

## Clamping Bushes E and E-N

**Material E:** high-quality steel

**Material E-N:** stainless steel 1.405

The clamping bush consists of a double-walled steel sleeve filled with a pressure medium, and a flange part. Inside the flange there is a screw and a piston with seal to build up compression.

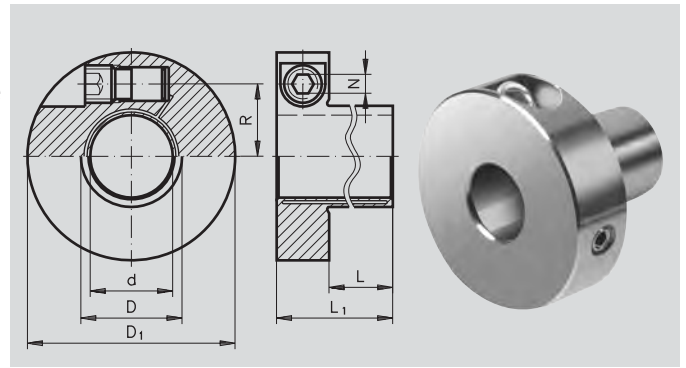
**Function:** When the thrust screw is tightened, the sleeve expands uniformly against shaft and hub, creating a rigid connection through frictional force. When the thrust screw is loosened, the bush returns to its initial position and can be easily disassembled.

**Concentricity:** 0.02 mm.

**Tolerances:** Shaft h7 for d = 15 mm.  
Shaft k6-h7 for d = 19, 22, 24, 28 and 38 mm.  
Shaft h8 for the other diameters d.  
Hub H7.

**Temperature range:** -30 °C to 85 °C.

**ROSTFREI**



Ordering Details: e.g.: Product No. 615 915 00, Clamping Bush E, 15 mm

Product No. Design E Steel	Dimensions					Torque MN Nm	Transmittable		Screws DIN 915, 12.9*			Torque of Inertia J kgm <sup>2</sup> ·10 <sup>-3</sup>	Weight kg	
	d mm	D mm	D <sub>1</sub> mm	L mm	L <sub>1</sub> mm		Axial Load Fa kN	Radial Force Fr kN	Size	R mm	N mm			Manz Nm
615 915 00	15	18	46	25	39	46	6.1	0.5	M10	15.1	5	5	0.043	0.16
615 915 87	15.875	19	47	26	40	53	6.7	0.5	M10	15.6	5	5	0.047	0.17
615 919 00	19	23	50.5	28	42	85	8.9	1	M10	17.4	5	5	0.064	0.20
615 919 05	19.05	23	50.5	28	42	85	8.9	1	M10	17.4	5	5	0.064	0.20
615 920 00	20	24	51.5	30	44	110	11	1	M10	18	5	5	0.070	0.21
615 922 00	22	27	55.5	32	46	130	11	1.2	M10	19.3	5	5	0.097	0.25
615 924 00	24	29	57.5	33	47	190	15	1.4	M10	20.3	5	5	0.112	0.27
615 925 00	25	30	58	35	49	230	18	1.5	M10	20.8	5	5	0.117	0.27
615 925 40	25.4	31	59	35	49	190	15	1.5	M10	21.2	5	5	0.127	0.29
615 928 00	28	34	63	38	52	280	20	1.8	M10	22.6	5	5	0.170	0.34
615 930 00	30	36	64.5	40	54	380	25	2	M10	23.6	5	5	0.189	0.35
615 931 75	31.75	39	68.5	42	56	430	27	2.2	M10	24.8	5	5	0.249	0.42
615 932 00	32	39	68.5	42	56	440	27	2.2	M10	24.8	5	5	0.249	0.42
615 935 00	35	42	73	45	59	640	36	2.5	M10	26.4	5	5	0.325	0.48
615 938 00	38	46	84.5	52	72	890	46	2.8	M16	31	8	21	0.761	0.84
615 940 00	40	48	86.5	55	75	1100	55	3	M16	32	8	21	0.844	0.88
615 945 00	45	54	93	58	78	1400	62	3.5	M16	34.8	8	21	1.170	1.05
615 950 00	50	60	98.5	60	80	1900	76	4.5	M16	37.5	8	21	1.524	1.20

Product No. Design E-N Stainless	Dimensions					Torque MN Nm	Transmittable		Screws DIN 915, A4*			Torque of Inertia J kgm <sup>2</sup> ·10 <sup>-3</sup>	Weight kg	
	d mm	D mm	D <sub>1</sub> mm	L mm	L <sub>1</sub> mm		Axial Load Fa kN	Radial Force Fr kN	Size	R mm	N mm			Manz Nm
615 999 15	15	18	46	25	39	46	6.1	0.5	M10	15.1	5	5	0.043	0.16
615 999 20	20	24	51.5	30	44	110	11	1.0	M10	18	5	5	0.070	0.21
615 999 25	25	30	58	35	49	230	18	1.5	M10	20.8	5	5	0.117	0.27
615 999 30	30	36	64.5	40	54	380	25	2	M10	23.6	5	5	0.189	0.35
615 999 35	35	42	73	45	59	640	36	2.5	M10	26.4	5	5	0.325	0.48
615 999 40	40	48	86.5	55	75	1100	55	3	M16	32	8	21	0.844	0.88
615 999 45	45	54	93	58	78	1400	62	3.5	M16	34.8	8	21	1.170	1.05
615 999 50	50	60	98.5	60	80	1900	76	4.5	M16	37.5	8	21	1.524	1.20

MN = transmittable torque at load of 0. If the screws are fastened with Manz.  
Fa = transmittable axial force at torque of 0. If the screws are fastened with Manz.

Fr = Maximum transmittable radial force.  
Manz = required fastening torque for the screws.  
\* with coated surface

### Properties

The unique hydraulic principle leads to many advantages:

- very fast mounting/demounting with only **one thrust screw**.
- radial fastening of the thrust screw allows space saving installation conditions.
- very small assembly dimensions.
- good concentricity, even after several mountings.

### Mounting

Before mounting always check whether the threads are lubricated (OKS 260 or Molykote D).

- exact positioning, no axial displacement when mounting.
- good concentricity.

- When the thrust screw was fastened using the fastening torque stated, the piston is in its end position and the clamping bush has built up an even surface pressure at shaft and hub.