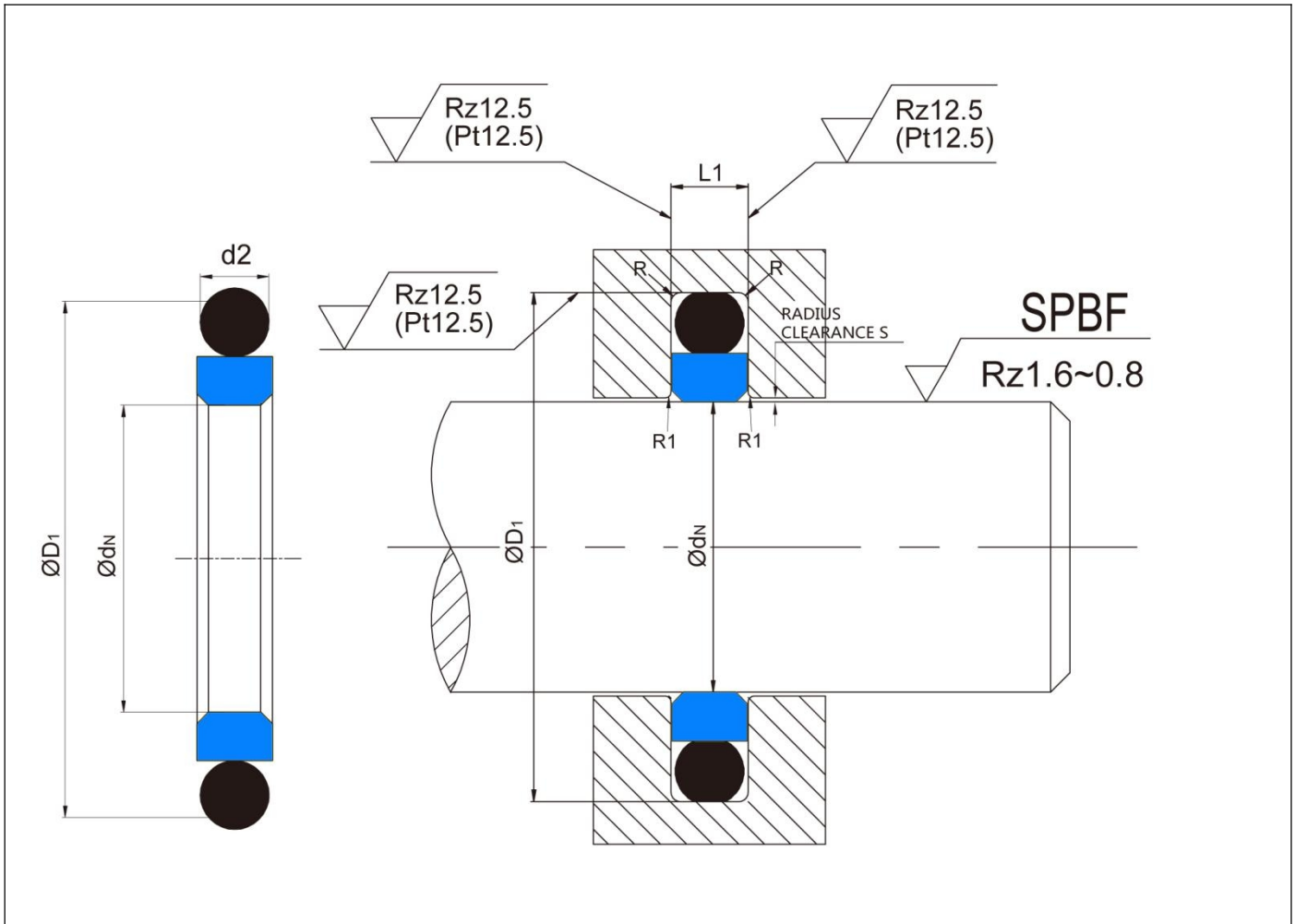


1. Installation Recommendation



2. Installation Sizes

Rod 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
3-7.9	8-18.9	-	$d_N+4.9$	2.2	0.4	0.3	0.20	0.15	1.78
8-18.9	19-37.9	-	$d_N+7.3$	3.2	0.6	0.4	0.25	0.15	2.62
19-37.9	38-199.9	8-18.9	$d_N+10.7$	4.2	1.0	0.4	0.25	0.20	3.53
38-199.9	200-255.9	19-37.9	$d_N+15.1$	6.3	1.3	0.5	0.30	0.20	5.33
200-225.9	256-649.9	38-199.9	$d_N+20.5$	8.1	1.8	0.6	0.35	0.25	7.00
256-649.9	650-999.9	200-255.9	$d_N+24.0$	8.1	1.8	0.6	0.35	0.25	7.00
650-999.9	≥ 1000.0	256-649.9	$d_N+27.3$	9.5	2.5	0.7	0.50	0.30	8.40
≥ 1000.0	-	650-999.9	$d_N+38.0$	13.8	3.0	1.0	0.70	0.60	12.00

3. Application and properties

Applicable to high and low speed reciprocating motion environment, a wide range of fluids and high temperature condition. Suitable for larger gap of piston rod. Low friction, simple groove, be able to work in the medium with oil spots.

Meet the standard of GB/T 15242.3.

4. Standard materials

Sealing ring: filled PTFE

O-Ring: NBR / FKM

5. Working Conditions

Working Conditions				
Diameter Range	Pressure Range	Temperature Range	Speed	Medium
3 - 1600mm	0 - 60MPa	-45℃ +200℃	15 m/s	hydraulic oil, flame retardant liquid, water, gas

6. Installation Dimensions

Rod Dia.	Groove Dia.	Groove Width	Order No.	O-Ring Dimensions
D _N h9	D ₁ H9	L ₁ +0.2		
4	8.9	2.2	GSI4*8.9*2.2	5.6*1.8
5	9.9	2.2	GSI5*9.9*2.2	6.7*1.8
6	10.9	2.2	GSI6*10.9*2.2	7.65*1.78
8	12.9	2.2	GSI8*12.9*2.2	9.5*1.8
8	15.3	3.2	GSI8*15.3*3.2	10.77*2.62
10	14.9	2.2	GSI10*14.9*2.2	11.8*1.8
10	17.3	3.2	GSI10*17.3*3.2	12.37*2.62
12	16.9	2.2	GSI12*16.9*2.2	14.0*1.78
12	19.3	3.2	GSI12*19.3*3.2	13.94*2.62
14	18.9	2.2	GSI14*18.9*2.2	15.6*1.78
14	21.3	3.2	GSI14*21.3*3.2	17.12*2.62
15	19.9	2.2	GSI15*19.9*2.2	17.17*1.78
15	22.3	3.2	GSI15*22.3*3.2	17.12*2.62
16	20.9	2.2	GSI16*20.9*2.2	17.17*1.78
16	23.3	3.2	GSI16*23.3*3.2	18.72*2.62
18	22.9	2.2	GSI18*22.9*2.2	20.35*1.78
18	25.3	3.2	GSI18*25.3*3.2	20.29*2.62
19	29.7	4.2	GSI19*29.7*4.2	23.39*3.53
20	27.3	3.2	GSI20*27.3*3.2	21.89*2.62
20	30.7	4.2	GSI20*30.7*4.2	25.0*3.53
22	29.3	3.2	GSI22*29.3*3.2	25.07*2.62

GSI

Rod Dia.	Groove Dia.	Groove Width	Order No.	O-Ring Dimensions
D _N h9	D ₁ H9	L ₁ +0.2		
22	32.7	4.2	GSI22*32.7*4.2	26.57*3.53
24	31.3	3.2	GSI24*31.3*3.2	26.64*2.62
25	32.3	3.2	GSI25*32.3*3.2	28.24*2.62
25	35.7	4.2	GSI25*35.7*4.2	29.74*3.53
26	36.7	4.2	GSI26*36.7*4.2	29.74*3.53
28	35.3	3.2	GSI28*35.3*3.2	29.82*2.62
28	38.7	4.2	GSI28*38.7*4.2	32.92*3.53
30	37.3	3.2	GSI30*37.3*3.2	32.99*2.62
30	40.7	4.2	GSI30*40.7*4.2	34.52*3.53
32	39.3	3.2	GSI32*39.3*3.2	34.59*2.62
32	42.7	4.2	GSI32*42.7*4.2	36.09*3.53
35	42.3	3.2	GSI35*42.3*3.2	37.77*2.62
35	45.7	4.2	GSI35*45.7*4.2	37.69*3.53
36	43.3	3.2	GSI36*43.3*3.2	39.34*2.62
36	46.7	4.2	GSI36*46.7*4.2	40.87*3.53
38	48.7	4.2	GSI38*48.7*4.2	40.87*3.53
38	53.1	6.3	GSI38*53.1*6.3	43.82*5.33
40	50.7	4.2	GSI40*50.7*4.2	44.04*3.53
40	55.1	6.3	GSI40*55.1*6.3	43.82*5.33
42	52.7	4.2	GSI42*52.7*4.2	47.22*3.53
42	57.1	6.3	GSI42*57.1*6.3	46.99*5.33
45	55.7	4.2	GSI45*55.7*4.2	50.39*3.53
45	60.1	6.3	GSI45*60.1*6.3	50.17*5.33
48	58.7	4.2	GSI48*58.7*4.2	51.5*3.55
48	63.1	6.3	GSI48*63.1*6.3	53.34*5.33
50	60.7	4.2	GSI50*60.7*4.2	53.57*3.53
50	65.1	6.3	GSI50*65.1*6.3	56.52*5.33
52	62.7	4.2	GSI52*62.7*4.2	56.74*3.53
52	67.1	6.3	GSI52*67.1*6.3	56.52*5.33
54	69.1	6.3	GSI54*69.1*6.3	59.69*5.33
55	65.7	4.2	GSI55*65.7*4.2	59.92*3.53
55	70.1	6.3	GSI55*70.1*6.3	59.69*5.33
56	66.7	4.2	GSI56*66.7*4.2	59.92*3.53
56	71.1	6.3	GSI56*71.1*6.3	62.87*5.33
58	73.1	6.3	GSI58*73.1*6.3	62.87*5.33
60	70.7	4.2	GSI60*70.7*4.2	63.09*3.53
60	75.1	6.3	GSI60*75.1*6.3	66.04*5.33
63	73.7	4.2	GSI63*73.7*4.2	66.27*3.53
63	78.1	6.3	GSI63*78.1*6.3	69.22*5.33

GSI

Rod Dia.	Groove Dia.	Groove Width	Order No.	O-Ring Dimensions
D _N h9	D ₁ H9	L ₁ +0.2		
65	80.1	6.3	GSI65*80.1*6.3	69.22*5.33
67	77.7	4.2	GSI67*77.7*4.2	72.62*3.53
70	80.7	4.2	GSI70*80.7*4.2	75.79*3.53
70	85.1	6.3	GSI70*85.1*6.3	75.57*5.33
72	82.7	4.2	GSI72*82.7*4.2	75.79*3.53
75	85.7	4.2	GSI75*85.7*4.2	78.97*3.53
75	90.1	6.3	GSI75*90.1*6.3	81.92*5.33
80	90.7	4.2	GSI80*90.7*4.2	85.32*3.53
80	95.1	6.3	GSI80*95.1*6.3	85.09*5.33
83	93.7	4.2	GSI83*93.7*4.2	88.49*3.53
85	100.1	6.3	GSI85*100.1*6.3	91.44*5.33
86	96.7	4.2	GSI86*96.7*4.2	91.67*3.53
90	100.7	4.2	GSI90*100.7*4.2	94.84*3.53
90	105.1	6.3	GSI90*105.1*6.3	94.62*5.33
92	102.7	4.2	GSI92*102.7*4.2	98.02*3.53
95	105.7	4.2	GSI95*105.7*4.2	101.19*3.53
95	110.1	6.3	GSI95*110.1*6.3	100.97*5.33
100	110.7	4.2	GSI100*110.7*4.2	104.37*3.53
100	115.1	6.3	GSI100*115.1*6.3	107.32*5.33
105	115.7	4.2	GSI105*115.7*4.2	110.72*3.53
105	120.1	6.3	GSI105*120.1*6.3	110.49*5.33
110	120.7	4.2	GSI110*120.7*4.2	113.89*3.53
110	125.1	6.3	GSI110*125.1*6.3	116.84*5.33
110	130.5	8.1	GSI110*130.5*8.1	120.02*7.00
112	127.1	6.3	GSI112*127.1*6.3	116.84*5.33
115	125.7	4.2	GSI115*125.7*4.2	120.24*3.53
115	130.1	6.3	GSI115*130.1*6.3	120.02*5.33
118	133.1	6.3	GSI118*133.1*6.3	123.19*5.33
120	130.7	4.2	GSI120*130.7*4.2	123.42*3.53
120	135.1	6.3	GSI120*135.1*6.3	126.37*5.33
125	135.7	4.2	GSI125*135.7*4.2	129.77*3.53
125	140.1	6.3	GSI125*140.1*6.3	129.54*5.33
129	139.7	4.2	GSI129*139.7*4.2	132*97*3.53
130	140.7	4.2	GSI130*140.7*4.2	136.12*3.53
130	145.1	6.3	GSI130*145.1*6.3	135.89*5.33
135	145.7	4.2	GSI135*145.7*4.2	139.29*3.53
135	150.1	6.3	GSI135*150.1*6.3	142.24*5.33
140	150.7	4.2	GSI140*150.7*4.2	145.64*3.53
140	155.1	6.3	GSI140*155.1*6.3	148.82*3.53

GSI

Rod Dia.	Groove Dia.	Groove Width	Order No.	O-Ring Dimensions
D _N h9	D ₁ H9	L ₁ +0.2		
145	155.7	4.2	GSI145*155.7*4.2	145.42*5.33
145	160.1	6.3	GSI145*160.1*6.3	151.77*5.33
150	165.1	6.3	GSI150*165.1*6.3	158.12*5.33
160	175.1	6.3	GSI160*175.1*6.3	164.47*5.33
160	180.5	8.1	GSI160*180.5*8.1	170.82*6.99
165	180.1	6.3	GSI165*180.1*6.3	170.82*5.33
170	180.7	4.2	GSI170*180.7*4.2	177.39*3.53
170	185.1	6.3	GSI170*185.1*6.3	177.17*5.33
175	190.1	6.3	GSI175*190.1*6.3	183.52*5.33
180	190.7	4.2	GSI180*190.7*4.2	183.74*3.53
180	195.1	6.3	GSI180*195.1*6.3	183.52*5.33
180	200.5	8.1	GSI180*200.5*8.1	189.87*6.99
190	200.7	4.2	GSI190*200.7*4.2	196.44*3.53
190	205.1	6.3	GSI190*205.1*6.3	196.22*5.33
200	215.1	6.3	GSI200*215.1*6.3	208.92*5.33
200	220.5	8.1	GSI200*220.5*8.1	208.92*6.99
205	220.1	6.3	GSI205*220.1*6.3	208.92*5.33
210	225.1	6.3	GSI210*225.1*6.3	215.27*5.33
220	235.1	6.3	GSI220*235.1*6.3	227.97*5.33
220	240.5	8.1	GSI220*240.5*8.1	227.97*6.99
230	245.1	6.3	GSI230*245.1*6.3	234.32*5.33
230	250.5	8.1	GSI230*250.5*8.1	240.67*6.99
240	255.1	6.3	GSI240*255.1*6.3	247.02*5.33
240	260.5	8.1	GSI240*260.5*8.1	253*37*6.99
250	270.5	8.1	GSI250*270.5*8.1	266.07*6.99
260	284	8.1	GSI260*284*8.1	266.07*6.99
270	290.5	8.1	GSI270*290.5*8.1	278.77*6.99
270	294	8.1	GSI270*294*8.1	278.77*6.99
275	299	8.1	GSI275*299*8.1	291.47*6.99
280	300.5	8.1	GSI280*300.5*8.1	291*47*6.99
280	304	8.1	GSI280*304*8.1	291.47*6.99
290	310.5	8.1	GSI290*310.5*8.1	304.17*6.99
290	314	8.1	GSI290*314*8.1	304.17*6.99
300	324	8.1	GSI300*324*8.1	316.87*6.99
310	334	8.1	GSI310*334*8.1	316.87*6.99
320	344	8.1	GSI320*344*8.1	329.57*6.99
330	354	8.1	GSI330*354*8.1	342.27*6.99
340	364	8.1	GSI340*364*8.1	354.97*6.99
350	374	8.1	GSI350*374*8.1	367.67*6.99

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Rod Dia.	Groove Dia.	Groove Width	Order No.	O-Ring Dimensions
D _N h9	D ₁ H9	L ₁ +0.2		
360	384	8.1	GSI360*384*8.1	367.67*6.99
370	394	8.1	GSI370*394*8.1	380.37*6.99
380	404	8.1	GSI380*404*8.1	393.07*6.99
390	414	8.1	GSI390*414*8.1	405.26*6.99
400	424	8.1	GSI400*424*8.1	417.96*6.99
410	434	8.1	GSI410*434*8.1	417.96.6.99
420	444	8.1	GSI420*444*8.1	430.66*6.99
430	454	8.1	GSI430*454*8.1	443.36*6.99
440	464	8.1	GSI440*464*8.1	456.06*6.99
450	474	8.1	GSI450*474*8.1	468.76*6.99
460	484	8.1	GSI460*484*8.1	481.46*6.99
470	494	8.1	GSI470*494*8.1	484.46*6.99
480	504	8.1	GSI480*504*8.1	494*16*6.99
490	514	8.1	GSI490*514*8.1	506.86*6.99
500	524	8.1	GSI500*524*8.1	506.86*6.99
550	574	8.1	GSI550*574*8.1	557.66*6.99
600	624	8.1	GSI600*624*8.1	608.08*6.99
650	677.3	9.5	GSI650*677.3*9.5	663*8.4
700	724	8.1	GSI700*724*8.1	712*6.99
740	767.3	9.5	GSI740*767.3*9.5	753*8.4
800	827.3	9.5	GSI800*827.3*9.5	813*8.4
850	877.3	9.5	GSI850*877.3*9.5	863*8.4
900	927.3	9.5	GSI900*927.3*9.5	913*8.4
950	977.3	9.5	GSI950*977.3*9.5	963*8.4