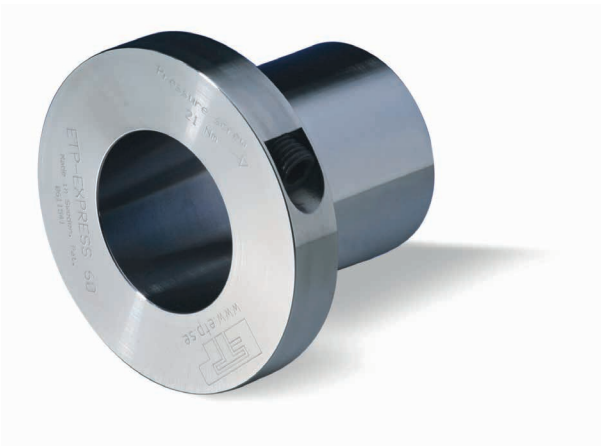


ETP-EXPRESS®

Hydraulic locking bush

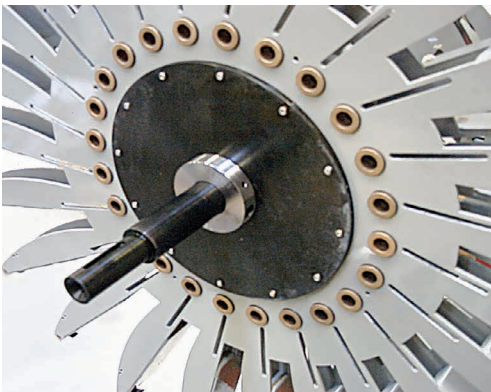
The easiest mounting in the tightest installation space.



The extremely small built-in dimensions of the ETP-EXPRESS® provides a compact, low-weight design with a very low moment of inertia. Extremely easy mounting, compact dimensions and precise positioning are key features of the ETP-EXPRESS®.

Highlights

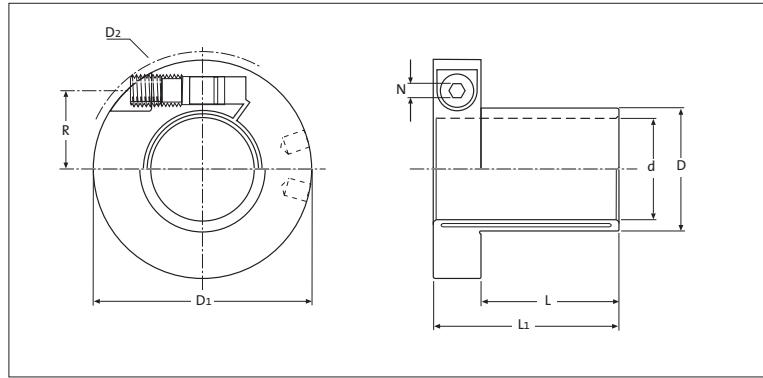
- Extremely fast mounting/dismantling with just one screw
- Extremely small built-in dimensions
- Radial tightening of the screw saves space on the shaft
- Precise positioning, no axial movement when fitting
- High degree of concentricity, even after multiple mountings



For fast mounting in the tightest mounting spaces

Structure/function

The ETP-EXPRESS® is a hydraulic locking bush, consisting of a double-wall, hardened steel sleeve that is filled with a specially developed pressure medium and a flange section. When the pressure screw is tightened, the sleeve expands evenly towards the shaft and the hub and thereby establishes a fixed, friction-locked connection. After loosening the pressure screw, the ETP-EXPRESS® returns to its original state and is easy to dismantle. This whole process can be repeated up to 2,000 times.



ETP-EXPRESS® technical specifications

ETP-EXPRESS®	Dimensions						Transmittable			Screw			Moment of inertia J [kgm ² · 10 ⁻³]	Weight [kg]	
	d	D	D ₁	D ₂	L	L ₁	torque M [Nm]	axial force F _A [kN]	radial force F _R [kN]	DIN 915, 12.9					
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]				Size	R [mm]	N [mm]			M _{tight} [Nm]
15	15	18	46	48.9	25	39	46	5.1	0.5	M10	15.1	5	5	0.04	0.16
5/8"	15.875	19	47	49.8	26	40	53	5.5	0.5	M10	15.6	5	5	0.05	0.17
19	19	23	50.5	53.0	28	42	85	7.3	1	M10	17.4	5	5	0.06	0.20
3/4"	19.05	23	50.5	53.0	28	42	85	7.3	1	M10	17.4	5	5	0.06	0.20
20	20	24	51.5	54.1	30	44	110	9.1	1	M10	18	5	5	0.07	0.21
22	22	27	55.5	60.5	32	46	130	9.6	1.2	M10	19.3	5	5	0.10	0.25
7/8"	22.225	27	55.5	60.5	32	46	130	9.6	1.2	M10	19.3	5	5	0.10	0.25
24	24	29	57.5	62.3	33	47	190	13	1.4	M10	20.3	5	5	0.11	0.27
25	25	30	58	62.9	35	49	230	15	1.5	M10	20.8	5	5	0.12	0.27
1"	25.4	31	59	63.8	35	49	190	12	1.5	M10	21.2	5	5	0.13	0.29
28	28	34	63	69.6	38	52	280	16	1.8	M10	22.6	5	5	0.17	0.34
1 1/8"	28.575	35	63.5	70.1	39	53	290	16	1.8	M10	23	5	5	0.18	0.35
30	30	36	64.5	71.0	40	54	380	21	2	M10	23.6	5	5	0.19	0.35
1 1/4"	31.75	39	68.5	77.7	42	56	430	22	2.2	M10	24.8	5	5	0.25	0.42
32	32	39	68.5	77.7	42	56	440	22	2.2	M10	24.8	5	5	0.25	0.42
1 3/8"	34.925	42	73	85.1	45	59	640	30	2.5	M10	26.4	5	5	0.32	0.48
35	35	42	73	85.1	45	59	640	30	2.5	M10	26.4	5	5	0.32	0.48
1 7/16"	36.5125	44	74.5	86.6	48	62	740	33	2.6	M10	27.3	5	5	0.36	0.52
38	38	46	84.5	89.5	52	72	890	38	2.8	M16	31	8	21	0.76	0.84
1 1/2"	38.1	46	84.5	89.5	52	72	890	38	2.8	M16	31	8	21	0.76	0.84
40	40	48	86.5	91.2	55	75	1100	45	3	M16	32	8	21	0.84	0.88
42	42	51	89	93.5	56	76	1100	43	3.2	M16	33.2	8	21	0.97	0.96
1 3/4"	44.45	54	93	100.3	58	78	1400	51	3.5	M16	34.8	8	21	1.20	1.10
45	45	54	93	100.3	58	78	1400	51	3.5	M16	34.8	8	21	1.17	1.05
48	48	59	97	103.8	59	79	1700	57	4	M16	36.8	8	21	1.46	1.21
1 15/16"	9.2125	60	98.5	105.1	60	80	1900	63	4.3	M16	37.5	8	21	1.57	1.27
50	50	60	98.5	105.1	60	80	1900	63	4.5	M16	37.5	8	21	1.52	1.20
2"	50.8	61	101.5	111.8	60	80	1900	62	4.5	M16	38	8	21	1.72	1.28
55	55	67	106	115.9	65	85	2400	71	5	M16	40.5	8	21	2.18	1.50
60	60	73	115.5	132.7	70	90	3300	90	5.3	M16	43.3	8	21	3.17	1.85
65	65	79	120.5	137	75	95	4400	112	5.6	M16	46.1	8	21	4.1	2.13
2 1/2"	63.5	77	119	134.6	73	93	4000	105	5.4	M16	45.1	8	21	3.74	2.04
70	70	85	135.5	153.9	85	109	5600	130	6.4	M20	50.8	10	39	7.12	3.04
3"	76.2	92	141.5	157.8	91	115	7500	160	7	M20	54.1	10	39	9.01	3.48
80	80	97	145.5	162.6	95	119	8700	180	7.5	M20	56.3	10	39	10.35	3.75
90	90	109	155.5	171.7	105	129	12000	220	8.6	2 x M20	61.8	10	39	15.20	4.80
100	100	121	166	181.0	115	139	17000	280	9.7	2 x M20	67.3	10	39	21.90	5.90

Tolerances

h7 shaft for d = 15 mm
k6 - h7 shaft for d = 19, 22, 24, 28, 32, 38, 42, 48, 55 mm
h8 shaft for all other diameters h8.
H7 hub.

Types of torque

Transmittable torque M for static load.
For alternating or pulsating loads, the transmittable torque is reduced by the following factors:
Alternating: 0.5 x M.
Pulsating: 0.6 x M.