

U.S. TSUBAKI POWER-LOCK®

FLUSH-MOUNT SELF-CENTERING STYLE

FL Metric Series

Installing to hubs with a guide portion

when $L2 < B < 2l$

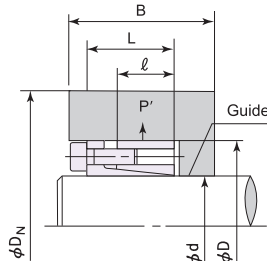
(See Installation Example B)

Installing to hubs without a guide portion

(See Installation Example C)

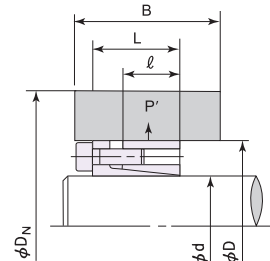
D_N is the minimum hub diameter required to tolerate P' or the pressure exerted from within the hub.

<EXAMPLE> Hub Material Yield Point = 35500 psi
 PL030X055FL = 3.730" min. hub diameter



Hub with Guide

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



Hub with Guide

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
PL019X047 FL	13747	3.992	3.385	3.047	2.903	2.786	2.657	2.587	2.459	2.369	2.303
PL020X047 FL	13747	3.992	3.385	3.047	2.903	2.786	2.657	2.587	2.459	2.369	2.303
PL022X047 FL	13747	3.992	3.385	3.047	2.903	2.786	2.657	2.587	2.459	2.369	2.303
PL024X050 FL	16153	5.270	4.136	3.596	3.380	3.209	3.025	2.928	2.754	2.634	2.546
PL025X050 FL	16153	5.270	4.136	3.596	3.380	3.209	3.025	2.928	2.754	2.634	2.546
PL028X055 FL	17621	6.952	5.032	4.247	3.950	3.720	3.479	3.354	3.130	2.979	2.870
PL030X055 FL	17621	6.952	5.032	4.247	3.950	3.720	3.479	3.354	3.130	2.979	2.870
PL032X060 FL	17466	7.428	5.431	4.599	4.282	4.037	3.778	3.644	3.404	3.241	3.123
PL035X060 FL	17466	7.428	5.431	4.599	4.282	4.037	3.778	3.644	3.404	3.241	3.123
PL038X065 FL	20729	21.790	7.956	6.023	5.421	4.991	4.566	4.353	3.989	3.751	3.582
PL040X065 FL	20729	21.790	7.956	6.023	5.421	4.991	4.566	4.353	3.989	3.751	3.582
PL042X075 FL	19304	13.205	7.915	6.363	5.825	5.425	5.017	4.809	4.446	4.204	4.031
PL045X075 FL	19304	13.205	7.915	6.363	5.825	5.425	5.017	4.809	4.446	4.204	4.031
PL048X080 FL	21114	na	10.319	7.629	6.825	6.259	5.705	5.431	4.962	4.658	4.443
PL050X080 FL	21114	na	10.319	7.629	6.825	6.259	5.705	5.431	4.962	4.658	4.443
PL055X085 FL	19872	na	9.480	7.461	6.787	6.294	5.796	5.545	5.108	4.820	4.614
PL060X090 FL	21449	na	12.053	8.754	7.799	7.132	6.485	6.165	5.623	5.271	5.024
PL065X095 FL	22860	na	16.111	10.300	8.942	8.050	7.218	6.819	6.155	5.734	5.441
PL070X110 FL	20463	na	13.033	10.006	9.040	8.343	7.650	7.302	6.704	6.311	6.032
PL075X115 FL	22370	na	17.535	11.913	10.461	9.480	8.551	8.099	7.342	6.858	6.519
PL080X120 FL	21437	na	16.071	11.672	10.398	9.510	8.646	8.220	7.497	7.028	6.698
PL085X125 FL	23152	na	22.552	13.882	11.977	10.742	9.602	9.058	8.159	7.591	7.197
PL090X130 FL	22262	na	19.357	13.320	11.727	10.645	9.615	9.113	8.269	7.729	7.350
PL095X135 FL	21437	na	18.080	13.131	11.698	10.698	9.727	9.248	8.434	7.907	7.536
PL100X145 FL	21916	na	20.646	14.544	12.868	11.717	10.611	10.070	9.157	8.569	8.156