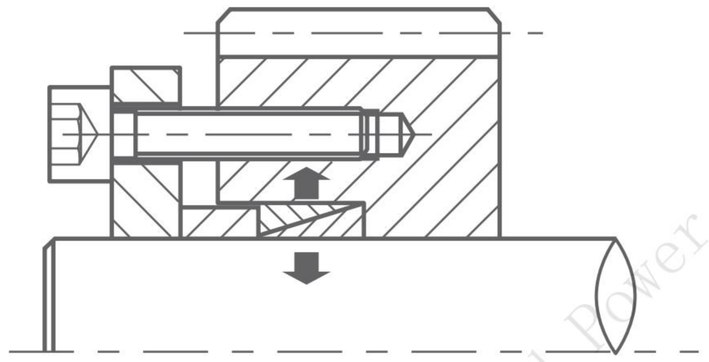
New Standard Power Transmission

NSPT-LOCKS





Suitable for Shaft

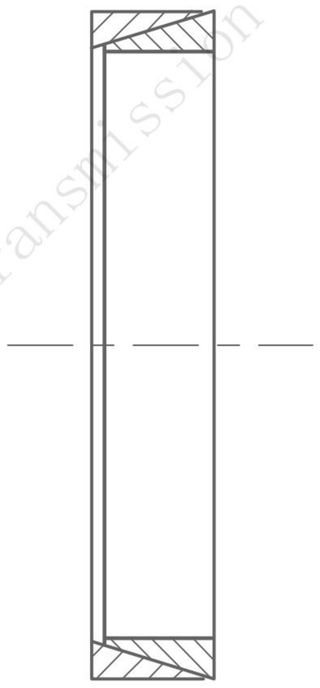
Metric: f10～f180 (mm)

Inch:3/8"～7"

E NSPT-LOCKS include two inner and outer taper rings. The structure is simple and compact. It dose not need a large installation space, circular without split and is well balance dynamically.

E NSPT-LOCKS transfer high surface pressures onto the shaft by the pressing flange. E NSPT-LOCKS transfers high surface pressures onto the shaft by the pressing flange. The connection is formed by tightly compressing the shaft and the taper hole. It is well applicable to the light load and small space installation.

Type F and type H pressing flange may also be chosen according to the different shaft diameters and structures.



Expression of NSPT-LOCK Type E

NL 36 X 42 E

- E — NSPT Lock E Type
- 42 — Out Diameter
- 36 — Bore Diameter
- NL — NSPT-LOCKS Code

Conversion:1 inch = 25.40mm

Conversion

1 ft-lbs.= 0.1382 kgf-m = 1.3550 N.m

1 Psi = 0.0007 kgf/mm^2 = 0.0069 Mpa

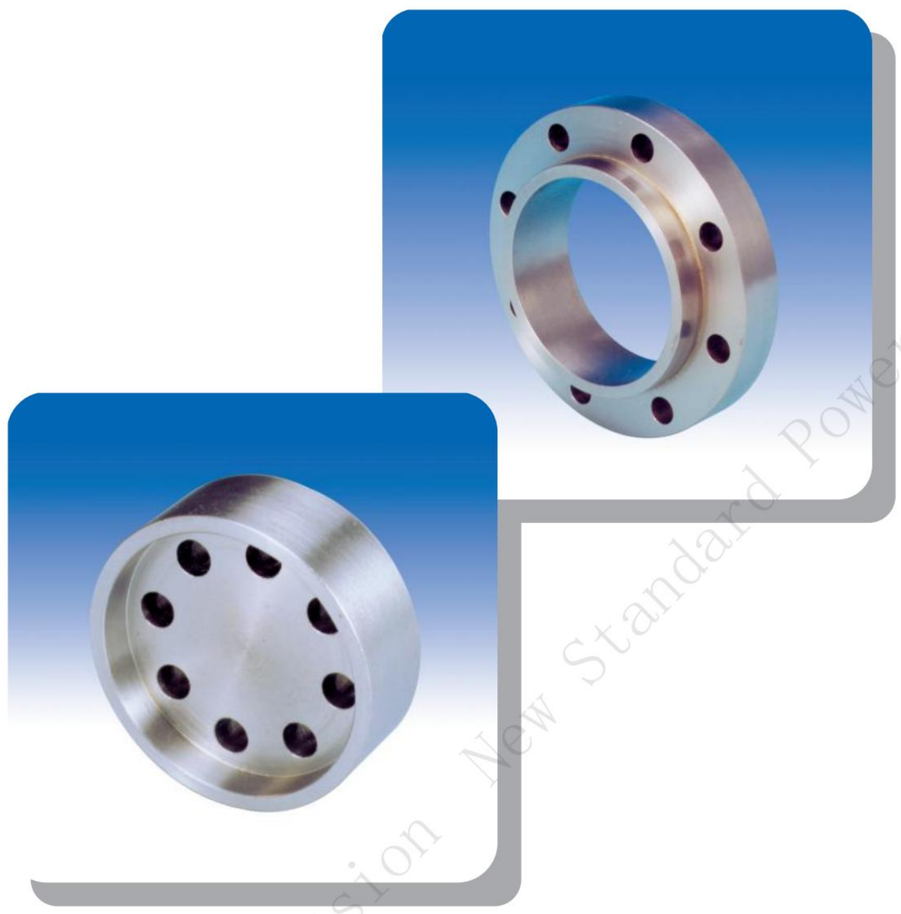
E NSPT-LOCKS

NSPT-LOCKS E Inches

dxD	SIZE inches		Pre-load force Pt lb	Total force Pa lb	INCHES		Mt ft-lb	Axial force lb	pw psi	pn psi	Spacer Diameter	
	d	D			L	L1					inside dl inch	outside dl inch
6x9	0.236	0.354	0	855			1.48	189	16675	10875	0.240	0.350
7x10	0.276	0.394	0	878	0.177	0.146	2.22	194	15225	10150	0.280	0.390
8x11	0.315	0.433	0	1193			3.7	263	17400	13050	0.319	0.429
9x12	0.354	0.472	1721	3510			6	396	20300	15225	0.358	0.469
10x13	0.394	0.512	1575	3510	0.177	0.146	7.4	430	19575	15225	0.398	0.508
12x15	0.472	0.591	1575	3510			8	430	16675	13050	0.476	0.587
13x16	0.512	0.630	1463	3510	0.177	0.146	10	455	15950	13050	0.516	0.626
14x18	0.551	0.709	2475	5715	0.248	0.209	16	716	16675	13050	0.555	0.705
15x19	0.591	0.748	2430	5715			18	729	15950	12325	0.594	0.744
16x20	0.630	0.787	2250	5715			20	770	15225	12325	0.634	0.783
17x21	0.669	0.827	2160	5715	0.248	0.209	22	790	15225	12325	0.673	0.823
18x22	0.709	0.866	2059	5715			24	812	14500	11600	0.713	0.862
19x24	0.748	0.945	2813	8100			36	1175	20300	15950	0.756	0.937
20x25	0.787	0.984	2700	8100	0.248	0.209	39	1199	19575	15225	0.795	0.976
22x26	0.866	1.024	2025	8100			49	1350	19575	16675	0.874	1.016
24x28	0.945	1.102	1890	8100			54	1379	18850	15950	0.953	1.094
25x30	0.984	1.181	2250	8100	0.248	0.209	53	1298	16675	13775	0.992	1.173
28x32	1.102	1.260	1688	8100			65	1424	16675	14500	1.110	1.252
30x35	1.181	1.378	1935	8100	0.248	0.209	67	1368	14500	12325	1.189	1.358
32x36	1.260	1.417	1778	10125	0.248	0.209	97	1854	18850	16675	1.268	1.409
35x40	1.378	1.575	2250	12150	0.276	0.236	127	2198	18125	15950	1.386	1.567
36x42	1.417	1.654	2633	12150	0.276	0.236	125	2113	16675	14500	1.425	1.646
38x44	1.496	1.732	2475	12150	0.276	0.236	134	2149	15950	13775	1.504	1.724
40x45	1.575	1.772	3128	14850	0.315	0.260	171	2603	16675	15225	1.583	1.764
42x48	1.654	1.890	3499	14850	0.315	0.260	174	2524	15950	13775	1.661	1.882
45x52	1.772	2.047	6368	22275	0.394	0.339	261	3535	15225	13775	1.780	2.039
48x55	1.890	2.165	5558	29700	0.394	0.339	423	5364	22475	19575	1.898	2.157
50x57	1.969	2.244	5310	29700	0.394	0.339	445	5418	21750	18850	1.976	2.236
55x62	2.165	2.441	4883	29700	0.394	0.339	496	5479	20300	18125	2.173	2.433
56x64	2.205	2.520	6638	35370	0.472	0.409	585	6345	18850	16675	2.213	2.512
60x68	2.362	2.677	6188	35370			636	6435	18125	15950	2.370	2.669
63x71	2.480	2.795	5963	35370	0.472	0.409	673	6480	17400	15225	2.488	2.787
65x73	2.559	2.874	5738	35370			703	6570	16675	14500	2.567	2.866
70x79	2.756	3.110	6975	47160			1021	8865	18125	15950	2.768	3.098
71x80	2.795	3.150	6975	47160	0.551	0.480	1036	8865	17400	15950	2.807	3.138
75x84	2.953	3.307	7808	47160			1073	8685	16675	14500	2.965	3.295
80x91	3.150	3.583	10800	65250			1628	12375	18125	15225	3.161	3.571
85x96	3.346	3.800	10238	68625	0.669	0.591	1776	12690	17400	15225	3.358	3.768
90x101	3.543	3.976	9810	72000			2020	13612	17400	15225	3.555	3.965
95x106	3.740	4.173	9293	74250	0.669	0.591	2257	14445	17400	15950	3.752	4.161
100x114	3.937	4.488	13725	100125	0.827	0.736	3108	18900	17400	15225	3.949	4.476
110x124	4.331	4.882	14850	109125	0.827	0.736	3811	21060	17400	15225	4.343	4.870
120x134	4.724	5.276	13568	114750	0.827	0.736	4477	22680	17400	15225	4.732	5.264
130x148	5.118	5.827	21668	172125	1.102	0.996	7104	33210	17400	15225	5.134	5.811
140x158	5.512	6.220	20025	180113	1.102	0.996	8140	35662	17400	15225	5.528	6.205
150x168	5.906	6.614	19125	193500	1.102	0.996	9546	38700	17400	15225	5.921	6.598
160x178	6.299	7.008	17685	202500	1.102	0.996	10804	41063	17400	15950	6.315	6.992
170x191	6.693	7.520	26415	261000	1.299	1.181	14430	51525	14790	15225	6.713	7.500
180x201	7.087	7.913	25043	270000	1.299	1.181	15762	53100	17400	15225	7.106	7.894
190x211	7.480	8.307	23625	283500	1.299	1.181	17908	57375	17400	15950	7.500	8.287
200x224	7.874	8.819	30195	348750	1.496	1.370	22940	69750	17400	15225	7.898	8.795
210x234	8.268	9.213	28620	362250	1.496	1.370	25900	74925	17400	15950	8.291	9.189
220x244	8.661	9.606	27473	380250	1.496	1.370	28120	77625	17400	15950	8.685	9.583
230x257	9.055	10.118	37013	450000	1.693	1.555	34780	91800	17400	15225	9.079	10.094
240x267	9.449	10.512	35415	506250	1.693	1.555	37740	95625	17400	15950	9.472	10.488
250x280	9.843	11.024	42750	463500	1.890	1.732	38480	93375	14500	12905	9.874	10.992
260x290	10.236	11.417	40950	479700	1.890	1.732	41810	97875	14500	12905	10.268	11.386
270x300	10.630	11.811	39825	496575	1.890	1.732	45140	101250	14500	12905	10.661	11.780
280x313	11.024	12.323	46350	570600	2.087	1.929	53650	117000	14500	12905	11.055	12.291
290x323	11.417	12.717	49950	592200	2.087	1.929	57350	120375	14500	12905	11.449	12.685
300x333	11.811	13.110	48150	608400	2.087	1.929	61420	124875	14500	12905	11.842	13.079
320x360	12.598	14.173	65700	785700	2.559	2.323	84360	159750	14500	12905	12.638	14.134
340x380	13.386	14.961	61200	826200	2.559	2.323	95090	169875	14500	12905	13.425	14.921
360x400	14.173	15.748	58050	868050			106560	180000	14500	13050	14.213	15.709
380x420	14.961	16.535	60525	915525	2.559	2.323	118770	190125	14500	13050	15.000	16.496
400x440	15.748	17.323	57600	957600			131720	200250	14500	13050	15.787	17.283

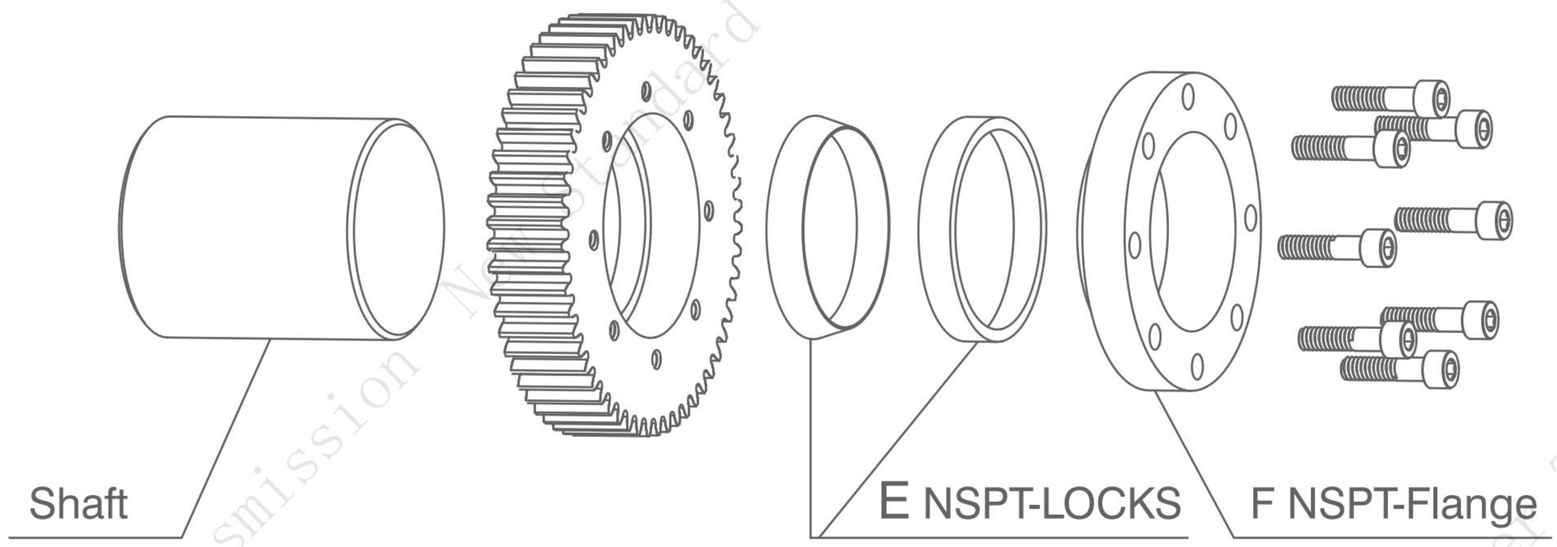
NSPT-LOCKS E Inches



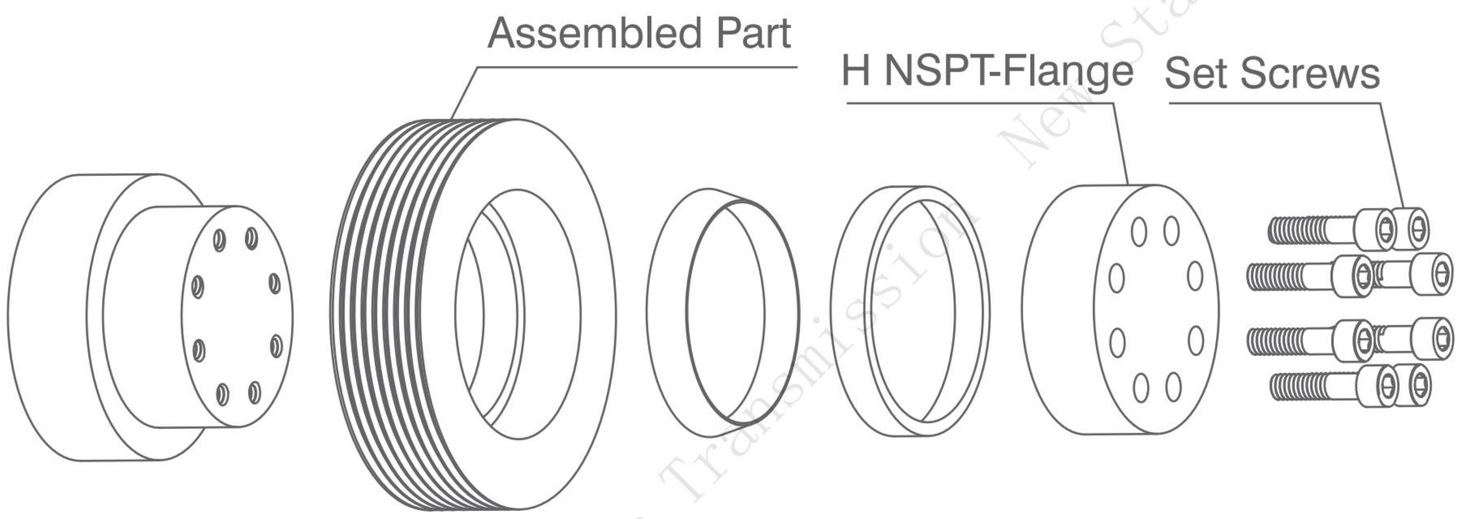


E NSPT-LOCKS Assembling Diagram:

Using "F" bolt on hubs to assemble E NSPT-LOCKS



Using "H" bolt on hubs to assemble E NSPT-LOCKS



NSPT-LOCKS

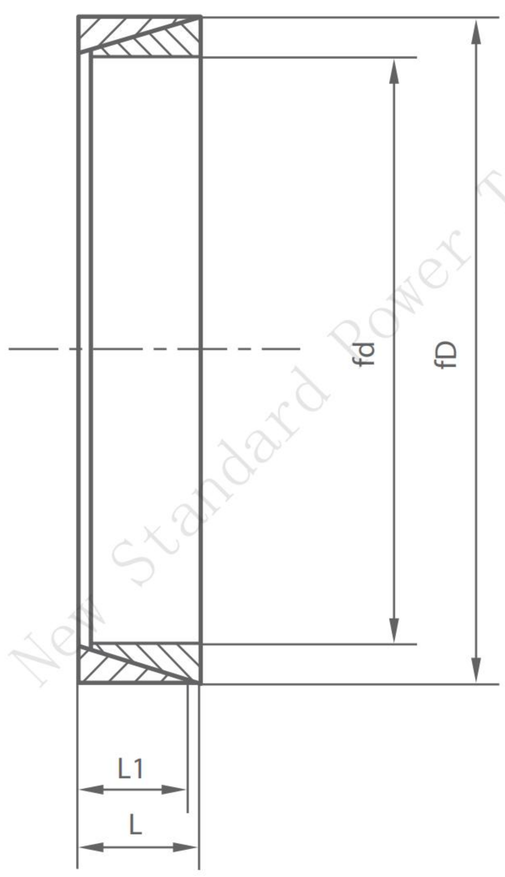
Metric

E NSPT-LOCKS

Catalog dxD	fundamental dimensions		RATED LOAD Pf=100N/mm²		G kg
	L	L1	Ft (KN)	Mt (KN.M)	
CL10x13E	4.5	3.7	1.4	0.007	0.002
CL12x15E	4.5	3.7	1.67	0.01	0.002
CL13x16E	4.5	3.7	1.81	0.012	0.002
CL14x18E	6.3	5.3	2.8	0.02	0.005
CL15x19E	6.3	5.3	3.0	0.023	0.005
CL16x20E	6.3	5.3	3.2	0.026	0.006
CL17x21E	6.3	5.3	3.4	0.029	0.006
CL18x22E	6.3	5.3	3.6	0.033	0.008
CL19x24E	6.3	5.3	3.8	0.036	0.008
CL20x25E	6.3	5.3	4.0	0.04	0.01
CL22x26E	6.3	5.3	4.5	0.05	0.01
CL24x28E	6.3	5.3	4.8	0.058	0.01
CL25x30E	6.3	5.3	5.0	0.06	0.01
CL28x32E	6.3	5.3	5.6	0.078	0.01
CL30x35E	6.3	5.3	6.0	0.09	0.01
CL32x36E	6.3	5.3	6.4	0.102	0.015
CL35x40E	7.0	6.0	7.9	0.139	0.02
CL36x42E	7.0	6.0	8.1	0.147	0.02
CL38x44E	7.0	6.0	8.6	0.163	0.02
CL40x45E	8.0	6.6	9.9	0.20	0.025
CL42x48E	8.0	6.6	10.5	0.22	0.04
CL45x52E	10.0	8.6	14.6	0.33	0.043
CL48x55E	10.0	8.6	15.6	0.38	0.045
CL50x57E	10.0	8.6	16.2	0.40	0.05
CL55x62E	10.0	8.6	17.8	0.49	0.06
CL56x64E	12.0	10.4	22.0	0.62	0.074
CL60x68E	12.0	10.4	23.5	0.70	0.074
CL63x71E	12.0	10.4	25.5	0.83	0.08
CL65x73E	12.0	10.4	25.6	0.93	0.08
CL70x79E	14.0	12.2	32.0	1.12	0.11
CL71x80E	14.0	12.2	32.7	1.16	0.12
CL75x84E	14.0	12.2	34.4	1.29	0.12
CL80x91E	17.0	15.0	45.0	1.81	0.19
CL85x96E	17.0	15.0	48.0	2.04	0.20
CL90x101E	17.0	15.0	51.0	2.29	0.22
CL95x106E	17.0	15.0	54.0	2.55	0.23
CL100x114E	21.0	18.7	70.0	3.50	0.38
CL105x119E	21.0	18.7	73.2	3.82	0.40
CL110x124E	21.0	18.7	77.0	4.25	0.41
CL120x134E	21.0	18.7	84.0	5.05	0.45
CL125x139E	21.0	18.7	92.0	5.75	0.62
CL130x148E	28.0	25.3	124.0	8.05	0.85
CL140x158E	28.0	25.3	134.0	9.35	0.91
CL150x168E	28.0	25.3	143.0	10.70	0.97
CL160x178E	28.0	25.3	152.5	12.20	1.02
CL170x191E	33.0	30.0	192.0	16.30	1.50
CL180x201E	33.0	30.0	204.0	18.30	1.58



Conversion:1 inch = 25.40mm



Conversion

1 ft-lbs.= 0.1382 kgf-m = 1.3550 N.m

1 Psi = 0.0007 kgf/mm² = 0.0069 Mpa