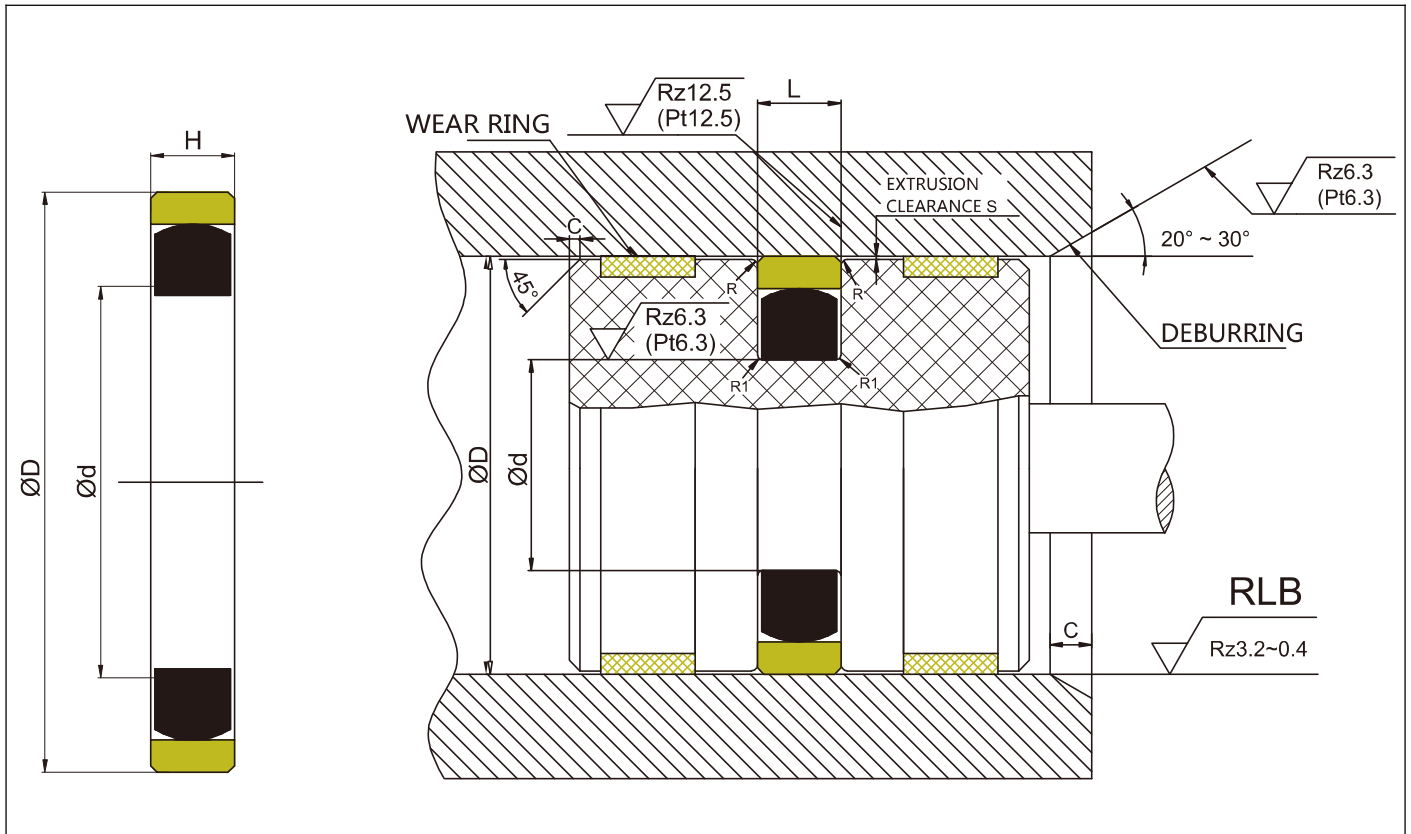




1. Installation Recommendation



2. Installation Sizes

Bore Diameter	Groove Diameter	Groove Width	Radius	Radial Clearance S max.			
D H8	d h8	$L_1+0.2$	R_1	16MPa	26MPa	32MPa	40MPa
55.0-149.9	D-10.0	10.0	0.4	0.60	0.50	0.40	0.40
150.0-244.9	D-12.5	12.5	0.4	0.75	0.65	0.55	0.50
245.0-500.0	D-15.0	15.0	0.8	0.75	0.65	0.55	0.50
500.1-760.0	D-17.5	17.5	1.2	0.75	0.65	0.55	0.50
760.1-999.9	D-20.0	20.0	1.2	0.80	0.70	0.60	0.55
≥ 1000	D-20.0	20.5	1.2	0.80	0.70	0.60	0.55

3. Application and properties

Applied to the hydraulic cylinder of heavy machinery and metallurgical equipment. Pressure resistance and corrosion resistance are strong, good thermal conductivity, structure anti-distortion, low friction, no crawling phenomenon.



GSF - W

4. Standard materials

Sealing ring: filled PTFE

O-Ring: NBR / FKM

5. Working Conditions

Working Conditions				
Diameter Range	Pressure Range	Temperature Range	Speed	Medium
40 - 1600mm	0 - 60MPa	-30°C +100°C	5 m/s	hydraulic oil, flame retardant liquid, water and others

6. Installation Dimensions

Bore Dia.	Groove Dia.	Groove Width	Order No.
D H8	d h8	L+0.2	
55	40	10	GSF-W55*40*10
60	45	10	GSF-W60*45*10
70	55	10	GSF-W70*55*10
80	60	10	GSF-W80*60*10
90	70	10	GSF-W90*70*10
100	80	10	GSF-W100*80*10
110	90	10	GSF-W110*90*10
115	95	10	GSF-W115*95*10
120	100	10	GSF-W120*100*10
130	110	10	GSF-W130*110*10
140	120	10	GSF-W140*120*10
150	125	12.5	GSF-W150*125*12.5
160	135	12.5	GSF-W160*135*12.5
165	140	12.5	GSF-W165*140*12.5
170	145	12.5	GSF-W170*145*12.5
180	155	12.5	GSF-W180*155*12.5
185	160	12.5	GSF-W185*160*12.5
190	165	12.5	GSF-W190*165*12.5
200	175	12.5	GSF-W200*175*12.5
205	180	12.5	GSF-W205*180*12.5
210	185	12.5	GSF-W210*185*12.5
215	190	12.5	GSF-W215*190*12.5
220	195	12.5	GSF-W220*195*12.5
225	200	12.5	GSF-W225*200*12.5
230	205	12.5	GSF-W230*205*12.5
240	215	12.5	GSF-W240*215*12.5
245	215	15	GSF-W245*215*15



GSF - W



Bore Dia.	Groove Dia.	Groove Width	Order No.
D H8	d h8	L+0.2	
250	220	15	GSF-W250*220*15
260	230	15	GSF-W260*230*15
270	240	15	GSF-W270*240*15
275	245	15	GSF-W275*245*15
280	250	15	GSF-W280*250*15
285	255	15	GSF-W285*255*15
290	260	15	GSF-W290*260*15
300	270	15	GSF-W300*270*15
305	275	15	GSF-W305*275*15
310	280	15	GSF-W310*280*15
320	290	15	GSF-W320*290*15
325	295	15	GSF-W325*295*15
330	300	15	GSF-W330*300*15
335	305	15	GSF-W335*305*15
340	310	15	GSF-W340*310*15
350	320	15	GSF-W350*320*15
355	325	15	GSF-W355*325*15
360	330	15	GSF-W360*330*15
370	340	15	GSF-W370*340*15
380	350	15	GSF-W380*350*15
390	360	15	GSF-W390*360*15
400	370	15	GSF-W400*370*15
455	420	17.5	GSF-W455*420*17.5
460	425	17.5	GSF-W460*425*17.5
470	435	17.5	GSF-W470*435*17.5
475	440	17.5	GSF-W475*440*17.5
510	475	17.5	GSF-W510*475*17.5
530	495	17.5	GSF-W530*495*17.5
540	505	17.5	GSF-W540*505*17.5
550	515	17.5	GSF-W550*515*17.5
560	525	17.5	GSF-W560*525*17.5
570	535	17.5	GSF-W570*535*17.5
580	545	17.5	GSF-W580*545*17.5
590	555	17.5	GSF-W590*555*17.5
600	565	17.5	GSF-W600*565*17.5
610	575	17.5	GSF-W610*575*17.5
620	585	17.5	GSF-W620*585*17.5
630	595	17.5	GSF-W630*595*17.5
640	605	17.5	GSF-W640*605*17.5



GSF - W

Bore Dia.	Groove Dia.	Groove Width	Order No.
D H8	d h8	L+0.2	
650	615	17.5	GSF-W650*615*17.5
655	620	17.5	GSF-W655*620*17.5
660	625	17.5	GSF-W660*625*17.5
670	635	17.5	GSF-W670*635*17.5
680	645	17.5	GSF-W680*645*17.5
690	655	17.5	GSF-W690*655*17.5
700	665	17.5	GSF-W700*665*17.5
720	685	17.5	GSF-W720*685*17.5
750	715	17.5	GSF-W750*715*17.5
780	740	20	GSF-W780*740*20
800	760	20	GSF-W800*760*20
820	780	20	GSF-W820*780*20
850	810	20	GSF-W850*810*20
880	840	20	GSF-W880*840*20
900	860	20	GSF-W900*860*20
950	910	20	GSF-W950*910*20
980	940	20	GSF-W980*940*20
1000	960	20	GSF-W1000*960*20