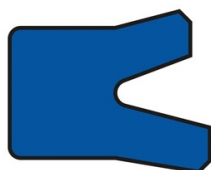


U-cup type 9020P PUR



Characteristics

Type: 9020P

Principle of operation: Single 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

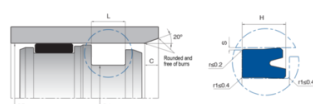
- Superior sealing performance
- Economic sealing and guiding solution
- Simple groove design , one-piece piston possible
- Long service life
- Simple snap installation

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	Seal height	Material seal	Temperature range	Article
mm	mm	mm	mm		°C	Max. 200 articles in the table
12.5	4.5	4.5	4	PUR	-40 / 100	14440919
12.7	6.35	5.2	4.76	PUR	-40 / 100	14440920
13.8	8.6	3.3	2.8	PUR	-40 / 100	14440921
14	6	7	6	PUR	-40 / 100	14440924
14	6	9	8	PUR	-40 / 100	14440922
14	8	5	4.5	PUR	-40 / 100	14440923
15	9	9	8	PUR	-40 / 100	14440925
16	6	11	10	PUR	-40 / 100	14440926
16	8	6.5	5.5	PUR	-40 / 100	14440928
16	9	6.5	5.5	PUR	-40 / 100	14440927
16	10	4.5	4	PUR	-40 / 100	12213538
16	10	6.5	5.5	PUR	-40 / 100	14440893
16	10	9	8	PUR	-40 / 100	14440894

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Bore diameter	Groove diameter	Groove width	Seal height	Material seal	Temperature range	Article
mm	mm	mm	mm		°C	Max. 200 articles in the table
16	11	4	3.5	PUR	-40 / 100	14440929
17.46	12.05	3.5	3.17	PUR	-40 / 100	14440930
19.05	12.7	3.5	3.17	PUR	-40 / 100	14440931
20	12	6.5	5.5	PUR	-40 / 100	12042588
20	14	4.7	4.2	PUR	-40 / 100	14440933
20	14	6.5	5.5	PUR	-40 / 100	14440932
20.63	14.28	7	6.35	PUR	-40 / 100	14440934
22	10	9	8	PUR	-40 / 100	14440936
22	13	8	7	PUR	-40 / 100	14440935
22	16	4.5	4	PUR	-40 / 100	14440939
22	16	6.5	5.5	PUR	-40 / 100	14440938
22.22	12.7	7	6.35	PUR	-40 / 100	14440937
25	15	6	5	PUR	-40 / 100	14440942
25	17	6.5	5.5	PUR	-40 / 100	11263774
25	19	3.5	3	PUR	-40 / 100	14440940
25	19	7	6	PUR	-40 / 100	14440941
26	18	6.5	5.5	PUR	-40 / 100	14440944
26	18	8	7	PUR	-40 / 100	14440943
26.99	17.46	7	6.35	PUR	-40 / 100	14440945
28	16	10	9	PUR	-40 / 100	14440946
28.57	19.05	7	6.35	PUR	-40 / 100	14440947
30	15	11	10	PUR	-40 / 100	14440948
30	20	8	7	PUR	-40 / 100	14440895
30	22	7	6	PUR	-40 / 100	12973667
31.75	19.05	7	6.35	PUR	-40 / 100	14440896
31.75	19.05	8.7	7.93	PUR	-40 / 100	14440897
32	22	6	5	PUR	-40 / 100	12369891
32	22	8	7	PUR	-40 / 100	14440898
32	24	6.5	5.5	PUR	-40 / 100	14440949
34.92	22.22	7	6.35	PUR	-40 / 100	14440950
35	20	11	10	PUR	-40 / 100	14440951
35	25	7.5	6.5	PUR	-40 / 100	11275688
35	25	8	7	PUR	-40 / 100	11470824
35	25	9	8	PUR	-40 / 100	14440881
35	27	6	5	PUR	-40 / 100	14440899
35	27	11	10	PUR	-40 / 100	12969605
36	24	7	6	PUR	-40 / 100	14440953
36	28	8	7	PUR	-40 / 100	14440952
36.51	25.4	7	6.35	PUR	-40 / 100	14440954
38	28	8	7	PUR	-40 / 100	14440956
38.1	25.4	8.7	7.93	PUR	-40 / 100	14440955
39	32	6	5	PUR	-40 / 100	14440957
39.69	26.99	7	6.35	PUR	-40 / 100	14440958
40	28	10	9	PUR	-40 / 100	14440960
40	28	11	10	PUR	-40 / 100	14440959
40	30	6	5	PUR	-40 / 100	14440879
40	30	7	6	PUR	-40 / 100	14440878
40	30	8	7	PUR	-40 / 100	12961612
40	32	3.5	3.25	PUR	-40 / 100	12772471
40	32	6	5.5	PUR	-40 / 100	14440886
41.27	30.16	7	6.35	PUR	-40 / 100	14440961
42.86	30.16	10.5	9.52	PUR	-40 / 100	14440962
43	35	10	9	PUR	-40 / 100	14440963

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Bore diameter	Groove diameter	Groove width	Seal height	Material seal	Temperature range	Article
mm	mm	mm	mm		°C	Max. 200 articles in the table
43	38	4.3	3.8	PUR	-40 / 100	14440964
44.45	28.57	10.5	9.52	PUR	-40 / 100	12337527
44.45	34.92	8	7	PUR	-40 / 100	14440965
45	35	7	6	PUR	-40 / 100	11330014
45	37	8	7	PUR	-40 / 100	14440967
45	38	7	6	PUR	-40 / 100	14440966
45	38	9	8	PUR	-40 / 100	14440968
47.62	31.75	8.7	7.93	PUR	-40 / 100	14440969
49.21	35.23	10.5	9.52	PUR	-40 / 100	14440970
50	38	7	6	PUR	-40 / 100	14440887
50	40	6	5	PUR	-40 / 100	14440882
50	40	7	6	PUR	-40 / 100	14440884
50	40	8	7	PUR	-40 / 100	11238481
50	42	11	10	PUR	-40 / 100	14440883
50.8	41.27	5.3	4.76	PUR	-40 / 100	14440971
50.8	41.27	7.8	7.14	PUR	-40 / 100	14440972
52	42	6	5	PUR	-40 / 100	14440973
53.97	38.1	10.5	9.52	PUR	-40 / 100	14440974
53.97	41.27	10.5	9.52	PUR	-40 / 100	14440975
55	45	7	6	PUR	-40 / 100	14440889
55	45	8	7	PUR	-40 / 100	12365697
55	45	8.5	7.5	PUR	-40 / 100	14440888
55	45	11	10	PUR	-40 / 100	11390514
55	47	9	8	PUR	-40 / 100	14440976
56	46	8	7	PUR	-40 / 100	14440977
57.15	41.27	10.5	9.52	PUR	-40 / 100	14440978
57.15	44.45	7	6.35	PUR	-40 / 100	14440979
60	44	13	12	PUR	-40 / 100	14440980
60	50	7	6	PUR	-40 / 100	14440877
60	50	8	7	PUR	-40 / 100	12825149
60	50	11	10	PUR	-40 / 100	12961621
60.32	47.62	7	6.35	PUR	-40 / 100	14440981
62	52	8	7	PUR	-40 / 100	14440982
63	48	13.2	12	PUR	-40 / 100	14440985
63	50	10	9	PUR	-40 / 100	14440983
63	53	4.8	4.3	PUR	-40 / 100	14440880
63	53	7	6	PUR	-40 / 100	11405379
63	53	8	7	PUR	-40 / 100	12961623
63.5	45.7	9.8	8.85	PUR	-40 / 100	11406497
63.5	47.62	10.5	9.52	PUR	-40 / 100	14006132
63.5	47.63	14	12.7	PUR	-40 / 100	14440986
63.5	53.97	7	6.35	PUR	-40 / 100	14440984
65	55	7	6	PUR	-40 / 100	14440900
65	55	8	7	PUR	-40 / 100	13462955
65	57	9	8	PUR	-40 / 100	14440987
66.67	50.8	9.8	8.85	PUR	-40 / 100	14440988
69.85	50.8	14	12.7	PUR	-40 / 100	14440989
69.85	53.97	8.7	7.93	PUR	-40 / 100	14440990
70	50	15	14	PUR	-40 / 100	12961624
70	60	7	6	PUR	-40 / 100	14440891
70	60	8	7	PUR	-40 / 100	12961625
70	60	11	10	PUR	-40 / 100	14440890
70	62	9	8	PUR	-40 / 100	14440901

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Bore diameter	Groove diameter	Groove width	Seal height	Material seal	Temperature range	Article
mm	mm	mm	mm		°C	Max. 200 articles in the table
73.02	63.5	6	5.56	PUR	-40 / 100	14440991
75	63	9.5	8.5	PUR	-40 / 100	14440993
75	65	7	6	PUR	-40 / 100	14440994
75	65	8.5	7.5	PUR	-40 / 100	14440992
76.2	58.04	9.6	8.73	PUR	-40 / 100	14440996
76.2	63.5	7	6.35	PUR	-40 / 100	14440995
80	60	13	12	PUR	-40 / 100	14440998
80	65	10	9	PUR	-40 / 100	14440903
80	65	11	10	PUR	-40 / 100	14440902
80	68	9.5	8.5	PUR	-40 / 100	14075093
80	70	7	6	PUR	-40 / 100	14440892
80	70	8	7	PUR	-40 / 100	12961627
80	70	13	12	PUR	-40 / 100	12961626
80	71	7.5	6.5	PUR	-40 / 100	14440997
80	72	13	12	PUR	-40 / 100	12961628
82	70	9	8	PUR	-40 / 100	14440999
85	75	7	6	PUR	-40 / 100	14441000
88.9	76.2	7	6.35	PUR	-40 / 100	14441001
90	75	10	9	PUR	-40 / 100	14441002
90	80	7	6	PUR	-40 / 100	14440904
90	80	8	7	PUR	-40 / 100	14440905
95	80	10	9	PUR	-40 / 100	14441004
95.25	76.2	10.5	9.52	PUR	-40 / 100	14441003
100	80	13	12	PUR	-40 / 100	12961410
100	85	10	9	PUR	-40 / 100	14440906
100	85	12.4	11.4	PUR	-40 / 100	14440910
100	85	13	12	PUR	-40 / 100	11387074
100	88	9.5	8.5	PUR	-40 / 100	12961610
100	90	7.5	6.5	PUR	-40 / 100	14440909
100	90	8	7.2	PUR	-40 / 100	12961613
100	90	9.5	8.5	PUR	-40 / 100	14440907
100	90	11.5	10.5	PUR	-40 / 100	14440908
101.6	88.9	7.35	6.35	PUR	-40 / 100	14441005
110	95	11	10	PUR	-40 / 100	14440911
110	100	8	7	PUR	-40 / 100	14441006
112	98	10	9	PUR	-40 / 100	14441007
115	95	13	12	PUR	-40 / 100	14441009
115	100	7	6	PUR	-40 / 100	14441008
120	95	16	15	PUR	-40 / 100	14441011
120	100	13	12	PUR	-40 / 100	12605815
120	105	10	9	PUR	-40 / 100	14440912
120	110	13	12	PUR	-40 / 100	14441010
125	105	13	12	PUR	-40 / 100	14440913
125	105	16	15	PUR	-40 / 100	11800513
125	110	10	9	PUR	-40 / 100	14440885
125	110	11	10	PUR	-40 / 100	12999420
125	115	8.2	7.2	PUR	-40 / 100	14441012
127	113	11	10	PUR	-40 / 100	14441013
130	110	13	12	PUR	-40 / 100	14441014
130	115	10	9	PUR	-40 / 100	14441015
135	120	10	9	PUR	-40 / 100	14441016
140	120	13	12	PUR	-40 / 100	13174457
140	120	16	15	PUR	-40 / 100	14440915

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Bore diameter	Groove diameter	Groove width	Seal height	Material seal	Temperature range	Article
mm	mm	mm	mm		°C	Max. 200 articles in the table
140	120	17	16	PUR	-40 / 100	14440914
140	125	10	9	PUR	-40 / 100	14441018
140	125	16	15	PUR	-40 / 100	14441017
145	130	11	10	PUR	-40 / 100	14441019
150	135	9	8	PUR	-40 / 100	14441020
150	135	10	9	PUR	-40 / 100	14441021
152	130	11	10	PUR	-40 / 100	14441023
152	130	16	15	PUR	-40 / 100	14441022
152.4	139.7	15.27	14.27	PUR	-40 / 100	14441024
154	138	9	8	PUR	-40 / 100	14441025
155	140	10	9	PUR	-40 / 100	14441026
160	140	15	14	PUR	-40 / 100	14441027
160	145	10	9	PUR	-40 / 100	14441029
160	145	15	14	PUR	-40 / 100	14441028
170	145	20	19	PUR	-40 / 100	14441031
170	148	16	15	PUR	-40 / 100	14441030
170	150	16	15	PUR	-40 / 100	14441032
170	155	10	9	PUR	-40 / 100	14441033
175	155	15	14	PUR	-40 / 100	14441034
180	160	10	9	PUR	-40 / 100	14440916
180	160	13	12	PUR	-40 / 100	14440917
180	160	15	14	PUR	-40 / 100	11205347
180	160	17	16	PUR	-40 / 100	14440918
180	165	10	9	PUR	-40 / 100	14441035
190	170	17	16	PUR	-40 / 100	14441036
200	175	17	16	PUR	-40 / 100	14441037
200	180	15	14	PUR	-40 / 100	11273618

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