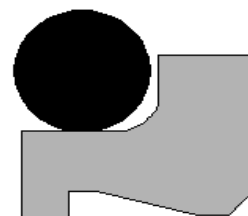


Design

The AB Seals WRPN is an O-ring energised double lip wiper, which is designed to exclude dirt from entering the Cylinder and to collect traces of fluid passing the rod seal. The standard design is made from bronze filled PTFE, activated by an NBR O-ring. A number of other material options can be provided to extend operating conditions. Please ensure that the correct part number is specified for the material option as indicated. The housing sizes listed meet ISO6195D.



NB: A vent between the seal and wiper is recommended to avoid a pressure trap

Features

- Protects primary seal from contamination
- Extends seal life
- Low friction no stick-slip
- High strength machined PTFE wiper
- Wide range of other materials and dimensions available for special applications

Materials

- Wiper Face - O Ring
- Standard material
PTFE/Bronze – NBR 7
- Material options:
PTFE/Bronze – FPM
- PTFE/Glass – NBR 7
- PTFE/Glass – FPM

Applications

- Mobile hydraulics
- Agriculture equipment
- Machine tools
- lift platforms

Technical details

Operating Conc

Maximum speed

Temperature R

Metric

5.0m/sce

-30

inch

15.0 ft/ sce

-22

Surface roughness

Dynamic Sealing Face ØD1

static sealing face Ød1

static housing faces L1

umRa

0.1<>0.4

2.5 max

2.5 max

umrt

4 max

16 max

16 max

Uin CLA

4<>16

100 max

100 max

UIN RMS

5<>18

111 max

111 max

Radii

Rod Diamiter Ød1mm

max Fillet Rad r1 mm

max fillet rad r2 mm

Rod Diamiter Ød1in

max Fillet Rad r1 in

max fillet rad r2 in

< 50

0.4

0.2

all

0.01

0.02

< 90

0.4

0.4

all

0.01

0.02

< 200

0.4

0.6

all

0.01

0.02

>200

0.8

0.8

all

0.01

0.02

Tolerance

Rod

Piston

Ø d1

f9

f9

ØD1

H 11

0.02

ØD2

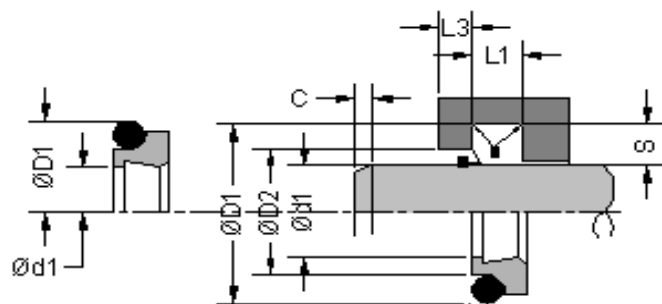
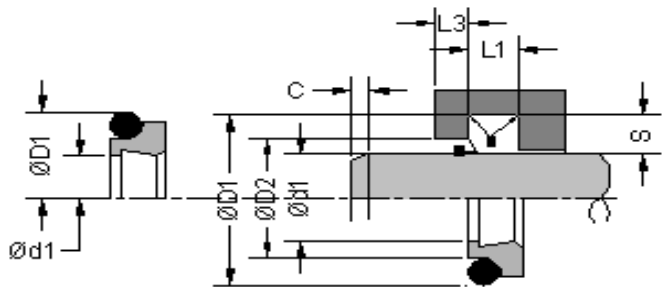
H 11

0.005

L1

0.2

0.02



METRIC:-

Ød1 f9	ØD1 H11	L1 0.2	ØD2 H11	L3 min	r3 max	PART NO.	Ød1 f9	ØD1 H11	L1 0.2	ØD2 H11	L3 min	r3 max	PART NO.
20	26.8	5	21.5	2	0.8	WR- 20x26.8x5	80	92.2	8.1	82	4	1	WR-80x92.2x8.1
22	28.8	5	23.5	2	0.8	WR- 22x28.8x5	90	98.8	6.3	91.5	3	1	WR-90x98.8x6.3
25	31.8	5	26.5	2	0.8	WR- 25x31.8x5	90	102.2	8.1	92	4	1	WR- 90x102.2x8.1
28	34.8	5	29.5	2	0.8	WR- 28x34.8x5	100	108.8	6.3	101.5	3	1	WR- 100x108.8x6.3
32	38.8	5	33.5	2	0.8	WR- 32x38.8x5	100	112.2	8.1	102	4	1	WR- 100x112.2x8.1
36	42.8	5	37.5	2	0.8	WR- 36x42.8x5	110	118.8	6.3	111.5	3	1	WR- 110x118.8x6.3
40	46.8	5	41.5	2	0.8	WR- 40x46.8x5	110	122.2	8.1	112	4	1	WR- 110x122.2x8.1
40	48.8	6.3	41.5	3	0.8	WR- 40x48.8x6.3	125	133.8	6.3	126.5	3	1	WR- 125x133.8x6.3
45	51.8	5	46.5	2	0.8	WR- 45x51.8x5	125	137.2	8.1	127	4	1	WR- 125x137.2x8.1
45	53.8	6.3	46.5	3	0.8	WR- 45x53.8x6.3	140	152.2	8.1	142	4	1	WR- 140x152.2x8.1
50	56.8	5	51.5	2	0.8	WR- 50x56.8x5	140	156	9.5	142.5	5	1.5	WR- 140x156x9.5
50	58.8	6.3	51.5	3	0.8	WR- 50x58.8x6.3	160	172.2	8.1	162	4	1	WR- 160x172.2x8.1
56	62.8	5	57.5	2	0.8	WR- 56x62.8x5	160	176	9.5	162.5	5	1.5	WR- 160x176x9.5
56	64.8	6.3	57.5	3	0.8	WR- 56x64.8x6.3	180	192.2	8.1	182	4	1	WR- 180x192.2x8.1
63	69.8	5	64.5	2	0.8	WR- 63x69.8x5	180	196	9.5	182.5	5	1.5	WR- 180x196x9.5
63	71.8	6.3	64.5	3	0.8	WR- 63x71.8x6.3	200	212.2	8.1	202	4	1	WR- 200x212.2x8.1
70	78.8	6.3	71.5	3	1	WR- 70x78.8x6.3	200	216	9.5	202.5	5	1.5	WR- 200x216x9.5
70	82.2	8.1	72	4	1	WR- 70x82.2x8.1	220	232.2	8.1	222	4	1	WR- 220x232.2x8.1
80	88.8	6.3	81.5	3	1	WR- 80x88.8x6.3	220	236	9.5	222.5	5	1.5	WR- 220x236x9.5