

Compact seal type 0820 PUR/R

Characteristics

Type: 0820 PUR/R

Principle of operation: Double acting

Max. operating pressure: 400 bar

Maximum speed: 0.5 m/s

Application

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

Technical Information

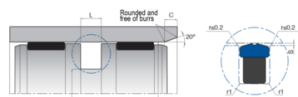
- Superior sealing performance
- Economic sealing and guiding solution
- Simple groove design , one-piece piston possible
- Long service life
- Simple snap installation

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	
25	17.5	3.2	PUR	NBR	-30 / 100	14413972
28	20.5	3.2	PUR	NBR	-30 / 100	14413983
32	21	4.2	PUR	NBR	-30 / 100	14413984
32	24.5	3.2	PUR	NBR	-30 / 100	14413985
35	24	4.2	PUR	NBR	-30 / 100	14215239
40	29	4.2	PUR	NBR	-30 / 100	14413986
45	34	4.2	PUR	NBR	-30 / 100	12935174
50	39	4.2	PUR	NBR	-30 / 100	14413987
55	39.5	6.3	PUR	NBR	-30 / 100	14413988
55	44	4.2	PUR	NBR	-30 / 100	14413989
60	44.5	6.3	PUR	NBR	-30 / 100	13146093
60	49	4.2	PUR	NBR	-30 / 100	14413990
63	47.5	6.3	PUR	NBR	-30 / 100	14413991

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Bore diameter	Groove diameter	Groove width	Material seal	Material energizer	Temperature range	Article
mm	mm	mm			°C	
63	52	4.2	PUR	NBR	-30 / 100	14413992
65	49.5	6.3	PUR	NBR	-30 / 100	13032828
65	54	4.2	PUR	NBR	-30 / 100	14413993
70	54.5	6.3	PUR	NBR	-30 / 100	14413994
70	59	4.2	PUR	NBR	-30 / 100	14413995
75	59.5	6.3	PUR	NBR	-30 / 100	14413996
75	64	4.2	PUR	NBR	-30 / 100	14413997
80	64.5	6.3	PUR	NBR	-30 / 100	14413998
85	69.5	6.3	PUR	NBR	-30 / 100	14413999
90	69	10.5	PUR	NBR	-30 / 100	14414001
90	74.5	6.3	PUR	NBR	-30 / 100	14414002
95	79.5	6.3	PUR	NBR	-30 / 100	14414003
100	79	8.1	PUR	NBR	-30 / 100	14414004
100	84.5	6.3	PUR	NBR	-30 / 100	14414005
105	89.5	6.3	PUR	NBR	-30 / 100	14414006
110	89	8.1	PUR	NBR	-30 / 100	14414007
110	94.5	6.3	PUR	NBR	-30 / 100	14414008
115	94	8.1	PUR	NBR	-30 / 100	14414009
120	99	8.1	PUR	NBR	-30 / 100	14414010
120	99	10.5	PUR	NBR	-30 / 100	14414011
125	104	8.1	PUR	NBR	-30 / 100	14414012
125	104	10.5	PUR	NBR	-30 / 100	14414013
130	109	8.1	PUR	NBR	-30 / 100	14414014
140	119	8.1	PUR	NBR	-30 / 100	14414015
150	129	8.1	PUR	NBR	-30 / 100	14457474
150	129	10.5	PUR	NBR	-30 / 100	13036436
160	139	8.1	PUR	NBR	-30 / 100	14414016
180	159	8.1	PUR	NBR	-30 / 100	14414017
200	179	8.1	PUR	NBR	-30 / 100	14414018

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