

U.S. TSUBAKI POWER-LOCK®

SELF CENTERING SERIES

AE Inch Series

Installing to hubs with a guide portion

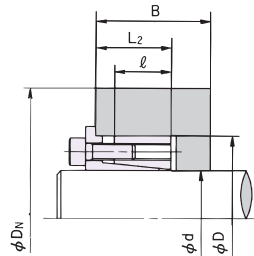
when $L_2 < B < 2\ell$
(See Installation Example B)

Installing to hubs without a guide portion

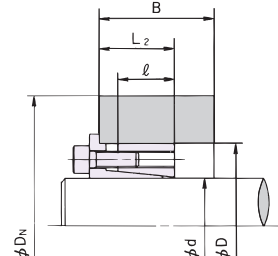
(See Installation Example C)

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

<EXAMPLE> Hub Material Yield Point = 35500 psi
PL2AE = 5.862" min. hub diameter



Installation Example B
When installing to hubs with a guide portion, the hub configuration coefficient is as follows: $K_3 = 1.0$



Installation Example C
When installing to hubs without a guide portion, the hub configuration coefficient is as follows: $K_3 = 1.0$

Min. Hub Dia. (D_N in inches)

Model Number	Hub Contact Pressure P' (psi)	Yield Point and Material examples										
		147 Mpa	176 Mpa	206 Mpa	225 Mpa	245 Mpa	274 Mpa	294 Mpa	343 Mpa	392 Mpa	441 Mpa	
		21300 psi	25500 psi	29900 psi	32600 psi	35500 psi	39700 psi	42600 psi	49700 psi	56900 psi	64000 psi	
				1010 304SS 316SS	1015 1118	1020	1030	1035 1040 1144	1045	1055		
PL3/4	AE	13503	3.905	3.334	3.012	2.874	2.761	2.636	2.569	2.444	2.357	2.293
PL7/8	AE	13503	3.905	3.334	3.012	2.874	2.761	2.636	2.569	2.444	2.357	2.293
PL1	AE	14783	4.626	3.813	3.386	3.208	3.065	2.910	2.826	2.674	2.569	2.491
PL1-1/8	AE	15351	5.367	4.340	3.821	3.608	3.438	3.254	3.157	2.979	2.856	2.766
PL1-3/16	AE	15351	5.367	4.340	3.821	3.608	3.438	3.254	3.157	2.979	2.856	2.766
PL1-1/4	AE	16346	6.500	5.045	4.366	4.096	3.884	3.658	3.538	3.323	3.175	3.068
PL1-3/8	AE	16346	6.500	5.045	4.366	4.096	3.884	3.658	3.538	3.323	3.175	3.068
PL1-7/16	AE	15067	6.173	5.041	4.458	4.217	4.024	3.814	3.702	3.498	3.357	3.253
PL1-1/2	AE	15067	6.173	5.041	4.458	4.217	4.024	3.814	3.702	3.498	3.357	3.253
PL1-5/8	AE	18905	12.047	7.648	6.226	5.721	5.342	4.954	4.755	4.405	4.172	4.004
PL1-11/16	AE	18905	12.047	7.648	6.226	5.721	5.342	4.954	4.755	4.405	4.172	4.004
PL1-3/4	AE	18905	12.047	7.648	6.226	5.721	5.342	4.954	4.755	4.405	4.172	4.004
PL1-7/8	AE	19615	15.430	8.703	6.917	6.310	5.862	5.409	5.179	4.779	4.513	4.324
PL1-15/16	AE	19615	15.430	8.703	6.917	6.310	5.862	5.409	5.179	4.779	4.513	4.324
PL2	AE	19615	15.430	8.703	6.917	6.310	5.862	5.409	5.179	4.779	4.513	4.324
PL2-1/8	AE	18478	12.521	8.361	6.892	6.359	5.955	5.537	5.322	4.943	4.689	4.505
PL2-3/16	AE	18478	12.521	8.361	6.892	6.359	5.955	5.537	5.322	4.943	4.689	4.505
PL2-1/4	AE	17483	11.267	8.193	6.926	6.444	6.072	5.681	5.478	5.115	4.869	4.690
PL2-3/8	AE	17483	11.267	8.193	6.926	6.444	6.072	5.681	5.478	5.115	4.869	4.690
PL2-7/16	AE	19900	20.141	10.626	8.354	7.597	7.042	6.484	6.202	5.713	5.390	5.160
PL2-1/2	AE	19900	20.141	10.626	8.354	7.597	7.042	6.484	6.202	5.713	5.390	5.160
PL2-9/16	AE	19900	20.141	10.626	8.354	7.597	7.042	6.484	6.202	5.713	5.390	5.160
PL2-5/8	AE	19047	18.246	11.358	9.204	8.446	7.879	7.299	7.002	6.483	6.136	5.887
PL2-11/16	AE	19047	18.246	11.358	9.204	8.446	7.879	7.299	7.002	6.483	6.136	5.887
PL2-3/4	AE	18194	16.094	11.055	9.183	8.494	7.969	7.424	7.142	6.644	6.308	6.066
PL2-7/8	AE	18194	16.094	11.055	9.183	8.494	7.969	7.424	7.142	6.644	6.308	6.066
PL2-15/16	AE	20895	47.007	14.955	11.231	10.088	9.275	8.474	8.075	7.392	6.947	6.632
PL3	AE	20184	29.732	14.394	11.183	10.136	9.376	8.614	8.231	7.569	7.133	6.823
PL3-3/8	AE	20184	29.732	14.394	11.183	10.136	9.376	8.614	8.231	7.569	7.133	6.823
PL3-7/16	AE	19331	23.133	13.771	11.055	10.116	9.418	8.707	8.345	7.713	7.293	6.992
PL3-1/2	AE	19331	23.133	13.771	11.055	10.116	9.418	8.707	8.345	7.713	7.293	6.992
PL3-3/4	AE	21747	na	18.797	13.393	11.879	10.833	9.825	9.330	8.493	7.953	7.573
PL3-15/16	AE	17910	na	13.632	11.407	10.577	9.941	9.277	8.932	8.322	7.910	7.612
PL4	AE	17910	na	13.632	11.407	10.577	9.941	9.277	8.932	8.322	7.910	7.612