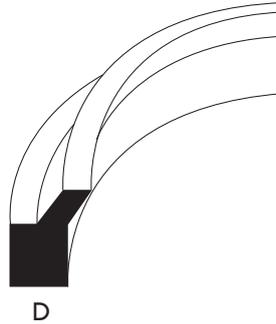


Wipers

D

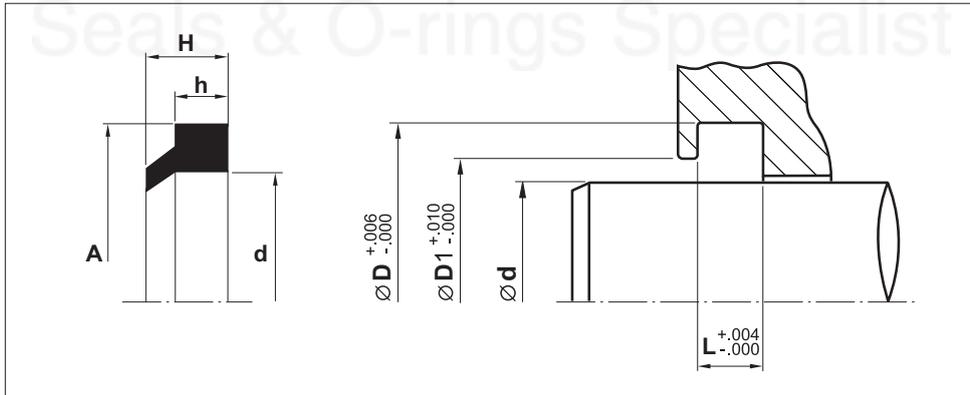
(Inch Size)



Material	Temp. (°C)	Speed (m/s)
PU	-35 +95	0.5

- Simple groove designed.
- Good scraping effect.
- Easy installation.
- Fit "Universal" style housing.

Installation Recommendation



Surface roughness

$\mu\text{in CLA}$

Sliding surface	4 to 16
Surface of housing	63 max
Sides of housing	125 max

Wiper - D



(Inch Size)

Wiper Dimensions				Groove Dimensions				Reference (For order processing)
Rod Dia.	Outer Dia.	Seal Step Height	Seal Height	Rod Dia.	Groove Dia.	Groove Width	Bore Dia.	
d	A	h	H	d	D	L	D1	
1/4	1/2	1/8	.210	250	.497	.124	.410	WP-00250 D
5/16	9/16	1/8	.210	312	.560	.124	.475	WP-00312 D
3/8	5/8	1/8	.210	375	.622	.124	.535	WP-00375 D
7/16	11/16	1/8	.210	437	.685	.124	.600	WP-00437 D
1/2	3/4	1/8	.210	500	.747	.124	.660	WP-00500 D
9/16	13/16	1/8	.210	562	.810	.124	.725	WP-00562 D
5/8	7/8	1/8	.210	625	.872	.124	.785	WP-00625 D
11/16	15/16	1/8	.210	687	.935	.124	.850	WP-00687 D
3/4	1-1/8	3/16	.305	750	1.122	.187	.995	WP-00750 D
13/16	1-3/16	3/16	.305	812	1.185	.187	1.060	WP-00812 D
7/8	1-1/4	3/16	.305	875	1.247	.187	1.120	WP-00875 D
15/16	1-5/16	3/16	.305	937	1.310	.187	1.185	WP-00937 D
1	1-3/8	3/16	.305	1000	1.372	.187	1.245	WP-01000 D
1-1/16	1-7/16	3/16	.305	1062	1.435	.187	1.310	WP-01062 D
1-1/8	1-1/2	3/16	.305	1125	1.497	.187	1.370	WP-01125 D
1-3/16	1-9/16	3/16	.305	1187	1.560	.187	1.435	WP-01187 D
1-1/4	1-5/8	3/16	.305	1250	1.622	.187	1.495	WP-01250 D
1-5/16	1-11/16	3/16	.305	1312	1.685	.187	1.560	WP-01312 D
1-3/8	1-3/4	3/16	.305	1375	1.747	.187	1.620	WP-01375 D
1-7/16	1-13/16	3/16	.305	1437	1.810	.187	1.685	WP-01437 D
1-1/2	1-7/8	3/16	.305	1500	1.872	.187	1.745	WP-01500 D
1-9/16	1-15/16	3/16	.305	1562	1.935	.187	1.810	WP-01562 D
1-5/8	2	3/16	.305	1625	1.997	.187	1.870	WP-01625 D
1-11/16	2-1/16	3/16	.305	1687	2.060	.187	1.935	WP-01687 D
1-3/4	2-1/8	3/16	.305	1750	2.122	.187	1.995	WP-01750 D
1-13/16	2-3/16	3/16	.305	1812	2.185	.187	2.060	WP-01812 D
1-7/8	2-1/4	3/16	.305	1875	2.247	.187	2.120	WP-01875 D
1-15/16	2-5/16	3/16	.305	1937	2.310	.187	2.185	WP-01937 D
2	2-1/2	1/4	.395	2000	2.497	.249	2.327	WP-02000 D
2-1/16	2-9/16	1/4	.395	2062	2.560	.249	2.390	WP-02062 D
2-1/8	2-5/8	1/4	.395	2125	2.622	.249	2.452	WP-02125 D
2-3/16	2-11/16	1/4	.395	2187	2.685	.249	2.515	WP-02187 D
2-1/4	2-3/4	1/4	.395	2250	2.747	.249	2.577	WP-02250 D
2-5/16	2-13/16	1/4	.395	2312	2.810	.249	2.640	WP-02312 D
2-3/8	2-7/8	1/4	.395	2375	2.872	.249	2.702	WP-02375 D
2-7/16	2-15/16	1/4	.395	2437	2.935	.249	2.765	WP-02437 D
2-1/2	3	1/4	.395	2500	2.997	.249	2.827	WP-02500 D
2-9/16	3-1/16	1/4	.395	2562	3.060	.249	2.890	WP-02562 D
2-5/8	3-1/8	1/4	.395	2625	3.122	.249	2.952	WP-02625 D
2-11/16	3-3/16	1/4	.395	2687	3.185	.249	3.015	WP-02687 D

Wiper - D

(Inch Size)

Wiper Dimensions				Groove Dimensions				Reference (For order processing)
Rod Dia.	Outer Dia.	Seal Step Height	Seal Height	Rod Dia.	Groove Dia.	Groove Width	Bore Dia.	
d	A	h	H	d	D	L	D1	
2-3/4	3-1/4	1/4	.395	2750	3.247	.249	3.077	WP-02750 D
2-13/16	3-5/16	1/4	.395	2812	3.310	.249	3.140	WP-02812 D
2-7/8	3-3/8	1/4	.395	2875	3.372	.249	3.202	WP-02875 D
2-15/16	3-7/16	1/4	.395	2937	3.435	.249	3.265	WP-02937 D
3	3-1/2	1/4	.395	3000	3.497	.249	3.327	WP-03000 D
3-1/8	3-5/8	1/4	.395	3125	3.622	.249	3.452	WP-03125 D
3-1/4	3-3/4	1/4	.395	3250	3.747	.249	3.577	WP-03250 D
3-3/8	3-7/8	1/4	.395	3375	3.872	.249	3.702	WP-03375 D
3-1/2	4	1/4	.395	3500	3.997	.249	3.827	WP-03500 D
3-5/8	4-1/8	1/4	.395	3625	4.122	.249	3.952	WP-03625 D
3-3/4	4-1/4	1/4	.395	3750	4.247	.249	4.077	WP-03750 D
3-7/8	4-3/8	1/4	.395	3875	4.372	.249	4.202	WP-03875 D
4	4-1/2	1/4	.395	4000	4.497	.249	4.327	WP-04000 D
4-1/8	4-5/8	1/4	.395	4125	4.622	.249	4.452	WP-04125 D
4-1/4	4-3/4	1/4	.395	4250	4.747	.249	4.577	WP-04250 D
4-3/8	4-7/8	1/4	.395	4375	4.872	.249	4.702	WP-04375 D
4-1/2	5-1/4	3/8	.585	4500	5.247	.374	4.993	WP-04500 D
4-5/8	5-3/8	3/8	.585	4625	5.372	.374	5.118	WP-04625 D
4-3/4	5-1/2	3/8	.585	4750	5.497	.374	5.243	WP-04750 D
4-7/8	5-5/8	3/8	.585	4875	5.622	.374	5.368	WP-04875 D
5	5-3/4	3/8	.585	5000	5.747	.374	5.493	WP-05000 D
5-1/8	5-7/8	3/8	.585	5125	5.872	.374	5.618	WP-05125 D
5-1/4	6	3/8	.585	5250	5.997	.374	5.743	WP-05250 D
5-3/8	6-1/8	3/8	.585	5375	6.122	.374	5.868	WP-05375 D
5-1/2	6-1/4	3/8	.585	5500	6.247	.374	5.993	WP-05500 D
5-5/8	6-3/8	3/8	.585	5625	6.372	.374	6.118	WP-05625 D
5-3/4	6-1/2	3/8	.585	5750	6.497	.374	6.243	WP-05750 D
5-7/8	6-5/8	3/8	.585	5875	6.622	.374	6.368	WP-05875 D
6	6-3/4	3/8	.585	6000	6.747	.374	6.493	WP-06000 D
6-1/4	7	3/8	.585	6250	6.997	.374	6.743	WP-06250 D
6-1/2	7-1/4	3/8	.585	6500	7.247	.374	6.993	WP-06500 D
6-3/4	7-1/2	3/8	.585	6750	7.497	.374	7.243	WP-06750 D
7	7-3/4	3/8	.585	7000	7.747	.374	7.493	WP-07000 D
7-1/4	8	3/8	.585	7250	7.997	.374	7.743	WP-07250 D
7-1/2	8-1/4	3/8	.585	7500	8.247	.374	7.993	WP-07500 D
7-3/4	8-1/2	3/8	.585	7750	8.497	.374	8.243	WP-07750 D
8	8-3/4	3/8	.585	8000	8.747	.374	8.493	WP-08000 D
8-1/4	9	3/8	.585	8250	8.997	.374	8.743	WP-08250 D
8-1/2	9-1/4	3/8	.585	8500	9.247	.374	8.993	WP-08500 D
8-3/4	9-1/2	3/8	.585	8750	9.497	.374	9.243	WP-08750 D

Wiper - D

(Inch Size)

Wiper Dimensions				Groove Dimensions				Reference (For order processing)
Rod Dia.	Outer Dia.	Seal Step Height	Seal Height	Rod Dia.	Groove Dia.	Groove Width	Bore Dia.	
d	A	h	H	d	D	L	D1	
9	9-3/4	3/8	.585	9000	9.747	.374	9.493	WP-09000 D
9-1/4	10	3/8	.585	9250	9.997	.374	9.743	WP-09250 D
9-1/2	10-1/4	3/8	.585	9500	10.247	.374	9.993	WP-09500 D
9-3/4	10-1/2	3/8	.585	9750	10.497	.374	10.243	WP-09750 D
10	11	1/2	.775	10000	10.997	.499	10.659	WP-10000 D
10-1/4	11-1/4	1/2	.775	10250	11.247	.499	10.909	WP-10250 D
10-1/2	11-1/2	1/2	.775	10500	11.497	.499	11.159	WP-10500 D
10-3/4	11-3/4	1/2	.775	10750	11.747	.499	11.409	WP-10750 D
11	12	1/2	.775	11000	11.997	.499	11.659	WP-11000 D
11-1/4	12-1/4	1/2	.775	11250	12.247	.499	11.909	WP-11250 D
11-1/2	12-1/2	1/2	.775	11500	12.497	.499	12.159	WP-11500 D
11-3/4	12-3/4	1/2	.775	11750	12.747	.499	12.409	WP-11750 D
12	13	1/2	.775	12000	12.997	.499	12.659	WP-12000 D
12-1/2	13-1/2	1/2	.775	12500	13.497	.499	13.159	WP-12500 D
13	14	1/2	.775	13000	13.997	.499	13.659	WP-13000 D
13-1/4	14-1/4	1/2	.775	13250	14.247	.499	13.909	WP-13250 D
13-1/2	14-1/2	1/2	.775	13500	14.497	.499	14.159	WP-13500 D
13-3/4	14-3/4	1/2	.775	13750	14.747	.499	14.409	WP-13750 D
14	15	1/2	.775	14000	14.997	.499	14.659	WP-14000 D
14-1/2	15-1/2	1/2	.775	14500	15.447	.499	15.159	WP-14500 D
14-3/4	15-3/4	1/2	.775	14750	15.747	.499	15.409	WP-14750 D
15	16	1/2	.775	15000	15.997	.499	15.659	WP-15000 D
15-1/2	16-1/2	1/2	.775	15500	16.447	.499	16.159	WP-15500 D
16	17	1/2	.775	16000	16.997	.499	16.659	WP-16000 D
16-1/2	17-1/2	1/2	.775	16500	17.447	.499	17.159	WP-16500 D
18	19	1/2	.775	18000	18.997	.499	18.659	WP-18000 D
18-1/2	19-1/2	1/2	.775	18500	19.447	.499	19.159	WP-18500 D
20	21	1/2	.775	20000	20.997	.499	20.659	WP-20000 D