

Compact seal type 0820 PUR/O

Characteristics

Type: 0820 PUR/O

Principle of operation: Double acting

Max. operating pressure: 250 bar

Maximum speed: 0.5 m/s

Application

- Construction machinery , fork-lift trucks , injection moulding machines , agricultural machinery , cranes and standard cylinders.

Technical Information

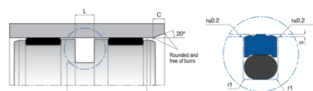
- Superior sealing performance
- Economic sealing and guiding solution
- Simple groove design , one-piece piston possible
- Long service life
- Simple snap installation

Operating Principle

- Easily assembled into one-piece piston because the back-up rings and guide rings are been produced in split forms. It is very important that the assembly tools must be of soft material and have no sharp edges. Before installation the sealing element must be oiled with system oil.

Options

- For special applications that require high temperatures , piston seal is manufactured in FKM and PTFE material.



OPERATING CONDITIONS			
MEDIA	Mineral oils (DIN 51524)	HFA and HFB	HFC
TEMPERATURE	from -30°C till +105°C	from +5°C till +60°C	from -30°C till +60°C
PRESSURE	max. 400 Bar	max. 400 Bar	max. 400 Bar
SPEED	max. 0.5 m/s	max. 0.5 m/s	max. 0.5 m/s
Note: The above data are maximum values and cannot be used at the same time.			

SURFACE ROUGHNESS	Ra	Rmax
Sliding Surface	max. 0.4 µm	max. 4.0 µm
Groove Base	max. 1.6 µm	max. 6.3 µm
Groove Flanks	max. 3.2 µm	max. 16 µm
Note: It is recommended to have 50% to 90% of the working surface material contact area value.		

Bore diameter	Groove diameter	Groove width	Material seal	Material energizer	Temperature range	Article
mm	mm	mm			°C	
15	7.5	3.2	PUR	NBR	-30 / 100	14409112
16	8.5	3.2	PUR	NBR	-30 / 100	14409111
20	12.5	3.2	PUR	NBR	-30 / 100	14409113
22	14.5	3.2	PUR	NBR	-30 / 100	14409114
25	14	4.2	PUR	NBR	-30 / 100	14408780
25	17.5	3.2	PUR	NBR	-30 / 100	12961730
30	22.5	3.2	PUR	NBR	-30 / 100	14409115
32	21	4.2	PUR	NBR	-30 / 100	14408781
32	24.5	3.2	PUR	NBR	-30 / 100	11800714
35	27.5	3.2	PUR	NBR	-30 / 100	14409116
38	30.5	3.2	PUR	NBR	-30 / 100	14409117
40	24.5	6.3	PUR	NBR	-30 / 100	14409119
40	29	4.2	PUR	NBR	-30 / 100	11282785

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Bore diameter	Groove diameter	Groove width	Material seal	Material energizer	Temperature range	Article
mm	mm	mm			°C	
40	32.5	3.2	PUR	NBR	-30 / 100	14409120
45	29.5	6.3	PUR	NBR	-30 / 100	14409121
45	34	4.2	PUR	NBR	-30 / 100	13286999
48	37	4.2	PUR	NBR	-30 / 100	12961734
49	38	4.2	PUR	NBR	-30 / 100	14408782
50	34.5	6.3	PUR	NBR	-30 / 100	14409122
50	39	4.2	PUR	NBR	-30 / 100	12961735
52	36.5	6.3	PUR	NBR	-30 / 100	14409123
54	43	4.2	PUR	NBR	-30 / 100	14408783
55	39.5	6.3	PUR	NBR	-30 / 100	12961736
55	44	4.2	PUR	NBR	-30 / 100	12961737
57.15	46.15	4.2	PUR	NBR	-30 / 100	14409124
60	44.5	6.3	PUR	NBR	-30 / 100	14409125
60	49	4.2	PUR	NBR	-30 / 100	11222518
63	47.5	6.3	PUR	NBR	-30 / 100	12961738
63	52	4.2	PUR	NBR	-30 / 100	14408784
63.5	52.5	4.2	PUR	NBR	-30 / 100	14409126
65	49.5	6.3	PUR	NBR	-30 / 100	13210859
65	54	4.2	PUR	NBR	-30 / 100	14408785
70	54.5	6.3	PUR	NBR	-30 / 100	11298198
70	59	4.2	PUR	NBR	-30 / 100	14408786
75	59.5	6.3	PUR	NBR	-30 / 100	12702287
75	64	4.2	PUR	NBR	-30 / 100	14408787
80	59	8.1	PUR	NBR	-30 / 100	14408788
80	64.5	6.3	PUR	NBR	-30 / 100	14028617
80	69	4.2	PUR	NBR	-30 / 100	12961739
85	69.5	6.3	PUR	NBR	-30 / 100	12961740
90	74.5	6.3	PUR	NBR	-30 / 100	12468867
95	79.5	6.3	PUR	NBR	-30 / 100	13194118
100	84.5	6.3	PUR	NBR	-30 / 100	11282784
100	89	4.2	PUR	NBR	-30 / 100	14408789
105	89.5	6.3	PUR	NBR	-30 / 100	14409127
110	94.5	6.3	PUR	NBR	-30 / 100	12961727
115	94	8.1	PUR	NBR	-30 / 100	14408790
115	99.5	6.3	PUR	NBR	-30 / 100	14409128
120	104.5	6.3	PUR	NBR	-30 / 100	14409129
125	104	8.1	PUR	NBR	-30 / 100	14408791
125	109.5	6.3	PUR	NBR	-30 / 100	12961728
130	114.5	6.3	PUR	NBR	-30 / 100	14409130
135	114	8.1	PUR	NBR	-30 / 100	14409131
140	119	8.1	PUR	NBR	-30 / 100	14409132
150	129	8.1	PUR	NBR	-30 / 100	14409133
160	139	8.1	PUR	NBR	-30 / 100	14409134
170	149	8.1	PUR	NBR	-30 / 100	14409135
180	159	8.1	PUR	NBR	-30 / 100	14409136
200	179	8.1	PUR	NBR	-30 / 100	12480937
250	229	8.1	PUR	NBR	-30 / 100	14409137

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