

U.S. TSUBAKI POWER-LOCK®

DOUBLE TORQUE SERIES

AD Inch Series

Installing to hubs with a guide portion

when $L_t < B < 2\ell$

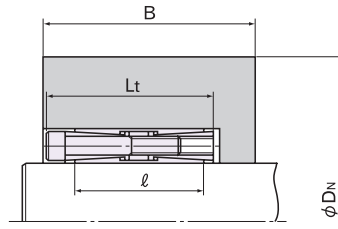
(See Installation Example B)

Installing to hubs without a guide portion

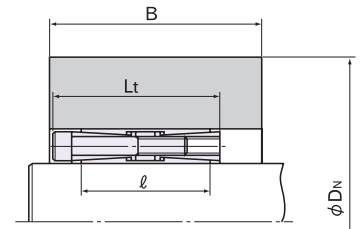
(See Installation Example C)

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
 PL2AD = 5.038" 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	
PL3/4	AD	13924	4.038	3.411	3.065	2.918	2.799	2.667	2.596	2.466	2.375	2.308
PL7/8	AD	13924	4.038	3.411	3.065	2.918	2.799	2.667	2.596	2.466	2.375	2.308
PL1	AD	14939	4.693	3.849	3.410	3.229	3.082	2.924	2.839	2.684	2.577	2.498
PL1-1/8	AD	13489	4.564	3.898	3.522	3.360	3.228	3.083	3.004	2.859	2.757	2.682
PL1-3/16	AD	13489	4.552	3.887	3.512	3.351	3.220	3.074	2.996	2.851	2.750	2.674
PL1-1/4	AD	14649	5.484	4.539	4.039	3.830	3.661	3.478	3.379	3.199	3.074	2.982
PL1-3/8	AD	14649	5.491	4.545	4.044	3.835	3.666	3.482	3.383	3.203	3.078	2.986
PL1-7/16	AD	12764	5.107	4.432	4.039	3.868	3.727	3.570	3.485	3.327	3.216	3.133
PL1-1/2	AD	12764	5.107	4.432	4.039	3.868	3.727	3.570	3.485	3.327	3.216	3.133
PL1-5/8	AD	15664	7.551	6.035	5.286	4.982	4.740	4.480	4.341	4.091	3.918	3.792
PL1-11/16	AD	15664	7.551	6.035	5.286	4.982	4.740	4.480	4.341	4.091	3.918	3.792
PL1-3/4	AD	15664	7.550	6.034	5.285	4.981	4.740	4.479	4.341	4.091	3.918	3.791
PL1-7/8	AD	14649	7.313	6.053	5.386	5.107	4.882	4.637	4.506	4.266	4.010	3.977
PL1-15/16	AD	14649	7.313	6.053	5.386	5.107	4.882	4.637	4.506	4.266	4.010	3.977
PL2	AD	13779	7.219	6.121	5.511	5.250	5.038	4.805	4.679	4.447	4.285	4.165
PL2-1/8	AD	13779	7.219	6.121	5.511	5.250	5.038	4.805	4.679	4.447	4.285	4.165
PL2-3/16	AD	15954	9.338	7.376	6.429	6.048	5.746	5.422	5.250	4.941	4.728	4.572
PL2-1/4	AD	15954	9.338	7.376	6.429	6.048	5.746	5.422	5.250	4.941	4.728	4.572
PL2-3/8	AD	15954	9.306	7.350	6.406	6.027	5.726	5.403	5.232	4.923	4.711	4.556
PL2-7/16	AD	12909	7.545	6.528	5.939	5.683	5.473	5.239	5.112	4.878	4.712	4.589
PL2-1/2	AD	12909	7.545	6.528	5.939	5.683	5.473	5.239	5.112	4.878	4.712	4.589
PL2-9/16	AD	12909	7.538	6.522	5.934	5.678	5.468	5.235	5.108	4.874	4.708	4.586
PL2-5/8	AD	16535	12.197	9.380	8.089	7.579	7.180	6.754	6.530	6.127	5.851	5.650
PL2-11/16	AD	16535	12.197	9.380	8.089	7.579	7.180	6.754	6.530	6.127	5.851	5.650
PL2-3/4	AD	16535	12.197	9.380	8.089	7.579	7.180	6.754	6.530	6.127	5.851	5.650
PL2-7/8	AD	15809	11.751	9.338	8.159	7.683	7.305	6.898	6.682	6.293	6.024	5.827
PL2-15/16	AD	15809	11.751	9.338	8.159	7.683	7.305	6.898	6.682	6.293	6.024	5.827
PL3	AD	16535	13.287	10.218	8.811	8.256	7.821	7.357	7.113	6.674	6.374	6.155
PL3-3/8	AD	15809	12.773	10.150	8.868	8.351	7.940	7.498	7.263	6.840	6.548	6.334
PL3-7/16	AD	16535	14.394	11.069	9.545	8.944	8.473	7.970	7.706	7.230	6.905	6.668
PL3-1/2	AD	16535	14.394	11.069	9.545	8.944	8.473	7.970	7.706	7.230	6.905	6.668
PL3-3/4	AD	15954	13.981	11.043	9.625	9.054	8.603	8.118	7.861	7.397	7.078	6.845
PL3-15/16	AD	15664	14.596	11.665	10.217	9.630	9.162	8.659	8.392	7.907	7.574	7.329
PL4	AD	15302	14.414	11.676	10.287	9.717	9.262	8.769	8.506	8.030	7.700	7.457
PL4-7/16	AD	17260	20.022	14.778	12.555	11.702	11.041	10.344	9.979	9.329	8.887	8.567
PL4-1/2	AD	17260	20.022	14.778	12.555	11.702	11.041	10.344	9.979	9.329	8.887	8.567
PL4-15/16	AD	16099	18.971	14.891	12.945	12.166	11.551	10.891	10.542	9.913	9.481	9.165
PL5	AD	16099	18.971	14.891	12.945	12.166	11.551	10.891	10.542	9.913	9.481	9.165
PL5-1/2	AD	17550	24.054	17.410	14.695	13.665	12.871	12.038	11.604	10.831	10.308	9.929
PL6	AD	17840	27.731	19.637	16.461	15.271	14.359	13.406	12.911	12.033	11.440	11.011
PL6-1/2	AD	15954	23.346	18.440	16.072	15.119	14.365	13.555	13.126	12.352	11.819	11.429
PL7	AD	16390	25.585	19.816	17.135	16.073	15.237	14.344	13.874	13.027	12.447	12.024
PL7-1/2	AD	16390	27.164	21.039	18.193	17.064	16.177	15.230	14.730	13.831	13.216	12.766
PL7-7/8	AD	15664	26.171	20.917	18.321	17.267	16.429	15.526	15.047	14.179	13.580	13.142
PL8	AD	14664	24.422	20.204	17.973	17.041	16.290	15.472	15.033	14.233	13.676	13.265
PL8-1/2	AD	17115	33.918	25.262	21.530	20.089	18.970	17.787	17.167	16.061	15.308	14.761
PL9	AD	16457	32.520	25.105	21.682	20.327	19.263	18.129	17.531	16.456	15.719	15.182
PL9-1/2	AD	15800	31.516	25.052	21.893	20.616	19.602	18.512	17.934	16.889	16.168	15.641
PL10	AD	13199	26.378	22.678	20.563	19.649	18.900	18.071	17.621	16.792	16.208	15.775
PL10-1/2	AD	13739	28.641	24.308	21.896	20.865	20.026	19.101	18.602	17.685	17.043	16.567
PL11	AD	17115	42.321	31.520	26.863	25.066	23.669	22.193	21.420	20.040	19.100	18.418
PL11-13/16	AD	17840	49.513	35.062	29.390	27.267	25.638	23.936	23.052	21.485	20.425	19.659

D - PT COMPONENTS