-210B
114	SAPF102100182038NB60	3	210	182	38	215.5	214.5	197.5	18	20.5	3.1	0.5	6.5	1	10°	SP-210B
115	SAPF121031824046NB60	6.3	210.3	182.4	46	215.4	214.4	197.5	18.4	24.1	3.7	0.5	6.3	1	10°	SP-210.3B
116	SAPF102150192033NB60	4	215	192	33	220.8	219.8	207	16.5	18.5	3	0.5	4	1	10°	SP-215B
117	SAPF121650195318NB60	3	216.5	195	31.8	221	220	207	14.5	17	2.8	0.5	5	1	10°	SP-216.5B
118	SAPF122230202265NB60	3	222.3	202	26.5	224.9	224.1	217.9	11.8	14.2	2.9	0.5	2.8	1	10°	SP-222.3B
119	SAPF122282087026NB60	3	222.8	208.7	26	225.4	224.4	217	11.5	13.5	2.2	0.5	2.5	1	10°	SP-222.8B
120	SAPF102270205030NB60	3	227	205	30	231.5	230.5	219	14.5	17	2.8	0.5	5	1	10°	SP-227B
121	SAPF122850200038NB60	3	228.5	200	38	233.5	232.5	215.5	18	20.5	3.1	0.5	6.5	1	10°	SP-228.5B
122	SAPF122952155027NB60	3	229.5	215.5	27	235	233.7	226	12.1	13.6	2.8	0.5	1.2	1	16°	SP-229.5B
123	SAPF102340209042NB60	4	234	209	42	242.6	241.6	224	19.5	22.5	3	0.5	4	1	10°	SP-234B
124	SAPF123950220318NB60	3	239.5	220	31.8	244	243	232	14.5	16.5	2.8	0.5	5	1	10°	SP-239B
125	SAPF102410220025NB60	3	241.4	220	25	244.7	244	233.5	11	13.5	2.2	0.5	4	1	10°	SP-241B
126	SAPF125142235038NB60	6	251.4	223.5	38	256.5	255.7	238.7	18.4	20.3	3.7	0.5	6.3	1	10°	SP-251.4B
127	SAPF125152235046NB60	6	251.5	223.5	46	256.6	255.7	238.7	22	24	3.7	0.5	6.3	3	10°	SP-251.5/46B
128	SAPF102520225038NB60	4	252	225	38	258	257	241	19	21	3	0.5	4	1	10°	SP-252B
129	SAPF125962316038NB60	6	259.6	231.6	38	264.7	263.7	247	18.4	20.5	3.7	0.5	6.3	1	10°	SP-259.6B
130	SAPF102610238318NB60	3	261	238	31.8	265.5	264.5	254	14.5	17	2.8	0.5	5	1	10°	SP-261B
131	SAPF126280240038NB60	3	262.8	240	38	273.5	272.5	255.5	18	20.5	3.1	0.5	6.5	1	10°	SP-262.8B
132	SAPF126450245032NB60	3	264.5	245	32	268.9	267.9	255	14.5	17	2.8	0.5	5	1	10°	SP-264.5B
133	SAPF102680239042NB60	4	268	239	42	274.2	273.2	257	20.5	22.5	3	0.5	4	1	10°	SP-268B
134	SAPF102700250030NB60	3	270	250	30	274.7	273.7	262	14	15.5	2.8	0.5	0.5	1	10°	SP-270B
135	SAPF102760250044NB60	4	276	250	44	284.6	283.6	266	20.5	24	3	0.5	4	1	10°	SP-276B

Note: (1) All Dimensions are in MM. (2) Elastomeric O-Ring Material can be Customised Predicated Upon Special Application Requirements.

O-Ring (DO/PADO) Style

Forged Steel



SR.No.	SAP PART No.	A	ØDa	ØDi	H	ØDh	ØDe	ØDf	T1	T2 min	T3	Re	Rk	Rs	α°	INSTALLATION TOOL
136	SAPF128050252038NB60	3	280.5	252	38	285.5	284.5	267.5	18	20.5	3.1	0.5	6.5	1	10°	SP-280B
137	SAPF102930265038NB60	3	293	265	38	298	297	280	18	20.5	3.1	0.5	6.5	1	10°	SP-293B
138	SAPC102930265046NB60	6	293	265	46	297.8	297	280	18.4	24.1	3.7	0.5	6.3	1	10°	SP-293B
139	SAPF103030275038NB60	3	303	275	38	308	307	290	18	20.5	3.1	0.5	6.5	1	10°	SP-303B
140	SAPC103112825038NB60	3	311	282.5	38	316.3	315.4	298	18	20.5	3.1	0.5	6.5	1	10°	SP-311B
141	SAPF103250300038NB60	3	325	300	38	335.5	334.5	318	17.5	20.5	3.1	0.5	6.5	1	10°	SP-325B
142	SAPF103273035038NB60	3	327	303.5	38	333	332.1	315.12	18.4	20.3	3.7	0.5	6.3	0.5	10°	SP-327B
143	SAPF103280300040NB60	4	328	300	40	333	332	315	18.5	21	3	0.5	4	1	10°	SP-328B
144	SAPF103410318038NB60	3	341	318	38	351.5	350.5	334	17.5	20.5	3.1	0.5	6.5	1	10°	SP-341B
145	SAPF134643185038NB60	6	346.4	318.5	38	351.6	350.7	333.7	18.4	20.3	3.7	0.5	6.3	1	10°	SP-346.4B
146	SAPF134650319046NB60	3	346.5	319	46	351.6	350.7	333.7	18.4	24.1	3.7	0.5	6.3	1	10°	SP-346.5B
147	SAPF103680340040NB60	3	368	340	40	374.8	373.8	358	19	21.5	3	0.5	4	1	10°	SP-368B
148	SAPF103750350038NB60	3	375	350	38	385	384.5	368	17.5	20.5	3.1	0.5	6.5	1	10°	SP-375B
149	SAPF139443665038NB60	3	394.4	366.5	38	399.5	398.6	381.7	17.5	20.5	3	0.5	6.5	1	10°	SP-394.4B
150	SAPF103940369038NB60	3	394.4	369	38	399.5	398.6	381.7	17.5	20.5	3	0.5	6.5	1	10°	SP-394.4B
151	SAPF139453665048NB60	6	394.5	366.5	48	399.5	398.6	381.7	18.4	24.1	3.7	0.5	6.3	1	10°	SP-394.5B
152	SAPF139453672038NB60	6	394.5	367.2	38	399.5	398.6	381.7	18.4	20.3	3.7	0.5	6.3	1	10°	SP-394.5B
153	SAPF103980370038NB60	3	398	370	38	403.5	402.6	385	17.5	20.5	3	0.5	6.5	1	10°	SP-398B
154	SAPF104050382040NB60	6	405	382	40	412	411	395	17	22	3.8	1.1	6	3	10°	SP-405B
155	SAPF104150387038NB60	3	415	387	38	420.3	419.4	402	17.5	20.5	3	0.5	6.5	1	10°	SP-415B
156	SAPF104544285037NB60	4	454	428.5	37	462.3	461.3	444.6	18.5	21	3	0.5	4	1	10°	SP-454B
157	SAPF104570429038NB60	3	457	429	38	463.5	462.5	444	18	20.5	3	0.5	4	1	10°	SP-457B
158	SAPF145724292038NB60	6	457.2	429.2	38	462.3	461.4	444.4	18.4	20.3	3.7	0.5	6.3	1	10°	SP-457.2B
159	SAPF104950465436NB60	3	495	465	43.6	500.7	498.5	482.9	21.2	22.9	4.7	0.7	7	1	10°	SP-495B
160	SAPF105000470050NB60	3	500	470	50	512.2	510.2	490	23.5	25.5	4	0.5	6	1	10°	SP-500B
161	SAPF105330505436NB60	6	533.4	505	43.6	538.4	537.4	521	19.7	21.7	4	1.3	6.5	1	10°	SP-533.4B
162	SAPF105600530050NB60	3	560	530	50	572.2	570.2	545	23.5	25.5	4	0.5	6	1	10°	SP-560B
163	SAPF106080580436NB60	6	608	580	43.6	613	611	596	19.7	21.7	4	0.5	6.5	1	10°	SP-608B
164	SAPF106230591050NB60	5.25	623	591	50	635.2	632.1	613	23.5	25.5	4	0.5	6	1	10°	SP-623B
165	SAPF107000667044NB60	9	700	667	44	705.6	704.6	687.6	21.3	24	3.7	0.5	6.3	1	10°	SP-700B
166	SAPC107500718050NB60	6	750	718	50	761.7	760.2	740	23.5	25.5	4	0.5	6	1	10°	SP-750B
167	SAPC108860834080NB60	17	886	834	80	891.6	890.9	860	34.5	39.5	4.5	1.1	10	1	10°	SP-886B
168	SAPF110851030080NB60	17	1085	1030	80	1090.9	1089.9	1058	34.5	39.5	4.4	1.1	10	1	10°	SP-1085B
169	SAPF111051047080NB60	17	1105	1047	80	1110.9	1109.9	1078	34.5	39.5	4.4	1.1	10	1	10°	SP-1105B

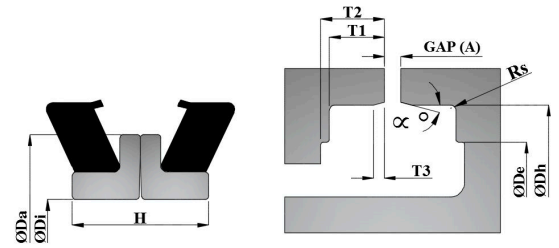
Note: (1) All Dimensions are in MM. (2) Elastomeric O-Ring Material can be Customised Predicated Upon Special Application Requirements.

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Square Bore (DF/HDDF/PADF) Style

Cast Iron (NI-HARD)



Sr.No.	SAP PART NO.	A	ØDa	ØDi	H	ØDh	Ø De	T1	T2	T3	Rs	α°
1	SAPC1L00590042020NB60	3	59	42	20	65	53	10	10.5	2	1	15°
2	SAPC1L62500485256NB60	1.5	62.5	48.5	25.6	76.3	62.9	10.6	14	1.6	1	30°
3	SAPC1L00650045022NB60	1.7	65	45	22	70.1	58	11.5	12.1	1.5	1	30°
4	SAPC1L00760056021NB60	1.7	76	56	21	82.55	70.1	10.6	11.7	1	1	30°
5	SAPC1L00800060024NB60	7	80	60	24	85	70	10.5	10.5	1	1	30°
6	SAPC1L00900076017NB60	2	90	76	17	95	83	8	9.5	1	1	30°
7	SAPC1L09280738020NB60	3	92.8	73.8	20	102.2	88	10	11	2	1	15°
8	SAPC1L01040088019NB60	4	104	88	19	113	98	8	9.5	1	1	20°
9	SAPC1L01050088023NB60	3	105	88	23	115.8	102	10	11	1.5	1	15
10	SAPC1L01120094228NB60	3	112	94	22.8	125.8	109	12	13	2.5	1	15
11	SAPC1L01200094025NB60	1.8	120	94	25	125.8	109.1	13	13.6	1.5	1	30°
12	SAPC1L01230099019NB60	3	123	99	19	127.3	113	10	11	3	1	15
13	SAPC1L01410115028NB60	1.7	141	115	28	152.4	131.4	15.9	15.9	1.5	1	30°
14	SAPC1L01430124034NB60	3.1	143	124	34	162.6	149.9	17.8	17.8	4	1.5	30°
15	SAPC1L01580132031NB60	3.2	158	132	31	171.5	151.8	15.4	15.9	1.5	1.5	30°
16	SAPC1L01611425024NB60	5.5	161	142.5	24	173	139.7	11.1	11.3	1.5	1	30°
17	SAPC1L01670147020NB60	1.52	167.49	147.32	20	174.63	160.32	10.67	10.67	1.57	0.64	45°
18	SAPC1L01720148029NB60	1.7	172	148	29	184.5	164.7	16.5	17.5	1.5	1.5	30°
19	SAPC1L01750150030NB60	5	175	150	30	190	170	13	15	0.5	1	15°
20	SAPC1L01950169033NB60	1.8	195	169	33	206.2	191.5	14.1	18.4	1.1	1	15°
21	SAPC1L02180192032NB60	1.8	218	192	32	231	206	15.2	17.1	1	1.5	30°
22	SAPC1L02220194034NB60	3	222	194	34	238.8	214.2	20.14	21	1.5	1	30°
23	SAPC1L02380201036NB60	2.1	238	201	36	254	235.5	21.2	21.2	1	1.5	30°
24	SAPC1L02382135274NB60	4.6	238	213.5	27.4	254	240	13.7	13.7	1.5	1	30°
25	SAPC1L02490215036NB60	2.44	249	215	36	255.57	234.95	18.59	20.39	0.62	1.5	45°
26	SAPF1L26050228041NB60	4	260.5	228	41	277.1	247.5	23.5	24.5	1.5	1	15°
27	SAPC1L02640239038NB60	1.5	264	239	38	279.4	261.9	17.5	20.2	1.57	1	30°
28	SAPC1L02652357030NB60	2.6	265	235.7	30	273.1	230	15.6	15.7	1.5	1	30°
29	SAPC1L02730239033NB60	1.5	273	239	33	279.4	261.9	17.5	20.2	1.57	1	30°
30	SAPC1L02820256030NB60	1.6	282	256	30	292.1	276.2	15.6	16.2	1.5	1	30°
31	SAPC1L03050283042NB60	3	305	283	42	329.4	307.3	18.5	22.1	1.5	1	15°
32	SAPC1L03253005030NB60	1.6	325	300.5	30	336.4	324.6	15.6	17.6	1.5	1.5	30°
33	SAPC1L032530303023NB60	3	325	303	23	331	318	10	12	1.5	1	30
34	SAPC1L35250320036NB60	2.1	352.5	320	36	365.1	343.7	18.4	20	1.6	1.5	30°
35	SAPC1L03530319036NB60	4.7	353	319	36	365.1	342.1	20	21.5	0.65	1.5	45
36	SAPC1L03923545038NB60	1.6	392	354.5	38	401.8	380.6	23	-	1.5	2	30°
37	SAPC1L04140378042NB60	1.6	414	378.25	42	424.1	402.9	23	23	1.5	2	30°
38	SAPC1L04570428040NB60	4.5	457	428	40.4	478	460	20.5	22	1.5	1	30
39	SAPC1L08000752056NB60	5.8	800	752	56	812.8	779	26.1	27.1	1.5	2	30°

Note: (1) All Dimensions are in MM. (2) Elastomeric O-Ring Material can be Customised Predicated Upon Special Application Requirements.

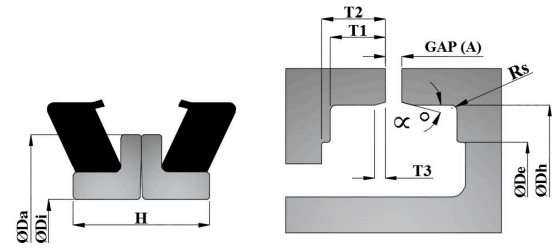
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Square Bore (DF/HDDF/PADF) Style

Forged Steel



Sr.No.	SAP PART NO.	A	ØDa	ØDi	H	ØDh	ØDe	T1	T2	T3	Rs	α°
1	SAPF1L00590042020NB60	3	59	42	20	65	53	10	10.5	2	1	15°
2	SAPF1L00620047020NB60	3	62	47	20	70	58	10	11	2	1	15°
3	SAPF1L00650505019NB60	2.5	65	50.5	19	76.2	63	10	11	2	1	15°
4	SAPF1L00730054022NB60	3	73	54	22	80	67	11.5	12	1.5	1	15°
5	SAPF1L00730585019NB60	3	73	58.5	19	82.5	65	10	11	2	1	15°
6	SAPF1L00800586196NB60	3	80	58.6	19.6	84	71	9	9.5	1.5	1	15°
7	SAPF1L00810635019NB60	3	81	63.5	19	87.8	71	9	9.5	1	1	15°
8	SAPF1L08620067020NB60	3	86.2	67	20	95.4	82	10	11	2	1	15°
9	SAPF1L00870067025NB60	4	87	67	25	95	81	12.5	13	1.5	1	15°
10	SAPF1L00900076017NB60	2	90	76	17	95	83	8	9.5	1	1	30°
11	SAPF1L09170067020NB60	3	91.7	67	20	95.4	82	10	11	2	1	15°
12	SAPF1L09280738020NB60	3	92.8	73.8	20	102.2	88	10	11	2	1	15°
13	SAPF1L00970077025NB60	4	97	77	25	105	87	12.5	13.5	1.5	1	15°
15	SAPF1L01000825022NB60	3.5	100	82.5	22	114.3	97	11	12	2	1	15°
16	SAPF1L01050817020NB60	3	101.5	81.7	20	110.2	96	10	11	2	1	15°
17	SAPF1L01090875175NB60	3	109	87.5	17.5	113	100	8.5	9.5	1.5	1	15°
18	SAPF1L11150875019NB60	3	111.5	87.5	19	115.8	102	10	11	1.5	1	15°
19	SAPF1L01120094228NB60	3	112	94	22.8	125.8	109	12.5	13	2.5	1	15°
20	SAPF1L01120092024NB60	3	112	92	24	125.8	109	12.5	13	2.5	1	15°
21	SAPF1L01200099175NB60	3	120	99	17.5	124	110	8.5	9.5	1.5	1	15°
22	SAPF1L01230099019NB60	3	123	99	19	127.3	113	10	11	3	1	15°
23	SAPF1L12381047275NB60	2	123.83	104.78	27.5	141.27	212.69	15.09	16.5	1.57	1.3	45
24	SAPF1L01240105244NB60	3	124	105	24.4	134.9	125	13.3	14.5	1.3	1	15°
25	SAPF1L01260104024NB60	4	126	104	24	135	114	12	13	2	1	15°
26	SAPF1L01330114026NB60	4	133.2	114	26	147.9	130	12	13	1.5	1	15°
27	SAPF1L01380114026NB60	4	138	114	26	148	126	12	13	2	1	15°
28	SAPF1L01420118029NB60	2	142	118	29	152.4	131.4	16.3	16.3	2	1	15°
29	SAPF1L01440124032NB60	3	144	124	32	162.5	141.5	18.5	20.5	1.5	1	15°
30	SAPF1L01560133028NB60	6.5	156	133	28	171.5	151	13	14	2	1	15°
31	SAPF1L01670147020NB60	1.52	167.49	147.32	20	174.63	160.32	10.67	10.67	1.57	0.64	45°
32	SAPF1L01681485324NB60	5	168	148.5	32.4	184.1	164	16.5	17.5	1.5	1	15°
33	SAPF1L01750150030NB60	5	175	150	30	190	170	15	15.5	2	1	15°
34	SAPF1L01800154036NB60	4.5	180	154	36	194	174	18.4	20	1.4	1	15°
35	SAPF1L01800158018NB60	6	180	158	18	190	174	8	10	1	1	15°
36	SAPF1L01950169033NB60	5	195	169	33	206.2	191.5	15.1	18.4	1.1	1	15°
37	SAPF1L02071777029NB60	3	207	177.7	29	218.9	197	16.6	17.5	1.6	1	15°
38	SAPF1L21450194031NB60	3	214.5	194	31	238.8	214	20.1	21	1.1	1	15°
39	SAPF1L02240198035NB60	6	224	198	35	245	223	17	17.5	2	1	15°
40	SAPF1L02590233035NB60	6	259	233	35	280	250	17	18	2	1	15°
41	SAPF1L26050228041NB60	4	260.5	228	41	277.1	247.5	23.5	24.5	1.5	1	15°
42	SAPF1L02640239038NB60	1.5	264	239	38	279.4	216.9	17.5	20.2	1.57	1	30°
43	SAPF1L27352415036NB60	2	273.5	241.5	36	279.4	260.6	17.5	20	1	1	15°
44	SAPF1L03030275036NB60	2	303	275	36	309.4	290	17.5	20	1	1	15°
45	SAPF1L03050283042NB60	3	305	283	42	329.4	307	18.5	22.1	1.5	1	15°

Note: (1) All Dimensions are in MM. (2) Elastomeric O-Ring Material can be Customised Predicated Upon Special Application Requirements.

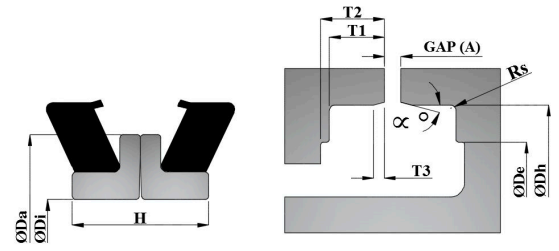
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Square Bore (DF/HDDF/PADF) Style

Forged Steel



Sr.No.	SAP PART NO.	A	ØDa	ØDi	H	ØDh	ØDe	T1	T2	T3	Rs	α°
46	SAPF1L35250320036NB60	2.1	352.5	320	36	365.1	343.7	18.4	20	1.6	1.5	30°
47	SAPF1L03923545038NB60	1.6	392	354.5	38	401.8	380.6	23	-	1.5	2	30°
48	SAPF1L04700442041NB60	2.5	470	442	41	488.7	467	18.4	22	1.4	1	15°
49	SAPF1L05300492043NB60	2	530	492	43	546.1	532	19.9	24.4	1.5	1	15°

Note: (1) All Dimensions are in MM. (2) Elastomeric O-Ring Material can be Customised Predicated Upon Special Application Requirements.