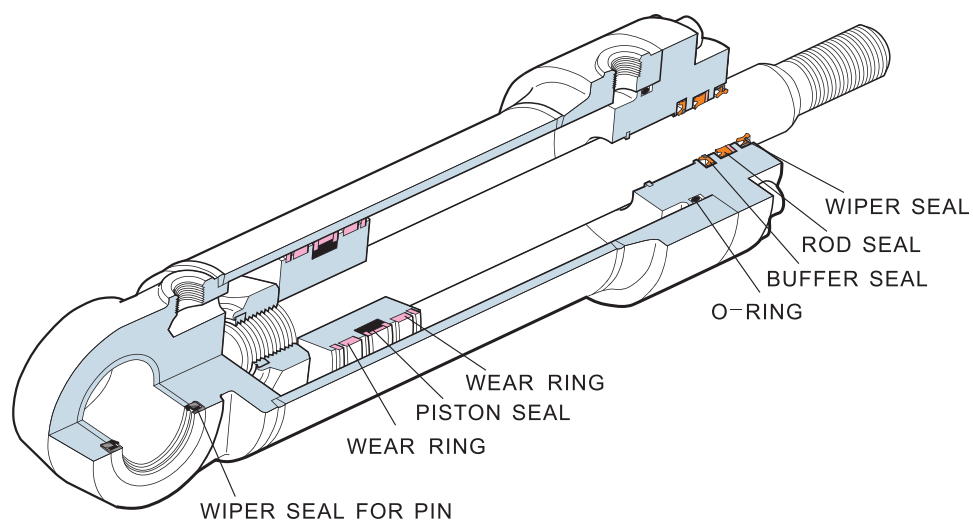


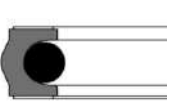


IMPERIAL HYDRAULIC SEALS

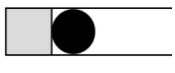
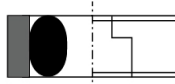
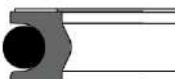


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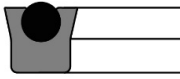
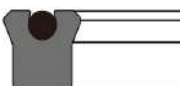
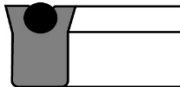
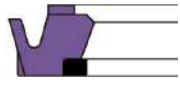
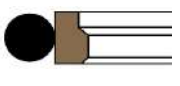
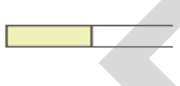
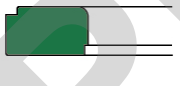
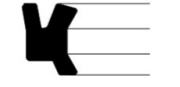
INDEX

ITEM	PROFILE	TYPE	MATERIAL	TEMPERATURE	PRESSURE (psi)	SPEED (ft/s)	PAGE
PISTON SEAL		OU1	PU	-40°F~248°F	5000	3.2	1-3
		TGW	PTFE+NY+NBR	-86°F~248°F	7000	4.9	4
		TAS	NBR+POM+HY	-22°F~212°F	5600	1.6	5-6
		CQ1	PTFE+NBR	-31°F~248°F	5000	4.9	7
		CO1	PTFE+NBR	-40°F~230°F	7200	6.5	8-9
		TSP	NBR+NY	-40°F~212°F	3500	3.2	10
		CR1	HY+NBR PU+NBR	-31°F~212°F	5000	3.2	11
		TPG3	HY+NBR PU+NBR	-22°F~212°F	5000	4.9	12
		TPG5	HY+NBR PU+NBR	-22°F~212°F	5000	4.9	13-14
		PH	HY+NBR	-40°F~230°F	6000	5	15-16
		PHR	HY+NBR	-40°F~230°F	6000	5	17
		TG	PTFE+NBR	-40°F~230°F	5000	4.9	18-19

INDEX

ITEM	PROFILE	TYPE	MATERIAL	TEMPERATURE	PRESSURE (psi)	SPEED (ft/s)	PAGE
PISTON SEAL		TD	PTFE+NBR	-31°F~230°F	5000	4.9	20-22
		TO1	PTFE+NBR	-31°F~230°F	5000	4.9	23
		TGA	NY+NBR	-31°F~230°F	5000	4.9	24-25
		VP1	HY+NY	-40°F~212°F	7000	1.6	26
		Guidelock	NY	-40°F~212°F	—	—	27
		TGO	PTFE+NBR	-31°F~230°F	4900	4.9	28
ROD SEAL		DRU	PU	-40°F~230°F	5600	1.6	29-30
		RU1	PU	-40°F~230°F	7000	1.6	31-34
		RV1	PU+NBR	-50°F~230°F	6000	3	35
		RP1	PU+NBR+POM	-50°F~230°F	7000	1.6	36-37
		TSR	NBR+NY	-40°F~212°F	3500	3.2	38
		CR1	PU+NBR	-31°F~212°F	5000	3.2	38
PISTON / ROD SEAL		RX1	PU+NBR	-40°F~248°F	5600	1.6	39-44

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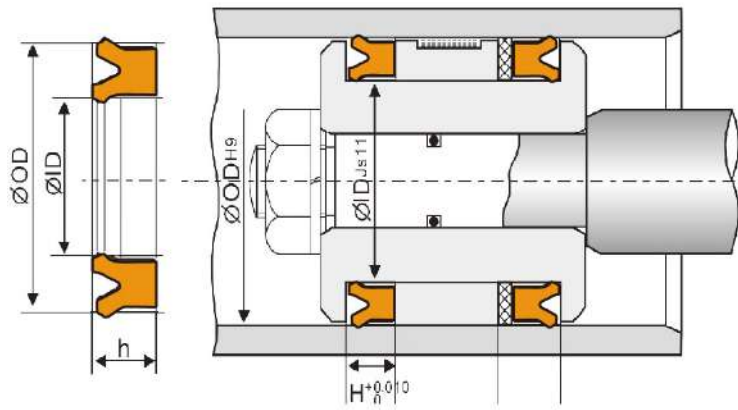
ITEM	PROFILE	TYPE	MATERIAL	TEMPERATURE	PRESSURE (psi)	SPEED (ft/s)	PAGE
PISTON / ROD SEAL		RZ1	HY+NBR PU+NBR	-40°F~212°F	5600	1.6	45-49
		UQ1	PU+NBR	-31°F~230°F	4200	1.6	50-56
		S13	PU+NBR	-40°F~230°F	5000	1.6	57-70
		DP1	PU+NBR	-40°F~230°F	5000	1.6	71-73
		8400	NBR	-13°F~230°F	1700	1.6	74
BUFFER SEAL		FB1	PU+NY	-40°F~248°F	5600	3.2	75
		BR1	PU+NY	-40°F~248°F	5000	1.6	76
		L-TYPE	NBR+PTFE	-40°F~230°F	5000	4.9	77-79
		FI1	PU	-40°F~212°F	5000	3.2	80
		HOI	PU	-40°F~212°F	5000	3.2	80
		BA1	TPU+NY	-31°F~248°F	10000	3	81
WIPER SEAL		AN1	PU	-31°F~212°F	—	3.2	82-83
		WH	NBR	-31°F~212°F	—	3.2	84
			FKM	-4°F~356°F	—	3.2	
		D-WIPER	PU	-40°F~230°F	—	13.1	85-86

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ITEM	PROFILE	TYPE	MATERIAL	TEMPERATURE	PRESSURE (psi)	SPEED (ft/s)	PAGE
WIPER SEAL		WY	PU	-40°F~212°F	—	3.2	87-88
		WA1	NBR	-30~+100°C	—	3.2	89-91
		DW1	PU+STEEL	-31°F~230°F	—	3.2	92-93
		DWP	NBR+STEEL	-40°F~212°F	—	—	94-95
		DK1	PU+STEEL	-4°F~176°F	—	3.2	96-97
		DK1Y	PU+STEEL	-31°F~230°F	—	3.2	98
		DWC	PU+STEEL	-31°F~230°F	—	3.2	99
WRNF RING		WRNF	NY+FIBER	-58°F~248°F	—	15	100-113
O RING		O RING	—	—	—	—	114-124
SQUARE RING		SQ	NBR	-22°F~212°F	—	—	125-135
X RING		X RING	NBR	—	—	—	136-140
BACKUP RING		AS-568	NBR	—	—	—	141-145
		AS-568	HY	-31°F~176°F	—	—	146-147
HEAD SEAL		HI	PU/NBR	-40°F~212°F	7000	—	148-149

HY: HYTREL NY: NYLON PU: POLYURETHANE

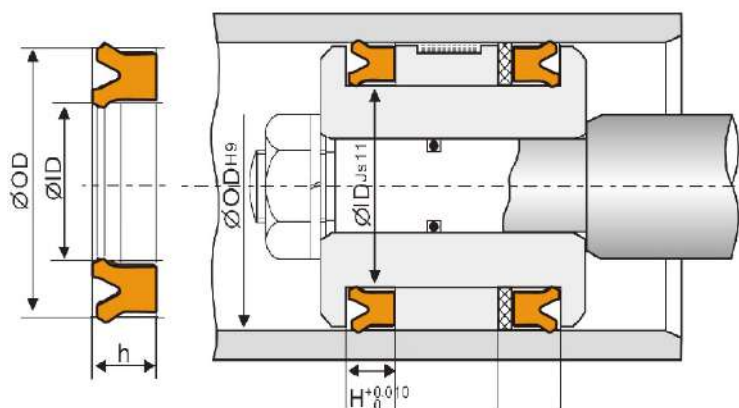
OU1 PISTON SEAL



APPLICATION	
MATERIAL	PU
TEMP.	-40°F~248°F
PRESSURE	5000 psi
SPEED	3.2 ft/s

ITEM	OD	ID	h	H
* OU1-0.750	0.750	0.375	0.312	0.344
* OU1-1.125	1.125	0.750	0.312	0.344
* OU1-1.250	1.250	0.875	0.250	0.275
OU1-1.500	1.500	1.000	0.250	0.275
* OU1-1.500	1.500	1.125	0.250	0.275
* OU1-1.500	1.500	1.250	0.250	0.275
OU1-1.687	1.687	1.187	0.250	0.275
* OU1-1.750	1.750	1.500	0.250	0.275
* OU1-2.000	2.000	1.375	0.500	0.550
OU1-2.000	2.000	1.500	0.375	0.413
* OU1-2.000	2.000	1.625	0.187	0.207
* OU1-2.000	2.000	1.625	0.312	0.344
* OU1-2.000	2.000	1.625	0.375	0.413
* OU1-2.250	2.250	1.750	0.375	0.413
* OU1-2.250	2.250	1.875	0.375	0.413
* OU1-2.500	2.500	1.625	0.500	0.550
* OU1-2.500	2.500	1.875	0.500	0.550
* OU1-2.500	2.500	2.000	0.250	0.275
OU1-2.500	2.500	2.000	0.375	0.413
* OU1-2.500	2.500	2.125	0.250	0.275
* OU1-2.500	2.500	2.125	0.312	0.344
* OU1-2.500	2.500	2.125	0.375	0.413
* OU1-3.000	3.000	2.250	0.455	0.500
* OU1-3.000	3.000	2.375	0.500	0.550
* OU1-3.000	3.000	2.500	0.250	0.275
OU1-3.000	3.000	2.500	0.375	0.413
* OU1-3.000	3.000	2.625	0.187	0.208
* OU1-3.000	3.000	2.625	0.375	0.413
* OU1-3.250	3.250	2.625	0.500	0.550
* OU1-3.250	3.250	2.750	0.250	0.275
* OU1-3.250	3.250	2.750	0.375	0.413
* OU1-3.250	3.250	2.875	0.250	0.275
* OU1-3.500	3.500	2.750	0.500	0.550
* OU1-3.500	3.500	2.750	0.625	0.688
OU1-3.500	3.500	2.875	0.312	0.344
* OU1-3.500	3.500	2.875	0.500	0.550

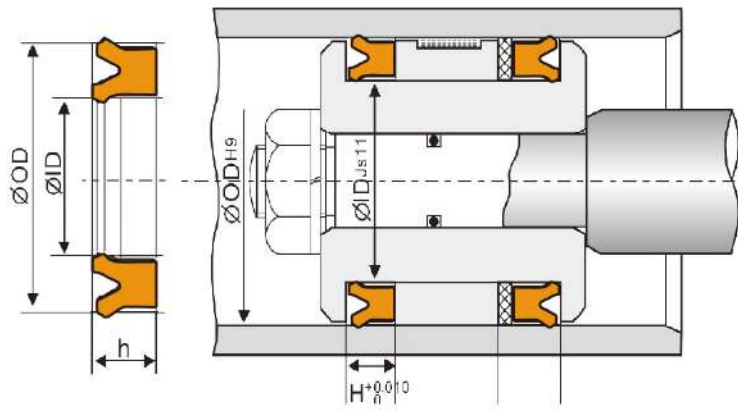
OU1 PISTON SEAL



APPLICATION	
MATERIAL	PU
TEMP.	-40°F~248°F
PRESSURE	5000 psi
SPEED	3.2 ft/s

ITEM	OD	ID	h	H
* OU1-3.500	3.500	3.000	0.250	0.275
OU1-3.500	3.500	3.000	0.375	0.413
* OU1-3.500	3.500	3.125	0.275	0.302
* OU1-3.500	3.500	3.125	0.375	0.413
* OU1-3.750	3.750	3.250	0.375	0.413
* OU1-4.000	4.000	3.250	0.375	0.413
* OU1-4.000	4.000	3.250	0.500	0.550
OU1-4.000	4.000	3.250	0.625	0.688
* OU1-4.000	4.000	3.375	0.500	0.550
* OU1-4.000	4.000	3.500	0.250	0.275
* OU1-4.000	4.000	3.500	0.312	0.344
OU1-4.000	4.000	3.500	0.375	0.413
* OU1-4.000	4.000	3.625	0.375	0.413
* OU1-4.250	4.250	3.750	0.375	0.413
OU1-4.500	4.500	3.750	0.625	0.688
* OU1-4.500	4.500	4.000	0.375	0.413
* OU1-4.750	4.750	4.379	0.275	0.302
* OU1-5.000	5.000	4.250	0.375	0.413
* OU1-5.000	5.000	4.250	0.500	0.550
OU1-5.000	5.000	4.250	0.625	0.688
* OU1-5.000	5.000	4.500	0.250	0.275
* OU1-5.000	5.000	4.500	0.375	0.413
* OU1-5.000	5.000	4.500	0.562	0.619
* OU1-5.250	5.250	4.500	0.500	0.550
* OU1-5.500	5.500	4.750	0.625	0.688
* OU1-6.000	6.000	5.250	0.375	0.413
* OU1-6.000	6.000	5.250	0.500	0.550
OU1-6.000	6.000	5.250	0.625	0.688
* OU1-6.000	6.000	5.500	0.250	0.275
* OU1-6.000	6.000	5.500	0.375	0.413
* OU1-6.000	6.000	5.500	0.562	0.619
* OU1-6.250	6.250	5.750	0.562	0.619
* OU1-6.500	6.500	5.750	0.625	0.688
* OU1-7.000	7.000	6.250	0.375	0.413
* OU1-7.000	7.000	6.250	0.500	0.550
OU1-7.000	7.000	6.250	0.625	0.688

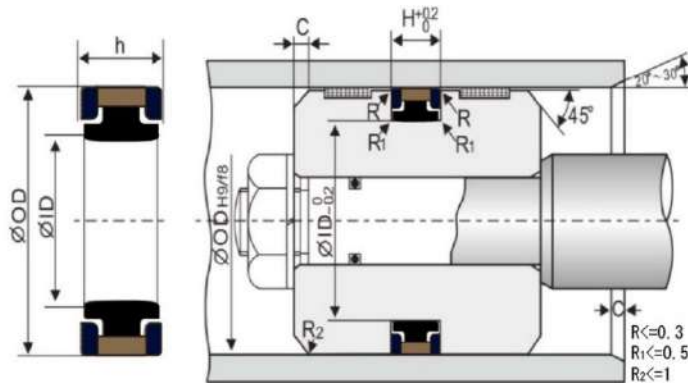
OU1 PISTON SEAL



APPLICATION	
MATERIAL	PU
TEMP.	-40°F~248°F
PRESSURE	5000 psi
SPEED	3.2 ft/s

ITEM	OD	ID	h	H
* OU1-7.000	7.000	6.500	0.250	0.275
* OU1-7.000	7.000	6.500	0.375	0.413
* OU1-8.000	8.000	7.250	0.625	0.688
* OU1-8.000	8.000	7.500	0.250	0.275
* OU1-9.000	9.000	8.000	0.750	0.825
* OU1-10.000	10.000	9.000	0.750	0.825
* OU1-10.000	10.000	9.250	0.375	0.413

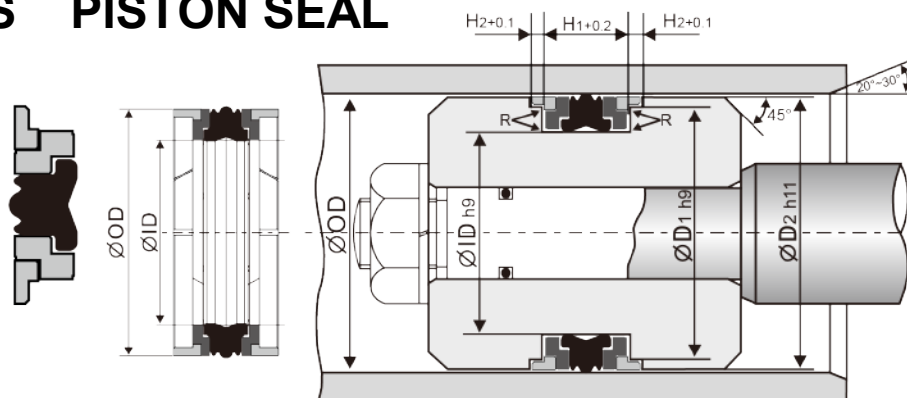
TGW PISTON SEAL



APPLICATION	
MATERIAL	PTFE+NY+NBR
TEMP.	-86°F~248°F
PRESSURE	7000 psi
SPEED	4.9 ft/s

ITEM	OD	ID	h
TGW-2.00	2.00	1.442	0.295
TGW-2.50	2.50	1.942	0.295
TGW-2.75	2.75	2.192	0.295
TGW-3.00	3.00	2.442	0.420
TGW-3.50	3.50	2.942	0.420
TGW-4.00	4.00	3.442	0.420
TGW-4.25	4.25	3.692	0.420
TGW-4.50	4.50	3.942	0.420
TGW-4.75	4.75	4.192	0.420
TGW-5.00	5.00	4.442	0.420
TGW-2.00	2.00	1.627	0.424
TGW-2.50	2.50	2.127	0.424
TGW-2.75	2.75	2.377	0.424
TGW-3.00	3.00	2.627	0.424
TGW-3.00	3.00	2.522	0.579
TGW-3.25	3.25	2.772	0.579
TGW-3.50	3.50	3.022	0.579
TGW-3.75	3.75	3.272	0.579
TGW-4.00	4.00	3.522	0.579
TGW-4.25	4.25	3.772	0.579
TGW-4.50	4.50	4.022	0.579
TGW-4.75	4.75	4.272	0.579
TGW-5.00	5.00	4.522	0.579
TGW-5.25	5.25	4.772	0.579
TGW-5.50	5.50	5.022	0.579
TGW-6.00	6.00	5.522	0.579
TGW-6.25	6.25	5.772	0.579
TGW-6.50	6.50	6.022	0.579
TGW-5.00	5.00	4.274	0.750
TGW-5.25	5.25	4.524	0.750
TGW-5.50	5.50	4.774	0.750
TGW-5.75	5.75	5.024	0.750
TGW-6.00	6.00	5.274	0.750
TGW-6.50	6.50	5.774	0.750
TGW-7.00	7.00	6.274	0.750
TGW-7.50	7.50	6.774	0.750
TGW-8.00	8.00	7.274	0.750
TGW-8.50	8.50	7.774	0.750
TGW-10.00	10.00	9.274	0.750
TGW-10.50	10.50	9.774	0.750
TGW-12.50	12.50	11.77	0.750

TAS PISTON SEAL

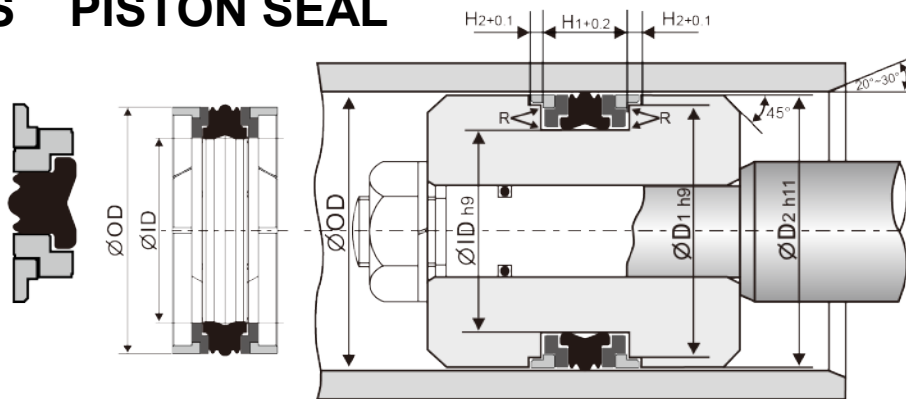


APPLICATION	
MATERIAL	POM+HY+NBR
TEMP.	-22°F~212°F
PRESSURE	5600 psi
SPEED	1.6 ft/s

UNIT : INCH

ITEM	OD	ID	H1	H2	D1	D2
* TAS-1.500	1.500	1.000	0.625	0.250	1.360	1.460
* TAS-1.500	1.500	1.125	0.443	0.150	1.324	1.437
* TAS-1.500	1.500	1.125	0.452	0.250	1.321	1.450
* TAS-1.750	1.750	1.125	0.750	0.250	1.569	1.698
* TAS-2.000	2.000	1.375	0.750	0.250	1.820	1.948
* TAS-2.000	2.000	1.500	0.587	0.250	1.821	1.950
* TAS-2.000	2.000	1.625	0.437	0.150	1.822	1.937
* TAS-2.125	2.125	1.500	0.750	0.250	1.945	2.075
* TAS-2.250	2.250	1.625	0.750	0.250	2.069	2.197
* TAS-2.375	2.375	1.750	0.750	0.250	2.194	2.322
TAS-2.500	2.500	1.875	0.750	0.250	2.318	2.446
TAS-2.500	2.500	1.875	0.875	0.250		
* TAS-2.500	2.500	2.000	0.587	0.250	2.321	2.450
* TAS-2.500	2.500	2.125	0.437	0.150	2.323	2.446
* TAS-2.500	2.500	2.125	0.437	0.228	2.323	2.446
* TAS-2.625	2.625	2.000	0.750	0.250	2.445	2.570
* TAS-2.750	2.750	2.000	0.937	0.250	2.524	2.690
TAS-3.000	3.000	2.250	0.937	0.250	2.774	2.940
* TAS-3.000	3.000	2.250	1.125	0.250		
TAS-3.000	3.000	2.250	1.187	0.250		
* TAS-3.000	3.000	2.375	0.750	0.250	2.794	2.920
* TAS-3.000	3.000	2.500	0.587	0.250	2.774	2.940
* TAS-3.000	3.000	2.625	0.437	0.150	2.820	2.937
* TAS-3.250	3.250	2.500	0.937	0.250	3.024	3.190
* TAS-3.250	3.250	2.625	0.772	0.245	3.021	3.184
TAS-3.500	3.500	2.750	0.937	0.250	3.274	3.440
* TAS-3.500	3.500	2.850	0.772	0.295	3.272	3.460
* TAS-3.500	3.500	2.750	1.187	0.250	3.235	3.437
* TAS-3.500	3.500	3.000	0.562	0.210	3.265	3.437
* TAS-3.500	3.500	3.000	0.587	0.250	3.273	3.440
* TAS-3.750	3.750	3.000	0.937	0.250	3.524	3.690
* TAS-4.000	4.000	3.250	0.780	0.250	3.771	3.934
TAS-4.000	4.000	3.250	0.937	0.250	3.774	3.940
* TAS-4.000	4.000	3.375	0.772	0.245	3.772	3.960
* TAS-4.250	4.250	3.500	0.937	0.250	4.024	4.187
* TAS-4.500	4.500	3.500	1.250	0.250	4.229	4.422
* TAS-4.500	4.500	3.500	1.750	0.500	4.180	4.400
* TAS-4.500	4.500	3.750	0.780	0.250	4.229	4.440

TAS PISTON SEAL

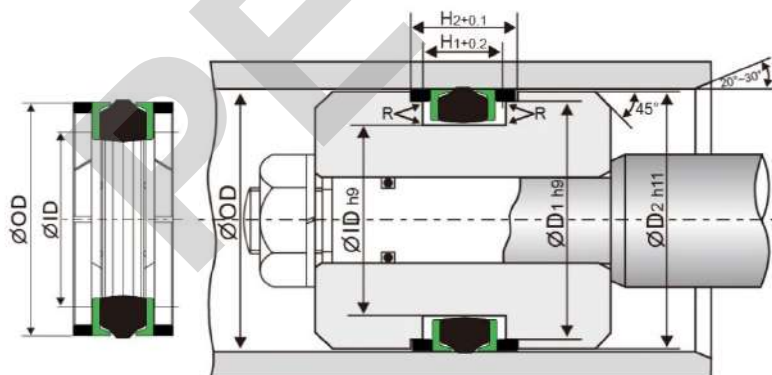


APPLICATION	
MATERIAL	POM+HY+NBR
TEMP.	-22°F~212°F
PRESSURE	5600 psi
SPEED	1.6 ft/s

UNIT : INCH

ITEM	OD	ID	H1	H2	D1	D2
* TAS-4.750	4.750	3.750	1.250	0.375	4.463	4.660
TAS-5.000	5.000	4.000	1.250	0.375	4.713	4.910
* TAS-5.000	5.000	4.000	1.250	0.400	4.709	4.902
* TAS-5.000	5.000	4.000	1.266	0.375	4.728	4.920
* TAS-5.000	5.000	4.250	0.780	0.375	4.710	4.910
* TAS-5.000	5.000	4.250	0.960	0.245	4.772	4.960
* TAS-5.250	5.250	4.250	1.250	0.250	4.977	5.177
* TAS-5.500	5.500	4.500	1.250	0.375	5.213	5.410
* TAS-6.000	6.000	5.000	1.750	0.500	5.675	5.900
* TAS-6.000	6.000	5.000	1.250	0.375	5.736	5.937
* TAS-6.000	6.000	5.250	0.780	0.375	5.710	5.910
* TAS-6.000	6.000	5.250	0.780	0.500	5.750	5.910
* TAS-6.500	6.500	5.497	1.280			
* TAS-6.500	6.500	5.500	1.256	0.254	6.213	6.402
* TAS-7.000	7.000	6.000	1.250	0.375	6.713	6.910
* TAS-8.000	8.000	6.750	1.500	0.315	7.681	7.920
* TAS-8.000	8.000	7.000	1.250	0.375	7.723	7.920

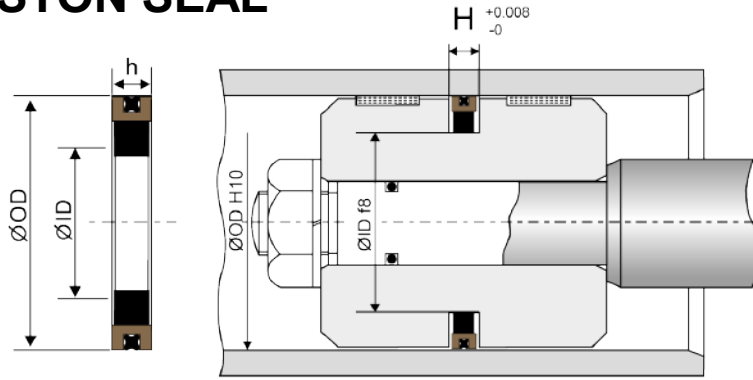
TAS PISTON SEAL



APPLICATION	
MATERIAL	POM+HY+NBR
TEMP.	-22°F~212°F
PRESSURE	5600 psi
SPEED	1.6 ft/s

ITEM	OD	ID	H1	H2	D1	D2
TAS-4.500	4.500	3.516	0.826	0.250	4.232	4.428
TAS-5.000	5.000	4.016	0.983	0.375	4.732	4.928
TAS-6.000	6.000	5.000	1.250	0.375	5.709	5.902
TAS-7.500	7.500	6.500	1.000	0.500		

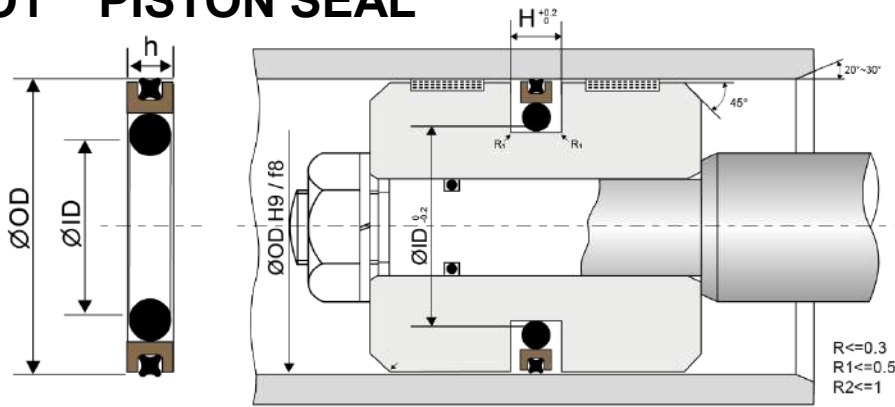
CQ1 PISTON SEAL



APPLICATION	
MATERIAL	PTFE+NBR
TEMP.	-31°F~248°F
PRESSURE	5000 psi
SPEED	4.9 ft/s

ITEM	OD	ID	H
* CQ1-1.50	1.50	1.076	0.210
CQ1-1.75	1.75	1.326	0.210
* CQ1-1.50	1.50	0.884	0.288
CQ1-2.00	2.00	1.384	0.288
CQ1-2.25	2.25	1.634	0.288
CQ1-2.50	2.50	1.884	0.288
* CQ1-2.75	2.75	2.134	0.288
CQ1-3.00	3.00	2.384	0.288
CQ1-3.25	3.25	2.634	0.288
CQ1-3.50	3.50	2.884	0.288
CQ1-3.75	3.75	3.134	0.288
CQ1-4.00	4.00	3.384	0.288
CQ1-4.25	4.25	3.634	0.288
CQ1-4.50	4.50	3.884	0.288
* CQ1-4.75	4.75	4.134	0.288
CQ1-5.00	5.00	4.384	0.288
* CQ1-5.25	5.25	4.542	0.288
CQ1-5.50	5.50	4.660	0.375
CQ1-5.75	5.75	4.910	0.375
CQ1-6.00	6.00	5.160	0.375
CQ1-6.50	6.50	5.660	0.375
CQ1-7.00	7.00	6.160	0.375
* CQ1-7.50	7.50	6.660	0.375
CQ1-8.00	8.00	7.160	0.375
* CQ1-9.00	9.00	8.160	0.375
* CQ1-10.00	10.00	9.160	0.375

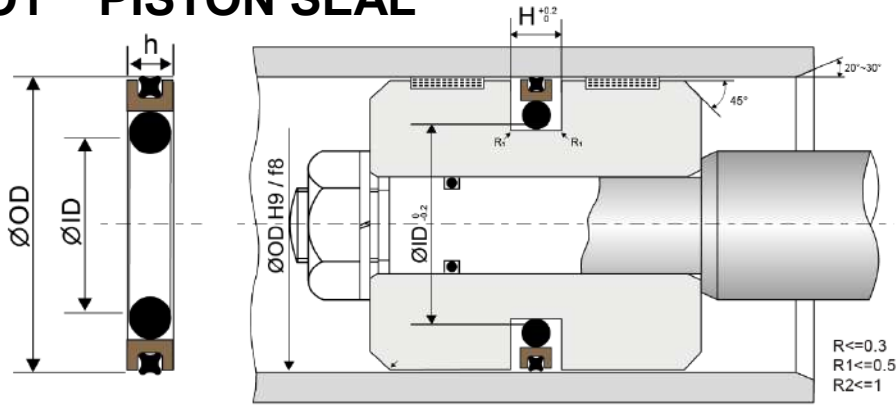
CO1 PISTON SEAL



APPLICATION	
MATERIAL	PTFE+NBR
TEMP.	-40°F~230°F
PRESSURE	7200 psi
SPEED	6.5 ft/s

ITEM	OD	ID	H
CO1-1.5	1.50	1.067	0.165
CO1-1.562	1.56	1.129	0.165
CO1-1.625	1.63	1.192	0.165
CO1-1.687	1.69	1.254	0.165
CO1-1.75	1.75	1.317	0.165
CO1-1.812	1.81	1.379	0.165
CO1-1.875	1.88	1.442	0.165
CO1-1.937	1.94	1.504	0.165
CO1-2	2.00	1.567	0.165
CO1-2.125	2.13	1.692	0.165
CO1-2.25	2.25	1.817	0.165
CO1-2.375	2.38	1.942	0.165
CO1-2.5	2.50	2.067	0.165
CO1-2.625	2.63	2.192	0.165
CO1-2.75	2.75	2.317	0.165
CO1-2.875	2.88	2.442	0.165
CO1-3	3.00	2.567	0.165
CO1-3.125	3.13	2.692	0.165
CO1-3.25	3.25	2.640	0.248
CO1-3.375	3.38	2.765	0.248
CO1-3.5	3.50	2.890	0.248
CO1-3.625	3.63	3.015	0.248
CO1-3.75	3.75	3.140	0.248
CO1-3.875	3.88	3.265	0.248
CO1-4	4.00	3.390	0.248
CO1-4.125	4.13	3.515	0.248
CO1-4.25	4.25	3.640	0.248
CO1-4.375	4.38	3.765	0.248
CO1-4.5	4.50	3.890	0.248
CO1-4.625	4.63	4.015	0.248
CO1-4.75	4.75	4.140	0.248
CO1-4.875	4.88	4.265	0.248
CO1-5	5.00	4.390	0.248
CO1-5.125	5.13	4.515	0.248
CO1-5.25	5.25	4.423	0.319
CO1-5.375	5.38	4.548	0.319
CO1-5.5	5.50	4.673	0.319
CO1-5.625	5.63	4.798	0.319
CO1-5.75	5.75	4.923	0.319

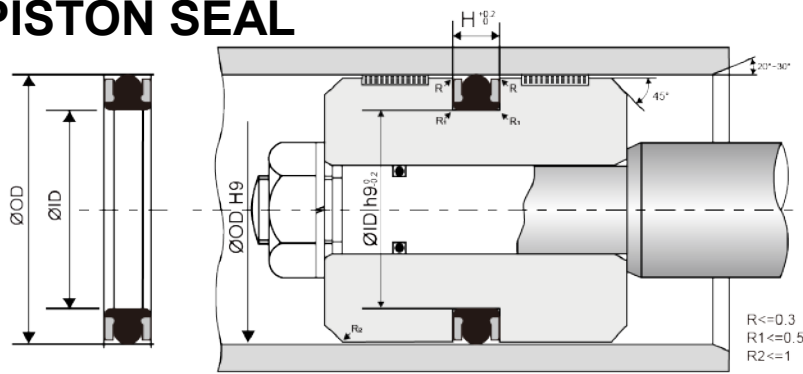
CO1 PISTON SEAL



APPLICATION	
MATERIAL	PTFE+NBR
TEMP.	-40°F~230°F
PRESSURE	7200 psi
SPEED	6.5 ft/s

ITEM	OD	ID	H
CO1-6	6.00	5.173	0.319
CO1-6.25	6.25	5.423	0.319
CO1-6.5	6.50	5.673	0.319
CO1-6.75	6.75	5.923	0.319
CO1-7	7.00	6.173	0.319
CO1-7.25	7.25	6.423	0.319
CO1-7.5	7.50	6.673	0.319
CO1-7.75	7.75	6.923	0.319
CO1-8	8.00	7.173	0.319
CO1-8.5	8.50	7.673	0.319
CO1-8.75	8.75	7.923	0.319
CO1-9	9.00	8.173	0.319
CO1-9.25	9.25	8.423	0.319
CO1-9.5	9.50	8.673	0.319
CO1-9.75	9.75	8.923	0.319
CO1-10	10.00	8.898	0.374
CO1-10.5	10.50	9.398	0.374
CO1-11	11.00	9.898	0.374
CO1-11.5	11.50	10.398	0.374
CO1-12	12.00	10.898	0.374
CO1-12.5	12.50	11.398	0.374
CO1-13	13.00	11.898	0.374
CO1-13.5	13.50	12.398	0.374
CO1-14	14.00	12.898	0.374
CO1-14.5	14.50	13.398	0.374
CO1-15	15.00	13.898	0.374
CO1-15.5	15.50	14.398	0.374
CO1-16	16.00	14.898	0.374
CO1-16.5	16.50	15.398	0.374
CO1-17	17.00	15.898	0.374
CO1-17.5	17.50	16.398	0.374
CO1-18	18.00	16.898	0.374
CO1-18.5	18.50	17.122	0.453
CO1-19	19.00	17.622	0.453
CO1-19.5	19.50	18.122	0.453
CO1-20	20.00	18.622	0.453

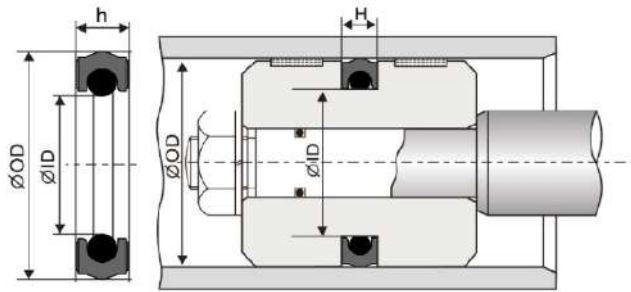
TSP PISTON SEAL



APPLICATION	
MATERIAL	NY+NBR
TEMP.	-40°F~212°F
PRESSURE	3500 psi
SPEED	3.2 ft/s

ITEM	OD	ID	H	S	R	C
TSP-204	0.625	0.383	0.187	0.125	0.02	0.125
TSP-208	0.875	0.633	0.187	0.125	0.02	0.125
* TSP-212	1.125	0.883	0.187	0.125	0.02	0.125
TSP-214	1.250	1.008	0.187	0.125	0.02	0.125
* TSP-216	1.375	1.133	0.187	0.125	0.02	0.125
TSP-218	1.500	1.258	0.187	0.125	0.02	0.125
* TSP-220	1.625	1.383	0.187	0.125	0.02	0.125
TSP-222	1.750	1.508	0.187	0.125	0.02	0.125
TSP-325	1.875	1.505	0.281	0.187	0.025	0.125
TSP-326	2.000	1.630	0.281	0.187	0.025	0.125
* TSP-327	2.125	1.755	0.281	0.187	0.025	0.125
TSP-328	2.250	1.880	0.281	0.187	0.025	0.125
* TSP-329	2.375	2.005	0.281	0.187	0.025	0.125
TSP-330	2.500	2.130	0.281	0.187	0.025	0.125
* TSP-331	2.625	2.255	0.281	0.187	0.025	0.125
TSP-332	2.750	2.380	0.281	0.187	0.025	0.125
TSP-333	2.875	2.505	0.281	0.187	0.025	0.125
TSP-334	3.000	2.630	0.281	0.187	0.025	0.125
* TSP-335	3.125	2.755	0.281	0.187	0.025	0.125
TSP-336	3.250	2.880	0.281	0.187	0.025	0.125
TSP-338	3.500	3.130	0.281	0.187	0.025	0.125
TSP-339	3.625	3.250	0.281	0.187	0.025	0.125
TSP-340	3.750	3.380	0.281	0.187	0.025	0.125
TSP-341	3.875	3.505	0.281	0.187	0.025	0.125
TSP-342	4.000	3.630	0.281	0.187	0.025	0.125
TSP-344	4.250	3.880	0.281	0.187	0.025	0.125
TSP-346	4.500	4.130	0.281	0.187	0.025	0.125
TSP-348	4.750	4.380	0.281	0.187	0.025	0.125
TSP-350	5.000	4.630	0.281	0.187	0.025	0.125
* TSP-427	5.252	4.778	0.375	0.25	0.032	0.187
TSP-429	5.502	5.028	0.375	0.25	0.032	0.187
TSP-431	5.752	5.278	0.375	0.25	0.032	0.187
TSP-432	5.877	5.403	0.375	0.25	0.032	0.187
* TSP-433	6.002	5.528	0.375	0.25	0.032	0.187
TSP-435	6.252	5.778	0.375	0.25	0.032	0.187
TSP-437	6.502	6.028	0.375	0.25	0.032	0.187
TSP-439	7.002	6.528	0.375	0.25	0.032	0.187
TSP-440	7.252	6.778	0.375	0.25	0.032	0.187
TSP-441	7.502	7.028	0.375	0.25	0.032	0.187
TSP-443	8.002	7.528	0.375	0.25	0.032	0.187
TSP-448	10.002	9.528	0.375	0.25	0.032	0.187

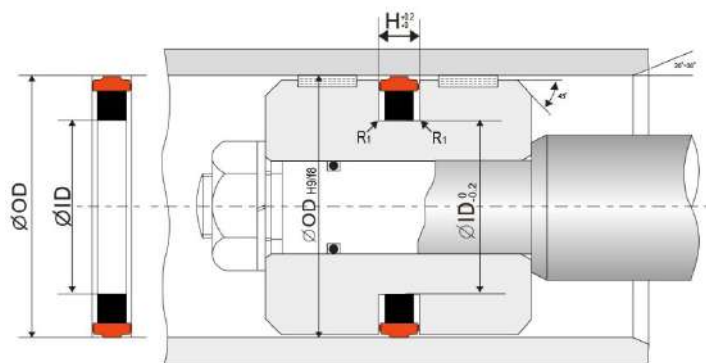
CR1 PISTON SEAL



APPLICATION		
MATERIAL	HY+NBR	PU+NBR
TEMP.	-31°F~212°F	-31°F~212°F
PRESSURE	5000 psi	5000 psi
SPEED	3.2 ft/s	3.2 ft/s

ITEM	OD	ID	H
* CR1-214	1.250	1.000	0.185
CR1-218	1.500	1.250	0.187
CR1-218A-WB	1.500	1.125	0.424
CR1-218-WB	1.500	1.258	0.304
* CR1-222	1.750	1.500	0.185
CR1-325	1.875	1.500	0.281
CR1-326	2.000	1.630	0.281
CR1-326-WB	2.000	1.625	0.424
CR1-328	2.250	1.880	0.281
CR1-330	2.500	2.125	0.281
CR1-330-WB	2.500	2.125	0.424
CR1-332	2.750	2.375	0.281
CR1-334	3.000	2.625	0.281
CR1-334A-WB	3.000	2.500	0.424
CR1-334-WB	3.000	2.625	0.424
CR1-335	3.125	2.755	0.281
CR1-336	3.250	2.875	0.281
CR1-338	3.500	3.125	0.281
CR1-338-WB	3.500	3.000	0.424
CR1-341	3.875	3.500	0.281
CR1-342A-WB	4.000	3.500	0.424
CR1-344	4.250	3.875	0.280
CR1-346	4.500	4.130	0.281
* CR1-348	4.750	4.375	0.281
CR1-350	5.000	4.630	0.281
CR1-425-WB	5.000	4.526	0.579
* CR1-427	5.250	4.750	0.365
CR1-429	5.502	5.028	0.375
* CR1-433	6.000	5.500	0.365
CR1-433-WB	6.000	5.500	0.579
CR1-435	6.252	5.778	0.375
CR1-439	7.002	6.528	0.375
* CR1-443	8.002	7.500	0.365
* CR1-448	9.002	9.500	0.365

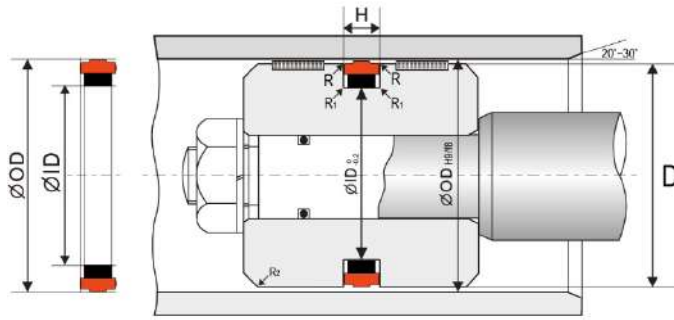
TPG3 PISTON SEAL



APPLICATION		
MATERIAL	HY+NBR	PU+NBR
TEMP.	-22°F~212°F	-22°F~230°F
PRESSURE	5000 psi	5000 psi
SPEED	3.2 ft/s	3.2 ft/s

ITEM	OD	ID	H
TPG3-1.00	1.000	0.691	0.129
TPG3-1.25	1.250	0.941	0.129
TPG3-1.500	1.500	1.191	0.129
TPG3-1.750	1.750	1.441	0.129
TPG3-2.250	2.250	1.941	0.129
TPG3-2.500	2.500	2.191	0.129
TPG3-2.750	2.750	2.441	0.129
TPG3-3.000	3.000	2.462	0.283
TPG3-3.250	3.250	2.712	0.283
TPG3-3.500	3.500	2.962	0.283
TPG3-3.750	3.750	3.212	0.283
TPG3-4.000	4.000	3.462	0.283
TPG3-4.250	4.250	3.712	0.283
TPG3-4.500	4.500	3.962	0.283
TPG3-4.750	4.750	4.212	0.283
TPG3-5.000	5.000	4.462	0.283
* TPG3-5.250	5.250	4.504	0.378
TPG3-5.500	5.500	4.754	0.378
* TPG3-5.750	5.750	5.004	0.378
TPG3-6.000	6.000	5.254	0.378
TPG3-6.250	6.250	5.504	0.378
TPG3-6.500	6.500	5.754	0.378
TPG3-7.000	7.000	6.254	0.378
* TPG3-7.250	7.250	6.504	0.378
* TPG3-7.500	7.500	6.754	0.378
TPG3-8.000	8.000	7.254	0.378

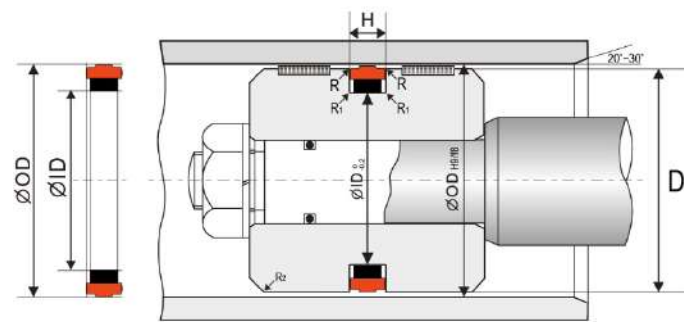
TPG5 PISTON SEAL



APPLICATION		
MATERIAL	HY+NBR	PU+NBR
TEMP.	-22°F~212°F	-22°F~230°F
PRESSURE	5000 psi	5000 psi
SPEED	3.2 ft/s	3.2 ft/s

ITEM	OD	ID	H	D
TPG5-2.500	2.500	2.082	0.175	2.497
* TPG5-1.000	1.000	0.758	0.187	0.997
* TPG5-1.125	1.125	0.883	0.187	1.122
TPG5-1.250	1.250	1.008	0.187	1.247
* TPG5-1.312	1.312	1.070	0.187	1.309
TPG5-1.375	1.375	1.133	0.187	1.372
TPG5-1.500	1.500	1.258	0.187	1.497
* TPG5-1.562	1.562	1.320	0.187	1.559
* TPG5-1.625	1.625	1.383	0.187	1.622
TPG5-1.750	1.750	1.508	0.187	1.747
* TPG5-1.875	1.875	1.505	0.281	1.872
TPG5-2.000	2.000	1.630	0.281	1.997
TPG5-2.125	2.125	1.755	0.281	2.122
TPG5-2.250	2.250	1.880	0.281	2.247
* TPG5-2.375	2.375	2.005	0.281	2.372
TPG5-2.500	2.500	2.130	0.281	2.497
TPG5-2.625	2.625	2.255	0.281	2.622
TPG5-2.750	2.750	2.380	0.281	2.747
TPG5-2.875	2.875	2.505	0.281	2.872
TPG5-3.000	3.000	2.630	0.281	2.997
TPG5-3.125	3.125	2.755	0.281	3.122
TPG5-3.250	3.250	2.880	0.281	3.247
* TPG5-3.375	3.375	3.005	0.281	3.372
TPG5-3.500	3.500	3.130	0.281	3.497
* TPG5-3.625	3.625	3.255	0.281	3.622
TPG5-3.750	3.750	3.380	0.281	3.747
* TPG5-3.875	3.875	3.505	0.281	3.872
TPG5-4.000	4.000	3.630	0.281	3.997
* TPG5-4.125	4.125	3.755	0.281	4.122
TPG5-4.250	4.250	3.880	0.281	4.247
* TPG5-4.375	4.375	4.005	0.281	4.372
TPG5-4.500	4.500	4.130	0.281	4.497
* TPG5-4.625	4.625	4.255	0.281	4.622
* TPG5-4.750	4.750	4.380	0.281	4.747
* TPG5-4.875	4.875	4.505	0.281	4.872
TPG5-5.000	5.000	4.630	0.281	4.997
* TPG5-5.125	5.125	4.655	0.375	
* TPG5-5.250	5.250	4.780	0.375	
* TPG5-5.375	5.375	4.905	0.375	

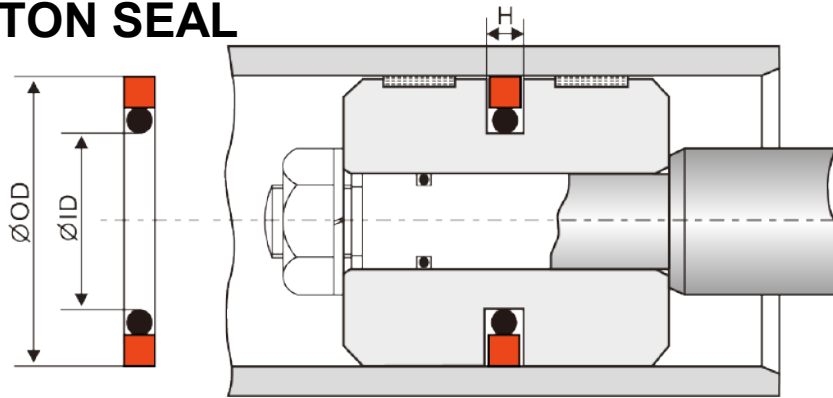
TPG5 PISTON SEAL



APPLICATION		
MATERIAL	HY+NBR	PU+NBR
TEMP.	-22°F~212°F	-22°F~230°F
PRESSURE	5000 psi	5000 psi
SPEED	3.2 ft/s	3.2 ft/s

ITEM	OD	ID	H	D
TPG5-5.500	5.500	5.030	0.375	
TPG5-6.000	6.002	5.528	0.375	5.998
TPG5-6.500	6.502	6.028	0.375	6.498
TPG5-7.000	7.002	6.528	0.375	6.998
TPG5-2.500	2.500	2.130	0.410	2.497
TPG5-3.000	3.000	2.630	0.410	2.997

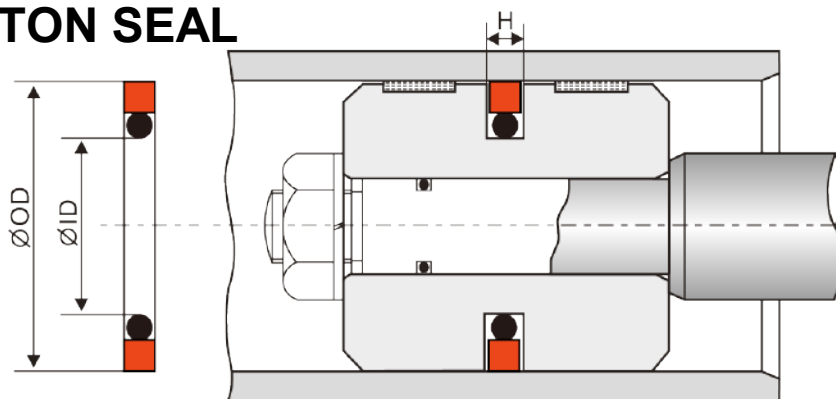
PH PISTON SEAL



APPLICATION	
MATERIAL	HY+NBR
TEMP.	-40°F~230°F
PRESSURE	6000 psi
SPEED	5 ft/s

ITEM	OD	ID	H	AS O-Ring Number
* PH-0.5	0.500	0.241	0.083	9
* PH-0.625	0.625	0.366	0.083	11
* PH-0.75	0.750	0.491	0.083	13
* PH-0.875	0.875	0.616	0.083	15
* PH-1	1.000	0.741	0.083	17
* PH-1.125	1.125	0.866	0.083	19
* PH-1.25	1.250	0.991	0.083	21
* PH-1.375	1.375	1.116	0.083	23
* PH-1.5	1.500	1.241	0.083	25
* PH-1.562	1.562	1.172	0.122	122
* PH-1.625	1.625	1.235	0.122	123
* PH-1.75	1.750	1.36	0.122	125
* PH-1.875	1.875	1.485	0.122	127
PH-2	2.000	1.606	0.13	129
* PH-2.125	2.125	1.731	0.13	131
* PH-2.25	2.250	1.856	0.13	133
* PH-2.375	2.375	1.981	0.13	135
PH-2.5	2.500	2.106	0.13	137
* PH-2.75	2.750	2.356	0.13	141
PH-3	3.000	2.606	0.13	145
* PH-3.25	3.250	2.856	0.13	149
PH-3.5	3.500	3.106	0.13	151
* PH-3.75	3.750	3.356	0.13	152
PH-4	4.000	3.606	0.13	153
* PH-4.25	4.250	3.856	0.13	154
* PH-4.5	4.500	4.106	0.13	155
* PH-4.75	4.750	4.356	0.13	156
PH-5	5.000	4.606	0.13	157
* PH-5.25	5.250	4.856	0.13	158
* PH-5.5	5.500	5.106	0.13	159
* PH-5.75	5.750	5.232	0.159	251
PH-6	6.000	5.482	0.159	253
PH-6.25	6.250	5.732	0.159	255
* PH-6.5	6.500	5.982	0.159	257
* PH-6.75	6.750	6.232	0.159	258
* PH-7	7.000	6.482	0.159	259
* PH-7.25	7.250	6.732	0.159	260
* PH-7.5	7.500	6.982	0.159	261

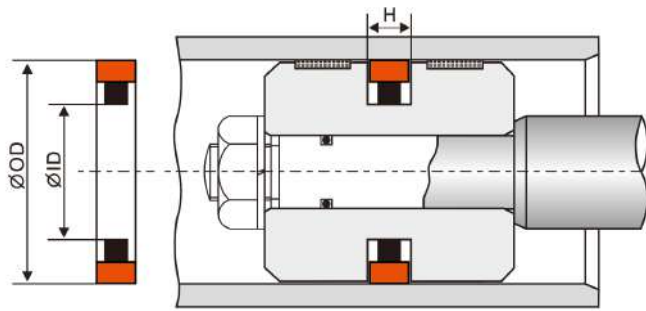
PH PISTON SEAL



APPLICATION	
MATERIAL	HY+NBR
TEMP.	-40°F~230°F
PRESSURE	6000 psi
SPEED	5 ft/s

ITEM	OD	ID	H	AS O-Ring Number
* PH-7.75	7.750	7.232	0.159	262
* PH-8	8.000	7.482	0.159	263
* PH-8.5	8.500	7.982	0.159	265
* PH-9	9.000	8.482	0.159	267
* PH-9.5	9.500	8.982	0.159	269
* PH-10	10.000	9.482	0.159	271

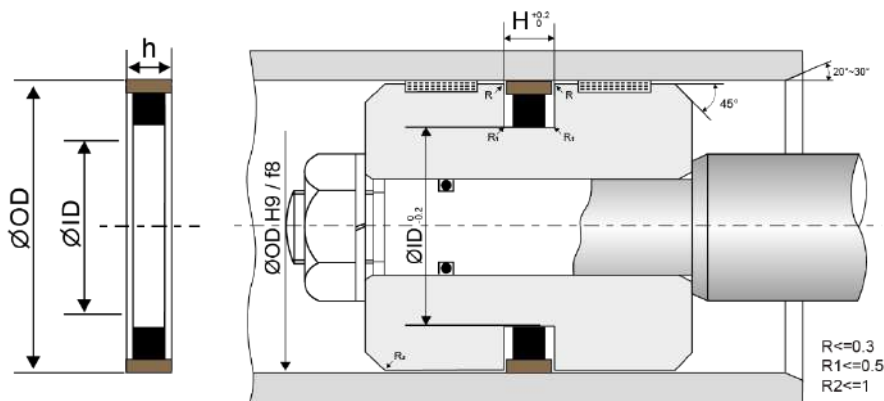
PHR PISTON SEAL



APPLICATION	
MATERIAL	HY+NBR
TEMP.	-40°F~230°F
PRESSURE	6000 psi
SPEED	5 ft/s

ITEM	OD	ID	H	SQ O-Ring Number
* PHR--1	1.000	0.688	0.126	115
* PHR-1.25	1.250	0.938	0.126	119
* PHR-1.5	1.500	1.188	0.126	123
* PHR-1.75	1.750	1.438	0.126	127
* PHR-2	2.000	1.688	0.126	131
* PHR-2.25	2.250	1.938	0.126	135
* PHR-2.5	2.500	2.188	0.126	139
* PHR-2.75	2.750	2.438	0.126	143
* PHR-3	3.000	2.442	0.279	333
* PHR-3.25	3.250	2.692	0.279	335
* PHR-3.5	3.500	2.942	0.279	337
* PHR-3.75	3.750	3.192	0.279	339
* PHR-4	4.000	3.442	0.279	341
* PHR-4.25	4.250	3.692	0.279	343
* PHR-4.5	4.500	3.942	0.279	345
* PHR-4.75	4.750	4.192	0.279	347
* PHR-5	5.000	4.442	0.279	349
* PHR-5.25	5.250	4.476	0.378	425
* PHR-5.5	5.500	4.726	0.378	427
* PHR-5.75	5.750	4.976	0.378	429
* PHR-6	6.000	5.226	0.378	431
* PHR-6.5	6.500	5.726	0.378	435
* PHR-7	7.000	6.226	0.378	438
* PHR-7.5	7.500	6.726	0.378	440
PHR-8	8.000	7.226	0.378	442
* PHR-8.5	8.500	7.726	0.378	444
* PHR-9	9.000	8.110	0.378	445
* PHR-9.5	9.500	8.610	0.378	446
* PHR-10	10.000	9.110	0.378	447
* PHR-11	11.000	10.110	0.378	449
* PHR-12	12.000	11.110	0.378	451
* PHR-13	13.000	12.110	0.378	453
* PHR-14	14.000	13.110	0.378	455

TG PISTON SEAL

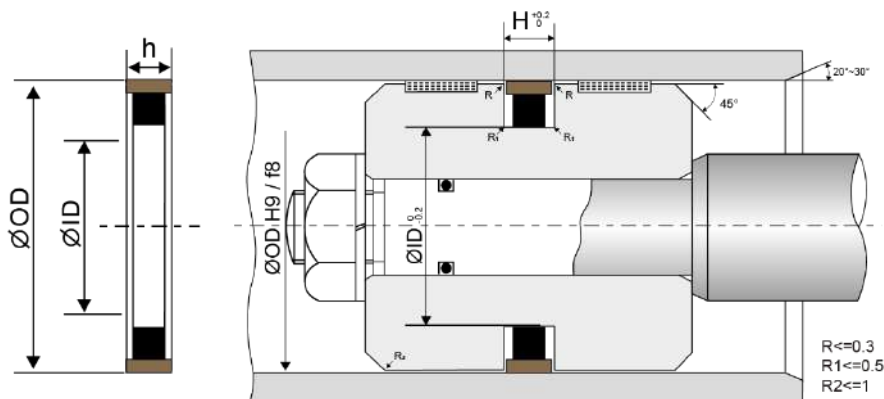


APPLICATION	
MATERIAL	PTFE+NBR
TEMP.	-40°F~230°F
PRESSURE	5000
SPEED	12 (ft/s)

UNIT : INCH

ITEM	OD	ID	H
* TG-1.000	1.000	0.692	0.129
* TG-1.250	1.250	0.942	0.129
* TG-1.500	1.500	1.192	0.129
* TG-1.750	1.750	1.442	0.129
TG-2.000	2.000	1.692	0.129
* TG-2.250	2.250	1.942	0.129
TG-2.500	2.500	2.190	0.129
* TG-2.750	2.750	2.442	0.129
TG-3.500	3.500	3.108	0.129
TG-4.000	4.000	3.608	0.129
TG-4.500	4.500	4.108	0.129
TG-5.000	5.000	4.608	0.129
TG-2.500	2.500	1.962	0.283
TG-2.750	2.750	2.212	0.283
TG-3.000	3.000	2.462	0.283
TG-3.250	3.250	2.712	0.283
TG-3.500	3.500	2.962	0.283
TG-3.750	3.750	3.212	0.283
TG-4.000	4.000	3.462	0.283
TG-4.250	4.250	3.712	0.283
TG-4.500	4.500	3.962	0.283
TG-4.750	4.750	4.212	0.283
TG-5.000	5.000	4.462	0.283
TG-5.250	5.250	4.712	0.283
* TG-3.000	3.000	2.444	0.284
TG-3.250	3.250	2.694	0.284
* TG-3.500	3.500	2.944	0.284
TG-3.750	3.750	3.187	0.284
* TG-3.750	3.750	3.194	0.284
TG-4.000	4.000	3.444	0.284
* TG-4.125	4.125	3.569	0.284
* TG-4.250	4.250	3.694	0.284
* TG-4.500	4.500	3.944	0.284
TG-4.750	4.750	4.194	0.284
* TG-5.000	5.000	4.444	0.284
* TG-5.250	5.250	4.488	0.379
TG-5.500	5.500	4.738	0.379

TG PISTON SEAL

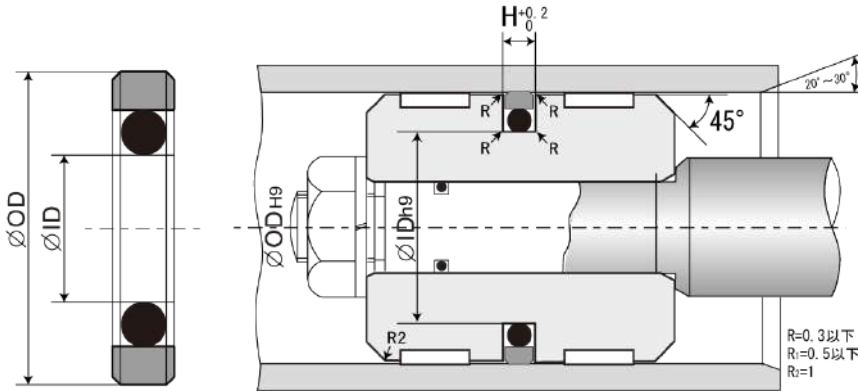


APPLICATION	
MATERIAL	PTFE+NBR
TEMP.	-40°F~230°F
PRESSURE	5000
SPEED	12 (ft/s)

UNIT : INCH

ITEM	OD	ID	H
TG-5.750	5.750	4.988	0.379
TG-6.000	6.000	5.238	0.379
TG-6.250	6.250	5.488	0.379
* TG-6.500	6.500	5.738	0.379
* TG-6.750	6.750	5.988	0.379
TG-7.000	7.000	6.238	0.379
TG-7.250	7.250	6.488	0.379
TG-7.500	7.500	6.738	0.379
TG-7.500	7.500	6.738	0.379
* TG-7.750	7.750	6.988	0.379
TG-8.000	8.000	7.238	0.379
TG-8.250	8.250	7.488	0.379
* TG-8.500	8.500	7.738	0.379
* TG-9.000	9.000	8.122	0.379
* TG-9.500	9.500	8.622	0.379
* TG-10.00	10.00	9.122	0.379
* TG-11.00	11.00	10.12	0.379
* TG-12.00	12.00	11.12	0.379
* TG-13.00	13.00	12.12	0.379
* TG-14.00	14.00	13.12	0.379

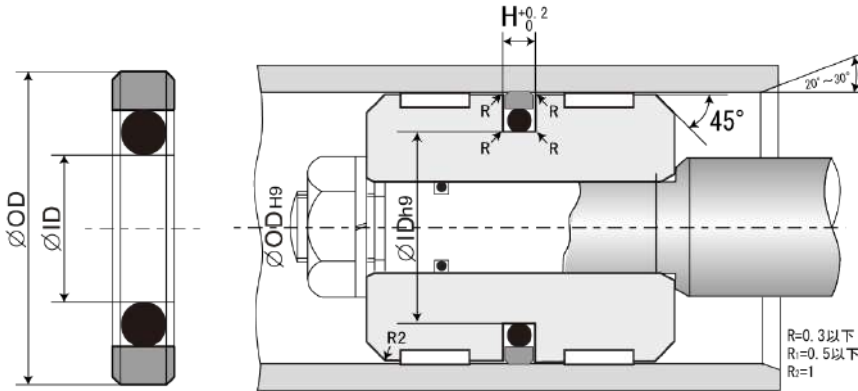
TD PISTON SEAL



APPLICATION	
MATERIAL	PTFE+NBR
TEMP.	-31°F~230°F
PRESSURE	5000 psi
SPEED	4.9 ft/s

ITEM	OD	ID	H	ITEM	OD	ID	H
* TD-0.500	0.500	0.244	0.081	* TD-1.625	1.625	1.239	0.120
* TD-0.500	0.500	0.326	0.081	* TD-1.687	1.687	1.301	0.120
* TD-0.562	0.562	0.306	0.081	* TD-1.750	1.750	1.364	0.120
* TD-0.562	0.562	0.388	0.081	* TD-1.875	1.875	1.489	0.120
* TD-0.625	0.625	0.369	0.081	* TD-0.750	0.750	0.452	0.126
* TD-0.625	0.625	0.451	0.081	* TD-0.812	0.812	0.514	0.126
* TD-0.687	0.687	0.431	0.081	* TD-0.875	0.875	0.577	0.126
* TD-0.687	0.687	0.513	0.081	* TD-0.937	0.937	0.639	0.126
* TD-0.750	0.750	0.494	0.081	* TD-1.000	1.000	0.702	0.126
* TD-0.750	0.750	0.576	0.081	* TD-1.062	1.062	0.764	0.126
* TD-0.812	0.812	0.556	0.081	* TD-1.125	1.125	0.827	0.126
* TD-0.812	0.812	0.638	0.081	* TD-1.187	1.187	0.889	0.126
* TD-0.875	0.875	0.619	0.081	* TD-1.250	1.250	0.952	0.126
* TD-0.875	0.875	0.701	0.081	* TD-1.312	1.312	1.014	0.126
* TD-0.937	0.937	0.681	0.081	* TD-1.375	1.375	1.077	0.126
* TD-0.937	0.937	0.763	0.081	* TD-1.437	1.437	1.139	0.126
* TD-1.000	1.000	0.744	0.081	* TD-1.500	1.500	1.202	0.126
* TD-1.000	1.000	0.826	0.081	* TD-1.562	1.562	1.264	0.126
* TD-1.062	1.062	0.806	0.081	TD-1.625	1.625	1.327	0.126
* TD-1.062	1.062	0.888	0.081	* TD-1.687	1.687	1.389	0.126
* TD-1.125	1.125	0.869	0.081	TD-1.750	1.750	1.452	0.126
* TD-1.125	1.125	0.951	0.081	* TD-1.875	1.875	1.577	0.126
* TD-1.187	1.187	0.931	0.081	TD-2.000	2.000	1.702	0.126
* TD-1.187	1.187	1.013	0.081	* TD-2.125	2.125	1.827	0.126
* TD-1.250	1.250	0.994	0.081	* TD-2.250	2.250	1.952	0.126
* TD-1.250	1.250	1.076	0.081	* TD-2.375	2.375	2.077	0.126
* TD-1.312	1.312	1.056	0.081	* TD-2.500	2.500	2.202	0.126
* TD-1.312	1.312	1.138	0.081	* TD-2.625	2.625	2.327	0.126
* TD-1.375	1.375	1.119	0.081	* TD-2.750	2.750	2.452	0.126
* TD-1.375	1.375	1.201	0.081	* TD-2.000	2.000	1.614	0.127
* TD-1.437	1.437	1.181	0.081	* TD-2.125	2.125	1.739	0.127
* TD-1.437	1.437	1.263	0.081	* TD-2.250	2.250	1.864	0.127
* TD-1.500	1.500	1.244	0.081	* TD-2.375	2.375	1.989	0.127
* TD-1.500	1.500	1.326	0.081	* TD-2.500	2.500	2.114	0.127
* TD-1.562	1.562	1.176	0.120	* TD-2.625	2.625	2.239	0.127
* TD-2.750	2.750	2.364	0.127	* TD-7.750	7.750	7.234	0.157
* TD-2.875	2.875	2.489	0.127	* TD-8.000	8.000	7.484	0.157
* TD-3.000	3.000	2.614	0.127	* TD-8.250	8.250	7.734	0.157

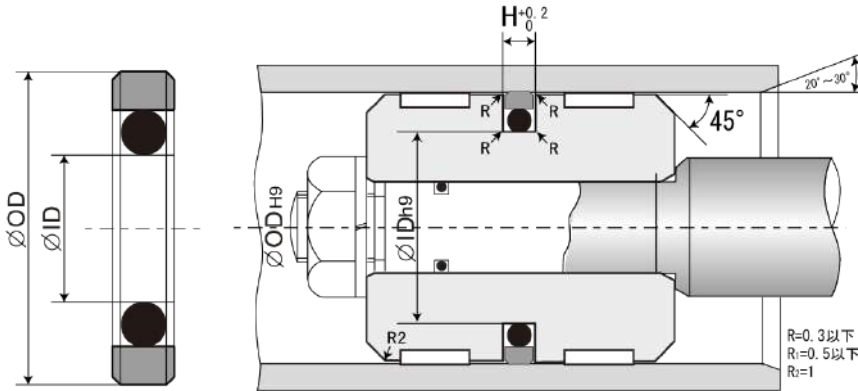
TD PISTON SEAL



APPLICATION	
MATERIAL	PTFE+NBR
TEMP.	-31°F~230°F
PRESSURE	5000 psi
SPEED	4.9 ft/s

ITEM	OD	ID	H	ITEM	OD	ID	H
* TD-3.125	3.125	2.739	0.127	* TD-8.500	8.500	7.984	0.157
* TD-3.250	3.250	2.864	0.127	* TD-9.000	9.000	8.484	0.157
* TD-3.375	3.375	2.989	0.127	* TD-9.500	9.500	8.984	0.157
* TD-3.500	3.500	3.114	0.127	* TD-10.000	10.000	9.484	0.157
* TD-3.625	3.625	3.239	0.127	* TD-10.500	10.500	9.984	0.157
* TD-3.750	3.750	3.364	0.127	* TD-11.000	11.000	10.484	0.157
* TD-3.875	3.875	3.489	0.127	* TD-11.500	11.500	10.984	0.157
* TD-4.000	4.000	3.614	0.127	* TD-12.000	12.000	11.484	0.157
* TD-4.125	4.125	3.739	0.127	* TD-1.562	1.562	1.138	0.166
* TD-4.250	4.250	3.864	0.127	* TD-1.625	1.625	1.201	0.166
* TD-4.375	4.375	3.989	0.127	* TD-1.687	1.687	1.263	0.166
* TD-4.500	4.500	4.114	0.127	* TD-1.750	1.750	1.326	0.166
* TD-4.625	4.625	4.239	0.127	* TD-1.875	1.875	1.451	0.166
* TD-4.750	4.750	4.364	0.127	* TD-2.000	2.000	1.576	0.166
* TD-4.875	4.875	4.489	0.127	* TD-2.125	2.125	1.701	0.166
* TD-5.000	5.000	4.614	0.127	* TD-2.250	2.250	1.826	0.166
* TD-5.125	5.125	4.739	0.127	* TD-2.375	2.375	1.951	0.166
* TD-5.250	5.250	4.864	0.127	* TD-2.500	2.500	2.076	0.166
* TD-5.375	5.375	4.989	0.127	* TD-2.625	2.625	2.201	0.166
* TD-5.500	5.500	5.114	0.127	TD-2.750	2.750	2.326	0.166
* TD-5.625	5.625	5.109	0.157	* TD-2.875	2.875	2.451	0.166
* TD-5.750	5.750	5.234	0.157	TD-3.000	3.000	2.576	0.166
* TD-5.875	5.875	5.359	0.157	* TD-3.125	3.125	2.701	0.166
TD-6.000	6.000	5.484	0.157	* TD-3.250	3.250	2.826	0.166
* TD-6.125	6.125	5.609	0.157	* TD-3.375	3.375	2.951	0.166
* TD-6.250	6.250	5.734	0.157	* TD-3.500	3.500	3.076	0.166
* TD-6.375	6.375	5.859	0.157	* TD-3.625	3.625	3.201	0.166
* TD-6.500	6.500	5.984	0.157	* TD-3.750	3.750	3.326	0.166
* TD-6.750	6.750	6.234	0.157	* TD-3.875	3.875	3.451	0.166
* TD-7.000	7.000	6.484	0.157	* TD-4.000	4.000	3.576	0.166
* TD-7.250	7.250	6.734	0.157	* TD-4.125	4.125	3.701	0.166
* TD-7.500	7.500	6.984	0.157	* TD-4.250	4.250	3.826	0.166
* TD-4.375	4.375	3.951	0.166	* TD-6.250	6.250	5.634	0.247
* TD-4.500	4.500	4.076	0.166	* TD-6.375	6.375	5.759	0.247
* TD-4.625	4.625	4.201	0.166	* TD-6.500	6.500	5.884	0.247
* TD-4.750	4.750	4.326	0.166	* TD-6.750	6.750	6.134	0.247
* TD-4.875	4.875	4.451	0.166	* TD-7.000	7.000	6.384	0.247
* TD-5.000	5.000	4.576	0.166	* TD-7.250	7.250	6.634	0.247

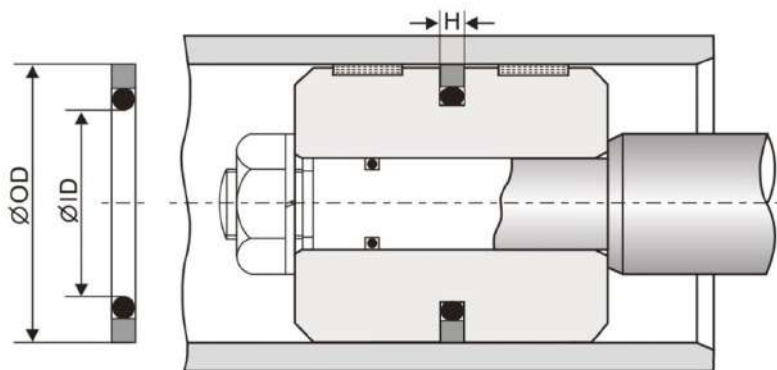
TD PISTON SEAL



APPLICATION	
MATERIAL	PTFE+NBR
TEMP.	-31°F~230°F
PRESSURE	5000 psi
SPEED	4.9 ft/s

ITEM	OD	ID	H	ITEM	OD	ID	H
* TD-5.125	5.125	4.701	0.166	* TD-7.500	7.500	6.884	0.247
* TD-5.250	5.250	4.826	0.166	* TD-7.750	7.750	7.134	0.247
* TD-5.375	5.375	4.951	0.166	* TD-8.000	8.000	7.384	0.247
* TD-5.500	5.500	5.076	0.166	* TD-8.250	8.250	7.634	0.247
* TD-3.125	3.125	2.509	0.247	* TD-8.500	8.500	7.884	0.247
* TD-3.250	3.250	2.634	0.247	* TD-9.000	9.000	8.384	0.247
* TD-3.375	3.375	2.759	0.247	* TD-9.500	9.500	8.884	0.247
* TD-3.500	3.500	2.884	0.247	* TD-10.000	10.000	9.384	0.247
* TD-3.625	3.625	3.009	0.247	* TD-10.500	10.500	9.884	0.247
* TD-3.750	3.750	3.134	0.247	* TD-11.000	11.000	10.384	0.247
* TD-3.875	3.875	3.259	0.247	* TD-11.500	11.500	10.884	0.247
* TD-4.000	4.000	3.384	0.247	* TD-12.000	12.000	11.384	0.247
* TD-4.125	4.125	3.509	0.247	* TD-5.375	5.375	4.545	0.320
* TD-4.250	4.250	3.634	0.247	* TD-5.500	5.500	4.670	0.320
* TD-4.375	4.375	3.759	0.247	* TD-5.625	5.625	4.795	0.320
* TD-4.500	4.500	3.884	0.247	* TD-5.750	5.750	4.920	0.320
* TD-4.625	4.625	4.009	0.247	* TD-5.875	5.875	5.045	0.320
* TD-4.750	4.750	4.134	0.247	* TD-6.000	6.000	5.170	0.320
* TD-4.875	4.875	4.259	0.247	* TD-6.125	6.125	5.295	0.320
TD-5.000	5.000	4.384	0.247	* TD-6.250	6.250	5.420	0.320
* TD-5.125	5.125	4.509	0.247	* TD-6.375	6.375	5.545	0.320
* TD-5.250	5.250	4.634	0.247	* TD-6.500	6.500	5.670	0.320
* TD-5.375	5.375	4.759	0.247	* TD-6.750	6.750	5.920	0.320
* TD-5.500	5.500	4.884	0.247	* TD-7.000	7.000	6.170	0.320
* TD-5.625	5.625	5.009	0.247	* TD-7.250	7.250	6.420	0.320
* TD-5.750	5.750	5.134	0.247	* TD-7.500	7.500	6.670	0.320
* TD-5.875	5.875	5.259	0.247	* TD-7.750	7.750	6.920	0.320
* TD-6.000	6.000	5.384	0.247	* TD-8.000	8.000	7.170	0.320
* TD-6.125	6.125	5.509	0.247	* TD-8.250	8.250	7.420	0.320
* TD-8.500	8.500	7.670	0.320	* TD-10.500	10.500	9.670	0.320
* TD-9.000	9.000	8.170	0.320	* TD-11.000	11.000	10.170	0.320
* TD-9.500	9.500	8.670	0.320	* TD-11.500	11.500	10.670	0.320
* TD-10.000	10.000	9.170	0.320	* TD-12.000	12.000	11.170	0.320

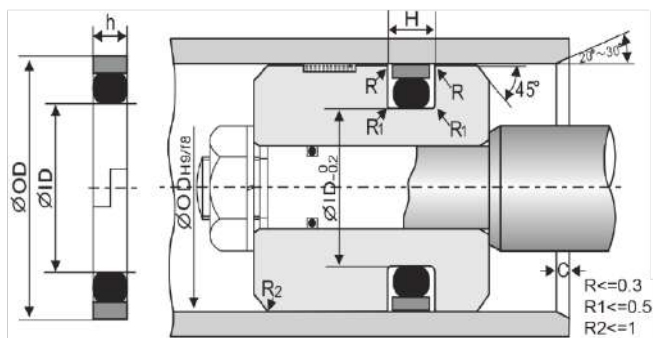
TO1 PISTON SEAL



APPLICATION	
MATERIAL	PTFE+NBR
TEMP.	-31°F~230°F
PRESSURE	5000 psi
SPEED	4.9 ft/s

ITEM	OD	ID	H	ITEM	OD	ID	H
* TO1-0.500	0.500	0.240	0.083	* TO1-5.500	5.500	5.108	0.130
* TO1-0.625	0.625	0.365	0.083	* TO1-5.750	5.750	5.232	0.160
* TO1-0.750	0.750	0.490	0.083	* TO1-5.875	5.875	5.357	0.160
* TO1-0.875	0.875	0.615	0.083	* TO1-6.000	6.000	5.482	0.160
* TO1-1.000	1.000	0.740	0.083	* TO1-6.250	6.250	5.732	0.160
* TO1-1.125	1.125	0.865	0.083	* TO1-6.500	6.500	5.982	0.160
* TO1-1.250	1.250	0.990	0.083	* TO1-6.750	6.750	6.232	0.160
* TO1-1.375	1.375	1.115	0.083	* TO1-7.000	7.000	6.482	0.160
TO1-1.500	1.500	1.240	0.083	* TO1-7.125	7.125	6.607	0.160
* TO1-1.625	1.625	1.233	0.122	* TO1-7.250	7.250	6.732	0.160
* TO1-1.750	1.750	1.358	0.122	* TO1-7.500	7.500	6.982	0.160
* TO1-1.875	1.875	1.483	0.122	* TO1-7.750	7.750	7.232	0.160
TO1-2.000	2.000	1.608	0.129	* TO1-8.000	8.000	7.482	0.160
TO1-2.125	2.125	1.733	0.129	* TO1-8.250	8.250	7.732	0.160
TO1-2.250	2.250	1.858	0.129	* TO1-8.500	8.500	7.982	0.160
TO1-2.375	2.375	1.983	0.129	* TO1-8.750	8.750	8.232	0.160
TO1-2.500	2.500	2.108	0.129	* TO1-9.000	9.000	8.482	0.160
TO1-2.625	2.625	2.233	0.129	* TO1-9.250	9.250	8.732	0.160
TO1-2.750	2.750	2.358	0.129	* TO1-9.500	9.500	8.982	0.160
TO1-2.875	2.875	2.483	0.129	* TO1-9.750	9.750	9.232	0.160
TO1-3.000	3.000	2.608	0.129	* TO1-10.000	10.000	9.482	0.160
TO1-3.250	3.250	2.858	0.129	* TO1-10.250	10.250	9.732	0.160
TO1-3.375	3.375	2.983	0.129	* TO1-10.500	10.500	9.982	0.160
TO1-3.500	3.5	3.108	0.129	* TO1-10.750	10.750	10.232	0.160
TO1-3.625	3.625	3.233	0.129	* TO1-11.000	11.000	10.482	0.160
TO1-3.750	3.75	3.358	0.129	* TO1-11.500	11.500	10.982	0.160
TO1-4.000	4	3.608	0.129	* TO1-12.000	12.000	11.482	0.160
* TO1-5.000	5	4.608	0.129	* TO1-12.500	12.500	11.982	0.160
* TO1-4.250	4.250	3.858	0.130	* TO1-13.000	13.000	12.482	0.160
TO1-4.500	4.500	4.108	0.130	* TO1-14.000	14.000	13.482	0.160
* TO1-4.750	4.750	4.358	0.130	* TO1-15.000	15.000	14.482	0.160
* TO1-4.875	4.875	4.483	0.130	* TO1-16.000	16.000	15.482	0.160
* TO1-5.250	5.250	4.858	0.130				

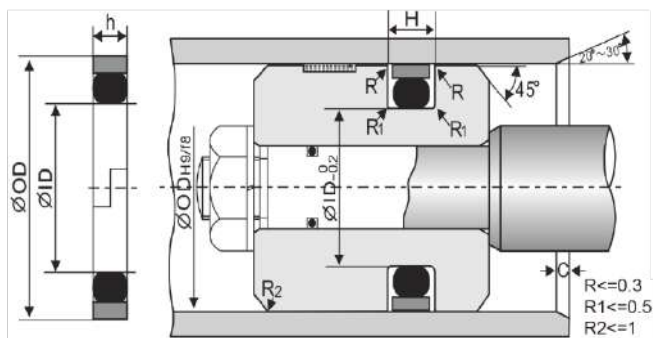
TGA PISTON SEAL



APPLICATION	
MATERIAL	NY+NBR
TEMP.	-31°F~230°F
PRESSURE	5000 psi
SPEED	4.9 ft/s

ITEM	OD	ID	h
* TGA-1.500	1.50	1.042	0.252
* TGA-1.750	1.75	1.292	0.252
TGA-2.000	2.00	1.462	0.282
TGA-2.250	2.25	1.712	0.282
TGA-2.500	2.50	1.962	0.282
TGA-2.750	2.75	2.212	0.282
TGA-3.000	3.00	2.442	0.282
* TGA-3.025	3.03	2.467	0.282
TGA-3.250	3.25	2.692	0.282
TGA-3.500	3.50	2.942	0.282
* TGA-3.750	3.75	3.192	0.282
TGA-4.000	4.00	3.442	0.282
* TGA-4.000	4.00	3.625	0.282
* TGA-4.250	4.25	3.692	0.282
TGA-4.500	4.50	3.942	0.282
* TGA-4.500	4.50	4.125	0.282
* TGA-4.525	4.53	3.967	0.282
TGA-4.750	4.75	4.192	0.282
TGA-5.000	5.00	4.442	0.282
* TGA-5.025	5.03	4.467	0.282
* TGA-5.500	5.50	4.942	0.282
* TGA-2.000	2.00	1.408	0.312
TGA-2.500	2.50	1.908	0.312
TGA-3.000	3.00	2.408	0.312
* TGA-3.500	3.50	2.908	0.312
TGA-4.000	4.00	3.408	0.312
TGA-4.500	4.50	3.908	0.312
* TGA-4.500	4.50	3.74	0.375
* TGA-4.500	4.50	3.942	0.375
* TGA-4.750	4.75	3.99	0.375
* TGA-5.000	5.00	4.226	0.375
* TGA-5.000	5.00	4.24	0.375
* TGA-5.025	5.03	4.265	0.375
* TGA-5.025	5.03	4.4251	0.375
* TGA-5.250	5.25	4.49	0.375
TGA-5.500	5.50	4.74	0.375
* TGA-5.750	5.75	4.99	0.375
TGA-6.000	6.00	5.24	0.375
* TGA-6.025	6.03	5.265	0.375

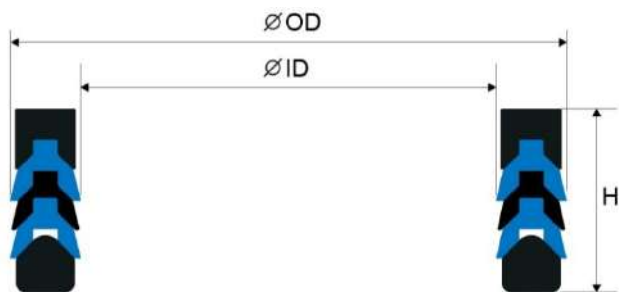
TGA PISTON SEAL



APPLICATION	
MATERIAL	NY+NBR
TEMP.	-31°F~230°F
PRESSURE	5000 psi
SPEED	4.9 ft/s

ITEM	OD	ID	h
TGA-6.500	6.50	5.74	0.375
* TGA-7.000	7.00	6.24	0.375
* TGA-7.015	7.02	6.255	0.375
* TGA-7.025	7.03	6.265	0.375
* TGA-7.500	7.50	6.74	0.375
TGA-8.000	8.00	7.24	0.375
* TGA-8.025	8.03	7.265	0.375
* TGA-8.500	8.50	7.74	0.375
* TGA-9.000	9.00	8.124	0.375
* TGA-9.025	9.03	8.149	0.375
* TGA-9.500	9.50	8.624	0.375
* TGA-10.00	10.00	9.124	0.375
* TGA-10.023	10.02	9.147	0.375
* TGA-12.00	12.00	11.124	0.375
* TGA-12.50	12.50	11.624	0.375
* TGA-14.00	14.00	13.124	0.375
* TGA-15.00	15.00	14.124	0.375
* TGA-15.50	15.50	14.624	0.375
* TGA-17.00	17.00	16.124	0.375
* TGA-18.00	18.00	17.124	0.375
* TGA-22.00	22.00	21.124	0.375
* TGA-26.00	26.00	25.124	0.375
* TGA-36.00	36.00	35.124	0.375
* TGA-13.00	13.00	12.124	0.375
* TGA-13.50	13.50	12.624	0.375

VP1 PISTON SEAL



APPLICATION	
MATERIAL	HY+NY
TEMP.	-40°F~212°F
PRESSURE	7000 psi
SPEED	1.6 ft/s

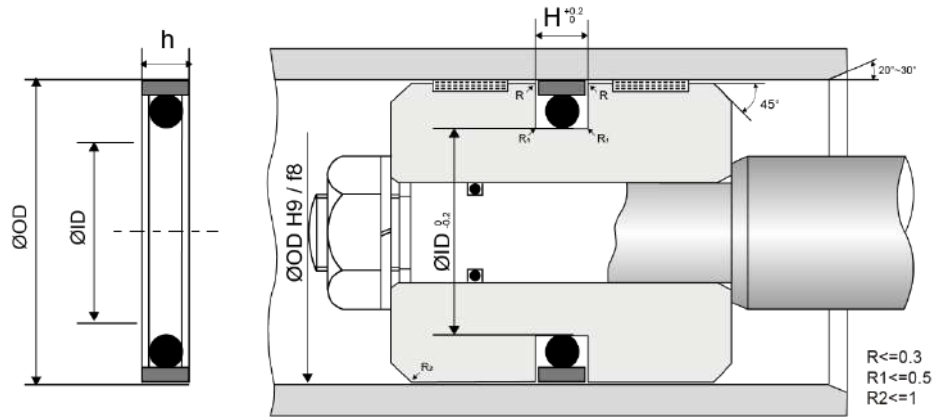
ITEM	ID	OD	H
* VP1-3.000	3.000	3.500	0.7500
VP1-3.500	3.500	4.000	0.7500
VP1-4.000	4.000	4.500	0.7500
VP1-4.500	4.500	5.000	0.7500
VP1-5.500	5.500	6.000	0.7500
VP1-7.500	7.500	8.000	0.7500
* VP1-2.500	2.500	3.000	0.8125
* VP1-3.000	3.000	3.500	0.8125
* VP1-4.000	4.000	4.500	0.8125
* VP1-5.000	5.000	5.500	0.8125
VP1-2.500	2.500	3.000	0.8750
VP1-3.000	3.000	3.500	0.8750
VP1-3.000	3.000	3.500	0.8750
VP1-3.500	3.500	4.000	0.875
VP1-4.500	4.500	5.000	0.8750
VP1-2.500	2.500	3.000	1.0000
VP1-3.000	3.000	3.500	1.0000
VP1-3.500	3.500	4.000	1.0000
VP1-4.000	4.000	4.500	1.0000
VP1-4.500	4.500	5.000	1.0000
VP1-5.000	5.000	5.500	1.0000
VP1-5.500	5.500	6.000	1.0000
VP1-6.000	6.000	6.500	1.0000
* VP1-7.000	7.000	7.500	1.0000
VP1-2.500	2.500	3.000	1.1250
VP1-3.000	3.000	3.500	1.1250
VP1-3.500	3.500	4.000	1.1250
VP1-4.000	4.000	4.500	1.1250
VP1-4.500	4.500	5.000	1.1250
VP1-5.000	5.000	5.500	1.1250
VP1-5.500	5.500	6.000	1.1250
VP1-6.000	6.000	6.500	1.1250
VP1-6.500	6.500	7.000	1.1250
* VP1-5.000	5.000	5.500	1.2500
VP1-5.500	5.500	6.000	1.2500
* VP1-6.000	6.000	6.500	1.2500
* VP1-4.500	4.500	5.000	1.3750
* VP1-3.000	3.000	3.500	1.7500
* VP1-3.500	3.500	4.000	1.7500
* VP1-4.500	4.500	5.000	1.7500
* VP1-6.000	6.000	6.500	1.7500
* VP1-7.000	7.000	7.500	1.7500
* VP1-800	8.000	8.500	1.7500

GUIDELOCK PISTON RING



ITEM	ID	OD	H
	3.000	2.250	0.375
	3.500	2.750	0.375
	4.000	3.250	0.500
	6.000	5.125	0.500
	8.000	7.125	0.500
	4.500	3.750	0.500

TGO PISTON SEAL

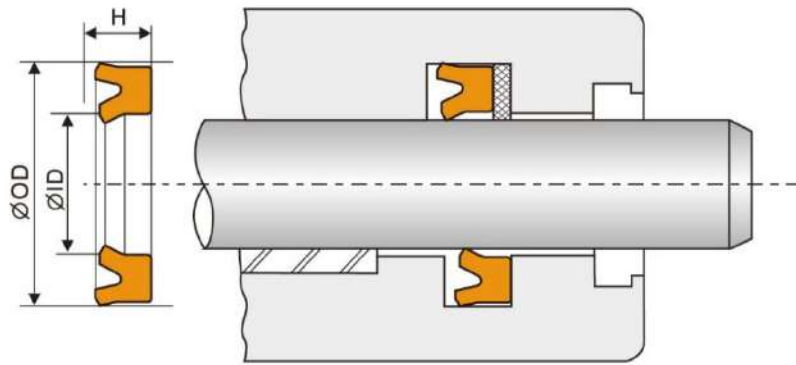


APPLICATION	
MATERIAL	PTFE+NBR
TEMP.	-31°F~230°F
PRESSURE	4900 psi
SPEED	5 ft/s

INCH

ITEM	OD	ID	h	H
TGO-1.250	1.250	0.990	0.070	0.083
TGO-2.000	2.000	1.608	0.115	0.129
TGO-2.250	2.250	1.858	0.115	0.129
TGO-2.500	2.500	2.108	0.115	0.129
TGO-2.750	2.750	2.358	0.115	0.129
TGO-3.000	3.000	2.608	0.115	0.129
TGO-3.250	3.250	2.858	0.129	0.129
TGO-3.500	3.500	3.108	0.115	0.129
TGO-4.000	4.000	3.608		0.129
TGO-4.500	4.500	4.000		0.129
TGO-4.500	4.500	4.108		0.129
TGO-5.000	5.000	4.608		0.129
TGO-2.750	2.750	2.348		0.150
TGO-3.000	3.000	2.603		0.150
TGO-4.500	4.500	4.060		0.157
TGO-6.000	6.000	5.560		0.157

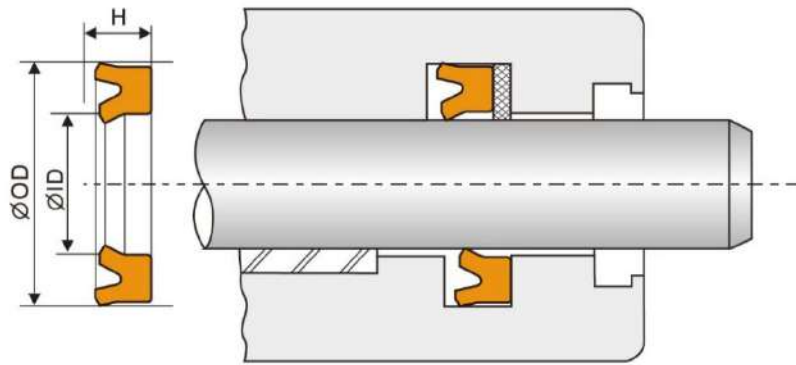
DRU ROD SEAL



APPLICATION	
MATERIAL	PU
TEMP.	-40°F~230°F
PRESSURE	5600 psi
SPEED	1.6 ft/s

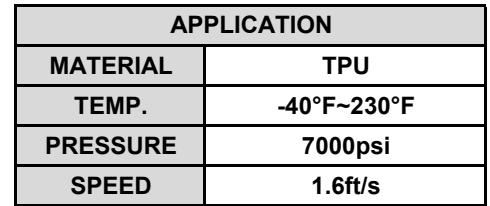
ITEM	ID	OD	H
* DRU-1.000	1.000	1.500	0.250
* DRU-1.125	1.125	1.625	0.250
* DRU-1.250	1.250	1.750	0.250
* DRU-2.000	2.000	2.500	0.250
* DRU-2.500	2.500	3.000	0.250
* DRU-4.000	4.000	4.500	0.250
* DRU-1.250	1.250	1.750	0.313
* DRU-1.500	1.500	2.000	0.313
* DRU-1.625	1.625	2.125	0.313
* DRU-2.000	2.000	2.500	0.313
* DRU-2.500	2.500	3.000	0.313
* DRU-0.938	0.938	1.438	0.375
* DRU-1.375	1.375	2.000	0.375
* DRU-1.875	1.875	2.375	0.375
* DRU-2.000	2.000	2.625	0.375
* DRU-2.000	2.000	2.750	0.375
* DRU-2.125	2.125	2.625	0.375
* DRU-2.250	2.250	2.875	0.375
* DRU-2.375	2.375	2.875	0.375
* DRU-2.375	2.375	3.000	0.375
* DRU-2.625	2.625	3.125	0.375
* DRU-2.750	2.750	3.375	0.375
* DRU-3.000	3.000	3.625	0.375
* DRU-3.000	3.000	3.750	0.375
* DRU-3.375	3.375	3.875	0.375
* DRU-3.500	3.500	4.250	0.375
* DRU-3.625	3.625	4.375	0.375
* DRU-4.000	4.000	4.750	0.375
* DRU-4.500	4.500	5.125	0.375
* DRU-4.750	4.750	5.500	0.375
* DRU-2.000	2.000	2.750	0.500
* DRU-2.250	2.250	2.875	0.500
* DRU-2.375	2.375	3.000	0.500
* DRU-3.375	3.375	4.000	0.500
* DRU-3.500	3.500	4.250	0.500

DRU ROD SEAL

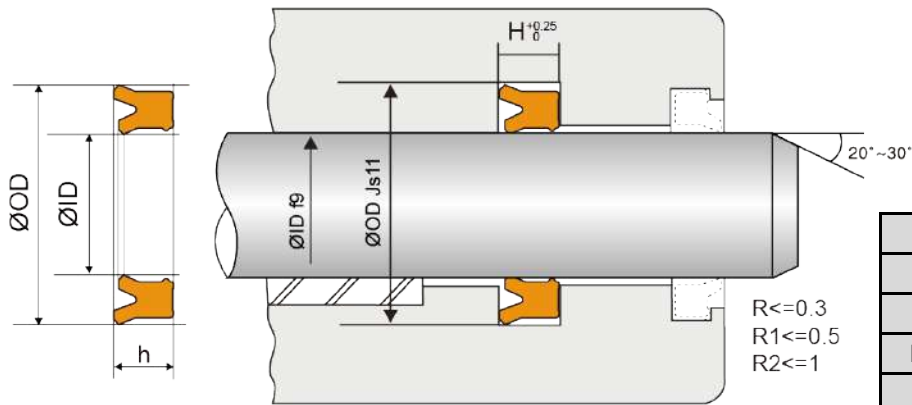


APPLICATION	
MATERIAL	PU
TEMP.	-40°F~230°F
PRESSURE	5600 psi
SPEED	1.6 ft/s

ITEM	ID	OD	H
* DRU-3.750	3.750	4.375	0.500
* DRU-4.000	4.000	4.625	0.500
* DRU-4.000	4.000	4.750	0.500
* DRU-4.375	4.375	5.125	0.500
* DRU-4.500	4.500	5.250	0.500
* DRU-4.875	4.875	5.625	0.500
* DRU-6.500	6.500	7.250	0.500
* DRU-4.000	4.000	4.500	0.563
* DRU-4.500	4.500	5.000	0.563
* DRU-5.000	5.000	5.500	0.563
* DRU-3.750	3.750	4.250	0.594
* DRU-5.250	5.250	5.750	0.594
* DRU-6.750	6.750	7.250	0.594
* DRU-3.000	3.000	3.750	0.625
* DRU-4.250	4.250	5.000	0.625
* DRU-5.250	5.250	6.000	0.625
* DRU-5.750	5.750	6.500	0.625
* DRU-6.000	6.000	6.750	0.625

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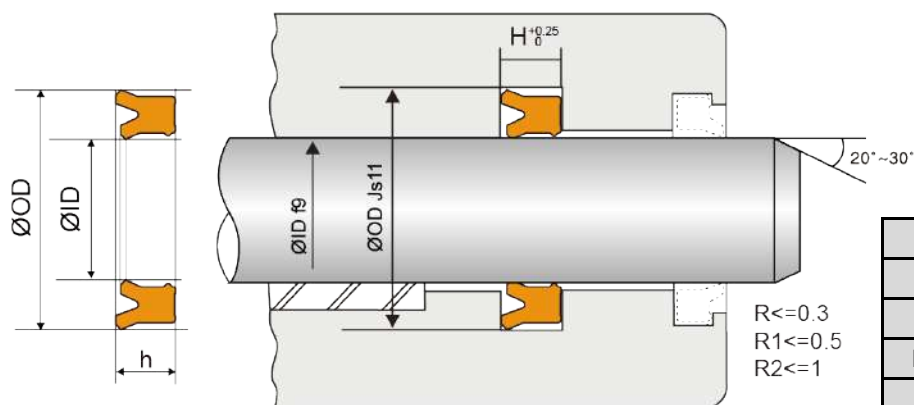
RU1 ROD SEAL



APPLICATION	
MATERIAL	TPU
TEMP.	-40°F~230°F
PRESSURE	7000psi
SPEED	1.6ft/s

ITEM	ID	OD	h	H
RU1-1.500	1.500	1.875	0.312	0.344
RU1-1.625	1.625	2.000	0.312	0.344
RU1-1.750	1.750	2.125	0.312	0.344
RU1-1.875	1.875	2.250	0.312	0.344
RU1-2.000	2.000	2.375	0.312	0.344
RU1-2.000	2.000	2.500	0.312	0.344
RU1-2.500	2.500	2.875	0.312	0.344
RU1-2.750	2.750	3.250	0.312	0.344
RU1-3.500	3.500	4.000	0.312	0.344
* RU1-5.500	5.500	6.125	0.312	0.344
* RU1-1.125	1.125	1.500	0.343	0.378
RU1-1.000	1.000	1.500	0.375	0.413
RU1-1.250	1.250	1.625	0.375	0.413
RU1-1.250	1.250	1.750	0.375	0.413
RU1-1.375	1.375	1.875	0.375	0.413
RU1-1.500	1.500	1.875	0.375	0.413
RU1-1.500	1.500	2.000	0.375	0.413
RU1-1.625	1.625	2.000	0.375	0.413
RU1-1.625	1.625	2.125	0.375	0.413
RU1-1.750	1.750	2.125	0.375	0.413
RU1-1.750	1.750	2.250	0.375	0.413
RU1-1.875	1.875	2.250	0.375	0.413
RU1-1.875	1.875	2.375	0.375	0.413
RU1-2.000	2.000	2.375	0.375	0.413
RU1-2.000	2.000	2.500	0.375	0.413
RU1-2.125	2.125	2.500	0.375	0.413
RU1-2.125	2.125	2.625	0.375	0.413
RU1-2.250	2.250	2.625	0.375	0.413
RU1-2.250	2.250	2.750	0.375	0.413
RU1-2.375	2.375	2.750	0.375	0.413
RU1-2.500	2.500	2.875	0.375	0.413
RU1-2.500	2.500	3.000	0.375	0.413
RU1-2.750	2.750	3.250	0.375	0.413
RU1-2.750	2.750	3.375	0.375	0.413
RU1-3.000	3.000	3.375	0.375	0.413
RU1-3.000	3.000	3.500	0.375	0.413

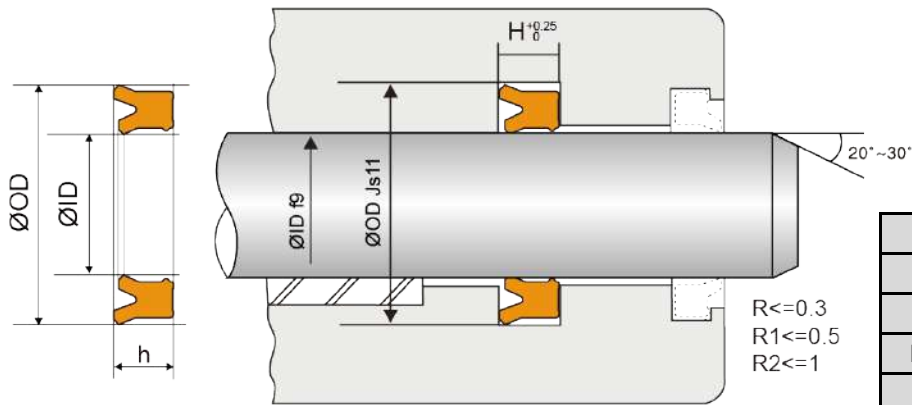
RU1 ROD SEAL



APPLICATION	
MATERIAL	TPU
TEMP.	-40°F~230°F
PRESSURE	7000psi
SPEED	1.6ft/s

ITEM	ID	OD	h	H
RU1-3.125	3.125	3.500	0.375	0.413
RU1-3.250	3.250	3.750	0.375	0.413
RU1-3.500	3.500	3.875	0.375	0.413
RU1-3.500	3.500	4.000	0.375	0.413
RU1-3.750	3.750	4.250	0.375	0.413
RU1-4.000	4.000	4.375	0.375	0.413
RU1-4.000	4.000	4.500	0.375	0.413
RU1-4.500	4.500	5.000	0.375	0.413
RU1-4.750	4.750	5.125	0.375	0.413
RU1-5.000	5.000	5.500	0.375	0.413
RU1-5.500	5.500	6.000	0.375	0.413
* RU1-5.625	5.625	6.125	0.375	0.413
* RU1-7.500	7.500	8.000	0.375	0.413
* RU1-8.000	8.000	8.500	0.375	0.413
* RU1-8.500	8.500	9.000	0.375	0.413
* RU1-9.750	9.750	10.250	0.375	0.413
RU1-2.000	2.000	2.625	0.500	0.550
RU1-2.250	2.250	2.875	0.500	0.550
RU1-2.500	2.500	3.000	0.500	0.550
RU1-2.500	2.500	3.125	0.500	0.550
RU1-2.625	2.625	3.125	0.500	0.550
RU1-2.750	2.750	3.375	0.500	0.550
RU1-3.000	3.000	3.625	0.500	0.550
RU1-4.000	4.000	4.625	0.500	0.550
RU1-3.250	3.250	3.625	0.562	0.619
RU1-4.000	4.000	4.500	0.562	0.619
* RU1-5.500	5.500	6.000	0.562	0.619
* RU1-6.000	6.000	6.500	0.562	0.619
* RU1-6.000	6.000	6.531	0.562	0.619
* RU1-7.000	7.000	7.500	0.562	0.619
* RU1-7.000	7.000	7.531	0.562	0.619
* RU1-8.000	8.000	8.500	0.562	0.619
* RU1-9.000	9.000	9.500	0.562	0.619
* RU1-10.00	10.000	10.500	0.562	0.619
RU1-3.125	3.125	3.500	0.625	0.688
* RU1-5.000	5.000	5.750	0.625	0.688

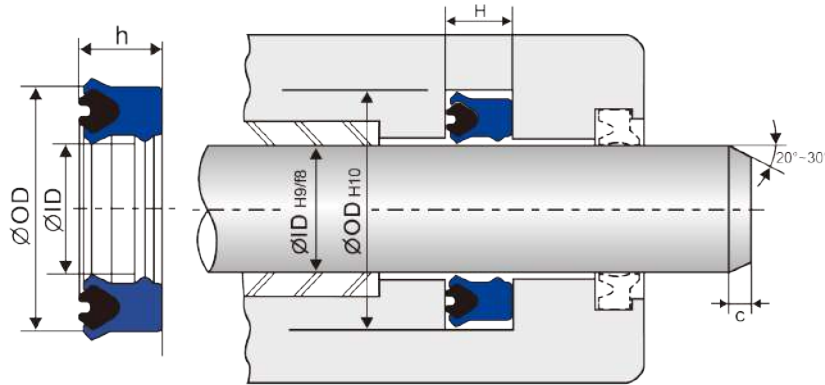
RU1 ROD SEAL



APPLICATION	
MATERIAL	TPU
TEMP.	-40°F~230°F
PRESSURE	7000psi
SPEED	1.6ft/s

ITEM	ID	OD	h	H
RU1-5.500	5.500	6.250	0.625	0.688
* RU1-6.000	6.000	6.750	0.625	0.688
* RU1-6.500	6.500	7.250	0.625	0.688
* RU1-7.000	7.000	7.750	0.625	0.688
* RU1-7.750	7.750	8.500	0.625	0.688
* RU1-8.000	8.000	8.750	0.625	0.688
* RU1-9.250	9.250	10.000	0.625	0.688
RU1-3.000	3.000	3.500	0.750	0.825
RU1-4.000	4.000	4.500	0.750	0.825
RU1-2.000	2.000	2.500	0.781	0.859
RU1-3.000	3.000	3.500	0.781	0.859
RU1-4.000	4.000	4.500	0.781	0.859
RU1-5.000	5.000	5.500	0.781	0.859
RU1-7.000	7.000	7.500	0.781	0.859
RU1-6.000	6.000	6.500	0.781	0.859
* RU1-8.125	8.125	8.625	0.781	0.859
* RU1-9.375	9.375	9.875	0.781	0.859

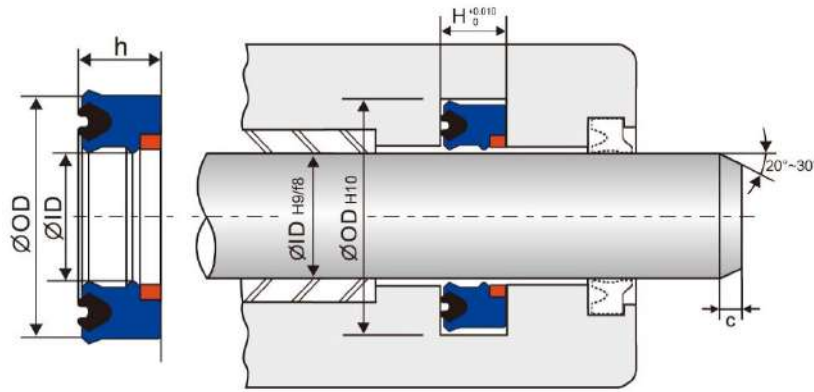
RV1 ROD SEAL



APPLICATION	
MATERIAL	PU+NBR
TEMP.	-50 ° F~230°F
PRESSURE	6000 psi
SPEED	3.0 ft/sec

ITEM	ID	OD	h	H
* RV1-1.000	1.000	1.250	0.250	0.275
* RV1-1.125	1.125	1.375	0.250	0.275
* RV1-1.250	1.250	1.500	0.250	0.275
* RV1-1.375	1.375	1.750	0.250	0.275
RV1-1.125	1.125	1.500	0.312	0.344
RV1-1.250	1.250	1.625	0.312	0.344
RV1-1.375	1.375	1.750	0.312	0.344
RV1-1.500	1.500	1.875	0.312	0.344
RV1-3.500	3.500	3.875	0.312	0.344
* RV1-1.250	1.250	1.750	0.375	0.413
* RV1-1.375	1.375	1.875	0.375	0.413
RV1-1.500	1.500	2.000	0.375	0.413
* RV1-1.750	1.750	2.125	0.375	0.413
RV1-1.750	1.750	2.250	0.375	0.413
RV1-2.000	2.000	2.500	0.375	0.413
RV1-2.250	2.250	2.750	0.375	0.413
RV1-2.500	2.500	3.000	0.375	0.413
RV1-2.750	2.750	3.250	0.375	0.413
RV1-3.000	3.000	3.500	0.375	0.413
RV1-3.500	3.500	4.000	0.375	0.413
* RV1-4.000	4.000	4.500	0.375	0.413
RV1-4.500	4.500	5.000	0.375	0.413
RV1-3.500	3.500	4.125	0.500	0.550
RV1-4.000	4.000	4.625	0.500	0.550
RV1-4.500	4.500	5.125	0.500	0.550
RV1-4.7500	4.750	5.375	0.500	0.550
RV1-5.000	5.000	5.750	0.625	0.688
RV1-6.000	6.000	6.750	0.625	0.688

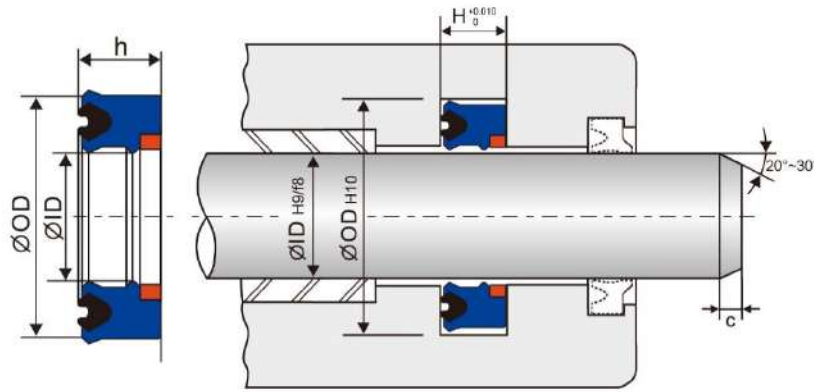
RP1 ROD SEAL



APPLICATION	
MATERIAL	PU+NBR+POM
TEMP.	-50°F~230°F
PRESSURE	7250 psi
SPEED	3 ft/s

ITEM	ID	OD	h	H
RP1-1.250	1.250	1.625	0.250	0.275
RP1-1.500	1.500	1.875	0.250	0.275
RP1-1.750	1.750	2.125	0.250	0.275
RP1-1.250	1.250	1.625	0.312	0.344
RP1-1.500	1.500	1.875	0.312	0.344
RP1-1.375	1.375	1.875	0.375	0.413
RP1-1.500	1.500	2.000	0.375	0.413
RP1-1.750	1.750	2.125	0.375	0.413
RP1-1.750	1.750	2.250	0.375	0.413
RP1-2.000	2.000	2.375	0.375	0.413
RP1-2.000	2.000	2.500	0.375	0.413
* RP1-2.125	2.125	2.625	0.375	0.413
RP1-2.250	2.250	2.750	0.375	0.413
RP1-2.375	2.375	2.875	0.375	0.413
RP1-2.500	2.500	3.000	0.375	0.413
RP1-2.750	2.750	3.250	0.375	0.413
RP1-3.000	3.000	3.500	0.375	0.413
RP1-3.250	3.250	3.750	0.375	0.413
RP1-3.500	3.500	4.000	0.375	0.413
RP1-3.625	3.625	4.125	0.375	0.413
* RP1-3.750	3.750	4.125	0.375	0.413
RP1-3.750	3.750	4.250	0.375	0.413
RP1-4.000	4.000	4.500	0.375	0.413
* RP1-4.000	4.000	4.625	0.375	0.413
RP1-4.500	4.500	5.000	0.375	0.413
* RP1-4.500	4.500	5.125	0.375	0.413
* RP1-4.750	4.750	5.500	0.375	0.413
* RP1-5.500	5.500	6.125	0.375	0.413
RP1-2.500	2.500	3.125	0.500	0.550
RP1-3.000	3.000	3.625	0.500	0.550
RP1-3.500	3.500	4.125	0.500	0.550
* RP1-4.000	4.000	4.625	0.500	0.550
RP1-6.500	6.500	7.250	0.500	0.550
* RP1-7.000	7.000	7.500	0.500	0.550
RP1-4.000	4.000	4.500	0.562	0.619
RP1-4.000	4.000	4.625	0.562	0.619
RP1-4.500	4.500	5.000	0.562	0.619

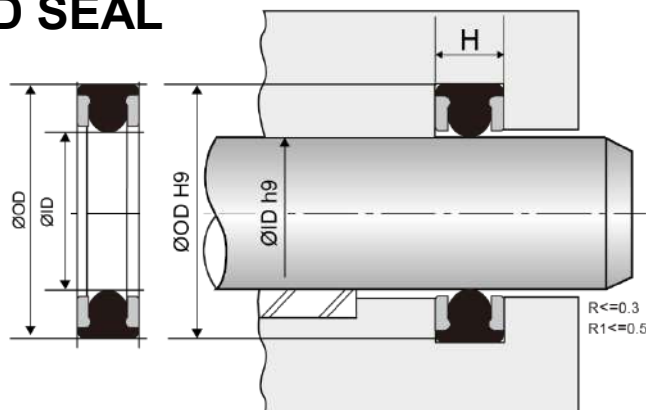
RP1 ROD SEAL



APPLICATION	
MATERIAL	PU+NBR+POM
TEMP.	-50°F~230°F
PRESSURE	7250 psi
SPEED	3 ft/s

ITEM	ID	OD	h	H
RP1-5.000	5.000	5.500	0.562	0.619
RP1-5.500	5.500	6.000	0.562	0.619
RP1-6.000	6.000	6.500	0.562	0.619
* RP1-6.750	6.750	7.250	0.562	0.619
* RP1-7.000	7.000	7.625	0.562	0.619
* RP1-7.000	7.000	7.750	0.562	0.619
* RP1-8.000	8.000	8.500	0.562	0.619
* RP1-10.000	10.00	10.500	0.562	0.619
* RP1-10.500	10.50	11.125	0.562	0.619
* RP1-13.000	13.00	13.625	0.562	0.619
RP1-3.000	3.000	3.750	0.625	0.688
RP1-3.250	3.250	3.750	0.625	0.688
* RP1-3.250	3.250	4.000	0.625	0.688
RP1-3.500	3.500	4.250	0.625	0.688
RP1-4.000	4.000	4.750	0.625	0.688
* RP1-4.250	4.250	5.000	0.625	0.688
RP1-4.500	4.500	5.125	0.625	0.688
RP1-4.500	4.500	5.250	0.625	0.688
* RP1-4.750	4.750	5.500	0.625	0.688
RP1-5.000	5.000	5.625	0.625	0.688
RP1-5.000	5.000	5.750	0.625	0.688
* RP1-5.250	5.250	6.000	0.625	0.688
* RP1-5.750	5.750	6.500	0.625	0.688
RP1-6.000	6.000	6.750	0.625	0.688
* RP1-6.250	6.250	7.000	0.625	0.688
RP1-7.000	7.000	7.750	0.625	0.688
RP1-8.000	8.000	8.750	0.625	0.688
RP1-8.500	8.500	9.250	0.625	0.688
* RP1-9.000	9.000	9.750	0.625	0.688
* RP1-10.000	10.00	10.750	0.625	0.688
* RP1-11.000	11.00	11.750	0.625	0.688
* RP1-12.000	12.00	12.750	0.625	0.688
* RP1-9.000	9.000	10.000	0.750	0.825
* RP1-10.000	10.00	11.000	0.750	0.825
* RP1-12.000	12.00	13.000	0.750	0.825
* RP1-14.000	14.00	15.000	0.750	0.825
* RP1-15.000	15.00	16.000	0.750	0.825

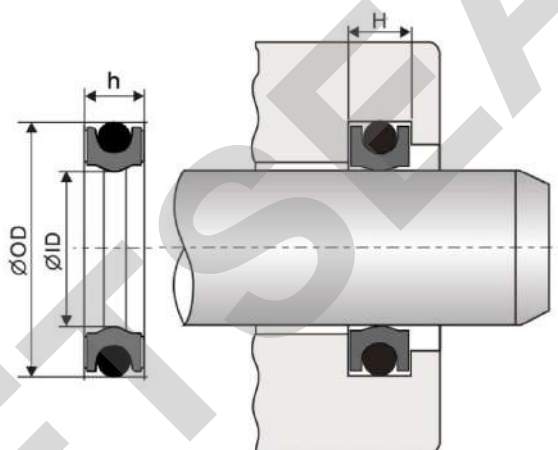
TSR ROD SEAL



APPLICATION	
MATERIAL	NY+NBR
TEMP.	-40°F~212°F
PRESSURE	3500 psi
SPEED	3.2 ft/s

ITEM	ID	OD	H	S	R	C
* TSR-0.750	0.750	1.000	0.187	0.125	0.02	0.125
TSR-1.500	1.500	1.875	0.281	0.187	0.025	0.125
TSR-2.062	2.062	2.437	0.281	0.187	0.025	0.125
TSR-2.250	2.250	2.625	0.281	0.187	0.025	0.125
TSR-3.5	3.5	3.875	0.281			

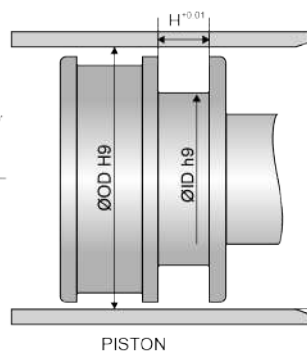
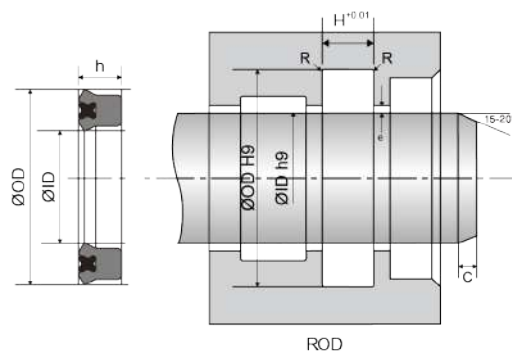
CR1 ROD SEAL



APPLICATION	
MATERIAL	PU+NBR
TEMP.	-31°F~212°F
PRESSURE	5000 psi
SPEED	3.2 ft/s

ITEM	ID	OD	h
CR-4.50	4.875	4.5	0.25
CR-5.75	6.222	5.75	0.375

RX1 PISTON & ROD SEAL



APPLICATION	
MATERIAL	PU+NBR
TEMP.	-40°F~248°F
PRESSURE	5600 psi
SPEED	1.6 ft/s

ITEM	ID	OD	h	H
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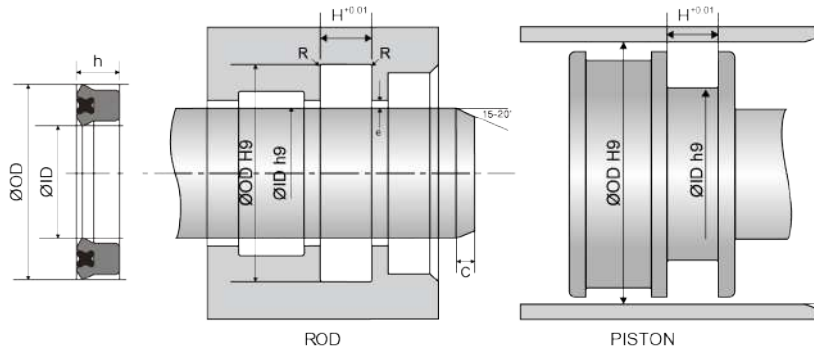
1/8 CROSS SECTION

RX1-0.437	0.437	0.687	0.125	0.138
RX1-0.562	0.562	0.812	0.125	0.138
RX1-0.625	0.625	0.875	0.125	0.138
RX1-0.687	0.687	0.937	0.125	0.138
RX1-0.750	0.750	1.000	0.125	0.138
RX1-1.000	1.000	1.250	0.250	0.275
* RX1-1.062	1.062	1.312	0.125	0.138
* RX1-1.062	1.062	1.312	0.250	0.275
* RX1-1.125	1.125	1.375	0.125	0.138
* RX1-1.125	1.125	1.375	0.250	0.275
* RX1-1.187	1.187	1.437	0.125	0.138
* RX1-1.187	1.187	1.437	0.250	0.275
* RX1-1.250	1.250	1.500	0.125	0.138
RX1-1.250	1.250	1.500	0.250	0.275
* RX1-1.312	1.312	1.562	0.187	0.206
* RX1-1.375	1.375	1.625	0.250	0.275
* RX1-1.437	1.437	1.687	0.250	0.275
* RX1-1.500	1.500	1.750	0.187	0.206
* RX1-1.500	1.500	1.750	0.250	0.275
RX1-2.000	2.000	2.250	0.250	0.275

3/16 CROSS SECTION

* RX1-1.000	1.000	1.375	0.187	0.207
* RX1-1.000	1.000	1.375	0.375	0.413
* RX1-1.000	1.000	1.375	0.312	0.344
* RX1-1.062	1.062	1.437	0.187	0.207
* RX1-1.062	1.062	1.437	0.312	0.344
* RX1-1.125	1.125	1.500	0.250	0.275
RX1-1.125	1.125	1.500	0.312	0.344
* RX1-1.187	1.187	1.562	0.187	0.207
* RX1-1.187	1.187	1.562	0.312	0.344
* RX1-1.250	1.250	1.625	0.250	0.275
RX1-1.250	1.250	1.625	0.312	0.344
* RX1-1.312	1.312	1.687	0.312	0.344
* RX1-1.375	1.375	1.750	0.250	0.275
RX1-1.375	1.375	1.750	0.312	0.344
* RX1-1.437	1.437	1.812	0.312	0.344

RX1 PISTON & ROD SEAL



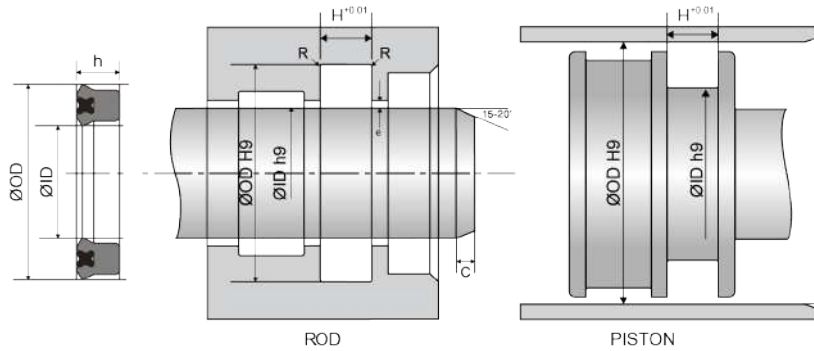
APPLICATION	
MATERIAL	PU+NBR
TEMP.	-40°F~248°F
PRESSURE	5600 psi
SPEED	1.6 ft/s

ITEM	ID	OD	h	H
* RX1-1.500	1.500	1.875	0.250	0.275
* RX1-1.500	1.500	1.875	0.375	0.413
* RX1-1.625	1.625	2.000	0.312	0.344
* RX1-1.625	1.625	2.000	0.375	0.413
RX1-1.750	1.750	2.125	0.187	0.207
RX1-1.750	1.750	2.125	0.250	0.275
* RX1-1.750	1.750	2.125	0.375	0.413
* RX1-1.875	1.875	2.250	0.312	0.344
* RX1-1.875	1.875	2.250	0.375	0.413
* RX1-2.000	2.000	2.375	0.250	0.275
* RX1-2.000	2.000	2.375	0.375	0.413
* RX1-2.125	2.125	2.500	0.250	0.275
* RX1-2.125	2.125	2.500	0.187	0.207
* RX1-2.125	2.125	2.500	0.375	0.413
* RX1-2.250	2.250	2.625	0.312	0.344
* RX1-2.250	2.250	2.625	0.375	0.413
RX1-2.375	2.375	2.750	0.250	0.275
* RX1-2.375	2.375	2.750		0.293
* RX1-2.375	2.375	2.750	0.500	0.550
* RX1-2.375	2.375	2.750	0.375	0.413
* RX1-2.500	2.500	2.875	0.250	0.275
* RX1-2.500	2.500	2.875	0.375	0.413
* RX1-2.625	2.625	3.000	0.250	0.275
* RX1-2.625	2.625	3.000	0.375	0.413
* RX1-2.750	2.750	3.125		0.309
* RX1-2.750	2.750	3.125	0.375	0.413
RX1-2.875	2.875	3.250	0.250	0.275
* RX1-2.875	2.875	3.250	0.375	0.413
* RX1-3.000	3.000	3.375	0.312	0.344
* RX1-3.000	3.000	3.375	0.375	0.413
RX1-3.125	3.125	3.500	0.250	0.275
* RX1-3.125	3.125	3.500	0.312	0.344

1/4 CROSS SECTION

RX1-1.375	1.375	1.875	0.375	0.413
RX1-1.500	1.500	2.000	0.375	0.413
RX1-1.750	1.750	2.250	0.375	0.413
* RX1-1.875	1.875	2.375	0.312	0.344
* RX1-1.875	1.875	2.375	0.375	0.413

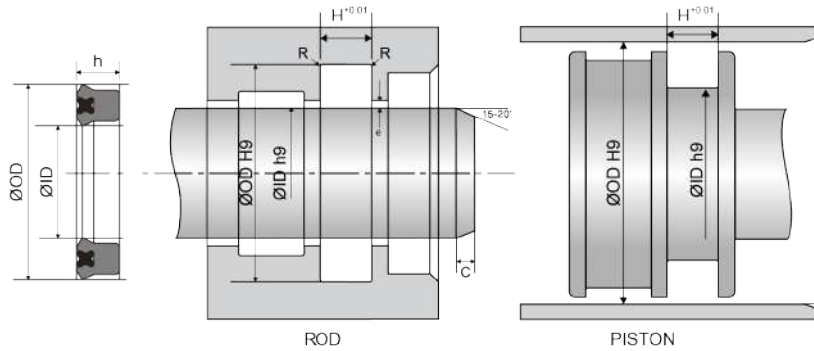
RX1 PISTON & ROD SEAL



APPLICATION	
MATERIAL	PU+NBR
TEMP.	-40°F~248°F
PRESSURE	5600 psi
SPEED	1.6 ft/s

ITEM	ID	OD	h	H
RX1-2.000	2.000	2.500	0.375	0.413
* RX1-2.125	2.125	2.625	0.375	0.413
* RX1-2.250	2.250	2.750	0.250	0.275
RX1-2.250	2.250	2.750	0.375	0.413
* RX1-2.375	2.375	2.875	0.250	0.275
* RX1-2.375	2.375	2.875	0.375	0.413
RX1-2.500	2.500	3.000	0.375	0.413
RX1-2.500	2.500	3.000	0.312	0.344
* RX1-2.500	2.500	3.000	0.500	0.550
* RX1-2.625	2.625	3.125	0.375	0.413
* RX1-2.750	2.750	3.250	0.500	0.550
RX1-2.750	2.750	3.250	0.375	0.413
* RX1-2.875	2.875	3.375	0.375	0.413
* RX1-3.000	3.000	3.500	0.375	0.413
RX1-3.000	3.000	3.500	0.500	0.550
RX1-3.125	3.125	3.625	0.375	0.413
* RX1-3.250	3.250	3.750	0.500	0.550
RX1-3.250	3.250	3.750	0.375	0.413
* RX1-3.375	3.375	3.875	0.375	0.413
* RX1-3.500	3.500	4.000	0.250	0.275
RX1-3.500	3.500	4.000	0.375	0.413
* RX1-3.625	3.625	4.125	0.375	0.413
* RX1-4.000	4.000	4.500	0.375	0.413
* RX1-4.000	4.000	4.500	0.562	0.619
* RX1-4.125	4.125	4.625	0.375	0.413
* RX1-4.125	4.125	4.625	0.562	0.619
* RX1-4.250	4.250	4.750	0.375	0.413
* RX1-4.250	4.250	4.750	0.562	0.619
* RX1-4.375	4.375	4.875	0.562	0.619
* RX1-4.500	4.500	5.000	0.375	0.413
* RX1-4.500	4.500	5.000	0.562	0.619
* RX1-4.625	4.625	5.125	0.562	0.619
RX1-4.750	4.750	5.250	0.250	0.275
* RX1-4.750	4.750	5.250	0.562	0.619
* RX1-4.875	4.875	5.375	0.562	0.619
* RX1-5.000	5.000	5.500	0.375	0.413
* RX1-5.000	5.000	5.500	0.562	0.619
RX1-5.250	5.250	5.750	0.375	0.413

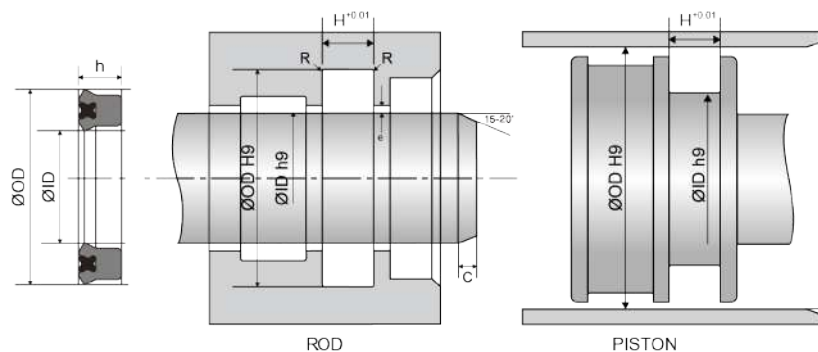
RX1 PISTON & ROD SEAL



APPLICATION	
MATERIAL	PU+NBR
TEMP.	-40°F~248°F
PRESSURE	5600 psi
SPEED	1.6 ft/s

ITEM	ID	OD	h	H
5/16 CROSS SECTION				
* RX1-2.250	2.250	2.875	0.375	0.413
* RX1-2.250	2.250	2.875	0.500	0.550
* RX1-2.375	2.375	3.000	0.375	0.413
* RX1-2.375	2.375	3.000	0.500	0.550
* RX1-2.500	2.500	3.125	0.375	0.413
* RX1-2.500	2.500	3.125	0.500	0.550
* RX1-2.625	2.625	3.250	0.500	0.550
* RX1-2.750	2.750	3.375	0.500	0.550
* RX1-2.875	2.875	3.500	0.312	0.433
* RX1-2.875	2.875	3.500	0.500	0.550
* RX1-3.000	3.000	3.625	0.375	0.413
* RX1-3.000	3.000	3.625	0.500	0.550
* RX1-3.125	3.125	3.750	0.500	0.550
* RX1-3.250	3.250	3.875	0.500	0.550
* RX1-3.375	3.375	4.000	0.500	0.550
* RX1-3.500	3.500	4.125	0.500	0.550
* RX1-3.625	3.625	4.250	0.375	0.413
* RX1-3.625	3.625	4.250	0.500	0.550
* RX1-3.750	3.750	4.375	0.375	0.413
* RX1-3.750	3.750	4.375	0.500	0.550
* RX1-3.875	3.875	4.500	0.500	0.550
* RX1-4.000	4.000	4.625	0.375	0.413
* RX1-4.000	4.000	4.625	0.562	0.619
* RX1-4.125	4.125	4.750	0.500	0.550
* RX1-4.125	4.125	4.750	0.562	0.619
* RX1-4.250	4.250	4.875	0.562	0.619
* RX1-4.375	4.375	5.000	0.500	0.550
* RX1-4.375	4.375	5.000	0.562	0.619
* RX1-4.500	4.500	5.125	0.500	0.550
* RX1-4.500	4.500	5.125	0.625	0.688
* RX1-4.625	4.625	5.250	0.312	0.344
* RX1-4.625	4.625	5.250	0.625	0.688
* RX1-4.750	4.750	5.375	0.500	0.550
* RX1-4.750	4.750	5.375	0.625	0.688
* RX1-5.000	5.000	5.625	0.375	0.413
RX1-5.000	5.000	5.625	0.625	0.688

RX1 PISTON & ROD SEAL



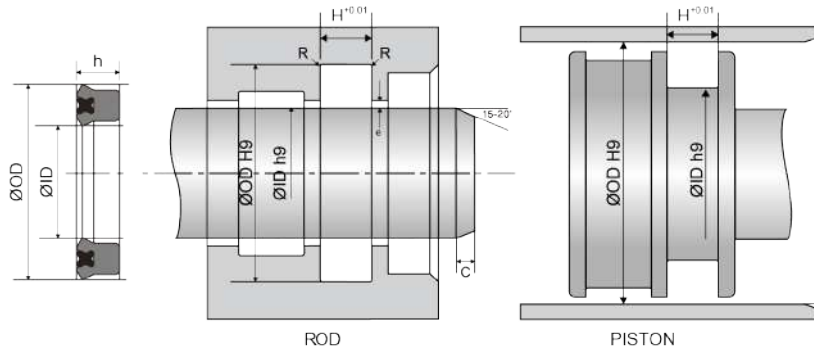
APPLICATION	
MATERIAL	PU+NBR
TEMP.	-40°F~248°F
PRESSURE	5600 psi
SPEED	1.6 ft/s

ITEM	ID	OD	h	H
* RX1-5.250	5.250	5.875	0.625	0.688
* RX1-5.375	5.375	6.000	0.375	0.413
* RX1-5.375	5.375	6.000	0.625	0.688
* RX1-5.625	5.625	6.250	0.625	0.688
* RX1-5.750	5.750	6.375	0.625	0.688
* RX1-5.875	5.875	6.500	0.375	0.413
* RX1-6.000	6.000	6.625	0.625	0.688
* RX1-6.375	6.375	7.000	0.625	0.688
* RX1-6.500	6.500	7.125	0.625	0.688

3/8 CROSS SECTION

* RX1-3.000	3.000	3.750	0.500	0.550
* RX1-3.000	3.000	3.750	0.625	0.688
* RX1-3.125	3.125	3.875	0.625	0.688
* RX1-3.250	3.250	4.000	0.500	0.550
* RX1-3.250	3.250	4.000	0.625	0.688
* RX1-3.375	3.375	4.125	0.625	0.688
* RX1-3.500	3.500	4.250	0.500	0.550
* RX1-3.625	3.625	4.375	0.500	0.550
* RX1-3.625	3.625	4.375	0.625	0.688
RX1-3.750	3.750	4.500	0.375	0.413
* RX1-3.750	3.750	4.500	0.625	0.688
* RX1-3.875	3.875	4.625	0.625	0.688
* RX1-4.000	4.000	4.750	0.500	0.550
* RX1-4.000	4.000	4.750	0.625	0.688
* RX1-4.250	4.250	5.000	0.500	0.550
* RX1-4.250	4.250	5.000	0.625	0.688
* RX1-4.375	4.375	5.125	0.500	0.550
* RX1-4.375	4.375	5.125	0.625	0.688
* RX1-4.500	4.500	5.250	0.500	0.550
* RX1-4.500	4.500	5.250	0.625	0.688
* RX1-4.625	4.625	5.375	0.625	0.688
* RX1-4.750	4.750	5.500	0.500	0.550
* RX1-4.875	4.875	5.625	0.625	0.688
* RX1-5.000	5.000	5.750	0.500	0.550
* RX1-5.000	5.000	5.750	0.625	0.688
* RX1-5.125	5.125	5.875	0.625	0.688
* RX1-5.250	5.250	6.000	0.500	0.550
* RX1-5.250	5.250	6.000	0.625	0.688

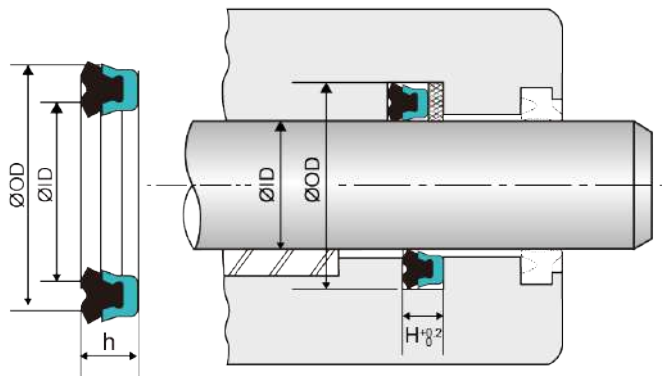
RX1 PISTON & ROD SEAL



APPLICATION	
MATERIAL	PU+NBR
TEMP.	-40°F~248°F
PRESSURE	5600 psi
SPEED	1.6 ft/s

ITEM	ID	OD	h	H
* RX1-5.375	5.375	6.125	0.625	0.688
* RX1-5.500	5.500	6.250	0.500	0.550
* RX1-5.500	5.500	6.250	0.625	0.688
* RX1-5.750	5.750	6.500	0.625	0.688
* RX1-5.875	5.875	6.625	0.625	0.688
* RX1-6.000	6.000	6.750	0.500	0.550
* RX1-6.000	6.000	6.750	0.625	0.688
* RX1-6.250	6.250	7.000	0.500	0.550
RX1-6.250	6.250	7.000	0.625	0.688
* RX1-6.500	6.500	7.250	0.500	0.550
* RX1-6.500	6.500	7.250	0.625	0.688
* RX1-6.750	6.750	7.500	0.500	0.550
* RX1-6.750	6.750	7.500	0.625	0.688
* RX1-7.000	7.000	7.750	0.500	0.550
* RX1-7.000	7.000	7.750	0.625	0.688
* RX1-7.250	7.250	8.000	0.500	0.550
* RX1-7.250	7.250	8.000	0.625	0.688
* RX1-7.500	7.500	8.250	0.500	0.550
* RX1-7.500	7.500	8.250	0.625	0.688
* RX1-7.750	7.750	8.500	0.500	0.550
* RX1-7.750	7.750	8.500	0.625	0.688
* RX1-8.000	8.000	8.750	0.625	0.688
* RX1-8.250	8.250	9.000	0.625	0.688
* RX1-8.750	8.750	9.500	0.500	0.550
* RX1-8.750	8.750	9.500	0.625	0.688
* RX1-9.000	9.000	9.750	0.625	0.688
* RX1-9.250	9.250	10.000	0.625	0.688
* RX1-9.500	9.500	10.250	0.625	0.688
* RX1-9.750	9.750	10.500	0.625	0.688
* RX1-10.000	10.000	10.750	0.625	0.688
* RX1-10.250	10.250	11.000	0.500	0.550
* RX1-10.250	10.250	11.000	0.625	0.688
* RX1-10.500	10.500	11.250	0.625	0.688
* RX1-10.750	10.750	11.500	0.625	0.688
* RX1-11.000	11.000	11.750	0.625	0.688
* RX1-11.250	11.250	12.000	0.625	0.688
* RX1-11.500	11.500	12.250	0.625	0.688
* RX1-12.000	12.000	12.750	0.625	0.688

RZ1 PISTON & ROD SEAL

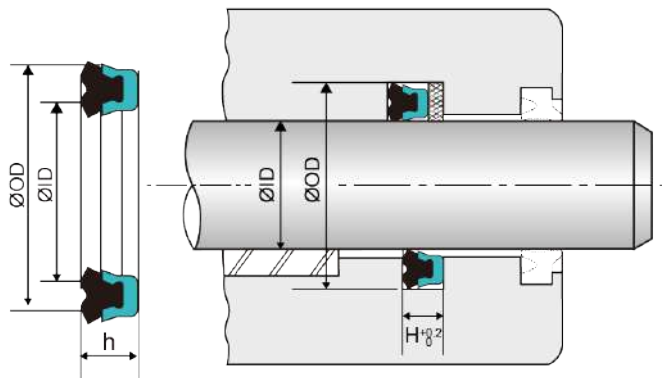


APPLICATION		
MATERIAL	HY+NBR	PU+NBR
TEMP.	-40°F~212°F	-40°F~212°F
PRESSURE	5600 psi	5600 psi
SPEED	1.6 ft/s	1.6 ft/s



ITEM	ID	OD	H	h	DZ	Z
<u>1/8 CROSS SECTION</u>						
* RZ1-0.750	0.750	1.000	0.206	0.187	•	
* RZ1-0.187	0.187	0.437	0.213	0.187		
* RZ1-0.750	0.750	1.000	0.213	0.187		
* RZ1-0.187	0.187	0.437	0.275	0.250		
* RZ1-0.500	0.500	0.750	0.275	0.250		
RZ1-0.625	0.625	0.875	0.275	0.250	•	
RZ1-0.750	0.750	1.000	0.275	0.250	•	
* RZ1-0.875	0.875	1.125	0.275	0.250	•	
RZ1-1.000	1.000	1.250	0.275	0.250	•	
RZ1-1.125	1.125	1.375	0.275	0.250	•	
RZ1-1.250	1.250	1.500	0.275	0.250	•	
* RZ1-1.500	1.500	1.750	0.275	0.250		
* RZ1-1.750	1.750	2.000	0.275	0.250		
* RZ1-1.375	1.375	1.625	0.343	0.312		
<u>5/32 CROSS SECTION</u>						
* RZ1-0.625	0.625	0.937	0.275	0.250		
* RZ1-1.500	1.500	1.812	0.343	0.312		
* RZ1-1.500	1.500	1.812	0.344	0.312	•	
<u>3/16 CROSS SECTION</u>						
RZ1-2.250	2.250	2.625	0.275	0.250		•
RZ1-1.750	1.750	2.125	0.312	0.344	•	
* RZ1-2.250	2.250	2.625	0.312	0.344		
* RZ1-0.500	0.500	0.875	0.343	0.312		
* RZ1-0.750	0.750	1.125	0.343	0.312		
RZ1-1.125	1.125	1.500	0.343	0.312	•	
* RZ1-1.187	1.187	1.562	0.343	0.312		
* RZ1-1.250	1.250	1.625	0.343	0.312		
* RZ1-1.375	1.375	1.750	0.343	0.312		
* RZ1-1.500	1.500	1.875	0.343	0.312		
* RZ1-1.625	1.625	2.000	0.343	0.312		
* RZ1-1.875	1.875	2.250	0.343	0.312		
RZ1-2.000	2.000	2.375	0.343	0.312	•	
* RZ1-2.250	2.250	2.625	0.343	0.312		

RZ1 PISTON & ROD SEAL



APPLICATION		
MATERIAL	HY+NBR	PU+NBR
TEMP.	-40°F~212°F	-40°F~212°F
PRESSURE	5600 psi	5600 psi
SPEED	1.6 ft/s	1.6 ft/s

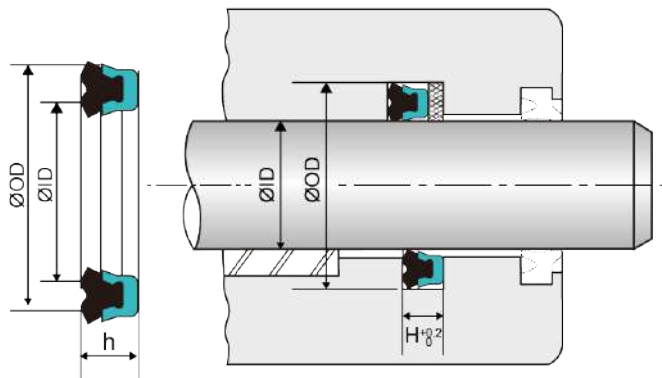


ITEM	ID	OD	H	h	DZ	Z
* RZ1-2.375	2.375	2.750	0.343	0.312		
* RZ1-2.500	2.500	2.875	0.343	0.312		
* RZ1-2.750	2.750	3.125	0.343	0.312		
* RZ1-3.000	3.000	3.375	0.343	0.312		
* RZ1-3.250	3.250	3.625	0.343	0.312		
RZ1-1.000	1.000	1.375	0.344	0.312	•	
RZ1-1.250	1.250	1.625	0.344	0.312	•	
RZ1-1.375	1.375	1.750	0.344	0.312	•	
RZ1-1.625	1.625	2.000	0.344	0.312	•	
RZ1-1.750	1.750	2.125	0.344	0.312		
RZ1-1.500	1.500	1.875	0.413	0.375	•	
* RZ1-1.625	1.625	2.000	0.413	0.375		
RZ1-1.750	1.750	2.125	0.413	0.375		
RZ1-2.000	2.000	2.375	0.413	0.375	•	
RZ1-2.250	2.250	2.625	0.413	0.375	•	
* RZ1-2.500	2.500	2.875	0.413	0.375		
RZ1-2.750	2.750	3.125	0.413	0.375	•	
* RZ1-3.000	3.000	3.375	0.413	0.375		
* RZ1-3.187	3.187	3.562	0.413	0.375		
* RZ1-4.000	4.000	4.375	0.413	0.375		
* RZ1-4.750	4.750	5.125	0.413	0.375		
RZ1-5.000	5.000	5.375	0.413	0.375	•	
* RZ1-5.500	5.500	5.875	0.413	0.375		
RZ1-5.750	5.750	6.125	0.413	0.375	•	
* RZ1-5.795	5.795	6.170	0.413	0.375		

1/4 CROSS SECTION

RZ1-3.125	3.125	3.625	0.275	0.250		•
RZ1-3.500	3.500	4.000	0.275	0.250		•
RZ1-3.750	3.750	4.250	0.275	0.250		•
* RZ1-1.125	1.125	1.625	0.344	0.312		
RZ1-3.750	3.750	4.250	0.375	0.413	•	
* RZ1-0.375	0.375	0.875	0.413	0.375		
* RZ1-1.125	1.125	1.625	0.413	0.375		
* RZ1-1.250	1.250	1.750	0.413	0.375		
* RZ1-1.375	1.375	1.875	0.413	0.375		
RZ1-1.500	1.500	2.000	0.413	0.375	•	

RZ1 PISTON & ROD SEAL

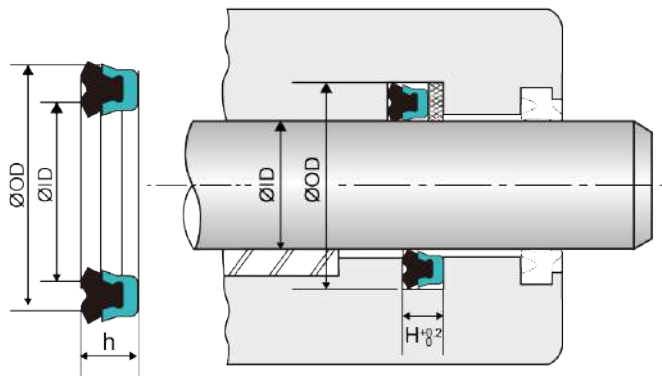


APPLICATION		
MATERIAL	HY+NBR	PU+NBR
TEMP.	-40°F~212°F	-40°F~212°F
PRESSURE	5600 psi	5600 psi
SPEED	1.6 ft/s	1.6 ft/s



ITEM	ID	OD	H	h	DZ	Z
* RZ1-1.625	1.625	2.125	0.413	0.375		
RZ1-1.750	1.750	2.250	0.413	0.375	•	•
RZ1-2.000	2.000	2.500	0.413	0.375	•	
RZ1-2.250	2.250	2.750	0.413	0.375	•	
* RZ1-2.375	2.375	2.875	0.413	0.375		
RZ1-2.500	2.500	3.000	0.413	0.375	•	
RZ1-2.625	2.625	3.125	0.413	0.375		•
RZ1-2.750	2.750	3.250	0.413	0.375	•	
* RZ1-2.875	2.875	3.375	0.413	0.375		
RZ1-3.000	3.000	3.500	0.413	0.375	•	
* RZ1-3.125	3.125	3.625	0.413	0.375		
RZ1-3.250	3.250	3.750	0.413	0.375	•	
* RZ1-3.375	3.375	3.875	0.413	0.375		
RZ1-3.500	3.500	4.000	0.413	0.375	•	
RZ1-3.750	3.750	4.250	0.413	0.375	•	
* RZ1-3.875	3.875	4.375	0.413	0.375		
RZ1-4.000	4.000	4.500	0.413	0.375	•	
* RZ1-4.250	4.250	4.750	0.413	0.375		
RZ1-4.500	4.500	5.000	0.413	0.375	•	
* RZ1-5.000	5.000	5.500	0.413	0.375		
* RZ1-5.375	5.375	5.875	0.413	0.375		
RZ1-5.500	5.500	6.000	0.413	0.375	•	
RZ1-5.750	5.750	6.250	0.413	0.375	•	
* RZ1-6.000	6.000	6.500	0.413	0.375		
* RZ1-6.500	6.500	7.000	0.413	0.375		
* RZ1-7.000	7.000	7.500	0.413	0.375		
RZ1-7.250	7.250	7.750	0.413	0.375	•	
* RZ1-8.125	8.125	8.625	0.413	0.375		
* RZ1-6.375	6.375	6.875	0.550	0.500		
* RZ1-7.250	7.250	7.750	0.550	0.500		
* RZ1-8.125	8.125	8.625	0.550	0.500		
* RZ1-1.250	1.250	1.750	0.618	0.562		
* RZ1-1.500	1.500	2.000	0.618	0.562		
* RZ1-2.000	2.000	2.500	0.618	0.562		
* RZ1-3.000	3.000	3.500	0.618	0.562		
* RZ1-3.750	3.750	4.250	0.618	0.562		

RZ1 PISTON & ROD SEAL



APPLICATION		
MATERIAL	HY+NBR	PU+NBR
TEMP.	-40°F~212°F	-40°F~212°F
PRESSURE	5600 psi	5600 psi
SPEED	1.6 ft/s	1.6 ft/s



ITEM	ID	OD	H	h	DZ	Z
* RZ1-4.000	4.000	4.500	0.618	0.562		
* RZ1-4.625	4.625	5.125	0.618	0.562		
* RZ1-4.750	4.750	5.250	0.618	0.562		
* RZ1-5.000	5.000	5.500	0.618	0.562		
* RZ1-5.250	5.250	5.750	0.618	0.562		
* RZ1-5.500	5.500	6.000	0.618	0.562		
* RZ1-6.000	6.000	6.500	0.618	0.562		
* RZ1-6.500	6.500	7.000	0.618	0.562		
* RZ1-6.750	6.750	7.250	0.618	0.562		
* RZ1-8.125	8.125	8.625	0.618	0.562		
RZ1-4.000	4.000	4.500	0.619	0.562	•	
RZ1-4.500	4.500	5.000	0.619	0.562	•	
RZ1-6.000	6.000	6.500	0.619	0.562	•	

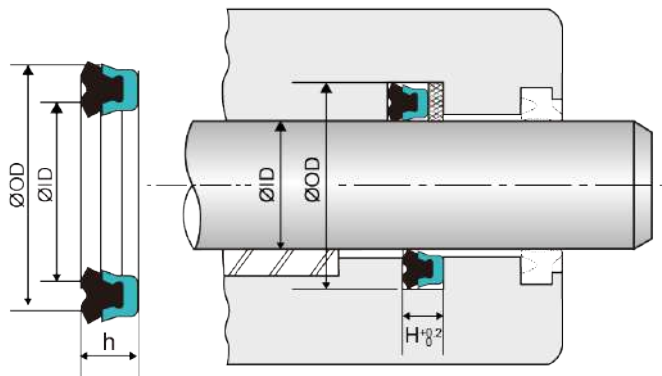
5/16 CROSS SECTION

* RZ1-3.750	3.750	4.375	0.413	0.375		
* RZ1-2.500	2.500	3.125	0.550	0.500		
* RZ1-3.000	3.000	3.625	0.550	0.500		
* RZ1-3.250	3.250	3.875	0.550	0.500		
* RZ1-3.375	3.375	4.000	0.550	0.500		
RZ1-3.500	3.500	4.125	0.550	0.500	•	
* RZ1-3.750	3.750	4.375	0.550	0.500		
* RZ1-8.875	8.875	9.500	0.550	0.500		
* RZ1-4.250	4.250	4.875	0.618	0.562		

3/8 CROSS SECTION

* RZ1-1.750	1.750	2.500	0.413	0.375		
* RZ1-7.750	7.750	8.500	0.550	0.500		
* RZ1-9.250	9.250	10.000	0.618	0.562		
RZ1-3.000	3.000	3.750	0.619	0.562	•	
* RZ1-1.250	1.250	2.000	0.688	0.625		
* RZ1-2.500	2.500	3.250	0.688	0.625		
* RZ1-2.750	2.750	3.500	0.688	0.625		
RZ1-3.000	3.000	3.750	0.688	0.625	•	
* RZ1-3.250	3.250	4.000	0.688	0.625		
RZ1-3.500	3.500	4.250	0.688	0.625	•	
* RZ1-3.625	3.625	4.375	0.688	0.625		

RZ1 PISTON & ROD SEAL



APPLICATION		
MATERIAL	HY+NBR	PU+NBR
TEMP.	-40°F~212°F	-40°F~212°F
PRESSURE	5600 psi	5600 psi
SPEED	1.6 ft/s	1.6 ft/s

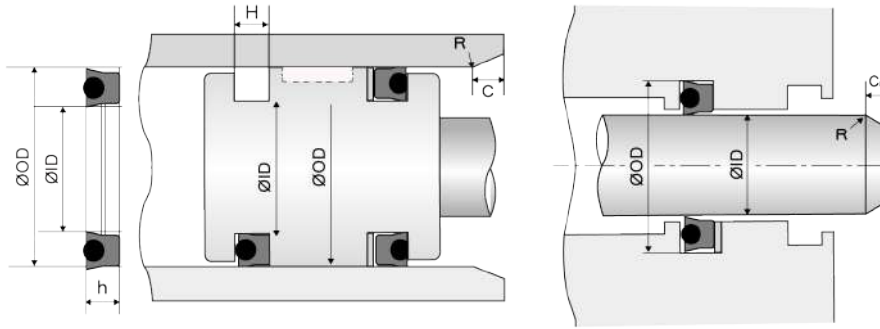


ITEM	ID	OD	H	h	DZ	Z
* RZ1-3.750	3.750	4.500	0.688	0.625		
RZ1-4.000	4.000	4.750	0.688	0.625		•
* RZ1-4.250	4.250	5.000	0.688	0.625		
* RZ1-4.500	4.500	5.250	0.688	0.625		
RZ1-4.750	4.750	5.500	0.688	0.625	•	
RZ1-5.000	5.000	5.750	0.688	0.625	•	
RZ1-5.500	5.500	6.250	0.688	0.625	•	
RZ1-5.750	5.750	6.500	0.688	0.625	•	
* RZ1-6.000	6.000	6.750	0.688	0.625		
* RZ1-6.500	6.500	7.250	0.688	0.625		
* RZ1-7.000	7.000	7.750	0.688	0.625		
* RZ1-7.500	7.500	8.250	0.688	0.625		
* RZ1-8.000	8.000	8.750	0.688	0.625		
* RZ1-8.250	8.250	9.000	0.688	0.625		
* RZ1-9.000	9.000	9.750	0.688	0.625		
* RZ1-10.500	10.500	11.250	0.688	0.625		
* RZ1-10.750	10.750	11.500	0.688	0.625		
* RZ1-1.750	1.750	2.500	0.825	0.750		
* RZ1-4.000	4.000	4.750	0.825	0.750		
* RZ1-4.500	4.500	5.250	0.825	0.750		
* RZ1-3.000	3.000	3.750	0.965	0.875		
* RZ1-3.625	3.625	4.375	0.965	0.875		

1/2 CROSS SECTION

* RZ1-3.500	3.500	4.500	0.825	0.750		
* RZ1-4.000	4.000	5.000	0.825	0.750		
RZ1-6.000	6.000	7.000	0.825	0.750	•	
* RZ1-7.000	7.000	8.000	0.825	0.750		
* RZ1-8.000	8.000	9.000	0.825	0.750		
* RZ1-8.500	8.500	9.500	0.825	0.750		
* RZ1-9.000	9.000	10.000	0.825	0.750		
* RZ1-11.000	11.000	12.000	0.825	0.750		
* RZ1-12.000	12.000	13.000	0.825	0.750		

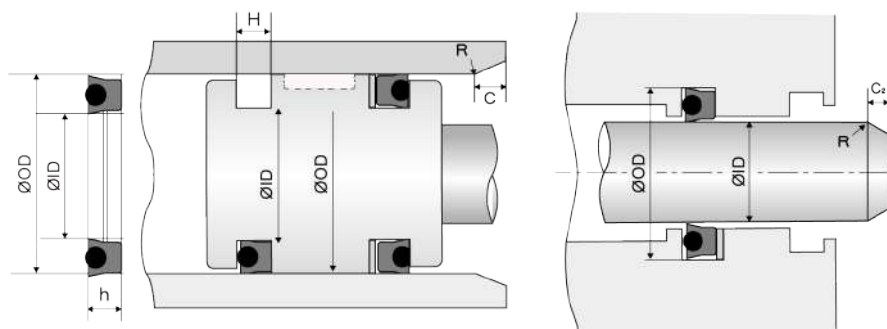
UQ1 PISTON & ROD SEAL



APPLICATION	
MATERIAL	PU+NBR
TEMP.	-31°F~230°F
PRESSURE	4200 psi
SPEED	1.6 ft/s

ITEM	ID	OD	h	H
1/8 CROSS SECTION				
* UQ1	0.125	0.375	0.125	0.138
* UQ1	0.188	0.438	0.125	0.138
UQ1	0.250	0.500	0.125	0.138
* UQ1	0.313	0.563	0.125	0.138
* UQ1	0.375	0.625	0.125	0.138
* UQ1	0.437	0.687	0.125	0.138
UQ1	0.500	0.750	0.125	0.138
* UQ1	0.563	0.813	0.125	0.138
UQ1	0.625	0.875	0.125	0.138
* UQ1	0.688	0.938	0.125	0.138
* UQ1	0.750	1.000	0.125	0.138
* UQ1	0.813	1.063	0.125	0.138
* UQ1	0.875	1.125	0.125	0.138
* UQ1	0.938	1.188	0.125	0.138
UQ1	1.000	1.250	0.125	0.138
* UQ1	1.063	1.313	0.125	0.138
* UQ1	1.125	1.375	0.125	0.138
* UQ1	1.250	1.500	0.125	0.138
* UQ1	1.375	1.625	0.125	0.138
* UQ1	1.500	1.750	0.125	0.138
* UQ1	1.625	1.875	0.125	0.138
UQ1	1.750	2.000	0.125	0.138
* UQ1	1.875	2.125	0.125	0.138
* UQ1	2.000	2.250	0.125	0.138
* UQ1	2.250	2.500	0.125	0.138
* UQ1	2.375	2.625	0.125	0.138
* UQ1	2.500	2.750	0.125	0.138
* UQ1	2.750	3.000	0.125	0.138
* UQ1	2.875	3.125	0.125	0.138
* UQ1	3.000	3.250	0.125	0.138
* UQ1	3.250	3.500	0.125	0.138
* UQ1	3.500	3.750	0.125	0.138
* UQ1	3.750	4.000	0.125	0.138
* UQ1	3.875	4.125	0.125	0.138
* UQ1	4.000	4.250	0.125	0.138
* UQ1	4.250	4.500	0.125	0.138
* UQ1	4.750	5.000	0.125	0.138
* UQ1	4.875	5.125	0.125	0.138
UQ1	4.625	5.000	0.375	0.413

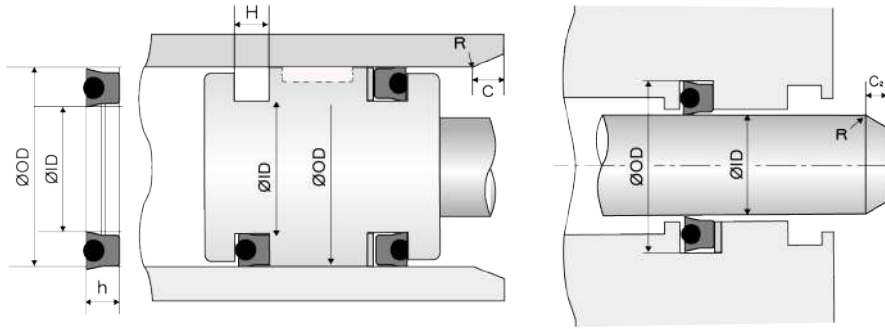
UQ1 PISTON & ROD SEAL



APPLICATION	
MATERIAL	PU+NBR
TEMP.	-31°F~230°F
PRESSURE	4200 psi
SPEED	1.6 ft/s

ITEM	ID	OD	h	H
<u>5/32 CROSS SECTION</u>				
* UQ1	1.000	1.313	0.156	0.172
* UQ1	1.188	1.500	0.156	0.172
* UQ1	1.250	1.563	0.156	0.172
* UQ1	1.375	1.688	0.156	0.172
<u>1/5 CROSS SECTION</u>				
* UQ1	0.375	0.750	0.188	0.207
* UQ1	0.500	0.875	0.188	0.207
* UQ1	0.625	1.000	0.188	0.207
* UQ1	0.750	1.125	0.188	0.207
* UQ1	0.875	1.250	0.188	0.207
* UQ1	1.000	1.375	0.188	0.207
* UQ1	1.125	1.500	0.188	0.207
* UQ1	1.188	1.563	0.188	0.207
* UQ1	1.250	1.625	0.188	0.207
* UQ1	1.375	1.750	0.188	0.207
* UQ1	1.500	1.875	0.188	0.207
* UQ1	1.625	2.000	0.188	0.207
* UQ1	1.750	2.125	0.188	0.207
* UQ1	1.875	2.250	0.188	0.207
* UQ1	2.000	2.375	0.188	0.207
* UQ1	2.125	2.500	0.188	0.207
* UQ1	2.250	2.625	0.188	0.207
* UQ1	2.375	2.750	0.188	0.207
* UQ1	2.500	2.875	0.188	0.207
UQ1	2.625	3.000	0.188	0.207
UQ1	2.750	3.125	0.188	0.207
* UQ1	2.875	3.250	0.188	0.207
* UQ1	3.000	3.375	0.188	0.207
UQ1	3.125	3.500	0.188	0.207
* UQ1	3.250	3.625	0.188	0.207
* UQ1	3.375	3.750	0.188	0.207
UQ1	3.500	3.875	0.188	0.207
UQ1	3.625	4.000	0.188	0.207
* UQ1	3.750	4.125	0.188	0.207
* UQ1	3.875	4.250	0.188	0.207
* UQ1	4.000	4.375	0.188	0.207
* UQ1	4.125	4.500	0.188	0.207
* UQ1	4.250	4.625	0.188	0.207
UQ1	4.375	4.750	0.188	0.207

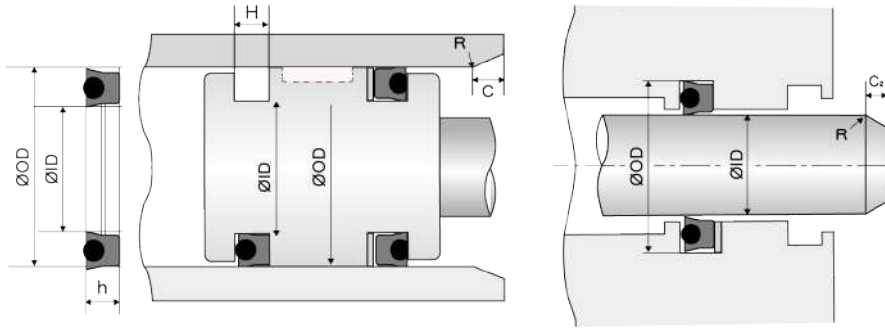
UQ1 PISTON & ROD SEAL



APPLICATION	
MATERIAL	PU+NBR
TEMP.	-31°F~230°F
PRESSURE	4200 psi
SPEED	1.6 ft/s

ITEM	ID	OD	h	H
* UQ1	4.500	4.875	0.188	0.207
* UQ1	4.625	5.000	0.188	0.207
* UQ1	4.875	5.250	0.188	0.207
* UQ1	5.125	5.500	0.188	0.207
1/4 CROSS SECTION				
* UQ1	0.313	0.812	0.250	0.275
* UQ1	0.375	0.875	0.250	0.275
UQ1	0.500	1.000	0.250	0.275
* UQ1	0.625	1.125	0.250	0.275
* UQ1	0.750	1.250	0.250	0.275
* UQ1	0.875	1.375	0.250	0.275
* UQ1	1.000	1.500	0.250	0.275
* UQ1	1.125	1.625	0.250	0.275
UQ1	1.250	1.750	0.250	0.275
* UQ1	1.375	1.875	0.250	0.275
UQ1	1.500	2.000	0.250	0.275
UQ1	1.625	2.125	0.250	0.275
* UQ1	1.750	2.250	0.250	0.275
* UQ1	1.875	2.375	0.250	0.275
* UQ1	2.000	2.500	0.250	0.275
* UQ1	2.125	2.625	0.250	0.275
* UQ1	2.250	2.750	0.250	0.275
* UQ1	2.375	2.875	0.250	0.275
* UQ1	2.500	3.000	0.250	0.275
* UQ1	2.625	3.125	0.250	0.275
UQ1	2.750	3.250	0.250	0.275
* UQ1	2.875	3.375	0.250	0.275
UQ1	3.000	3.500	0.250	0.275
* UQ1	3.250	3.750	0.250	0.275
* UQ1	3.375	3.875	0.250	0.275
UQ1	3.500	4.000	0.250	0.275
* UQ1	3.625	4.125	0.250	0.275
UQ1	3.750	4.250	0.250	0.275
* UQ1	3.875	4.375	0.250	0.275
UQ1	4.000	4.500	0.250	0.275
* UQ1	4.250	4.750	0.250	0.275
UQ1	4.375	4.875	0.250	0.275
UQ1	4.500	5.000	0.250	0.275
* UQ1	4.625	5.125	0.250	0.275
UQ1	4.750	5.250	0.250	0.275
* UQ1	4.875	5.375	0.250	0.275

UQ1 PISTON & ROD SEAL



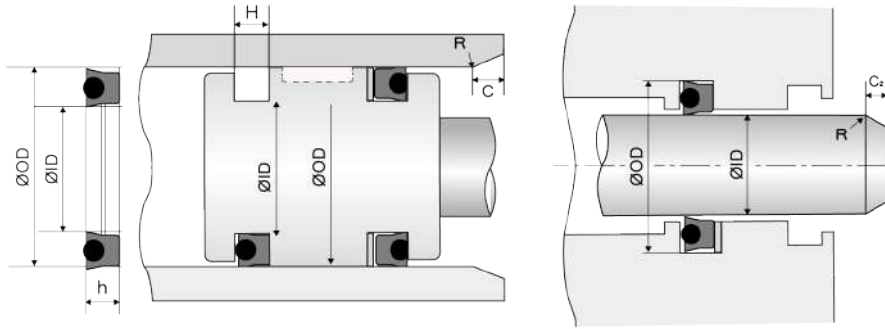
APPLICATION	
MATERIAL	PU+NBR
TEMP.	-31°F~230°F
PRESSURE	4200 psi
SPEED	1.6 ft/s

ITEM	ID	OD	h	H
* UQ1	5.000	5.500	0.250	0.275
* UQ1	5.250	5.750	0.250	0.275
UQ1	5.500	6.000	0.250	0.275
* UQ1	5.750	6.250	0.250	0.275
* UQ1	6.000	6.500	0.250	0.275
* UQ1	6.250	6.750	0.250	0.275
UQ1	6.500	7.000	0.250	0.275
* UQ1	6.750	7.250	0.250	0.275
* UQ1	7.000	7.500	0.250	0.275
* UQ1	7.250	7.750	0.250	0.275
UQ1	7.500	8.000	0.250	0.275
UQ1	8.000	8.500	0.250	0.275
* UQ1	8.250	8.750	0.250	0.275
* UQ1	8.500	9.000	0.250	0.275
UQ1	3.500	4.000	0.375	0.413

5/16 CROSS SECTION

* UQ1	0.375	1.000	0.313	0.344
* UQ1	0.687	1.312	0.313	0.344
* UQ1	1.000	1.625	0.313	0.344
* UQ1	1.125	1.750	0.313	0.344
* UQ1	1.250	1.875	0.313	0.344
* UQ1	1.375	2.000	0.313	0.344
* UQ1	1.500	2.125	0.313	0.344
* UQ1	1.625	2.250	0.313	0.344
UQ1	1.750	2.375	0.313	0.344
UQ1	1.875	2.500	0.313	0.344
* UQ1	2.000	2.625	0.313	0.344
* UQ1	2.125	2.750	0.313	0.344
* UQ1	2.250	2.875	0.313	0.344
UQ1	2.375	3.000	0.313	0.344
* UQ1	2.500	3.125	0.313	0.344
* UQ1	2.625	3.250	0.313	0.344
UQ1	2.750	3.375	0.313	0.344
* UQ1	2.875	3.500	0.313	0.344
* UQ1	3.000	3.625	0.313	0.344
* UQ1	3.125	3.750	0.313	0.344
* UQ1	3.250	3.875	0.313	0.344
* UQ1	3.375	4.000	0.313	0.344
* UQ1	3.500	4.125	0.313	0.344
UQ1	3.550	4.175	0.250	0.275
* UQ1	3.625	4.250	0.313	0.344
* UQ1	3.750	4.375	0.313	0.344

UQ1 PISTON & ROD SEAL



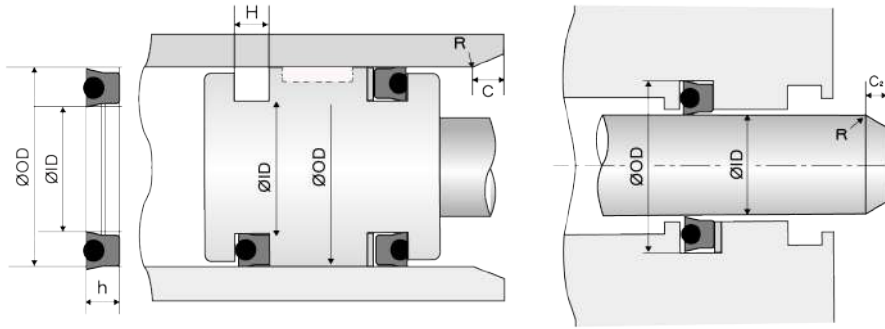
APPLICATION	
MATERIAL	PU+NBR
TEMP.	-31°F~230°F
PRESSURE	4200 psi
SPEED	1.6 ft/s

ITEM	ID	OD	h	H
* UQ1	3.875	4.500	0.313	0.344
* UQ1	4.000	4.625	0.313	0.344
* UQ1	4.125	4.750	0.313	0.344
* UQ1	4.250	4.875	0.313	0.344
* UQ1	4.375	5.000	0.313	0.344
* UQ1	4.500	5.125	0.313	0.344
* UQ1	4.750	5.375	0.313	0.344
* UQ1	5.000	5.625	0.313	0.344
* UQ1	5.250	5.875	0.313	0.344
UQ1	5.375	6.000	0.313	0.344
* UQ1	5.500	6.125	0.313	0.344
* UQ1	5.750	6.375	0.313	0.344
UQ1	6.000	6.625	0.313	0.344
* UQ1	6.250	6.875	0.313	0.344
* UQ1	6.375	7.000	0.313	0.344
* UQ1	6.500	7.125	0.313	0.344
* UQ1	6.750	7.375	0.313	0.344
* UQ1	7.000	7.625	0.313	0.344
* UQ1	7.250	7.875	0.313	0.344
* UQ1	7.375	8.000	0.313	0.344
* UQ1	7.500	8.125	0.313	0.344
* UQ1	7.750	8.375	0.313	0.344
* UQ1	8.000	8.625	0.313	0.344
* UQ1	8.250	8.875	0.313	0.344
* UQ1	8.500	9.125	0.313	0.344

3/8 CROSS SECTION

UQ1	1.000	1.750	0.375	0.413
* UQ1	1.250	2.000	0.375	0.413
* UQ1	1.375	2.125	0.375	0.413
UQ1	1.500	2.250	0.375	0.413
* UQ1	1.625	2.375	0.375	0.413
UQ1	1.750	2.500	0.375	0.413
* UQ1	2.000	2.750	0.375	0.413
* UQ1	2.125	2.875	0.375	0.413
UQ1	2.250	3.000	0.375	0.413
UQ1	2.500	3.250	0.375	0.413
* UQ1	2.750	3.500	0.375	0.413
* UQ1	3.000	3.750	0.375	0.413
UQ1	3.250	4.000	0.375	0.413
* UQ1	3.375	4.125	0.375	0.413
* UQ1	3.500	4.250	0.375	0.413
* UQ1	3.625	4.375	0.375	0.413
* UQ1	3.750	4.500	0.375	0.413

UQ1 PISTON & ROD SEAL



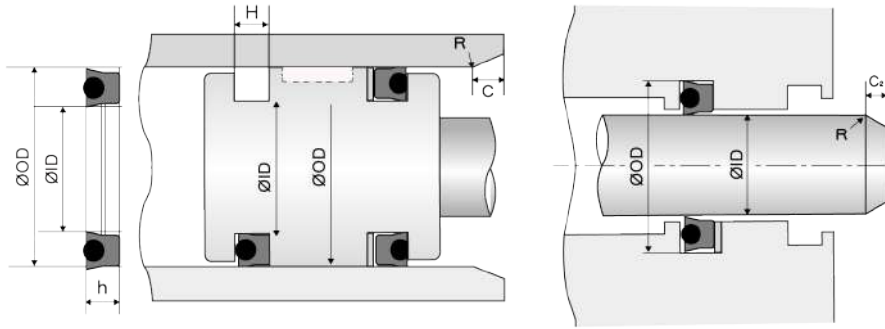
APPLICATION	
MATERIAL	PU+NBR
TEMP.	-31°F~230°F
PRESSURE	4200 psi
SPEED	1.6 ft/s

ITEM	ID	OD	h	H
* UQ1	3.875	4.625	0.375	0.413
* UQ1	4.000	4.750	0.375	0.413
* UQ1	4.125	4.875	0.375	0.413
UQ1	4.250	5.000	0.375	0.413
* UQ1	4.500	5.250	0.375	0.413
UQ1	4.750	5.500	0.375	0.413
* UQ1	5.000	5.750	0.375	0.413
* UQ1	5.250	6.000	0.375	0.413
* UQ1	5.500	6.250	0.375	0.413
* UQ1	5.625	6.375	0.375	0.413
UQ1	5.750	6.500	0.375	0.413
* UQ1	6.000	6.750	0.375	0.413
UQ1	6.250	7.000	0.375	0.413
* UQ1	6.500	7.250	0.375	0.413
UQ1	6.750	7.500	0.375	0.413
* UQ1	7.000	7.750	0.375	0.413
* UQ1	7.250	8.000	0.375	0.413
* UQ1	7.500	8.250	0.375	0.413
* UQ1	7.625	8.375	0.375	0.413
* UQ1	7.750	8.500	0.375	0.413
* UQ1	8.000	8.750	0.375	0.413
* UQ1	8.250	9.000	0.375	0.413

1/2 CROSS SECTION

* UQ1	1.500	2.500	0.500	0.550
UQ1	2.000	3.000	0.500	0.550
* UQ1	2.125	3.125	0.500	0.550
UQ1	2.500	3.500	0.500	0.550
* UQ1	2.750	3.750	0.500	0.550
* UQ1	3.000	4.000	0.500	0.550
* UQ1	3.375	4.375	0.500	0.550
UQ1	3.750	4.750	0.500	0.550
* UQ1	4.000	5.000	0.500	0.550
* UQ1	4.250	5.250	0.500	0.550
* UQ1	4.500	5.500	0.500	0.550
* UQ1	5.000	6.000	0.500	0.550
* UQ1	5.125	6.125	0.500	0.550
* UQ1	5.250	6.250	0.500	0.550
* UQ1	5.375	6.375	0.500	0.550
UQ1	6.000	7.000	0.500	0.550
* UQ1	6.250	7.250	0.500	0.550
* UQ1	6.500	7.500	0.500	0.550
UQ1	7.000	8.000	0.500	0.550

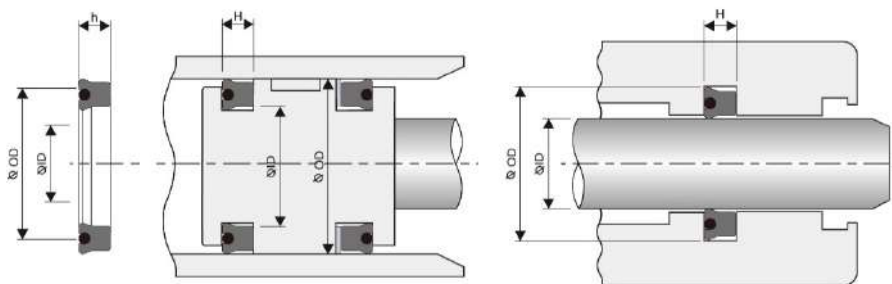
UQ1 PISTON & ROD SEAL



APPLICATION	
MATERIAL	PU+NBR
TEMP.	-31°F~230°F
PRESSURE	4200 psi
SPEED	1.6 ft/s

ITEM	ID	OD	h	H
* UQ1	7.250	8.250	0.500	0.550
* UQ1	7.375	8.375	0.500	0.550
* UQ1	7.500	8.500	0.500	0.550
UQ1	8.000	9.000	0.500	0.550
* UQ1	8.125	9.125	0.500	0.550
UQ1	8.500	9.500	0.500	0.550
UQ1	9.000	10.000	0.500	0.550
<u>5/8 CROSS SECTION</u>				
* UQ1	2.750	4.000	0.625	0.688
* UQ1	3.250	4.500	0.625	0.688
* UQ1	4.250	5.500	0.625	0.688
* UQ1	4.750	6.000	0.625	0.688
* UQ1	6.500	7.750	0.625	0.688
* UQ1	6.750	8.000	0.625	0.688
<u>3/4 CROSS SECTION</u>				
UQ1	10.50	12.000	0.750	0.825

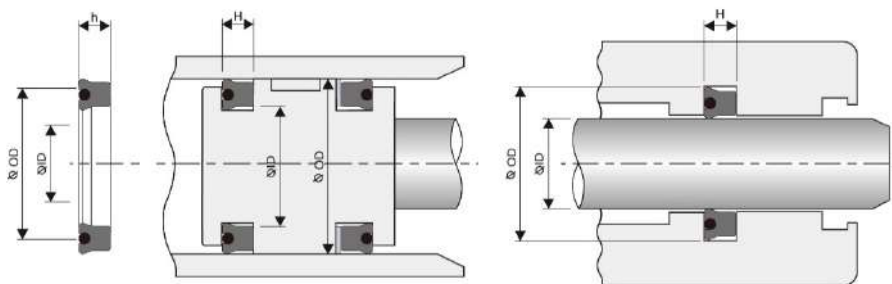
S13 PISTON & ROD SEAL



APPLICATION	
MATERIAL	PU+NBR
TEMP.	-40°F~230°F
PRESSURE	5000 psi
SPEED	1.6 ft/s

ITEM	ID	OD	h	H
1/8 CROSS SECTION				
* S13	0.250	0.5	0.125	0.138
* S13	0.313	0.563	0.125	0.138
* S13	0.375	0.625	0.125	0.138
* S13	0.438	0.688	0.125	0.138
S13	0.500	0.750	0.125	0.138
* S13	0.563	0.813	0.125	0.138
* S13	0.625	0.875	0.125	0.138
S13	0.750	1.000	0.125	0.138
* S13	0.813	1.063	0.125	0.138
* S13	0.875	1.125	0.125	0.138
* S13	0.938	1.188	0.125	0.138
S13	1.000	1.250	0.125	0.138
* S13	1.063	1.313	0.125	0.138
* S13	1.125	1.375	0.125	0.138
* S13	1.250	1.500	0.125	0.138
* S13	1.313	1.563	0.125	0.138
* S13	1.375	1.625	0.125	0.138
* S13	1.438	1.688	0.125	0.138
* S13	1.500	1.750	0.125	0.138
* S13	1.625	1.875	0.125	0.138
* S13	1.750	2.000	0.125	0.138
* S13	2.500	2.750	0.125	0.138
* S13	4.000	4.250	0.125	0.138
S13	0.750	1.000	0.187	0.206
S13	1.000	1.250	0.187	0.206
S13	1.250	1.500	0.187	0.206
S13	1.500	1.750	0.187	0.206
* S13	0.250	0.500	0.188	0.207
* S13	0.375	0.625	0.188	0.207
* S13	0.625	0.875	0.188	0.207
* S13	1.000	1.250	0.188	0.207
* S13	1.125	1.375	0.188	0.207
* S13	1.250	1.500	0.188	0.207
* S13	1.375	1.625	0.188	0.207
* S13	1.625	1.875	0.188	0.207
* S13	1.875	2.125	0.188	0.207

S13 PISTON & ROD SEAL



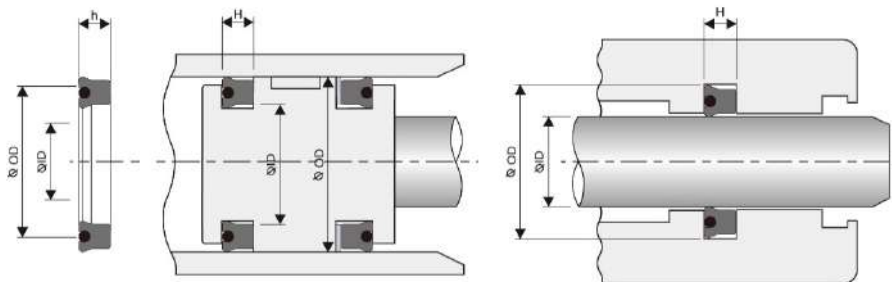
APPLICATION	
MATERIAL	PU+NBR
TEMP.	-40°F~230°F
PRESSURE	5000 psi
SPEED	1.6 ft/s

ITEM	ID	OD	h	H
* S13	2.000	2.250	0.188	0.207
* S13	0.125	0.375	0.25	0.275
* S13	0.188	0.438	0.25	0.275
* S13	0.250	0.500	0.25	0.275
* S13	0.313	0.563	0.25	0.275
* S13	0.375	0.625	0.25	0.275
* S13	0.438	0.688	0.25	0.275
* S13	0.500	0.750	0.25	0.275
S13	0.625	0.875	0.25	0.275
S13	0.750	1.000	0.25	0.275
* S13	0.813	1.063	0.25	0.275
S13	0.875	1.125	0.25	0.275
* S13	0.938	1.188	0.25	0.275
S13	1.000	1.250	0.25	0.275
* S13	1.063	1.313	0.25	0.275
S13	1.125	1.375	0.25	0.275
* S13	1.188	1.438	0.25	0.275
S13	1.250	1.500	0.25	0.275
* S13	1.375	1.625	0.25	0.275
* S13	1.438	1.688	0.25	0.275
S13	1.500	1.750	0.25	0.275
* S13	1.625	1.875	0.25	0.275
* S13	1.750	2.000	0.25	0.275
* S13	1.875	2.125	0.25	0.275
* S13	2.000	2.250	0.25	0.275
* S13	2.125	2.375	0.25	0.275
S13	2.250	2.500	0.25	0.275
* S13	2.500	2.750	0.25	0.275
* S13	2.875	3.125	0.25	0.275
* S13	3.875	4.125	0.25	0.275
* S13	4.875	5.125	0.25	0.275
* S13	1.125	1.375	0.313	0.344

5/32 CROSS SECTION

* S13	1.000	1.313	0.156	0.172
* S13	1.375	1.688	0.156	0.172

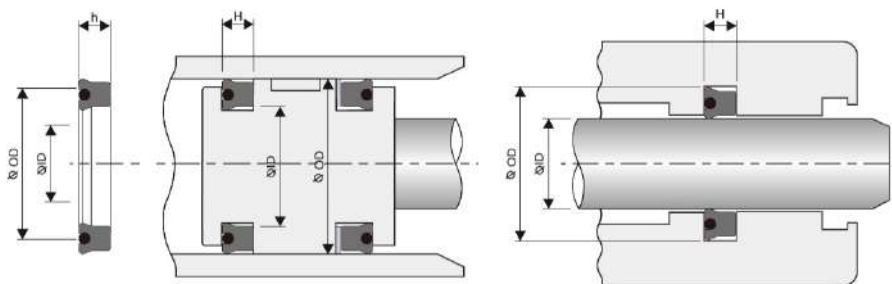
S13 PISTON & ROD SEAL



APPLICATION	
MATERIAL	PU+NBR
TEMP.	-40°F~230°F
PRESSURE	5000 psi
SPEED	1.6 ft/s

ITEM	ID	OD	h	H
3/16 CROSS SECTION				
* S13	0.375	0.750	0.156	0.172
S13	1.625	2.000	0.187	0.206
* S13	1.750	2.125	0.187	0.206
* S13	0.188	0.563	0.188	0.207
* S13	0.250	0.625	0.188	0.207
* S13	0.313	0.688	0.188	0.207
* S13	0.625	1.000	0.188	0.207
* S13	0.750	1.125	0.188	0.207
* S13	0.875	1.250	0.188	0.207
* S13	1.000	1.375	0.188	0.207
* S13	1.125	1.500	0.188	0.207
* S13	1.188	1.563	0.188	0.207
* S13	1.250	1.625	0.188	0.207
* S13	1.375	1.750	0.188	0.207
* S13	1.500	1.875	0.188	0.207
* S13	1.625	2.000	0.188	0.207
* S13	1.750	2.125	0.188	0.207
* S13	1.875	2.250	0.188	0.207
* S13	2.000	2.375	0.188	0.207
S13	2.125	2.500	0.188	0.207
* S13	2.250	2.625	0.188	0.207
* S13	2.375	2.750	0.188	0.207
* S13	2.500	2.875	0.188	0.207
* S13	2.625	3.000	0.188	0.207
* S13	2.750	3.125	0.188	0.207
* S13	3.000	3.375	0.188	0.207
* S13	3.125	3.500	0.188	0.207
* S13	3.375	3.750	0.188	0.207
* S13	3.500	3.875	0.188	0.207
* S13	3.625	4.000	0.188	0.207
* S13	3.750	4.125	0.188	0.207
* S13	4.000	4.375	0.188	0.207
* S13	1.750	2.125	0.23	0.25
S13	2.000	2.375	0.23	0.25
* S13	0.500	0.875	0.25	0.275
* S13	0.750	1.125	0.25	0.275

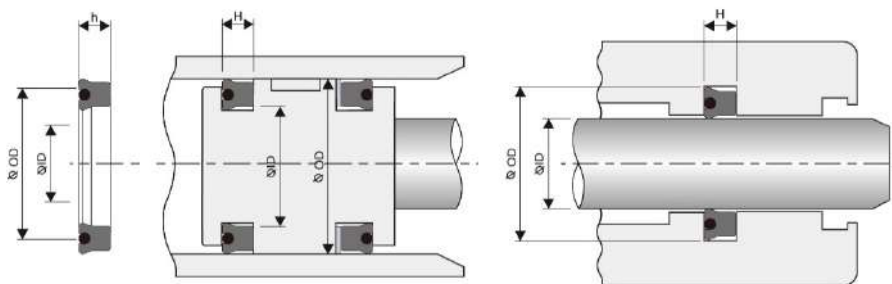
S13 PISTON & ROD SEAL



APPLICATION	
MATERIAL	PU+NBR
TEMP.	-40°F~230°F
PRESSURE	5000 psi
SPEED	1.6 ft/s

ITEM	ID	OD	h	H
S13	1.000	1.375	0.25	0.275
S13	1.125	1.500	0.25	0.275
S13	1.250	1.625	0.25	0.275
* S13	1.375	1.750	0.25	0.275
S13	1.500	1.875	0.25	0.275
S13	1.625	2.000	0.25	0.275
* S13	1.750	2.125	0.25	0.275
S13	1.875	2.250	0.25	0.275
* S13	2.000	2.375	0.25	0.275
S13	2.125	2.500	0.25	0.275
* S13	2.500	2.875	0.25	0.275
* S13	2.625	3.000	0.25	0.275
* S13	2.875	3.250	0.25	0.275
* S13	3.000	3.375	0.25	0.275
* S13	3.125	3.500	0.25	0.275
* S13	3.375	3.750	0.25	0.275
* S13	3.625	4.000	0.25	0.275
* S13	3.875	4.250	0.25	0.275
* S13	4.000	4.375	0.25	0.275
* S13	4.125	4.500	0.25	0.275
* S13	4.625	5.000	0.25	0.275
* S13	2.000	2.375	0.266	0.292
* S13	2.375	2.750	0.28	0.308
* S13	2.875	3.250	0.28	0.308
* S13	3.375	3.750	0.28	0.308
* S13	3.875	4.250	0.28	0.308
* S13	4.375	4.750	0.28	0.308
* S13	4.875	5.250	0.28	0.308
S13	1.875	2.250	0.28	0.31
* S13	1.000	1.375	0.281	0.31
* S13	0.500	0.875	0.313	0.344
* S13	0.625	1.000	0.313	0.344
S13	0.750	1.125	0.313	0.344
* S13	0.875	1.250	0.313	0.344
* S13	0.938	1.313	0.313	0.344
S13	1.000	1.375	0.313	0.344
* S13	1.063	1.438	0.313	0.344

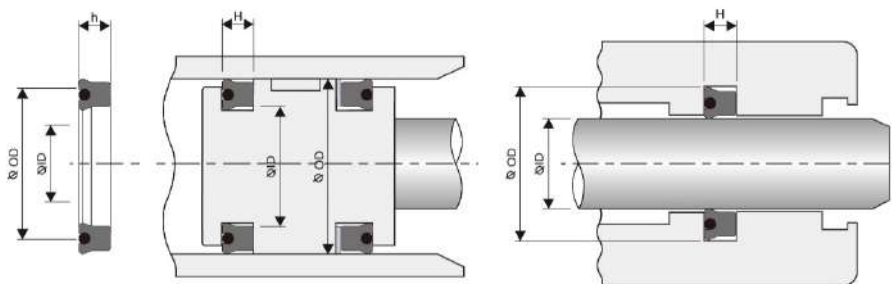
S13 PISTON & ROD SEAL



APPLICATION	
MATERIAL	PU+NBR
TEMP.	-40°F~230°F
PRESSURE	5000 psi
SPEED	1.6 ft/s

ITEM	ID	OD	h	H
S13	1.125	1.500	0.313	0.344
* S13	1.188	1.563	0.313	0.344
* S13	1.250	1.625	0.313	0.344
* S13	1.313	1.688	0.313	0.344
S13	1.375	1.750	0.313	0.344
* S13	1.500	1.875	0.313	0.344
S13	1.625	2.000	0.313	0.344
* S13	1.750	2.125	0.313	0.344
S13	2.000	2.375	0.313	0.344
* S13	2.250	2.625	0.313	0.344
* S13	2.625	3.000	0.313	0.344
* S13	2.750	3.125	0.313	0.344
* S13	3.000	3.375	0.313	0.344
* S13	3.250	3.625	0.313	0.344
* S13	3.625	4.000	0.313	0.344
* S13	3.750	4.125	0.313	0.344
* S13	4.000	4.375	0.313	0.344
* S13	4.250	4.625	0.313	0.344
* S13	4.625	5.000	0.313	0.344
* S13	0.750	1.125	0.375	0.413
S13	1.250	1.625	0.375	0.413
S13	1.375	1.750	0.375	0.413
S13	1.500	1.875	0.375	0.413
S13	1.625	2.000	0.375	0.413
S13	1.750	2.125	0.375	0.413
S13	1.875	2.250	0.375	0.413
S13	2.000	2.375	0.375	0.413
S13	2.125	2.500	0.375	0.413
S13	2.250	2.625	0.375	0.413
* S13	2.375	2.750	0.375	0.413
S13	2.500	2.875	0.375	0.413
* S13	2.500	3.125	0.375	0.413
S13	2.625	3.000	0.375	0.413
* S13	2.750	3.125	0.375	0.413
* S13	2.875	3.250	0.375	0.413
* S13	3.000	3.375	0.375	0.413

S13 PISTON & ROD SEAL



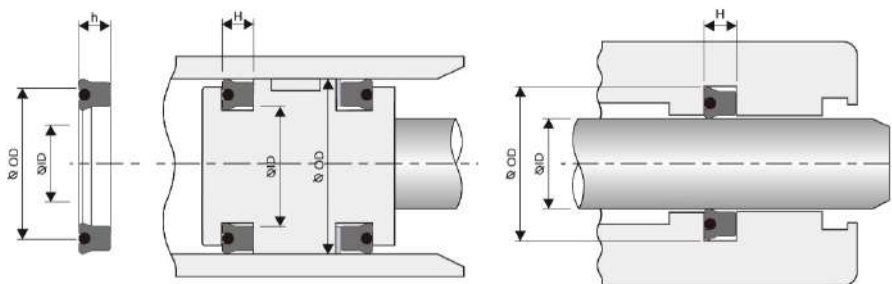
APPLICATION	
MATERIAL	PU+NBR
TEMP.	-40°F~230°F
PRESSURE	5000 psi
SPEED	1.6 ft/s

ITEM	ID	OD	h	H
* S13	3.125	3.500	0.375	0.413
* S13	3.250	3.625	0.375	0.413
* S13	3.375	3.750	0.375	0.413
* S13	3.500	3.875	0.375	0.413
* S13	3.625	4.000	0.375	0.413
* S13	3.750	4.125	0.375	0.413
* S13	3.875	4.250	0.375	0.413
S13	4.000	4.375	0.375	0.413
* S13	4.125	4.500	0.375	0.413
* S13	4.250	4.625	0.375	0.413
S13	4.375	4.750	0.375	0.413
* S13	4.500	4.875	0.375	0.413
* S13	4.625	5.000	0.375	0.413
* S13	4.750	5.125	0.375	0.413
* S13	4.875	5.250	0.375	0.413
* S13	5.000	5.375	0.375	0.413
* S13	5.500	5.875	0.375	0.413
* S13	1.500	1.875	0.406	0.447

1/4 CROSS SECTION

* S13	0.750	1.250	0.25	0.275
* S13	0.875	1.375	0.25	0.275
* S13	1.000	1.500	0.25	0.275
* S13	1.125	1.625	0.25	0.275
* S13	1.250	1.750	0.25	0.275
* S13	1.375	1.875	0.25	0.275
* S13	1.500	2.000	0.25	0.275
* S13	1.750	2.250	0.25	0.275
* S13	2.000	2.500	0.25	0.275
* S13	2.125	2.625	0.25	0.275
* S13	2.500	3.000	0.25	0.275
* S13	2.750	3.250	0.25	0.275
* S13	3.000	3.500	0.25	0.275
* S13	3.125	3.625	0.25	0.275
* S13	3.375	3.875	0.25	0.275
* S13	3.500	4.000	0.25	0.275
* S13	3.750	4.250	0.25	0.275

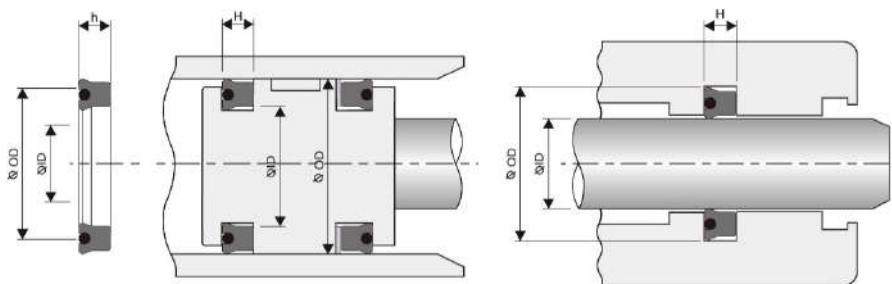
S13 PISTON & ROD SEAL



APPLICATION	
MATERIAL	PU+NBR
TEMP.	-40°F~230°F
PRESSURE	5000 psi
SPEED	1.6 ft/s

ITEM	ID	OD	h	H
* S13	4.000	4.500	0.25	0.275
* S13	4.125	4.625	0.25	0.275
* S13	4.250	4.750	0.25	0.275
* S13	4.375	4.875	0.25	0.275
S13	4.500	5.000	0.25	0.275
* S13	4.625	5.125	0.25	0.275
* S13	4.750	5.250	0.25	0.275
* S13	5.000	5.500	0.25	0.275
* S13	6.500	7.000	0.25	0.275
* S13	7.500	8.000	0.25	0.275
* S13	8.000	8.500	0.28	0.275
* S13	0.625	1.125	0.313	0.344
* S13	0.875	1.375	0.313	0.344
* S13	1.500	2.000	0.313	0.344
* S13	2.500	3.000	0.313	0.344
* S13	3.500	4.000	0.313	0.344
* S13	4.500	5.000	0.313	0.344
* S13	0.438	0.938	0.375	0.413
* S13	0.500	1.000	0.375	0.413
* S13	0.625	1.125	0.375	0.413
* S13	0.750	1.250	0.375	0.413
* S13	0.875	1.375	0.375	0.413
S13	1.000	1.500	0.375	0.413
* S13	1.125	1.625	0.375	0.413
* S13	1.250	1.750	0.375	0.413
* S13	1.313	1.813	0.375	0.413
* S13	1.375	1.875	0.375	0.413
S13	1.500	2.000	0.375	0.413
* S13	1.625	2.125	0.375	0.413
* S13	1.750	2.250	0.375	0.413
* S13	1.875	2.375	0.375	0.413
S13	2.000	2.500	0.375	0.413
S13	2.125	2.625	0.375	0.413
S13	2.250	2.750	0.375	0.413
S13	2.375	2.875	0.375	0.413
S13	2.500	3.000	0.375	0.413
* S13	2.625	3.125	0.375	0.413

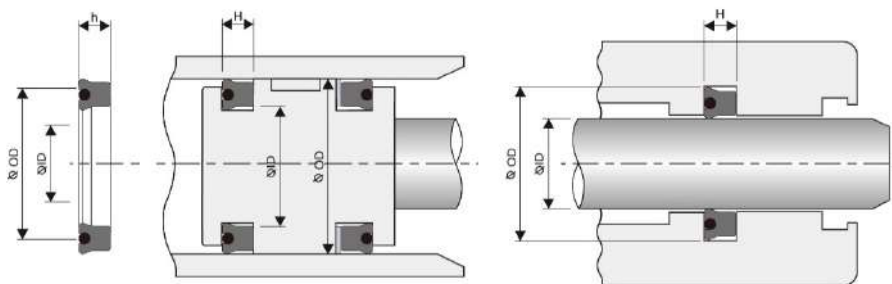
S13 PISTON & ROD SEAL



APPLICATION	
MATERIAL	PU+NBR
TEMP.	-40°F~230°F
PRESSURE	5000 psi
SPEED	1.6 ft/s

ITEM	ID	OD	h	H
S13	2.750	3.250	0.375	0.413
* S13	2.875	3.375	0.375	0.413
S13	3.000	3.500	0.375	0.413
* S13	3.125	3.625	0.375	0.413
S13	3.250	3.750	0.375	0.413
* S13	3.375	3.875	0.375	0.413
S13	3.500	4.000	0.375	0.413
* S13	3.625	4.125	0.375	0.413
S13	3.750	4.250	0.375	0.413
* S13	3.875	4.375	0.375	0.413
S13	4.000	4.500	0.375	0.413
* S13	4.125	4.625	0.375	0.413
* S13	4.250	4.750	0.375	0.413
S13	4.500	5.000	0.375	0.413
* S13	4.750	5.250	0.375	0.413
* S13	4.875	5.375	0.375	0.413
* S13	5.000	5.500	0.375	0.413
* S13	5.500	6.000	0.375	0.413
* S13	5.750	6.250	0.375	0.413
* S13	6.000	6.500	0.375	0.413
S13	6.500	7.000	0.375	0.413
* S13	6.750	7.250	0.375	0.413
* S13	7.000	7.500	0.375	0.413
* S13	7.500	8.000	0.375	0.413
* S13	8.000	8.500	0.375	0.413
* S13	8.500	9.000	0.375	0.413
* S13	3.000	3.500	0.5	0.55
* S13	4.000	4.500	0.5	0.55
* S13	4.500	5.000	0.5	0.55
* S13	4.750	5.250	0.5	0.55
* S13	5.000	5.500	0.5	0.55
* S13	5.500	6.000	0.5	0.55
* S13	6.000	6.500	0.5	0.55
* S13	6.500	7.000	0.5	0.55
* S13	6.750	7.250	0.5	0.55
* S13	7.000	7.500	0.5	0.55
* S13	7.500	8.000	0.5	0.55

S13 PISTON & ROD SEAL



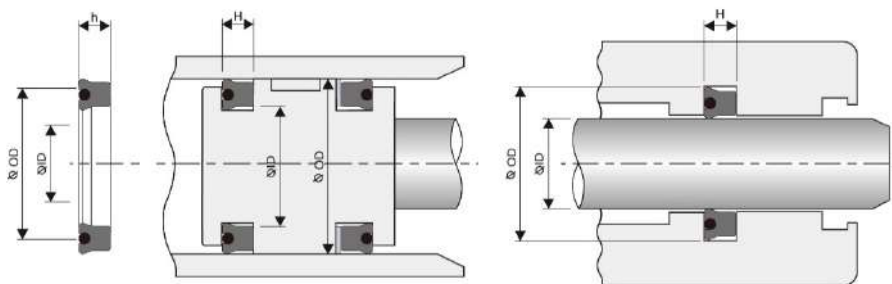
APPLICATION	
MATERIAL	PU+NBR
TEMP.	-40°F~230°F
PRESSURE	5000 psi
SPEED	1.6 ft/s

ITEM	ID	OD	h	H
* S13	8.500	9.000	0.5	0.55
* S13	2.375	2.875	0.563	0.619
* S13	3.000	3.500	0.563	0.619
* S13	3.375	3.875	0.563	0.619
* S13	3.750	4.250	0.563	0.619
S13	4.000	4.500	0.563	0.619
* S13	4.250	4.750	0.563	0.619
* S13	4.375	4.875	0.563	0.619
* S13	4.500	5.000	0.563	0.619
* S13	4.750	5.250	0.562	0.619
* S13	4.875	5.375	0.563	0.619
* S13	5.000	5.500	0.563	0.619
S13	5.250	5.750	0.563	0.619
* S13	5.500	6.000	0.563	0.619
* S13	5.625	6.125	0.563	0.619
* S13	5.750	6.250	0.563	0.619
S13	6.000	6.500	0.563	0.619
* S13	6.250	6.750	0.563	0.619
* S13	6.500	7.000	0.563	0.619
* S13	6.750	7.250	0.563	0.619
* S13	7.000	7.500	0.563	0.619
* S13	7.250	7.750	0.563	0.619
S13	7.500	8.000	0.563	0.619
S13	8.000	8.500	0.563	0.619
S13	8.500	9.000	0.563	0.619
* S13	9.500	10.000	0.563	0.619
S13	10.000	10.500	0.563	0.619

5/16 CROSS SECTION

* S13	1.125	1.750	0.313	0.344
* S13	1.250	1.875	0.313	0.344
* S13	1.375	2.000	0.313	0.344
* S13	1.500	2.125	0.313	0.344
* S13	2.125	2.750	0.313	0.344
* S13	2.250	2.875	0.313	0.344
* S13	2.375	3.000	0.313	0.344
* S13	3.000	3.625	0.313	0.344

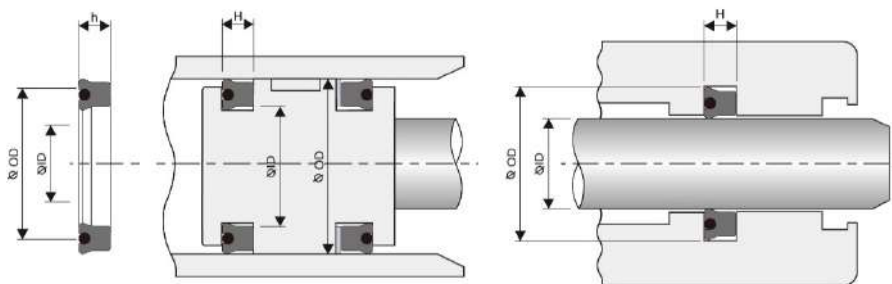
S13 PISTON & ROD SEAL



APPLICATION	
MATERIAL	PU+NBR
TEMP.	-40°F~230°F
PRESSURE	5000 psi
SPEED	1.6 ft/s

ITEM	ID	OD	h	H
* S13	3.125	3.750	0.313	0.344
* S13	3.250	3.875	0.313	0.344
* S13	3.375	4.000	0.313	0.344
* S13	4.250	4.875	0.313	0.344
* S13	4.375	5.000	0.313	0.344
* S13	5.375	6.000	0.313	0.344
* S13	5.500	6.125	0.313	0.344
* S13	1.000	1.625	0.375	0.413
* S13	1.500	2.125	0.375	0.413
* S13	1.750	2.375	0.375	0.413
S13	2.500	3.125	0.375	0.413
* S13	2.750	3.375	0.375	0.413
* S13	3.000	3.625	0.375	0.413
* S13	3.500	4.125	0.375	0.413
S13	3.625	4.250	0.375	0.413
* S13	3.750	4.375	0.375	0.413
* S13	4.500	5.125	0.375	0.413
* S13	5.375	6.000	0.375	0.413
* S13	1.000	1.625	0.5	0.55
* S13	1.125	1.750	0.5	0.55
* S13	1.250	1.875	0.5	0.55
* S13	1.375	2.000	0.5	0.55
* S13	1.500	2.125	0.5	0.55
S13	1.750	2.375	0.5	0.55
* S13	1.875	2.500	0.5	0.55
* S13	2.000	2.625	0.5	0.55
* S13	2.125	2.750	0.5	0.55
S13	2.250	2.875	0.5	0.55
* S13	2.375	3.000	0.5	0.55
S13	2.500	3.125	0.5	0.55
* S13	2.625	3.250	0.5	0.55
* S13	2.750	3.375	0.5	0.55
* S13	2.875	3.500	0.5	0.55
* S13	3.000	3.625	0.5	0.55
* S13	3.125	3.750	0.5	0.55
S13	3.250	3.875	0.5	0.55
* S13	3.375	4.000	0.5	0.55

S13 PISTON & ROD SEAL



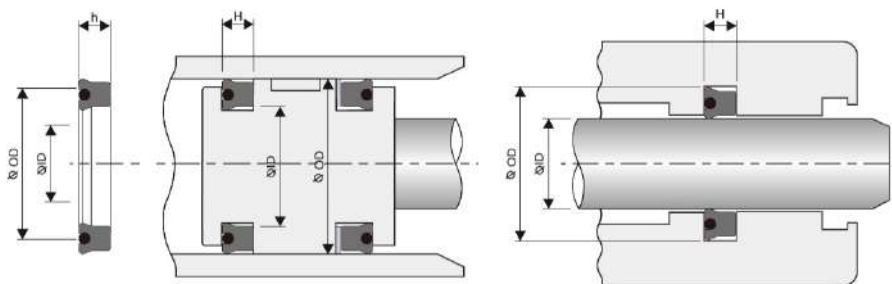
APPLICATION	
MATERIAL	PU+NBR
TEMP.	-40°F~230°F
PRESSURE	5000 psi
SPEED	1.6 ft/s

ITEM	ID	OD	h	H
* S13	3.500	4.125	0.5	0.55
* S13	3.750	4.375	0.5	0.55
* S13	3.875	4.500	0.5	0.55
* S13	4.000	4.625	0.5	0.55
* S13	4.125	4.750	0.5	0.55
* S13	4.250	4.875	0.5	0.55
* S13	4.375	5.000	0.5	0.55
* S13	4.750	5.375	0.5	0.55
* S13	7.375	8.000	0.5	0.55
* S13	8.000	8.625	0.5	0.55
* S13	2.000	2.625	0.563	0.619
* S13	4.000	4.625	0.563	0.619
* S13	4.250	4.875	0.563	0.619
* S13	4.125	4.750	0.625	0.668
* S13	4.500	5.125	0.625	0.668
* S13	5.000	5.625	0.625	0.668
* S13	5.375	6.000	0.625	0.668
* S13	6.375	7.000	0.625	0.668
* S13	6.750	7.375	0.625	0.668
S13	7.250	7.875	0.625	0.668
* S13	8.000	8.625	0.625	0.668
* S13	8.500	9.125	0.625	0.668
* S13	2.125	2.750	0.625	0.688
* S13	4.375	5.000	0.625	0.688
* S13	4.750	5.375	0.625	0.688
* S13	5.250	5.875	0.625	0.688
* S13	5.500	6.125	0.625	0.688
* S13	6.000	6.625	0.625	0.688
* S13	6.500	7.125	0.625	0.688
* S13	7.000	7.625	0.625	0.688
* S13	7.375	8.000	0.625	0.688

3/8 CROSS SECTION

* S13	1.250	2.000	0.375	0.413
* S13	1.625	2.375	0.375	0.413
* S13	2.000	2.750	0.375	0.413
* S13	2.250	3.000	0.375	0.413
* S13	2.500	3.250	0.375	0.413

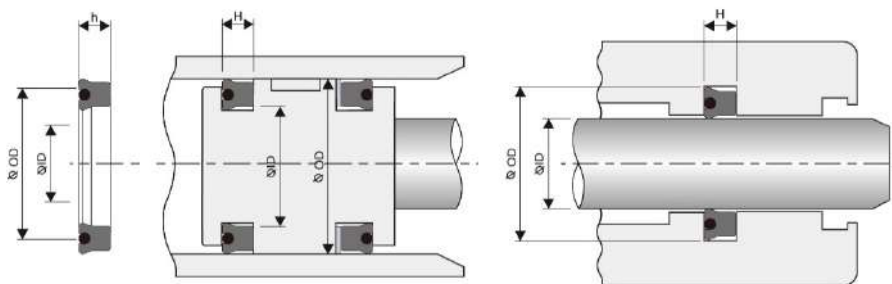
S13 PISTON & ROD SEAL



APPLICATION	
MATERIAL	PU+NBR
TEMP.	-40°F~230°F
PRESSURE	5000 psi
SPEED	1.6 ft/s

ITEM	ID	OD	h	H
* S13	3.000	3.750	0.375	0.413
* S13	3.125	3.875	0.375	0.413
* S13	3.750	4.500	0.375	0.413
* S13	4.250	5.000	0.375	0.413
* S13	4.500	5.250	0.375	0.413
* S13	4.750	5.500	0.375	0.413
* S13	5.000	5.750	0.375	0.413
* S13	5.250	6.000	0.375	0.413
* S13	5.500	6.250	0.375	0.413
* S13	6.000	6.750	0.375	0.413
* S13	6.500	7.250	0.375	0.413
* S13	6.750	7.500	0.375	0.413
* S13	7.250	8.000	0.375	0.413
* S13	9.000	9.750	0.375	0.413
* S13	1.250	2.000	0.5	0.550
* S13	1.500	2.250	0.5	0.550
* S13	1.750	2.500	0.5	0.550
* S13	2.000	2.750	0.5	0.550
* S13	2.250	3.000	0.5	0.550
* S13	2.500	3.250	0.5	0.550
* S13	2.750	3.500	0.5	0.550
* S13	3.000	3.750	0.5	0.550
* S13	3.250	4.000	0.5	0.550
* S13	3.500	4.250	0.5	0.550
* S13	3.750	4.500	0.5	0.550
* S13	4.000	4.750	0.5	0.550
* S13	4.250	5.000	0.5	0.550
* S13	4.500	5.250	0.5	0.550
* S13	4.750	5.500	0.5	0.550
* S13	5.000	5.750	0.5	0.550
* S13	5.250	6.000	0.5	0.550
* S13	5.500	6.250	0.5	0.550
* S13	5.750	6.500	0.5	0.550
* S13	6.000	6.750	0.5	0.550
* S13	6.250	7.000	0.5	0.550
* S13	6.500	7.250	0.5	0.550
* S13	6.750	7.500	0.5	0.550

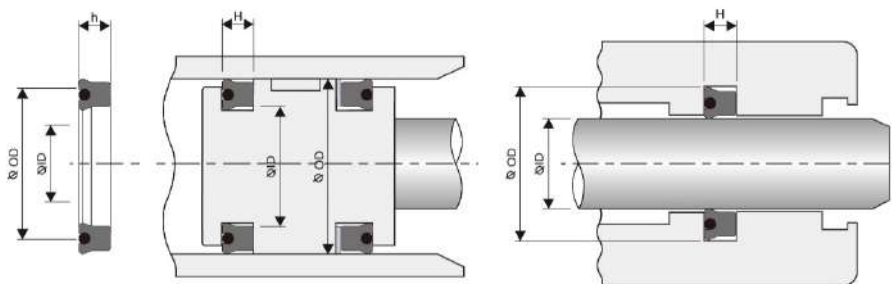
S13 PISTON & ROD SEAL



APPLICATION	
MATERIAL	PU+NBR
TEMP.	-40°F~230°F
PRESSURE	5000 psi
SPEED	1.6 ft/s

ITEM	ID	OD	h	H
* S13	7.000	7.750	0.5	0.550
* S13	7.250	8.000	0.5	0.550
* S13	7.500	8.250	0.5	0.550
* S13	7.750	8.500	0.5	0.550
* S13	8.750	9.500	0.5	0.550
* S13	10.250	11.000	0.5	0.550
* S13	1.375	2.125	0.625	0.688
* S13	1.500	2.250	0.625	0.688
* S13	1.750	2.500	0.625	0.688
S13	2.000	2.750	0.625	0.688
* S13	2.250	3.000	0.625	0.688
* S13	2.375	3.125	0.625	0.688
* S13	2.500	3.250	0.625	0.688
* S13	2.625	3.375	0.625	0.688
* S13	2.750	3.500	0.625	0.688
S13	3.000	3.750	0.625	0.688
* S13	3.125	3.875	0.625	0.688
* S13	3.250	4.000	0.625	0.688
* S13	3.375	4.125	0.625	0.688
S13	3.500	4.250	0.625	0.688
* S13	3.625	4.375	0.625	0.688
* S13	3.750	4.500	0.625	0.688
S13	4.000	4.750	0.625	0.688
* S13	4.250	5.000	0.625	0.688
* S13	4.500	5.250	0.625	0.688
* S13	4.750	5.500	0.625	0.688
* S13	5.000	5.750	0.625	0.688
S13	5.250	6.000	0.625	0.688
* S13	5.500	6.250	0.625	0.688
* S13	5.750	6.500	0.625	0.688
* S13	5.875	6.625	0.625	0.688
S13	6.000	6.750	0.625	0.688
* S13	6.250	7.000	0.625	0.688
* S13	6.500	7.250	0.625	0.688
* S13	6.750	7.500	0.625	0.688
S13	7.000	7.750	0.625	0.688
* S13	7.250	8.000	0.625	0.688

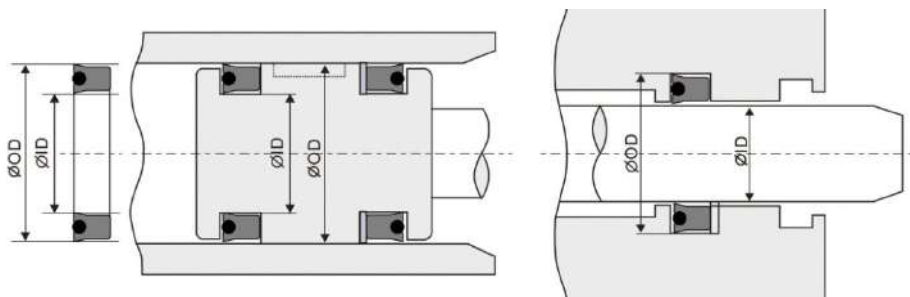
S13 PISTON & ROD SEAL



APPLICATION	
MATERIAL	PU+NBR
TEMP.	-40°F~230°F
PRESSURE	5000 psi
SPEED	1.6 ft/s

ITEM	ID	OD	h	H
S13	7.500	8.250	0.625	0.688
* S13	7.750	8.500	0.625	0.688
* S13	8.000	8.750	0.625	0.688
* S13	8.250	9.000	0.625	0.688
* S13	9.500	10.250	0.625	0.688
* S13	5.250	6.000	0.75	0.825
* S13	7.250	8.000	0.75	0.825
1/2 CROSS SECTION				
* S13	2.000	3.000	0.5	0.550
* S13	2.375	3.375	0.5	0.550
* S13	4.000	5.000	0.5	0.550
* S13	4.500	5.500	0.5	0.550
* S13	5.250	6.250	0.5	0.550
* S13	1.750	2.750	0.75	0.825
* S13	2.000	3.000	0.75	0.825
* S13	2.500	3.500	0.75	0.825
* S13	3.000	4.000	0.75	0.825
* S13	4.000	5.000	0.75	0.825
* S13	4.250	5.250	0.75	0.825
* S13	4.500	5.500	0.75	0.825
* S13	4.750	5.750	0.75	0.825
* S13	5.000	6.000	0.75	0.825
* S13	5.250	6.250	0.75	0.825
S13	5.750	6.750	0.75	0.825
* S13	6.000	7.000	0.75	0.825
* S13	6.250	7.250	0.75	0.825
S13	7.000	8.000	0.75	0.825
* S13	7.250	8.250	0.75	0.825
* S13	7.750	8.750	0.75	0.825
* S13	8.000	9.000	0.75	0.825
* S13	12.000	13.000	0.75	0.825
S13	9.000	10.000	0.75	0.825
3/4 CROSS SECTION				
* S13	3.500	5.000	0.75	0.825

DP1 PISTON & ROD SEAL



APPLICATION	
MATERIAL	PU+NBR
TEMP.	-40°F~230°F
PRESSURE	5000 psi
SPEED	1.6 ft/s

ITEM	ID	OD	H
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1/8 CROSS SECTION

* DP1-0.500	0.500	0.750	0.275
* DP1-0.625	0.625	0.875	0.275
* DP1-0.750	0.750	1.000	0.275
* DP1-0.875	0.875	1.125	0.275
* DP1-1.000	1.000	1.250	0.275
* DP1-1.375	1.375	1.625	0.275

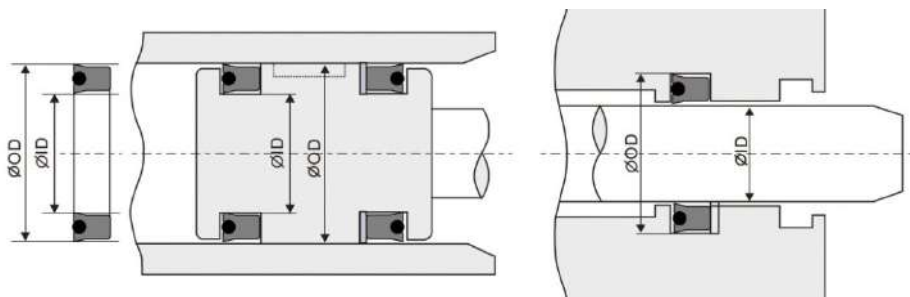
3/16 CROSS SECTION

* DP1-0.625	0.625	1.000	0.343
* DP1-1.000	1.000	1.375	0.343
* DP1-1.125	1.125	1.500	0.343
* DP1-1.250	1.250	1.625	0.343
* DP1-1.375	1.375	1.750	0.343
* DP1-1.500	1.500	1.875	0.413
* DP1-1.625	1.625	2.000	0.413
* DP1-1.750	1.750	2.125	0.413
* DP1-1.875	1.875	2.250	0.413
* DP1-2.000	2.000	2.375	0.413
* DP1-2.250	2.250	2.625	0.413
* DP1-2.500	2.500	2.875	0.413
* DP1-2.750	2.750	3.125	0.413
* DP1-3.000	3.000	3.375	0.413
* DP1-3.125	3.125	3.500	0.413
* DP1-3.500	3.500	3.875	0.413
* DP1-4.125	4.125	4.500	0.413

1/4 CROSS SECTION

* DP1-0.625	0.625	1.125	0.413
* DP1-0.750	0.750	1.250	0.413
* DP1-1.000	1.000	1.500	0.413
* DP1-1.125	1.125	1.625	0.413
* DP1-1.250	1.250	1.750	0.413

DP1 PISTON & ROD SEAL



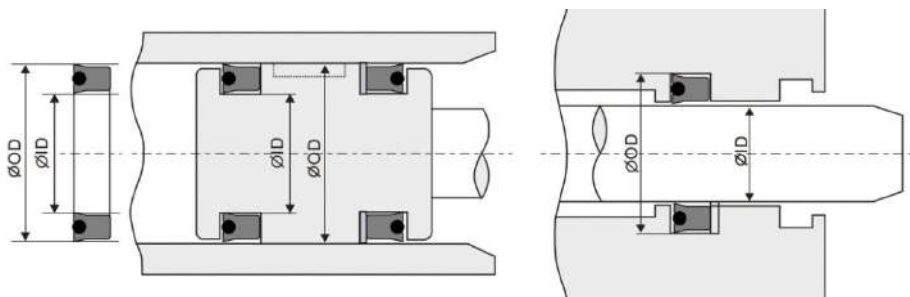
APPLICATION	
MATERIAL	PU+NBR
TEMP.	-40°F~230°F
PRESSURE	5000 psi
SPEED	1.6 ft/s

ITEM	ID	OD	H
* DP1-1.375	1.375	1.875	0.413
* DP1-1.500	1.500	2.000	0.413
* DP1-1.750	1.750	2.250	0.413
* DP1-2.000	2.000	2.500	0.413
* DP1-2.125	2.125	2.625	0.413
* DP1-2.250	2.250	2.750	0.413
* DP1-2.500	2.500	3.000	0.413
* DP1-2.625	2.625	3.125	0.413
* DP1-2.750	2.750	3.250	0.413
* DP1-3.000	3.000	3.500	0.413
* DP1-3.250	3.250	3.750	0.413
* DP1-3.375	3.375	3.875	0.413
* DP1-3.500	3.500	4.000	0.413
* DP1-3.750	3.750	4.250	0.413
* DP1-4.000	4.000	4.500	0.413
* DP1-4.250	4.250	4.750	0.618
* DP1-4.500	4.500	5.000	0.618
* DP1-4.750	4.750	5.250	0.618
* DP1-4.875	4.875	5.375	0.618
* DP1-5.000	5.000	5.500	0.413
* DP1-5.000	5.000	5.500	0.618
* DP1-5.500	5.500	6.000	0.413
* DP1-5.750	5.750	6.250	0.618
* DP1-6.000	6.000	6.500	0.618
* DP1-6.500	6.500	7.000	0.618
* DP1-7.000	7.000	7.500	0.618
* DP1-7.500	7.500	8.000	0.618

5/16 CROSS SECTION

* DP1-1.375	1.375	2.000	0.550
* DP1-1.750	1.750	2.375	0.550
* DP1-2.125	2.125	2.750	0.550
* DP1-2.625	2.625	3.250	0.550
* DP1-3.000	3.000	3.625	0.550

DP1 PISTON & ROD SEAL



APPLICATION	
MATERIAL	PU+NBR
TEMP.	-40°F~230°F
PRESSURE	5000 psi
SPEED	1.6 ft/s

ITEM	ID	OD	H
* DP1-3.250	3.250	3.875	0.550
* DP1-3.375	3.375	4.000	0.550

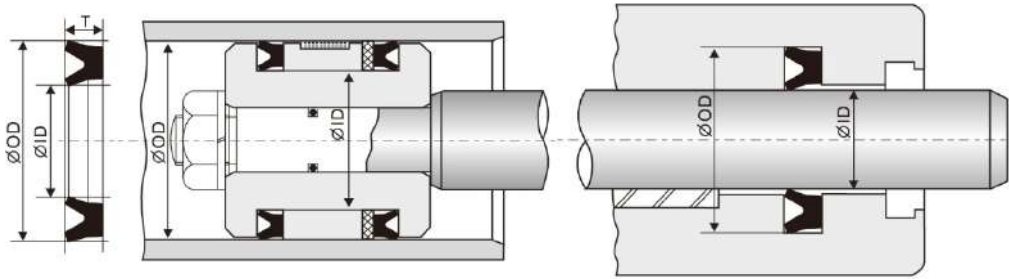
3/8 CROSS SECTION

* DP1-2.500	2.500	3.250	0.688
* DP1-2.750	2.750	3.500	0.688
* DP1-3.000	3.000	3.750	0.688
* DP1-3.250	3.250	4.000	0.688
* DP1-3.500	3.500	4.250	0.688
* DP1-3.750	3.750	4.500	0.688
* DP1-4.000	4.000	4.750	0.688
* DP1-4.250	4.250	5.000	0.688
* DP1-4.500	4.500	5.250	0.688
* DP1-4.750	4.750	5.500	0.688
* DP1-5.000	5.000	5.750	0.688
* DP1-5.250	5.250	6.000	0.688
* DP1-5.500	5.500	6.250	0.688
* DP1-6.000	6.000	6.750	0.688
* DP1-6.250	6.250	7.000	0.688
* DP1-7.250	7.250	8.000	0.688
* DP1-7.500	7.500	8.250	0.688
* DP1-7.750	7.750	8.500	0.688
* DP1-8.250	8.250	9.000	0.688

1/2 CROSS SECTION

* DP1-5.500	5.500	6.500	0.825
* DP1-6.000	6.000	7.000	0.825
* DP1-7.000	7.000	8.000	0.825
* DP1-8.000	8.000	9.000	0.825
* DP1-9.000	9.000	10.000	0.825
* DP1-10.000	10.000	11.000	0.825

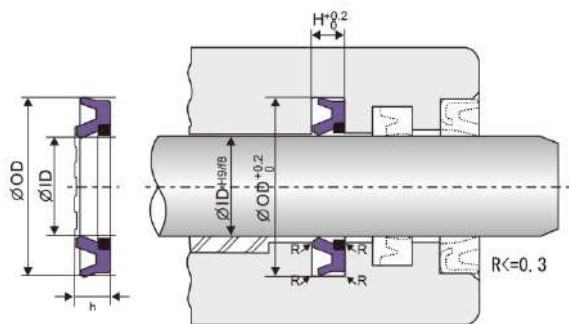
U8400 PISTON & ROD SEAL



APPLICATION	
MATERIAL	NBR
TEMP.	-13°F~230 °F
PRESSURE	1700 psi
SPEED	1.6 ft/s

ITEM	ID	OD	T
U8400-0.250	0.250	0.500	0.156
* U8400-0.750	0.750	1.000	0.156
* U8400-1.250	1.250	1.500	0.156
* U8400-1.750	1.750	2.000	0.156
* U8400-0.875	0.875	1.250	0.218
* U8400-1.500	1.500	1.875	0.218
U8400-1.000	1.000	1.500	0.281
* U8400-3.500	3.500	4.000	0.281

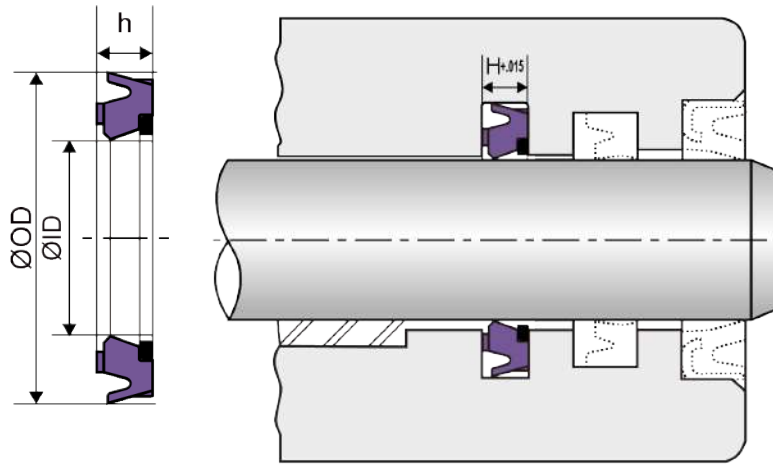
FB1 BUFFER SEAL



APPLICATION	
MATERIAL	PU+NY
TEMP.	-40°F~248°F
PRESSURE	5600 psi
SPEED	3.2 ft/s

ITEM	ID	OD	h	H
* FB1-1.250	1.250	1.812	0.125	0.140
* FB1-1.375	1.375	1.937	0.125	0.140
* FB1-1.500	1.500	2.062	0.125	0.140
* FB1-1.625	1.625	2.187	0.125	0.140
* FB1-1.750	1.750	2.312	0.125	0.140
* FB1-2.000	2.000	2.562	0.125	0.140
* FB1-2.250	2.250	2.937	0.187	0.234
* FB1-2.500	2.500	3.187	0.187	0.234
* FB1-2.750	2.750	3.375	0.187	0.234
* FB1-3.000	3.000	3.625	0.187	0.234
* FB1-3.500	3.500	4.187	0.187	0.234
* FB1-4.000	4.000	4.625	0.187	0.234
* FB1-1.750	1.750	2.400	0.200	0.220
* FB1-1.875	1.875	2.531	0.220	0.235
* FB1-2.125	2.125	2.770	0.220	0.220
* FB1-2.500	2.500	3.116	0.235	0.247
* FB1-2.750	2.750	3.366	0.235	0.247
* FB1-3.000	3.000	3.616	0.235	0.247
* FB1-3.500	3.500	4.116	0.235	0.247
* FB1-4.000	4.000	4.616	0.235	0.247
* FB1-4.500	4.500	5.116	0.235	0.247
* FB1-4.750	4.750	5.366	0.235	0.247
* FB1-5.000	5.000	5.616	0.235	0.247
* FB1-5.500	5.500	6.116	0.235	0.247
* FB1-5.750	5.750	6.375	0.235	0.250
* FB1-6.000	6.000	6.616	0.235	0.247
* FB1-6.500	6.500	7.116	0.235	0.247
* FB1-7.000	7.000	7.616	0.235	0.247
* FB1-7.500	7.500	8.116	0.235	0.247
* FB1-8.000	8.000	8.616	0.235	0.247
* FB1-15.00	15.750	16.500	0.305	0.319

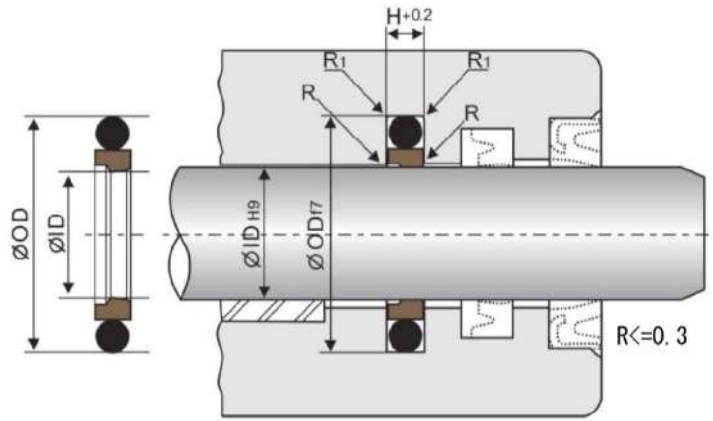
BR1 BUFFER SEAL



APPLICATION	
MATERIAL	PU+NY
TEMP.	-40 °F~248 °F
PRESSURE	5000 psi
SPEED	1.6 ft/s

ITEM	ID	OD	H
BR1-1.000	1.000	1.375	0.206
BR1-1.125	1.125	1.500	0.206
BR1-1.250	1.250	1.625	0.206
BR1-1.375	1.375	1.750	0.206
BR1-1.500	1.500	2.000	0.275
BR1-1.750	1.750	2.250	0.275
BR1-2.000	2.000	2.500	0.275
BR1-2.250	2.250	2.750	0.275
BR1-2.500	2.500	3.000	0.275
BR1-2.750	2.750	3.250	0.275
BR1-3.000	3.000	3.500	0.275
BR1-3.500	3.500	4.000	0.275
BR1-3.750	3.750	4.250	0.275
BR1-4.000	4.000	4.625	0.343
BR1-4.250	4.250	4.875	0.343
BR1-4.500	4.500	5.125	0.343
BR1-4.750	4.750	5.375	0.343
BR1-5.000	5.000	5.750	0.412
BR1-5.500	5.500	6.250	0.412
* BR1-5.750	5.750	6.250	0.413
* BR1-6.000	6.000	6.750	0.413
* BR1-8.000	8.000	9.000	0.55
* BR1-9.000	9.000	10.000	0.55
* BR1-10.000	10.000	11.000	0.55

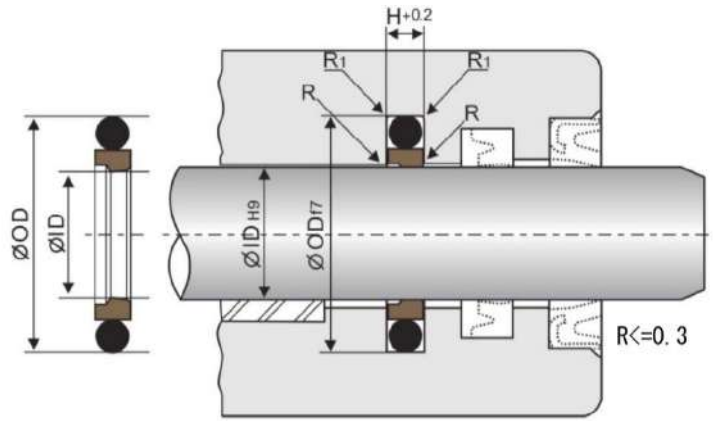
L-TYPE BUFFER SEAL



APPLICATION	
MATERIAL	NBR+PTFE
TEMP.	-40°F~230°F
PRESSURE	5000 psi
SPEED	4.9 ft/s

ITEM	ID	OD	H
* L-TYPE 0.313	0.313	0.599	0.126
* L-TYPE 0.375	0.375	0.661	0.126
* L-TYPE 0.438	0.438	0.724	0.126
* L-TYPE 0.500	0.500	0.786	0.126
* L-TYPE 0.563	0.563	0.849	0.126
* L-TYPE 0.625	0.625	0.911	0.126
* L-TYPE 0.688	0.688	0.974	0.126
* L-TYPE 0.750	0.750	1.170	0.165
* L-TYPE 0.813	0.813	1.233	0.165
* L-TYPE 0.875	0.875	1.295	0.165
* L-TYPE 0.938	0.938	1.358	0.165
* L-TYPE 1.000	1.000	1.420	0.165
* L-TYPE 1.063	1.063	1.483	0.165
* L-TYPE 1.125	1.125	1.545	0.165
* L-TYPE 1.188	1.188	1.608	0.165
* L-TYPE 1.250	1.250	1.670	0.165
* L-TYPE 1.313	1.313	1.733	0.165
* L-TYPE 1.375	1.375	1.795	0.165
* L-TYPE 1.438	1.438	1.858	0.165
L-TYPE 2.000	2.000	2.421	0.165
L-TYPE 5.000	5.000	5.616	0.247
* L-TYPE 1.500	1.500	2.094	0.248
* L-TYPE 1.563	1.563	2.157	0.248
* L-TYPE 1.625	1.625	2.219	0.248
* L-TYPE 1.688	1.688	2.282	0.248
L-TYPE 1.750	1.750	2.344	0.248
* L-TYPE 1.813	1.813	2.407	0.248
* L-TYPE 1.875	1.875	2.469	0.248
* L-TYPE 1.938	1.938	2.532	0.248
L-TYPE 2.000	2.000	2.594	0.248
* L-TYPE 2.125	2.125	2.719	0.248
L-TYPE 2.250	2.250	2.844	0.248
* L-TYPE 2.375	2.375	2.969	0.248
L-TYPE 2.500	2.500	3.094	0.248
* L-TYPE 2.625	2.625	3.219	0.248

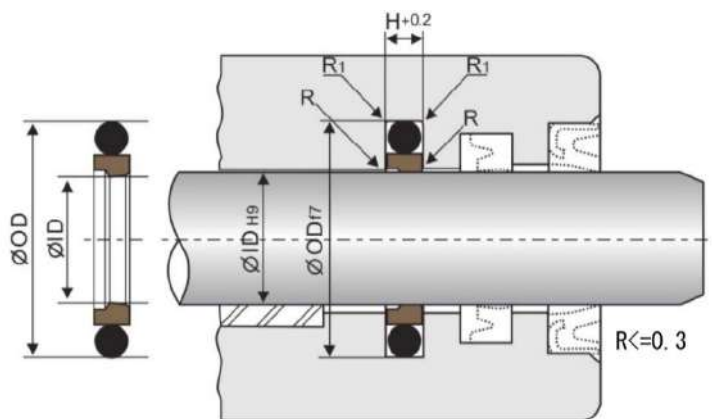
L-TYPE BUFFER SEAL



APPLICATION	
MATERIAL	NBR+PTFE
TEMP.	-40°F~230°F
PRESSURE	5000 psi
SPEED	4.9 ft/s

ITEM	ID	OD	H
* L-TYPE 2.750	2.750	3.344	0.248
* L-TYPE 2.875	2.875	3.469	0.248
L-TYPE 3.000	3.000	3.594	0.248
* L-TYPE 3.125	3.125	3.719	0.248
L-TYPE 3.250	3.250	3.844	0.248
* L-TYPE 3.375	3.375	3.969	0.248
L-TYPE 3.500	3.500	4.094	0.248
L-TYPE 3.625	3.625	4.219	0.248
* L-TYPE 3.750	3.750	4.344	0.248
* L-TYPE 3.875	3.875	4.469	0.248
L-TYPE 4.000	4.000	4.594	0.248
* L-TYPE 4.125	4.125	4.719	0.248
L-TYPE 4.250	4.250	4.844	0.248
* L-TYPE 4.375	4.375	4.969	0.248
L-TYPE 4.500	4.500	5.094	0.248
* L-TYPE 4.625	4.625	5.219	0.248
* L-TYPE 4.750	4.750	5.344	0.248
* L-TYPE 4.875	4.875	5.469	0.248
* L-TYPE 5.000	5.000	5.594	0.248
* L-TYPE 5.125	5.125	5.719	0.248
* L-TYPE 5.250	5.250	5.844	0.248
* L-TYPE 5.375	5.375	5.969	0.248
* L-TYPE 5.500	5.500	6.094	0.248
* L-TYPE 5.625	5.625	6.219	0.248
* L-TYPE 5.750	5.750	6.344	0.248
L-TYPE 6.000	6.000	6.594	0.248
* L-TYPE 6.250	6.250	6.844	0.248
* L-TYPE 6.500	6.500	7.094	0.248
* L-TYPE 6.750	6.750	7.344	0.248
L-TYPE 7.000	7.000	7.594	0.248
* L-TYPE 7.250	7.250	7.844	0.248
* L-TYPE 7.500	7.500	8.094	0.248
* L-TYPE 7.750	7.750	8.344	0.248
L-TYPE 8.000	8.000	8.806	0.319
* L-TYPE 8.250	8.250	9.056	0.319

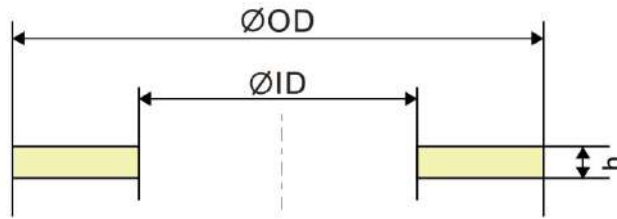
L-TYPE BUFFER SEAL



APPLICATION	
MATERIAL	NBR+PTFE
TEMP.	-40°F~230°F
PRESSURE	5000 psi
SPEED	4.9 ft/s

ITEM	ID	OD	H
L-TYPE 8.500	8.500	9.306	0.319
* L-TYPE 8.750	8.750	9.556	0.319
L-TYPE 9.000	9.000	9.806	0.319
* L-TYPE 9.250	9.250	10.056	0.319
* L-TYPE 9.500	9.500	10.306	0.319
* L-TYPE 9.750	9.750	10.556	0.319
L-TYPE 10.000	10.000	10.944	0.319
* L-TYPE 10.500	10.500	11.444	0.319
* L-TYPE 11.000	11.000	11.944	0.319
* L-TYPE 11.500	11.500	12.444	0.319
* L-TYPE 12.000	12.000	12.944	0.319
* L-TYPE 12.500	12.500	13.444	0.319
* L-TYPE 13.000	13.000	13.944	0.319
* L-TYPE 13.500	13.500	14.444	0.319
* L-TYPE 14.000	14.000	14.944	0.319
* L-TYPE 14.500	14.500	15.444	0.319
* L-TYPE 15.000	15.000	15.944	0.319
* L-TYPE 15.500	15.500	16.444	0.319
* L-TYPE 16.000	16.000	16.944	0.319
* L-TYPE 16.500	16.500	17.444	0.319
* L-TYPE 17.000	17.000	17.944	0.319
* L-TYPE 17.500	17.500	18.444	0.319
* L-TYPE 18.000	18.000	18.944	0.319
* L-TYPE 18.500	18.500	19.444	0.319
* L-TYPE 19.000	19.000	19.944	0.319
* L-TYPE 19.500	19.500	20.444	0.319
* L-TYPE 20.000	20.000	20.944	0.319

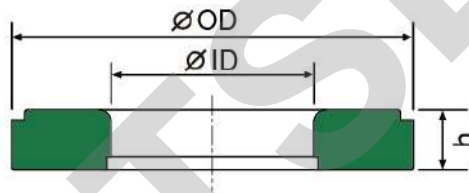
FI1 BUFFER SEAL



APPLICATION	
MATERIAL	PU
TEMP.	-40°F~212°F
PRESSURE	5000 psi
SPEED	3.2 ft/s

ITEM	ID	OD	h
* FI1-1.250	1.250	1.620	0.118
* FI1-1.250	1.250	1.770	0.114
* FI1-1.500	1.500	2.000	0.118
* FI1-1.750	1.750	2.250	0.118
* FI1-2.000	2.000	2.500	0.118
FI1-2.000	2.000	2.500	0.140
* FI1-2.250	2.250	2.870	0.190
* FI1-2.500	2.500	3.120	0.190
* FI1-3.000	3.000	3.620	0.190
* FI1-4.000	4.000	4.380	0.190
* FI1-4.500	4.500	5.220	0.170
* FI1-6.000	6.000	6.720	0.170
* FI1-7.500	7.500	8.220	0.170

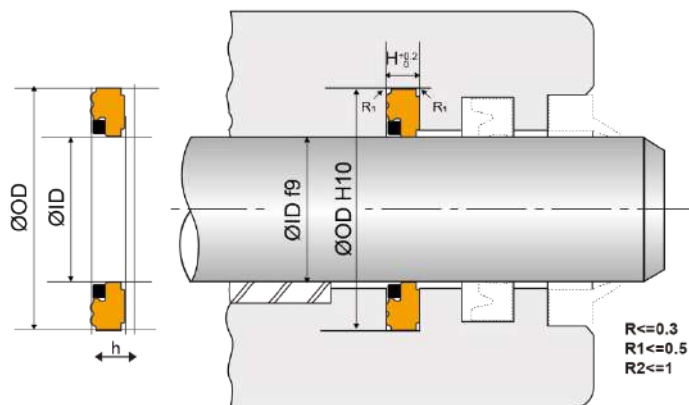
HOI BUFFER SEAL



APPLICATION	
MATERIAL	PU
TEMP.	-40°F~212°F
PRESSURE	5000 psi
SPEED	3.2 ft/s

ITEM	ID	OD	h
HOI-1.500	1.500	2.030	0.140
HOI-1.750	1.750	2.280	0.140
HOI-2.000	2.000	2.530	0.140
HOI-2.250	2.250	2.890	0.220
HOI-2.500	2.500	3.140	0.220

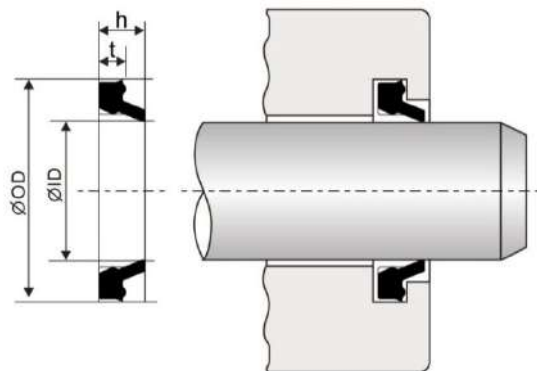
BA1 BUFFER SEAL



APPLICATION	
MATERIAL	TPU+NY
TEMP.	-113°F~230°F
PRESSURE	10000 psi
SPEED	3.0 ft/s

ITEM	ID	OD	H
* BA1-1.25	1.25	1.674	0.2
BA1-2	2	2.424	0.2
BA1-2.5	2.5	2.924	0.2
* BA1-2.75	2.75	3.174	0.2
* BA1-3	3	3.616	0.2
* BA1-3.5	3.5	4.116	0.2
* BA1-4	4	4.616	0.2
* BA1-7	7	7.616	0.2
* BA1-8	8	8.61	0.2
* BA1-8.5	8.5	9.116	0.2
* BA1-12	12	12.95	0.3

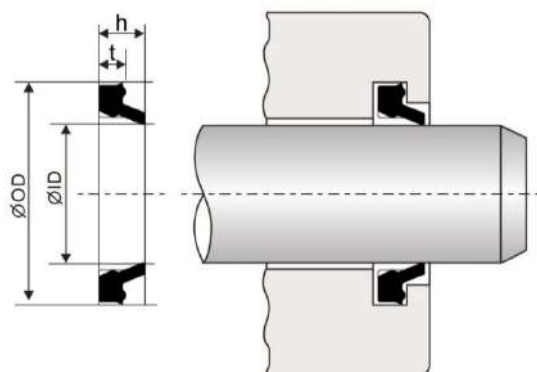
AN1 WIPER SEAL



APPLICATION	
MATERIAL	TPU
TEMP.	-31°F ~ 212°F
SPEED	3.2 ft/s

ITEM	ID	OD	t	h
AN1-01	0.500	0.760	0.107	0.187
AN1-02	0.562	0.823	0.107	0.187
AN1-03	0.625	0.885	0.107	0.187
* AN1-04	0.687	0.948	0.107	0.187
AN1-05	0.750	1.010	0.107	0.187
* AN1-06	0.812	1.084	0.107	0.187
AN1-07	0.875	1.147	0.107	0.187
* AN1-08	0.937	1.209	0.107	0.187
AN1-09	1.000	1.272	0.107	0.187
* AN1-10	1.062	1.334	0.107	0.187
AN1-11	1.125	1.397	0.107	0.187
AN1-12	1.187	1.459	0.107	0.187
AN1-13	1.250	1.522	0.107	0.187
* AN1-14	1.312	1.614	0.107	0.187
AN1-15	1.375	1.677	0.107	0.187
* AN1-16	1.437	1.739	0.107	0.187
AN1-17	1.500	1.802	0.107	0.187
AN1-18	1.625	1.927	0.107	0.187
AN1-19	1.750	2.052	0.107	0.187
AN1-20	1.875	2.177	0.107	0.187
AN1-21	2.000	2.302	0.107	0.187
* AN1-22	2.125	2.427	0.107	0.187
AN1-23	2.250	2.552	0.107	0.187
* AN1-24	2.375	2.677	0.107	0.187
AN1-25	2.500	2.802	0.107	0.187
* AN1-26	2.625	2.989	0.122	0.212
AN1-27	2.750	3.114	0.122	0.212
* AN1-28	2.875	3.239	0.122	0.212
AN1-29	3.000	3.364	0.122	0.212
* AN1-30	3.125	3.489	0.122	0.212
* AN1-31	3.250	3.614	0.122	0.212
* AN1-32	3.375	3.739	0.122	0.212
AN1-33	3.500	3.864	0.122	0.212
* AN1-34	3.625	3.989	0.122	0.212
AN1-35	3.750	4.114	0.122	0.212
* AN1-36	3.875	4.239	0.122	0.212
AN1-37	4.000	4.427	0.138	0.238

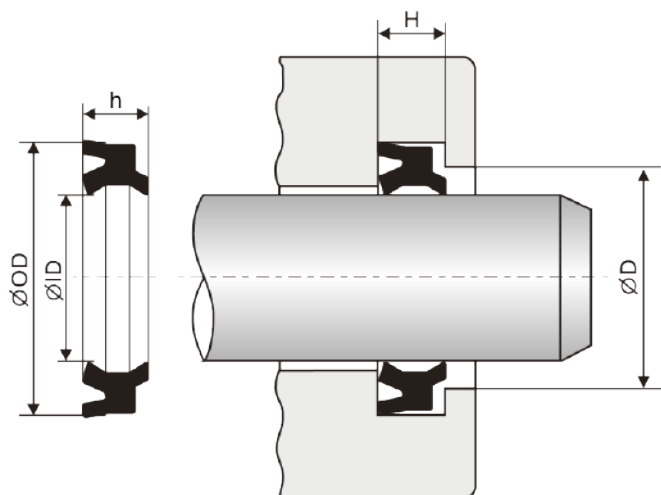
AN1 WIPER SEAL



APPLICATION	
MATERIAL	TPU
TEMP.	-31°F ~ 212°F
SPEED	3.2 ft/s

ITEM	ID	OD	t	h
* AN1-38	4.125	4.552	0.138	0.238
* AN1-39	4.250	4.677	0.138	0.238
* AN1-40	4.375	4.802	0.138	0.238
* AN1-41	4.500	4.927	0.138	0.238
* AN1-42	4.625	5.052	0.138	0.238
AN1-43	4.750	5.177	0.138	0.238
* AN1-44	4.875	5.302	0.138	0.238
* AN1-45	5.000	5.427	0.138	0.238
* AN1-46	5.125	5.552	0.138	0.238
* AN1-47	5.250	5.677	0.138	0.238
* AN1-48	5.375	5.802	0.138	0.238
* AN1-49	5.500	5.927	0.138	0.238
* AN1-50	5.625	6.114	0.154	0.264
AN1-51	5.750	6.239	0.154	0.264
* AN1-52	5.875	6.364	0.154	0.264
* AN1-53	6.000	6.489	0.154	0.264
AN1-54	6.250	6.739	0.154	0.264
* AN1-55	6.500	6.989	0.154	0.264
* AN1-56	6.750	7.239	0.154	0.264
* AN1-57	7.000	7.489	0.154	0.264
* AN1-58	7.250	7.739	0.154	0.264
* AN1-59	7.500	7.989	0.154	0.264
* AN1-60	7.750	8.239	0.154	0.264
* AN1-61	8.000	8.489	0.154	0.264
* AN1-62	8.500	8.989	0.154	0.264
* AN1-63	9.000	9.489	0.154	0.264
* AN1-9.250	9.250	9.739	0.154	0.264
* AN1-64	9.500	9.989	0.154	0.264
* AN1-65	10.000	10.489	0.154	0.264
* AN1-66	10.500	10.989	0.154	0.264
* AN1-67	11.000	11.489	0.154	0.264
* AN1-68	11.500	11.989	0.169	0.289
* AN1-69	12.000	12.489	0.169	0.289

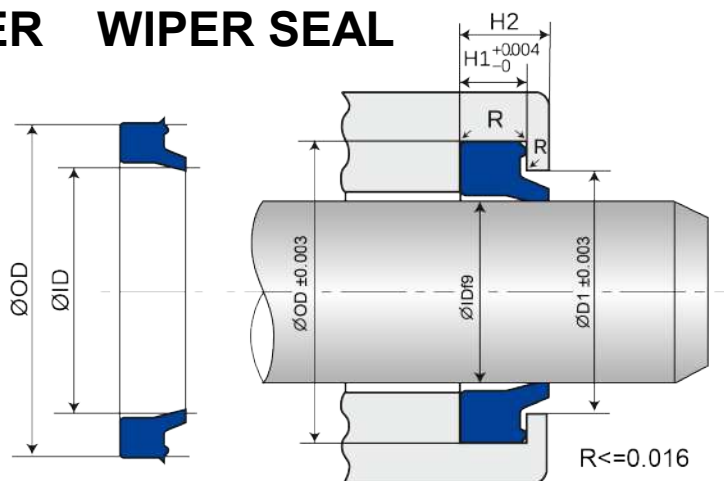
WH WIPER SEAL



APPLICATION		
MATERIAL	FKM	NBR
TEMP.	-4°F~356°F	-31°F~212°F
SPEED	3.2 ft/s	3.2 ft/s

ITEM	ID	OD	H	D	h
* WH-0.500	0.500	0.802	0.203	0.620	0.245
WH-0.625	0.625	0.927	0.203	0.745	0.245
WH-0.750	0.750	1.052	0.203	0.870	0.245
WH-0.875	0.875	1.240	0.218	1.010	0.275
* WH-1.000	1.000	1.365	0.218	1.135	0.275
WH-1.125	1.125	1.490	0.218	1.260	0.275
WH-1.250	1.250	1.615	0.218	1.385	0.275
WH-1.375	1.375	1.740	0.218	1.510	0.275
WH-1.500	1.500	1.865	0.218	1.635	0.275
* WH-1.625	1.625	1.990	0.218	1.760	0.275
WH-1.750	1.750	2.115	0.218	1.885	0.275
* WH-1.875	1.875	2.240	0.218	2.010	0.275
WH-2.000	2.000	2.365	0.218	2.135	0.275
* WH-2.125	2.125	2.490	0.218	2.260	0.275
* WH-2.250	2.250	2.745	0.281	2.385	0.351
WH-2.500	2.500	2.995	0.281	2.635	0.351
* WH-2.750	2.750	3.245	0.281	2.885	0.351
* WH-3.000	3.000	3.495	0.281	3.135	0.351
* WH-3.500	3.500	3.995	0.281	3.635	0.351
* WH-4.000	4.000	4.495	0.281	4.135	0.351
* WH-4.500	4.500	4.995	0.281	4.635	0.351
* WH-5.000	5.000	5.495	0.281	5.135	0.351
* WH-5.500	5.500	5.995	0.281	5.635	0.351

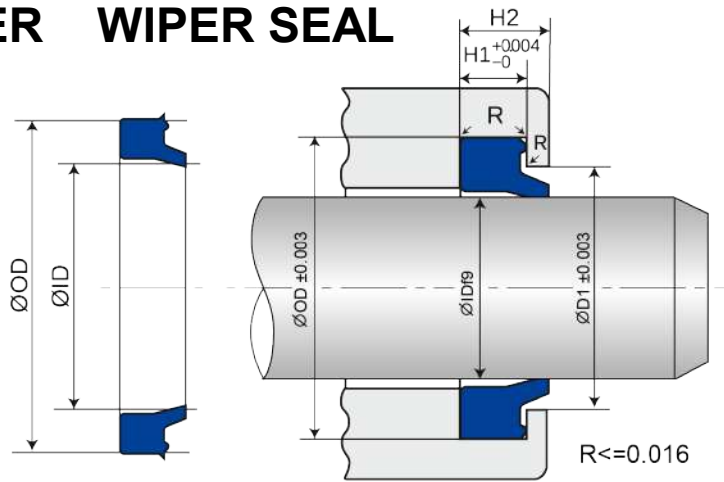
D-WIPER WIPER SEAL



APPLICATION	
MATERIAL	PU
TEMP.	-40°F~230°F
SPEED	13.1 ft/s

ITEM	ID	OD	H1	H2	D1
D-00250	0.250	0.500	0.125	0.187	
D-00375	0.375	0.625	0.125	0.187	0.540
D-00500	0.500	0.750	0.125	0.187	0.665
D-00562	0.562	0.812	0.125	0.187	0.725
* D-00563	0.563	0.844	0.125	0.187	0.736
D-00625	0.625	0.875	0.125	0.187	0.790
D-00750	0.750	1.125	0.187	0.281	1.000
D-00875	0.875	1.250	0.187	0.281	1.125
D-01000	1.000	1.375	0.187	0.281	1.250
D-01125	1.125	1.500	0.187	0.281	1.375
D-01187	1.187	1.562	0.187	0.281	1.437
D-01250	1.250	1.625	0.187	0.281	1.500
D-01375	1.375	1.750	0.187	0.281	1.625
D-01500	1.500	1.875	0.187	0.281	1.750
D-01625	1.625	2.000	0.187	0.281	1.875
D-01750	1.750	2.125	0.187	0.281	2.000
D-01875	1.875	2.250	0.187	0.281	2.125
D-02000	2.000	2.500	0.250	0.375	2.332
D-02125	2.125	2.625	0.250	0.375	
D-02250	2.250	2.750	0.250	0.375	2.582
D-02375	2.375	2.875	0.250	0.375	2.707
D-02500	2.500	3.000	0.250	0.375	2.832
* D-02625	2.625	3.125	0.250	0.375	2.832
D-02750	2.750	3.250	0.250	0.375	2.957
D-03000	3.000	3.500	0.250	0.375	3.082
D-03125	3.125	3.625	0.250	0.375	
D-03250	3.250	3.750	0.250	0.375	3.332
D-03500	3.500	4.000	0.250	0.375	3.582
D-03750	3.750	4.250	0.250	0.375	3.832
D-03875	3.875	4.375	0.250	0.375	4.082
D-04000	4.000	4.500	0.250	0.375	4.207
D-04250	4.250	4.750	0.250	0.375	4.332
D-04500	4.500	5.000	0.250	0.375	4.582
D-05000	5.000	5.500	0.250	0.375	5.373
D-05750	5.750	6.250	0.250	0.375	6.248
D-06000	6.000	6.500	0.250	0.375	6.332
D-07000	7.000	7.500	0.250	0.375	7.332

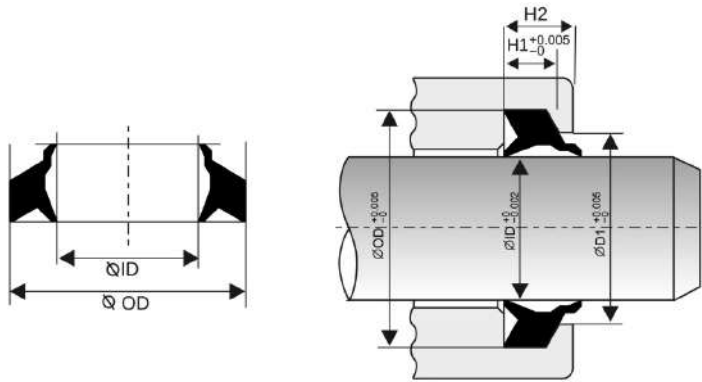
D-WIPER WIPER SEAL



APPLICATION	
MATERIAL	PU
TEMP.	-40°F~230°F
SPEED	13.1 ft/s

ITEM	ID	OD	H1	H2	D1
D-07250	7.250	7.750	0.250	0.375	7.998
D-08125	8.125	8.625	0.250	0.375	8.457
* D-09375	9.375	9.875	0.250	0.375	9.707
D-04500	4.500	5.250	0.375	0.562	4.832
D-04750	4.750	5.500	0.375	0.562	4.998
* D-04875	4.875	5.625	0.375	0.562	5.248
D-05000	5.000	5.750	0.375	0.562	5.332
D-05250	5.250	6.000	0.375	0.562	5.498
D-05500	5.500	6.250	0.375	0.562	5.998
D-05750	5.750	6.500	0.375	0.562	6.248
* D-05875	5.875	6.625	0.375	0.562	6.373
D-06000	6.000	6.750	0.375	0.562	6.498
D-06500	6.500	7.250	0.375	0.562	6.998
D-07000	7.000	7.750	0.375	0.562	7.498
D-07500	7.500	8.250	0.375	0.562	7.998
D-08000	8.000	8.750	0.375	0.562	8.498
D-08250	8.250	9.000	0.375	0.562	8.748
D-08500	8.500	9.250	0.375	0.562	8.998
* D-09500	9.500	10.250	0.375	0.562	9.998
* D-11000	11.000	11.750	0.375	0.562	11.498
D-10000	10.000	11.000	0.500	0.750	10.664
* D-11000	11.000	12.000	0.500	0.750	11.664
D-12000	12.000	13.000	0.500	0.750	12.664
* D-14000	14.000	15.000	0.500	0.750	14.664
* D-15000	15.000	16.000	0.500	0.750	15.664

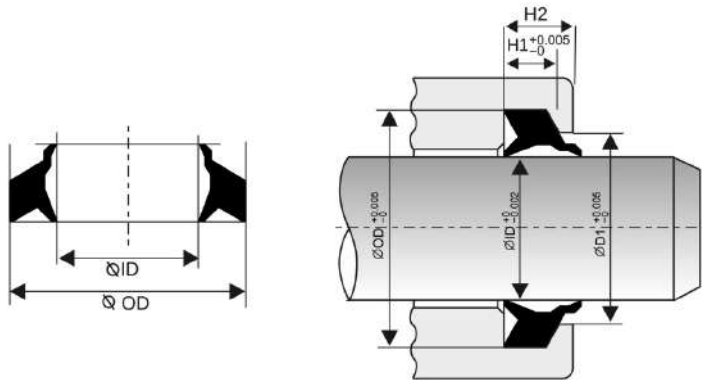
WY WIPER SEAL



APPLICATION	
MATERIAL	PU
TEMP.	-40°F~212°F
SPEED	3.2 ft/s

ITEM	ID	OD	H1	H2	D1
* WY-0.500	0.500	0.760	0.155	0.315	0.625
* WY-0.562	0.562	0.822	0.155	0.315	0.687
* WY-0.625	0.625	0.885	0.155	0.315	0.750
* WY-0.687	0.687	0.947	0.155	0.315	0.812
* WY-0.750	0.750	1.135	0.195	0.366	0.832
* WY-0.812	0.812	1.197	0.195	0.366	0.894
* WY-0.875	0.875	1.260	0.195	0.366	0.957
* WY-0.937	0.937	1.322	0.195	0.366	1.019
WY-1.000	1.000	1.385	0.195	0.366	1.082
* WY-1.062	1.062	1.447	0.195	0.366	1.144
WY-1.125	1.125	1.510	0.195	0.366	1.207
* WY-1.187	1.187	1.572	0.195	0.366	1.269
WY-1.250	1.250	1.635	0.195	0.366	1.332
* WY-1.312	1.312	1.697	0.195	0.366	1.394
* WY-1.375	1.375	1.760	0.195	0.366	1.457
* WY-1.437	1.437	1.822	0.195	0.366	1.519
* WY-1.500	1.500	1.885	0.195	0.366	1.582
* WY-1.562	1.562	1.947	0.195	0.366	1.644
* WY-1.625	1.625	2.010	0.195	0.366	1.707
* WY-1.687	1.687	2.072	0.195	0.366	1.769
WY-1.750	1.750	2.135	0.195	0.366	1.832
* WY-1.812	1.812	2.197	0.195	0.366	1.894
* WY-1.875	1.875	2.260	0.195	0.366	1.957
* WY-1.937	1.937	2.322	0.195	0.366	2.019
WY-2.000	2.000	2.385	0.195	0.366	2.082
* WY-2.125	2.125	2.510	0.195	0.366	2.207
* WY-2.250	2.250	2.760	0.255	0.483	2.207
* WY-2.375	2.375	2.885	0.255	0.483	2.532
* WY-2.500	2.500	3.010	0.255	0.483	2.657
* WY-2.625	2.625	3.135	0.255	0.483	2.782
* WY-2.750	2.750	3.260	0.255	0.483	2.907
* WY-2.875	2.875	3.385	0.255	0.483	3.032
WY-3.000	3.000	3.385	0.255	0.483	3.517
* WY-3.000	3.000	3.510	0.255	0.483	3.157
* WY-3.125	3.125	3.635	0.255	0.483	3.282
* WY-3.250	3.250	3.760	0.255	0.483	3.407
* WY-3.375	3.375	3.885	0.255	0.483	3.532
* WY-3.500	3.500	4.010	0.255	0.483	3.657
* WY-3.625	3.625	4.135	0.255	0.483	3.782
* WY-3.750	3.750	4.260	0.255	0.483	3.907

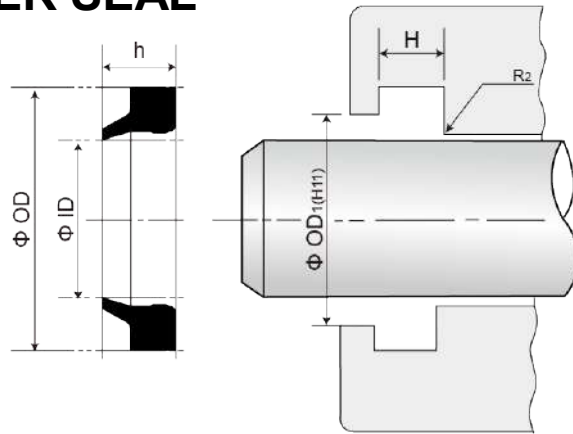
WY WIPER SEAL



APPLICATION	
MATERIAL	PU
TEMP.	-40°F~212°F
SPEED	3.2 ft/s

ITEM	ID	OD	H1	H2	D1
* WY-3.875	3.875	4.385	0.255	0.483	4.032
* WY-4.000	4.000	4.510	0.255	0.483	4.157
* WY-4.125	4.125	4.635	0.255	0.483	4.282
* WY-4.250	4.250	4.760	0.255	0.483	4.407
* WY-4.375	4.375	4.885	0.255	0.483	4.532
* WY-4.500	4.500	5.010	0.255	0.483	4.657
* WY-4.625	4.625	5.135	0.255	0.483	4.782
* WY-4.750	4.750	5.260	0.255	0.483	4.907
* WY-4.875	4.875	5.385	0.255	0.483	5.032
* WY-5.000	5.000	5.510	0.255	0.483	5.157
* WY-5.250	5.250	5.760	0.255	0.483	5.407
* WY-5.500	5.500	6.010	0.255	0.483	5.657

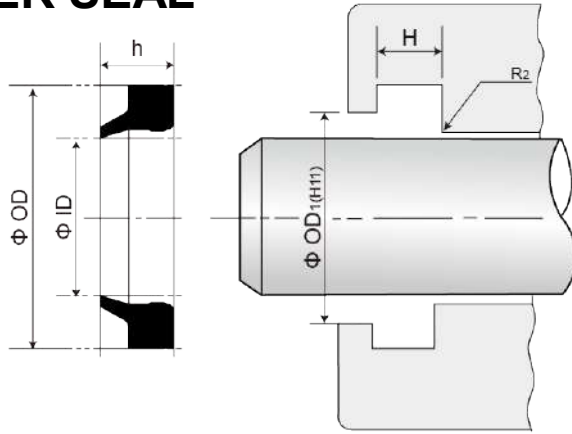
WA1 WIPER SEAL



APPLICATION	
MATERIAL	NBR
TEMP.	-30~+100°C
SPEED	1m/s

ITEM	ID	OD	h	D1	H
* WA1-20	20	28.6	7	23.0	5.3
* WA1-22	22	30.6	7	25.0	5.3
* WA1-25	25	33.6	7	28.0	5.3
* WA1-28	28	36.6	7	31.0	5.3
* WA1-30	30	38.6	7	33.0	5.3
* WA1-32	32	40.6	7	35.0	5
* WA1-35	35	43.6	7	38.0	5.3
* WA1-42	42	50.6	7	45.0	5.3
* WA1-45	45	55.6	7	48.0	5.3
* WA1-50	50	58.6	7	53.0	5.3
* WA1-50	50	60.6	7	53.0	5.3
* WA1-55	55	65.6	7	58.0	5.3
* WA1-56	56	66.6	7	59.0	5.3
* WA1-60	60	68.6	7	63.0	5.3
* WA1-60	60	70.6	7	63.0	5.3
* WA1-63	63	71.6	7	66.0	5.3
* WA1-63	63	73.6	7	66.0	5.3
* WA1-65	65	73.6	7	68.0	5.3
* WA1-70	70	78.6	7	73.0	5.3
* WA1-70	70	80.6	7	73.0	5.3
* WA1-75	75	83.6	7	78.0	5.3
* WA1-80	80	88.6	7	83.0	5.3
* WA1-80	80	90.6	7	83.0	5.3
* WA1-75	75	87.2	12	81.0	7.2
* WA1-80	80	92.2	12	86.0	7.2
* WA1-85	85	97.2	12	91.0	7.2
* WA1-90	90	102.2	12	96.0	7.2
* WA1-100	100	112.2	12	106.0	7.2
* WA1-110	110	122.2	12	116.0	7.2
* WA1-115	115	127.2	12	121.0	7.2
* WA1-150	150	162.2	12	156.0	7.7
WA1-300	300	320	13	306.0	7
* WA1-290	290	305	15	297.6	7.7
* WA1-140	140	155	16	147.6	10.2
* WA1-150	150	165	16	157.6	10.2
* WA1-160	160	175	16	167.6	10.2
* WA1-210	210	225	16	217.6	10.2
* WA1-220	220	235	16	227.6	10.2
* WA1-220	220	235	16	227.6	10.2
* WA1-230	230	245	16	237.6	10.2

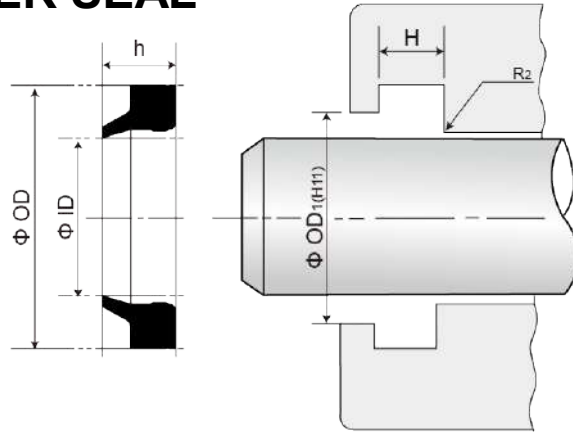
WA1 WIPER SEAL



APPLICATION	
MATERIAL	NBR
TEMP.	-30~+100°C
SPEED	1m/s

ITEM	ID	OD	h	D1	H
* WA1-265	265	280	16	272.6	10.2
* WA1-180	180	200	18	190.0	10.2
* WA1-190	190	210	18	200.0	10.2
* WA1-200	200	220	18	210.0	10.2
* WA1-220	220	240	18	230.0	10.2
* WA1-225	225	245	18	235.0	10.2
* WA1-230	230	250	18	240.0	10.2
* WA1-240	240	260	18	250.0	10.2
* WA1-250	250	270	18	260.0	10.2
* WA1-260	260	280	18	270.0	10.2
* WA1-270	270	290	18	280.0	10.2
WA1-300	300	320	18	310.0	10.2
* WA1-320	320	340	18	330.0	10.2
* WA1-360	360	380	18	370.0	10.2
* WA1-370	370	390	18	380.0	10.2
* WA1-380	380	400	18	390.0	10.2
* WA1-400	400	420	18	410.0	10.2
* WA1-400	400	420	18	410.0	10.2
* WA1-440	440	460	18	450.0	10.2
* WA1-450	450	470	18	460.0	10.2
* WA1-460	460	480	18	470.0	10.2
* WA1-500	500	520	18	510.0	10.2
* WA1-320	320	345	20	332.6	12.7
* WA1-350	350	375	20	362.6	12.7
* WA1-430	430	455	20	442.6	12.7
* WA1-560	560	585	20	572.6	12.7
* WA1-600	600	625	20	612.6	12.7
* WA1-610	610	635	20	622.6	12.7
* WA1-630	630	655	20	642.6	12.7
* WA1-640	640	665	20	652.6	12.7
* WA1-670	670	695	20	682.6	12.7
* WA1-680	680	705	20	692.6	12.7
* WA1-700	700	725	20	712.6	12.7
* WA1-710	710	735	20	722.6	12.7
* WA1-720	720	745	20	732.6	12.7
* WA1-750	750	775	20	762.6	12.7
* WA1-770	770	795	20	782.6	12.7
* WA1-780	780	805	20	792.6	12.7
* WA1-800	800	825	20	812.6	12.7
* WA1-850	850	875	20	862.6	12.7

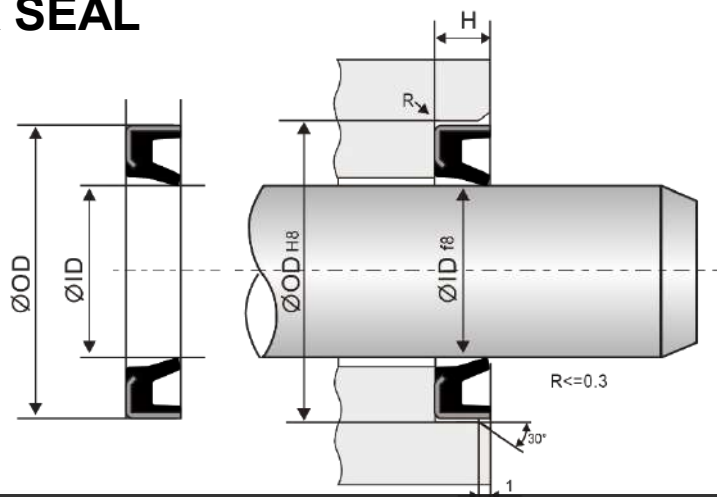
WA1 WIPER SEAL



APPLICATION	
MATERIAL	NBR
TEMP.	-30~+100°C
SPEED	1m/s

ITEM	ID	OD	h	D1	H
* WA1-880	880	905	20	892.6	12.7
* WA1-900	900	925	20	912.6	12.7
* WA1-380	380	410	25	395.0	15.2
* WA1-420	420	450	25	435.0	15.2
* WA1-520	520	550	25	535.0	15.2
* WA1-530	530	560	25	545.0	15.2

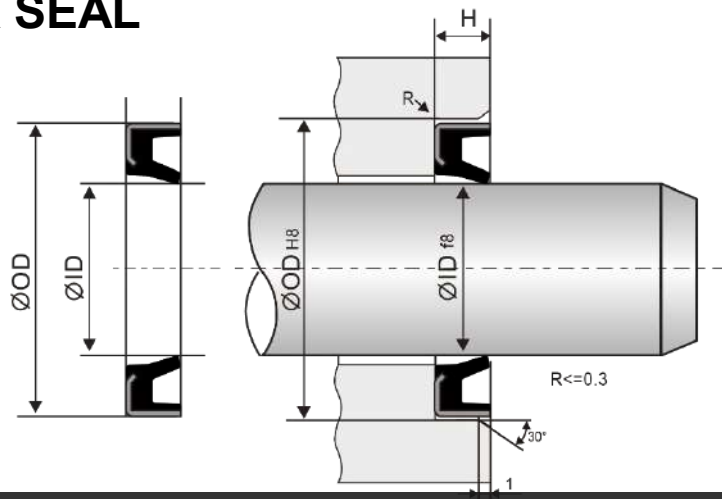
DW1 WIPER SEAL



APPLICATION	
MATERIAL	PU+STEEL
TEMP.	-31°F~230°F
SPEED	3.2ft/s

ITEM	ID	OD	H
* DW1-0.500	0.500	1.000	0.25
DW1-1.187	1.187	1.625	0.25
* DW1-1.500	1.500	1.187	0.25
DW1-1.500	1.500	2.250	0.25
DW1-2.000	2.000	2.375	0.25
DW1-1.000	1.000	1.500	0.31
DW1-1.500	1.500	2.000	0.31
DW1-1.750	1.750	2.250	0.31
DW1-2.000	2.000	2.500	0.31
DW1-2.250	2.250	2.750	0.31
DW1-2.750	2.750	3.250	0.31
* DW1-0.625	0.625	1.125	0.312
DW1-0.750	0.750	1.250	0.312
DW1-0.875	0.875	1.375	0.312
DW1-1.000	1.000	1.500	0.312
DW1-1.125	1.125	1.625	0.312
DW1-1.250	1.250	1.750	0.312
DW1-1.375	1.375	1.875	0.312
DW1-1.500	1.500	2.000	0.312
* DW1-1.625	1.625	2.125	0.312
DW1-1.750	1.750	2.250	0.312
* DW1-1.875	1.875	2.375	0.312
DW1-2.000	2.000	2.500	0.312
DW1-2.125	2.125	2.625	0.312
DW1-2.250	2.250	2.750	0.312
DW1-2.375	2.375	2.875	0.312
DW1-2.500	2.500	3.000	0.312
DW1-2.625	2.625	3.125	0.312
DW1-2.750	2.750	3.250	0.312
DW1-3.000	3.000	3.500	0.312
DW1-3.250	3.250	3.875	0.312
* DWI-3.500	3.500	4.000	0.312
DW1-3.500	3.500	4.125	0.312
DW1-3.750	3.750	4.375	0.312
DW1-4.000	4.000	4.625	0.312

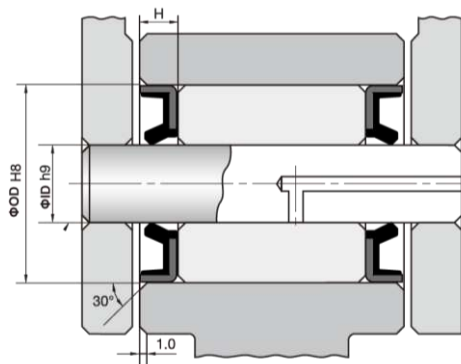
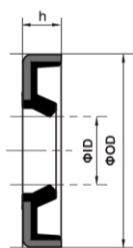
DW1 WIPER SEAL



APPLICATION	
MATERIAL	PU+STEEL
TEMP.	-31°F~230°F
SPEED	3.2ft/s

ITEM	ID	OD	H
DW1-4.250	4.250	4.875	0.312
DW1-4.500	4.500	5.125	0.312
* DW1-4.750	4.750	5.375	0.312
DW1-5.000	5.000	5.625	0.312
DW1-5.000	5.000	5.750	0.312
* DW1-5.250	5.250	5.875	0.312
DW1-7.000	7.000	7.750	0.312
DW1-2.000	2.000	2.687	0.375
DW1-2.250	2.250	3.000	0.375
DW1-2.500	2.500	3.250	0.375
DW1-3.000	3.000	3.750	0.375
DW1-5.500	5.500	6.125	0.375
DW1-5.750	5.750	6.375	0.375

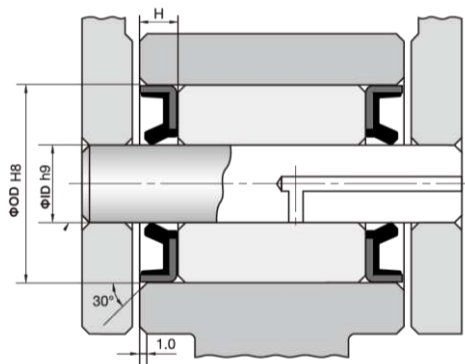
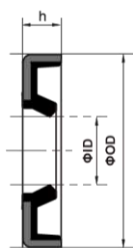
DWP DUST SEAL



APPLICATION	
MATERIAL	NBR+STEEL
TEMP.	-40°F~212°F

ITEM	ID	OD	h
DWP-0.500	0.500	0.750	0.125
DWP-0.625	0.625	0.875	0.125
DWP-0.750	0.750	1.000	0.125
* DWP-0.813	0.813	1.063	0.125
* DWP-0.875	0.875	1.125	0.125
DWP-1.000	1.000	1.250	0.125
* DWP-1.125	1.125	1.375	0.125
DWP-1.250	1.250	1.500	0.125
* DWP-1.375	1.375	1.750	0.125
DWP-1.250	1.250	1.690	0.180
DWP-0.750	0.750	1.125	0.188
DWP-1.062	1.062	1.500	0.188
DWP-1.250	1.250	1.687	0.188
* DWP-0.625	0.625	0.938	0.188
* DWP-0.750	0.750	1.125	0.188
* DWP-0.875	0.875	1.250	0.188
* DWP-1.000	1.000	1.375	0.188
* DWP-1.000	1.000	1.500	0.188
* DWP-1.062	1.062	1.500	0.188
* DWP-1.125	1.125	1.500	0.188
DWP-1.250	1.250	1.690	0.188
* DWP-1.375	1.375	1.750	0.188
* DWP-1.500	1.500	1.875	0.188
DWP-1.750	1.750	2.125	0.188
DWP-1.750	1.750	2.250	0.188
* DWP-1.875	1.875	2.250	0.188
* DWP-2.000	2.000	2.375	0.188
* DWP-2.125	2.125	2.500	0.188
* DWP-2.500	2.500	3.000	0.188
* DWP-2.750	2.750	3.125	0.188
* DWP-4.000	4.000	4.625	0.188
* DWP-0.750	0.750	1.250	0.250
* DWP-1.000	1.000	1.438	0.250
DWP-1.120	1.120	1.625	0.250
DWP-1.125	1.125	1.625	0.250
* DWP-1.188	1.188	1.627	0.250
* DWP-1.250	1.250	1.625	0.250

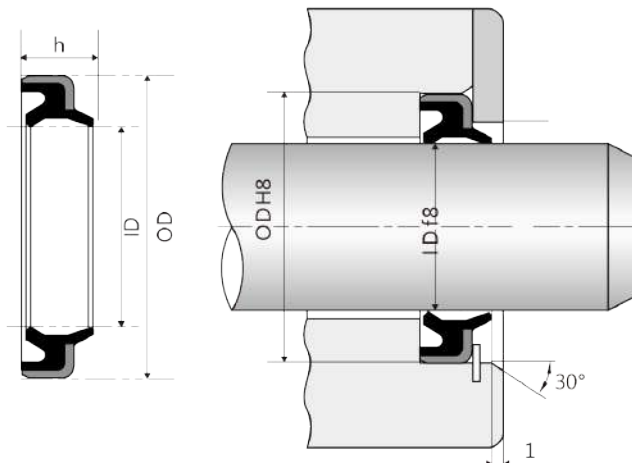
DWP DUST SEAL



APPLICATION	
MATERIAL	NBR+STEEL
TEMP.	-40°F~212°F

ITEM	ID	OD	h
* DWP-1.250	1.250	1.750	0.250
* DWP-1.250	1.250	1.875	0.250
DWP-1.375	1.375	1.875	0.250
DWP-1.500	1.500	1.875	0.250
DWP-1.500	1.500	2.000	0.250
* DWP-1.625	1.625	2.125	0.250
* DWP-1.625	1.625	2.625	0.250
DWP-1.750	1.750	2.250	0.250
DWP-1.750	1.750	2.375	0.250
* DWP-1.750	1.750	2.625	0.250
* DWP-1.875	1.875	2.250	0.250
* DWP-1.875	1.875	2.500	0.250
DWP-2.000	2.000	2.500	0.250
DWP-2.000	2.000	2.625	0.250
* DWP-2.250	2.250	2.625	0.250
DWP-2.250	2.250	2.750	0.250
* DWP-2.250	2.250	2.875	0.250
* DWP-2.375	2.375	3.000	0.250
DWP-2.500	2.500	3.125	0.250
* DWP-2.750	2.750	3.125	0.250
* DWP-2.750	2.750	3.250	0.250
* DWP-3.000	3.000	3.500	0.250
* DWP-3.000	3.000	3.750	0.250
* DWP-3.500	3.500	4.003	0.250
DWP-2.500	2.500	3.000	0.313

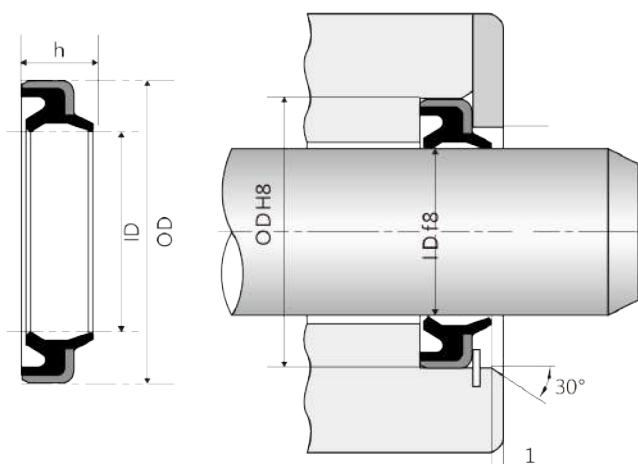
DK1 WIPER SEAL



APPLICATION	
MATERIAL	PU+STEEL
TEMP.	-4°F~176°F

ITEM	ID	OD	h
* DK1-0.500	0.500	1.000	0.250
* DK1-0.625	0.625	1.125	0.312
* DK1-0.750	0.750	1.250	0.312
* DK1-0.875	0.875	1.375	0.312
* DK1-1.000	1.000	1.500	0.312
* DK1-1.125	1.125	1.625	0.312
* DK1-1.250	1.250	1.750	0.312
* DK1-1.375	1.375	1.875	0.312
* DK1-1.500	1.500	2.000	0.312
* DK1-1.625	1.625	2.125	0.312
* DK1-1.750	1.750	2.250	0.312
* DK1-1.875	1.875	2.375	0.312
* DK1-2.000	2.000	2.500	0.312
* DK1-2.125	2.125	2.625	0.312
* DK1-2.250	2.250	2.750	0.312
* DK1-2.375	2.375	2.875	0.312
* DK1-2.500	2.500	3.000	0.312
* DK1-2.625	2.625	3.125	0.312
* DK1-2.750	2.750	3.250	0.312
* DK1-2.875	2.875	3.375	0.312
* DK1-3.000	3.000	3.500	0.312
* DK1-3.250	3.250	3.875	0.312
* DK1-3.500	3.500	4.125	0.312
* DK1-3.750	3.750	4.375	0.312
* DK1-4.000	4.000	4.625	0.312
* DK1-4.250	4.250	4.875	0.312
* DK1-4.500	4.500	5.125	0.312
* DK1-4.750	4.750	5.375	0.312
* DK1-5.000	5.000	5.625	0.312
* DK1-5.250	5.250	5.875	0.312
* DK1-5.500	5.500	6.125	0.375
* DK1-5.750	5.750	6.375	0.375
* DK1-6.000	6.000	6.625	0.375
* DK1-6.250	6.250	6.875	0.375
* DK1-6.500	6.500	7.125	0.375

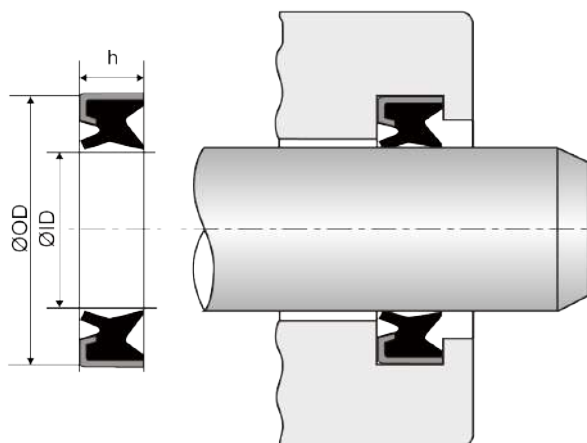
DK1 WIPER SEAL



APPLICATION	
MATERIAL	PU+STEEL
TEMP.	-4°F~176°F

ITEM	ID	OD	h
* DK1-6.750	6.750	7.375	0.375
* DK1-7.000	7.000	7.625	0.375
* DK1-7.250	7.250	7.875	0.375
* DK1-7.500	7.500	8.125	0.375
* DK1-7.750	7.750	8.375	0.375
* DK1-8.000	8.000	8.625	0.375

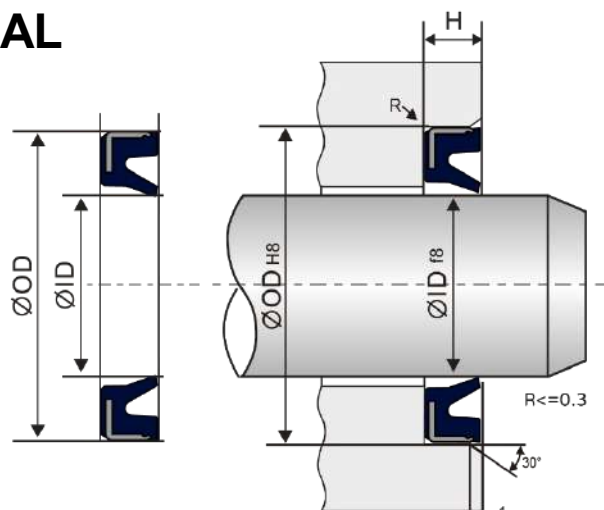
DKIY WIPER SEAL



APPLICATION	
MATERIAL	PU
TEMP.	-31°F~230°F
SPEED	3.2 ft/s

ITEM	ID	OD	h
DKIY-1.500	1.500	2.250	0.433
DKIY-1.750	1.750	2.438	0.433
DKIY-1.875	1.875	2.563	0.433
DKIY-2.000	2.000	2.688	0.433
DKIY-2.125	2.125	2.875	0.433
DKIY-2.250	2.250	3.000	0.433
DKIY-2.375	2.375	3.125	0.433
DKIY-2.500	2.500	3.250	0.433
* DKIY-2.500	2.500	3.313	0.433
DKIY-2.625	2.625	3.375	0.433
DKIY-2.750	2.750	3.750	0.555
DKIY-3.000	3.000	4.000	0.555
DKIY-3.250	3.250	4.250	0.555
DKIY-3.500	3.500	4.500	0.555
DKIY-3.750	3.750	4.750	0.555
DKIY-4.000	4.000	5.000	0.555
DKIY-4.250	4.250	5.250	0.555
DKIY-4.500	4.500	5.500	0.555
DKIY-4.750	4.750	5.750	0.555
DKIY-5.000	5.000	6.000	0.555
DKIY-5.250	5.250	6.250	0.555
DKIY-5.500	5.500	6.500	0.555
* DKIY-5.500	5.500	6.500	0.555
DKIY-5.750	5.750	6.750	0.555
DKIY-6.000	6.000	7.000	0.555
DKIY-6.500	6.500	7.500	0.555
DKIY-6.750	6.750	7.750	0.555
DKIY-7.000	7.000	8.000	0.555
DKIY-8.000	8.000	9.000	0.555

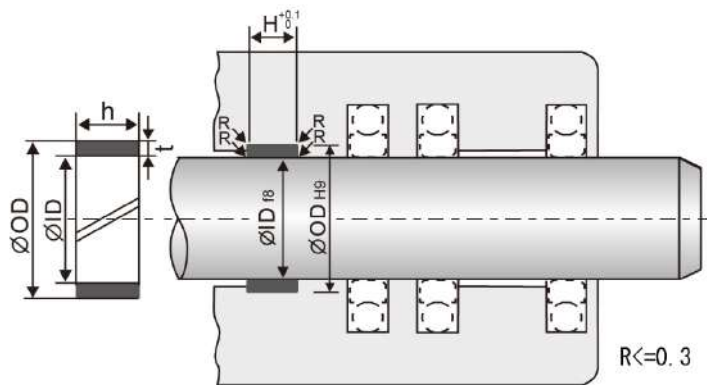
DWC WIPER SEAL



APPLICATION	
MATERIAL	PU+STEEL
TEMP.	-31°F~230°F
SPEED	3.2ft/s

ITEM	ID	OD	H
* DWC-0.500	0.500	1.000	0.25
DWC-1.000	1.000	1.437	0.250
* DWC-0.625	0.625	1.125	0.312
* DWC-0.750	0.750	1.250	0.312
* DWC-0.875	0.875	1.375	0.312
* DWC-1.000	1.000	1.500	0.312
* DWC-1.125	1.125	1.625	0.312
* DWC-1.250	1.250	1.750	0.312
* DWC-1.375	1.375	1.875	0.312
* DWC-1.500	1.500	2.000	0.312
* DWC-1.625	1.625	2.125	0.312
* DWC-1.750	1.750	2.250	0.312
* DWC-1.875	1.875	2.375	0.312
* DWC-2.000	2.000	2.500	0.312
* DWC-2.125	2.125	2.625	0.312
* DWC-2.250	2.250	2.750	0.312
* DWC-2.375	2.375	2.875	0.312
* DWC-2.500	2.500	3.000	0.312
* DWC-2.625	2.625	3.125	0.312
* DWC-2.750	2.750	3.250	0.312
* DWC-3.000	3.000	3.500	0.312
* DWC-3.250	3.250	3.875	0.312
* DWC-3.500	3.500	4.125	0.312
* DWC-3.750	3.750	4.375	0.312
* DWC-4.000	4.000	4.625	0.312
* DWC-4.250	4.250	4.875	0.312
* DWC-4.500	4.500	5.125	0.312
DWC-5.000	5.000	5.625	0.312
DWC-7.000	7.000	7.750	0.312
DWC-2.125	2.125	2.875	0.375
* DWC-4.500	3.437	4.500	0.437

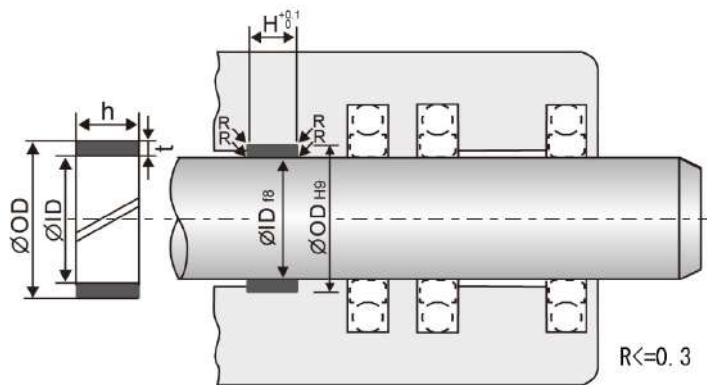
WRNF WEAR RING FOR ROD



APPLICATION	
MATERIAL	NY+FIBER
TEMP.	-58°F~248°F
SPEED	15 ft/s

ITEM	ID	OD	h	t	ITEM	ID	OD	h	t
WRNF	1.125	1.240	1.000	0.0575	WRNF	2.875	3.000	1.250	0.0625
* WRNF	1.875	1.996	0.728	0.0605	WRNF	2.250	2.375	1.500	0.0625
* WRNF	2.125	2.246	0.728	0.0605	WRNF	2.500	2.625	1.500	0.0625
* WRNF	2.625	2.746	0.984	0.0605	WRNF	2.500	2.625	1.690	0.0625
WRNF	0.625	0.750	0.250	0.0625	WRNF	1.375	1.530	0.750	0.0775
WRNF	0.750	0.875	0.250	0.0625	WRNF	1.000	1.157	0.500	0.0785
WRNF	1.375	1.500	0.312	0.0625	WRNF	1.500	1.657	0.500	0.0785
WRNF	1.875	2.000	0.312	0.0625	WRNF	1.250	1.407	0.750	0.0785
WRNF	0.625	0.750	0.375	0.0625	WRNF	1.500	1.657	0.750	0.0785
WRNF	0.750	0.875	0.375	0.0625	WRNF	1.250	1.407	1.000	0.0785
WRNF	1.000	1.125	0.375	0.0625	WRNF	2.000	2.160	1.380	0.08
WRNF	1.125	1.250	0.375	0.0625	WRNF	1.000	1.187	0.375	0.0935
WRNF	1.250	1.375	0.375	0.0625	WRNF	1.500	1.688	0.500	0.094
WRNF	1.500	1.625	0.375	0.0625	WRNF	3.500	3.700	1.870	0.1
WRNF	0.750	0.875	0.500	0.0625	WRNF	1.250	1.500	0.250	0.125
WRNF	0.875	1.000	0.500	0.0625	WRNF	2.000	2.250	0.250	0.125
WRNF	1.000	1.125	0.500	0.0625	WRNF	3.000	3.250	0.250	0.125
WRNF	1.125	1.250	0.500	0.0625	WRNF	1.000	1.250	0.375	0.125
WRNF	1.250	1.375	0.500	0.0625	WRNF	1.125	1.375	0.375	0.125
WRNF	1.500	1.625	0.500	0.0625	WRNF	1.250	1.500	0.375	0.125
WRNF	1.875	2.000	0.500	0.0625	WRNF	1.500	1.750	0.375	0.125
WRNF	0.750	0.875	0.750	0.0625	WRNF	2.250	2.500	0.375	0.125
WRNF	2.875	3.000	0.750	0.0625	WRNF	2.500	2.750	0.375	0.125
WRNF	1.500	1.625	0.830	0.0625	WRNF	4.750	5.000	0.375	0.125
WRNF	2.250	2.375	0.980	0.0625	WRNF	1.000	1.250	0.500	0.125
WRNF	1.250	1.375	1.000	0.0625	WRNF	1.125	1.375	0.500	0.125
WRNF	1.375	1.500	1.000	0.0625	WRNF	1.250	1.500	0.500	0.125
WRNF	1.500	1.625	1.000	0.0625	WRNF	1.500	1.750	0.500	0.125
WRNF	1.750	1.875	1.000	0.0625	WRNF	1.750	2.000	0.500	0.125
WRNF	1.875	2.000	1.000	0.0625	WRNF	2.000	2.250	0.500	0.125
WRNF	2.000	2.125	1.000	0.0625	WRNF	2.250	2.500	0.500	0.125
WRNF	2.375	2.500	1.000	0.0625	WRNF	2.500	2.750	0.500	0.125
WRNF	2.500	2.625	1.000	0.0625	WRNF	2.750	3.000	0.500	0.125
WRNF	2.625	2.750	1.000	0.0625	WRNF	3.000	3.250	0.500	0.125
WRNF	2.750	2.875	1.000	0.0625	WRNF	3.250	3.500	0.500	0.125
WRNF	2.875	3.000	1.000	0.0625	WRNF	3.500	3.750	0.500	0.125
WRNF	2.750	2.875	1.250	0.0625	WRNF	4.000	4.250	0.500	0.125

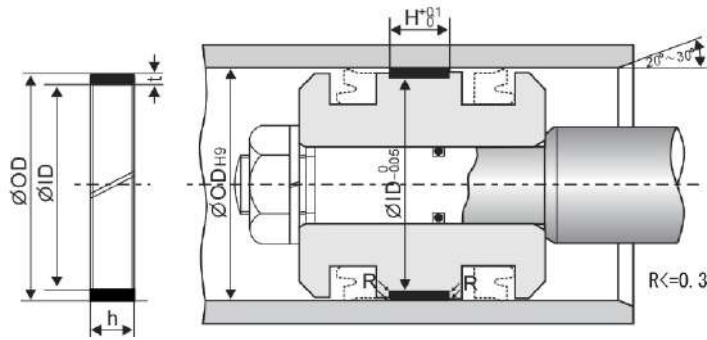
WRNF WEAR RING FOR ROD



APPLICATION	
MATERIAL	NY+FIBER
TEMP.	-58°F~248°F
SPEED	15 ft/s

ITEM	ID	OD	h	t	ITEM	ID	OD	h	t
WRNF	5.500	5.750	0.500	0.125	WRNF	2.000	2.250	1.000	0.125
WRNF	1.500	1.750	0.625	0.125	WRNF	2.250	2.500	1.000	0.125
WRNF	2.000	2.250	0.625	0.125	WRNF	2.500	2.750	1.000	0.125
WRNF	2.250	2.500	0.625	0.125	WRNF	3.000	3.250	1.000	0.125
WRNF	2.500	2.750	0.625	0.125	WRNF	3.500	3.750	1.000	0.125
WRNF	3.000	3.250	0.625	0.125	WRNF	4.000	4.250	1.000	0.125
* WRNF	3.500	3.750	0.625	0.125	WRNF	5.000	5.250	1.000	0.125
WRNF	4.000	4.250	0.625	0.125	WRNF	8.000	8.250	1.000	0.125
* WRNF	4.250	4.500	0.625	0.125	WRNF	10.000	10.250	1.000	0.125
WRNF	7.250	7.500	0.625	0.125	WRNF	12.000	12.250	1.000	0.125
WRNF	1.250	1.500	0.750	0.125	WRNF	2.000	2.250	1.250	0.125
WRNF	1.500	1.750	0.750	0.125	WRNF	2.500	2.750	1.250	0.125
WRNF	1.750	2.000	0.750	0.125	WRNF	3.500	3.750	1.250	0.125
WRNF	2.000	2.250	0.750	0.125	WRNF	2.250	2.500	1.500	0.125
WRNF	2.250	2.500	0.750	0.125	WRNF	2.500	2.750	1.500	0.125
WRNF	2.500	2.750	0.750	0.125	WRNF	2.750	3.000	1.500	0.125
* WRNF	2.750	3.000	0.750	0.125	WRNF	3.000	3.250	1.500	0.125
WRNF	3.000	3.250	0.750	0.125	WRNF	3.250	3.500	1.500	0.125
WRNF	3.375	3.625	0.750	0.125	WRNF	2.500	2.750	2.000	0.125
WRNF	3.500	3.750	0.750	0.125	WRNF	4.000	4.250	2.000	0.125
WRNF	3.750	4.000	0.750	0.125	WRNF	4.500	4.750	2.000	0.125
WRNF	4.000	4.250	0.750	0.125	* WRNF	7.000	7.250	2.000	0.125
WRNF	5.750	6.000	0.750	0.125					

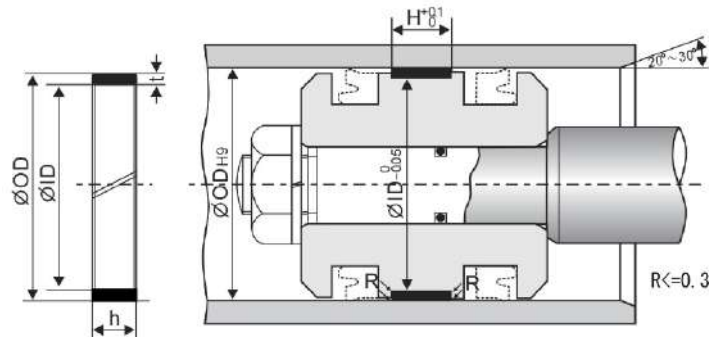
WRNF WEAR RING FOR ROD



APPLICATION	
MATERIAL	NY+FIBER
TEMP.	-58°F~248°F
SPEED	15 ft/s

ITEM	OD	ID	h	t	ITEM	OD	ID	h	t
WRNF	2.625	2.550	0.500	0.0375	* WRNF	1.625	1.500	0.312	0.0625
WRNF	1.500	1.375	0.115	0.0625	* WRNF	1.750	1.625	0.312	0.0625
* WRNF	1.625	1.500	0.115	0.0625	* WRNF	1.875	1.750	0.312	0.0625
WRNF	1.750	1.625	0.115	0.0625	* WRNF	2.375	2.250	0.312	0.0625
* WRNF	1.875	1.750	0.115	0.0625	* WRNF	2.625	2.500	0.312	0.0625
* WRNF	2.000	1.875	0.115	0.0625	WRNF	3.250	3.125	0.312	0.0625
WRNF	1.500	1.375	0.125	0.0625	WRNF	4.000	3.875	0.312	0.0625
WRNF	0.875	0.750	0.160	0.0625	WRNF	0.875	0.750	0.375	0.0625
* WRNF	0.750	0.625	0.187	0.0625	* WRNF	1.000	0.875	0.375	0.0625
* WRNF	1.000	0.875	0.187	0.0625	WRNF	1.125	1.000	0.375	0.0625
* WRNF	1.125	1.000	0.187	0.0625	* WRNF	1.500	1.375	0.375	0.0625
* WRNF	1.250	1.125	0.187	0.0625	* WRNF	1.750	1.625	0.375	0.0625
* WRNF	1.375	1.250	0.187	0.0625	* WRNF	1.875	1.750	0.375	0.0625
* WRNF	1.500	1.375	0.187	0.0625	* WRNF	2.250	2.125	0.375	0.0625
* WRNF	1.625	1.500	0.187	0.0625	* WRNF	2.375	2.250	0.375	0.0625
* WRNF	1.750	1.625	0.187	0.0625	* WRNF	2.500	2.375	0.375	0.0625
* WRNF	1.875	1.750	0.187	0.0625	* WRNF	2.625	2.500	0.375	0.0625
* WRNF	2.375	2.250	0.187	0.0625	* WRNF	0.750	0.625	0.500	0.0625
* WRNF	2.625	2.500	0.187	0.0625	WRNF	0.875	0.750	0.500	0.0625
* WRNF	0.750	0.625	0.250	0.0625	WRNF	1.125	1.000	0.500	0.0625
WRNF	0.875	0.750	0.250	0.0625	WRNF	1.250	1.125	0.500	0.0625
WRNF	1.000	0.875	0.250	0.0625	WRNF	1.500	1.375	0.500	0.0625
* WRNF	1.125	1.000	0.250	0.0625	* WRNF	1.750	1.625	0.500	0.0625
WRNF	1.250	1.125	0.250	0.0625	* WRNF	1.875	1.750	0.500	0.0625
WRNF	1.375	1.250	0.250	0.0625	* WRNF	2.000	1.875	0.500	0.0625
WRNF	1.500	1.375	0.250	0.0625	* WRNF	2.125	2.000	0.500	0.0625
* WRNF	1.625	1.500	0.250	0.0625	* WRNF	2.250	2.125	0.500	0.0625
* WRNF	1.750	1.625	0.250	0.0625	* WRNF	2.375	2.250	0.500	0.0625
* WRNF	1.875	1.750	0.250	0.0625	* WRNF	2.500	2.375	0.500	0.0625
* WRNF	2.000	1.875	0.250	0.0625	WRNF	2.750	2.625	0.500	0.0625
* WRNF	2.375	2.250	0.250	0.0625	* WRNF	2.875	2.750	0.500	0.0625
* WRNF	2.625	2.500	0.250	0.0625	* WRNF	3.000	2.875	0.500	0.0625
WRNF	3.000	2.875	0.250	0.0625	* WRNF	3.125	3.000	0.500	0.0625
* WRNF	0.750	0.625	0.312	0.0625	* WRNF	3.250	3.125	0.500	0.0625
* WRNF	1.000	0.875	0.312	0.0625	* WRNF	3.375	3.250	0.500	0.0625
* WRNF	1.125	1.000	0.312	0.0625	WRNF	8.000	7.875	0.500	0.0625
* WRNF	1.250	1.125	0.312	0.0625	* WRNF	0.750	0.625	0.625	0.0625
* WRNF	1.375	1.250	0.312	0.0625	WRNF	0.937	0.812	0.625	0.0625
* WRNF	1.500	1.375	0.312	0.0625	* WRNF	1.000	0.875	0.625	0.0625

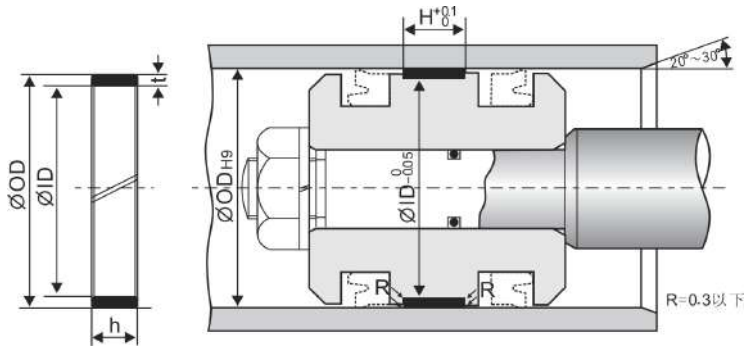
WRNF WEAR RING FOR ROD



APPLICATION	
MATERIAL	NY+FIBER
TEMP.	-58°F~248°F
SPEED	15 ft/s

ITEM	OD	ID	h	t	ITEM	OD	ID	h	t
* WRNF	1.125	1.000	0.625	0.0625	* WRNF	1.750	1.625	0.875	0.0625
* WRNF	1.250	1.125	0.625	0.0625	* WRNF	1.875	1.750	0.875	0.0625
* WRNF	1.375	1.250	0.625	0.0625	* WRNF	2.625	2.500	0.875	0.0625
WRNF	1.500	1.375	0.625	0.0625	WRNF	2.375	2.250	0.980	0.0625
WRNF	1.625	1.500	0.625	0.0625	* WRNF	0.750	0.625	1.000	0.0625
* WRNF	1.750	1.625	0.625	0.0625	* WRNF	1.000	0.875	1.000	0.0625
* WRNF	1.875	1.750	0.625	0.0625	* WRNF	1.125	1.000	1.000	0.0625
* WRNF	2.375	2.250	0.625	0.0625	* WRNF	1.250	1.125	1.000	0.0625
* WRNF	2.625	2.500	0.625	0.0625	* WRNF	1.375	1.250	1.000	0.0625
* WRNF	0.750	0.625	0.750	0.0625	* WRNF	1.500	1.375	1.000	0.0625
* WRNF	1.000	0.875	0.750	0.0625	* WRNF	1.750	1.625	1.000	0.0625
* WRNF	1.125	1.000	0.750	0.0625	WRNF	2.000	1.875	1.000	0.0625
WRNF	1.250	1.125	0.750	0.0625	* WRNF	2.250	2.125	1.000	0.0625
WRNF	1.375	1.250	0.750	0.0625	WRNF	2.375	2.250	1.000	0.0625
WRNF	1.500	1.375	0.750	0.0625	* WRNF	2.500	2.375	1.000	0.0625
* WRNF	1.625	1.500	0.750	0.0625	WRNF	2.625	2.500	1.000	0.0625
* WRNF	1.750	1.625	0.750	0.0625	WRNF	2.750	2.625	1.000	0.0625
* WRNF	1.875	1.750	0.750	0.0625	* WRNF	2.875	2.750	1.000	0.0625
WRNF	2.000	1.875	0.750	0.0625	* WRNF	3.000	2.875	1.000	0.0625
WRNF	2.125	2.000	0.750	0.0625	WRNF	3.125	3.000	1.000	0.0625
* WRNF	2.250	2.125	0.750	0.0625	* WRNF	3.250	3.125	1.000	0.0625
* WRNF	2.375	2.250	0.750	0.0625	* WRNF	3.375	3.250	1.000	0.0625
* WRNF	2.500	2.375	0.750	0.0625	* WRNF	3.500	3.375	1.000	0.0625
WRNF	2.625	2.500	0.750	0.0625	* WRNF	0.750	0.625	1.250	0.0625
* WRNF	2.750	2.625	0.750	0.0625	* WRNF	1.000	0.875	1.250	0.0625
* WRNF	2.875	2.750	0.750	0.0625	* WRNF	1.125	1.000	1.250	0.0625
* WRNF	3.000	2.875	0.750	0.0625	* WRNF	1.250	1.125	1.250	0.0625
* WRNF	3.125	3.000	0.750	0.0625	* WRNF	1.375	1.250	1.250	0.0625
* WRNF	3.250	3.125	0.750	0.0625	* WRNF	1.500	1.375	1.250	0.0625
* WRNF	3.375	3.250	0.750	0.0625	* WRNF	1.625	1.500	1.250	0.0625
* WRNF	3.500	3.375	0.750	0.0625	* WRNF	1.750	1.625	1.250	0.0625
WRNF	1.875	1.750	0.812	0.0625	* WRNF	1.875	1.750	1.250	0.0625
* WRNF	0.750	0.625	0.875	0.0625	* WRNF	2.375	2.250	1.250	0.0625
* WRNF	1.000	0.875	0.875	0.0625	WRNF	2.500	2.375	1.250	0.0625
* WRNF	1.125	1.000	0.875	0.0625	* WRNF	2.625	2.500	1.250	0.0625
* WRNF	1.250	1.125	0.875	0.0625	WRNF	3.125	3.000	1.250	0.0625
* WRNF	1.375	1.250	0.875	0.0625	WRNF	2.375	2.250	1.440	0.0625
* WRNF	1.500	1.375	0.875	0.0625	WRNF	3.125	3.000	1.480	0.0625
* WRNF	1.625	1.500	0.875	0.0625	WRNF	2.500	2.375	1.500	0.0625

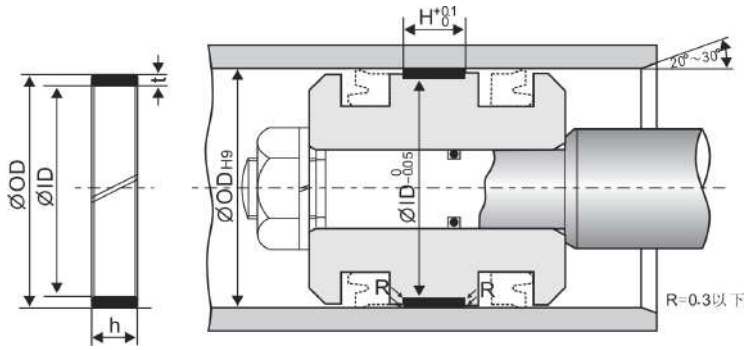
WRNF WEAR RING FOR PISTON



APPLICATION	
MATERIAL	NY+FIBER
TEMP.	-58°F~248°F
SPEED	15 ft/s

ITEM	OD	ID	h	t	ITEM	OD	ID	h	t
WRNF	1.500	1.250	0.125	0.125	* WRNF	2.625	2.375	0.187	0.125
WRNF	2.500	2.250	0.125	0.125	* WRNF	2.750	2.500	0.187	0.125
WRNF	4.000	3.750	0.156	0.125	* WRNF	2.875	2.625	0.187	0.125
* WRNF	0.875	0.625	0.165	0.125	* WRNF	3.000	2.750	0.187	0.125
* WRNF	1.000	0.750	0.165	0.125	* WRNF	3.125	2.875	0.187	0.125
* WRNF	1.125	0.875	0.165	0.125	* WRNF	3.250	3.000	0.187	0.125
* WRNF	1.250	1.000	0.165	0.125	* WRNF	3.375	3.125	0.187	0.125
* WRNF	1.375	1.125	0.165	0.125	* WRNF	3.500	3.250	0.187	0.125
WRNF	1.500	1.250	0.165	0.125	* WRNF	3.625	3.375	0.187	0.125
* WRNF	1.625	1.375	0.165	0.125	* WRNF	3.750	3.500	0.187	0.125
* WRNF	1.750	1.500	0.165	0.125	* WRNF	3.875	3.625	0.187	0.125
* WRNF	1.875	1.625	0.165	0.125	* WRNF	4.000	3.750	0.187	0.125
* WRNF	2.000	1.750	0.165	0.125	* WRNF	4.125	3.875	0.187	0.125
* WRNF	2.125	1.875	0.165	0.125	* WRNF	4.250	4.000	0.187	0.125
WRNF	2.250	2.000	0.165	0.125	* WRNF	4.375	4.125	0.187	0.125
* WRNF	2.375	2.125	0.165	0.125	* WRNF	4.500	4.250	0.187	0.125
* WRNF	2.500	2.250	0.165	0.125	* WRNF	4.625	4.375	0.187	0.125
* WRNF	2.625	2.375	0.165	0.125	* WRNF	4.750	4.500	0.187	0.125
* WRNF	2.750	2.500	0.165	0.125	* WRNF	4.875	4.625	0.187	0.125
* WRNF	2.875	2.625	0.165	0.125	* WRNF	5.000	4.750	0.187	0.125
* WRNF	3.000	2.750	0.165	0.125	* WRNF	5.125	4.875	0.187	0.125
* WRNF	3.125	2.875	0.165	0.125	* WRNF	5.250	5.000	0.187	0.125
* WRNF	3.250	3.000	0.165	0.125	* WRNF	5.500	5.250	0.187	0.125
* WRNF	3.375	3.125	0.165	0.125	* WRNF	5.625	5.375	0.187	0.125
* WRNF	3.500	3.250	0.165	0.125	* WRNF	5.750	5.500	0.187	0.125
* WRNF	0.875	0.625	0.187	0.125	* WRNF	5.875	5.625	0.187	0.125
WRNF	1.125	0.875	0.187	0.125	WRNF	6.000	5.750	0.187	0.125
* WRNF	1.250	1.000	0.187	0.125	* WRNF	6.250	6.000	0.187	0.125
* WRNF	1.375	1.125	0.187	0.125	* WRNF	6.500	6.250	0.187	0.125
WRNF	1.500	1.250	0.187	0.125	* WRNF	6.750	6.500	0.187	0.125
* WRNF	1.625	1.375	0.187	0.125	* WRNF	7.000	6.750	0.187	0.125
WRNF	1.750	1.500	0.187	0.125	* WRNF	7.250	7.000	0.187	0.125
* WRNF	1.875	1.625	0.187	0.125	* WRNF	7.500	7.250	0.187	0.125
WRNF	2.000	1.750	0.187	0.125	* WRNF	7.750	7.500	0.187	0.125
* WRNF	2.125	1.875	0.187	0.125	WRNF	8.000	7.750	0.187	0.125
* WRNF	2.250	2.000	0.187	0.125	* WRNF	8.250	8.000	0.187	0.125
* WRNF	2.375	2.125	0.187	0.125	* WRNF	8.500	8.250	0.187	0.125
WRNF	2.500	2.250	0.187	0.125	* WRNF	8.750	8.500	0.187	0.125

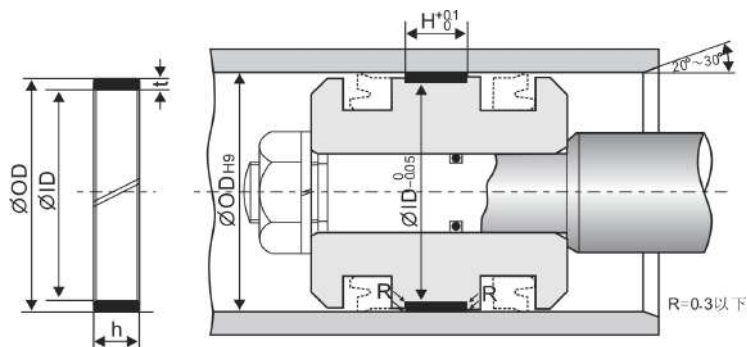
WRNF WEAR RING FOR PISTON



APPLICATION	
MATERIAL	NY+FIBER
TEMP.	-58°F~248°F
SPEED	15 ft/s

ITEM	OD	ID	h	t	ITEM	OD	ID	h	t
* WRNF	9.000	8.750	0.187	0.125	WRNF	4.250	4.000	0.250	0.125
* WRNF	9.125	8.875	0.187	0.125	* WRNF	4.375	4.125	0.250	0.125
* WRNF	9.250	9.000	0.187	0.125	WRNF	4.500	4.250	0.250	0.125
* WRNF	9.500	9.250	0.187	0.125	* WRNF	4.625	4.375	0.250	0.125
* WRNF	9.750	9.500	0.187	0.125	WRNF	4.750	4.500	0.250	0.125
* WRNF	10.000	9.750	0.187	0.125	* WRNF	4.875	4.625	0.250	0.125
* WRNF	10.250	10.000	0.187	0.125	WRNF	5.000	4.750	0.250	0.125
* WRNF	10.500	10.250	0.187	0.125	* WRNF	5.125	4.875	0.250	0.125
* WRNF	11.000	10.750	0.187	0.125	* WRNF	5.250	5.000	0.250	0.125
* WRNF	11.500	11.250	0.187	0.125	* WRNF	5.500	5.250	0.250	0.125
* WRNF	12.000	11.750	0.187	0.125	* WRNF	5.625	5.375	0.250	0.125
* WRNF	0.875	0.625	0.250	0.125	* WRNF	5.750	5.500	0.250	0.125
* WRNF	1.125	0.875	0.250	0.125	* WRNF	5.875	5.625	0.250	0.125
* WRNF	1.250	1.000	0.250	0.125	WRNF	6.000	5.750	0.250	0.125
* WRNF	1.375	1.125	0.250	0.125	* WRNF	6.250	6.000	0.250	0.125
WRNF	1.500	1.250	0.250	0.125	* WRNF	6.500	6.250	0.250	0.125
WRNF	1.625	1.375	0.250	0.125	* WRNF	6.750	6.500	0.250	0.125
WRNF	1.750	1.500	0.250	0.125	WRNF	7.000	6.750	0.250	0.125
WRNF	1.875	1.625	0.250	0.125	* WRNF	7.250	7.000	0.250	0.125
WRNF	2.000	1.750	0.250	0.125	* WRNF	7.500	7.250	0.250	0.125
* WRNF	2.125	1.875	0.250	0.125	* WRNF	7.750	7.500	0.250	0.125
WRNF	2.250	2.000	0.250	0.125	* WRNF	8.000	7.750	0.250	0.125
* WRNF	2.375	2.125	0.250	0.125	* WRNF	8.250	8.000	0.250	0.125
WRNF	2.500	2.250	0.250	0.125	* WRNF	8.500	8.250	0.250	0.125
WRNF	2.500	2.250	0.250	0.125	* WRNF	8.750	8.500	0.250	0.125
* WRNF	2.625	2.375	0.250	0.125	* WRNF	9.000	8.750	0.250	0.125
WRNF	2.750	2.500	0.250	0.125	* WRNF	9.125	8.875	0.250	0.125
* WRNF	2.875	2.625	0.250	0.125	* WRNF	9.250	9.000	0.250	0.125
WRNF	3.000	2.750	0.250	0.125	* WRNF	9.500	9.250	0.250	0.125
* WRNF	3.125	2.875	0.250	0.125	* WRNF	9.750	9.500	0.250	0.125
WRNF	3.250	3.000	0.250	0.125	WRNF	10.000	9.750	0.250	0.125
* WRNF	3.375	3.125	0.250	0.125	* WRNF	10.250	10.000	0.250	0.125
WRNF	3.500	3.250	0.250	0.125	* WRNF	10.500	10.250	0.250	0.125
* WRNF	3.625	3.375	0.250	0.125	* WRNF	10.750	10.500	0.250	0.125
WRNF	3.750	3.500	0.250	0.125	* WRNF	11.000	10.750	0.250	0.125
WRNF	3.875	3.625	0.250	0.125	* WRNF	11.250	11.000	0.250	0.125
WRNF	4.000	3.750	0.250	0.125	* WRNF	11.500	11.250	0.250	0.125
* WRNF	4.125	3.875	0.250	0.125	* WRNF	11.750	11.500	0.250	0.125

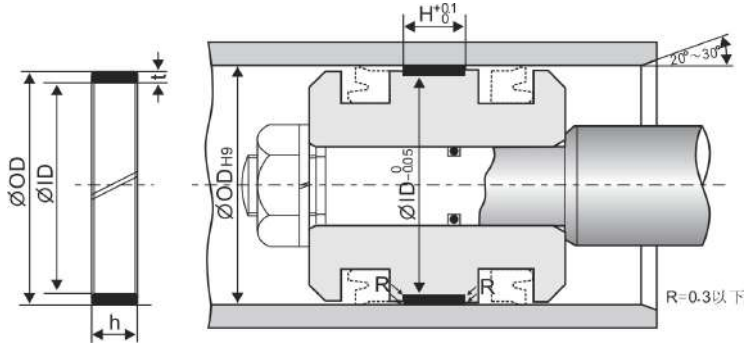
WRNF WEAR RING FOR PISTON



APPLICATION	
MATERIAL	NY+FIBER
TEMP.	-58°F~248°F
SPEED	15 ft/s

ITEM	OD	ID	h	t	ITEM	OD	ID	h	t
* WRNF	12.000	11.750	0.250	0.125	* WRNF	5.750	5.500	0.312	0.125
* WRNF	0.875	0.625	0.312	0.125	* WRNF	5.875	5.625	0.312	0.125
* WRNF	1.125	0.875	0.312	0.125	* WRNF	6.000	5.750	0.312	0.125
* WRNF	1.250	1.000	0.312	0.125	* WRNF	6.250	6.000	0.312	0.125
* WRNF	1.500	1.250	0.312	0.125	* WRNF	6.500	6.250	0.312	0.125
* WRNF	1.625	1.375	0.312	0.125	* WRNF	6.750	6.500	0.312	0.125
* WRNF	1.750	1.500	0.312	0.125	* WRNF	7.000	6.750	0.312	0.125
* WRNF	1.875	1.625	0.312	0.125	* WRNF	7.250	7.000	0.312	0.125
WRNF	2.000	1.750	0.312	0.125	* WRNF	7.500	7.250	0.312	0.125
* WRNF	2.125	1.875	0.312	0.125	* WRNF	7.750	7.500	0.312	0.125
* WRNF	2.250	2.000	0.312	0.125	* WRNF	8.000	7.750	0.312	0.125
* WRNF	2.375	2.125	0.312	0.125	* WRNF	8.250	8.000	0.312	0.125
WRNF	2.500	2.250	0.312	0.125	* WRNF	8.500	8.250	0.312	0.125
* WRNF	2.625	2.375	0.312	0.125	* WRNF	8.750	8.500	0.312	0.125
* WRNF	2.750	2.500	0.312	0.125	* WRNF	9.000	8.750	0.312	0.125
* WRNF	2.875	2.625	0.312	0.125	* WRNF	9.125	8.875	0.312	0.125
WRNF	3.000	2.750	0.312	0.125	* WRNF	9.250	9.000	0.312	0.125
* WRNF	3.125	2.875	0.312	0.125	* WRNF	9.500	9.250	0.312	0.125
* WRNF	3.250	3.000	0.312	0.125	* WRNF	9.750	9.500	0.312	0.125
* WRNF	3.375	3.125	0.312	0.125	* WRNF	10.000	9.750	0.312	0.125
WRNF	3.500	3.250	0.312	0.125	* WRNF	10.250	10.000	0.312	0.125
* WRNF	3.625	3.375	0.312	0.125	* WRNF	10.500	10.250	0.312	0.125
WRNF	3.750	3.500	0.312	0.125	* WRNF	11.000	10.750	0.312	0.125
* WRNF	3.875	3.625	0.312	0.125	* WRNF	11.500	11.250	0.312	0.125
WRNF	4.000	3.750	0.312	0.125	* WRNF	12.000	11.750	0.312	0.125
* WRNF	4.125	3.875	0.312	0.125	* WRNF	0.875	0.625	0.375	0.125
WRNF	4.250	4.000	0.312	0.125	WRNF	1.000	0.750	0.375	0.125
* WRNF	4.375	4.125	0.312	0.125	WRNF	1.125	0.875	0.375	0.125
WRNF	4.500	4.250	0.312	0.125	WRNF	1.250	1.000	0.375	0.125
* WRNF	4.625	4.375	0.312	0.125	WRNF	1.375	1.125	0.375	0.125
* WRNF	4.750	4.500	0.312	0.125	WRNF	1.500	1.250	0.375	0.125
* WRNF	4.875	4.625	0.312	0.125	WRNF	1.625	1.375	0.375	0.125
* WRNF	5.000	4.750	0.312	0.125	WRNF	1.750	1.500	0.375	0.125
* WRNF	5.125	4.875	0.312	0.125	WRNF	1.875	1.625	0.375	0.125
* WRNF	5.250	5.000	0.312	0.125	WRNF	2.000	1.750	0.375	0.125
* WRNF	5.375	5.125	0.312	0.125	* WRNF	2.125	1.875	0.375	0.125
* WRNF	5.500	5.250	0.312	0.125	WRNF	2.250	2.000	0.375	0.125
* WRNF	5.625	5.375	0.312	0.125	* WRNF	2.375	2.125	0.375	0.125

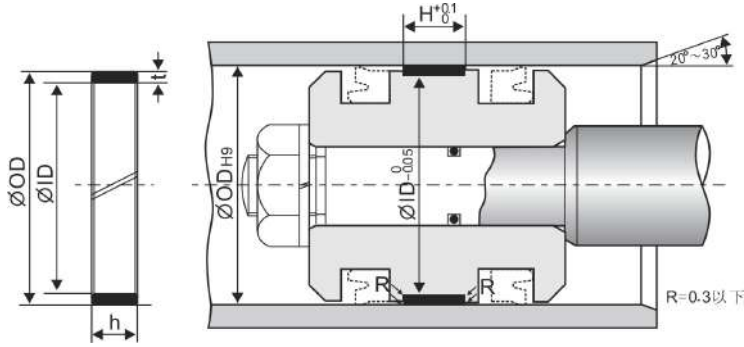
WRNF WEAR RING FOR PISTON



APPLICATION	
MATERIAL	NY+FIBER
TEMP.	-58°F~248°F
SPEED	15 ft/s

ITEM	OD	ID	h	t	ITEM	OD	ID	h	t
WRNF	2.500	2.250	0.375	0.125	* WRNF	8.500	8.250	0.375	0.125
* WRNF	2.625	2.375	0.375	0.125	* WRNF	8.750	8.500	0.375	0.125
WRNF	2.750	2.500	0.375	0.125	* WRNF	9.000	8.750	0.375	0.125
* WRNF	2.875	2.625	0.375	0.125	* WRNF	9.125	8.875	0.375	0.125
WRNF	3.000	2.750	0.375	0.125	* WRNF	9.250	9.000	0.375	0.125
* WRNF	3.125	2.875	0.375	0.125	* WRNF	9.500	9.250	0.375	0.125
WRNF	3.250	3.000	0.375	0.125	* WRNF	9.750	9.500	0.375	0.125
* WRNF	3.375	3.125	0.375	0.125	* WRNF	10.000	9.750	0.375	0.125
WRNF	3.500	3.250	0.375	0.125	* WRNF	10.250	10.000	0.375	0.125
* WRNF	3.625	3.375	0.375	0.125	* WRNF	10.500	10.250	0.375	0.125
WRNF	3.750	3.500	0.375	0.125	* WRNF	10.750	10.500	0.375	0.125
* WRNF	3.875	3.625	0.375	0.125	* WRNF	11.000	10.750	0.375	0.125
WRNF	4.000	3.750	0.375	0.125	* WRNF	11.250	11.000	0.375	0.125
* WRNF	4.125	3.875	0.375	0.125	* WRNF	11.500	11.250	0.375	0.125
WRNF	4.250	4.000	0.375	0.125	* WRNF	11.750	11.500	0.375	0.125
* WRNF	4.375	4.125	0.375	0.125	* WRNF	12.000	11.750	0.375	0.125
WRNF	4.500	4.250	0.375	0.125	WRNF	4.500	4.250	0.385	0.125
* WRNF	4.625	4.375	0.375	0.125	WRNF	1.250	1.000	0.437	0.125
WRNF	4.750	4.500	0.375	0.125	WRNF	2.750	2.500	0.437	0.125
* WRNF	4.875	4.625	0.375	0.125	WRNF	1.000	0.750	0.500	0.125
WRNF	5.000	4.750	0.375	0.125	* WRNF	1.125	0.875	0.500	0.125
* WRNF	5.125	4.875	0.375	0.125	WRNF	1.250	1.000	0.500	0.125
* WRNF	5.250	5.000	0.375	0.125	WRNF	1.375	1.125	0.500	0.125
* WRNF	5.375	5.125	0.375	0.125	WRNF	1.500	1.250	0.500	0.125
WRNF	5.500	5.250	0.375	0.125	WRNF	1.625	1.375	0.500	0.125
* WRNF	5.625	5.375	0.375	0.125	WRNF	1.750	1.500	0.500	0.125
WRNF	5.750	5.500	0.375	0.125	WRNF	1.875	1.625	0.500	0.125
* WRNF	5.875	5.625	0.375	0.125	WRNF	2.000	1.750	0.500	0.125
WRNF	6.000	5.750	0.375	0.125	WRNF	2.125	1.875	0.500	0.125
WRNF	6.250	6.000	0.375	0.125	WRNF	2.250	2.000	0.500	0.125
* WRNF	6.500	6.250	0.375	0.125	* WRNF	2.375	2.125	0.500	0.125
* WRNF	6.750	6.500	0.375	0.125	WRNF	2.500	2.250	0.500	0.125
WRNF	7.000	6.750	0.375	0.125	WRNF	2.625	2.375	0.500	0.125
* WRNF	7.250	7.000	0.375	0.125	WRNF	2.750	2.500	0.500	0.125
* WRNF	7.500	7.250	0.375	0.125	WRNF	2.875	2.625	0.500	0.125
* WRNF	7.750	7.500	0.375	0.125	WRNF	3.000	2.750	0.500	0.125
* WRNF	8.000	7.750	0.375	0.125	WRNF	3.125	2.875	0.500	0.125
* WRNF	8.250	8.000	0.375	0.125	WRNF	3.250	3.000	0.500	0.125

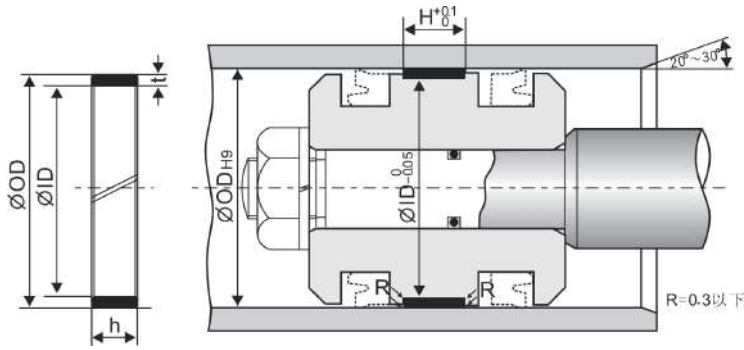
WRNF WEAR RING FOR PISTON



APPLICATION	
MATERIAL	NY+FIBER
TEMP.	-58°F~248°F
SPEED	15 ft/s

ITEM	OD	ID	h	t	ITEM	OD	ID	h	t
* WRNF	3.375	3.125	0.500	0.125	* WRNF	9.750	9.500	0.500	0.125
WRNF	3.500	3.250	0.500	0.125	WRNF	10.000	9.750	0.500	0.125
WRNF	3.625	3.375	0.500	0.125	* WRNF	10.250	10.000	0.500	0.125
WRNF	3.750	3.500	0.500	0.125	WRNF	10.500	10.250	0.500	0.125
WRNF	3.875	3.625	0.500	0.125	* WRNF	10.750	10.500	0.500	0.125
WRNF	4.000	3.750	0.500	0.125	WRNF	11.000	10.750	0.500	0.125
WRNF	4.125	3.875	0.500	0.125	* WRNF	11.250	11.000	0.500	0.125
WRNF	4.250	4.000	0.500	0.125	* WRNF	11.500	11.250	0.500	0.125
* WRNF	4.375	4.125	0.500	0.125	* WRNF	11.750	11.500	0.500	0.125
WRNF	4.500	4.250	0.500	0.125	* WRNF	12.000	11.750	0.500	0.125
* WRNF	4.625	4.375	0.500	0.125	WRNF	1.125	0.875	0.625	0.125
WRNF	4.750	4.500	0.500	0.125	WRNF	1.250	1.000	0.625	0.125
* WRNF	4.875	4.625	0.500	0.125	* WRNF	1.375	1.125	0.625	0.125
WRNF	5.000	4.750	0.500	0.125	WRNF	1.500	1.250	0.625	0.125
* WRNF	5.125	4.875	0.500	0.125	WRNF	1.625	1.375	0.625	0.125
WRNF	5.250	5.000	0.500	0.125	* WRNF	1.750	1.500	0.625	0.125
* WRNF	5.375	5.125	0.500	0.125	* WRNF	1.875	1.625	0.625	0.125
WRNF	5.500	5.250	0.500	0.125	WRNF	2.000	1.750	0.625	0.125
* WRNF	5.625	5.375	0.500	0.125	* WRNF	2.125	1.875	0.625	0.125
WRNF	5.750	5.500	0.500	0.125	WRNF	2.250	2.000	0.625	0.125
* WRNF	5.875	5.625	0.500	0.125	* WRNF	2.375	2.125	0.625	0.125
WRNF	6.000	5.750	0.500	0.125	WRNF	2.500	2.250	0.625	0.125
WRNF	6.250	6.000	0.500	0.125	* WRNF	2.625	2.375	0.625	0.125
WRNF	6.500	6.250	0.500	0.125	WRNF	2.750	2.500	0.625	0.125
WRNF	6.750	6.500	0.500	0.125	* WRNF	2.875	2.625	0.625	0.125
WRNF	7.000	6.750	0.500	0.125	WRNF	3.000	2.750	0.625	0.125
WRNF	7.250	7.000	0.500	0.125	* WRNF	3.125	2.875	0.625	0.125
WRNF	7.500	7.250	0.500	0.125	WRNF	3.250	3.000	0.625	0.125
WRNF	7.750	7.500	0.500	0.125	* WRNF	3.375	3.125	0.625	0.125
WRNF	8.000	7.750	0.500	0.125	WRNF	3.500	3.250	0.625	0.125
* WRNF	8.250	8.000	0.500	0.125	* WRNF	3.550	3.300	0.625	0.125
* WRNF	8.375	8.125	0.500	0.125	* WRNF	3.625	3.375	0.625	0.125
WRNF	8.500	8.250	0.500	0.125	WRNF	3.750	3.500	0.625	0.125
* WRNF	8.750	8.500	0.500	0.125	WRNF	3.875	3.625	0.625	0.125
* WRNF	9.000	8.750	0.500	0.125	WRNF	4.000	3.750	0.625	0.125
* WRNF	9.125	8.875	0.500	0.125	* WRNF	4.125	3.875	0.625	0.125
* WRNF	9.250	9.000	0.500	0.125	WRNF	4.250	4.000	0.625	0.125
WRNF	9.500	9.250	0.500	0.125	* WRNF	4.375	4.125	0.625	0.125

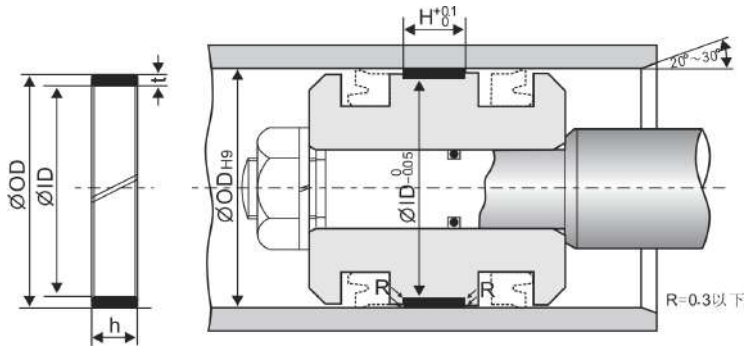
WRNF WEAR RING FOR PISTON



APPLICATION	
MATERIAL	NY+FIBER
TEMP.	-58°F~248°F
SPEED	15 ft/s

ITEM	OD	ID	h	t	ITEM	OD	ID	h	t
WRNF	4.500	4.250	0.625	0.125	* WRNF	12.000	11.750	0.625	0.125
* WRNF	4.625	4.375	0.625	0.125	* WRNF	1.125	0.875	0.750	0.125
WRNF	4.750	4.500	0.625	0.125	WRNF	1.250	1.000	0.750	0.125
* WRNF	4.875	4.625	0.625	0.125	* WRNF	1.375	1.125	0.750	0.125
WRNF	5.000	4.750	0.625	0.125	* WRNF	1.500	1.250	0.750	0.125
* WRNF	5.125	4.875	0.625	0.125	* WRNF	1.625	1.375	0.750	0.125
WRNF	5.150	4.900	0.625	0.125	WRNF	1.750	1.500	0.750	0.125
WRNF	5.250	5.000	0.625	0.125	* WRNF	1.875	1.625	0.750	0.125
* WRNF	5.375	5.125	0.625	0.125	WRNF	2.000	1.750	0.750	0.125
WRNF	5.500	5.250	0.625	0.125	WRNF	2.125	1.875	0.750	0.125
* WRNF	5.625	5.375	0.625	0.125	WRNF	2.250	2.000	0.750	0.125
WRNF	5.750	5.500	0.625	0.125	WRNF	2.375	2.125	0.750	0.125
WRNF	5.875	5.625	0.625	0.125	WRNF	2.500	2.250	0.750	0.125
WRNF	6.000	5.750	0.625	0.125	WRNF	2.625	2.375	0.750	0.125
WRNF	6.250	6.000	0.625	0.125	WRNF	2.750	2.500	0.750	0.125
WRNF	6.500	6.250	0.625	0.125	* WRNF	2.875	2.625	0.750	0.125
* WRNF	6.750	6.500	0.625	0.125	WRNF	3.000	2.750	0.750	0.125
WRNF	7.000	6.750	0.625	0.125	* WRNF	3.125	2.875	0.750	0.125
WRNF	7.500	7.250	0.625	0.125	WRNF	3.250	3.000	0.750	0.125
* WRNF	7.750	7.500	0.625	0.125	* WRNF	3.375	3.125	0.750	0.125
WRNF	8.000	7.750	0.625	0.125	WRNF	3.500	3.250	0.750	0.125
* WRNF	8.250	8.000	0.625	0.125	WRNF	3.625	3.375	0.750	0.125
* WRNF	8.375	8.125	0.625	0.125	WRNF	3.750	3.500	0.750	0.125
* WRNF	8.500	8.250	0.625	0.125	* WRNF	3.875	3.625	0.750	0.125
* WRNF	8.750	8.500	0.625	0.125	WRNF	4.000	3.750	0.750	0.125
WRNF	9.000	8.750	0.625	0.125	* WRNF	4.125	3.875	0.750	0.125
* WRNF	9.125	8.875	0.625	0.125	WRNF	4.250	4.000	0.750	0.125
* WRNF	9.250	9.000	0.625	0.125	* WRNF	4.375	4.125	0.750	0.125
* WRNF	9.500	9.250	0.625	0.125	WRNF	4.500	4.250	0.750	0.125
* WRNF	9.750	9.500	0.625	0.125	* WRNF	4.625	4.375	0.750	0.125
* WRNF	10.000	9.750	0.625	0.125	WRNF	4.750	4.500	0.750	0.125
* WRNF	10.250	10.000	0.625	0.125	* WRNF	4.875	4.625	0.750	0.125
* WRNF	10.500	10.250	0.625	0.125	WRNF	5.000	4.750	0.750	0.125
* WRNF	10.750	10.500	0.625	0.125	* WRNF	5.125	4.875	0.750	0.125
* WRNF	11.000	10.750	0.625	0.125	WRNF	5.250	5.000	0.750	0.125
* WRNF	11.250	11.000	0.625	0.125	* WRNF	5.375	5.125	0.750	0.125
* WRNF	11.500	11.250	0.625	0.125	WRNF	5.500	5.250	0.750	0.125
* WRNF	11.750	11.500	0.625	0.125	* WRNF	5.625	5.375	0.750	0.125

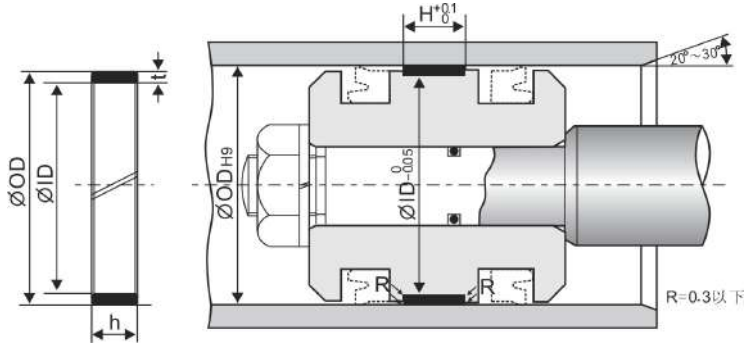
WRNF WEAR RING FOR PISTON



APPLICATION	
MATERIAL	NY+FIBER
TEMP.	-58°F~248°F
SPEED	15 ft/s

ITEM	OD	ID	h	t	ITEM	OD	ID	h	t
WRNF	5.750	5.500	0.750	0.125	* WRNF	2.250	2.000	0.875	0.125
* WRNF	5.875	5.625	0.750	0.125	* WRNF	2.375	2.125	0.875	0.125
WRNF	6.000	5.750	0.750	0.125	* WRNF	2.500	2.250	0.875	0.125
WRNF	6.250	6.000	0.750	0.125	* WRNF	2.625	2.375	0.875	0.125
WRNF	6.500	6.250	0.750	0.125	* WRNF	2.750	2.500	0.875	0.125
* WRNF	6.750	6.500	0.750	0.125	* WRNF	2.875	2.625	0.875	0.125
WRNF	7.000	6.750	0.750	0.125	* WRNF	3.000	2.750	0.875	0.125
* WRNF	7.250	7.000	0.750	0.125	* WRNF	3.125	2.875	0.875	0.125
WRNF	7.500	7.250	0.750	0.125	* WRNF	3.250	3.000	0.875	0.125
* WRNF	7.750	7.500	0.750	0.125	* WRNF	3.375	3.125	0.875	0.125
WRNF	8.000	7.750	0.750	0.125	* WRNF	3.500	3.250	0.875	0.125
* WRNF	8.250	8.000	0.750	0.125	* WRNF	3.625	3.375	0.875	0.125
* WRNF	8.375	8.125	0.750	0.125	* WRNF	3.750	3.500	0.875	0.125
* WRNF	8.500	8.250	0.750	0.125	* WRNF	3.875	3.625	0.875	0.125
* WRNF	8.750	8.500	0.750	0.125	WRNF	4.000	3.750	0.875	0.125
WRNF	9.000	8.750	0.750	0.125	* WRNF	4.125	3.875	0.875	0.125
WRNF	9.125	8.875	0.750	0.125	* WRNF	4.250	4.000	0.875	0.125
* WRNF	9.250	9.000	0.750	0.125	* WRNF	4.375	4.125	0.875	0.125
WRNF	9.500	9.250	0.750	0.125	WRNF	4.500	4.250	0.875	0.125
* WRNF	9.750	9.500	0.750	0.125	* WRNF	4.625	4.375	0.875	0.125
WRNF	10.000	9.750	0.750	0.125	* WRNF	4.750	4.500	0.875	0.125
* WRNF	10.250	10.000	0.750	0.125	* WRNF	4.875	4.625	0.875	0.125
* WRNF	10.500	10.250	0.750	0.125	* WRNF	5.000	4.750	0.875	0.125
* WRNF	10.750	10.500	0.750	0.125	* WRNF	5.125	4.875	0.875	0.125
* WRNF	11.000	10.750	0.750	0.125	* WRNF	5.250	5.000	0.875	0.125
* WRNF	11.250	11.000	0.750	0.125	* WRNF	5.375	5.125	0.875	0.125
WRNF	11.500	11.250	0.750	0.125	* WRNF	5.500	5.250	0.875	0.125
* WRNF	11.750	11.500	0.750	0.125	* WRNF	5.625	5.375	0.875	0.125
* WRNF	12.000	11.750	0.750	0.125	* WRNF	5.750	5.500	0.875	0.125
* WRNF	1.125	0.875	0.875	0.125	* WRNF	5.875	5.625	0.875	0.125
* WRNF	1.250	1.000	0.875	0.125	* WRNF	6.000	5.750	0.875	0.125
* WRNF	1.375	1.125	0.875	0.125	* WRNF	6.250	6.000	0.875	0.125
* WRNF	1.500	1.250	0.875	0.125	* WRNF	6.500	6.250	0.875	0.125
* WRNF	1.625	1.375	0.875	0.125	* WRNF	6.750	6.500	0.875	0.125
* WRNF	1.750	1.500	0.875	0.125	* WRNF	7.000	6.750	0.875	0.125
* WRNF	1.875	1.625	0.875	0.125	* WRNF	7.250	7.000	0.875	0.125
* WRNF	2.000	1.750	0.875	0.125	* WRNF	7.500	7.250	0.875	0.125
* WRNF	2.125	1.875	0.875	0.125	* WRNF	7.750	7.500	0.875	0.125

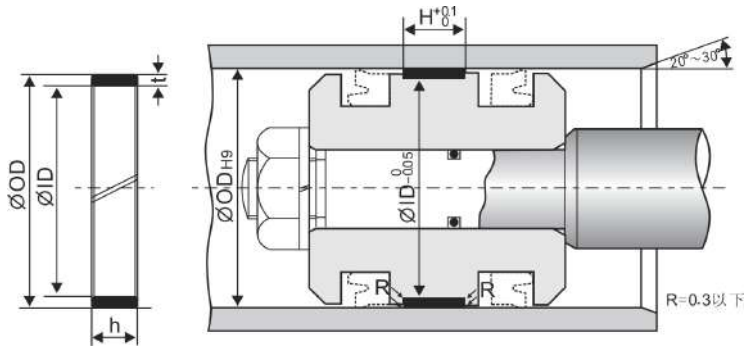
WRNF WEAR RING FOR PISTON



APPLICATION	
MATERIAL	NY+FIBER
TEMP.	-58°F~248°F
SPEED	15 ft/s

ITEM	OD	ID	h	t	ITEM	OD	ID	h	t
* WRNF	8.000	7.750	0.875	0.125	WRNF	3.500	3.250	1.000	0.125
* WRNF	8.250	8.000	0.875	0.125	* WRNF	3.625	3.375	1.000	0.125
* WRNF	8.375	8.125	0.875	0.125	WRNF	3.750	3.500	1.000	0.125
* WRNF	8.500	8.250	0.875	0.125	WRNF	3.875	3.625	1.000	0.125
* WRNF	8.750	8.500	0.875	0.125	WRNF	4.000	3.750	1.000	0.125
* WRNF	9.000	8.750	0.875	0.125	* WRNF	4.125	3.875	1.000	0.125
* WRNF	9.125	8.875	0.875	0.125	WRNF	4.250	4.000	1.000	0.125
* WRNF	9.250	9.000	0.875	0.125	* WRNF	4.375	4.125	1.000	0.125
* WRNF	9.500	9.250	0.875	0.125	WRNF	4.500	4.250	1.000	0.125
* WRNF	9.750	9.500	0.875	0.125	* WRNF	4.625	4.375	1.000	0.125
* WRNF	10.000	9.750	0.875	0.125	WRNF	4.750	4.500	1.000	0.125
* WRNF	10.250	10.000	0.875	0.125	* WRNF	4.875	4.625	1.000	0.125
* WRNF	10.500	10.250	0.875	0.125	WRNF	5.000	4.750	1.000	0.125
* WRNF	10.750	10.500	0.875	0.125	* WRNF	5.125	4.875	1.000	0.125
* WRNF	11.000	10.750	0.875	0.125	WRNF	5.250	5.000	1.000	0.125
* WRNF	11.250	11.000	0.875	0.125	* WRNF	5.375	5.125	1.000	0.125
* WRNF	11.500	11.250	0.875	0.125	WRNF	5.500	5.250	1.000	0.125
* WRNF	11.750	11.500	0.875	0.125	* WRNF	5.625	5.375	1.000	0.125
* WRNF	12.000	11.750	0.875	0.125	WRNF	5.750	5.500	1.000	0.125
* WRNF	1.125	0.875	1.000	0.125	WRNF	5.875	5.625	1.000	0.125
WRNF	1.250	1.000	1.000	0.125	WRNF	6.000	5.750	1.000	0.125
* WRNF	1.375	1.125	1.000	0.125	WRNF	6.250	6.000	1.000	0.125
* WRNF	1.500	1.250	1.000	0.125	WRNF	6.500	6.250	1.000	0.125
* WRNF	1.625	1.375	1.000	0.125	WRNF	6.750	6.500	1.000	0.125
WRNF	1.750	1.500	1.000	0.125	WRNF	7.000	6.750	1.000	0.125
* WRNF	1.875	1.625	1.000	0.125	WRNF	7.250	7.000	1.000	0.125
WRNF	2.000	1.750	1.000	0.125	WRNF	7.500	7.250	1.000	0.125
* WRNF	2.125	1.875	1.000	0.125	* WRNF	7.750	7.500	1.000	0.125
WRNF	2.250	2.000	1.000	0.125	WRNF	8.000	7.750	1.000	0.125
* WRNF	2.375	2.125	1.000	0.125	WRNF	8.250	8.000	1.000	0.125
WRNF	2.500	2.250	1.000	0.125	WRNF	8.375	8.125	1.000	0.125
WRNF	2.625	2.375	1.000	0.125	WRNF	8.500	8.250	1.000	0.125
WRNF	2.750	2.500	1.000	0.125	WRNF	8.750	8.500	1.000	0.125
* WRNF	2.875	2.625	1.000	0.125	WRNF	9.000	8.750	1.000	0.125
WRNF	3.000	2.750	1.000	0.125	* WRNF	9.125	8.875	1.000	0.125
* WRNF	3.125	2.875	1.000	0.125	WRNF	9.250	9.000	1.000	0.125
WRNF	3.250	3.000	1.000	0.125	WRNF	9.500	9.250	1.000	0.125
* WRNF	3.375	3.125	1.000	0.125	* WRNF	9.750	9.500	1.000	0.125

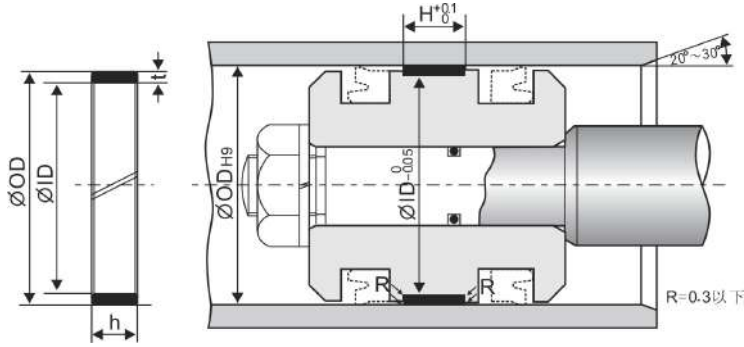
WRNF WEAR RING FOR PISTON



APPLICATION	
MATERIAL	NY+FIBER
TEMP.	-58°F~248°F
SPEED	15 ft/s

ITEM	OD	ID	h	t	ITEM	OD	ID	h	t
WRNF	10.000	9.750	1.000	0.125	* WRNF	4.875	4.625	1.250	0.125
WRNF	10.250	10.000	1.000	0.125	* WRNF	5.000	4.750	1.250	0.125
WRNF	10.500	10.250	1.000	0.125	* WRNF	5.125	4.875	1.250	0.125
* WRNF	10.750	10.500	1.000	0.125	WRNF	5.250	5.000	1.250	0.125
WRNF	11.000	10.750	1.000	0.125	* WRNF	5.375	5.125	1.250	0.125
* WRNF	11.250	11.000	1.000	0.125	WRNF	5.500	5.250	1.250	0.125
* WRNF	11.500	11.250	1.000	0.125	* WRNF	5.625	5.375	1.250	0.125
* WRNF	11.750	11.500	1.000	0.125	* WRNF	5.750	5.500	1.250	0.125
* WRNF	12.000	11.750	1.000	0.125	* WRNF	5.875	5.625	1.250	0.125
WRNF	3.250	3.000	1.125	0.125	WRNF	6.000	5.750	1.250	0.125
WRNF	3.500	3.250	1.125	0.125	* WRNF	6.250	6.000	1.250	0.125
* WRNF	1.125	0.875	1.250	0.125	* WRNF	6.500	6.250	1.250	0.125
* WRNF	1.250	1.000	1.250	0.125	* WRNF	6.750	6.500	1.250	0.125
* WRNF	1.500	1.250	1.250	0.125	WRNF	7.000	6.750	1.250	0.125
* WRNF	1.625	1.375	1.250	0.125	* WRNF	7.250	7.000	1.250	0.125
* WRNF	1.750	1.500	1.250	0.125	* WRNF	7.500	7.250	1.250	0.125
* WRNF	1.875	1.625	1.250	0.125	* WRNF	7.750	7.500	1.250	0.125
* WRNF	2.000	1.750	1.250	0.125	* WRNF	8.000	7.750	1.250	0.125
* WRNF	2.125	1.875	1.250	0.125	WRNF	8.250	8.000	1.250	0.125
* WRNF	2.250	2.000	1.250	0.125	* WRNF	8.375	8.125	1.250	0.125
* WRNF	2.375	2.125	1.250	0.125	* WRNF	8.500	8.250	1.250	0.125
* WRNF	2.500	2.250	1.250	0.125	* WRNF	8.750	8.500	1.250	0.125
* WRNF	2.625	2.375	1.250	0.125	* WRNF	9.000	8.750	1.250	0.125
WRNF	2.750	2.500	1.250	0.125	* WRNF	9.125	8.875	1.250	0.125
* WRNF	2.875	2.625	1.250	0.125	* WRNF	9.250	9.000	1.250	0.125
* WRNF	3.000	2.750	1.250	0.125	* WRNF	9.500	9.250	1.250	0.125
* WRNF	3.125	2.875	1.250	0.125	* WRNF	9.750	9.500	1.250	0.125
WRNF	3.250	3.000	1.250	0.125	WRNF	10.000	9.750	1.250	0.125
* WRNF	3.375	3.125	1.250	0.125	* WRNF	10.250	10.000	1.250	0.125
* WRNF	3.625	3.375	1.250	0.125	* WRNF	10.500	10.250	1.250	0.125
WRNF	3.750	3.500	1.250	0.125	* WRNF	11.000	10.750	1.250	0.125
* WRNF	3.875	3.625	1.250	0.125	* WRNF	11.250	11.000	1.250	0.125
WRNF	4.000	3.750	1.250	0.125	* WRNF	11.500	11.250	1.250	0.125
* WRNF	4.125	3.875	1.250	0.125	* WRNF	12.000	11.750	1.250	0.125
WRNF	4.250	4.000	1.250	0.125	WRNF	4.750	4.500	1.375	0.125
* WRNF	4.375	4.125	1.250	0.125	WRNF	2.500	2.250	1.500	0.125
* WRNF	4.625	4.375	1.250	0.125	WRNF	2.750	2.500	1.500	0.125
WRNF	4.750	4.500	1.250	0.125	* WRNF	2.875	2.625	1.500	0.125

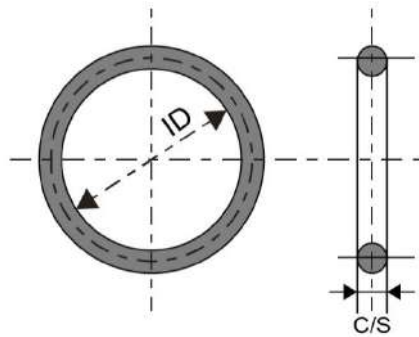
WRNF WEAR RING FOR PISTON



APPLICATION	
MATERIAL	NY+FIBER
TEMP.	-58°F~248°F
SPEED	15 ft/s

ITEM	OD	ID	h	t	ITEM	OD	ID	h	t
WRNF	3.000	2.750	1.500	0.125	WRNF	8.000	7.750	1.500	0.125
* WRNF	3.125	2.875	1.500	0.125	WRNF	8.250	8.000	1.500	0.125
WRNF	3.250	3.000	1.500	0.125	* WRNF	8.375	8.125	1.500	0.125
* WRNF	3.375	3.125	1.500	0.125	* WRNF	8.500	8.250	1.500	0.125
WRNF	3.500	3.250	1.500	0.125	* WRNF	8.750	8.500	1.500	0.125
* WRNF	3.625	3.375	1.500	0.125	WRNF	9.000	8.750	1.500	0.125
WRNF	3.750	3.500	1.500	0.125	* WRNF	9.125	8.875	1.500	0.125
* WRNF	3.875	3.625	1.500	0.125	* WRNF	9.250	9.000	1.500	0.125
WRNF	4.000	3.750	1.500	0.125	WRNF	9.500	9.250	1.500	0.125
* WRNF	4.125	3.875	1.500	0.125	* WRNF	9.750	9.500	1.500	0.125
WRNF	4.250	4.000	1.500	0.125	* WRNF	10.000	9.750	1.500	0.125
* WRNF	4.375	4.125	1.500	0.125	* WRNF	10.250	10.000	1.500	0.125
WRNF	4.500	4.250	1.500	0.125	* WRNF	10.500	10.250	1.500	0.125
* WRNF	4.625	4.375	1.500	0.125	WRNF	11.000	10.750	1.500	0.125
WRNF	4.750	4.500	1.500	0.125	* WRNF	11.250	11.000	1.500	0.125
* WRNF	4.875	4.625	1.500	0.125	* WRNF	11.500	11.250	1.500	0.125
WRNF	5.000	4.750	1.500	0.125	* WRNF	12.000	11.750	1.500	0.125
* WRNF	5.125	4.875	1.500	0.125	WRNF	5.125	4.875	1.562	0.125
WRNF	5.250	5.000	1.500	0.125	WRNF	11.000	10.750	1.625	0.125
* WRNF	5.375	5.125	1.500	0.125	WRNF	5.000	4.750	1.750	0.125
* WRNF	5.500	5.250	1.500	0.125	* WRNF	7.000	6.750	1.750	0.125
* WRNF	5.625	5.375	1.500	0.125	WRNF	9.250	9.000	1.750	0.125
WRNF	5.750	5.500	1.500	0.125	WRNF	10.000	9.750	1.750	0.125
* WRNF	5.875	5.625	1.500	0.125	WRNF	10.500	10.250	1.750	0.125
WRNF	6.000	5.750	1.500	0.125	WRNF	3.750	3.500	2.000	0.125
WRNF	6.250	6.000	1.500	0.125	WRNF	6.250	6.000	2.000	0.125
WRNF	6.500	6.250	1.500	0.125	WRNF	7.000	6.750	2.000	0.125
WRNF	6.750	6.500	1.500	0.125	WRNF	9.000	8.750	2.000	0.125
WRNF	7.000	6.750	1.500	0.125	WRNF	9.500	9.250	2.000	0.125
* WRNF	7.250	7.000	1.500	0.125	WRNF	9.750	9.500	2.000	0.125
* WRNF	7.500	7.250	1.500	0.125	WRNF	10.500	10.250	2.375	0.125
* WRNF	7.750	7.500	1.500	0.125	WRNF	6.000	5.750	2.500	0.125
WRNF	8.000	7.625	2.750	0.188					

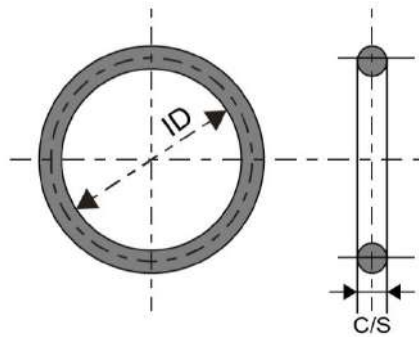
O-RING—AS



MATERIAL	
NBR	FKM
HNBR	SILICONE

ITEM	Actual Size Metric (mm)			Actual Size Inch		Nominal Size		
	ID	C/S	VOL (cm³)	ID	C/S	ID	OD	W
001	0.74	1.02	0.005	.029	.040	1/32	3/32	1/32
001 1/2	1.78	1.02	0.007					
002	1.07	1.27	0.009	.042	.050	3/64	9/64	3/64
003	1.42	1.53	0.017	.056	.060	1/16	3/16	1/16
004	1.78	1.78	0.028	.070	.070	5/64	13/64	1/16
005	2.57	1.78	0.034	.101	.070	3/32	7/32	1/16
006	2.9	1.78	0.037	.114	.070	1/8	1/4	1/16
007	3.68	1.78	0.043	.145	.070	5/32	9/32	1/16
008	4.47	1.78	0.049	.176	.070	3/16	5/16	1/16
009	5.28	1.78	0.055	.208	.070	7/32	11/32	1/16
010	6.07	1.78	0.061	.239	.070	1/4	3/8	1/16
011	7.65	1.78	0.074	.301	.070	5/16	7/16	1/16
012	9.25	1.78	0.086	.364	.070	3/8	1/2	1/16
013	10.82	1.78	0.099	.426	.070	7/16	9/16	1/16
014	12.42	1.78	0.111	.489	.070	1/2	5/8	1/16
015	14	1.78	0.123	.551	.070	9/16	11/16	1/16
016	15.6	1.78	0.136	.614	.070	5/8	3/4	1/16
017	17.17	1.78	0.148	.676	.070	11/16	13/16	1/16
018	18.77	1.78	0.161	.739	.070	3/4	7/8	1/16
019	20.35	1.78	0.173	.801	.070	13/16	15/16	1/16
020	21.95	1.78	0.186	.864	.070	7/8	1	1/16
021	23.52	1.78	0.198	.926	.070	15/16	1-1/16	1/16
022	25.12	1.78	0.210	.989	.070	1	1/8	1/16
023	26.7	1.78	0.223	1.051	.070	1-1/16	1-3/16	1/16
024	28.3	1.78	0.235	1.114	.070	1-1/8	1-1/4	1/16
025	29.87	1.78	0.247	1.176	.070	1-3/16	1-5/16	1/16
026	31.47	1.78	0.260	1.239	.070	1-1/4	1-3/8	1/16
027	33.05	1.78	0.272	1.301	.070	1-5/16	1-7/16	1/16
028	34.65	1.78	0.285	1.364	.070	1-3/8	1-1/2	1/16
029	37.82	1.78	0.310	1.489	.070	1-1/2	1-5/8	1/16
030	41	1.78	0.334	1.614	.070	1-5/8	1-3/4	1/16
031	44.17	1.78	0.359	1.739	.070	1-3/4	1-7/8	1/16
032	47.35	1.78	0.384	1.864	.070	1-7/8	2	1/16
033	50.52	1.78	0.409	1.989	.070	2	2-1/8	1/16
034	53.7	1.78	0.434	2.114	.070	2-1/8	2-1/4	1/16
035	56.87	1.78	0.459	2.239	.070	2-1/4	2-3/8	1/16
036	60.05	1.78	0.483	2.364	.070	2-3/8	2-1/2	1/16
037	63.22	1.78	0.508	2.489	.070	2-1/2	2-5/8	1/16

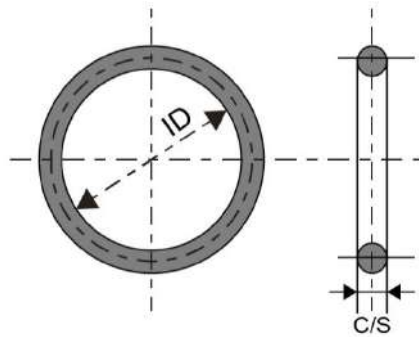
O-RING—AS



MATERIAL	
NBR	FKM
HNBR	SILICONE

ITEM	Actual Size Metric (mm)			Actual Size Inch		Nominal Size		
	ID	C/S	VOL (cm³)	ID	C/S	ID	OD	W
038	66.4	1.78	0.533	2.614	.070	2-5/8	2-3/4	1/16
039	69.57	1.78	0.558	2.739	.070	2-3/4	2-7/8	1/16
040	72.75	1.78	0.583	2.864	.070	2-7/8	3	1/16
041	75.92	1.78	0.607	2.989	.070	3	3-1/8	1/16
042	82.27	1.78	0.657	3.239	.070	3-1/4	3-3/8	1/16
043	88.62	1.78	0.707	3.489	.070	3-1/2	3-5/8	1/16
044	94.97	1.78	0.756	3.739	.070	3-3/4	3-7/8	1/16
045	101.32	1.78	0.806	3.989	.070	4	4-1/8	1/16
046	107.67	1.78	0.856	4.239	.070	4-1/4	4-3/8	1/16
047	114.02	1.78	0.905	4.489	.070	4-1/2	4-5/8	1/16
048	120.37	1.78	0.955	4.739	.070	4-3/4	4-7/8	1/16
049	126.72	1.78	1.005	4.989	.070	5	5-1/8	1/16
050	133.07	1.78	1.054	5.239	.070	5-1/4	5-3/8	1/16
102	1.24	2.62	0.065	.049	.103	1/16	1/4	3/32
103	2.05	2.62	0.079	.081	.103	3/32	9/32	3/32
104	2.84	2.62	0.092	.112	.103	1/8	5/16	3/32
105	3.63	2.62	0.106	.143	.103	5/32	11/32	3/32
106	4.42	2.62	0.119	.174	.103	3/16	3/8	3/32
107	5.23	2.62	0.133	.206	.103	7/32	13/32	3/32
108	6.02	2.62	0.146	.237	.103	1/4	7/16	3/32
109	7.6	2.62	0.173	.299	.103	5/16	1/2	3/32
110	9.19	2.62	0.200	.362	.103	3/8	9/16	3/32
111	10.77	2.62	0.227	.424	.103	7/16	5/8	3/32
112	12.37	2.62	0.254	.487	.103	1/2	11/16	3/32
113	13.95	2.62	0.281	.549	.103	9/16	3/4	3/32
114	15.54	2.62	0.308	.612	.103	5/8	13/16	3/32
115	17.12	2.62	0.334	.674	.103	11/16	7/8	3/32
116	18.72	2.62	0.361	.737	.103	3/4	15/16	3/32
117	20.29	2.62	0.388	.799	.103	13/16	1	3/32
118	21.9	2.62	0.415	.862	.103	7/8	1-1/16	3/32
119	23.47	2.62	0.442	.924	.103	15/16	1-1/8	3/32
120	25.07	2.62	0.469	.987	.103	1	1-3/16	3/32
121	26.65	2.62	0.496	1.049	.103	1-1/16	1-1/4	3/32
122	28.25	2.62	0.523	1.112	.103	1-1/8	1-5/16	3/32
123	29.82	2.62	0.549	1.174	.103	1-3/16	1-3/8	3/32
124	31.42	2.62	0.577	1.237	.103	1-1/4	1-7/16	3/32
125	32.99	2.62	0.603	1.299	.103	1-5/16	1-1/2	3/32
126	34.6	2.62	0.630	1.362	.103	1-3/8	1-9/16	3/32

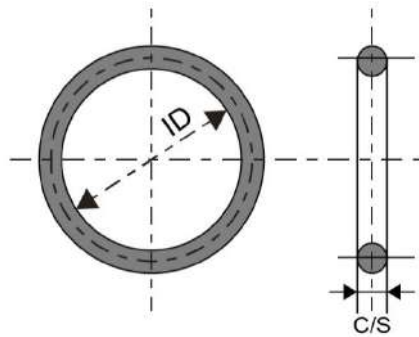
O-RING—AS



MATERIAL	
NBR	FKM
HNBR	SILICONE

ITEM	Actual Size Metric (mm)			Actual Size Inch		Nominal Size		
	ID	C/S	VOL (cm³)	ID	C/S	ID	OD	W
127	36.17	2.62	0.657	1.424	.103	1-7/16	1-5/8	3/32
128	37.77	2.62	0.684	1.487	.103	1-1/12	1-11/16	3/32
129	39.35	2.62	0.711	1.549	.103	1-9/16	1-3/4	3/32
130	40.95	2.62	0.738	1.612	.103	1-5/8	1-13/16	3/32
131	42.52	2.62	0.765	1.674	.103	1-11/16	1-7/8	3/32
132	44.12	2.62	0.792	1.737	.103	1-3/4	1-15/16	3/32
133	45.7	2.62	0.818	1.799	.103	1-13/16	2	3/32
134	47.3	2.62	0.846	1.862	.103	1-7/8	2-1/16	3/32
135	48.9	2.62	0.873	1.925	.103	1-15/16	2-1/8	3/32
136	50.47	2.62	0.899	1.987	.103	2	2-3/16	3/32
137	52.07	2.62	0.926	2.050	.103	2-1/16	2-1/4	3/32
138	53.65	2.62	0.953	2.112	.103	2-1/8	2-5/16	3/32
139	55.25	2.62	0.980	2.175	.103	2-3/16	2-3/8	3/32
140	56.82	2.62	1.007	2.237	.103	2-1/4	2-7/16	3/32
141	58.42	2.62	1.034	2.300	.103	2-5/16	2-1/2	3/32
142	60	2.62	1.061	2.362	.103	2-3/8	2-9/16	3/32
143	61.6	2.62	1.088	2.425	.103	2-7/16	2-5/8	3/32
144	63.17	2.62	1.114	2.487	.103	2-1/2	2-11/16	3/32
145	64.7	2.62	1.140	2.550	.103	2-9/16	2-3/4	3/32
146	66.3	2.62	1.167	2.612	.103	2-5/8	2-13/16	3/32
147	67.9	2.62	1.194	2.675	.103	2-11/16	2-7/8	3/32
148	69.5	2.62	1.222	2.737	.103	2-3/4	2-15/16	3/32
149	71.1	2.62	1.249	2.800	.103	2-13/16	3	3/32
150	72.7	2.62	1.276	2.862	.103	2-7/8	3-1/16	3/32
151	75.87	2.62	1.329	2.987	.103	3	3-3/16	3/32
152	82.22	2.62	1.437	3.237	.103	3-1/4	3-7/16	3/32
153	88.57	2.62	1.545	3.487	.103	3-1/2	3-11/16	3/32
154	94.92	2.62	1.652	3.737	.103	3-3/4	3-15/16	3/32
155	101.2	2.62	1.758	3.987	.103	4	4-3/16	3/32
156	107.62	2.62	1.867	4.237	.103	4-1/4	4-7/16	3/32
157	113.9	2.62	1.974	4.487	.103	4-1/2	4-11/16	3/32
158	120.3	2.62	2.082	4.737	.103	4-3/4	4-15/16	3/32
159	126.6	2.62	2.189	4.987	.103	5	5-3/16	3/32
160	133.02	2.62	2.297	5.237	.103	5-1/4	5-7/16	3/32
161	139.37	2.62	2.405	5.487	.103	5-1/2	5-11/16	3/32
162	145.7	2.62	2.512	5.737	.103	5-3/4	5-15/16	3/32
163	152	2.62	2.619	5.987	.103	6	6-3/16	3/32
164	158.42	2.62	2.728	6.237	.103	6-1/4	6-7/16	3/32

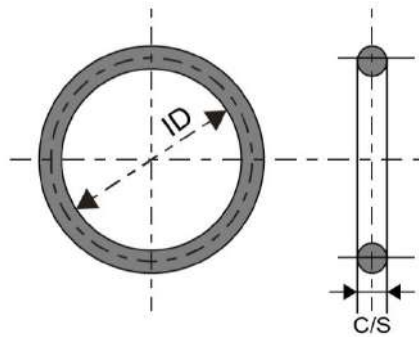
O-RING—AS



MATERIAL	
NBR	FKM
HNBR	SILICONE

ITEM	Actual Size Metric (mm)			Actual Size Inch		Nominal Size		
	ID	C/S	VOL (cm³)	ID	C/S	ID	OD	W
165	164.7	2.62	2.834	6.487	.103	6-1/2	6-11/16	3/32
166	171.1	2.62	2.942	6.737	.103	6-3/4	6-15/16	3/32
167	177.4	2.62	3.049	6.987	.103	7	7-3/16	3/32
168	183.8	2.62	3.157	7.237	.103	7-1/4	7-7/16	3/32
169	190.1	2.62	3.264	7.487	.103	7-1/2	7-11/16	3/32
170	196.5	2.62	3.373	7.737	.103	7-3/4	7-15/16	3/32
171	202.8	2.62	3.479	7.987	.103	8	8-3/16	3/32
172	209.2	2.62	3.588	8.237	.103	8-1/4	8-7/16	3/32
173	215.5	2.62	3.694	8.487	.103	8-1/2	8-11/16	3/32
174	221.9	2.62	3.803	8.737	.103	8-3/4	8-15/16	3/32
175	228.6	2.62	3.916	8.987	.103	9	9-3/16	3/32
176	234.6	2.62	4.018	9.237	.103	9-1/4	9-7/16	3/32
177	240.9	2.62	4.125	9.487	.103	9-1/2	9-11/16	3/32
178	247.3	2.62	4.233	9.737	.103	9-3/4	9-15/16	3/32
201	4.34	3.53	0.242	.171	.139	3/16	7/16	1/8
202	5.94	3.53	0.291	.234	.139	1/4	1/2	1/8
203	7.52	3.53	0.340	.296	.139	5/16	9/16	1/8
204	9.12	3.53	0.389	.359	.139	3/8	5/8	1/8
205	10.69	3.53	0.437	.421	.139	7/16	11/16	1/8
206	12.29	3.53	0.486	.484	.139	1/2	3/4	1/8
207	13.87	3.53	0.535	.546	.139	9/16	13/16	1/8
208	15.47	3.53	0.584	.609	.139	5/8	7/8	1/8
209	17.04	3.53	0.632	.671	.139	11/16	15/16	1/8
210	18.64	3.53	0.682	.734	.139	3/4	1	1/8
211	20.22	3.53	0.730	.796	.139	13/16	1-1/16	1/8
212	21.82	3.53	0.779	.859	.139	7/8	1-1/8	1/8
213	23.4	3.53	0.828	.921	.139	15/16	1-3/16	1/8
214	24.99	3.53	0.877	.984	.139	1	1-1/4	1/8
215	26.57	3.53	0.925	1.046	.139	1-1/16	1-5/16	1/8
216	28.17	3.53	0.975	1.109	.139	1-1/8	1-3/8	1/8
217	29.75	3.53	1.023	1.171	.139	1-3/16	1-7/16	1/8
218	31.34	3.53	1.072	1.234	.139	1-1/4	1-1/2	1/8
219	32.92	3.53	1.121	1.296	.139	1-5/16	1-9/16	1/8
220	34.52	3.53	1.170	1.359	.139	1-3/8	1-5/8	1/8
221	36.1	3.53	1.218	1.421	.139	1-7/16	1-11/16	1/8
222	37.69	3.53	1.267	1.484	.139	1-1/2	1-3/4	1/8
223	40.87	3.53	1.365	1.609	.139	1-5/8	1-7/8	1/8

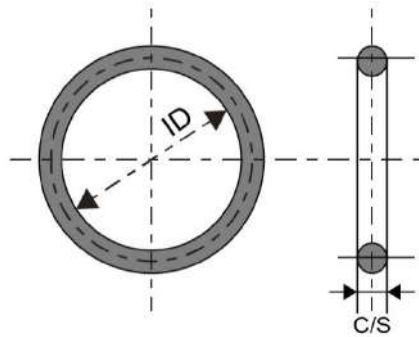
O-RING—AS



MATERIAL	
NBR	FKM
HNBR	SILICONE

ITEM	Actual Size Metric (mm)			Actual Size Inch		Nominal Size		
	ID	C/S	VOL (cm³)	ID	C/S	ID	OD	W
224	44.05	3.53	1.463	1.734	.139	1-3/4	2	1/8
225	47.22	3.53	1.560	1.859	.139	1-7/8	2-1/8	1/8
226	50.4	3.53	1.658	1.984	.139	2	2-1/4	1/8
227	53.57	3.53	1.756	2.109	.139	2-1/16	2-3/8	1/8
228	56.74	3.53	1.853	2.234	.139	2-1/4	2-1/2	1/8
229	59.92	3.53	1.951	2.359	.139	2-3/8	2-5/8	1/8
230	63.1	3.53	2.049	2.484	.139	2-1/2	2-3/4	1/8
231	66.27	3.53	2.146	2.609	.139	2-5/8	2-7/8	1/8
232	69.44	3.53	2.244	2.734	.139	2-3/4	3	1/8
233	72.62	3.53	2.341	2.859	.139	2-7/8	3-1/8	1/8
234	75.79	3.53	2.439	2.984	.139	3	3-1/4	1/8
235	78.97	3.53	2.537	3.109	.139	3-1/8	3-3/8	1/8
236	82.14	3.53	2.634	3.234	.139	3-1/4	3-1/2	1/8
237	85.32	3.53	2.732	3.359	.139	3-3/8	3-5/8	1/8
238	88.49	3.53	2.829	3.484	.139	3-1/2	3-3/4	1/8
239	91.67	3.53	2.927	3.609	.139	3-5/8	3-7/8	1/8
240	94.84	3.53	3.025	3.734	.139	3-3/4	4	1/8
241	98.02	3.53	3.122	3.859	.139	3-7/8	4-1/8	1/8
242	101.19	3.53	3.220	3.984	.139	4	4-1/4	1/8
243	104.37	3.53	3.318	4.109	.139	4-1/8	4-3/8	1/8
244	107.54	3.53	3.415	4.234	.139	4-1/4	4-1/2	1/8
245	110.72	3.53	3.513	4.359	.139	4-3/8	4-5/8	1/8
246	113.89	3.53	3.610	4.484	.139	4-1/2	4-3/4	1/8
247	117.07	3.53	3.708	4.609	.139	4-5/8	4-7/8	1/8
248	120.24	3.53	3.805	4.734	.139	4-3/4	5	1/8
249	123.42	3.53	3.903	4.859	.139	4-7/8	5-1/8	1/8
250	126.59	3.53	4.001	4.984	.139	5	5-1/4	1/8
251	129.77	3.53	4.098	5.109	.139	5-1/8	5-3/8	1/8
252	132.94	3.53	4.196	5.234	.139	5-1/4	5-1/2	1/8
253	136.12	3.53	4.294	5.359	.139	5-3/8	5-5/8	1/8
254	139.3	3.53	4.391	5.484	.139	5-1/2	5-3/4	1/8
255	142.47	3.53	4.489	5.609	.139	5-5/8	5-7/8	1/8
256	145.65	3.53	4.587	5.734	.139	5-3/4	6	1/8
257	148.82	3.53	4.684	5.859	.139	5-7/8	6-1/8	1/8
258	152	3.53	4.782	5.984	.139	6	6-1/4	1/8
259	158.35	3.53	4.977	6.234	.139	6-1/4	6-1/2	1/8
260	164.7	3.53	5.172	6.484	.139	6-1/2	6-3/4	1/8
261	171.05	3.53	5.368	6.734	.139	6-3/4	7	1/8

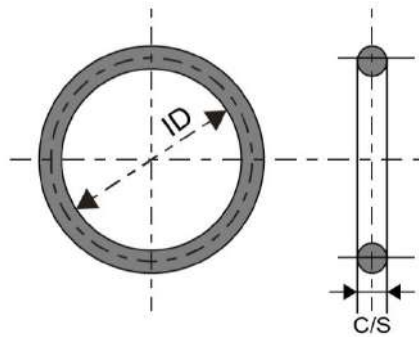
O-RING—AS



MATERIAL	
NBR	FKM
HNBR	SILICONE

ITEM	Actual Size Metric (mm)			Actual Size Inch		Nominal Size		
	ID	C/S	VOL (cm³)	ID	C/S	ID	OD	W
262	177.4	3.53	5.563	6.984	.139	7	7-1/4	1/8
263	183.75	3.53	5.758	7.234	.139	7-1/4	7-1/2	1/8
264	190.09	3.53	5.953	7.484	.139	7-1/2	7-3/4	1/8
265	196.45	3.53	6.149	7.734	.139	7-3/4	8	1/8
266	202.8	3.53	6.344	7.984	.139	8	8-1/4	1/8
267	209.15	3.53	6.539	8.234	.139	8-1/4	8-1/2	1/8
268	215.5	3.53	6.734	8.484	.139	8-1/2	8-3/4	1/8
269	221.85	3.53	6.930	8.734	.139	8-3/4	9	1/8
270	228.2	3.53	7.125	8.984	.139	9	9-1/4	1/8
271	234.55	3.53	7.320	9.234	.139	9-1/4	9-1/2	1/8
272	240.9	3.53	7.515	9.484	.139	9-1/2	9-3/4	1/8
273	247.25	3.53	7.711	9.734	.139	9-3/4	10	1/8
274	253.6	3.53	7.906	9.984	.139	10	10-1/4	1/8
275	266.3	3.53	8.296	10.484	.139	10-1/2	10-3/4	1/8
276	279	3.53	8.687	10.984	.139	11	11-1/4	1/8
277	291.7	3.53	9.077	11.484	.139	11-1/2	11-3/4	1/8
278	304.39	3.53	9.467	11.984	.139	12	12-1/4	1/8
279	329.8	3.53	10.249	12.984	.139	13	13-1/4	1/8
280	355.2	3.53	11.030	13.984	.139	14	14-1/4	1/8
281	380.6	3.53	11.811	14.984	.139	15	15-1/4	1/8
282	405.26	3.53	12.569	15.955	.139	16	16-1/4	1/8
283	430.66	3.53	13.350	16.955	.139	17	17-1/4	1/8
284	456.06	3.53	14.131	17.955	.139	18	18-1/4	1/8
309	10.46	5.33	1.107	.412	.210	7/16	13/16	3/16
310	12.07	5.33	1.220	.475	.210	1/2	7/8	3/16
311	13.64	5.33	1.330	.537	.210	9/16	15/16	3/16
312	15.24	5.33	1.442	.600	.210	5/8	1	3/16
313	16.81	5.33	1.552	.662	.210	11/16	1-1/16	3/16
314	18.42	5.33	1.665	.725	.210	3/4	1-1/8	3/16
315	19.99	5.33	1.775	.787	.210	13/16	1-3/16	3/16
316	21.59	5.33	1.887	.850	.210	7/8	1-1/4	3/16
317	23.16	5.33	1.997	.912	.210	15/16	1-5/16	3/16
318	24.77	5.33	2.110	.975	.210	1	1-3/8	3/16
319	26.34	5.33	2.220	1.037	.210	1-1/16	1-7/16	3/16
320	27.94	5.33	2.332	1.100	.210	1-1/8	1-1/2	3/16
321	29.51	5.33	2.442	1.162	.210	1-3/16	1-9/16	3/16
322	31.12	5.33	2.555	1.225	.210	1-1/4	1-5/8	3/16
323	32.69	5.33	2.665	1.287	.210	1-5/16	1-11/16	3/16

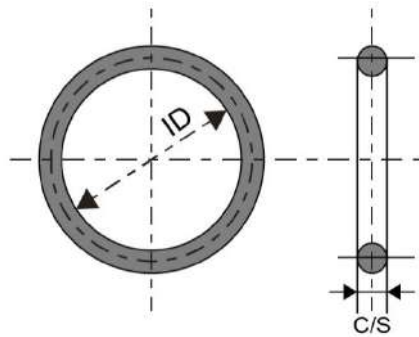
O-RING—AS



MATERIAL	
NBR	FKM
HNBR	SILICONE

ITEM	Actual Size Metric (mm)			Actual Size Inch		Nominal Size		
	ID	C/S	VOL (cm³)	ID	C/S	ID	OD	W
324	34.29	5.33	2.777	1.350	.210	1-3/8	1-3/4	3/16
325	37.46	5.33	2.999	1.475	.210	1-1/2	1-7/8	3/16
326	40.65	5.33	3.223	1.600	.210	1-5/8	2	3/16
327	43.82	5.33	3.445	1.725	.210	1-3/4	2-1/8	3/16
328	46.99	5.33	3.667	1.850	.210	1-7/8	2-1/4	3/16
329	50.16	5.33	3.890	1.975	.210	2	2-3/8	3/16
330	53.34	5.33	4.113	2.100	.210	2-1/8	2-1/2	3/16
331	56.52	5.33	4.335	2.225	.210	2-1/4	2-5/8	3/16
332	59.69	5.33	4.558	2.350	.210	2-3/8	2-3/4	3/16
333	62.87	5.33	4.781	2.475	.210	2-1/2	2-7/8	3/16
334	66.04	5.33	5.003	2.600	.210	2-5/8	3	3/16
335	69.22	5.33	5.226	2.725	.210	2-3/4	3-1/8	3/16
336	72.39	5.33	5.448	2.850	.210	2-7/8	3-1/4	3/16
337	75.60	5.33	5.673	2.975	.210	3	3-3/8	3/16
338	78.74	5.33	5.893	3.100	.210	3-1/8	3-1/2	3/16
339	81.92	5.33	6.116	3.225	.210	3-1/4	3-5/8	3/16
340	85.09	5.33	6.338	3.350	.210	3-3/8	3-3/4	3/16
341	88.27	5.33	6.561	3.475	.210	3-1/2	3-7/8	3/16
342	91.44	5.33	6.783	3.600	.210	3-5/8	4	3/16
343	94.62	5.33	7.006	3.725	.210	3-3/4	4-1/8	3/16
344	97.79	5.33	7.228	3.850	.210	3-7/8	4-1/4	3/16
345	100.96	5.33	7.451	3.975	.210	4	4-3/8	3/16
346	104.14	5.33	7.673	4.100	.210	4-1/8	4-1/2	3/16
347	107.32	5.33	7.896	4.225	.210	4-1/4	4-5/8	3/16
348	110.49	5.33	8.119	4.350	.210	4-3/8	4-3/4	3/16
349	113.67	5.33	8.341	4.475	.210	4-1/2	4-7/8	3/16
350	116.84	5.33	8.564	4.600	.210	4-5/8	5	3/16
351	120.02	5.33	8.787	4.725	.210	4-3/4	5-1/8	3/16
352	123.19	5.33	9.009	4.850	.210	4-7/8	5-1/4	3/16
353	126.37	5.33	9.232	4.975	.210	5	5-3/8	3/16
354	129.54	5.33	9.454	5.100	.210	5-1/8	5-1/2	3/16
355	132.72	5.33	9.677	5.225	.210	5-1/4	5-5/8	3/16
356	135.89	5.33	9.899	5.350	.210	5-3/8	5-3/4	3/16
357	139.07	5.33	10.122	5.475	.210	5-1/2	5-7/8	3/16
358	142.24	5.33	10.344	5.600	.210	5-5/8	6	3/16
359	145.42	5.33	10.567	5.725	.210	5-3/4	6-1/8	3/16
360	148.59	5.33	10.789	5.850	.210	5-7/8	6-1/4	3/16
361	151.77	5.33	11.012	5.975	.210	6	6-3/8	3/16

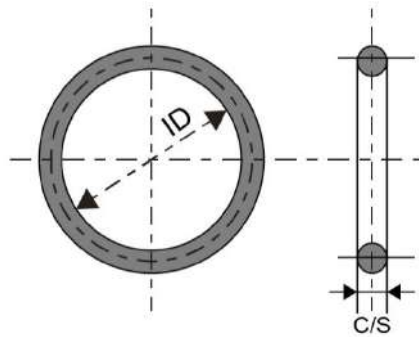
O-RING—AS



MATERIAL	
NBR	FKM
HNBR	SILICONE

ITEM	Actual Size Metric (mm)			Actual Size Inch		Nominal Size		
	ID	C/S	VOL (cm³)	ID	C/S	ID	OD	W
362	158.12	5.33	11.457	6.225	.210	6-1/4	6-5/8	3/16
363	164.47	5.33	11.902	6.475	.210	6-1/2	6-7/8	3/16
364	170.82	5.33	12.347	6.725	.210	6-3/4	7-1/8	3/16
365	177.17	5.33	12.793	6.975	.210	7	7-3/8	3/16
366	183.52	5.33	13.238	7.225	.210	7-1/4	7-5/8	3/16
367	189.87	5.33	13.683	7.475	.210	7-1/2	7-7/8	3/16
368	196.22	5.33	14.128	7.725	.210	7-3/4	8-1/8	3/16
369	202.57	5.33	14.573	7.975	.210	8	8-3/8	3/16
370	208.92	5.33	15.018	8.225	.210	8-1/4	8-5/8	3/16
371	215.27	5.33	15.463	8.475	.210	8-1/2	8-7/8	3/16
372	221.62	5.33	15.908	8.725	.210	8-3/4	9-1/8	3/16
373	227.97	5.33	16.354	8.975	.210	9	9-3/8	3/16
374	234.32	5.33	16.799	9.225	.210	9-1/4	9-5/8	3/16
375	240.67	5.33	17.244	9.475	.210	9-1/2	9-7/8	3/16
376	247.02	5.33	17.689	9.725	.210	9-3/4	10-1/8	3/16
377	253.37	5.33	18.134	9.975	.210	10	10-3/8	3/16
378	266.07	5.33	19.024	10.475	.210	10-1/2	10-7/8	3/16
379	278.77	5.33	19.914	10.975	.210	11	11-3/8	3/16
380	291.47	5.33	20.805	11.475	.210	11-1/2	11-7/8	3/16
381	304.17	5.33	21.695	11.975	.210	12	12-3/8	3/16
382	329.55	5.33	23.474	12.975	.210	13	13-3/8	3/16
383	354.97	5.33	25.256	13.975	.210	14	14-3/8	3/16
384	380.37	5.33	27.036	14.975	.210	15	15-3/8	3/16
385	405.26	5.33	28.781	15.955	.210	16	16-3/8	3/16
386	430.65	5.33	30.561	16.955	.210	17	17-3/8	3/16
387	456.06	5.33	32.342	17.955	.210	18	18-3/8	3/16
388	481.46	5.33	34.122	18.955	.210	19	19-3/8	3/16
389	506.85	5.33	35.902	19.955	.210	20	20-3/8	3/16
390	532.25	5.33	37.682	20.955	.210	21	21-3/8	3/16
391	557.65	5.33	39.463	21.955	.210	22	22-3/8	3/16
392	582.65	5.33	41.215	22.940	.210	23	23-3/8	3/16
393	608.1	5.33	42.999	23.940	.210	24	24-3/8	3/16
394	633.5	5.33	44.780	24.940	.210	25	25-3/8	3/16
395	658.88	5.33	46.559	25.940	.210	26	26-3/8	3/16
57	6.98		7.691					
62	6.98		8.292					
67	6.98		8.893					
72	6.98		9.494					

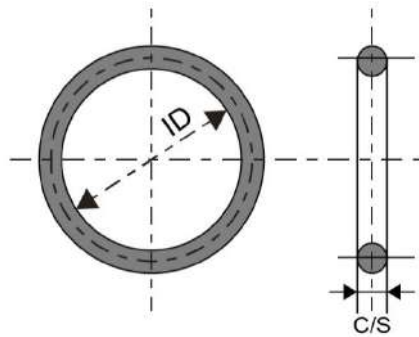
O-RING—AS



MATERIAL	
NBR	FKM
HNBR	SILICONE

ITEM	Actual Size Metric (mm)			Actual Size Inch		Nominal Size		
	ID	C/S	VOL (cm³)	ID	C/S	ID	OD	W
	77	6.98	10.096					
	82	6.98	10.697					
	87	6.98	11.298					
417	88.27	6.99	11.484	3.475	.275	3 1/2	4	1/4
	92	6.98	11.899					
419	94.42	6.99	12.226	3.725	.275	3 3/4	4 1/4	1/4
	97	6.98	12.500					
420	97.79	6.98	12.595	3.850	.275	3 7/8	4 3/8	1/4
	102	6.98	13.101					
	107	6.98	13.702					
423	107.32	6.99	13.781	4.225	.275	4 1/4	4 3/4	1/4
	112	6.98	14.303					
425	113.66	6.98	14.503	4.475	.275	4 1/2	5	1/4
426	116.84	6.98	14.885	4.600	.275	4-5/8	5-1/8	1/4
427	120.02	6.98	15.267	4.725	.275	4-3/4	5-1/4	1/4
428	123.19	6.98	15.648	4.850	.275	4-7/8	5-3/8	1/4
429	126.36	6.98	16.029	4.975	.275	5	5-1/2	1/4
430	129.54	6.98	16.412	5.100	.275	5-1/8	5-5/8	1/4
431	132.72	6.98	16.794	5.225	.275	5-1/4	5-3/4	1/4
432	135.89	6.98	17.175	5.350	.275	5-3/8	5-7/8	1/4
433	139.06	6.98	17.556	5.475	.275	5-1/2	6	1/4
434	142.24	6.98	17.938	5.600	.275	5-5/8	6-1/8	1/4
435	145.42	6.98	18.321	5.725	.275	5-3/4	6-1/4	1/4
	147	6.98	18.510					
436	148.59	6.98	18.702	5.850	.275	5-7/8	6-3/8	1/4
437	151.76	6.98	19.083	5.975	.275	6	6-1/2	1/4
438	158.12	6.98	19.847	6.225	.275	6-1/4	6-3/4	1/4
439	164.46	6.98	20.609	6.475	.275	6-1/2	7	1/4
	167	6.98	20.915					
440	170.82	6.98	21.374	6.725	.275	6-3/4	7-1/4	1/4
441	177.16	6.98	22.136	6.975	.275	7	7-1/2	1/4
442	183.52	6.98	22.901	7.225	.275	7-1/4	7-3/4	1/4
443	189.86	6.98	23.663	7.475	.275	7-1/2	8	1/4
444	196.22	6.98	24.427	7.725	.275	7-3/4	8-1/4	1/4
445	202.56	6.98	25.190	7.975	.275	8	8-1/2	1/4
446	215.26	6.98	26.716	8.475	.275	8-1/2	9	1/4
447	227.96	6.98	28.243	8.975	.275	9	9-1/2	1/4
448	240.67	6.98	29.771	9.475	.275	9-1/2	10	1/4

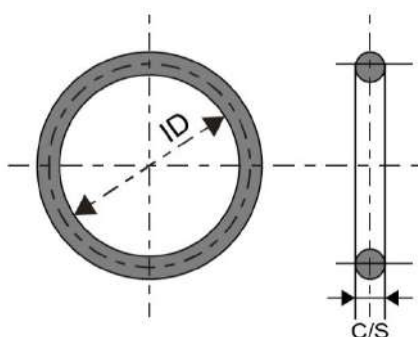
O-RING—AS



MATERIAL	
NBR	FKM
HNBR	SILICONE

ITEM	Actual Size Metric (mm)			Actual Size Inch		Nominal Size		
	ID	C/S	VOL (cm³)	ID	C/S	ID	OD	W
449	253.36	6.98	31.296	9.975	.275	10	10-1/2	1/4
450	266.06	6.98	32.823	10.475	.275	10-1/2	11	1/4
451	278.76	6.98	34.350	10.975	.275	11	11-1/2	1/4
452	291.47	6.98	35.878	11.475	.275	11	12	1/4
453	304.16	6.98	37.403	11.975	.275	12	12-1/2	1/4
454	316.87	6.98	38.931	12.475	.275	12-1/2	13	1/4
455	329.56	6.98	40.457	12.975	.275	13	13-1/2	1/4
456	342.27	6.98	41.985	13.475	.275	13-1/2	14	1/4
457	354.96	6.98	43.510	13.975	.275	14	14-1/2	1/4
458	367.66	6.98	45.037	14.475	.275	14-1/2	15	1/4
459	380.36	6.98	46.563	14.975	.275	15	15-1/2	1/4
460	393.07	6.98	48.091	15.475	.275	15-1/2	16	1/4
461	405.26	6.98	49.557	15.955	.275	16	16-1/2	1/4
462	417.96	6.98	51.083	16.455	.275	16-1/2	17	1/4
463	430.66	6.98	52.610	16.955	.275	17	17-1/2	1/4
464	443.36	6.98	54.137	17.455	.275	17-1/2	18	1/4
465	456.06	6.98	55.664	17.955	.275	18	18-1/2	1/4
466	468.76	6.98	57.190	18.455	.275	18-1/2	19	1/4
467	481.46	6.98	58.717	18.955	.275	19	19-1/2	1/4
468	494.16	6.98	60.244	19.455	.275	19-1/2	20	1/4
469	506.86	6.98	61.770	19.955	.275	20	20-1/2	1/4
470	532.26	6.98	64.824	20.955	.275	21	21-1/2	1/4
471	557.65	6.98	67.876	21.955	.275	22	22-1/2	1/4
472	582.68	6.98	70.885	22.940	.275	23	23-1/2	1/4
473	608.08	6.98	73.938	23.940	.275	24	24-1/2	1/4
474	633.50	6.98	76.994	24.940	.275	25	25-1/2	1/4
475	658.88	6.98	80.045	25.940	.275	26	26-1/2	1/4
901	4.7	1.42	0.030	.056	.0019		3/32	
902	6.07	1.63	0.050	.005	.0031		1/8	
903	7.65	1.63	0.061	.064	.0037		3/16	
904	8.92	1.83	0.089	.072	.0055		1/4	
905	10.52	1.83	0.102	.072	.0063		5/16	
906	11.89	1.98	0.134	.078	.0082		3/8	
907	13.46	2.08	0.166	.082	.0102		7/16	
908	16.36	2.21	0.224	.087	.0137		1/2	
909	17.94	2.46	0.305	.097	.0187		9/16	
910	19.18	2.46	0.323	.097	.0198		5/8	

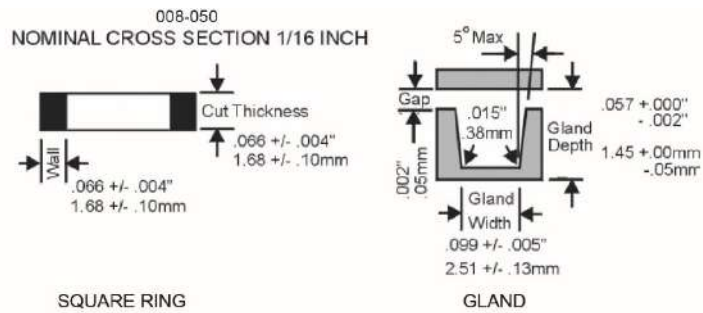
O-RING—AS



MATERIAL	
NBR	FKM
HNBR	SILICONE

ITEM	Actual Size Metric (mm)			Actual Size Inch		Nominal Size		
	ID	C/S	VOL (cm³)	ID	C/S	ID	OD	W
911	21.92	2.95	0.534	.116	.0326	11/16		
912	23.47	2.95	0.567	.116	.0346	3/4		
913	25.04	2.95	0.601	.116	.0366	13/16		
914	26.6	2.95	0.635	.116	.0387	7/8		
916	29.74	2.95	0.702	.116	.0428	1		
918	34.42	2.95	0.802	.116	.0489	1-1/8		
920	37.46	3	0.898	.118	.0548	1-1/4		
924	43.68	3	1.037	.118	.0632	1-1/2		
928	53.09	3	1.246	.118	.0759	1-3/4		
932	59.36	3	1.385	.118	.0844	2		

SQUARE RING-AS-568 SERIES (SQ)



008~050

W/T:1.68 (mm)

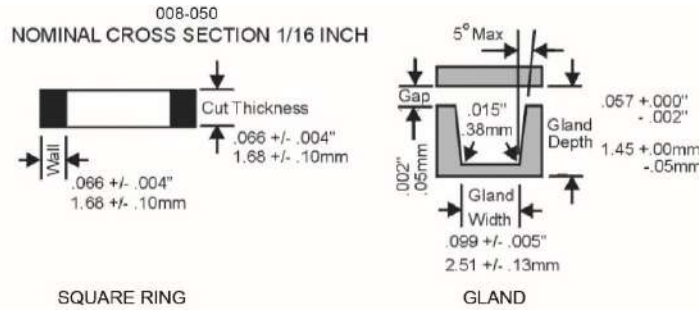
SQUARE RING

GLAND

NBR

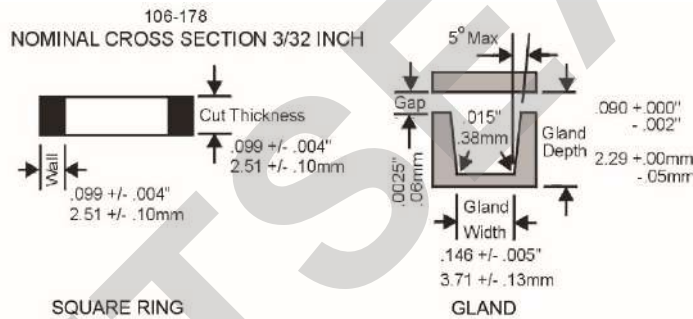
ITEM	Nominal Size		Actual Size Inch		Actual Size Metric (mm)	
	ID	OD	ID	Tol. +/-	ID	Tol. +/-
008	3/16	5/16	0.176	0.005	4.47	0.13
009	7/32	11/32	0.208	0.005	5.28	0.13
010	1/4	3/8	0.239	0.005	6.07	0.13
011	5/16	7/16	0.301	0.005	7.65	0.13
012	3/8	1/2	0.364	0.005	9.25	0.13
013	7/16	9/16	0.426	0.005	10.82	0.13
014	1/2	5/8	0.489	0.005	12.42	0.13
015	9/16	11/16	0.551	0.005	14	0.13
016	5/8	3/4	0.614	0.005	15.6	0.13
017	11/16	13/16	0.676	0.006	17.17	0.15
018	3/4	7/8	0.739	0.006	18.77	0.15
019	13/16	15/16	0.801	0.006	20.35	0.15
020	7/8	1	0.864	0.006	21.95	0.15
021	15/16	1 1/16	0.926	0.007	23.52	0.18
022	1	1 1/8	0.989	0.007	25.12	0.18
023	1 1/16	1 3/16	1.051	0.007	26.7	0.18
024	1 1/8	1 1/4	1.114	0.007	28.3	0.18
025	1 3/16	1 5/16	1.176	0.008	29.87	0.2
026	1 1/4	1 3/8	1.239	0.008	31.47	0.2
027	1 5/16	1 7/16	1.301	0.008	33.05	0.2
028	1 3/8	1 1/2	1.364	0.008	34.65	0.2
029	1 1/2	1 5/8	1.489	0.009	37.82	0.23
030	1 5/8	1 3/4	1.614	0.009	41	0.23
031	1 3/4	1 7/8	1.739	0.01	44.17	0.25
032	1 7/8	2	1.864	0.01	47.35	0.25
033	2	2 1/8	1.989	0.011	50.52	0.28
034	2 1/8	2 1/4	2.114	0.011	53.7	0.28
035	2 1/4	2 3/8	2.239	0.012	56.87	0.3
036	2 3/8	2 1/2	2.364	0.012	60.05	0.3
037	2 1/2	2 5/8	2.489	0.013	63.22	0.33
038	2 5/8	2 3/4	2.614	0.013	66.4	0.33
039	2 3/4	2 7/8	2.739	0.014	69.57	0.36
040	2 7/8	3	2.864	0.014	72.75	0.36
041	3	3 1/8	2.989	0.015	75.92	0.38

SQUARE RING-AS-568 SERIES (SQ)



NBR70

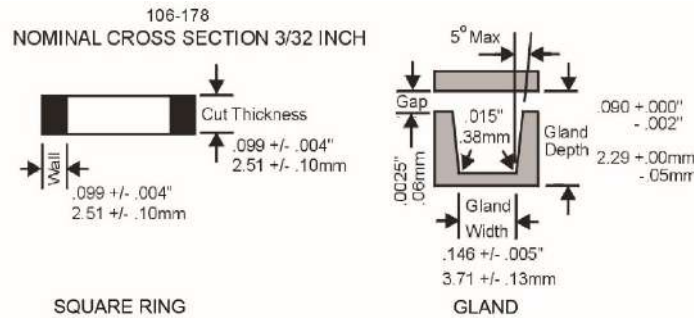
ITEM	Nominal Size		Actual Size Inch		Actual Size Metric (mm)	
	ID	OD	ID	Tol. +/-	ID	Tol. +/-
042	3 1/4	3 3/8	3.239	0.016	82.27	0.41
043	3 1/2	3 5/8	3.489	0.017	88.62	0.43
044	3 3/4	3 7/8	3.739	0.018	94.97	0.46
045	4	4 1/4	3.989	0.019	101.32	0.48
046	4 1/4	4 3/8	4.239	0.02	107.67	0.51
047	4 1/2	4 5/8	4.489	0.021	114.02	0.53
048	4 3/4	4 7/8	4.739	0.022	120.37	0.56
049	5	5 1/8	4.989	0.023	126.72	0.58
050	5 1/4	5 3/8	5.239	0.024	133.07	0.61



NBR70

ITEM	Nominal Size		Actual Size Inch		Actual Size Metric (mm)	
	ID	OD	ID	Tol. +/-	ID	Tol. +/-
106	3/16	3/8	0.174	0.005	4.42	0.13
107	7/32	13/32	0.206	0.005	5.23	0.13
108	1/4	7/16	0.237	0.005	6.02	0.13
109	5/16	1/2	0.299	0.005	7.59	0.13
110	3/8	9/16	0.362	0.005	9.19	0.13
111	7/16	5/8	0.424	0.005	10.77	0.13
112	1/2	11/16	0.487	0.005	12.37	0.13
113	9/16	3/4	0.549	0.005	13.94	0.13
114	5/8	13/16	0.612	0.005	15.54	0.13
115	11/16	7/8	0.674	0.006	17.12	0.15
116	3/4	15/16	0.737	0.006	18.72	0.15
117	13/16	1	0.799	0.006	20.29	0.15

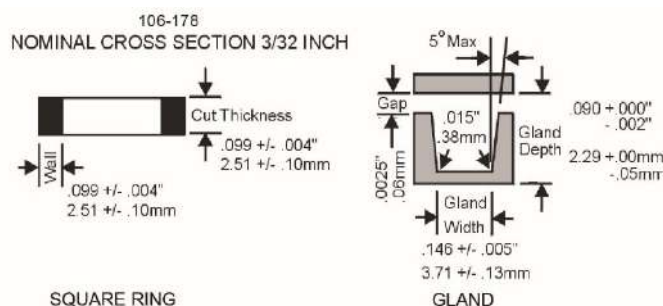
SQUARE RING-AS-568 SERIES (SQ)



NBR70

ITEM	Nominal Size		Actual Size Inch		Actual Size Metric (mm)	
	ID	OD	ID	Tol. +/-	ID	Tol. +/-
118	7/8	1 1/16	0.862	0.006	21.89	0.15
119	15/16	1 1/8	0.924	0.007	23.47	0.18
120	1	1 3/16	0.987	0.007	25.07	0.18
121	1 1/16	1 1/4	1.049	0.007	26.64	0.18
122	1 1/8	1 5/16	1.112	0.007	28.24	0.18
123	1 3/16	1 3/8	1.174	0.008	29.82	0.2
124	1 1/4	1 7/16	1.237	0.008	31.42	0.2
125	1 5/16	1 1/2	1.299	0.008	32.99	0.2
126	1 3/8	1 9/16	1.362	0.008	34.59	0.2
127	1 7/16	1 5/8	1.424	0.009	36.17	0.23
128	1 1/2	1 11/16	1.487	0.009	37.77	0.23
129	1 9/16	1 3/4	1.549	0.009	39.34	0.23
130	1 5/8	1 13/16	1.612	0.009	40.94	0.23
131	1 11/16	1 7/8	1.674	0.01	42.52	0.25
132	1 3/4	1 15/16	1.737	0.01	44.12	0.25
133	1 13/16	2	1.799	0.01	45.69	0.25
134	1 7/8	2 1/16	1.862	0.01	47.29	0.25
135	1 15/16	2 1/8	1.925	0.011	48.9	0.28
136	2	2 3/16	1.987	0.011	50.47	0.28
137	2 1/16	2 1/4	2.05	0.011	52.07	0.28
138	2 1/8	2 5/16	2.112	0.011	53.64	0.28
139	2 3/16	2 3/8	2.175	0.012	55.25	0.3
140	2 1/4	2 7/16	2.237	0.012	56.82	0.3
141	2 5/16	2 1/2	2.3	0.012	58.42	0.3
142	2 3/8	2 9/16	2.362	0.012	60	0.3
143	2 7/16	2 5/8	2.425	0.013	61.6	0.33
144	2 1/2	2 11/16	2.487	0.013	63.17	0.33
145	2 9/16	2 3/4	2.55	0.013	64.77	0.33
146	2 5/8	2 13/16	2.612	0.013	66.34	0.33
147	2 11/16	2 7/8	2.675	0.014	67.95	0.36
148	2 3/4	2 3/4	2.737	0.014	69.52	0.36
149	2 13/16	3	2.8	0.014	71.12	0.36
150	2 7/8	3 1/16	2.862	0.014	72.69	0.36
151	3	3 3/16	2.987	0.015	75.87	0.38

SQUARE RING-AS-568 SERIES (SQ)



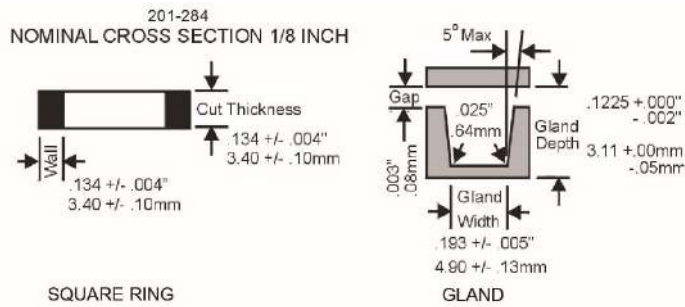
106~178

W/T:2.51 (mm)

NBR70

ITEM	Nominal Size		Actual Size Inch		Actual Size Metric (mm)	
	ID	OD	ID	Tol. +/-	ID	Tol. +/-
152	3 1/4	3 7/16	3.237	0.016	82.22	0.41
153	3 1/2	3 11/16	3.487	0.017	88.57	0.43
154	3 3/4	3 15/16	3.737	0.018	94.92	0.46
155	4	4 3/16	3.987	0.019	101.27	0.48
156	4 1/4	4 7/16	4.237	0.02	107.62	0.51
157	4 1/2	4 11/16	4.487	0.021	113.97	0.53
158	4 3/4	4 15/16	4.737	0.022	120.32	0.56
159	5	5 3/16	4.987	0.023	126.67	0.58
160	5 1/4	5 7/16	5.237	0.024	133.02	0.61
161	5 1/2	5 11/16	5.487	0.025	139.37	0.64
162	5 3/4	5 15/16	5.737	0.026	145.72	0.66
163	6	6 3/16	5.987	0.027	152.07	0.69
164	6 1/4	6 7/16	6.237	0.028	158.42	0.71
165	6 1/2	6 11/16	6.487	0.029	164.77	0.74
166	6 3/4	6 15/16	6.737	0.03	171.12	0.76
167	7	7 3/16	6.987	0.031	177.47	0.79
168	7 1/4	7 7/16	7.237	0.032	183.82	0.81
169	7 1/2	7 11/16	7.487	0.033	190.17	0.84
170	7 3/4	7 15/16	7.737	0.034	196.52	0.86
171	8	8 3/16	7.987	0.035	202.87	0.89
172	8 1/4	8 7/16	8.237	0.036	209.22	0.91
173	8 1/2	8 11/16	8.487	0.037	215.57	0.94
174	8 3/4	8 15/16	8.737	0.038	221.92	0.97
175	9	9 3/16	8.987	0.039	228.27	0.99
176	9 1/4	9 7/16	9.237	0.04	234.62	1.02
177	9 1/2	9 11/16	9.487	0.041	240.97	1.04
178	9 3/4	9 15/16	9.737	0.042	247.32	1.07

SQUARE RING-AS-568 SERIES (SQ)



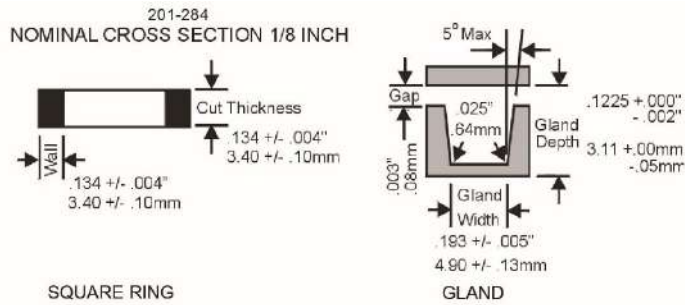
201~284

W/T:3.40 (mm)

NBR70

ITEM	Nominal Size		Actual Size Inch		Actual Size Metric (mm)	
	ID	OD	ID	Tol. +/-	ID	Tol. +/-
201	3/16	7/16	0.171	0.005	4.34	0.13
202	1/4	1/2	0.234	0.005	5.94	0.13
203	5/16	9/16	0.296	0.005	7.52	0.13
204	3/8	5/8	0.359	0.005	9.12	0.13
205	7/16	11/16	0.421	0.005	10.69	0.13
206	1/2	3/4	0.484	0.005	12.29	0.13
207	9/16	13/16	0.546	0.005	13.87	0.13
208	5/8	7/8	0.609	0.005	15.47	0.13
209	11/16	15/16	0.671	0.006	17.04	0.15
210	3/4	1	0.734	0.006	18.64	0.15
211	13/16	1 1/16	0.796	0.006	20.22	0.15
212	7/8	1 1/8	0.859	0.006	21.82	0.15
213	15/16	1 3/16	0.921	0.007	23.39	0.18
214	1	1 1/4	0.984	0.007	24.99	0.18
215	1 1/16	1 5/16	1.046	0.007	26.57	0.18
216	1 1/8	1 3/8	1.109	0.007	28.17	0.18
217	1 3/16	1 7/16	1.171	0.008	29.74	0.2
218	1 1/4	1 1/2	1.234	0.008	31.34	0.2
219	1 5/16	1 9/16	1.296	0.008	32.92	0.2
220	1 3/8	1 5/8	1.359	0.008	34.52	0.2
221	1 7/16	1 11/16	1.421	0.009	36.09	0.23
222	1 1/2	1 3/4	1.484	0.009	37.69	0.23
223	1 5/8	1 7/8	1.609	0.009	40.87	0.23
224	1 3/4	2	1.734	0.01	44.04	0.25
225	1 7/8	2 1/8	1.859	0.01	47.22	0.25
226	2	2 1/4	1.984	0.011	50.39	0.28
227	2 1/8	2 3/8	2.109	0.011	53.57	0.28
228	2 1/4	2 1/2	2.234	0.012	56.74	0.3
229	2 3/8	2 5/8	2.359	0.012	59.92	0.3
230	2 1/2	2 3/4	2.484	0.013	63.09	0.33
231	2 5/8	2 7/8	2.609	0.013	66.27	0.33
232	2 3/4	3	2.734	0.014	69.44	0.36
233	2 7/8	3 1/8	2.859	0.014	72.62	0.36
234	3	3 1/4	2.984	0.015	75.79	0.38

SQUARE RING-AS-568 SERIES (SQ)



201~284

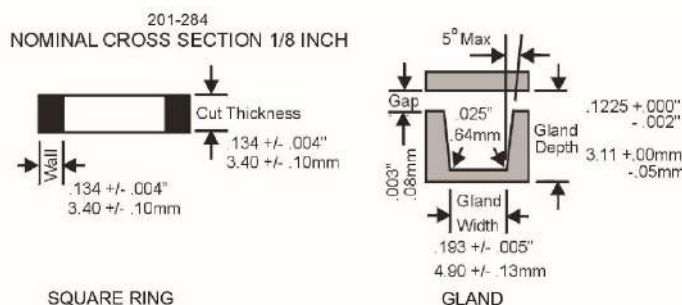
SQUARE RING

NBR70

W/T:3.40 (mm)

ITEM	Nominal Size		Actual Size Inch		Actual Size Metric (mm)	
	ID	OD	ID	Tol. +/-	ID	Tol. +/-
235	3 1/8	3 3/8	3.109	0.015	78.97	0.38
236	3 1/4	3 1/2	3.234	0.016	82.14	0.41
237	3 3/8	3 5/8	3.359	0.016	85.32	0.41
238	3 1/2	3 3/4	3.484	0.017	88.49	0.43
239	3 5/8	3 7/8	3.609	0.017	91.67	0.43
240	3 3/4	4	3.734	0.018	94.84	0.46
241	3 7/8	4 1/8	3.859	0.018	98.02	0.46
242	4	4 1/4	3.984	0.019	101.19	0.48
243	4 1/8	4 3/8	4.109	0.019	104.37	0.48
244	4 1/4	4 1/2	4.234	0.02	107.54	0.51
245	4 3/8	4 5/8	4.359	0.02	110.72	0.51
246	4 1/2	4 3/4	4.484	0.021	113.89	0.53
247	4 5/8	4 7/8	4.609	0.021	117.07	0.53
248	4 3/4	5	4.734	0.022	120.24	0.56
249	4 7/8	5 1/8	4.859	0.022	123.42	0.56
250	5	5 1/4	4.984	0.023	126.59	0.58
251	5 1/8	5 3/8	5.109	0.023	129.77	0.58
252	5 1/4	5 1/2	5.234	0.024	132.94	0.61
253	5 3/8	5 5/8	5.359	0.024	136.12	0.61
254	5 1/2	5 3/4	5.484	0.025	139.29	0.64
255	5 5/8	5 7/8	5.609	0.025	142.47	0.64
256	5 3/4	6	5.734	0.026	145.64	0.66
257	5 7/8	6 1/8	5.859	0.026	148.82	0.66
258	6	6 1/4	5.984	0.027	151.99	0.69
259	6 1/4	6 1/2	6.234	0.028	158.34	0.71
260	6 1/2	6 3/4	6.484	0.029	164.69	0.74
261	6 3/4	7	6.734	0.03	171.04	0.76
262	7	7 1/4	6.984	0.031	177.39	0.79
263	7 1/4	7 1/2	7.234	0.032	183.74	0.81
264	7 1/2	7 3/4	7.484	0.033	190.09	0.84
265	7 3/4	8	7.734	0.034	196.44	0.86
266	8	8 1/4	7.984	0.035	202.79	0.89
267	8 1/4	8 1/2	8.234	0.036	209.14	0.91
268	8 1/2	8 3/4	8.484	0.037	215.49	0.94

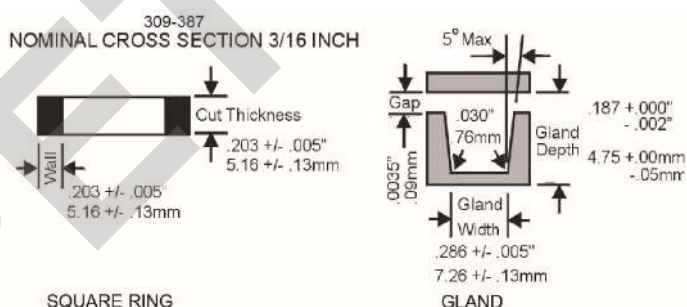
SQUARE RING-AS-568 SERIES (SQ)



201~284

W/T:3.40 (mm)

ITEM	Nominal Size		Actual Size Inch		Actual Size Metric (mm)	
	ID	OD	ID	Tol. +/-	ID	Tol. +/-
269	8 3/4	9	8.734	0.038	221.84	0.97
270	9	9 1/4	8.984	0.039	228.19	0.99
271	9 1/4	9 1/2	9.234	0.04	234.54	1.02
272	9 1/2	9 3/4	9.484	0.041	240.89	1.04
273	9 3/4	10	9.734	0.042	247.24	1.07
274	10	10 1/4	9.984	0.043	253.59	1.09
275	10 1/2	10 3/4	10.484	0.045	266.29	1.14
276	11	11 1/4	10.984	0.047	278.99	1.19
277	11 1/2	11 3/4	11.484	0.049	291.69	1.24
278	12	12 1/4	11.984	0.051	304.39	1.3
279	13	13 1/4	12.984	0.055	329.79	1.4
280	14	14 1/4	13.984	0.059	355.19	1.5
281	15	15 1/4	14.984	0.063	380.59	1.6
282	16	16 1/4	15.955	0.067	405.26	1.7
283	17	17 1/4	16.955	0.071	430.66	1.8
284	18	18 1/4	17.955	0.075	456.06	1.91

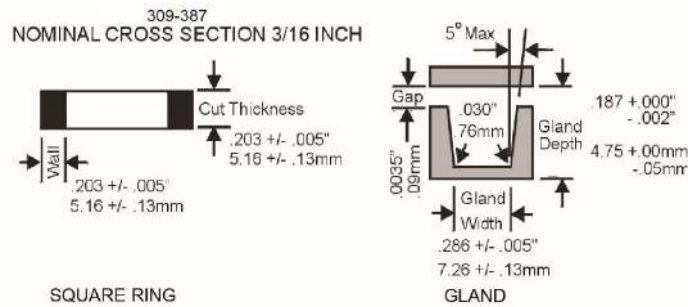


309~387

W/T:5.16 (mm)

ITEM	Nominal Size		Actual Size Inch		Actual Size Metric (mm)	
	ID	OD	ID	Tol. +/-	ID	Tol. +/-
309	7/16	13/16	0.412	0.005	10.46	0.13
310	1/2	7/8	0.475	0.005	12.07	0.13
311	9/16	15/16	0.537	0.005	13.64	0.13
312	5/8	1	0.6	0.005	15.24	0.13
313	11/16	1 1/16	0.662	0.006	16.81	0.15
314	3/4	1 1/8	0.725	0.006	18.42	0.15
315	13/16	1 3/16	0.787	0.006	19.99	0.15

SQUARE RING-AS-568 SERIES (SQ)



309~387

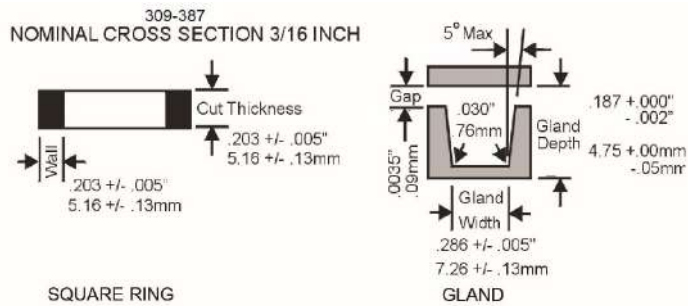
W/T:5.16 (mm)

SQUARE RING

NBR70

ITEM	Nominal Size		Actual Size Inch		Actual Size Metric (mm)	
	ID	OD	ID	Tol. +/-	ID	Tol. +/-
316	7/8	1 1/4	0.85	0.006	21.59	0.15
317	15/16	1 5/16	0.912	0.007	23.16	0.18
318	1	1 3/8	0.975	0.007	24.77	0.18
319	1 1/16	1 7/16	1.037	0.007	26.34	0.18
320	1 1/8	1 1/2	1.1	0.007	27.94	0.18
321	1 3/16	1 9/16	1.162	0.008	29.51	0.2
322	1 1/4	1 5/8	1.225	0.008	31.12	0.2
323	1 5/16	1 11/16	1.287	0.008	32.69	0.2
324	1 3/8	1 3/4	1.35	0.008	34.29	0.2
325	1 1/2	1 7/8	1.475	0.009	37.47	0.23
326	1 5/8	2	1.6	0.009	40.64	0.23
327	1 3/4	2 1/8	1.725	0.01	43.82	0.25
328	1 7/8	2 1/4	1.85	0.01	46.99	0.25
329	2	2 3/8	1.975	0.011	50.17	0.28
330	2 1/8	2 1/2	2.1	0.011	53.34	0.28
331	2 1/4	2 5/8	2.225	0.012	56.52	0.3
332	2 3/8	2 3/4	2.35	0.012	59.69	0.3
333	2 1/2	2 7/8	2.475	0.013	62.87	0.33
334	2 5/8	3	2.6	0.013	66.04	0.33
335	2 3/4	3 1/8	2.725	0.014	69.22	0.36
336	2 7/8	3 1/4	2.85	0.014	72.39	0.36
337	3	3 3/8	2.975	0.015	75.57	0.38
338	3 1/8	3 1/2	3.1	0.015	78.74	0.38
339	3 1/4	3 5/8	3.225	0.016	81.92	0.41
340	3 3/8	3 3/4	3.35	0.016	85.09	0.41
341	3 1/2	3 7/8	3.475	0.017	88.27	0.43
342	3 5/8	4	3.6	0.017	91.44	0.43
343	3 3/4	4 1/8	3.725	0.018	94.62	0.46
344	3 7/8	4 1/4	3.85	0.018	97.79	0.46
345	4	4 3/8	3.975	0.019	100.97	0.48
346	4 1/8	4 1/2	4.1	0.019	104.14	0.48
347	4 1/4	4 5/8	4.225	0.02	107.32	0.51
348	4 3/8	4 3/4	4.35	0.02	110.49	0.51
349	4 1/2	4 7/8	4.475	0.021	113.67	0.53

SQUARE RING-AS-568 SERIES (SQ)



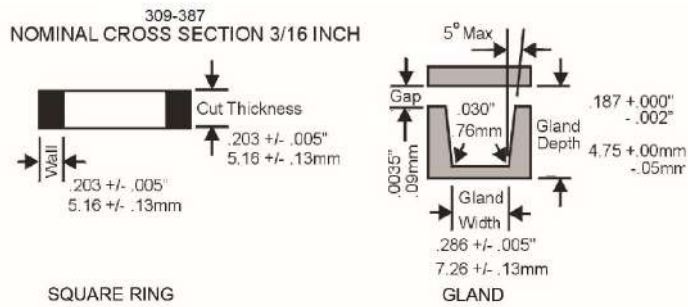
309~387

W/T:5.16 (mm)

NBR70

ITEM	Nominal Size		Actual Size Inch		Actual Size Metric (mm)	
	ID	OD	ID	Tol. +/-	ID	Tol. +/-
350	4 5/8	5	4.6	0.021	116.84	0.53
351	4 3/4	5 1/8	4.725	0.022	120.02	0.56
352	4 7/8	5 1/4	4.85	0.022	123.19	0.56
353	5	5 3/8	4.975	0.023	126.37	0.58
354	5 1/8	5 1/2	5.1	0.023	129.54	0.58
355	5 1/4	5 5/8	5.225	0.024	132.72	0.61
356	5 3/8	5 3/4	5.35	0.024	135.89	0.61
357	5 1/2	5 7/8	5.475	0.025	139.07	0.64
358	5 5/8	6	5.6	0.025	142.24	0.64
359	5 3/4	6 1/8	5.725	0.026	145.42	0.66
360	5 7/8	6 1/4	5.85	0.026	148.59	0.66
361	6	6 3/8	5.975	0.027	151.77	0.69
362	6 1/4	6 5/8	6.225	0.028	158.12	0.71
363	6 1/2	6 7/8	6.475	0.029	164.47	0.74
364	6 3/4	7 1/8	6.725	0.03	170.82	0.76
365	7	7 3/8	6.975	0.031	177.17	0.79
366	7 1/4	7 5/8	7.225	0.032	183.52	0.81
367	7 1/2	7 7/8	7.475	0.033	189.87	0.84
368	7 3/4	8 1/8	7.725	0.034	196.22	0.86
369	8	8 3/8	7.975	0.035	202.57	0.89
370	8 1/4	8 5/8	8.225	0.036	208.92	0.91
371	8 1/2	8 7/8	8.475	0.037	215.27	0.94
372	8 3/4	9 1/8	8.725	0.038	221.62	0.97
373	9	9 3/8	8.975	0.039	227.97	0.99
374	9 1/4	9 5/8	9.225	0.04	234.32	1.02
375	9 1/2	9 7/8	9.475	0.041	240.67	1.04
376	9 3/4	10 1/8	9.725	0.042	247.02	1.07
377	10	10 3/8	9.975	0.043	253.37	1.09
378	10 1/2	10 7/8	10.475	0.045	266.07	1.14
379	11	11 3/8	10.975	0.047	278.77	1.19
380	11 1/2	11 7/8	11.475	0.049	291.47	1.24
381	12	12 3/8	11.975	0.051	304.17	1.3
382	13	13 3/8	12.975	0.055	329.57	1.4
383	14	14 3/8	13.975	0.059	354.97	1.5

SQUARE RING-AS-568 SERIES (SQ)



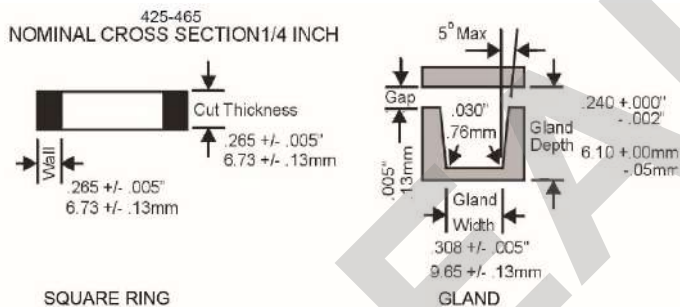
309~387

SQUARE RING

NBR70

W/T:5.16 (mm)

ITEM	Nominal Size		Actual Size Inch		Actual Size Metric (mm)	
	ID	OD	ID	Tol. +/-	ID	Tol. +/-
384	15	15 3/8	14.975	0.063	380.37	1.6
385	16	16 3/8	15.955	0.067	405.27	1.7
386	17	17 3/8	16.955	0.071	430.67	1.8
387	18	18 3/8	17.955	0.075	456.07	1.91



425~465

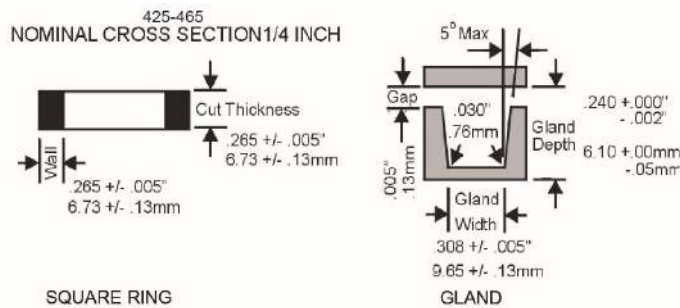
SQUARE RING

NBR70

W/T:6.73 (mm)

ITEM	Nominal Size		Actual Size Inch		Actual Size Metric (mm)	
	ID	OD	ID	Tol. +/-	ID	Tol. +/-
425	4 1/2	5	4.475	0.021	113.67	0.53
426	4 5/8	5 1/8	4.6	0.021	116.84	0.53
427	4 3/4	5 1/4	4.725	0.022	120.02	0.56
428	4 7/8	5 3/8	4.85	0.022	123.19	0.56
429	5	5 1/2	4.975	0.023	126.37	0.58
430	5 1/8	5 5/8	5.1	0.023	129.54	0.58
431	5 1/4	5 3/4	5.225	0.024	132.72	0.61
432	5 3/8	5 7/8	5.35	0.024	135.89	0.61
433	5 1/2	6	5.475	0.025	139.07	0.64
434	5 5/8	6 1/8	5.6	0.025	142.24	0.64
435	5 3/4	6 1/4	5.725	0.026	145.42	0.66
436	5 7/8	6 3/8	5.85	0.026	148.59	0.66
437	6	6 1/2	5.975	0.027	151.77	0.69
438	6 1/4	6 3/4	6.225	0.028	158.12	0.74
439	6 1/2	7	6.475	0.029	164.47	0.74
440	6 3/4	7 1/4	6.725	0.03	170.82	0.76
441	7	7 1/2	6.975	0.031	177.17	0.79
442	7 1/4	7 3/4	7.225	0.032	183.52	0.81
443	7 1/2	8	7.475	0.033	189.87	0.84

SQUARE RING-AS-568 SERIES (SQ)



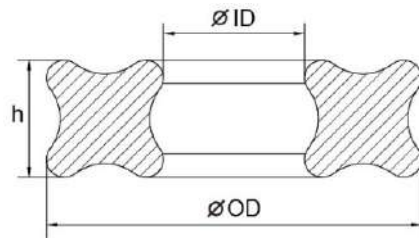
NBR70

425~465

W/T:6.73 (mm)

ITEM	Nominal Size		Actual Size Inch		Actual Size Metric (mm)	
	ID	OD	ID	Tol. +/-	ID	Tol. +/-
444	7 3/4	8 1/4	7.725	0.034	196.22	0.86
445	8	8 1/2	7.975	0.035	202.57	0.89
446	8 1/2	9	8.475	0.037	215.27	0.94
447	9	9 1/2	8.975	0.039	227.97	0.99
448	9 1/2	10	9.475	0.041	240.67	1.04
449	10	10 1/2	9.975	0.043	253.37	1.09
450	10 1/2	11	10.475	0.045	266.07	1.14
451	11	11 1/2	10.975	0.047	278.77	1.19
452	11 1/2	12	11.475	0.049	291.47	1.24
453	12	12 1/2	11.975	0.051	304.17	1.3
454	12 1/2	13	12.475	0.053	316.87	1.35
455	13	13 1/2	12.975	0.055	329.57	1.4
456	13 1/2	14	13.475	0.057	342.27	1.45
457	14	14 1/2	13.975	0.059	354.97	1.5
458	14 1/2	15	14.475	0.061	367.67	1.55
459	15	15 1/2	14.975	0.063	380.37	1.6
460	15 1/2	16	15.475	0.065	393.07	1.65
461	16	16 1/2	15.955	0.067	405.27	1.7
462	16 1/2	17	16.455	0.069	417.97	1.75
463	17	17 1/2	16.955	0.071	430.67	2.8
464	17 1/2	18	17.455	0.073	443.37	2.85
465	18	18 1/2	17.955	0.075	456.07	2.91

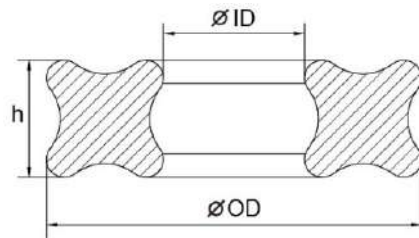
X-RING



NBR70

ITEM	ID	C/S	VOL(cm ³)	ITEM	ID	C/S	VOL(cm ³)
* 001	0.74	1.02	0.005	* 043	88.62	1.78	0.707
* 002	1.07	1.27	0.009	* 044	94.97	1.78	0.756
* 003	1.42	1.53	0.017	* 045	101.32	1.78	0.806
* 004	1.78	1.78	0.028	* 046	107.62	1.78	0.855
* 005	2.57	1.78	0.034	* 047	114.02	1.78	0.905
* 006	2.90	1.78	0.037	* 048	120.37	1.78	0.955
* 007	3.69	1.78	0.043	* 049	126.72	1.78	1.005
* 008	4.47	1.78	0.049	* 050	133.07	1.78	1.054
* 009	5.29	1.78	0.055	* 102	1.24	2.62	0.065
* 010	6.07	1.78	0.061	* 103	2.05	2.62	0.079
* 011	7.65	1.78	0.074	* 104	2.84	2.62	0.092
* 012	9.25	1.78	0.086	* 105	3.63	2.62	0.106
013	10.82	1.78	0.099	* 106	4.42	2.62	0.119
014	12.42	1.78	0.111	* 107	5.23	2.62	0.133
* 015	14.00	1.78	0.123	* 108	6.02	2.62	0.146
016	15.60	1.78	0.136	* 109	7.60	2.62	0.173
* 017	17.17	1.78	0.148	* 110	9.19	2.62	0.200
018	18.77	1.78	0.161	* 111	10.77	2.62	0.227
* 019	20.35	1.78	0.173	* 112	12.37	2.62	0.254
* 020	21.95	1.78	0.186	113	13.95	2.62	0.281
* 021	23.52	1.78	0.198	114	15.54	2.62	0.308
* 022	25.12	1.78	0.210	115	17.12	2.62	0.334
023	26.70	1.78	0.223	116	18.72	2.62	0.361
* 024	28.30	1.78	0.235	* 117	20.29	2.62	0.388
* 025	29.87	1.78	0.247	* 118	21.90	2.62	0.415
* 026	31.47	1.78	0.260	* 119	23.47	2.62	0.442
027	33.05	1.78	0.272	* 120	25.07	2.62	0.469
028	34.65	1.78	0.285	121	26.65	2.62	0.496
* 029	37.82	1.78	0.310	* 122	28.25	2.62	0.523
030	41.00	1.78	0.334	* 123	29.82	2.62	0.549
* 031	44.17	1.78	0.359	124	31.42	2.62	0.577
* 032	47.35	1.78	0.384	125	32.99	2.62	0.603
033	50.52	1.78	0.409	126	34.60	2.62	0.630
034	53.70	1.78	0.434	* 127	36.17	2.62	0.657
* 035	56.87	1.78	0.459	128	37.77	2.62	0.684
* 036	60.04	1.78	0.483	* 129	39.35	2.62	0.711
* 037	63.22	1.78	0.508	* 130	40.95	2.62	0.738
* 038	66.40	1.78	0.533	131	42.52	2.62	0.765
* 039	69.57	1.78	0.558	* 132	44.12	2.62	0.792
* 040	72.75	1.78	0.583	* 133	45.70	2.62	0.818
* 041	75.92	1.78	0.607	134	47.30	2.62	0.846
* 042	82.27	1.78	0.657	* 135	48.90	2.62	0.873

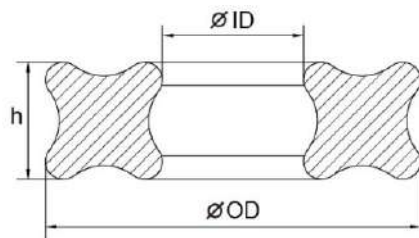
X-RING



NBR70

ITEM	ID	C/S	VOL(cm ³)	ITEM	ID	C/S	VOL(cm ³)
* 136	50.47	2.62	0.899	* 178	247.3	2.62	4.233
137	52.07	2.62	0.926	* 201	4.34	3.53	0.242
* 138	53.65	2.62	0.953	* 202	5.94	3.53	0.291
139	55.25	2.62	0.980	* 203	7.52	3.53	0.340
140	56.82	2.62	1.007	* 204	9.12	3.53	0.389
141	58.40	2.62	1.034	* 205	10.69	3.53	0.437
* 142	60.00	2.62	1.061	* 206	12.29	3.53	0.486
* 143	61.00	2.62	1.078	207	13.87	3.53	0.535
144	63.10	2.62	1.113	208	15.47	3.53	0.584
145	64.70	2.62	1.140	209	17.04	3.53	0.632
* 146	66.30	2.62	1.167	210	18.64	3.53	0.682
147	67.90	2.62	1.194	211	20.22	3.53	0.730
* 148	69.50	2.62	1.222	212	21.82	3.53	0.779
149	71.10	2.62	1.249	213	23.40	3.53	0.828
150	72.70	2.62	1.276	214	24.99	3.53	0.877
151	75.87	2.62	1.329	215	26.57	3.53	0.925
152	82.22	2.62	1.437	216	28.17	3.53	0.975
153	88.57	2.62	1.545	217	29.75	3.53	1.023
154	94.92	2.62	1.652	218	31.34	3.53	1.072
155	101.2	2.62	1.758	219	32.92	3.53	1.121
* 156	107.6	2.62	1.867	220	34.52	3.53	1.170
* 157	113.9	2.62	1.974	221	36.10	3.53	1.218
158	120.3	2.62	2.082	222	37.70	3.53	1.268
* 159	126.6	2.62	2.189	223	40.87	3.53	1.365
160	133.0	2.62	2.297	224	44.05	3.53	1.463
* 161	139.3	2.62	2.404	225	47.22	3.53	1.560
* 162	145.7	2.62	2.512	226	50.40	3.53	1.658
* 163	152.0	2.62	2.619	227	53.57	3.53	1.756
* 164	158.7	2.62	2.732	228	56.75	3.53	1.853
* 165	164.7	2.62	2.834	229	59.92	3.53	1.951
* 166	171.1	2.62	2.942	230	63.10	3.53	2.049
* 167	177.4	2.62	3.049	231	66.27	3.53	2.146
* 168	183.8	2.62	3.157	232	69.44	3.53	2.244
* 169	190.1	2.62	3.264	233	72.62	3.53	2.341
* 170	196.5	2.62	3.373	* 234	75.79	3.53	2.439
* 171	202.8	2.62	3.479	235	78.97	3.53	2.537
* 172	209.2	2.62	3.588	236	82.14	3.53	2.634
* 173	215.5	2.62	3.694	237	85.32	3.53	2.732
* 174	221.9	2.62	3.803	238	88.49	3.53	2.829
* 175	228.6	2.62	3.916	239	91.67	3.53	2.927
* 176	234.6	2.62	4.018	240	94.84	3.53	3.025
* 177	240.9	2.62	4.125	241	98.02	3.53	3.122

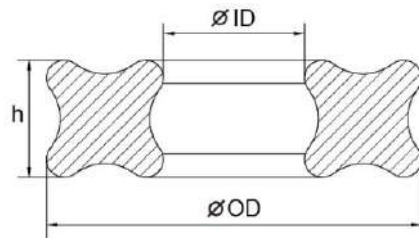
X-RING



NBR70

ITEM	ID	C/S	VOL(cm ³)	ITEM	ID	C/S	VOL(cm ³)
242	101.20	3.53	3.220	* 309	10.46	5.33	1.107
243	104.37	3.53	3.318	* 310	12.07	5.33	1.220
244	107.54	3.53	3.415	* 311	13.64	5.33	1.330
* 245	110.72	3.53	3.513	* 312	15.24	5.33	1.442
246	113.89	3.53	3.610	* 313	16.81	5.33	1.552
247	117.05	3.53	3.707	* 314	18.42	5.33	1.665
248	120.24	3.53	3.805	315	19.99	5.33	1.775
* 249	123.42	3.53	3.903	* 316	21.59	5.33	1.887
* 250	126.59	3.53	4.001	* 317	23.16	5.33	1.997
* 251	129.77	3.53	4.098	* 318	24.77	5.33	2.110
252	132.94	3.53	4.196	* 319	26.34	5.33	2.220
* 253	136.12	3.53	4.294	* 320	27.94	5.33	2.332
* 254	139.3	3.53	4.391	* 321	29.51	5.33	2.442
* 255	142.47	3.53	4.489	* 322	31.12	5.33	2.555
* 256	145.65	3.53	4.587	* 323	32.69	5.33	2.665
* 257	148.82	3.53	4.684	* 324	34.29	5.33	2.777
* 258	152.00	3.53	4.782	325	37.47	5.33	3.000
* 259	158.35	3.53	4.977	326	40.65	5.33	3.223
* 260	164.70	3.53	5.172	* 327	43.82	5.33	3.445
261	171.05	3.53	5.368	* 328	46.99	5.33	3.667
* 262	177.40	3.53	5.563	* 329	50.16	5.33	3.890
* 263	183.75	3.53	5.758	* 330	53.34	5.33	4.113
* 264	190.10	3.53	5.953	331	56.52	5.33	4.335
* 265	196.45	3.53	6.149	332	59.69	5.33	4.558
* 266	202.80	3.53	6.344	* 333	62.87	5.33	4.781
* 267	209.15	3.53	6.539	334	66.04	5.33	5.003
* 268	215.50	3.53	6.734	335	69.22	5.33	5.226
* 269	221.85	3.53	6.930	336	72.39	5.33	5.448
* 270	228.20	3.53	7.125	337	75.60	5.33	5.673
* 271	234.55	3.53	7.320	* 338	78.74	5.33	5.893
* 272	240.90	3.53	7.515	339	81.92	5.33	6.116
* 273	247.25	3.53	7.711	340	85.09	5.33	6.338
* 274	253.60	3.53	7.906	341	88.27	5.33	6.561
* 275	266.30	3.53	8.296	* 342	91.44	5.33	6.783
* 276	279.00	3.53	8.687	343	94.62	5.33	7.006
* 277	291.70	3.53	9.077	344	97.79	5.33	7.228
* 278	304.40	3.53	9.468	345	100.96	5.33	7.451
* 279	329.80	3.53	10.249	346	104.14	5.33	7.673
* 280	355.20	3.53	11.030	347	107.35	5.33	7.898
* 281	380.60	3.53	11.811	348	110.49	5.33	8.119
* 282	405.26	3.53	12.569	349	113.67	5.33	8.341
* 283	430.66	3.53	13.350	350	116.84	5.33	8.564

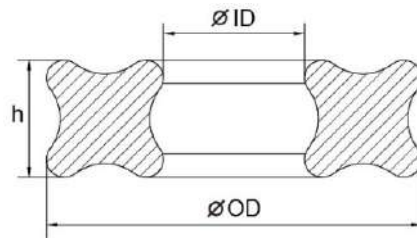
X-RING



NBR70

ITEM	ID	C/S	VOL(cm ³)	ITEM	ID	C/S	VOL(cm ³)
351	120.02	5.33	8.787	* 392	582.65	5.33	41.215
* 352	123.19	5.33	9.009	* 393	608.10	5.33	42.999
* 353	126.37	5.33	9.232	* 394	633.50	5.33	44.780
* 354	129.54	5.33	9.454	* 395	658.85	5.33	46.557
* 355	132.72	5.33	9.677	425	113.67	6.99	14.547
* 356	135.89	5.33	9.899	* 426	116.84	6.99	14.929
* 357	139.07	5.33	10.122	* 427	120.02	6.99	15.312
* 358	142.24	5.33	10.344	* 428	123.19	6.99	15.694
* 359	145.42	5.33	10.567	* 429	126.37	6.99	16.078
* 360	148.59	5.33	10.789	430	129.54	6.99	16.460
* 361	151.77	5.33	11.012	* 431	132.72	6.99	16.843
* 362	158.12	5.33	11.457	* 432	135.89	6.99	17.225
* 363	164.47	5.33	11.902	* 433	139.07	6.99	17.609
* 364	170.82	5.33	12.347	* 434	142.24	6.99	17.991
* 365	177.17	5.33	12.793	435	145.42	6.99	18.374
* 366	183.52	5.33	13.238	* 436	148.59	6.99	18.756
* 367	189.87	5.33	13.683	437	151.77	6.99	19.140
* 368	196.22	5.33	14.128	438	158.12	6.99	19.905
* 369	202.57	5.33	14.573	439	164.47	6.99	20.671
* 370	208.92	5.33	15.018	* 440	170.82	6.99	21.436
* 371	215.27	5.33	15.463	* 441	177.17	6.99	22.202
* 372	221.62	5.33	15.908	* 442	183.52	6.99	22.968
* 373	227.97	5.33	16.354	* 443	189.00	6.99	23.628
* 374	234.32	5.33	16.799	* 444	196.22	6.99	24.499
* 375	240.67	5.33	17.244	* 445	202.57	6.99	25.264
* 376	247.02	5.33	17.689	* 446	215.27	6.99	26.795
* 377	253.37	5.33	18.134	* 447	227.97	6.99	28.326
* 378	266.07	5.33	19.024	* 448	240.67	6.99	29.857
* 379	278.77	5.33	19.914	* 449	253.37	6.99	31.388
* 380	291.47	5.33	20.805	* 450	266.07	6.99	32.920
* 381	304.17	5.33	21.695	* 451	278.77	6.99	34.451
* 382	329.55	5.33	23.474	* 452	291.47	6.99	35.982
* 383	354.97	5.33	25.256	* 453	304.17	6.99	37.513
* 384	380.37	5.33	27.036	* 454	316.87	6.99	39.044
* 385	405.26	5.33	28.781	* 455	329.57	6.99	40.575
* 386	430.65	5.33	30.561	* 456	342.27	6.99	42.106
* 284	456.06	5.33	32.342	* 457	354.97	6.99	43.637
* 387	456.06	5.33	32.342	* 458	367.67	6.99	45.168
* 388	481.46	5.33	34.122	* 459	380.37	6.99	46.699
* 389	506.86	5.33	35.903	* 460	393.03	6.99	48.226
* 390	532.26	5.33	37.683	* 461	405.26	6.99	49.700
* 391	557.66	5.33	39.464	* 462	417.96	6.99	51.231

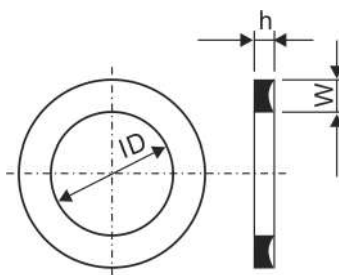
X-RING



NBR70

ITEM	ID	C/S	VOL(cm ³)	ITEM	ID	C/S	VOL(cm ³)
* 463	430.66	6.99	52.762	* 470	532.26	6.99	65.011
* 464	443.36	6.99	54.293	* 471	557.66	6.99	68.073
* 465	456.06	6.99	55.824	* 472	582.65	6.99	71.086
* 466	468.76	6.99	57.355	* 473	608.10	6.99	74.154
* 467	481.46	6.99	58.887	* 474	633.50	6.99	77.216
* 468	494.16	6.99	60.418	* 475	658.85	6.99	80.272
* 469	506.86	6.99	61.949				

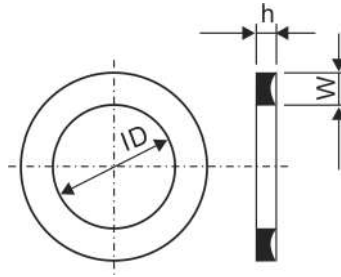
BACKUP RING—AS-568 SERIES



NBR90

ITEM	ID	W	h	ITEM	ID	W	h
* 004	2.44	1.35	1.24	* 045	102.06	1.35	1.24
* 005	3.23	1.35	1.24	* 046	108.41	1.35	1.24
* 006	3.56	1.35	1.24	* 047	114.76	1.35	1.24
* 007	4.34	1.35	1.24	* 048	121.11	1.35	1.24
008	5.13	1.35	1.24	* 049	127.46	1.35	1.24
* 009	5.94	1.35	1.24	* 050	133.81	1.35	1.24
* 010	6.73	1.35	1.24	* 102	1.96	2.18	1.35
* 011	8.31	1.35	1.24	* 103	2.77	2.18	1.35
012	9.91	1.35	1.24	* 104	3.56	2.18	1.35
* 013	11.56	1.35	1.24	* 105	4.34	2.18	1.35
014	13.16	1.35	1.24	* 106	5.13	2.18	1.35
015	14.73	1.35	1.24	* 107	5.91	2.18	1.35
016	16.33	1.35	1.24	* 108	6.73	2.18	1.35
017	17.91	1.35	1.24	* 109	8.31	2.18	1.35
018	19.51	1.35	1.24	110	9.91	2.18	1.35
* 019	21.08	1.35	1.24	* 111	11.48	2.18	1.35
* 020	22.68	1.35	1.24	* 112	13.08	2.18	1.35
021	24.26	1.35	1.24	* 113	14.66	2.18	1.35
* 022	25.86	1.35	1.24	* 114	16.26	2.18	1.35
* 023	27.43	1.35	1.24	115	17.83	2.18	1.35
* 024	29.03	1.35	1.24	* 116	19.43	2.18	1.35
025	30.61	1.35	1.24	* 117	21.11	2.18	1.35
026	32.21	1.35	1.24	* 118	22.68	2.18	1.35
027	33.78	1.35	1.24	* 119	24.28	2.18	1.35
* 028	35.38	1.35	1.24	120	25.86	2.18	1.35
* 029	38.56	1.35	1.24	121	27.46	2.18	1.35
* 030	41.73	1.35	1.24	* 122	29.03	2.18	1.35
* 031	44.91	1.35	1.24	123	30.63	2.18	1.35
* 032	48.08	1.35	1.24	124	32.21	2.18	1.35
* 033	51.26	1.35	1.24	125	33.81	2.18	1.35
* 034	54.43	1.35	1.24	126	35.38	2.18	1.35
* 035	57.61	1.35	1.24	127	36.98	2.18	1.35
* 036	60.78	1.35	1.24	128	38.56	2.18	1.35
* 037	63.96	1.35	1.24	* 129	40.16	2.18	1.35
* 038	67.13	1.35	1.24	130	41.73	2.18	1.35
* 039	70.31	1.35	1.24	131	43.33	2.18	1.35
* 040	73.48	1.35	1.24	132	44.91	2.18	1.35
* 041	76.66	1.35	1.24	133	46.51	2.18	1.35
* 042	83.01	1.35	1.24	134	48.08	2.18	1.35
* 043	89.36	1.35	1.24	* 135	49.68	2.18	1.35
* 044	95.71	1.35	1.24	* 136	51.26	2.18	1.35

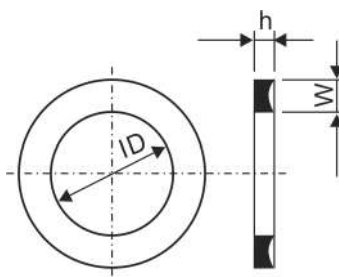
BACKUP RING—AS-568 SERIES



NBR90

ITEM	ID	W	h	ITEM	ID	W	h
* 137	52.86	2.18	1.35	* 178	248.11	2.18	1.35
* 138	54.43	2.18	1.35	* 201	5.13	3	1.27
* 139	56.03	2.18	1.35	* 202	6.73	3	1.27
140	57.61	2.18	1.35	* 203	8.31	3	1.27
* 141	59.21	2.18	1.35	* 204	9.91	3	1.27
* 142	60.78	2.18	1.35	* 205	11.56	3	1.27
* 143	62.38	2.18	1.35	* 206	13.16	3	1.27
* 144	63.96	2.18	1.35	207	14.73	3	1.27
* 145	65.56	2.18	1.35	* 208	16.33	3	1.27
* 146	67.13	2.18	1.35	* 209	17.91	3	1.27
* 147	68.73	2.18	1.35	* 210	19.46	3	1.27
* 148	70.31	2.18	1.35	211	21.03	3	1.27
* 149	71.91	2.18	1.35	* 212	22.63	3	1.27
* 150	73.48	2.18	1.35	* 213	24.21	3	1.27
* 151	76.66	2.18	1.35	* 214	25.81	3	1.27
* 152	83.01	2.18	1.35	* 215	27.38	3	1.27
* 153	89.36	2.18	1.35	* 216	28.98	3	1.27
* 154	95.71	2.18	1.35	* 217	30.56	3	1.27
* 155	102.06	2.18	1.35	218	32.16	3	1.27
* 156	108.41	2.18	1.35	* 219	33.88	3	1.27
* 157	114.76	2.18	1.35	* 220	35.48	3	1.27
* 158	121.11	2.18	1.35	* 221	37.06	3	1.27
* 159	127.46	2.18	1.35	* 222	38.66	3	1.27
* 160	133.81	2.18	1.35	* 223	41.83	3	1.27
* 161	140.16	2.18	1.35	224	45.01	3	1.27
* 162	146.51	2.18	1.35	* 225	48.18	3	1.27
* 163	152.86	2.18	1.35	* 226	51.36	3	1.27
* 164	159.21	2.18	1.35	* 227	54.53	3	1.27
* 165	165.56	2.18	1.35	228	57.71	3	1.27
* 166	171.91	2.18	1.35	229	60.88	3	1.27
* 167	178.26	2.18	1.35	* 230	64.06	3	1.27
* 168	184.61	2.18	1.35	* 231	66.83	3	1.27
* 169	190.96	2.18	1.35	232	70.00	3	1.27
* 170	197.31	2.18	1.35	* 233	73.18	3	1.27
* 171	203.66	2.18	1.35	234	76.35	3	1.27
* 172	210.01	2.18	1.35	* 235	79.53	3	1.27
* 173	216.36	2.18	1.35	236	82.70	3	1.27
* 174	222.71	2.18	1.35	* 237	85.88	3	1.27
* 175	229.06	2.18	1.35	* 238	89.05	3	1.27
* 176	235.41	2.18	1.35	* 239	92.23	3	1.27
* 177	241.76	2.18	1.35	240	95.40	3	1.27

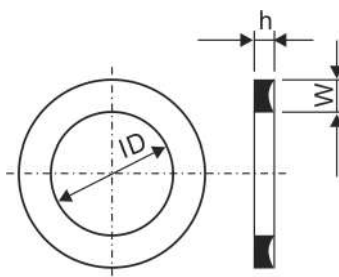
BACKUP RING—AS-568 SERIES



NBR90

ITEM	ID	W	h	ITEM	ID	W	h
* 241	98.58	3	1.27	* 282	406.12	3	1.27
* 242	101.75	3	1.27	* 283	431.52	3	1.27
* 243	104.93	3	1.27	* 284	456.92	3	1.27
* 244	108.10	3	1.27	* 309	11.43	4.65	1.93
* 245	111.28	3	1.27	* 310	13.03	4.65	1.93
246	114.45	3	1.27	* 311	14.61	4.65	1.93
* 247	117.63	3	1.27	* 312	16.21	4.65	1.93
* 248	121.11	3	1.27	* 313	17.78	4.65	1.93
* 249	124.28	3	1.27	* 314	19.38	4.65	1.93
250	127.46	3	1.27	* 315	20.96	4.65	1.93
* 251	130.63	3	1.27	* 316	22.56	4.65	1.93
252	133.81	3	1.27	* 317	24.13	4.65	1.93
* 253	136.98	3	1.27	* 318	25.74	4.65	1.93
* 254	140.16	3	1.27	* 319	27.31	4.65	1.93
* 255	143.33	3	1.27	* 320	28.91	4.65	1.93
* 256	146.51	3	1.27	* 321	30.42	4.65	1.93
* 257	149.68	3	1.27	* 322	32.08	4.65	1.93
* 258	152.86	3	1.27	* 323	33.43	4.65	1.93
* 259	159.21	3	1.27	* 324	35.26	4.65	1.93
* 260	165.56	3	1.27	* 325	38.43	4.65	1.93
261	171.91	3	1.27	* 326	41.61	4.65	1.93
262	178.26	3	1.27	* 327	44.78	4.65	1.93
* 263	184.61	3	1.27	* 328	47.96	4.65	1.93
* 264	190.96	3	1.27	* 329	51.13	4.65	1.93
* 265	197.31	3	1.27	* 330	54.31	4.65	1.93
266	203.66	3	1.27	* 331	57.61	4.65	1.93
* 267	210.01	3	1.27	* 332	60.78	4.65	1.93
* 268	216.36	3	1.27	* 333	63.96	4.65	1.93
* 269	222.71	3	1.27	* 334	67.13	4.65	1.93
* 270	229.06	3	1.27	* 335	70.31	4.65	1.93
* 271	235.41	3	1.27	* 336	73.48	4.65	1.93
* 272	241.76	3	1.27	* 337	76.66	4.65	1.93
* 273	248.11	3	1.27	338	79.83	4.65	1.93
* 274	254.46	3	1.27	* 339	83.13	4.65	1.93
* 275	267.16	3	1.27	* 340	86.31	4.65	1.93
* 276	279.86	3	1.27	* 341	89.48	4.65	1.93
* 277	292.56	3	1.27	* 342	92.66	4.65	1.93
* 278	305.26	3	1.27	* 343	95.83	4.65	1.93
* 279	330.66	3	1.27	* 344	99.01	4.65	1.93
* 280	356.06	3	1.27	* 345	102.31	4.65	1.93
* 281	381.46	3	1.27	* 346	105.49	4.65	1.93

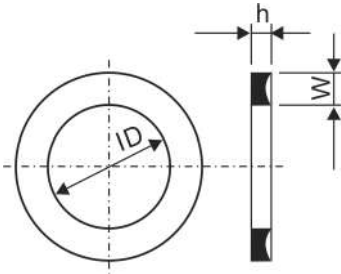
BACKUP RING—AS-568 SERIES



NBR90

ITEM	ID	W	h	ITEM	ID	W	h
* 347	108.66	4.65	1.93	* 359	146.76	4.65	1.93
* 348	111.84	4.65	1.93	* 360	149.94	4.65	1.93
* 349	115.01	4.65	1.93	* 361	153.11	4.65	1.93
350	118.19	4.65	1.93	* 362	159.46	4.65	1.93
* 351	121.36	4.65	1.93	363	165.81	4.65	1.93
* 352	124.54	4.65	1.93	* 364	172.16	4.65	1.93
* 353	127.71	4.65	1.93	* 365	178.51	4.65	1.93
* 354	130.89	4.65	1.93	* 366	184.86	4.65	1.93
* 355	134.06	4.65	1.93	* 434	144.17	5.99	2.97
* 356	137.24	4.65	1.93	* 435	147.35	5.99	2.97
* 357	140.41	4.65	1.93	* 436	150.52	5.99	2.97
* 367	191.21	4.65	1.93	437	153.70	5.99	2.97
* 368	197.56	4.65	1.93	* 438	159.36	5.99	2.97
369	203.91	4.65	1.93	* 439	165.71	5.99	2.97
* 370	210.26	4.65	1.93	* 440	172.06	5.99	2.97
* 371	216.61	4.65	1.93	* 441	178.41	5.99	2.97
* 372	222.96	4.65	1.93	* 442	184.76	5.99	2.97
* 373	229.31	4.65	1.93	* 443	191.11	5.99	2.97
* 374	235.66	4.65	1.93	* 444	197.46	5.99	2.97
* 375	242.01	4.65	1.93	* 445	203.81	5.99	2.97
* 376	248.36	4.65	1.93	* 446	216.51	5.99	2.97
* 377	254.71	4.65	1.93	* 447	229.21	5.99	2.97
* 378	267.41	4.65	1.93	448	241.91	5.99	2.97
* 379	280.11	4.65	1.93	* 449	254.61	5.99	2.97
* 380	292.81	4.65	1.93	* 450	267.31	5.99	2.97
* 381	305.51	4.65	1.93	* 451	280.01	5.99	2.97
* 382	330.91	4.65	1.93	* 452	292.71	5.99	2.97
* 383	356.31	4.65	1.93	* 453	305.41	5.99	2.97
* 384	381.71	4.65	1.93	* 454	318.11	5.99	2.97
* 385	406.60	4.65	1.93	* 425	115.60	5.99	2.97
* 386	432.00	4.65	1.93	* 426	118.77	5.99	2.97
* 387	457.40	4.65	1.93	* 427	121.95	5.99	2.97
* 388	482.75	4.65	1.93	* 428	125.12	5.99	2.97
* 389	508.15	4.65	1.93	* 429	128.30	5.99	2.97
* 390	533.55	4.65	1.93	* 430	131.47	5.99	2.97
* 391	558.95	4.65	1.93	* 431	134.65	5.99	2.97
* 392	584.02	4.65	1.93	* 432	137.82	5.99	2.97
* 393	609.42	4.65	1.93	* 433	141.00	5.99	2.97
* 394	634.82	4.65	1.93	* 455	330.81	5.99	2.97
* 395	660.22	4.65	1.93	* 456	343.51	5.99	2.97
* 358	143.59	4.65	1.93	* 457	356.21	5.99	2.97

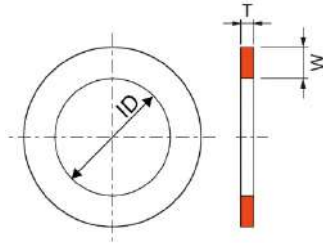
BACKUP RING—AS-568 SERIES



NBR90

ITEM	ID	W	h	ITEM	ID	W	h
* 458	368.91	5.99	2.97	* 467	482.70	5.99	2.97
* 459	381.61	5.99	2.97	* 468	495.40	5.99	2.97
* 460	394.31	5.99	2.97	* 469	508.10	5.99	2.97
* 461	406.50	5.99	2.97	* 470	533.50	5.99	2.97
* 462	419.20	5.99	2.97	* 471	558.90	5.99	2.97
* 463	431.90	5.99	2.97	* 472	584.30	5.99	2.97
* 464	444.60	5.99	2.97	* 473	609.70	5.99	2.97
* 465	457.30	5.99	2.97	* 474	635.10	5.99	2.97
* 466	470.00	5.99	2.97	* 475	660.50	5.99	2.97

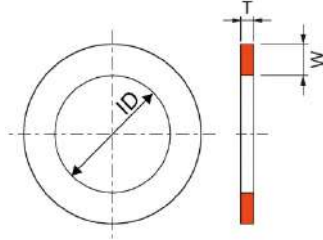
BACKUP RING FOR AS-568 SERIES ORING



APPLICATION		
MATERIAL	HY	PTFE
TEMP.	-67°F~248°F	-55°F~200°F

DASH NO.	DASH NO.	DASH NO.	DASH NO.
* 008	* 120	* 215	256
* 009	121	* 216	* 257
* 010	* 122	* 217	* 258
011	123	218	259
012	124	* 219	* 260
013	* 125	* 220	261
014	126	* 221	* 262
015	127	222	* 263
016	* 128	* 223	* 264
017	* 129	224	* 265
018	* 130	* 225	* 266
019	131	226	* 267
020	* 132	227	* 268
021	* 133	228	* 269
* 022	134	* 229	* 270
* 023	* 136	230	* 271
* 024	* 137	* 231	* 272
* 025	* 140	232	* 273
* 026	* 141	233	* 274
* 027	* 142	234	* 279
* 028	* 143	235	* 309
* 029	* 144	236	* 316
* 030	* 145	* 237	* 318
* 031	* 146	238	* 322
* 032	* 147	239	324
* 033	* 148	240	* 325
* 034	149	* 241	* 326
* 035	* 152	242	* 327
* 036	* 153	* 243	328
* 040	* 154	244	329
* 043	* 155	245	330
* 110	* 159	246	* 331
* 111	* 160	* 247	332
* 112	* 163	248	* 333
* 113	* 206	* 249	334
* 114	* 209	250	* 335
* 115	* 210	* 251	* 336
* 116	* 211	252	* 337
* 117	* 212	* 253	338
* 118	213	254	* 339
* 119	214	* 255	340
341	* 356	* 434	* 449

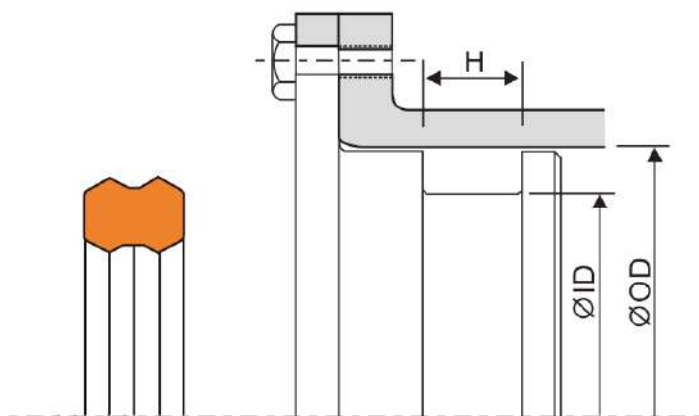
BACKUP RING FOR AS-568 SERIES ORING



APPLICATION		
MATERIAL	HY	PTFE
TEMP.	-67°F~248°F	-55°F~200°F

DASH NO.	DASH NO.	DASH NO.	DASH NO.
342	* 357	* 435	* 450
343	358	* 436	* 451
* 344	* 359	* 437	* 452
345	* 361	* 438	* 453
346	* 370	439	454
* 347	425	* 440	* 455
348	* 426	* 441	* 456
* 349	* 427	* 442	* 457
350	* 428	443	* 458
* 351	* 429	* 444	* 459
* 352	* 430	* 445	* 460
353	* 431	* 446	
354	* 432	* 447	
* 355	433	* 448	

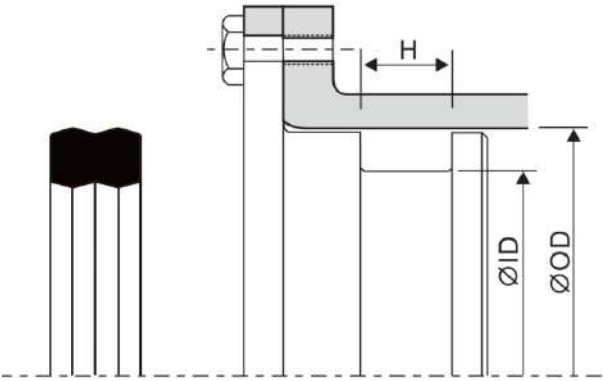
HEAD SEAL- HI



APPLICATION		
MATERIAL	PU	NBR
TEMP.	-40°F~212°F	-40°F~212°F
PRESSURE	7000psi	7000psi

ITEM	OD	ID	H	ITEM	OD	ID	H
HI-039	2.875	2.738	0.138	HI-256	6.000	5.778	0.208
HI-160	5.438	5.276	0.171	HI-257	6.125	5.903	0.208
HI-218	1.500	1.278	0.208	HI-258	6.250	6.028	0.208
HI-222	1.750	1.528	0.208	HI-259	6.500	6.278	0.208
HI-224	2.000	1.778	0.208	HI-260	6.750	6.528	0.208
HI-226	2.250	2.028	0.208	HI-261	7.000	6.778	0.208
HI-227	2.375	2.153	0.208	HI-262	7.250	7.028	0.208
HI-228	2.500	2.278	0.208	HI-263	7.500	7.278	0.208
HI-230	2.750	2.528	0.208	HI-265	8.000	7.778	0.208
HI-232	3.000	2.778	0.208	HI-268	8.750	8.528	0.208
HI-234	3.250	3.028	0.208	HI-326	2.000	1.660	0.311
HI-235	3.375	3.153	0.208	HI-328	2.250	1.910	0.311
HI-236	3.500	3.278	0.208	HI-330	2.500	2.160	0.311
HI-237	3.625	3.403	0.208	HI-332	2.750	2.410	0.311
HI-238	3.750	3.528	0.208	HI-338	3.500	3.160	0.311
HI-239	3.875	3.653	0.208	HI-340	3.750	3.410	0.311
HI-240	4.000	3.778	0.208	HI-342	4.000	3.660	0.311
HI-241	4.125	3.903	0.208	HI-343	4.125	3.785	0.299
HI-242	4.250	4.028	0.208	HI-344	4.250	3.910	0.311
HI-243	4.375	4.153	0.208	HI-346	4.500	4.160	0.311
HI-244	4.500	4.278	0.208	HI-347	4.625	4.285	0.311
HI-245	4.625	4.403	0.208	HI-348	4.750	4.410	0.311
HI-246	4.750	4.528	0.208	HI-350	5.000	4.660	0.311
HI-247	4.875	4.653	0.208	HI-352	5.250	4.910	0.311
HI-248	5.000	4.778	0.208	HI-353	5.375	5.035	0.311
HI-249	5.125	4.903	0.208	HI-354	5.500	5.160	0.311
HI-250	5.250	5.028	0.208	HI-356	5.750	5.410	0.311
HI-251	5.375	5.153	0.208	HI-358	6.000	5.660	0.311
HI-252	5.500	5.278	0.208	HI-360	6.250	5.910	0.311
HI-253	5.625	5.403	0.208	HI-361	6.375	6.035	0.311
HI-254	5.750	5.528	0.208	* HI-429	5.500	5.048	0.408
HI-255	5.875	5.653	0.208	* HI-433	6.000	5.548	0.408
* HI-437	6.500	6.048	0.408	* HI-448	10.000	9.548	0.408
* HI-439	7.000	6.548	0.408	* HI-452	12.000	11.548	0.408
* HI-443	8.000	7.548	0.408	HI-343A	4.125	3.728	0.270
* HI-446	9.000	8.548	0.408				

FLANGE STATIC SEAL



APPLICATION	
MATERIAL	NBR
TEMP.	-40°F~212°F
PRESSURE	7000psi

ITEM	OD	ID	H
HI-N224	2.000	1.734	0.175
HI-N228	2.500	2.233	0.175
HI-N232	3.000	2.778	0.175
HI-N236	3.500	3.278	0.175
HI-N240	4.000	3.778	0.175



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