Power-Lock® AS Series

Sizes : φ19～φ300
Shaft tolerance : h8
Hub bore tolerance : H8
Surface roughness : Ra1.6

* Can be made for shaft diameters of 300 mm or more. Contact us for details.

All models are RoHS compliant.

Features

1 Multipurpose
Ideally structured and highly reliable locking devices.

2 Low Machining Costs
Keyways, splines, presses and thermal fittings are not required. Optimum performance is achieved with low shaft tolerance of h8, hub bore tolerance of H8, and surface roughness of Ra1.6, thereby minimizing the total machining costs.

3 Easy to Install and Remove
Installs or removes just by the tightening or loosening of bolts. No need to hassle with adjusting keyways and thermal fittings.

4 Options to Fit Every Application
Stainless steel and electroless nickel plating options are offered for standard models. Both are highly durable in corrosive or clean room environments.

AS

Parts

Locking Bolts

Taper Ring (A)

Outer Ring

Inner Ring

Taper Ring (B)

"Power-Lock" AS Series shaft-hub locking devices are simply constructed of the following five parts: taper rings (A) and (B), inner and outer rings and locking bolts. Simply tighten these bolts to achieve a completely secure connection.

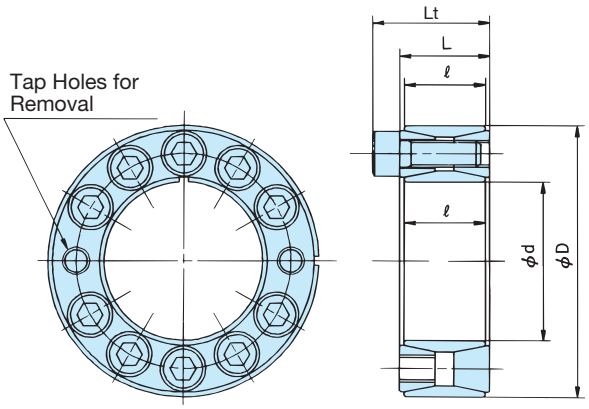
Reference Number System

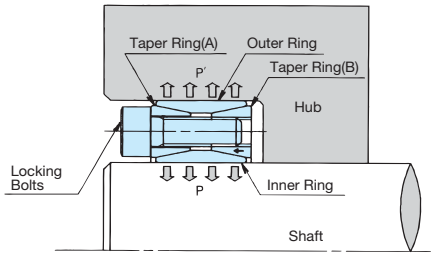
PL 020 X 047 AS

- PL — Power-Lock
- 020 — Shaft Diameter mm
- 047 — Outer Diameter mm
- AS — Series
  - AS : Standard
  - AS-SS : Stainless Steel
  - AS-KP : Electroless Nickel-Plated

Model Numbers and Specifications

Standard





P and P' represent the average contact pressure applied to the shaft and hub respectively. These values may vary from -20% to +40%, depending on the amount of friction applied to the bolts. Transmissible torque Mt and transmissible thrust Pax are calculated from the minimum allowable contact pressure.

* Note) 3

Model No. d X D Shaft Diameter X Outer Diameter mm	Dimensions mm			Transmissible Torque		Transmissible Thrust		Shaft Contact Pressure		Hub Contact Pressure		Locking Bolts				Mass
	L	ℓ	Lt	Mt		Pax		P		P'		Quantity	Size	Tightening Torque M_A		
				N·m	{kgf·m}	kN	{kgf}	MPa	{kgf/mm²}	MPa	{kgf/mm²}			N·m	{kgf·m}	kg
PL 019 X 047 AS	20	18	26	294	30	30.4	3100	241	24.6	98	10.0	6	M6×18	18.3	1.87	0.20
PL 020 X 047 AS	20	18	26	304	31	30.4	3100	229	23.4	98	10.0	6	M6×18	18.3	1.87	0.20
PL 022 X 047 AS	20	18	26	333	34	30.4	3100	209	21.3	98	10.0	6	M6×18	18.3	1.87	0.19
PL 024 X 050 AS	20	18	26	461	47	38.2	3900	241	24.6	116	11.8	8	M6×18	18.3	1.87	0.22
PL 025 X 050 AS	20	18	26	480	49	38.2	3900	231	23.6	116	11.8	8	M6×18	18.3	1.87	0.22
PL 028 X 055 AS	20	18	26	539	55	38.2	3900	207	21.1	106	10.8	8	M6×18	18.3	1.87	0.25
PL 030 X 055 AS	20	18	26	578	59	38.2	3900	193	19.7	106	10.8	8	M6×18	18.3	1.87	0.24
PL 032 X 060 AS	20	18	26	784	80	49.0	5000	228	23.3	123	12.5	10	M6×18	18.3	1.87	0.27
PL 035 X 060 AS	20	18	26	862	88	49.0	5000	209	21.3	123	12.5	10	M6×18	18.3	1.87	0.27
PL 038 X 065 AS	20	18	26	1029	105	53.9	5500	212	21.6	123	12.6	11	M6×18	18.3	1.87	0.30
PL 040 X 065 AS	20	18	26	1088	111	53.9	5500	201	20.5	123	12.6	11	M6×18	18.3	1.87	0.30
PL 042 X 075 AS	24	21	32	1720	175	81.3	8300	247	25.2	138	14.1	9	M8×22	40.2	4.10	0.51
PL 045 X 075 AS	24	21	32	1840	188	81.3	8300	230	23.5	138	14.1	9	M8×22	40.2	4.10	0.51
PL 048 X 080 AS	24	21	32	1960	200	81.3	8300	217	22.1	130	13.3	9	M8×22	40.2	4.10	0.55
PL 050 X 080 AS	24	21	32	2050	209	81.3	8300	208	21.2	130	13.3	9	M8×22	40.2	4.10	0.55
PL 055 X 085 AS	24	21	32	2750	281	100	10200	230	23.5	149	15.2	11	M8×22	40.2	4.10	0.60
PL 060 X 090 AS	24	21	32	3000	306	100	10200	212	21.6	141	14.4	11	M8×22	40.2	4.10	0.64
PL 065 X 095 AS	24	21	32	3550	362	108.8	11100	213	21.7	146	14.9	12	M8×22	40.2	4.10	0.69
PL 070 X 110 AS	28	25	38	5490	560	159	16200	241	24.6	154	15.7	11	M10×25	81.3	8.30	1.21
PL 075 X 115 AS	28	25	38	5880	600	159	16200	225	23.0	147	15.0	11	M10×25	81.3	8.30	1.27
PL 080 X 120 AS	28	25	38	6270	640	159	16200	212	21.6	141	14.4	11	M10×25	81.3	8.30	1.33
PL 085 X 125 AS	28	25	38	7350	750	173	17700	217	22.1	148	15.1	12	M10×25	81.3	8.30	1.41
PL 090 X 130 AS	28	25	38	7740	790	173	17700	205	20.9	142	14.5	12	M10×25	81.3	8.30	1.47
PL 095 X 135 AS	28	25	38	8920	910	187	19100	211	21.5	148	15.1	13	M10×25	81.3	8.30	1.54
PL 100 X 145 AS	33	29	45	11560	1180	231	23600	213	21.7	147	15.0	11	M12×30	142	14.5	2.09
PL 110 X 155 AS	33	29	45	12600	1290	231	23600	193	19.7	137	14.0	11	M12×30	142	14.5	2.25
PL 120 X 165 AS	33	29	45	15100	1540	252	25700	193	19.7	140	14.3	12	M12×30	142	14.5	2.42
PL 130 X 180 AS	38	34	50	20500	2090	316	32200	190	19.4	137	14.0	15	M12×35	142	14.5	3.38
PL 140 X 190 AS	38	34	50	23500	2400	336	34300	188	19.2	139	14.2	16	M12×35	142	14.5	3.59
PL 150 X 200 AS	38	34	50	28300	2890	378	38600	198	20.2	148	15.1	18	M12×35	142	14.5	3.82
PL 160 X 210 AS	38	34	50	31900	3260	400	40800	196	20.0	149	15.2	19	M12×35	142	14.5	4.03
PL 170 X 225 AS	44	40	58	39200	4000	462	47100	180	18.4	136	13.9	16	M14×40	225	23.0	5.49
PL 180 X 235 AS	44	40	58	44100	4500	491	50100	181	18.5	139	14.2	17	M14×40	225	23.0	5.78
PL 190 X 250 AS	52	48	66	54900	5600	577	58900	169	17.2	128	13.1	20	M14×45	225	23.0	7.89
PL 200 X 260 AS	52	48	66	60600	6180	606	61800	169	17.2	129	13.2	21	M14×45	225	23.0	8.26
PL 220 X 285 AS	56	51	72	79500	8110	722	73700	172	17.5	132	13.5	18	M16×50	348	35.5	10.6
PL 240 X 305 AS	56	51	72	96300	9830	803	81900	174	17.8	137	14.0	20	M16×50	348	35.5	11.5
PL 260 X 325 AS	56	51	72	120000	12200	923	94200	185	18.9	148	15.1	23	M16×50	348	35.5	12.4
PL 280 X 355 AS	66	61	84	148000	15100	1062	108400	166	16.9	130	13.3	22	M18×60	475	48.5	18.7
PL 300 X 375 AS	66	61	84	173000	17700	1160	118000	169	17.2	135	13.8	24	M18×60	475	48.5	19.9

Notes) 1. Stocked models are in bold.
2. Mt indicates torque at 0 transmissible thrust, while Pax indicates transmissible thrust at 0 torque. If transmissible torque and thrust apply simultaneously calculate and compare the combined value with the transmissible torque provided in the table.
3. Dimensions when this product is attached to the shaft and hub.
4. Can be made for shaft diameters of 300 mm or more. Contact us for details.

Model Numbers and Specifications

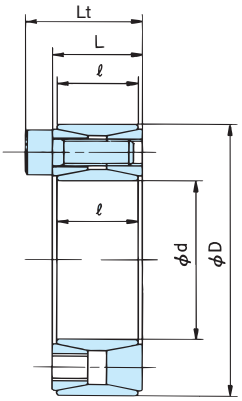
Electroless Nickel-Plated (AS-KP) Models

● Important Notes

1. Dimensions are the same as the standard AS specifications.
2. The units are plated with peel-proof electroless nickel.
3. The locking bolts are DISGO treated so that assembly lubrication is not necessary. The electroless nickel-plated models are chrome-free and environmentally friendly.

● Applications

Most suitable for clean-room operation requiring minimum rust.



* Note) 3

Model No. d X D Shaft Diameter X Outer Diameter	Dimensions mm			Transmissible Torque		Transmissible Thrust		Shaft Contact Pressure		Hub Contact Pressure		Locking Bolts				Mass
	L	ℓ	Lt	Mt		Pax		P		P'		Quantity	Size	Tightening Torque M_A		
				N·m	{kgf·m}	kN	{kgf}	MPa	{kgf/mm²}	MPa	{kgf/mm²}			N·m	{kgf·m}	kg
PL 019 X 047 AS-KP	20	18	26	245	25	26.5	2700	210	21.4	85	8.7	6	M6×18	16.7	1.7	0.20
PL 020 X 047 AS-KP	20	18	26	265	27	26.5	2700	199	20.3	85	8.7	6	M6×18	16.7	1.7	0.20
PL 022 X 047 AS-KP	20	18	26	294	30	26.5	2700	181	18.5	85	8.7	6	M6×18	16.7	1.7	0.19
PL 024 X 050 AS-KP	20	18	26	402	41	33.3	3400	211	21.5	101	10.3	8	M6×18	16.7	1.7	0.22
PL 025 X 050 AS-KP	20	18	26	421	43	33.3	3400	203	20.7	101	10.3	8	M6×18	16.7	1.7	0.22
PL 028 X 055 AS-KP	20	18	26	470	48	33.3	3400	180	18.4	92	9.4	8	M6×18	16.7	1.7	0.25
PL 030 X 055 AS-KP	20	18	26	510	52	33.3	3400	169	17.2	92	9.4	8	M6×18	16.7	1.7	0.24
PL 032 X 060 AS-KP	20	18	26	676	69	42.1	4300	198	20.2	106	10.8	10	M6×18	16.7	1.7	0.27
PL 035 X 060 AS-KP	20	18	26	745	76	42.1	4300	181	18.5	106	10.8	10	M6×18	16.7	1.7	0.27
PL 038 X 065 AS-KP	20	18	26	892	91	47.0	4800	183	18.7	107	10.9	11	M6×18	16.7	1.7	0.30
PL 040 X 065 AS-KP	20	18	26	941	96	47.0	4800	174	17.8	107	10.9	11	M6×18	16.7	1.7	0.30
PL 042 X 075 AS-KP	24	21	32	1490	152	70.6	7200	214	21.8	121	12.3	9	M8×22	40.2	4.1	0.51
PL 045 X 075 AS-KP	24	21	32	1600	163	70.6	7200	200	20.4	121	12.3	9	M8×22	40.2	4.1	0.51
PL 048 X 080 AS-KP	24	21	32	1700	173	70.6	7200	188	19.2	113	11.5	9	M8×22	40.2	4.1	0.55
PL 050 X 080 AS-KP	24	21	32	1770	181	70.6	7200	180	18.4	113	11.5	9	M8×22	40.2	4.1	0.55
PL 055 X 085 AS-KP	24	21	32	2390	244	86.2	8800	201	20.5	130	13.3	11	M8×22	40.2	4.1	0.60
PL 060 X 090 AS-KP	24	21	32	2610	266	86.2	8800	184	18.8	123	12.5	11	M8×22	40.2	4.1	0.64
PL 065 X 095 AS-KP	24	21	32	3090	315	94.1	9600	184	18.8	126	12.9	12	M8×22	40.2	4.1	0.69
PL 070 X 110 AS-KP	28	25	38	4800	490	138	14100	210	21.4	133	13.6	11	M10×25	81.3	8.3	1.21
PL 075 X 115 AS-KP	28	25	38	5190	530	138	14100	196	20.0	127	13.0	11	M10×25	81.3	8.3	1.27
PL 080 X 120 AS-KP	28	25	38	5490	560	138	14100	184	18.8	123	12.5	11	M10×25	81.3	8.3	1.33
PL 085 X 125 AS-KP	28	25	38	6370	650	150	15300	189	19.3	128	13.1	12	M10×25	81.3	8.3	1.41
PL 090 X 130 AS-KP	28	25	38	6760	690	150	15300	178	18.2	123	12.6	12	M10×25	81.3	8.3	1.47
PL 095 X 135 AS-KP	28	25	38	7740	790	163	16600	183	18.7	129	13.2	13	M10×25	81.3	8.3	1.54
PL 100 X 145 AS-KP	33	29	45	10000	1020	201	20500	184	18.8	127	13.0	11	M12×30	142	14.5	2.09
PL 110 X 155 AS-KP	33	29	45	11100	1130	201	20500	168	17.1	120	12.2	11	M12×30	142	14.5	2.25
PL 120 X 165 AS-KP	33	29	45	13100	1340	220	22400	168	17.1	123	12.5	12	M12×30	142	14.5	2.42
PL 130 X 180 AS-KP	38	34	50	17800	1820	274	28000	166	16.9	120	12.2	15	M12×35	142	14.5	3.38
PL 140 X 190 AS-KP	38	34	50	20500	2090	292	29800	164	16.7	121	12.3	16	M12×35	142	14.5	3.59
PL 150 X 200 AS-KP	38	34	50	24700	2520	329	33600	172	17.5	129	13.2	18	M12×35	142	14.5	3.82
PL 160 X 210 AS-KP	38	34	50	27700	2830	347	35400	170	17.3	129	13.2	19	M12×35	142	14.5	4.03
PL 170 X 225 AS-KP	44	40	58	34100	3480	402	41000	157	16.0	119	12.1	16	M14×40	225	23.0	5.49
PL 180 X 235 AS-KP	44	40	58	38400	3920	426	43500	158	16.1	121	12.3	17	M14×40	225	23.0	5.78
PL 190 X 250 AS-KP	52	48	66	47600	4860	502	51200	147	15.0	112	11.4	20	M14×45	225	23.0	7.89
PL 200 X 260 AS-KP	52	48	66	52700	5380	527	53800	146	14.9	113	11.5	21	M14×45	225	23.0	8.26
PL 220 X 285 AS-KP	56	51	72	69100	7050	628	64100	149	15.2	115	11.7	18	M16×50	348	35.5	10.6
PL 240 X 305 AS-KP	56	51	72	83800	8550	698	71200	152	15.5	120	12.2	20	M16×50	348	35.5	11.5
PL 260 X 325 AS-KP	56	51	72	104000	10600	803	81900	161	16.4	129	13.2	23	M16×50	348	35.5	12.4
PL 280 X 355 AS-KP	66	61	84	129000	13200	923	94200	144	14.7	114	11.6	22	M18×60	475	48.5	18.7
PL 300 X 375 AS-KP	66	61	84	151000	15400	1000	102000	147	15.0	118	12.0	24	M18×60	475	48.5	19.9

Notes) 1. Stocked models are in bold.
2. Mt indicates torque at 0 transmissible thrust, while Pax indicates transmissible thrust at 0 torque. If transmissible torque and thrust apply simultaneously calculate and compare the combined value with the transmissible torque provided in the table.
3. Dimensions when this product is attached to the shaft and hub.

Model Numbers and Specifications

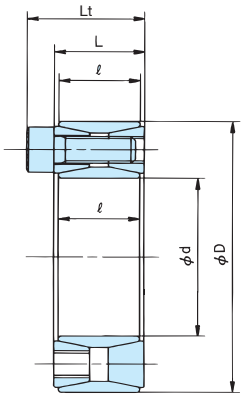
Stainless Steel (AS-SS) Models

● Important Notes

1. The main unit is built with stainless steel while the locking bolts (M12 or below) are made of specially lubricated stainless steel (SUH660). These materials minimize dust and maintain a constant friction coefficient and high efficiency.
2. The locking bolts are highly tensile.

● Applications

Suitable for operation conducted in corrosive or contaminated environments.



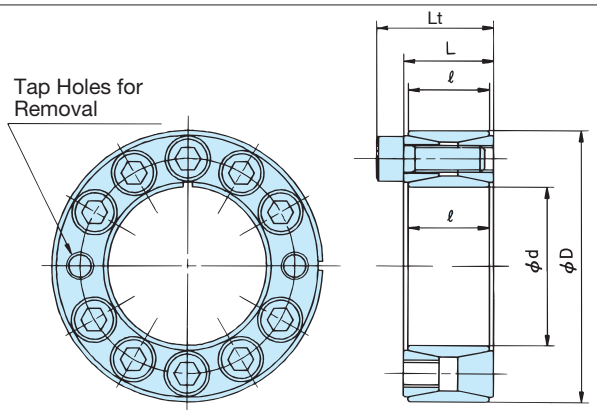
* Note) 3

Model No. d X D Shaft Diameter X Outer Diameter mm	Dimensions mm			Transmissible Torque		Transmissible Thrust		Shaft Contact Pressure		Hub Contact Pressure		Locking Bolts				Mass
	L	ℓ	Lt	Mt		Pax		P		P'		Quantity	Size	Tightening Torque M_A		
				N·m	{kgf·m}	kN	{kgf}	MPa	{kgf/mm²}	MPa	{kgf/mm²}			N·m	{kgf·m}	kg
PL 019 X 047 AS-SS	20	18	26	196	20	21.6	2200	175	17.9	72	7.3	6	M6×18	13.7	1.4	0.20
PL 020 X 047 AS-SS	20	18	26	216	22	21.6	2200	167	17.0	72	7.3	6	M6×18	13.7	1.4	0.20
PL 022 X 047 AS-SS	20	18	26	235	24	21.6	2200	152	15.5	72	7.3	6	M6×18	13.7	1.4	0.19
PL 024 X 050 AS-SS	20	18	26	343	35	28.4	2900	186	19.0	89	9.1	8	M6×18	13.7	1.4	0.22
PL 025 X 050 AS-SS	20	18	26	353	36	28.4	2900	178	18.2	89	9.1	8	M6×18	13.7	1.4	0.22
PL 028 X 055 AS-SS	20	18	26	402	41	28.4	2900	160	16.3	81	8.3	8	M6×18	13.7	1.4	0.25
PL 030 X 055 AS-SS	20	18	26	431	44	28.4	2900	149	15.2	81	8.3	8	M6×18	13.7	1.4	0.24
PL 032 X 060 AS-SS	20	18	26	568	58	35.3	3600	174	17.8	93	9.5	10	M6×18	13.7	1.4	0.27
PL 035 X 060 AS-SS	20	18	26	627	64	35.3	3600	160	16.3	93	9.5	10	M6×18	13.7	1.4	0.27
PL 038 X 065 AS-SS	20	18	26	745	76	39.2	4000	157	16.0	95	9.7	11	M6×18	13.7	1.4	0.30
PL 040 X 065 AS-SS	20	18	26	794	81	39.2	4000	149	15.2	95	9.7	11	M6×18	13.7	1.4	0.30
PL 042 X 075 AS-SS	24	21	32	1230	126	58.8	6000	187	19.1	105	10.7	9	M8×22	33.3	3.4	0.51
PL 045 X 075 AS-SS	24	21	32	1330	136	58.8	6000	174	17.8	105	10.7	9	M8×22	33.3	3.4	0.51
PL 048 X 080 AS-SS	24	21	32	1410	144	58.8	6000	164	16.7	98	10.0	9	M8×22	33.3	3.4	0.55
PL 050 X 080 AS-SS	24	21	32	1480	151	58.8	6000	157	16.0	98	10.0	9	M8×22	33.3	3.4	0.55
PL 055 X 085 AS-SS	24	21	32	1990	203	71.5	7300	174	17.8	113	11.5	11	M8×22	33.3	3.4	0.60
PL 060 X 090 AS-SS	24	21	32	2170	221	71.5	7300	160	16.3	107	10.9	11	M8×22	33.3	3.4	0.64
PL 065 X 095 AS-SS	24	21	32	2560	261	78.4	8000	161	16.4	110	11.2	12	M8×22	33.3	3.4	0.69
PL 070 X 110 AS-SS	28	25	38	4020	410	117	11900	185	18.9	119	12.1	11	M10×25	67.6	6.9	1.21
PL 075 X 115 AS-SS	28	25	38	4310	440	117	11900	173	17.7	113	11.5	11	M10×25	67.6	6.9	1.27
PL 080 X 120 AS-SS	28	25	38	4610	470	117	11900	163	16.6	109	11.1	11	M10×25	67.6	6.9	1.33
PL 085 X 125 AS-SS	28	25	38	5390	550	127	13000	167	17.0	114	11.6	12	M10×25	67.6	6.9	1.41
PL 090 X 130 AS-SS	28	25	38	5680	580	127	13000	158	16.1	109	11.1	12	M10×25	67.6	6.9	1.47
PL 095 X 135 AS-SS	28	25	38	6470	660	138	14100	162	16.5	114	11.6	13	M10×25	67.6	6.9	1.54
PL 100 X 145 AS-SS	33	29	45	8400	860	170	17300	162	16.5	113	11.5	11	M12×30	118	12.0	2.09
PL 110 X 155 AS-SS	33	29	45	9300	950	170	17300	148	15.1	105	10.7	11	M12×30	118	12.0	2.25
PL 120 X 165 AS-SS	33	29	45	11100	1130	185	18900	148	15.1	108	11.0	12	M12×30	118	12.0	2.42
PL 130 X 180 AS-SS	38	34	50	15000	1530	231	23600	146	14.9	106	10.8	15	M12×35	118	12.0	3.38
PL 140 X 190 AS-SS	38	34	50	17200	1760	247	25200	144	14.7	107	10.9	16	M12×35	118	12.0	3.59
PL 150 X 200 AS-SS	38	34	50	20900	2130	278	28400	152	15.5	114	11.6	18	M12×35	118	12.0	3.82

Notes) 1. Stocked models are in bold.
2. Mt indicates torque at 0 transmissible thrust, while Pax indicates transmissible thrust at 0 torque. If transmissible torque and thrust apply simultaneously calculate and compare the combined value with the transmissible torque provided in the table.
3. Dimensions when this product is attached to the shaft and hub.

Model Numbers and Specifications

Inch Size Models



* Note) 4

Model No. (Shaft Diameter)	Dimensions mm					Transmissible Torque		Transmissible Thrust		Shaft Contact Pressure		Hub Contact Pressure		Locking Bolts				Mass
	d	D	L	ℓ	Lt	Mt		Pax		P		P'		Quantity	Size	Tightening Torque M_A		
						N·m	{kgf·m}	kN	{kgf}	MPa	{kgf/mm²}	MPa	{kgf/mm²}			N·m	{kgf·m}	kg
PL-3/4AS	19.05	47	20	18	26	294	30	30.4	3100	241	24.6	98	10.0	6	M6 x 18	18.3	1.87	0.21
PL-7/8AS	22.225	47	20	18	26	343	35	30.4	3100	207	21.1	98	10.0	6	M6 x 18	18.3	1.87	0.18
PL 1AS	25.4	50	20	18	26	490	50	38.2	3900	227	23.2	116	11.8	8	M6 x 18	18.3	1.87	0.22
PL 1-1/8AS	28.575	55	20	18	26	558	57	38.2	3900	203	20.7	106	10.8	8	M6 x 18	18.3	1.87	0.25
PL 1-3/16AS	30.163	54.837	20.8	18	26.8	588	60	38.2	3900	192	19.6	106	10.8	8	M6 x 18	18.3	1.87	0.24
PL 1-1/4AS	31.75	60	20	18	26	784	80	49.0	5000	230	23.5	123	12.5	10	M6 x 18	18.3	1.87	0.3
PL 1-3/8AS	34.925	60.075	19.6	18	25.6	862	88	49.0	5000	210	21.4	122	12.4	10	M6 x 18	18.3	1.87	0.27
PL 1-7/16AS	36.513	65	20	18	26	989	101	53.9	5500	221	22.5	123	12.6	11	M6 x 18	18.3	1.87	0.34
PL 1-1/2AS	38.1	65	20	18	26	1029	105	53.9	5500	211	21.5	123	12.6	11	M6 x 18	18.3	1.87	0.32
PL 1-5/8AS	41.275	75	24	21	32	1685	172	81.3	8300	251	25.6	138	14.1	9	M8 x 22	40.2	4.10	0.56
PL 1-3/4AS	44.45	75	24	21	32	1813	185	81.3	8300	233	23.8	138	14.1	9	M8 x 22	40.2	4.10	0.56
PL 1-7/8AS	47.625	80	24	21	32	1950	199	81.3	8300	218	22.2	130	13.3	9	M8 x 22	40.2	4.10	0.59
PL 1-15/16AS	49.213	80	24	21	32	2009	205	81.3	8300	211	21.5	130	13.3	9	M8 x 22	40.2	4.10	0.56
PL 2AS	50.8	85	24	21	32	2538	259	100	10200	250	25.5	149	15.2	11	M8 x 22	40.2	4.10	0.67

Notes) 1. Stocked models are in bold.
2. Mt indicates torque at 0 transmissible thrust, while Pax indicates transmissible thrust at 0 torque. If transmissible torque and thrust apply simultaneously calculate and compare the combined value with the transmissible torque provided in the table.
3. Consult Tsubaki for other available dimensions.
4. Dimensions when this product is attached to the shaft and hub.

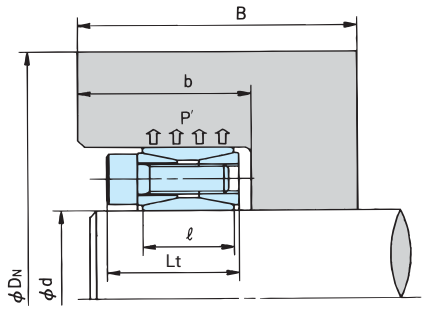
Hub Diameters (1)

Standard AS

Hub Diameters for Single Unit Installation

D_N is the minimum hub diameter required to tolerate P' or the pressure exerted from within the hub.

$$B \geqq 2\ell$$



Hub Configuration Coefficient $K_3 = 0.6$

Hub Configuration Coefficient $K_3 = 0.6$

Minimum hub diameter ϕD_N(mm)

Model No. d X D Shaft Diameter X Outer Diameter	Hub Contact Pressure P' MPa	Hub Contact Pressure P' {kgf/mm²}	Yield Point of Hub Material σ 0.2 206	225	245	274	294	343	392	441	Hub boring depth b (mm)
			21	23	25	28	30	35	40	45	
			FC350 SS400 SC410 S10C FCMB360	SC450 S15C SF440	FCD400 SS490 SC480 S20C SF490	S30C SF540	FCD450 S35C SF590	FCD500 S45C	FCD600 S55C	FCD700	(1 element)
PL019 X 047AS	98	10.0	63	61	60	58	58	56	55	54	28
PL020 X 047AS	98	10.0	63	61	60	58	58	56	55	54	28
PL022 X 047AS	98	10.0	63	61	60	58	58	56	55	54	28
PL024 X 050AS	116	11.8	71	69	67	65	64	61	60	59	28
PL025 X 050AS	116	11.8	71	69	67	65	64	61	60	59	28
PL028 X 055AS	106	10.8	76	74	72	70	68	66	65	64	28
PL030 X 055AS	106	10.8	76	74	72	70	68	66	65	64	28
PL032 X 060AS	123	12.5	87	84	82	79	77	75	73	71	28
PL035 X 060AS	123	12.5	87	84	82	79	77	75	73	71	28
PL038 X 065AS	123	12.6	95	92	89	86	84	81	79	77	28
PL040 X 065AS	123	12.6	95	92	89	86	84	81	79	77	28
PL042 X 075AS	138	14.1	115	110	107	102	100	96	93	91	34
PL045 X 075AS	138	14.1	115	110	107	102	100	96	93	91	34
PL048 X 080AS	130	13.3	119	115	111	107	105	101	98	96	34
PL050 X 080AS	130	13.3	119	115	111	107	105	101	98	96	34
PL055 X 085AS	149	15.2	135	129	125	119	116	111	107	104	34
PL060 X 090AS	141	14.4	139	134	129	124	121	116	112	109	34
PL065 X 095AS	146	14.9	150	143	138	132	129	123	119	116	34
PL070 X 110AS	154	15.7	178	170	163	156	152	145	140	136	40
PL075 X 115AS	147	15.0	182	174	168	161	157	150	145	141	40
PL080 X 120AS	141	14.4	186	178	172	165	161	154	149	146	40
PL085 X 125AS	148	15.1	198	190	183	175	171	163	157	153	40
PL090 X 130AS	142	14.5	202	194	187	179	175	168	162	158	40
PL095 X 135AS	148	15.1	214	205	197	189	184	176	170	166	40
PL100 X 145AS	147	15.0	229	219	211	202	198	189	182	178	47
PL110 X 155AS	137	14.0	237	227	220	211	207	198	192	187	47
PL120 X 165AS	140	14.3	255	244	236	227	221	212	205	200	47
PL130 X 180AS	137	14.0	275	264	255	245	240	230	223	217	52
PL140 X 190AS	139	14.2	292	281	271	260	254	244	236	230	52
PL150 X 200AS	148	15.1	317	304	292	280	273	261	252	245	52
PL160 X 210AS	149	15.2	334	320	308	295	287	274	265	258	52
PL170 X 225AS	136	13.9	342	329	318	306	299	287	278	271	60
PL180 X 235AS	139	14.2	361	347	335	322	315	301	292	285	60
PL190 X 250AS	128	13.1	370	357	346	334	327	314	305	298	68
PL200 X 260AS	129	13.2	386	373	361	348	341	327	318	311	68
PL220 X 285AS	132	13.5	428	412	399	384	376	361	350	342	74
PL240 X 305AS	137	14.0	466	448	433	416	407	390	377	368	74
PL260 X 325AS	148	15.1	515	493	475	455	444	424	409	399	74
PL280 X 355AS	130	13.3	529	510	494	476	466	448	435	425	86
PL300 X 375AS	135	13.8	569	547	529	509	498	477	463	452	86

Notes) 1. The above figures do not take safety rates into account. Consider them prior to operation.
2. Calculate hub diameters using the formula K_3=0.6 as discussed in Selection Procedure.

Hub Diameters (2)

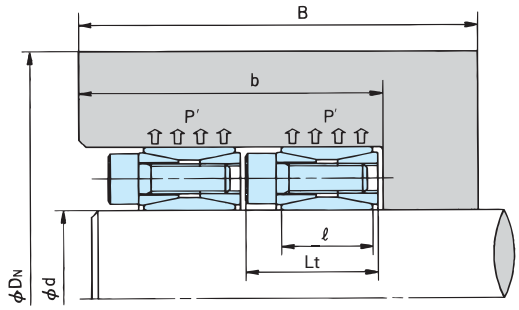
Standard AS

Hub Diameters for Multiple Unit Installation

D_N is the minimum hub diameter required to tolerate P' or the pressure exerted from within the hub.

$B \geqq Z \cdot Lt + Lt$

Z : Number of units (2 ≦ Z ≦ 4)



Hub Configuration Coefficient $K_3 = 0.8$

Hub Configuration Coefficient $K_3 = 0.8$

Minimum hub diameter ϕD_N(mm)

Model No. d X D Shaft Diameter X Outer Diameter	Hub Contact Pressure P' MPa	Hub Contact Pressure P' {kgf/mm²}	Yield Point of Hub Material σ 0.2 206	225	245	274	294	343	392	441	Hub boring depth b (mm)
			21	23	25	28	30	35	40	45	
			FC350 SS400 SC410 S10C FCMB360	SC450 S15C SF440	FCD400 SS490 SC480 S20C SF490	S30C SF540	FCD450 S35C SF590	FCD500 S45C	FCD600 S55C	FCD700	(1 element)
PL019 X 047AS	98	10.0	70	68	65	63	62	59	58	56	54
PL020 X 047AS	98	10.0	70	68	65	63	62	59	58	56	54
PL022 X 047AS	98	10.0	70	68	65	63	62	59	58	56	54
PL024 X 050AS	116	11.8	81	77	74	71	69	66	64	62	54
PL025 X 050AS	116	11.8	81	77	74	71	69	66	64	62	54
PL028 X 055AS	106	10.8	85	82	79	76	74	71	68	67	54
PL030 X 055AS	106	10.8	85	82	79	76	74	71	68	67	54
PL032 X 060AS	123	12.5	101	96	92	87	85	80	77	75	54
PL035 X 060AS	123	12.5	101	96	92	87	85	80	77	75	54
PL038 X 065AS	123	12.6	110	104	100	95	92	87	84	82	54
PL040 X 065AS	123	12.6	110	104	100	95	92	87	84	82	54
PL042 X 075AS	138	14.1	137	128	122	115	111	105	100	97	66
PL045 X 075AS	138	14.1	137	128	122	115	111	105	100	97	66
PL048 X 080AS	130	13.3	140	132	126	119	116	110	105	102	66
PL050 X 080AS	130	13.3	140	132	126	119	116	110	105	102	66
PL055 X 085AS	149	15.2	164	153	145	135	131	122	116	112	66
PL060 X 090AS	141	14.4	167	156	148	139	135	127	121	117	66
PL065 X 095AS	146	14.9	181	169	160	150	145	135	129	125	66
PL070 X 110AS	154	15.7	219	203	191	178	172	160	152	147	78
PL075 X 115AS	147	15.0	220	205	194	182	176	164	157	151	78
PL080 X 120AS	141	14.4	222	208	198	186	180	169	161	156	78
PL085 X 125AS	148	15.1	241	224	212	198	192	179	171	165	78
PL090 X 130AS	142	14.5	242	227	215	202	195	183	175	169	78
PL095 X 135AS	148	15.1	260	242	229	214	207	193	184	178	78
PL100 X 145AS	147	15.0	277	259	245	229	221	207	198	191	92
PL110 X 155AS	137	14.0	281	264	251	237	229	216	207	200	92
PL120 X 165AS	140	14.3	304	285	270	255	247	232	221	214	92
PL130 X 180AS	137	14.0	326	307	292	275	266	251	240	232	102
PL140 X 190AS	139	14.2	348	327	310	292	283	266	254	246	102
PL150 X 200AS	148	15.1	385	359	339	318	306	287	273	263	102
PL160 X 210AS	149	15.2	406	379	357	335	323	302	287	277	102
PL170 X 225AS	136	13.9	405	382	363	343	332	313	299	290	118
PL180 X 235AS	139	14.2	430	404	384	362	350	329	315	304	118
PL190 X 250AS	128	13.1	432	409	391	371	360	340	327	317	134
PL200 X 260AS	129	13.2	452	427	408	387	376	355	341	330	134
PL220 X 285AS	132	13.5	503	475	453	428	415	392	376	364	146
PL240 X 305AS	137	14.0	552	520	494	466	452	425	407	393	146
PL260 X 325AS	148	15.1	625	583	551	516	498	466	444	428	146
PL280 X 355AS	130	13.3	620	586	559	530	514	486	466	452	170
PL300 X 375AS	135	13.8	672	633	603	569	552	520	498	482	170

Notes) 1. The above figures do not take safety rates into account. Consider them prior to operation.
2. Calculate hub diameters using the formula K_3=0.8 as discussed in Selection Procedure.

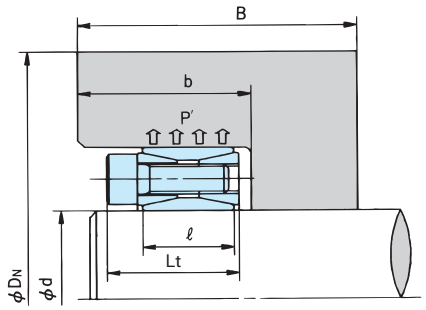
Hub Diameters (3)

Electroless Nickel-Plated AS-KP Models

Hub Diameters for Single Unit Installation

D_N is the minimum hub diameter required to tolerate P' or the pressure exerted from within the hub.

$$B \geqq 2\ell$$



Hub Configuration Coefficient $K_3 = 0.6$

Hub Configuration Coefficient $K_3 = 0.6$

Minimum hub diameter ϕD_N(mm)

Model No. d X D Shaft Diameter X Outer Diameter mm	Hub Contact Pressure P' MPa	Hub Contact Pressure P' {kgf/mm²}	Yield Point of Hub Material σ 0.2 206	225	245	274	294	343	392	441	Hub boring depth b (mm)
			21	23	25	28	30	35	40	45	
			FC350 SS400 SC410 S10C FCMB360	SC450 S15C SF440	FCD400 SS490 SC480 S20C SF490	S30C SF540	FCD450 S35C SF590	FCD500 S45C	FCD600 S55C	FCD700	(1 element)
PL 019 X 047 AS-KP	85	8.7	61	60	59	57	57	55	54	53	28
PL 020 X 047 AS-KP	85	8.7	61	60	59	57	57	55	54	53	28
PL 022 X 047 AS-KP	85	8.7	61	60	59	57	57	55	54	53	28
PL 024 X 050 AS-KP	101	10.3	68	66	65	63	62	60	59	58	28
PL 025 X 050 AS-KP	101	10.3	68	66	65	63	62	60	59	58	28
PL 028 X 055 AS-KP	92	9.4	73	71	70	68	67	65	64	63	28
PL 030 X 055 AS-KP	92	9.4	73	71	70	68	67	65	64	63	28
PL 032 X 060 AS-KP	106	10.8	83	81	79	76	75	73	71	70	28
PL 035 X 060 AS-KP	106	10.8	83	81	79	76	75	73	71	70	28
PL 038 X 065 AS-KP	107	10.9	90	88	85	83	82	79	77	76	28
PL 040 X 065 AS-KP	107	10.9	90	88	85	83	82	79	77	76	28
PL 042 X 075 AS-KP	121	12.3	109	105	102	99	97	93	91	89	34
PL 045 X 075 AS-KP	121	12.3	109	105	102	99	97	93	91	89	34
PL 048 X 080 AS-KP	113	11.5	113	109	107	103	102	98	96	94	34
PL 050 X 080 AS-KP	113	11.5	113	109	107	103	102	98	96	94	34
PL 055 X 085 AS-KP	130	13.3	127	123	119	114	112	108	104	102	34
PL 060 X 090 AS-KP	123	12.5	131	127	123	119	117	112	109	107	34
PL 065 X 095 AS-KP	126	12.9	140	135	131	127	124	119	116	113	34
PL 070 X 110 AS-KP	133	13.6	166	160	155	149	146	140	136	133	40
PL 075 X 115 AS-KP	127	13.0	170	164	159	154	151	145	141	137	40
PL 080 X 120 AS-KP	123	12.5	175	169	164	158	155	150	146	142	40
PL 085 X 125 AS-KP	128	13.1	186	179	174	167	164	158	153	150	40
PL 090 X 130 AS-KP	123	12.6	190	183	178	172	169	162	158	154	40
PL 095 X 135 AS-KP	129	13.2	201	194	188	181	177	170	165	162	40
PL 100 X 145 AS-KP	127	13.0	215	207	201	193	190	182	177	173	47
PL 110 X 155 AS-KP	120	12.2	223	216	210	203	199	192	187	183	47
PL 120 X 165 AS-KP	123	12.5	240	232	225	218	213	206	200	196	47
PL 130 X 180 AS-KP	120	12.2	259	251	244	236	231	223	217	213	52
PL 140 X 190 AS-KP	121	12.3	275	265	258	249	245	236	229	225	52
PL 150 X 200 AS-KP	129	13.2	298	287	278	268	263	252	245	239	52
PL 160 X 210 AS-KP	129	13.2	313	301	292	281	276	265	257	251	52
PL 170 X 225 AS-KP	119	12.1	323	312	304	294	288	278	271	265	60
PL 180 X 235 AS-KP	121	12.3	340	328	319	308	303	292	284	278	60
PL 190 X 250 AS-KP	112	11.4	351	340	331	321	316	305	298	292	68
PL 200 X 260 AS-KP	113	11.5	366	355	346	335	329	318	310	304	68
PL 220 X 285 AS-KP	115	11.7	404	391	381	369	362	350	341	334	74
PL 240 X 305 AS-KP	120	12.2	439	425	413	399	392	378	367	360	74
PL 260 X 325 AS-KP	129	13.2	484	466	452	435	426	410	398	389	74
PL 280 X 355 AS-KP	114	11.6	501	486	473	458	450	435	424	415	86
PL 300 X 375 AS-KP	118	12.0	537	519	505	488	479	462	450	441	86

Notes) 1. The above figures do not take safety rates into account. Consider them prior to operation.
2. Calculate hub diameters using the formula K_3=0.6 as discussed in Selection Procedure.

Hub Diameters (4)

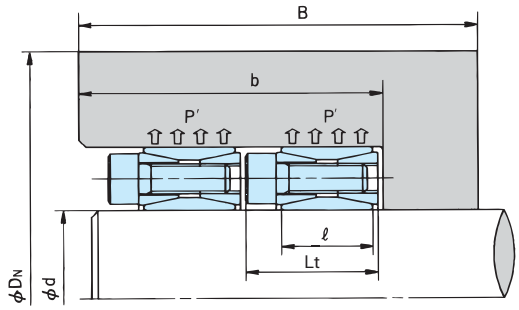
Electroless Nickel-Plated AS-KP Models

Hub Diameters for Multiple Unit Installation

D_N is the minimum hub diameter required to tolerate P' or the pressure exerted from within the hub.

$B \geqq Z \cdot Lt + Lt$

Z : Number of units (2 ≦ Z ≦ 4)



Hub Configuration Coefficient $K_3 = 0.8$

Hub Configuration Coefficient $K_3 = 0.8$

Minimum hub diameter ϕD_N(mm)

Model No. d X D Shaft Diameter X Outer Diameter mm	Hub Contact Pressure P' MPa	Hub Contact Pressure P' {kgf/mm²}	Yield Point of Hub Material σ 0.2 206	225	245	274	294	343	392	441	Hub boring depth b (mm)
	MPa	kgf/mm²	21	23	25	28	30	35	40	45	
			FC350 SS400 SC410 S10C FCMB360	SC450 S15C SF440	FCD400 SS490 SC480 S20C SF490	S30C SF540	FCD450 S35C SF590	FCD500 S45C	FCD600 S55C	FCD700	(2 elements)
PL 019 X 047 AS-KP	85	8.7	67	65	63	61	60	58	57	55	54
PL 020 X 047 AS-KP	85	8.7	67	65	63	61	60	58	57	55	54
PL 022 X 047 AS-KP	85	8.7	67	65	63	61	60	58	57	55	54
PL 024 X 050 AS-KP	101	10.3	76	73	71	68	67	64	62	61	54
PL 025 X 050 AS-KP	101	10.3	76	73	71	68	67	64	62	61	54
PL 028 X 055 AS-KP	92	9.4	80	78	76	73	72	69	67	66	54
PL 030 X 055 AS-KP	92	9.4	80	78	76	73	72	69	67	66	54
PL 032 X 060 AS-KP	106	10.8	93	90	86	83	81	78	75	73	54
PL 035 X 060 AS-KP	106	10.8	93	90	86	83	81	78	75	73	54
PL 038 X 065 AS-KP	107	10.9	102	97	94	90	88	84	82	80	54
PL 040 X 065 AS-KP	107	10.9	102	97	94	90	88	84	82	80	54
PL 042 X 075 AS-KP	121	12.3	125	119	114	109	106	101	97	94	66
PL 045 X 075 AS-KP	121	12.3	125	119	114	109	106	101	97	94	66
PL 048 X 080 AS-KP	113	11.5	128	123	118	113	110	105	102	99	66
PL 050 X 080 AS-KP	113	11.5	128	123	118	113	110	105	102	99	66
PL 055 X 085 AS-KP	130	13.3	149	141	134	127	124	117	112	109	66
PL 060 X 090 AS-KP	123	12.5	152	144	138	131	128	121	117	113	66
PL 065 X 095 AS-KP	126	12.9	163	154	148	140	136	129	124	120	66
PL 070 X 110 AS-KP	133	13.6	196	184	176	166	161	152	146	141	78
PL 075 X 115 AS-KP	127	13.0	198	188	180	170	166	157	151	146	78
PL 080 X 120 AS-KP	123	12.5	202	192	184	175	170	161	155	151	78
PL 085 X 125 AS-KP	128	13.1	217	205	196	186	180	171	164	159	78
PL 090 X 130 AS-KP	123	12.6	220	208	200	190	185	175	169	164	78
PL 095 X 135 AS-KP	129	13.2	235	222	212	201	195	185	177	172	78
PL 100 X 145 AS-KP	127	13.0	250	237	226	215	209	197	190	184	92
PL 110 X 155 AS-KP	120	12.2	257	244	235	223	218	207	199	194	92
PL 120 X 165 AS-KP	123	12.5	277	263	252	240	234	222	213	207	92
PL 130 X 180 AS-KP	120	12.2	298	284	272	259	253	240	231	225	102
PL 140 X 190 AS-KP	121	12.3	316	301	288	275	268	254	245	238	102
PL 150 X 200 AS-KP	129	13.2	348	329	314	298	289	274	263	254	102
PL 160 X 210 AS-KP	129	13.2	366	345	330	313	304	287	276	267	102
PL 170 X 225 AS-KP	119	12.1	371	353	339	323	315	299	288	280	118
PL 180 X 235 AS-KP	121	12.3	391	372	357	340	331	314	303	294	118
PL 190 X 250 AS-KP	112	11.4	399	381	367	351	343	327	316	307	134
PL 200 X 260 AS-KP	113	11.5	416	398	383	366	357	341	329	320	134
PL 220 X 285 AS-KP	115	11.7	461	439	423	404	394	375	362	352	146
PL 240 X 305 AS-KP	120	12.2	505	480	461	439	428	407	392	281	146
PL 260 X 325 AS-KP	129	13.2	566	534	510	484	470	444	426	413	146
PL 280 X 355 AS-KP	114	11.6	571	545	525	501	489	466	450	438	170
PL 300 X 375 AS-KP	118	12.0	615	585	563	537	523	497	479	466	170

Notes) 1. The above figures do not take safety rates into account. Consider them prior to operation.
2. Calculate hub diameters using the formula K_3=0.8 as discussed in Selection Procedure.

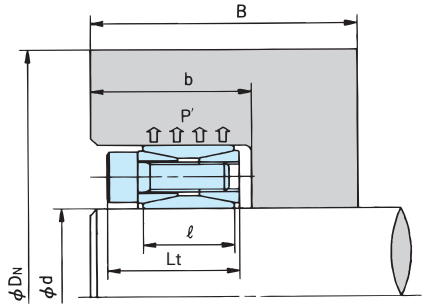
Hub Diameters (5)

Stainless Steel AS-SS Models

Hub Diameters for Single Unit Installation

D_N is the minimum hub diameter required to tolerate P' or the pressure exerted from within the hub.

$$B \geqq 2\ell$$



Hub Configuration Coefficient $K_3 = 0.6$

Hub Configuration Coefficient $K_3 = 0.6$

Minimum hub diameter ϕD_N(mm)

Model No. d X D Shaft Diameter X Outer Diameter mm	Hub Contact Pressure P' MPa	{kgf/mm²}	Yield Point of Hub Material σ 0.2 MPa {kgf/mm²} 176 {18}	206 {21}	225 {23}	245 {25}	274 {28}	294 {30}	343 {35}	392 {40}	441 {45}	Hub boring depth b (mm) (1 element)
			FC300 SS330 SC360 SUS405	FC350 SS400 SC410 S10C SUS304	SC450 S15C SF440	FCD400 SS490 SC480 S20C SF490	S30C SF540	FCD450 S35C SF590	FCD500 S45C	FCD600 S55C	FCD700	
PL 019 X 047 AS-SS	72	7.3	61	59	57	57	56	55	54	53	52	28
PL 020 X 047 AS-SS	72	7.3	61	59	57	57	56	55	54	53	52	28
PL 022 X 047 AS-SS	72	7.3	61	59	57	57	56	55	54	53	52	28
PL 024 X 050 AS-SS	89	9.1	69	66	64	63	61	61	59	58	57	28
PL 025 X 050 AS-SS	89	9.1	69	66	64	63	61	61	59	58	57	28
PL 028 X 055 AS-SS	81	8.3	74	71	69	68	66	66	64	63	62	28
PL 030 X 055 AS-SS	81	8.3	74	71	69	68	66	66	64	63	62	28
PL 032 X 060 AS-SS	93	9.5	84	80	78	76	74	73	71	70	69	28
PL 035 X 060 AS-SS	93	9.5	84	80	78	76	74	73	71	70	69	28
PL 038 X 065 AS-SS	95	9.7	91	87	85	83	81	80	77	76	75	28
PL 040 X 065 AS-SS	95	9.7	91	87	85	83	81	80	77	76	75	28
PL 042 X 075 AS-SS	105	10.7	109	103	100	98	95	94	91	89	87	34
PL 045 X 075 AS-SS	105	10.7	109	103	100	98	95	94	91	89	87	34
PL 048 X 080 AS-SS	98	10.0	114	108	105	103	100	98	96	94	92	34
PL 050 X 080 AS-SS	98	10.0	114	108	105	103	100	98	96	94	92	34
PL 055 X 085 AS-SS	113	11.5	128	120	116	113	110	108	104	102	100	34
PL 060 X 090 AS-SS	107	10.9	132	125	121	118	115	113	109	107	105	34
PL 065 X 095 AS-SS	110	11.2	141	133	129	126	122	120	116	113	111	34
PL 070 X 110 AS-SS	119	12.1	169	158	153	149	144	141	136	133	130	40
PL 075 X 115 AS-SS	113	11.5	173	162	157	153	148	146	141	137	135	40
PL 080 X 120 AS-SS	109	11.1	177	167	162	158	153	151	146	142	140	40
PL 085 X 125 AS-SS	114	11.6	188	177	171	167	162	159	153	150	147	40
PL 090 X 130 AS-SS	109	11.1	192	181	176	171	166	163	158	154	151	40
PL 095 X 135 AS-SS	114	11.6	203	191	185	180	175	171	166	161	158	40
PL 100 X 145 AS-SS	113	11.5	218	204	198	193	187	184	178	173	170	47
PL 110 X 155 AS-SS	105	10.7	226	213	207	202	196	193	187	183	179	47
PL 120 X 165 AS-SS	108	11.0	243	229	222	217	210	207	200	195	192	47
PL 130 X 180 AS-SS	106	10.8	263	248	241	235	228	225	218	212	209	52
PL 140 X 190 AS-SS	107	10.9	279	263	255	249	242	238	230	225	220	52
PL 150 X 200 AS-SS	114	11.6	301	283	274	267	258	254	245	239	234	52

Notes) 1. The above figures do not take safety rates into account. Consider them prior to operation.
2. Calculate hub diameters using the formula K_3=0.6 as discussed in Selection Procedure.

Hub Diameters (6)

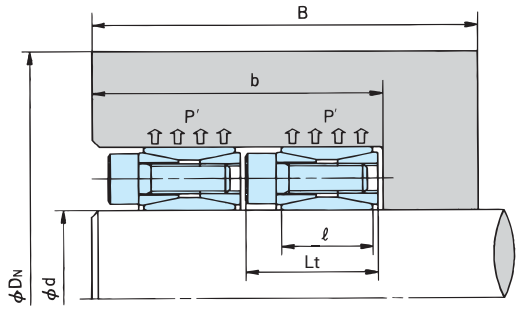
Stainless Steel AS-SS Models

Hub Diameters for Multiple Unit Installation

D_N is the minimum hub diameter required to tolerate P' or the pressure exerted from within the hub.

$B \geqq Z \cdot Lt + Lt$

Z : Number of units (2 ≦ Z ≦ 4)



Hub Configuration Coefficient $K_3 = 0.8$

Hub Configuration Coefficient $K_3 = 0.8$

Minimum hub diameter ϕD_N(mm)

Model No. d X D Shaft Diameter X Outer Diameter mm	Hub Contact Pressure P' MPa	Hub Contact Pressure P' {kgf/mm²}	Yield Point of Hub Material σ 0.2 MPa 176	206	225	245	274	294	343	392	441	Hub boring depth b (mm) (2 elements)
			kgf/mm² 18	21	23	25	28	30	35	40	45	
			FC300 SS330 SC360 SUS405	FC350 SS400 SC410 S10C SUS304	SC450 S15C SF440	FCD400 SS490 SC480 S20C SF490	S30C SF540	FCD450 S35C SF590	FCD500 S45C	FCD600 S55C	FCD700	
PL 019 X 047 AS-SS	72	7.3	66	63	61	60	59	58	56	55	54	54
PL 020 X 047 AS-SS	72	7.3	66	63	61	60	59	58	56	55	54	54
PL 022 X 047 AS-SS	72	7.3	66	63	61	60	59	58	56	55	54	54
PL 024 X 050 AS-SS	89	9.1	77	72	70	68	66	65	62	61	59	54
PL 025 X 050 AS-SS	89	9.1	77	72	70	68	66	65	62	61	59	54
PL 028 X 055 AS-SS	81	8.3	82	77	75	73	71	69	67	66	64	54
PL 030 X 055 AS-SS	81	8.3	82	77	75	73	71	69	67	66	64	54
PL 032 X 060 AS-SS	93	9.5	95	88	85	83	80	78	75	73	72	54
PL 035 X 060 AS-SS	93	9.5	95	88	85	83	80	78	75	73	72	54
PL 038 X 065 AS-SS	95	9.7	104	96	93	90	87	85	82	80	78	54
PL 040 X 065 AS-SS	95	9.7	104	96	93	90	87	85	82	80	78	54
PL 042 X 075 AS-SS	105	10.7	126	116	111	108	103	101	97	94	91	66
PL 045 X 075 AS-SS	105	10.7	126	116	111	108	103	101	97	94	91	66
PL 048 X 080 AS-SS	98	10.0	129	120	116	112	108	106	101	98	96	66
PL 050 X 080 AS-SS	98	10.0	129	120	116	112	108	106	101	98	96	66
PL 055 X 085 AS-SS	113	11.5	150	136	130	126	120	117	112	108	105	66
PL 060 X 090 AS-SS	107	10.9	153	141	135	130	125	122	117	113	110	66
PL 065 X 095 AS-SS	110	11.2	165	150	144	139	133	130	124	120	117	66
PL 070 X 110 AS-SS	119	12.1	201	182	173	166	158	154	147	141	137	78
PL 075 X 115 AS-SS	113	11.5	203	184	176	170	162	158	151	146	142	78
PL 080 X 120 AS-SS	109	11.1	207	189	181	174	167	163	156	151	147	78
PL 085 X 125 AS-SS	114	11.6	222	201	192	185	177	173	165	159	155	78
PL 090 X 130 AS-SS	109	11.1	224	205	196	189	181	177	169	163	159	78
PL 095 X 135 AS-SS	114	11.6	239	217	208	200	191	186	178	171	167	78
PL 100 X 145 AS-SS	113	11.5	255	232	222	214	204	200	190	184	179	92
PL 110 X 155 AS-SS	105	10.7	260	239	230	222	213	208	199	193	188	92
PL 120 X 165 AS-SS	108	11.0	282	258	247	239	229	224	214	207	202	92
PL 130 X 180 AS-SS	106	10.8	304	279	268	259	248	243	232	225	219	102
PL 140 X 190 AS-SS	107	10.9	323	296	284	274	263	257	246	238	232	102
PL 150 X 200 AS-SS	114	11.6	354	322	307	296	283	276	263	254	247	102

Notes) 1. The above figures do not take safety rates into account. Consider them prior to operation.
2. Calculate hub diameters using the formula K_3=0.8 as discussed in Selection Procedure.

Innovation in Motion

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