

UPI TYPE

PACKINGS FOR BOTH PISTON AND ROD SEALS IRON RUBBER (PUR)



● Please designate NOK Part number and type & size on your order.

(Example) Order for the packing as a single piece

· Type Dimensions	<u>UPI</u>	<u>6.3</u>	<u>16.3</u>	<u>8</u>
	└─ Type Sign	└─ Nominal Size of Packing described in order of inner diameter(d), outer diameter(D), and height(h)		
· Part Number	FU0024D0			

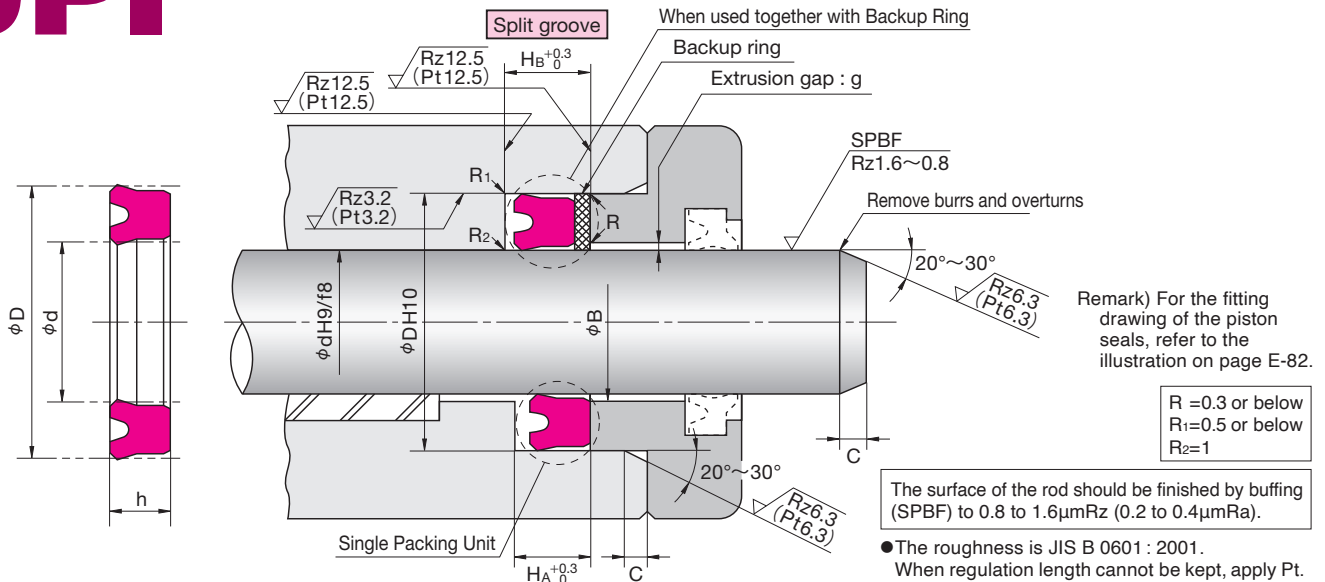
※ When placing orders for backup rings used in combination with packing, designate the NOK part number and the model size.

· Type Dimensions	<u>BRT3</u>	<u>6.3</u>	<u>16.3</u>	<u>2</u>
	└─ Type Sign	└─ Nominal Size of Backup ring described in order of inner diameter(d), outer diameter(D), and thickness(t)*		
· Part Number	GN0720V0			

*t = H_B-H_A (Housing dimensions)

● Please check the application range on pages 18 and 19 before selecting the type.

Material	NOK U801
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Nominal Size of Packing, and Housing dimensions							Packing Part Number	Combination Backup Ring Part Number	
d	D	h	H _A	H _B	φD ₁	C		BRT3 (Endless) 19YF	BRN3 (Endless) 80NP
6.3	16.3	8	9	11	15.3	2.5	FU0024D0	GN0720V0	GN9823O0
7.1	17.1	8	9	11	16.1	2.5	FU0030D0	GN0723V0	GN9868O0
8	18	8	9	11	17	2.5	FU0043D0	GN0725V0	GN9101O1
9	19	8	9	11	18	2.5	FU0054D0	GN0728V0	GN9826O0
10	20	8	9	11	19	2.5	FU0069D0	GN0733V0	GN9102O1
11.2	21.2	8	9	11	20.2	2.5	FU0081D0	GN0736V0	GN9828O0
12	25	8	9	11	24	2.5	FU0093D0	GN6005V0	GN9869O0
12.5	22.5	8	9	11	21.5	2.5	FU0102D0	GN0741V0	GN9830O0
14	24	8	9	11	23	2.5	FU0122D0	GN0745V0	GN9103O1
15	25	8	9	11	24	2.5	FU0135D0	GN0749V0	GN9738O1
16	26	8	9	11	25	2.5	FU0157D0	GN0751V0	GN9105O1
16	32	10	11	13	31	2.5	FU0161D0	GN7288V0	GN9870O0
18	28	8	9	11	27	3.5	FU0182D0	GN0757V0	GN9833O0
18	31	10	11	13	30	3.5	FU0186D0	GN6446V0	GN9107O1
20	30	8	9	11	29	3.5	FU0215D0	GN0762V0	GN9109O1
20	33	10	11	13	32	3.5	FU0221D0	GN6448V0	GN9110O1
20	35	10	11	13	34	3.5	FU0224D0	GN7289V0	GN9871O0
21.5	31.5	8	9	11	30.5	3.5	FU0239D0	GN0767V0	GN9797O0
22	32	8	9	11	31	3.5	FU0246D0	GN7290V0	GN9872O0
22	35	10	11	13	34	3.5	FU0249D0	GN6449V0	GN9111O1
22.4	30	5	5.7	7.7	29	3.5	FU0260D0	GN6450V0	GN9112O1
22.4	32.4	8	9	11	31.4	3.5	FU0263D0	GN0771V0	GN9834O0
25	35	8	9	11	34	3.5	FU0282D0	GN0781V0	GN9115O1
25	38	8	9	11	37	3.5	FU0287D0	GN6453V0	GN9116O1
25	40	10	11	13	39	3.5	FU0292D0	GN6591V0	GN9800O0
25	45	12	13	15	44	3.5	FU0301D0	GN7291V0	GN9873O0
25.5	35.5	8	9	11	34.5	3.5	FU0309D1	GN6454V0	GN9117O1
28	35.5	5	5.7	8.7	34.5	3.5	FU0320D1	GN6456V0	GN9119O1
28	40	10	11	14	39	3.5	FU0330D0	GN6457V0	GN9120O1
28	43	10	11	14	42	3.5	FU0340D0	GN0791V0	GN9836O0
30	45	10	11	14	44	3.5	FU0368D0	GN7061V0	GN9801O0
30	46	10	11	14	45	3.5	FU0369D0	GN7292V0	GN9874O0
31.5	46.5	10	11	14	45.5	3.5	FU0387D0	GN0805V0	GN9837O0
32	46	10	11	14	45	4	FU0403D0	GN6035V0	GN9875O0
35	50	10	11	14	49	4	FU0437D0	GN0816V0	GN9128O1
35.5	45	6	7	10	44	4	FU0451D0	GN6464V0	GN9129O1
35.5	50.5	10	11	14	49.5	4	FU0456D0	GN0820V0	GN9954O0
38	52	10	11	14	51	4	FU0470D0	GN6046V0	GN9876O0
40	55	10	11	14	54	4	FU0505D0	GN6759V0	GN9948O0
40	56	10	11	14	55	4	FU0508D0	GN6466V0	GN9132O1
40	60	12	13	16	59	4	FU0514D0	GN7293V0	GN9877O0
41	56	10	11	14	55	4	FU0523D0	GN0835V0	GN9949O0

DIMENSION

HOW TO DETERMINE B DIMENSION

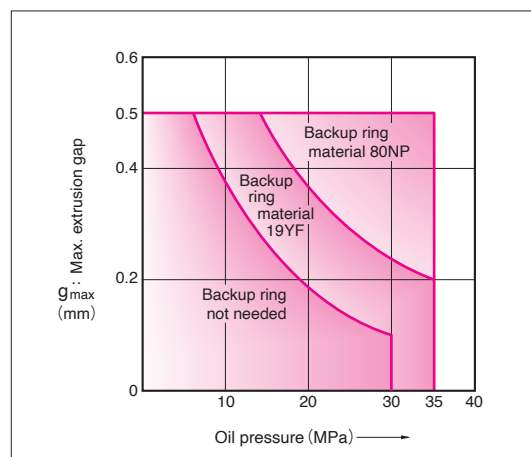
■ When using backup ring

Please determine B dimension according to the table below. If you require smaller B dimension (in case of piston seals) or larger B dimension (in case of rod seals) because of the cylinder configuration, please consult NOK.

Maximum Service Pressure	14MPa	21MPa	35MPa	35MPa	
Material of Backup ring	19YF			80NP	
B Dimension	For rod	$B \leq \phi d + 1.0$	$B \leq \phi d + 0.5$	$B \leq \phi d + 0.2$	$B \leq \phi d + 0.8$
	For piston	$B \geq \phi D - 1.0$	$B \geq \phi D - 0.5$	$B \geq \phi D - 0.2$	$B \geq \phi D - 0.8$

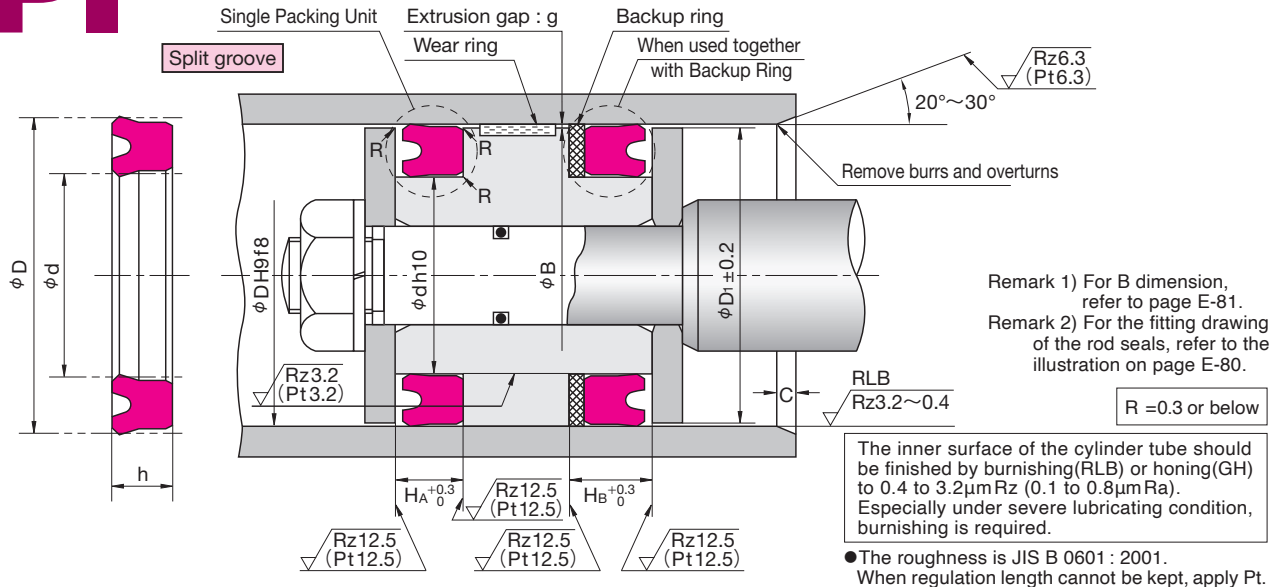
■ When not using backup ring

To determine B dimension, please refer to the graph in the right for the maximum extrusion gap (one side) considering the eccentricity of operating condition of the piston or rod.



Nominal Size of Packing, and Housing dimensions							Packing Part Number	Combination Backup Ring Part Number	
d	D	h	H _A	H _B	φD ₁	C		BRT3 (Endless)	BRN3 (Endless)
								19YF	80NP
45	56	7	8	11	55	4	FU0572D1	GN6468V0	GN9134O1
45	60	10	11	14	59	4	FU0577D0	GN0845V0	GN9950O0
45	61	10	11	14	60	4	FU0579D0	GN6469V0	GN9135O1
46	60	10	11	14	59	4	FU0588D0	GN7294V0	GN9878O0
48	63	10	11	14	62	4	FU0601D0	GN0853V0	GN9951O0
50	65	10	11	14	64	4	FU0631D0	GN6439V0	GN9952O0
50	66	12	13	16	65	4	FU0635D0	GN6329V0	GN9139O1
50	70	12	13	16	69	4	FU0639D0	GN6592V0	GN9529O0
51	71	12	13	16	70	4	FU0669D0	GN0862V0	GN9805O0
53	73	12	13	16	72	4	FU0683D0	GN0869V0	GN9879O0
55	71	12	13	16	70	4	FU0704D0	GN6473V0	GN9142O1
55	75	12	13	16	74	4	FU0708D0	GN7249V0	GN9807O0
55	80	15	16	19	79	4	FU0712D0	GN6072V0	GN9880O0
56	72	12	13	16	71	4	FU0727D0	GN7009V0	GN9838O0
56	76	12	13	16	75	4	FU0728D0	GN0877V0	GN9839O0
58	78	12	13	16	77	4	FU0736D0	GN7296V0	GN9881O0
60	71	7	8	11	70	4	FU0750D0	GN6475V0	GN9145O1
60	80	12	13	16	79	4	FU0761D0	GN0886V1	GN9953O0
62	82	12	13	16	81	4	FU0777D0	GN6371V0	GN9882O0
63	83	12	13	16	82	4	FU0793D0	GN0893V1	GN9842O0
65	85	12	13	16	84	5	FU0819D0	GN0899V0	GN9810O0
67	87	12	13	16	86	5	FU0831D0	GN0904V0	GN9844O0
70	90	12	13	16	89	5	FU0862D0	GN0910V0	GN9151O1
71	80	6	7	10	79	5	FU0879D1	GN6481V0	GN9152O1
71	91	12	13	16	90	5	FU0884D0	GN0914V0	GN9846O0
75	95	12	13	16	94	5	FU0910D0	GN0920V0	GN9154O1
80	100	12	13	16	98	5	FU0948D0	GN0927V0	GN9156O1
80	100	15	16	19	98	5	FU0949D0	GN0927V0	GN9156O1
85	100	9	10	13	98	5	FU0984D1	GN6484V0	GN9091O1
85	105	12	13	16	103	5	FU0989D0	GN0932V0	GN9157O1
90	110	12	13	16	108	5	FU1030D0	GN0939V0	GN9159O1
92	112	12	13	16	110	5	FU1042D0	GN0940V0	GN9811O0
95	115	12	13	16	113	5	FU1056D0	GN0945V0	GN9161O1
95	120	15	16	19	118	5	FU1061D0	GN6716V0	GN9883O0
98	112	9	10	13	110	5	FU1068D0	GN6487V0	GN9162O1
100	120	12	13	16	118	5	FU1089D0	GN0952V0	GN9164O1
100	125	15	17	20	123	5	FU1096D0	GN7297V0	GN9884O0
105	125	15	17	20	123	5	FU1129D0	GN0959V0	GN9165O1
106	120	8.5	9.5	12.5	118	5	FU1135D1	GN6489V0	GN9166O1
106	126	15	17	20	124	5	FU1138D0	GN0961V0	GN9847O0
110	130	15	17	20	128	5	FU1165D0	GN6790V0	GN9694O0
112	132	15	17	20	130	5	FU1182D0	GN0970V0	GN9168O1

UPI TYPE PACKINGS FOR BOTH PISTON AND ROD SEALS



Nominal Size of Packing, and Housing dimensions							Packing Part Number	Combination Backup Ring Part Number	
d	D	h	H _A	H _B	φD ₁	C		BRT3 (Endless) 19YF	BRN3 (Endless) 80NP
115	135	15	17	20	133	5	FU1198D0	GN0974V0	GN9778O1
118	132	9	10	13	130	5	FU1932D0	GN7298V0	GN9885O0
118	138	15	17	20	136	5	FU1207D0	GN0978V0	GN9849O0
120	140	15	17	20	138	5	FU1224D0	GN0982V0	GN9169O1
125	145	15	17	20	143	5	FU1257D0	GN0986V0	GN9850O0
130	150	15	17	20	148	6.5	FU1284D0	GN6925V0	GN9335O1
132	152	15	17	20	150	6.5	FU1292D0	GN0994V0	GN9886O0
135	155	15	17	20	153	6.5	FU1305D0	GN0998V0	GN9769O0
136	150	9	10	13	148	6.5	FU1933D0	GN6493V0	GN9173O1
140	160	15	17	20	158	6.5	FU1327D0	GN1002V0	GN9668O0
140	165	15	17	20	163	6.5	FU1330D0	GN6494V0	GN9174O1
145	165	15	17	20	163	6.5	FU1344D0	GN1007V0	GN9887O0
150	170	15	17	20	168	6.5	FU1363D0	GN1011V0	GN9672O1
150	175	15	17	20	173	6.5	FU1365D0	GN7014V0	GN9645O1
155	180	15	17	21	178	6.5	FU1391D0	GN1016V0	GN9179O1
160	185	15	17	21	183	6.5	FU1413D0	GN1020V0	GN9181O1
165	190	15	17	21	188	6.5	FU1431D0	GN1023V0	GN9815O0
170	195	15	17	21	193	6.5	FU1448D0	GN1027V0	GN9852O0
175	200	15	17	21	198	6.5	FU1461D0	GN1031V0	GN9186O1
180	205	15	17	21	203	6.5	FU1490D0	GN1035V0	GN9188O1
185	210	15	17	21	208	6.5	FU1504D0	GN1039V0	GN9817O0
190	215	15	17	21	213	6.5	FU1519D0	GN1042V0	GN9818O0
199	224	15	17	21	222	6.5	FU1532D0	GN1047V0	GN9820O0
200	225	15	17	21	223	6.5	FU1547D0	GN1050V0	GN9192O1
200	225	18	20	24	223	6.5	FU1549D0	GN1050V0	GN9192O1
205	235	18	20	24	233	6.5	FU1565D0	GN7302V0	GN9888O0
210	235	18	20	24	233	6.5	FU1579D0	GN1057V0	GN9854O0
212	237	18	20	24	235	6.5	FU1584D0	GN1058V0	GN9665O1
220	245	18	20	24	243	6.5	FU1599D0	GN1063V0	GN9670O0
224	249	18	20	24	247	6.5	FU1612D0	GN7282V0	GN9856O0
225	250	18	20	24	248	6.5	FU1625D0	GN1065V0	GN9045O1
230	254	18	20	24	252	6.5	FU1639D0	GN7304V0	GN9890O0
230	255	18	20	24	253	6.5	FU1641D0	GN1069V0	GN9857O0
236	261	18	20	24	259	6.5	FU1648D0	GN6191V0	GN9891O0
240	265	18	20	24	263	6.5	FU1662D0	GN1073V0	GN9858O0
250	275	18	20	24	273	6.5	FU1682D0	GN1078V0	GN9200O1
260	290	18	20	24	288	8	FU1706D0	GN1083V0	GN9431O1
265	295	18	20	24	293	8	FU1713D0	GN1085V0	GN9892O0
270	300	18	20	24	298	8	FU1722D0	GN1089V0	GN9206O1
280	310	18	20	24	308	8	FU1735D0	GN1093V0	GN9859O0
290	320	18	20	24	318	8	FU1750D0	GN1098V0	GN9860O0
300	330	18	20	24	328	8	FU1764D0	GN1103V0	GN9235O1

DIMENSION

UPI TYPE PACKINGS FOR BOTH PISTON AND ROD SEALS [Large size dimension table]

■ When using packings on this large size, please consult NOK.

Nominal Size of Packing, and Housing dimensions							Packing Part Number	Combination Backup Ring Part Number	
d	D	h	H _A	H _B	φD ₁	C		BRT3 (Endless) 19YF	BRN3 (Endless) 80NP
310	340	22	24	28	338	10	FU1773D0		
315	345	22	24	28	343	10	FU1775D0		
320	350	15	17	21	348	10	FU1778D0		
320	350	18	20	24	348	10	FU1779D0		
320	350	22	24	28	348	10	FU1780D0		
320	360	25	27	31	358	10	FU1781D0		
323	355	24	26	30	353	10	FU1784D0		
330	360	20	22	26	358	10	FU1788D0		
330	360	22	24	28	358	10	FU1789D0		
330	370	28	30	34	368	10	FU1791D0		
340	370	22	24	28	368	10	FU1795D0		
350	380	22	24	28	378	10	FU1799D0		
350	390	28	30	34	388	10	FU2016D0		
355	385	22	24	28	383	10	FU1801D0		
370	400	22	24	28	398	10	FU1809D0		
375	405	22	24	28	403	10	FU1812D0		
380	410	22	24	28	408	10	FU1816D0		
385	415	22	24	28	413	10	FU1993D0		
390	420	22	24	28	418	10	FU1818D0		
400	425	22	24	28	423	10	FU1822D0		
400	430	22	24	28	428	10	FU1823D0		
405	440	25	27	32	438	15	FU1827D0		
410	445	25	27	32	443	15	FU1829D0		
410	460	35	37	42	458	15	FU1830D0		
415	450	25	27	32	448	15	FU1831D0		
420	455	25	27	32	453	15	FU1833D0		
425	460	25	27	32	458	15	FU2223D0		
430	460	22	24	29	458	15	FU1977D0		
430	465	25	27	32	463	15	FU2013D0		
431	457.2	18	20	25	455	15	FU1839D1		
435	470	25	27	32	468	15	FU1841D0		
440	470	19	21	26	468	15	FU1842D0		
440	475	28	30	35	473	15	FU1976D0		
445	480	25	27	32	478	15	FU2428D0		
450	485	25	27	32	483	15	FU1845D0		

Remark) When placing orders for backup ring on this large size (the inner diameter(d) exceeding classification 300mm), please consult NOK.

UPI TYPE PACKINGS FOR BOTH PISTON AND ROD SEALS

[Large size dimension table]

■ When using packings on this large size, please consult NOK.

Nominal Size of Packing, and Housing dimensions							Packing Part Number	Combination Backup Ring Part Number	
d	D	h	H _A	H _B	φD ₁	C		BRT3(Endless) 19YF	BRN3(Endless) 80NP
456	490	30	32	37	488	15	FU1847D1		
460	495	25	27	32	493	15	FU1849D0		
465	500	26.5	28.5	33.5	498	15	FU2648D0		
470	505	25	27	32	503	15	FU1851D0		
475	510	25	27	32	508	15	FU1854D0		
480	515	25	27	32	513	15	FU2025D0		
490	530	25	27	32	528	15	FU1855D0		
500	535	25	27	32	533	20	FU1856D0		
500	540	25	27	32	538	20	FU1857D0		
507	547	28	30	35	545	20	FU1858D0		
525	565	28	30	35	563	20	FU2743D0		
530	570	25	27	32	568	20	FU2718D0		
540	575	23	25	30	573	20	FU2376D0		
560	600	28	30	35	598	20	FU1865D0		
595	640	28	30	35	638	20	FU1986D0		
600	650	32	34	39	648	20	FU2017D0		
650	690	25	27	32	688	20	FU2003D0		
660	700	32	34	39	698	20	FU1870D0		
680	720	32	34	39	718	20	FU1871D0		
695	745	32	34	39	743	20	FU2398D0		
700	750	35	37	42	748	20	FU1874D0		
755	800	32	34	39	798	20	FU1876D0		
800	830	20	22	27	828	20	FU1978D0		
800	850	35	37	42	848	20	FU1881D0		
850	900	35	37	42	898	20	FU2219D0		
870	900	20	22	27	898	20	FU1979D0		
920	970	35	37	42	968	20	FU1888D1		
1050	1100	30	32	37	1098	20	FU2391D0		
1096	1146	30	32	37	1144	20	FU2558D0		
1150	1200	30	32	37	1198	20	FU2229D0		
1380	1430	30	32	37	1428	20	FU2392D0		

Remark) When placing orders for backup ring on this large size (the inner diameter(d) exceeding classification 300mm), please consult NOK.

EUC DIMENSION

USI TYPE

PACKINGS FOR BOTH
PISTON AND ROD SEALS
IRON RUBBER (PUR)



● Please designate NOK Part number and type & size on your order.

(Example) Order for the packing as a single piece

· Type Dimensions	<table border="0" style="margin-left: auto; margin-right: auto;"> <tr> <td style="border-bottom: 1px solid black; padding: 0 5px;">USI</td> <td style="padding: 0 10px;"></td> <td style="border-bottom: 1px solid black; padding: 0 5px;">10</td> <td style="padding: 0 10px;"></td> <td style="border-bottom: 1px solid black; padding: 0 5px;">18</td> <td style="padding: 0 10px;"></td> <td style="border-bottom: 1px solid black; padding: 0 5px;">5</td> </tr> <tr> <td style="border-left: 1px solid black; border-right: 1px solid black; padding: 0 5px;">Type Sign</td> <td></td> <td colspan="4" style="border-left: 1px solid black; border-right: 1px solid black; padding: 0 5px;">Nominal Size of Packing described in order of inner diameter(d), outer diameter(D), and height(h)</td> <td></td> </tr> </table>	USI		10		18		5	Type Sign		Nominal Size of Packing described in order of inner diameter(d), outer diameter(D), and height(h)				
USI		10		18		5									
Type Sign		Nominal Size of Packing described in order of inner diameter(d), outer diameter(D), and height(h)													
· Part Number	FU0064S0														

※ When placing orders for backup rings used in combination with packing, designate the NOK part number and the model size.

· Type Dimensions	<table border="0" style="margin-left: auto; margin-right: auto;"> <tr> <td style="border-bottom: 1px solid black; padding: 0 5px;">BRT2</td> <td style="padding: 0 10px;"></td> <td style="border-bottom: 1px solid black; padding: 0 5px;">10</td> <td style="padding: 0 10px;"></td> <td style="border-bottom: 1px solid black; padding: 0 5px;">18</td> <td style="padding: 0 10px;"></td> <td style="border-bottom: 1px solid black; padding: 0 5px;">2</td> </tr> <tr> <td style="border-left: 1px solid black; border-right: 1px solid black; padding: 0 5px;">Type Sign</td> <td></td> <td colspan="4" style="border-left: 1px solid black; border-right: 1px solid black; padding: 0 5px;">Nominal Size of Backup ring described in order of inner diameter(d), outer diameter(D), and thickness(t)*</td> <td></td> </tr> </table>	BRT2		10		18		2	Type Sign		Nominal Size of Backup ring described in order of inner diameter(d), outer diameter(D), and thickness(t)*				
BRT2		10		18		2									
Type Sign		Nominal Size of Backup ring described in order of inner diameter(d), outer diameter(D), and thickness(t)*													
· Part Number	GN5418V0														

*t = H_B-H_A (Housing dimensions)

● Please check the application range on pages 14 and 15 before selecting the type.

Material	NOK U593
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HOW TO DETERMINE B DIMENSION

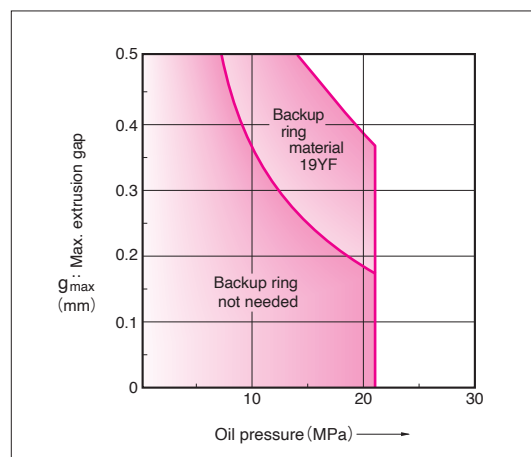
■ When using backup ring

Please determine B dimension according to the table below. If you require smaller B dimension (in case of piston seals) or larger B dimension (in case of rod seals) because of the cylinder configuration, please consult NOK.

Maximum Service Pressure	14MPa	21MPa
Material of Backup ring	19YF	
B Dimension	For rod	$B \leq \phi d + 1.0$
	For piston	$B \leq \phi D - 1.0$
		$B \leq \phi d + 0.5$
		$B \leq \phi D - 0.5$

■ When not using backup ring

To determine B dimension, please refer to the graph in the right for the maximum extrusion gap (one side) considering the eccentricity of operating condition of the piston or rod.



Nominal Size of Packing, and Housing dimensions							Packing Part Number	Combination Backup Ring Part Number
d	D	h	H _A	H _B	ϕD_1	C		BRT2 (Biascut) 19YF
61	71	6	7	10	70	2.5	FU2474S0	GN4629V0
63	73	6	7	10	72	2.5	FU0786S0	GN4814V0
65	75	6	7	10	74	2.5	FU0809S0	GN4816V0
67	77	6	7	10	76	2.5	FU0828S0	GN4697V0
70	80	6	7	10	79	2.5	FU0849S0	GN4651V0
71	80	6	7	10	79	2.5	FU0879S0	GN4818V0
75	85	6	7	10	84	2.5	FU0901S0	GN4692V0
80	90	6	7	10	89	2.5	FU0939S0	GN4820V0
80	95	9	10	13	94	4	FU0942S0	GN5023V0
85	95	6	7	10	94	4	FU2475S0	GN4757V0
85	100	9	10	13	99	4	FU0984S0	GN4687V0
86	100	8.5	9.5	12.5	99	4	FU2476S0	GN4982V1
89	104	9	10	13	103	4	FU2372S0	GN5734V0
90	100	6	7	10	99	4	FU1021S0	GN5735V0
90	105	9	10	13	104	4	FU1024S0	GN4698V0
95	110	9	10	13	109	4	FU1051S0	GN4822V0
96	111	9	10	13	110	4	FU2477S0	GN5736V0
98	112	8.5	9.5	12.5	111	4	FU1067S0	GN4824V0
100	115	9	10	13	113	4	FU1082S0	GN4512V0
105	120	9	10	13	118	4	FU1125S0	GN5198V0
106	120	8.5	9.5	12.5	118	4	FU1135S0	GN4826V0
110	125	9	10	13	123	4	FU1157S0	GN4480V0
112	125	9	10	13	123	4	FU1179S0	GN4827V0
115	130	9	10	13	128	4	FU1195S0	GN4593V0
118	132	8.5	9.5	12.5	130	4	FU1204S0	GN5414V0
125	140	9	10	13	138	4	FU1252S0	GN4481V0
132	145	8.5	9.5	12.5	143	4	FU1291S0	GN5737V0
136	150	8.5	9.5	12.5	148	4	FU1306S0	GN4830V0
145	160	9	10	13	158	4	FU1343S0	GN4551V0

UPH TYPE

PACKINGS FOR BOTH
PISTON AND ROD SEALS
NITRILE RUBBER (NBR)
FLUORORUBBER (FKM)



● Please designate NOK Part number and type & size on your order.

(Example) Order for the packing as a single piece

· Type Dimensions	<u>UPH</u>	<u>6.3</u>	<u>16.3</u>	<u>7.5</u>
	└─ Type Sign	└─ Nominal Size of Packing described in order of inner diameter(d), outer diameter(D), and height(h)		
· Part Number	CU3308D0			

※ When placing orders for backup rings used in combination with packing, designate the NOK part number and the model size.

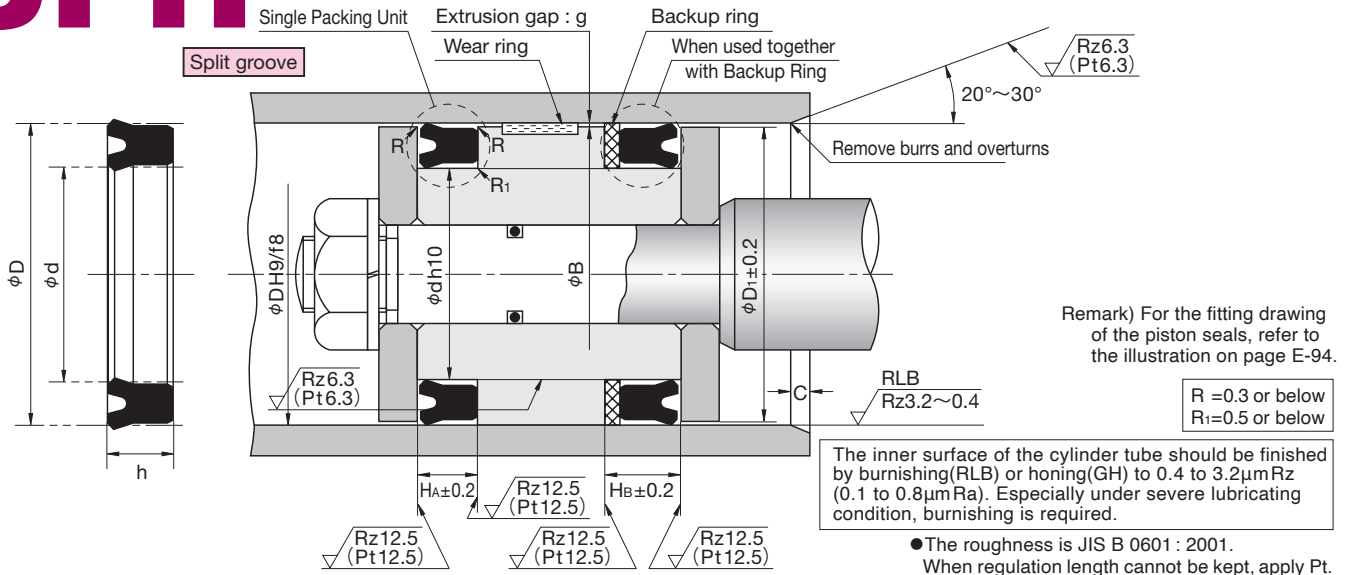
· Type Dimensions	<u>BRT3</u>	<u>6.3</u>	<u>16.3</u>	<u>2</u>
	└─ Type Sign	└─ Nominal Size of Backup ring described in order of inner diameter(d), outer diameter(D), and thickness(t)*		
· Part Number	GN0720V0			

*t = H_B-H_A (Housing dimensions)

● Please check the application range on pages 18 and 19 before selecting the type.

Material	Standard : NOK A505 Heat resistant type : NOK F357
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UPH TYPE PACKINGS FOR BOTH PISTON AND ROD SEALS



Nominal Size of Packing, and Housing dimensions							Standard (A505)		Heat resistant (F357)		Combination Backup Ring Part Number BRT3 (Endless)
d	D	h	H _A	H _B	φD ₁	C	Packing Part Number	Nominal Number	Packing Part Number	Nominal Number	19YF
6.3	16.3	7.5	8.5	10.5	15.3	2.5	CU3308D0	UPH-6.3			GN0720V0
6.3	16.3	8	9	11	15.3	2.5	CU0024D0	UPH-6.3A			GN0720V0
7.1	17.1	7.5	8.5	10.5	16.1	2.5	CU3309D0	UPH-7.1			GN0723V0
7.1	17.1	8	9	11	16.1	2.5	CU0030D0	UPH-7.1A			GN0723V0
8	18	7.5	8.5	10.5	17	2.5	CU0042D0	UPH-8			GN0725V0
8	18	8	9	11	17	2.5	CU0043D1	UPH-8A	CU0043D2	UPH-8AF	GN0725V0
9	19	7.5	8.5	10.5	18	2.5	CU3310D0	UPH-9			GN0728V0
9	19	8	9	11	18	2.5	CU0054D0	UPH-9A			GN0728V0
10	20	7.5	8.5	10.5	19	2.5	CU0068D0	UPH-10			GN0733V0
10	20	8	9	11	19	2.5	CU0069D1	UPH-10A			GN0733V0
11.2	21.2	7.5	8.5	10.5	20.2	2.5	CU3311D0	UPH-11.2			GN0736V0
11.2	21.2	8	9	11	20.2	2.5	CU0081D0	UPH-11.2A			GN0736V0
12	25	8	9	11	24	2.5	CU0093D0	UPH-12	CU0093D3	UPH-12F	GN6005V0
12.5	22.5	7.5	8.5	10.5	21.5	2.5	CU3312D0	UPH-12.5			GN0741V0
12.5	22.5	8	9	11	21.5	2.5	CU0102D0	UPH-12.5A			GN0741V0
14	24	7.5	8.5	10.5	23	2.5	CU0121D0	UPH-14			GN0745V0
14	24	8	9	11	23	2.5	CU0122D0	UPH-14A	CU0122D3	UPH-14AF	GN0745V0
15	25	8	9	11	24	2.5	CU0135D0	UPH-15A			GN0749V0
15	28	10	11	13	27	2.5	CU0137D0	UPH-15			GN6445V0
16	26	7.5	8.5	10.5	25	2.5	CU0156D0	UPH-16	CU0156D2	UPH-16F	GN0751V0
16	26	8	9	11	25	2.5	CU0157D1	UPH-16A			GN0751V0
16	32	10	11	13	31	2.5	CU0161D0	UPH-16B			GN7288V0
18	28	8	9	11	27	2.5	CU0182D0	UPH-18A	CU0182D4	UPH-18AF	GN0757V0
18	31	10	11	13	30	3.5	CU0186D0	UPH-18			GN6446V0
18	33	10	11	13	32	3.5	CU2196D0	UPH-18B			GN7354V0
18.5	31.5	10	11	13	30.5	3.5	CU3313D0	UPH-18.5	CU3313D1	UPH-18.5F	GN7240V0
20	30	8	9	11	29	3.5	CU0215D1	UPH-20A	CU0215D2	UPH-20AF	GN0762V0
20	33	10	11	13	32	3.5	CU0221D0	UPH-20			GN6448V0
20	35	10	11	13	34	3.5	CU0224D0	UPH-20B			GN7289V0
21.5	31.5	8	9	11	30.5	3.5	CU0239D0	UPH-21.5			GN0767V0
22	35	10	11	13	34	3.5	CU0249D0	UPH-22			GN6449V0
22.4	32.4	8	9	11	31.4	3.5	CU0263D0	UPH-22.4A	CU0263D3	UPH-22.4AF	GN0771V0
22.4	35.4	10	11	13	34.4	3.5	CU0265D1	UPH-22.4			GN6017V0
25	35	8	9	11	34	3.5	CU0282D2	UPH-25A	CU0282D3	UPH-25AF	GN0781V0
25	38	10	11	13	37	3.5	CU0288D0	UPH-25			GN6453V0
25	40	10	11	13	39	3.5	CU0292D0	UPH-25B	CU0292D4	UPH-25BF	GN6591V0
25	45	12	13	15	44	3.5	CU0301D0	UPH-25C			GN7291V0
25.5	35.5	8	9	11	34.5	3.5	CU0309D0	UPH-25.5			GN6454V0
27	40	10	11	14	39	3.5	CU2347D0	UPH-27			GN6455V0
28	40	10	11	14	39	3.5	CU0330D2	UPH-28A	CU0330D6	UPH-28AF	GN6457V0
28	41	10	11	14	40	3.5	CU0335D0	UPH-28			GN6458V0
28	43	10	11	14	42	3.5	CU0340D0	UPH-28B			GN0791V0

Remark) The Part number and the one stamped on the product might be different in case of heat resistant type.

HOW TO DETERMINE B DIMENSION

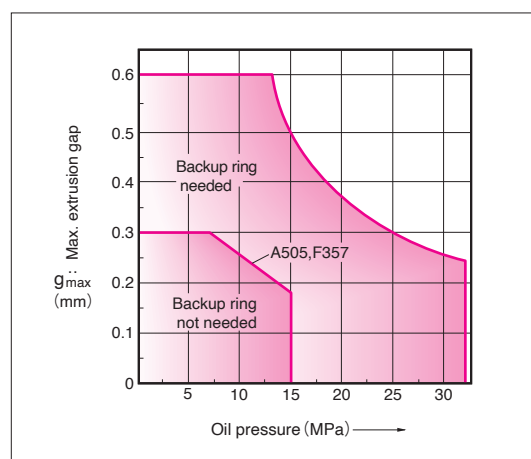
■ When using backup ring

Please determine B dimension according to the table below. If you require smaller B dimension (in case of piston seals) or larger B dimension (in case of rod seals) because of the cylinder configuration, please consult NOK.

Maximum Service Pressure	15MPa	32MPa
Material of Backup ring	19YF	
B Dimension	For rod	$B \leq \phi d + 1.0$
	For piston	$B \leq \phi D - 1.0$

■ When not using backup ring

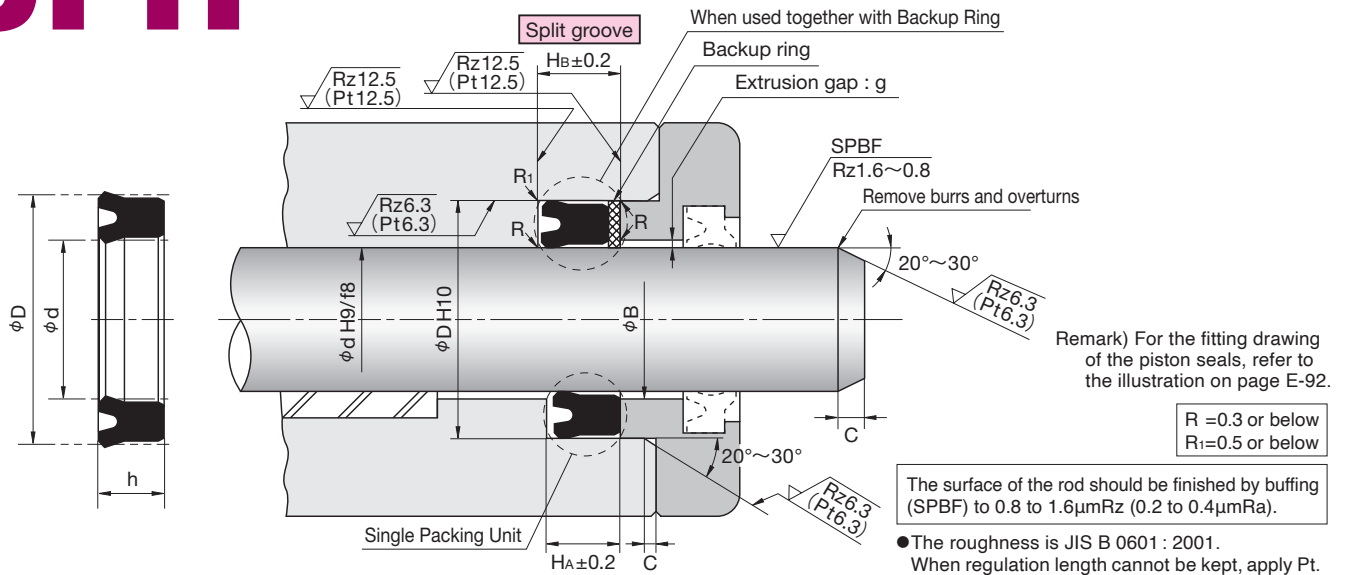
To determine B dimension, please refer to the graph in the right for the maximum extrusion gap (one side) considering the eccentricity of operating condition of the piston or rod.



Nominal Size of Packing, and Housing dimensions							Standard (A505)		Heat resistant (F357)		Combination Backup Ring Part Number BRT3 (Endless)
d	D	h	H _A	H _B	φD ₁	C	Packing Part Number	Nominal Number	Packing Part Number	Nominal Number	19YF
30	43	10	11	14	42	3.5	CU0364D0	UPH-30	CU0364D2	UPH-30F	GN6459V0
30	45	10	11	14	44	3.5	CU0368D2	UPH-30A	CU0368D8	UPH-30AF	GN7061V0
31.5	44.5	10	11	14	43.5	3.5	CU0385D0	UPH-31.5			GN6461V0
31.5	46.5	10	11	14	45.5	3.5	CU0387D1	UPH-31.5A			GN0805V0
32	45	10	11	14	44	3.5	CU2451D0	UPH-32			GN7242V0
32	46	10	11	14	45	3.5	CU0403D0	UPH-32A			GN6035V0
32	48	10	11	14	47	3.5	CU0404D0	UPH-32B			GN7356V0
34	50	12	13	16	49	3.5	CU0408D0	UPH-34			GN6462V0
35	50	10	11	14	49	4	CU0437D4	UPH-35B	CU0437D5	UPH-35BF	GN0816V0
35	50	12	13	16	49	4	CU0438D0	UPH-35			GN0816V0
35	51	12	13	16	50	4	CU0441D0	UPH-35A			GN7006V0
35.5	50.5	10	11	14	49.5	4	CU0456D2	UPH-35.5A	CU0456D6	UPH-35.5AF	GN0820V0
35.5	51.5	12	13	16	50.5	4	CU0458D0	UPH-35.5	CU0458D2	UPH-35.5F	GN6330V0
38	52	10	11	14	51	4	CU0470D1	UPH-38			GN6046V0
40	55	10	11	14	54	4	CU0505D3	UPH-40A	CU0505D2	UPH-40AF	GN6759V0
40	56	10	11	14	55	4	CU0508D0	UPH-40B			GN6466V0
40	56	12	13	16	55	4	CU0509D0	UPH-40			GN6466V0
40	60	12	13	16	59	4	CU0514D0	UPH-40C			GN7293V0
41	56	10	11	14	55	4	CU0523D0	UPH-41			GN0835V0
45	60	10	11	14	59	4	CU0577D5	UPH-45A	CU0577D9	UPH-45AF	GN0845V0
45	60	12	13	16	59	4	CU0578D0	UPH-45B			GN0845V0
45	61	12	13	16	60	4	CU0580D0	UPH-45	CU0580D3	UPH-45F	GN6469V0
47	63	12	13	16	62	4	CU0591D0	UPH-47			GN6471V0
48	63	10	11	14	62	4	CU0601D1	UPH-48	CU0601D4	UPH-48F	GN0853V0
50	65	10	11	14	64	4	CU0631D2	UPH-50A	CU0631D7	UPH-50AF	GN6439V0
50	66	12	13	16	65	4	CU0635D0	UPH-50	CU0635D3	UPH-50F	GN6329V0
50	70	12	13	16	69	4	CU0639D3	UPH-50B	CU0639D4	UPH-50BF	GN6592V0
51	71	12	13	16	70	4	CU0669D0	UPH-51			GN0862V0
53	69	12	13	16	68	4	CU3317D0	UPH-53			GN7008V0
53	73	12	13	16	72	4	CU0683D0	UPH-53A			GN0869V0
55	71	12	13	16	70	4	CU0704D1	UPH-55			GN6473V0
55	75	12	13	16	74	4	CU0708D2	UPH-55A	CU0708D6	UPH-55AF	GN7249V0
55	80	15	16	19	79	4	CU0712D0	UPH-55B			GN6072V0
56	72	12	13	16	71	4	CU0727D0	UPH-56	CU0727D2	UPH-56F	GN7009V0
56	76	12	13	16	75	4	CU0728D1	UPH-56A	CU0728D4	UPH-56AF	GN0877V0
60	76	12	13	16	75	4	CU0757D1	UPH-60			GN6476V0
60	80	12	13	16	79	4	CU0761D1	UPH-60A	CU0761D6	UPH-60AF	GN0886V1
63	79	12	13	16	78	4	CU0791D0	UPH-63			GN7010V0
63	83	12	13	16	82	4	CU0793D1	UPH-63A	CU0793D3	UPH-63AF	GN0893V1
64	80	12	13	16	79	4	CU2123D1	UPH-64	CU2123D2	UPH-64F	GN6478V0
65	81	12	13	16	80	5	CU3318D0	UPH-65			GN7011V0
65	85	12	13	16	84	5	CU0819D1	UPH-65A	CU0819D2	UPH-65AF	GN0899V0

Remark) The Part number and the one stamped on the product might be different in case of heat resistant type.

UPH TYPE PACKINGS FOR BOTH PISTON AND ROD SEALS



Nominal Size of Packing, and Housing dimensions							Standard (A505)		Heat resistant (F357)		Combination Backup Ring Part Number BRT3 (Endless)
d	D	h	HA	HB	φD1	C	Packing Part Number	Nominal Number	Packing Part Number	Nominal Number	19YF
67	87	12	13	16	86	5	CU0831D0	UPH-67A	CU0831D3	UPH-67AF	GN0904V0
67	87	15	16	19	86	5	CU3319D0	UPH-67			GN0904V0
70	90	12	13	16	89	5	CU0862D1	UPH-70A	CU0862D4	UPH-70AF	GN0910V0
70	90	15	16	19	89	5	CU0864D0	UPH-70	CU0864D2	UPH-70F	GN0910V0
71	91	12	13	16	90	5	CU0884D1	UPH-71A	CU0884D3	UPH-71AF	GN0914V0
71	91	15	16	19	90	5	CU0885D0	UPH-71			GN0914V0
75	95	12	13	16	94	5	CU0910D1	UPH-75A			GN0920V0
75	95	15	16	19	94	5	CU0911D1	UPH-75	CU0911D2	UPH-75F	GN0920V0
80	100	12	13	16	99	5	CU0948D1	UPH-80A	CU0948D9	UPH-80AF	GN0927V0
80	100	15	16	19	99	5	CU0949D2	UPH-80	CU0949D3	UPH-80F	GN0927V0
85	105	12	13	16	104	5	CU0989D1	UPH-85A	CU0989D3	UPH-85AF	GN0932V0
85	105	15	16	19	104	5	CU0990D0	UPH-85			GN0932V0
90	110	12	13	16	109	5	CU1030D3	UPH-90A	CU1030D7	UPH-90AF	GN0939V0
90	110	15	16	19	109	5	CU1031D0	UPH-90	CU1031D3	UPH-90F	GN0939V0
92	112	12	13	16	111	5	CU1042D1	UPH-92A			GN0940V0
92	112	15	16	19	111	5	CU2132D1	UPH-92	CU2132D2	UPH-92F	GN0940V0
95	115	12	13	16	114	5	CU1056D0	UPH-95A	CU1056D4	UPH-95AF	GN0945V0
95	115	15	16	19	114	5	CU1057D1	UPH-95	CU1057D3	UPH-95F	GN0945V0
95	120	15	16	19	118	5	CU1061D0	UPH-95B			GN6716V0
100	120	12	13	16	118	5	CU1089D3	UPH-100A	CU1089D7	UPH-100AF	GN0952V0
100	120	15	16	19	118	5	CU1091D0	UPH-100	CU1091D3	UPH-100F	GN0952V0
100	125	15	16	19	123	5	CU1096D0	UPH-100B	CU1096D3	UPH-100BF	GN7297V0
105	125	15	16	19	123	5	CU1129D2	UPH-105	CU1129D4	UPH-105F	GN0959V0
106	126	15	16	19	124	5	CU1138D0	UPH-106			GN0961V0
110	130	15	16	19	128	5	CU1165D1	UPH-110	CU1165D4	UPH-110F	GN6790V0
112	132	15	16	19	130	5	CU1182D0	UPH-112	CU1182D3	UPH-112F	GN0970V0
115	135	15	16	19	133	5	CU1198D0	UPH-115			GN0974V0
118	138	15	16	19	136	5	CU1207D0	UPH-118	CU1207D2	UPH-118F	GN0978V0
120	140	15	16	19	138	5	CU1224D2	UPH-120	CU1224D1	UPH-120F	GN0982V0
125	145	15	16	19	143	6.5	CU1257D0	UPH-125A			GN0986V0
125	150	19	20	23	148	6.5	CU1933D0	UPH-125	CU1933D2	UPH-125F	GN6135V0
130	150	15	16	19	148	6.5	CU1284D2	UPH-130A	CU1284D4	UPH-130AF	GN6925V0
130	155	19	20	23	153	6.5	CU3320D0	UPH-130			GN7012V0
132	152	15	16	19	150	6.5	CU1292D0	UPH-132A			GN0994V0
132	157	19	20	23	155	6.5	CU2703D1	UPH-132	CU2703D2	UPH-132F	GN7013V0
135	155	15	16	19	153	6.5	CU1305D0	UPH-135B			GN0998V0
135	160	15.7	17	20	158	6.5	CU3322D0	UPH-135A			GN6492V0
135	160	19	20	23	158	6.5	CU1960D0	UPH-135			GN6492V0
140	160	15	16	19	158	6.5	CU1327D1	UPH-140A	CU1327D4	UPH-140AF	GN1002V0
140	165	19	20	23	163	6.5	CU1332D2	UPH-140			GN6494V0
145	165	15	16	19	163	6.5	CU1344D0	UPH-145A			GN1007V0
145	170	19	20	23	168	6.5	CU2348D0	UPH-145	CU2348D1	UPH-145F	GN6496V0

Remark) The Part number and the one stamped on the product might be different in case of heat resistant type.

HOW TO DETERMINE B DIMENSION

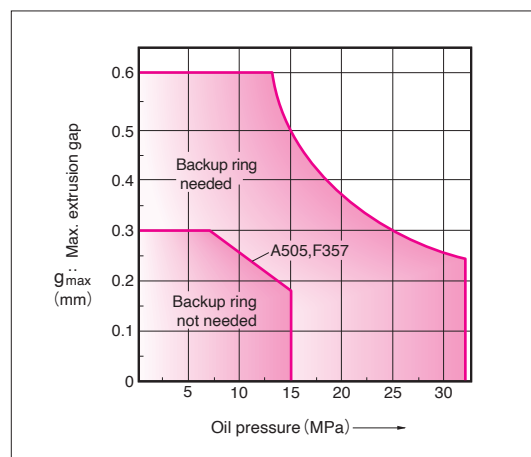
■ When using backup ring

Please determine B dimension according to the table below. If you require smaller B dimension (in case of piston seals) or larger B dimension (in case of rod seals) because of the cylinder configuration, please consult NOK.

Maximum Service Pressure	15MPa	32MPa	
Material of Backup ring	19YF		
B Dimension	For rod	$B \leq \phi d + 1.0$	$B \leq \phi d + 0.5$
	For piston	$B \geq \phi D - 1.0$	$B \geq \phi D - 0.5$

■ When not using backup ring

To determine B dimension, please refer to the graph in the right for the maximum extrusion gap (one side) considering the eccentricity of operating condition of the piston or rod.



Nominal Size of Packing, and Housing dimensions							Standard (A505)		Heat resistant (F357)		Combination Backup Ring Part Number
d	D	h	H _A	H _B	φD ₁	C	Packing Part Number	Nominal Number	Packing Part Number	Nominal Number	BRT3 (Endless)
											19YF
150	170	15	16	19	168	6.5	CU1363D2	UPH-150A	CU1363D3	UPH-150AF	GN1011V0
150	175	19	20	23	173	6.5	CU1367D0	UPH-150			GN7014V0
155	180	15	16	20	178	6.5	CU1391D2	UPH-155B	CU1391D4	UPH-155BF	GN1016V0
155	180	15.7	17	21	178	6.5	CU3323D0	UPH-155A			GN1016V0
155	180	19	20	24	178	6.5	CU1393D0	UPH-155			GN1016V0
160	185	15	16	20	183	6.5	CU1413D0	UPH-160A	CU1413D3	UPH-160AF	GN1020V0
160	185	19	20	24	183	6.5	CU2349D0	UPH-160			GN1020V0
165	190	15	16	20	188	6.5	CU1431D0	UPH-165A			GN1023V0
165	190	19	20	24	188	6.5	CU3324D0	UPH-165			GN1023V0
170	195	15	16	20	193	6.5	CU1448D1	UPH-170A	CU1448D3	UPH-170AF	GN1027V0
170	195	19	20	24	193	6.5	CU3325D0	UPH-170			GN1027V0
175	200	15	16	20	198	6.5	CU1461D2	UPH-175B	CU1461D3	UPH-175BF	GN1031V0
175	200	15.7	17	21	198	6.5	CU3326D0	UPH-175A			GN1031V0
175	200	19	20	24	198	6.5	CU1463D1	UPH-175			GN1031V0
180	205	15	16	20	203	6.5	CU1490D0	UPH-180A			GN1035V0
180	205	19	20	24	203	6.5	CU1492D0	UPH-180			GN1035V0
185	210	15	16	20	208	6.5	CU1504D0	UPH-185			GN1039V0
190	215	15	16	20	213	6.5	CU1519D0	UPH-190A	CU1519D2	UPH-190AF	GN1042V0
190	215	19	20	24	213	6.5	CU3327D0	UPH-190			GN1042V0
199	224	15	16	20	222	6.5	CU1532D0	UPH-199B			GN1047V0
199	224	15.7	17	21	222	6.5	CU3329D0	UPH-199A			GN1047V0
199	224	19	20	24	222	6.5	CU1535D0	UPH-199			GN1047V0
200	225	15	16	20	223	6.5	CU1547D0	UPH-200A	CU1547D4	UPH-200AF	GN1050V0
200	225	19	20	24	223	6.5	CU2350D0	UPH-200			GN1050V0
210	235	18	19	23	233	6.5	CU1579D0	UPH-210			GN1057V0
212	237	19	20	24	235	6.5	CU1585D0	UPH-212			GN1058V0
215	240	19	20	24	238	6.5	CU3331D0	UPH-215			GN7256V0
224	249	19	20	24	247	6.5	CU2926D0	UPH-224	CU2926D1	UPH-224F	GN7282V0
225	250	18	19	23	248	6.5	CU1625D0	UPH-225A			GN1065V0
225	250	19	20	24	248	6.5	CU1626D0	UPH-225	CU1626D1	UPH-225F	GN1065V0
236	261	19	20	24	259	6.5	CU1649D1	UPH-236			GN6191V0
250	275	19	20	24	273	6.5	CU1683D1	UPH-250			GN1078V0
255	280	19	20	24	278	8	CU1694D0	UPH-255	CU1694D3	UPH-255F	GN6513V0
265	297	24	26	30	295	8	CU1714D0	UPH-265			GN6515V0
270	300	18	19	23	298	8	CU1722D0	UPH-270A			GN1089V0
270	300	24	26	30	298	8	CU1725D0	UPH-270	CU1725D1	UPH-270F	GN1089V0
280	310	22	24	28	308	8	CU2774D0	UPH-280A			GN1093V0
280	312	24	26	30	310	8	CU2166D0	UPH-280	CU2166D1	UPH-280F	GN6519V0
283	315	24	26	30	313	8	CU1918D0	UPH-283			GN7358V0
290	320	18	19	23	318	8	CU1750D0	UPH-290A			GN1098V0
290	320	22	24	28	318	8	CU1752D0	UPH-290			GN1098V0
300	332	24	26	30	330	8	CU2351D0	UPH-300			GN6522V0

Remark) The Part number and the one stamped on the product might be different in case of heat resistant type.

UPH^{TYPE} PACKINGS FOR BOTH PISTON AND ROD SEALS

[Large size dimension table]

■ When using packings on this large size, please consult NOK.

Nominal Size of Packing, and Housing dimensions							Standard (A505)		Heat resistant (F357)		Combination Backup Ring Part Number
d	D	h	H _A	H _B	φD ₁	C	Packing Part Number	Nominal Number	Packing Part Number	Nominal Number	BRT3 (Endless)
											19YF
310	340	18	19	23	338	10	CU1772D0	UPH-310A			
310	340	22	24	28	338	10	CU1773D0	UPH-310	CU1773D2	UPH-310F	
315	347	24	26	30	345	10	CU3064D0	UPH-315			
320	340	12	13	17	338	10	CU2101D0	UPH-320A			
320	350	22	24	28	348	10	CU1780D0	UPH-320			
323	355	24	26	30	353	10	CU1784D0	UPH-323			
330	355	16	17	21	353	10	CU1786D0	UPH-330A			
330	356	20	22	26	354	10	CU1787D0	UPH-330B			
330	360	22	24	28	358	10	CU1789D0	UPH-330			
335	355	14	15	19	353	10	CU1793D1	UPH-335A			
335	367	24	26	30	365	10	CU2197D0	UPH-335			
340	370	22	24	28	368	10	CU1795D0	UPH-340			
345	365	14	15	19	363	10	CU2243D0	UPH-345			
348	380	24	26	30	378	10	CU2087D1	UPH-348			
350	370	14	15	19	368	10	CU2302D0	UPH-350A			
350	380	22	24	28	378	10	CU1799D2	UPH-350			
355	385	22	24	28	383	10	CU1801D0	UPH-355A			
355	387	24	26	30	385	10	CU1916D0	UPH-355			
360	390	22	24	28	388	10	CU1803D0	UPH-360	CU1803D2	UPH-360F	
365	395	22	24	28	393	10	CU1805D0	UPH-365			
368	400	24	26	30	398	10	CU1807D0	UPH-368	CU1807D1	UPH-368F	
370	400	23	25	29	398	10	CU1810D0	UPH-370A			
370	400	25	27	31	398	10	CU1811D0	UPH-370			
371	396	16	17	21	394	10	CU2303D0	UPH-371			
375	407	24	26	30	405	10	CU3357D0	UPH-375			
380	400	15	16	20	398	10	CU1813D0	UPH-380A			
380	410	15	16	20	408	10	CU1815D0	UPH-380B			
380	420	30	32	36	418	10	CU2162D0	UPH-380			
390	420	22	24	28	418	10	CU1818D0	UPH-390			
395	425	22	24	28	423	10	CU1819D0	UPH-395			
400	430	22	24	28	428	10	CU1823D0	UPH-400A			
400	430	25	27	31	428	10	CU2007D0	UPH-400B			
400	432	24	26	30	430	10	CU3358D0	UPH-400			

Remark 1) When using packings on this large size, please consult NOK.

Remark 2) When placing orders for the backup ring on this large size, please consult NOK.

Remark 3) The Part number and the one stamped on the product might be different in case of heat resistant type.

Nominal Size of Packing, and Housing dimensions							Standard (A505)		Heat resistant (F357)		Combination Backup Ring Part Number
d	D	h	H _A	H _B	φD ₁	C	Packing Part Number	Nominal Number	Packing Part Number	Nominal Number	BRT3 (Endless)
											19YF
420	455	25	27	32	453	10	CU1833D0	UPH-420			
425	457	24	26	31	455	10	CU1917D0	UPH-425			
430	470	20	22	27	468	10	CU1837D0	UPH-430			
435	470	25	27	32	468	10	CU1841D0	UPH-435			
440	480	35	37	42	478	10	CU1843D0	UPH-440			
445	470	18	19	24	468	10	CU2244D0	UPH-445			
450	480	22	24	29	478	10	CU1844D0	UPH-450A			
450	482	24	26	31	480	10	CU3359D0	UPH-450			
460	500	20	22	27	498	10	CU1850D0	UPH-460			
475	507	24	26	31	505	10	CU1853D0	UPH-475			
480	505	18	19	24	503	10	CU2245D0	UPH-480A			
490	530	25	27	32	528	10	CU1855D0	UPH-490			
520	550	17	18	23	548	10	CU2189D0	UPH-520A			
525	555	15	16	21	553	10	CU1860D0	UPH-525			
530	570	20	22	27	568	10	CU2084D0	UPH-530A			
540	560	14	15	20	558	10	CU2037D0	UPH-540			
570	600	17	18	23	598	10	CU2190D0	UPH-570A			
600	630	20	22	27	628	10	CU2160D0	UPH-600A			
600	630	28	30	35	628	10	CU2036D0	UPH-600B			
600	640	30	32	37	638	10	CU1868D0	UPH-600			
640	685	25	27	32	683	12	CU2284D0	UPH-640			
700	730	15	16	21	728	12	CU1873D0	UPH-700A			
760	800	34	36	41	798	12	CU1877D0	UPH-760			
768	800	30	32	37	798	12	CU1878D0	UPH-768			
818	850	24	26	31	848	12	CU1882D1	UPH-818			
825	850	15.5	16.5	21.5	848	12	CU1883D0	UPH-825A			
825	860	27	29	34	858	12	CU2124D0	UPH-825			
925	950	14	15	20	948	12	CU2325D0	UPH-925			
950	980	20	22	27	978	12	CU1892D0	UPH-950			
1020	1050	18	19	24	1048	12	CU1894D0	UPH-1020A			
1025	1055	15	16	21	1053	12	CU1895D0	UPH-1025			
1100	1140	20	22	27	1138	12	CU2192D0	UPH-1100			
1220	1280	30	32	37	1278	12	CU1899D0	UPH-1220			
1560	1600	20	22	27	1598	12	CU2191D0	UPH-1560			
1620	1680	30	32	37	1678	12	CU1904D0	UPH-1620			

Remark 1) When using packings on this large size, please consult NOK.

Remark 2) When placing orders for the backup ring on this large size, please consult NOK.

Remark 3) The Part number and the one stamped on the product might be different in case of heat resistant type.

USH TYPE

PACKINGS FOR BOTH
PISTON AND ROD SEALS
NITRILE RUBBER (NBR)
FLUORORUBBER (FKM)



● Please designate NOK Part number and type & size on your order.

(Example) Order for the packing as a single piece

· Type Dimensions	USH	12	20	5	
	└─ Type Sign	└─ Nominal Size of Packing described in order of inner diameter(d), outer diameter(D), and height(h)			
· Part Number	CU3248K0				

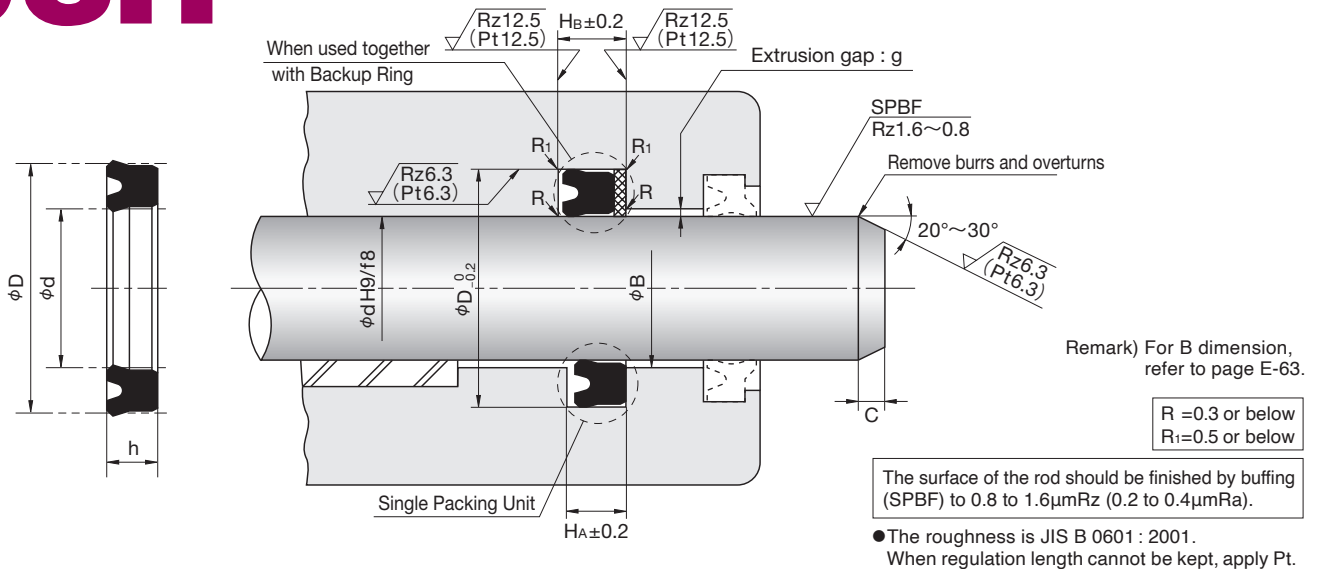
※ When placing orders for backup rings used in combination with packing, designate the NOK part number and the model size.

· Type Dimensions	BRT2	12	20	2	
	└─ Type Sign	└─ Nominal Size of Backup ring described in order of inner diameter(d), outer diameter(D), and thickness(t)*			
· Part Number	GN5723V0				*t = H _B -H _A (Housing dimensions)

● Please check the application range on pages 18 and 19 before selecting the type.

Material	Standard : NOK A505 Heat resistant type : NOK F357
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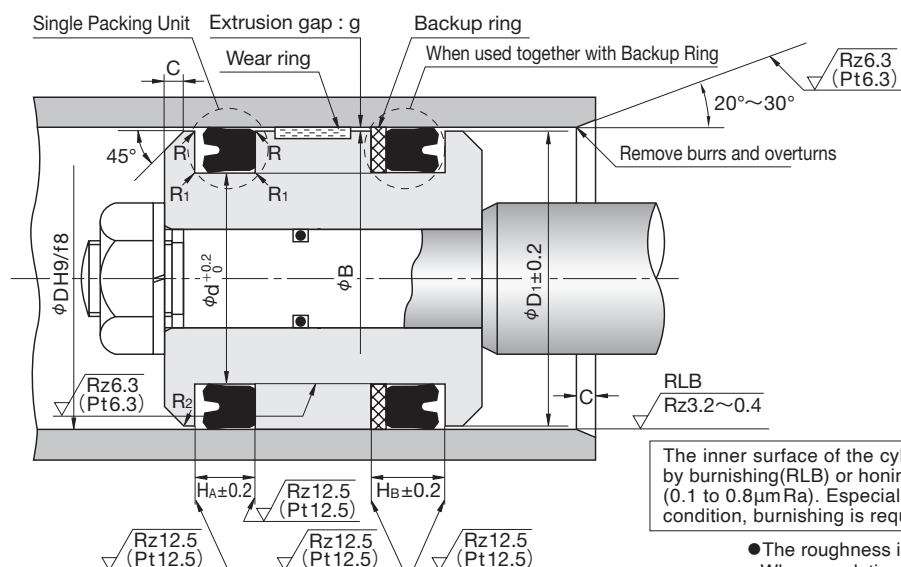
USH TYPE PACKINGS FOR BOTH PISTON AND ROD SEALS (INSTALLED WITH INTERNAL GROOVE)



Nominal Size of Packing, and Housing dimensions							Standard (A505)		Heat resistant (F357)		Combination Backup Ring Part Number
d	D	h	HA	HB	ϕD_1	C	Packing Part Number	Nominal Number	Packing Part Number	Nominal Number	BRT2 (Biascut)
12	20	5	5.7	7.7	19	2	● CU3248K0	USH-12			GN5723V0
14	22	5	5.7	7.7	21	2	● CU2692K0	USH-14			GN5719V0
16	24	5	5.7	7.7	23	2	● CU2548K0	USH-16	● CU2548K2	USH-16F	GN5720V0
18	26	5	5.7	7.7	25	2	CU0180K0	USH-18	CU0180K6	USH-18F	GN4778V0
20	28	5	5.7	7.7	27	2	CU0212K0	USH-20	CU0212K4	USH-20F	GN4780V0
22	30	5	5.7	7.7	29	2	CU3017K0	USH-22	CU3017K3	USH-22F	GN5726V0
22.4	30	5	5.7	7.7	29	2	CU0260K0	USH-22.4	CU0260K3	USH-22.4F	GN4784V0
23.5	31.5	5	5.7	7.7	30.5	2	CU0267K0	USH-23.5			GN4786V0
24	32	5	5.7	7.7	31	2	CU2971K0	USH-24	CU2971K1	USH-24F	GN5727V0
25	33	5	5.7	7.7	32	2.5	CU0276K0	USH-25	CU0276K3	USH-25F	GN5019V1
27	35	5	5.7	8.7	34	2.5	CU3187K0	USH-27			GN5707V0
28	35.5	5	5.7	8.7	34.5	2.5	CU0320K0	USH-28	CU0320K2	USH-28F	GN4791V0
28	36	5	5.7	8.7	35	2.5	CU2536K0	USH-28A			GN5715V0
30	40	6	7	10	39	2.5	CU0357K0	USH-30	CU0357K6	USH-30F	GN4794V0
31.5	41.5	6	7	10	40.5	2.5	CU0382K0	USH-31.5	CU0382K1	USH-31.5F	GN4796V0
32	42	6	7	10	41	2.5	CU2819K0	USH-32			GN5730V0
35	45	6	7	10	44	2.5	CU0424K0	USH-35	CU0424K3	USH-35F	GN4799V0
35.5	45	6	7	10	44	2.5	CU0451K0	USH-35.5	CU0451K1	USH-35.5F	GN4801V0
35.5	45.5	6	7	10	44.5	2.5	CU3253K0	USH-35.5A			GN5716V0
36	46	6	7	10	45	2.5	CU3040K1	USH-36			GN5733V0
40	50	6	7	10	49	2.5	CU0497K0	USH-40	CU0497K3	USH-40F	GN4050V0
45	55	6	7	10	54	2.5	CU0567K0	USH-45	CU0567K4	USH-45F	GN4804V0
45	56	7	8	11	55	2.5	CU0572K0	USH-45A	CU0572K1	USH-45AF	GN4805V0
50	60	6	7	10	59	2.5	CU0619K0	USH-50	CU0619K4	USH-50F	GN4335V0
53	63	6	7	10	62	2.5	CU0679K0	USH-53	CU0679K4	USH-53F	GN4693V0
55	65	6	7	10	64	2.5	CU0694K0	USH-55			GN4810V0
56	66	6	7	10	65	2.5	CU0722K0	USH-56	CU0722K2	USH-56F	GN4766V0
58	68	6	7	10	67	2.5	CU3255K0	USH-58			GN5641V0
60	70	6	7	10	69	2.5	CU0746K0	USH-60	CU0746K3	USH-60F	GN4676V0
60	71	7	8	11	70	2.5	CU0750K0	USH-60A			GN4812V0
63	73	6	7	10	72	2.5	CU0786K0	USH-63	CU0786K2	USH-63F	GN4814V0
65	75	6	7	10	74	2.5	CU0809K0	USH-65	CU0809K2	USH-65F	GN4816V0
67	77	6	7	10	76	2.5	CU0828K0	USH-67	CU0828K1	USH-67F	GN4697V0
70	80	6	7	10	79	2.5	CU0849K0	USH-70	CU0849K4	USH-70F	GN4651V0
71	80	6	7	10	79	2.5	CU0879K0	USH-71	CU0879K1	USH-71F	GN4818V0
75	85	6	7	10	84	2.5	CU0901K0	USH-75			GN4692V0
80	90	6	7	10	89	2.5	CU0939K0	USH-80	CU0939K3	USH-80F	GN4820V0
85	95	6	7	10	94	4	CU1959K0	USH-85A			GN4757V0
85	100	9	10	13	98	4	CU0984K0	USH-85	CU0984K4	USH-85F	GN4687V0
90	100	6	7	10	99	4	CU1021K0	USH-90A			GN5735V0
90	105	9	10	13	103	4	CU1024K0	USH-90	CU1024K4	USH-90F	GN4698V0
95	110	9	10	13	108	4	CU1051K0	USH-95	CU1051K3	USH-95F	GN4822V0

Remark 1) When using the packing with ●, provide separate grooves.

Remark 2) The Part number and the one stamped on the product might be different in case of heat resistant type.



Nominal Size of Packing, and Housing dimensions							Standard (A505)		Heat resistant (F357)		Combination Backup Ring Part Number BRT2 (Biascut)
d	D	h	HA	HB	φD ₁	C	Packing Part Number	Nominal Number	Packing Part Number	Nominal Number	19YF
98	112	8.5	9.5	12.5	110	4	CU1067K0	USH-98	CU1067K2	USH-98F	GN4824V0
100	115	9	10	13	113	4	CU1082K0	USH-100	CU1082K3	USH-100F	GN4512V0
106	120	8.5	9.5	12.5	118	4	CU1135K0	USH-106	CU1135K1	USH-106F	GN4826V0
110	125	9	10	13	123	4	CU1157K0	USH-110			GN4480V0
112	125	8.5	9.5	12.5	123	4	CU1178K0	USH-112	CU1178K1	USH-112F	GN4827V0
112	125	9	10	13	123	4	CU1179K0	USH-112A			GN4827V0
115	130	8.5	9.5	12.5	128	4	CU3259K0	USH-115			GN4593V0
118	132	8.5	9.5	12.5	130	4	CU1204K0	USH-118			GN5414V0
125	140	9	10	13	138	4	CU1252K0	USH-125	CU1252K2	USH-125F	GN4481V0
130	145	9	10	13	143	4	CU1280K0	USH-130			GN4628V1
132	145	8.5	9.5	12.5	143	4	CU1291K0	USH-132			GN5737V0
136	150	8.5	9.5	12.5	148	4	CU1306K0	USH-136	CU1306K3	USH-136F	GN4830V0
140	155	9	10	13	153	4	CU1323K0	USH-140	CU1323K1	USH-140F	GN4526V0
145	160	9	10	13	158	4	CU1343K0	USH-145	CU1343K2	USH-145F	GN4551V0
150	165	9	10	13	163	4	CU1359K0	USH-150	CU1359K1	USH-150F	GN4833V0
155	170	9	10	14	168	4	CU3261K0	USH-155			GN4834V0
160	175	9	10	14	173	4	CU1406K0	USH-160	CU1406K2	USH-160F	GN4835V0
165	180	9	10	14	178	4	CU1429K0	USH-165	CU1429K2	USH-165F	GN4836V0
170	185	9	10	14	183	4	CU3262K0	USH-170			GN5464V0
175	190	9	10	14	188	4	CU3038K0	USH-175			GN4839V0
180	200	12	13	17	198	5	CU1483K0	USH-180	CU1483K2	USH-180F	GN4470V0
190	210	12	13	17	208	5	CU2516K0	USH-190	CU2516K1	USH-190F	GN4841V0
195	215	12	13	17	213	5	CU3263K0	USH-195			GN5746V0
200	220	12	13	17	218	5	CU1543K0	USH-200	CU1543K1	USH-200F	GN4385V0
204	224	12	13	17	222	5	CU1563K0	USH-204	CU1563K1	USH-204F	GN4842V0
220	240	12	13	17	238	5	CU1596K0	USH-220			GN4444V0
224	244	12	13	17	242	5	CU1609K0	USH-224			GN5132V0
230	250	12	13	17	248	5	CU1637K0	USH-230	CU1637K1	USH-230F	GN4635V0
240	260	12	13	17	258	5	CU1657K0	USH-240			GN4845V0
250	270	12	13	17	268	5	CU1678K0	USH-250			GN4459V0
260	280	14	15	19	278	5	CU1702K0	USH-260	CU1702K1	USH-260F	GN5563V0
280	300	14	15	19	298	5	CU1962K0	USH-280			GN5459V0
295	315	14	15	19	313	5	CU1756K0	USH-295			GN5738V0
300	320	12	13	17	318	5	CU3267K0	USH-300			GN5581V0
335	355	14	15	19	353	5	CU1793K0	USH-335			
355	375	14	15	19	373	5	CU3270K0	USH-355			
380	400	14	15	19	398	5	CU2002K0	USH-380			
400	420	14	15	19	418	5	CU3271K0	USH-400			
450	470	14	15	20	468	5	CU3273K0	USH-450			
500	525	17	18	23	523	6.5	CU3275K0	USH-500			

Remark 1) When using packings on this large size, please consult NOK.

Remark 2) The Part number and the one stamped on the product might be different in case of heat resistant type.

Remark 3) When placing orders for the backup ring on this large size, please consult NOK.

