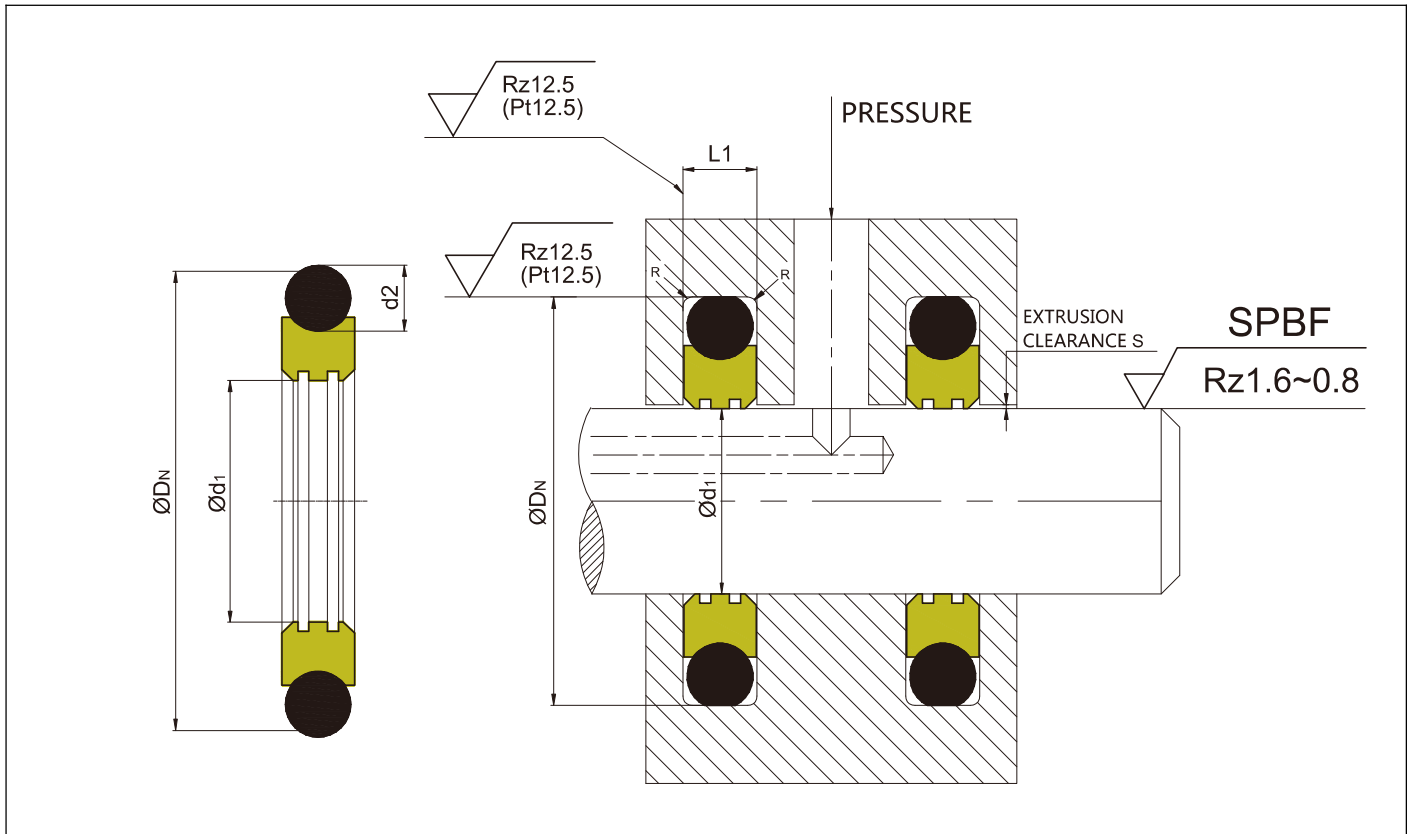




1. Installation Recommendation



2. Installation Sizes

Rod Diameter D _N H9		Groove Diameter	Groove Width	Radial Clearance S max.		Radius	O-Ring Cross-Section
Standard Application	Extended Application	D _N H9	L ₁ +0.2	32MPa	50MPa	R ₁	d ₂
6-18.9	6-130.0	d ₁ +4.9	2.20	0.15	0.10	0.40	1.78
19-37.9	10-245.0	d ₁ +7.5	3.20	0.20	0.15	0.60	2.62
38-199.9	19-455.0	d ₁ +11.0	4.20	0.25	0.20	1.00	3.53
200-255.9	38-655.0	d ₁ +15.5	6.30	0.30	0.25	1.30	5.33
256-649.9	120-655.0	d ₁ +21.0	8.10	0.30	0.25	1.80	7.00
650-999.9	650-999.9	d ₁ +28.0	9.50	0.45	0.30	2.50	8.40

3. Application and properties

Suitable for sealing with rotating or swinging rods, shafts, pins, rotary joints, etc. It is a rotary sealing ring that can withstand both sides pressure or alternating pressure role of the bidirectional effect, used in construction machinery, building machinery and automotive equipment. It can be applied on occasions where piston rod and piston seal are required, low friction, non viscous phenomenon, simple groove, good abrasion resistance and dimensional stability.



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 - 30MPa	-30°C +200°C	1 m/s	hydraulic oil, flame retardant liquid, water and others

6. Installation Dimensions

Rod Dia.	Groove Dia.	Groove Width	Order No.
d h9	D _N H9	L ₁ +0.2	
6	10.9	2.2	GRS6*10.9*2.2
8	12.9	2.2	GRS8*12.9*2.2
10	14.9	2.2	GRS10*14.9*2.2
12	16.9	2.2	GRS12*16.9*2.2
14	18.9	2.2	GRS14*18.9*2.2
15	19.9	2.2	GRS15*19.9*2.2
16	20.9	2.2	GRS16*20.9*2.2
18	22.9	2.2	GRS18*22.9*2.2
20	27.5	3.2	GRS20*27.5*3.2
22	29.5	3.2	GRS22*29.5*3.2
25	32.5	3.2	GRS25*32.5*3.2
26	33.5	3.2	GRS26*33.5*3.2
28	35.5	3.2	GRS28*35.5*3.2
30	37.5	3.2	GRS30*37.5*3.2
32	39.5	3.2	GRS32*39.5*3.2
35	42.5	3.2	GRS35*42.5*3.2
36	43.5	3.2	GRS36*43.5*3.2
40	51	4.2	GRS40*51*4.2
42	53	4.2	GRS42*53*4.2
44	55	4.2	GRS44*55*4.2
45	56	4.2	GRS45*56*4.2
48	59	4.2	GRS48*59*4.2
50	61	4.2	GRS50*61*4.2
52	63	4.2	GRS52*63*4.2
55	66	4.2	GRS55*66*4.2
56	67	4.2	GRS56*67*4.2
60	71	4.2	GRS60*71*4.2



GRS

Rod Dia.	Groove Dia.	Groove Width	Order No.
d h9	D _N H9	L ₁ +0.2	
63	74	4.2	GRS63*74*4.2
65	76	4.2	GRS65*76*4.2
70	81	4.2	GRS70*81*4.2
75	86	4.2	GRS75*86*4.2
80	91	4.2	GRS80*91*4.2
85	96	4.2	GRS85*96*4.2
90	101	4.2	GRS90*101*4.2
95	106	4.2	GRS95*106*4.2
100	111	4.2	GRS100*111*4.2
105	116	4.2	GRS105*116*4.2
110	121	4.2	GRS110*121*4.2
115	126	4.2	GRS115*126*4.2
120	131	4.2	GRS120*131*4.2
125	136	4.2	GRS125*136*4.2
130	141	4.2	GRS130*141*4.2
135	146	4.2	GRS135*146*4.2
140	151	4.2	GRS140*151*4.2
145	156	4.2	GRS145*156*4.2
150	161	4.2	GRS150*161*4.2
155	166	4.2	GRS155*166*4.2
160	171	4.2	GRS160*171*4.2
170	181	4.2	GRS170*181*4.2
180	191	4.2	GRS180*191*4.2
190	201	4.2	GRS190*201*4.2
200	215.5	6.3	GRS200*215.5*6.3
210	225.5	6.3	GRS210*225.5*6.3
220	235.5	6.3	GRS220*235.5*6.3
240	255.5	6.3	GRS240*255.5*6.3
250	265.5	6.3	GRS250*265.5*6.3
280	301	8.1	GRS280*301*8.1
300	321	8.1	GRS300*321*8.1
320	341	8.1	GRS320*341*8.1
350	371	8.1	GRS350*371*8.1
360	381	8.1	GRS360*381*8.1
400	421	8.1	GRS400*421*8.1
420	441	8.1	GRS420*441*8.1
450	471	8.1	GRS450*471*8.1
480	501	8.1	GRS480*501*8.1
500	521	8.1	GRS500*521*8.1



GRS

Rod Dia. d h9	Groove Dia. D _N H9	Groove Width L ₁ +0.2	Order No.
520	541	8.1	GRS520*541*8.1
530	551	8.1	GRS530*551*8.1
550	571	8.1	GRS550*571*8.1
600	621	8.1	GRS600*621*8.1
650	678	9.5	GRS650*678*9.5
700	728	9.5	GRS700*728*9.5