

U.S. TSUBAKI POWER-LOCK®

SELF CENTERING SERIES

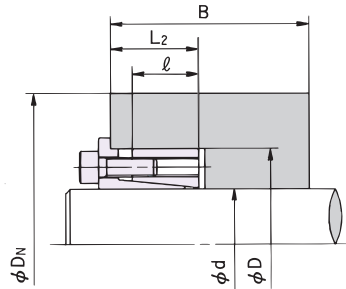
AE Metric Series

Installing to hubs with a guide portion

when $B \geq 2l$
(See Installation Example A)

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
PL030X055AE = 3.107" min. hub diameter



Installation Example A
When installing to hubs with a guide portion, the hub configuration coefficient is as follows: $K_3=0.8$

Min. Hub Dia. (D_N in inches)

Model Number	Hub Contact Pressure P' (psi)	Yield Point and Material examples									
		147 Mpa 21300 psi	176 Mpa 25500 psi	206 Mpa 29900 psi	225 Mpa 32600 psi	245 Mpa 35500 psi	274 Mpa 39700 psi	294 Mpa 42600 psi	343 Mpa 49700 psi	392 Mpa 56900 psi	441 Mpa 64000 psi
				1010 304SS 316SS	1015 1118	1020	1030	1035 1040 1144	4140 1045	1055	
PL019X047 AE	13490	3.231	2.905	2.701	2.609	2.532	2.445	2.397	2.307	2.242	2.194
PL020X047 AE	13490	3.231	2.905	2.701	2.609	2.532	2.445	2.397	2.307	2.242	2.194
PL022X047 AE	13490	3.231	2.905	2.701	2.609	2.532	2.445	2.397	2.307	2.242	2.194
PL024X050 AE	14800	3.680	3.252	2.993	2.878	2.783	2.676	2.618	2.509	2.432	2.374
PL025X050 AE	14800	3.680	3.252	2.993	2.878	2.783	2.676	2.618	2.509	2.432	2.374
PL028X055 AE	15380	4.180	3.662	3.354	3.219	3.107	2.982	2.914	2.787	2.698	2.631
PL030X055 AE	15380	4.180	3.662	3.354	3.219	3.107	2.982	2.914	2.787	2.698	2.631
PL032X060 AE	16400	4.838	4.167	3.782	3.616	3.479	3.328	3.246	3.094	2.987	2.908
PL035X060 AE	16400	4.838	4.167	3.782	3.616	3.479	3.328	3.246	3.094	2.987	2.908
PL038X065 AE	15090	4.861	4.277	3.927	3.773	3.645	3.501	3.423	3.278	3.175	3.097
PL040X065 AE	15090	4.861	4.277	3.927	3.773	3.645	3.501	3.423	3.278	3.175	3.097
PL042X075 AE	18860	7.134	5.823	5.148	4.869	4.645	4.403	4.274	4.038	3.875	3.755
PL045X075 AE	18860	7.134	5.823	5.148	4.869	4.645	4.403	4.274	4.038	3.875	3.755
PL048X080 AE	19730	8.150	6.484	5.668	5.338	5.076	4.794	4.645	4.375	4.188	4.052
PL050X080 AE	19730	8.150	6.484	5.668	5.338	5.076	4.794	4.645	4.375	4.188	4.052
PL055X085 AE	18570	7.913	6.509	5.774	5.469	5.223	4.956	4.813	4.553	4.372	4.239
PL060X090 AE	17700	7.884	6.619	5.930	5.638	5.402	5.143	5.003	4.748	4.569	4.438
PL065X095 AE	19880	9.797	7.757	6.767	6.369	6.053	5.713	5.533	5.208	4.985	4.821
PL070X110 AE	19150	10.697	8.661	7.629	7.206	6.868	6.502	6.307	5.953	5.708	5.529
PL075X115 AE	18280	10.486	8.686	7.732	7.333	7.011	6.660	6.472	6.129	5.890	5.714
PL080X120 AE	21040	13.761	10.422	8.936	8.356	7.903	7.423	7.170	6.718	6.410	6.185
PL085X125 AE	20170	13.216	10.361	9.002	8.459	8.030	7.570	7.327	6.889	6.588	6.368
PL090X130 AE	19440	12.935	10.384	9.113	8.595	8.182	7.737	7.501	7.072	6.776	6.559
PL095X135 AE	21910	16.992	12.324	10.409	9.682	9.121	8.532	8.225	7.679	7.309	7.040
PL100X145 AE	17850	12.828	10.735	9.602	9.124	8.737	8.313	8.086	7.669	7.378	7.163
PL110X155 AE	16830	12.836	10.969	9.914	9.461	9.091	8.682	8.461	8.054	7.768	7.556
PL120X165 AE	18860	15.695	12.810	11.325	10.712	10.220	9.687	9.402	8.884	8.525	8.261
PL130X180 AE	18720	16.937	13.878	12.290	11.633	11.105	10.531	10.225	9.667	9.280	8.995
PL140X190 AE	17850	16.809	14.066	12.582	11.956	11.449	10.893	10.595	10.049	9.668	9.386
PL150X200 AE	20310	21.420	16.703	14.483	13.598	12.900	12.154	11.760	11.051	10.564	10.208