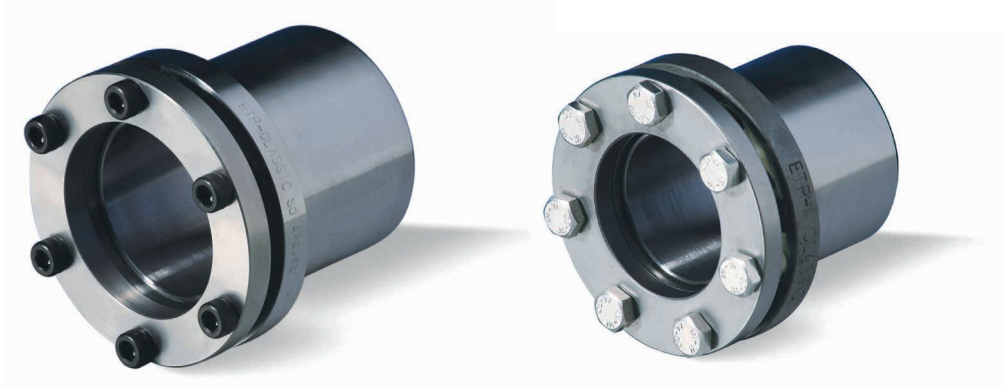


ETP-CLASSIC®

Hydraulic locking bush

# For fast and easy installation.



The ETP-CLASSIC® is ideal for fastening items such as toothed belt pulleys, cam discs and lever arms. A few screws are all that is needed to fix it precisely to the shaft. Mounting is also very quick and easy because it only requires a low tightening torque.

The ETP-CLASSIC® R is a rust-free version of this locking bush. It is made of stainless steel, which makes it very popular in the pharmaceutical and food industries.

## Highlights

- Compact built-in dimensions
- Easy mounting thanks to just a few screws with low tightening torque
- Sensitive hub-setting during mounting
- Good concentricity even after multiple mountings (up to 100 mountings possible)

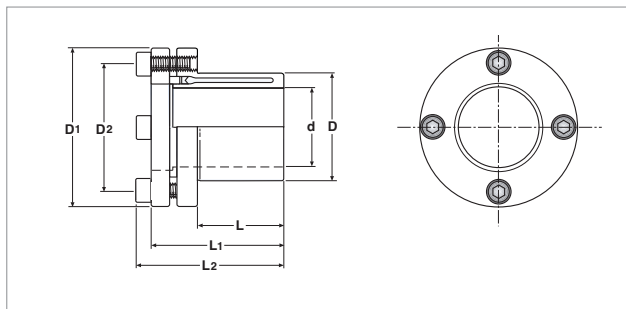
# ETP-CLASSIC®

Hydraulic locking bush

## Structure/function

The ETP-CLASSIC® comprises a double-walled, hardened steel sleeve, a sealing ring, a piston, a pressure flange and tightening screws. The steel sleeve contains a special pressure medium. When the tightening screws are tightened, the sleeve therefore expands evenly and presses against the shaft and hub. This creates friction-locking and produces a fixed connection.

If the tightening screws are loosened again, the sleeve returns to its original state and is then easy to dismantle. The rust-free version, ETP-CLASSIC® R, has hexagon head screws which are easier to clean and is therefore ideally suited for machines in the food industry.



## ETP-CLASSIC® technical specifications

ETP-CLASSIC®	Dimensions							Transmittable			Screw			Moment of inertia J [kgm <sup>2</sup> · 10 <sup>-3</sup> ]	Weight [kg]
	d [mm]	D [mm]	D <sub>1</sub> [mm]	D <sub>2</sub> [mm]	L [mm]	L <sub>1</sub> [mm]	L <sub>2</sub> [mm]	torque M [Nm]	axial force F <sub>A</sub> [kN]	radial force F <sub>R</sub> [kN]	DIN 915, 12.9				
											No.	Size	M <sub>anz</sub> [Nm]		
15	15	23	38	28.5	17	30	35	55	7.3	2.5	3	M5	6	0.019	0.10
19	19	28	45	35	21	37	42	100	10.6	5.8	3	M5	8	0.045	0.17
20	20	28	45	35	22	37	42	125	12.5	6.6	3	M5	8	0.043	0.16
22	22	32	49	40	22	37	42	135	12.3	8.2	4	M5	8	0.063	0.20
24	24	34	49	40	25	40	45	200	16.7	9.8	4	M5	8	0.066	0.20
25	25	34	49	40	27	43	48	250	20.0	10.6	4	M5	8	0.067	0.20
28	28	39	55	46	29	45	50	300	21.4	13.1	4	M5	8	0.112	0.27
30	30	41	57	47.5	32	47	52	420	28.0	14.7	4	M5	8	0.133	0.30
32	32	43	60	50.5	34	52	57	420	26.3	16.3	4	M5	8	0.180	0.35
35	35	47	63	53.5	37	55	60	650	37.1	18.8	6	M5	8	0.230	0.41
38	38	50	65	56	41	59	64	750	39.5	21.2	6	M5	8	0.277	0.44
40	40	53	70	60.5	43	63	68	940	47.0	22.8	6	M5	8	0.408	0.57
42	42	55	70	60.5	45	65	70	940	44.8	24.4	6	M5	8	0.414	0.56
45	45	59	77	66.5	49	69	75	1,290	57.3	26.9	6	M6	13	0.636	0.73
48	48	62	80	69.5	52	73	79	1,570	65.4	29.3	6	M6	13	0.761	0.80
50	50	65	83	72.5	53	76	82	1,900	76.0	30.9	6	M6	13	0.943	0.91
55	55	71	88	78	58	82	88	2,500	90.9	35.0	8	M6	13	1.301	1.09
60	60	77	95	84.5	64	90	96	3,400	113	39.1	8	M6	13	1.959	1.40
65	65	84	102	91	68	96	102	3,500	108	43.1	8	M6	13	2.780	1.72
70	70	90	113	99	72	99	107	5,200	149	47.2	6	M8	32	4.035	2.09
75	75	95	118	104	85	114	122	6,300	168	51.3	6	M8	32	5.500	2.51
80	80	100	123	109	90	120	128	8,800	220	55.0	6	M8	32	8.100	2.68
85	85	106	129	115	95	125	133	8,800	207	58.0	6	M8	32	9.500	3.09
90	90	112	135	121	100	133	141	11,000	244	60.0	8	M8	32	12.200	3.52
95	95	120	143	129	105	139	147	12,800	269	61.5	8	M8	32	17.100	4.46
100	100	125	148	134	110	145	153	15,500	310	62.0	8	M8	32	19.950	4.87

M ... Transmittable torque at F<sub>A</sub> = 0

F<sub>A</sub> ... Transmittable axial force at M = 0

F<sub>R</sub> ... Maximum transmissible radial force in static operation at

M<sub>anz</sub> ... Recommend tightening torque for the screws

### Tolerances:

Shaft h8-k6 (size 15 h7)

Shaft tolerance k6 increases the transmittable torque by 20%

Hub H7

We would be happy to support and advise you if you require individual dimensioning or modified designs.