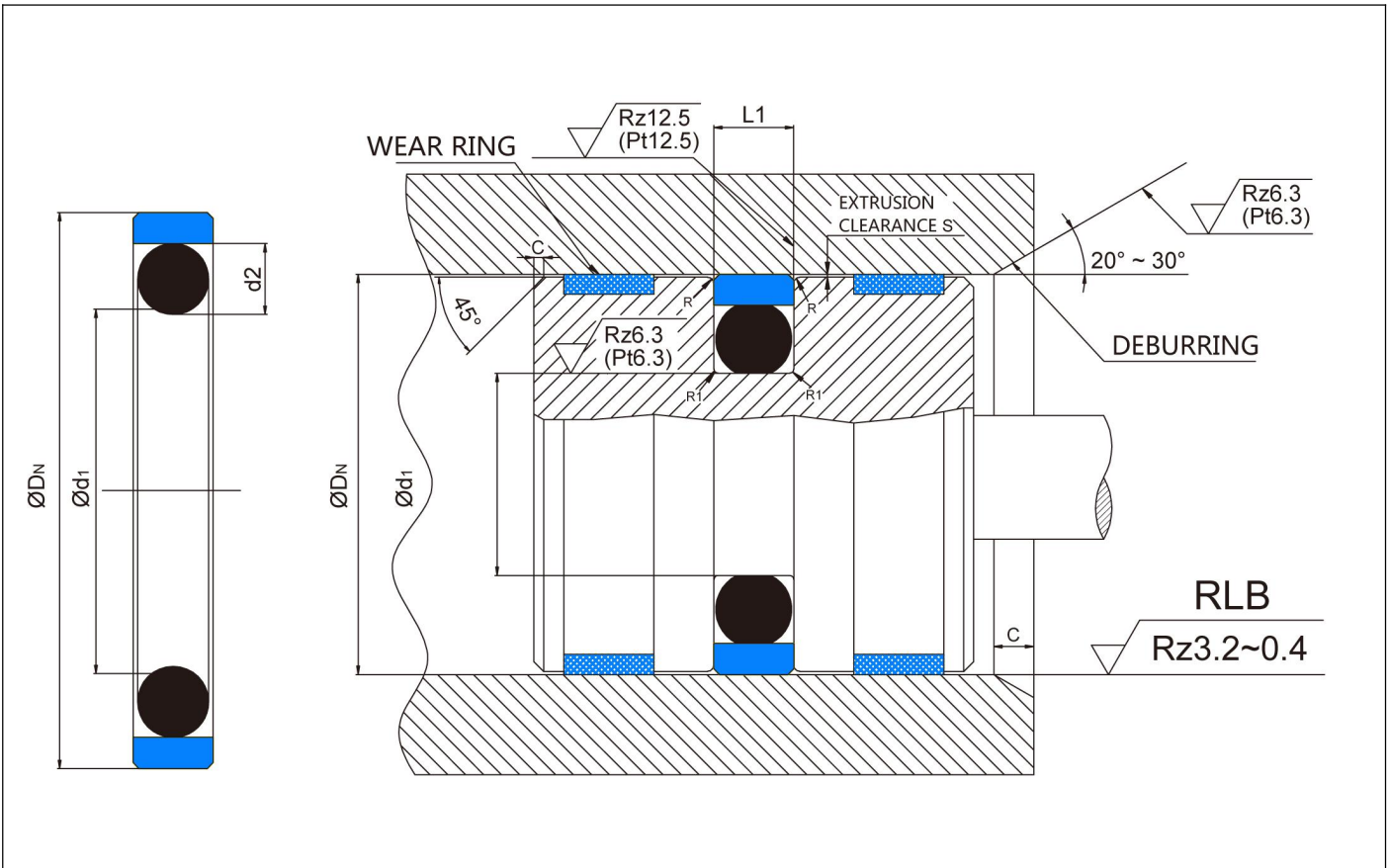


1. Installation Recommendation



2. Installation dimensions - Standard recommendations

Bore Diameter D _N H9			Groove Diameter	Groove Width	Radius	Radial Clearance S max.			O-Ring Cross- Section
Standard Application	Light Application	Heavy Duty Application	d ₁ h9	L ₁ +0.2	R ₁	10MPa	20MPa	40MPa	d ₂
8-14.9	15-39.9	-	D _N -4.9	2.2	0.4	0.3	0.20	0.15	1.78
15-39.9	40-79.9	-	D _N -7.5	3.2	0.6	0.4	0.25	0.15	2.62
40-79.9	80-132.9	15-39.9	D _N -11.0	4.2	1.0	0.4	0.25	0.20	3.53
80-132.9	133-329.9	40-79.9	D _N -15.5	6.3	1.3	0.5	0.30	0.20	5.33
133-329.9	330-699.9	80-132.9	D _N -21.0	8.1	1.8	0.6	0.35	0.25	7.00
330-669.9	670-99.9	133-329.9	D _N -24.5	8.1	1.8	0.6	0.35	0.25	7.00
670-999.9	≥1000	330-669.9	D _N -28.0	9.5	2.5	0.7	0.50	0.30	8.40
≥1000	≥1000	≥1000	D _N -38.0	13.8	3.0	1.0	0.70	0.60	12.00

3. Application and properties

Glyd Ring is a double-acting O-Ring energized piston seal for dynamic applications. Glyd Ring provides low friction with no stick-slip, minimal break out force and high wear resistance. Main application is actuator cylinders. Installed in grooves to ISO 7425.

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4. Standard materials

Sealing ring: filled PTFE

O-Ring: NBR / FKM

5. Working Conditions

Diameter Range	Pressure Range	Temperature Range	Speed	Medium
3 - 1600mm	0 - 60MPa	-45°C +200°C	15 m/s	hydraulic oil, flame retardant liquid, water and others

6. Installation Dimensions

Bore Dia. D _N H9	Groove Dia. d ₁ h9	Groove Width L ₁ +0.2	Order No.	O-Ring Dimensions
8	3.1	2.2	GSF8*3.1*2.2	2.90*1.78
10	5.1	2.2	GSF10*5.1*2.2	4.80*1.8
12	7.1	2.2	GSF12*7.1*2.2	6.70*1.8
14	9.1	2.2	GSF14*9.1*2.2	8.75*1.8
15	10.1	2.2	GSF15*10.1*2.2	7.59*2.62
15	7.5	3.2	GSF15*7.5*3.2	8.75*1.8
16	11.1	2.2	GSF16*11.1*2.2	10.82*1.78
16	8.5	3.2	GSF16*8.5*3.2	7.59*2.62
18	13.1	2.2	GSF18*13.1*2.2	12.42*1.78
18	10.5	3.2	GSF18*10.5*3.2	9.19*2.62
20	15.1	2.2	GSF20*15.1*2.2	14.00*1.78
20	12.5	3.2	GSF20*12.5*3.2	12.37*2.62
24	19.1	2.2	GSF24*19.1*2.2	18.77*1.78
24	16.5	3.2	GSF24*16.5*3.2	15.54*2.62
25	17.5	3.2	GSF25*17.5*3.2	17.12*2.62
25	14	4.2	GSF25*14*4.2	13.87*3.53
28	20.5	3.2	GSF28*20.5*3.2	20.29*2.62
28	17	4.2	GSF28*17*4.2	15.47*3.53
30	22.5	3.2	GSF30*22.5*3.2	21.89*2.62
30	19	4.2	GSF30*19*4.2	26.70*1.78
32	24.5	3.2	GSF32*24.5*3.2	23.47*2.62
32	21	4.2	GSF32*21*4.2	20.22*3.53
35	27.5	3.2	GSF35*27.5*3.2	26.64*2.62
35	24	4.2	GSF35*24*4.2	23.40*3.53
36	28.5	3.2	GSF36*28.5*3.2	28.24*2.62
36	25	4.2	GSF36*25*4.2	23.39*3.53
38	30.5	3.2	GSF38*30.5*3.2	29.82*2.62
38	27	4.2	GSF38*27*4.2	25.86*3.53
40	32.5	3.2	GSF40*32.5*3.2	31.42*2.62
40	29	4.2	GSF40*29*4.2	28.17*3.53

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Bore Dia.	Groove Dia.	Groove Width	Order No.	O-Ring Dimensions
D _N H9	d ₁ h9	L ₁ +0.2		
45	37.5	3.2	GSF45*37.5*3.2	36.5*2.62
45	34	4.2	GSF45*34*4.2	32.92*3.53
48	40.5	3.2	GSF48*40.5*3.2	36.09*3.53
48	37	4.2	GSF48*37*4.2	36.09*3.53
50	39	4.2	GSF50*39*4.2	37.70*3.53
50	34.5	6.3	GSF50*34.5*6.3	32.69*5.33
52	41	4.2	GSF52*41*4.2	40.87*3.53
52	36.5	6.3	GSF52*36.5*6.3	35*5.33
55	44	4.2	GSF55*44*4.2	44.04*3.53
55	39.5	6.3	GSF55*39.5*6.3	38*5.33
56	45	4.2	GSF56*45*4.2	44.04*3.53
56	40.5	6.3	GSF56*40.5*6.3	39*5.33
60	49	4.2	GSF60*49*4.2	47.22*3.53
60	44.5	6.3	GSF60*44.5*6.3	42.5*5.33
63	52	4.2	GSF63*52*4.2	50.39*3.53
63	47.5	6.3	GSF63*47.5*6.3	46*5.33
64	53	4.2	GSF64*53*4.2	51.5*3.53
64	48.5	6.3	GSF64*48.5*6.3	46.99*5.33
65	54	4.2	GSF65*54*4.2	53.57*3.53
65	49.5	6.3	GSF65*49.5*6.3	48*5.33
70	59	4.2	GSF70*59*4.2	56.74*3.53
70	54.5	6.3	GSF70*54.5*6.3	53.34*5.33
75	64	4.2	GSF75*64*4.2	63.09*3.53
75	59.5	6.3	GSF75*59.5*6.3	56.52*5.33
80	69	4.2	GSF80*69*4.2	66.27*3.53
80	64.5	6.3	GSF80*64.5*6.3	62.87*5.33
85	74	4.2	GSF85*74*4.2	72.62*3.53
85	69.5	6.3	GSF85*69.5*6.3	69.22*5.33
90	79	4.2	GSF90*79*4.2	78.97*3.53
90	74.5	6.3	GSF90*74.5*6.3	72.39*5.33
95	84	4.2	GSF95*84*4.2	82.14*3.53
95	79.5	6.3	GSF95*79.5*6.3	78.74*5.33
100	89	4.2	GSF100*89*4.2	88.49*3.53
100	84.5	6.3	GSF100*84.5*6.3	81.92*5.33
105	94	4.2	GSF105*94*4.2	91.67*3.53
105	89.5	6.3	GSF105*89.5*6.3	88.27*5.33
110	99	4.2	GSF110*99*4.2	98.02*3.53
110	94.5	6.3	GSF110*94.5*6.3	91.44*5.33
115	99.5	6.3	GSF115*99.5*6.3	97.79*5.33

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Bore Dia.	Groove Dia.	Groove Width	Order No.	O-Ring Dimensions
D _N H9	d ₁ h9	L ₁ +0.2		
120	104.5	6.3	GSF120*104.5*6.3	100.97*5.33
125	109.5	6.3	GSF125*109.5*6.3	107.32*5.33
125	104	8.1	GSF125*104*8.1	103*7.0
130	114.5	6.3	GSF130*114.5*6.3	113.67*5.33
130	109	8.1	GSF130*109*8.1	108*7.0
135	119.5	6.3	GSF135*119.5*6.3	118*5.33
135	114	8.1	GSF135*114*8.1	113.67*7.0
140	124.5	6.3	GSF140*124.5*6.3	123.19*5.33
140	119	8.1	GSF140*119*8.1	116.84*7.0
145	124	8.1	GSF145*124*8.1	123.19*7.0
150	129	8.1	GSF150*129*8.1	126.37*7.0
155	134	8.1	GSF155*134*8.1	132.72*7.0
160	139	8.1	GSF160*139*8.1	135.89*7.0
165	144	8.1	GSF165*144*8.1	142.24*7.0
170	149	8.1	GSF170*149*8.1	145.42*7.0
175	154	8.1	GSF175*154*8.1	151.77*7.0
180	159	8.1	GSF180*159*8.1	158.12*7.0
190	169	8.1	GSF190*169*8.1	164.47*7.0
200	179	8.1	GSF200*179*8.1	177.17*7.0
210	189	8.1	GSF210*189*8.1	183.52*7.0
220	199	8.1	GSF220*199*8.1	196.22*7.0
230	209	8.1	GSF230*209*8.1	208.9*7.0
240	219	8.1	GSF240*219*8.1	215.27*7.0
250	229	8.1	GSF250*229*8.1	227.97*7.0
260	239	8.1	GSF260*239*8.1	240.67*7.0
270	249	8.1	GSF270*249*8.1	240.67*7.0
275	254	8.1	GSF275*254*8.1	253.37*7.0
280	259	8.1	GSF280*259*8.1	253.37*7.0
290	269	8.1	GSF290*269*8.1	266.07*7.0
300	279	8.1	GSF300*279*8.1	278.77*7.0
310	289	8.1	GSF310*289*8.1	278.77*7.0
320	299	8.1	GSF320*299*8.1	291.47*7.0
330	305.5	8.1	GSF330*305.5*8.1	304.17*7.0
340	315.5	8.1	GSF340*315.5*8.1	316.87*7.0
350	325.5	8.1	GSF350*325.5*8.1	316.87*7.0
360	335.5	8.1	GSF360*335.5*8.1	329.57*7.0
370	345.5	8.1	GSF370*345.5*8.1	342.27*7.0
380	355.5	8.1	GSF380*355.5*8.1	354.97*7.0
390	365.5	8.1	GSF390*365.5*8.1	365*7.0

GSF

Bore Dia.	Groove Dia.	Groove Width	Order No.	O-Ring Dimensions
D _N H9	d ₁ h9	L ₁ +0.2		
400	375.5	8.1	GSF400*375.5*8.1	367.67*7.0
410	385.5	8.1	GSF410*385.5*8.1	387*7.0
420	395.5	8.1	GSF420*395.5*8.1	393.07*7.0
430	405.5	8.1	GSF430*405.5*8.1	405.26*7.0
440	415.5	8.1	GSF440*415.5*8.1	405.26*7.0
450	425.5	8.1	GSF450*425.5*8.1	417.96*7.0
460	435.5	8.1	GSF460*435.5*8.1	430.66*7.0
470	445.5	8.1	GSF470*445.5*8.1	443.36*7.0
480	455.5	8.1	GSF480*455.5*8.1	456.06*7.0
490	465.5	8.1	GSF490*465.5*8.1	462*7.0
500	475.5	8.1	GSF500*475.5*8.1	468.76*7.0
510	485.5	8.1	GSF510*485.5*8.1	480*7.0
520	495.5	8.1	GSF520*495.5*8.1	490*7.0
530	505.5	8.1	GSF530*505.5*8.1	498*7.0
540	515.5	8.1	GSF540*515.5*8.1	505*7.0
550	525.5	8.1	GSF550*525.5*8.1	515*7.0
560	535.5	8.1	GSF560*535.5*8.1	523*7.0
570	545.5	8.1	GSF570*545.5*8.1	533*7.0
580	555.5	8.1	GSF580*555.5*8.1	542*7.0
600	575.5	8.1	GSF600*575.5*8.1	557.66*7.0
610	585.5	8.1	GSF610*585.5*8.1	567*7.0
620	595.5	8.1	GSF620*595.5*8.1	576*7.0
630	605.5	8.1	GSF630*605.5*8.1	586*7.0
640	615.5	8.1	GSF640*615.5*8.1	608.08*7.0
650	625.5	8.1	GSF650*625.5*8.1	618*7.0
660	635.5	8.1	GSF660*635.5*8.1	633.48*7.0
670	642	9.5	GSF670*642*9.5	630*8.4
680	652	9.5	GSF680*652*9.5	650*8.4
700	672	9.5	GSF700*672*9.5	670*8.4
750	722	9.5	GSF750*722*9.5	720*8.4
780	752	9.5	GSF780*752*9.5	750*8.4
800	772	9.5	GSF800*772*9.5	770*8.4
850	822	9.5	GSF850*822*9.5	820*8.4
900	872	9.5	GSF900*872*9.5	870*8.4
950	922	9.5	GSF950*922*9.5	920*8.4
1000	962	13.8	GSF1000*962*13.8	960*12.0