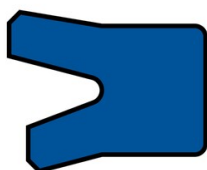


U-cup type 0020

Type 0020 is a single acting rod seal designed to have inner lip shorter than the outer lip in order to be used for rod applications.



Characteristics

Type: 0020

Max. operating pressure: 400 bar

Maximum speed: 0.5 m/s

Application

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

Technical Information

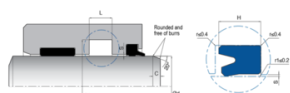
- Superior static and dynamic sealing effect
- Wide range of dimensions
- Easy assembly into closed grooves
- Simple groove design
- Economical sealing solution

Operating Principle

- Easily assembled into closed grooves according to the minimum diameter values that are given in the below table. Open grooves or special assembly tools should be used for the values that are outside this table. It is very important that the assembly tools must be of soft material and have no sharp edges. Before installation the rod seal must be oiled with system oil.

Options

- For special applications that require high temperatures , type 0020 can be produced in FKM material.



OPERATING CONDITIONS			
MEDIA	Mineral oils[DIN 51524]	HFA and HFB	HFC
TEMPERATURE	from -30°C till +100°C	from +5°C till +50°C	from -30°C till +40°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. 3.2 µm
Groove Base	max. 1.6 µm	max. 10 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.		

MINIMUM DIAMETER VALUES FOR CLOSED TYPE OF GROOVES							
[D-d]/2 (mm)	4	5	6	7.7	10	12.5	15
dmin (mm)	25	30	40	50	80	100	105

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PERMISSIBLE SEALING GAP			
PU	Smax (mm)		
t=[D-d]/2(mm)	150 Bar	250 Bar	400 Bar
t less/equal to 5	0.30	0.20	0.15
t above 5	0.35	0.25	0.20

Note: The largest sealing gap value occurring on the non-pressurized side of the seal does have a vital importance for the function of the seal and in this respect it is quite important to use the S value lower than the above indicated numbers.

Rod diameter mm	Groove diameter mm	Groove width mm	Seal height mm	Material seal	Temperature range °C	Article
4	12	7	6	PUR	-40 / 100	11274407
20	28	6.5	5.5	PUR	-40 / 100	14192873
20	30	8	7	PUR	-40 / 100	10018074
22	30	8	7	PUR	-40 / 100	10018076
30	38	6.7	5.7	PUR	-40 / 100	10018249
30	38	9	8	PUR	-40 / 100	10018083
40	48	9	8	PUR	-40 / 100	10018084
40	50	11	10	PUR	-40 / 100	10018117
45	55	11	10	PUR	-40 / 100	10018119
50	58	9	8	PUR	-40 / 100	10018086
50	60	11	10	PUR	-40 / 100	10018122
55	65	11	10	PUR	-40 / 100	10018124
56	66	9	8	PUR	-40 / 100	10018089
60	70	8	7	PUR	-40 / 100	10018090
63	78	11	10	PUR	-40 / 100	10018130
70	78	9	8	PUR	-40 / 100	10018091
70	80	13	12	PUR	-40 / 100	10018132
75	87	9.6	8.6	PUR	-40 / 100	10018258
80	90	13	12	PUR	-40 / 100	10018135
100	115	13	12	PUR	-40 / 100	10018418
100	120	15.5	14.5	PUR	-40 / 100	10018419
130	150	16	15	PUR	-40 / 100	10018425
150	170	16	15	PUR	-40 / 100	10018426
160	180	16	15	PUR	-40 / 100	10018427
				PUR		10018123
				PUR		10018115
				PUR		10018118
				PUR		10018253
				PUR		10018072
				PUR		10018256
				PUR		10018082
				PUR		10018260
				PUR		10018247
				PUR		10018502
				PUR		10018250
				PUR		10018113
				PUR		10018079
				PUR		10018111
				PUR		10018126
				PUR		10018080
				PUR		10018077
				PUR		10018128
				PUR		10018421

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Rod diameter mm	Groove diameter mm	Groove width mm	Seal height mm	Material seal	Temperature range °C	Article
				PUR		10018245
				PUR		10018423
				PUR		10018265
				PUR		10018251
				PUR		10018116
				PUR		10018081
				PUR		10018073
				PUR		10018127
				PUR		10018246
				PUR		10018112
				PUR		10018429
				PUR		10018133
				PUR		10018087

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