

U.S. TSUBAKI POWER-LOCK®

MOST POPULAR STYLE

AS Inch Series

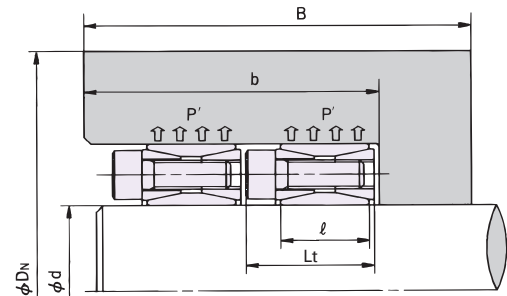
Hub Diameters for Multiple Unit Installation

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

$$B \geq Z \times (2 \times L_t)$$

Z : Number of units ($2 \leq Z \leq 4$)

<EXAMPLE> Hub Material Yield Point = 35500 psi
 PL2AS = 5.272" min. hub diameter



Hub Configuration Coefficient $K_3=0.8$

Min. Hub Dia. (D_N in inches)

Model Number	AS	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	AS	12,370	3.058	2.785	2.610	2.530	2.463	2.386	2.343	2.263	2.206	2.162
PL7/8	AS	12,370	3.058	2.785	2.610	2.530	2.463	2.386	2.343	2.263	2.206	2.162
PL1	AS	14,650	3.653	3.234	2.980	2.867	2.774	2.668	2.611	2.503	2.427	2.370
PL1-1/8	AS	13,370	3.758	3.383	3.149	3.043	2.954	2.853	2.797	2.693	2.619	2.563
PL1-3/16	AS	13,370	3.748	3.374	3.140	3.034	2.945	2.845	2.790	2.686	2.612	2.556
PL1-1/4	AS	15,360	4.556	3.992	3.657	3.510	3.388	3.252	3.177	3.040	2.942	2.869
PL1-3/8	AS	15,360	4.562	3.997	3.662	3.514	3.392	3.256	3.181	3.043	2.946	2.873
PL1-7/16	AS	15,500	4.975	4.350	3.980	3.818	3.684	3.534	3.452	3.301	3.194	3.114
PL1-1/2	AS	15,500	4.975	4.350	3.980	3.818	3.684	3.534	3.452	3.301	3.194	3.114
PL1-5/8	AS	17,490	6.482	5.466	4.907	4.670	4.477	4.266	4.152	3.943	3.796	3.688
PL1-11/16	AS	17,490	6.482	5.466	4.907	4.670	4.477	4.266	4.152	3.943	3.796	3.688
PL1-3/4	AS	17,490	6.482	5.466	4.907	4.670	4.477	4.266	4.152	3.943	3.796	3.688
PL1-7/8	AS	16,350	6.436	5.548	5.037	4.816	4.635	4.434	4.325	4.123	3.981	3.876
PL1-15/16	AS	16,350	6.436	5.548	5.037	4.816	4.635	4.434	4.325	4.123	3.981	3.876
PL2	AS	18,910	8.117	6.616	5.845	5.527	5.272	4.996	4.848	4.580	4.395	4.258
PL2-1/8	AS	18,910	8.117	6.616	5.845	5.527	5.272	4.996	4.848	4.580	4.395	4.258
PL2-3/16	AS	17,780	7.929	6.644	5.947	5.652	5.414	5.152	5.012	4.754	4.575	4.442
PL2-1/4	AS	17,780	7.929	6.644	5.947	5.652	5.414	5.152	5.012	4.754	4.575	4.442
PL2-3/8	AS	17,780	7.902	6.622	5.927	5.633	5.396	5.135	4.995	4.738	4.559	4.427
PL2-7/16	AS	18,340	8.702	7.197	6.402	6.069	5.802	5.510	5.354	5.068	4.870	4.724
PL2-1/2	AS	18,340	8.702	7.197	6.402	6.069	5.802	5.510	5.354	5.068	4.870	4.724
PL2-9/16	AS	18,340	8.695	7.191	6.396	6.065	5.797	5.506	5.349	5.064	4.866	4.720
PL2-5/8	AS	19,340	10.878	8.758	7.695	7.261	6.915	6.542	6.343	5.982	5.734	5.551
PL2-11/16	AS	19,340	10.878	8.758	7.695	7.261	6.915	6.542	6.343	5.982	5.734	5.551
PL2-3/4	AS	19,340	10.878	8.758	7.695	7.261	6.915	6.542	6.343	5.982	5.734	5.551
PL2-7/8	AS	18,490	10.649	8.775	7.792	7.382	7.053	6.694	6.502	6.153	5.910	5.730
PL2-15/16	AS	18,490	10.649	8.775	7.792	7.382	7.053	6.694	6.502	6.153	5.910	5.730
PL3	AS	17,780	10.572	8.859	7.929	7.537	7.218	6.870	6.683	6.339	6.010	5.923
PL3-3/8	AS	18,630	11.692	9.600	8.510	8.058	7.694	7.299	7.088	6.703	6.436	6.239
PL3-7/16	AS	17,920	11.564	9.659	8.632	8.200	7.850	7.467	7.261	6.885	6.622	6.429
PL3-1/2	AS	17,920	11.564	9.659	8.632	8.200	7.850	7.467	7.261	6.885	6.622	6.429
PL3-3/4	AS	18,770	12.736	10.419	9.220	8.724	8.327	7.895	7.664	7.244	6.953	6.739
PL3-15/16	AS	18,490	13.424	11.062	9.822	9.306	8.891	8.439	8.197	7.756	7.450	7.224
PL4	AS	18,060	13.330	11.099	9.903	9.401	8.996	8.552	8.315	7.880	7.577	7.353
PL4-7/16	AS	17,780	14.538	12.182	10.903	10.364	9.926	9.447	9.189	8.717	8.388	8.145
PL4-1/2	AS	17,780	14.538	12.182	10.903	10.364	9.926	9.447	9.189	8.717	8.388	8.145
PL4-15/16	AS	17,350	15.414	13.036	11.721	11.161	10.706	10.205	9.935	9.439	9.092	8.835
PL5	AS	17,350	15.414	13.036	11.721	11.161	10.706	10.205	9.935	9.439	9.092	8.835
PL5-1/2	AS	17,490	16.445	13.867	12.450	11.849	11.360	10.823	10.534	10.003	9.632	9.358
PL6	AS	18,770	19.849	16.238	14.370	13.597	12.977	12.304	11.945	11.290	10.836	10.503
PL6-1/2	AS	17,210	19.093	16.193	14.580	13.892	13.331	12.714	12.381	11.769	11.341	11.023
PL7	AS	17,490	20.309	17.125	15.375	14.632	14.028	13.365	13.008	12.353	11.895	11.556
PL7-1/2	AS	16,210	19.902	17.198	15.636	14.958	14.401	13.783	13.447	12.827	12.390	12.065
PL7-7/8	AS	16,350	20.912	18.026	16.367	15.649	15.060	14.406	14.052	13.397	12.937	12.594
PL8	AS	15,930	20.934	18.175	16.567	15.866	15.288	14.646	14.297	13.650	13.194	12.855
PL8-1/2	AS	16,640	23.332	20.007	18.116	17.302	16.635	15.897	15.497	14.761	14.243	13.859
PL9	AS	15,930	23.255	20.191	18.404	17.625	16.984	16.270	15.882	15.164	14.658	14.280
PL9-1/2	AS	17,210	26.197	22.218	20.005	19.061	18.292	17.445	16.988	16.148	15.560	15.125
PL10	AS	18,770	30.717	25.129	22.238	21.042	20.083	19.041	18.485	17.472	16.770	16.253
PL10-1/2	AS	18,060	30.385	25.300	22.574	21.430	20.506	19.495	18.953	17.961	17.271	16.761
PL11	AS	16,500	28.865	24.815	22.500	21.500	20.680	19.773	19.281	18.373	17.735	17.261
PL11-13/16	AS	17,060	31.514	26.808	24.175	23.048	22.129	21.116	20.569	19.562	18.857	18.334

D - PT COMPONENTS