

Clamping Bushes MSD

Material: high-quality steel.

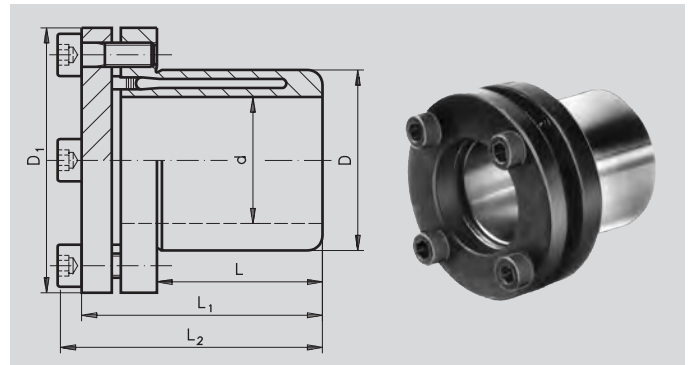
The MSD clamping bush consists of a double-walled, hardened steel sleeve filled with a special pressure medium, a seal, a piston, a compression flange and fastening screws. When tightening the screws, the sleeves expand evenly against shaft and hub, creating a rigid connection. When the screws are loosened, the bush returns to its initial position and can be easily demounted.

Concentricity: about 0.03 - 0.06 mm

Tolerance: Shaft h8 - k6 (for Product No. 615 215 00 only h7),
Hub H7.

Temperature range: -30 °C to 85 °C.

Ordering Details: e.g.: Product No. 615 215 00, Clamping Bush MSD, 15 mm



Product No.	Dimensions						Transmitt. Torque or Axial Load		Screws DIN 912, 12.9			Moment of Inertia J kgm ² · 10 ⁻³	Weight kg
	d mm	D mm	D ₁ mm	L mm	L ₁ mm	L ₂ mm	M _N Nm	F _a kN	Amount Pieces	Size	Manz Nm		
615 215 00	15	23	38	17	30	35	55	7.3	3	M 5	6	0.018	0.10
615 219 00	19	28	45	21	37	42	100	10.6	3	M 5	8	0.046	0.17
615 220 00	20	28	45	22	37	42	125	12.5	3	M 5	8	0.046	0.16
615 222 00	22	32	49	22	37	42	135	12.3	4	M 5	8	0.065	0.19
615 224 00	24	34	49	25	40	45	200	16.7	4	M 5	8	0.067	0.20
615 225 00	25	34	49	27	43	48	250	20.0	4	M 5	8	0.071	0.19
615 228 00	28	39	55	29	45	50	300	21.4	4	M 5	8	0.120	0.26
615 230 00	30	41	57	32	47	52	420	28.0	4	M 5	8	0.142	0.29
615 232 00	32	43	60	34	52	57	420	26.3	4	M 5	8	0.195	0.35
615 235 00	35	47	63	37	55	60	650	37.1	6	M 5	8	0.250	0.40
615 238 00	38	50	65	41	59	64	750	39.5	6	M 5	8	0.310	0.43
615 240 00	40	53	70	43	63	68	940	47.0	6	M 5	8	0.441	0.55
615 242 00	42	55	70	45	65	70	940	44.8	6	M 5	8	0.467	0.55
615 245 00	45	59	77	49	69	75	1290	57.3	6	M 6	13	0.686	0.71
615 248 00	48	62	80	52	73	79	1570	65.4	6	M 6	13	0.833	0.78
615 250 00	50	65	83	53	76	82	1900	76.0	6	M 6	13	1.045	0.86

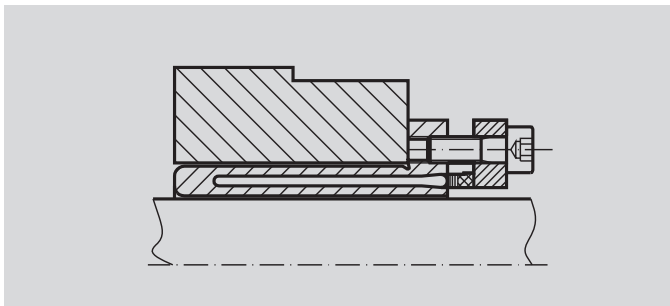
M_N = transmittable torque at load of 0. If the screws are fastened with M_{anz}.

F_a = transmittable axial force at torque of 0. If the screws are fastened with M_{anz}.

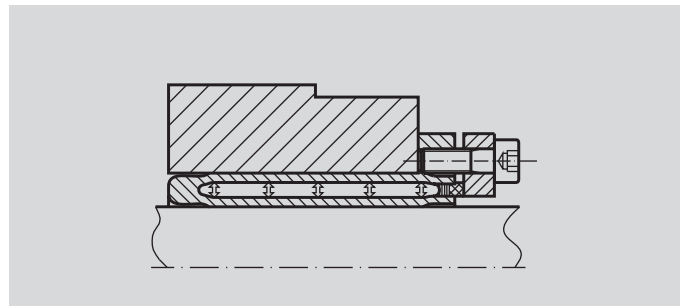
M_{anz} = required fastening torque for the screws.

The dimensions refer to bushes before assembly.

Mounting



For mounting, the clamping bush MSD is placed between shaft and hub.



After the screws have been tightened, there is a contact between the surface of hub and shaft.

Advantages

- The hydraulic principle leads to many advantages:
- fast mounting/demounting
- sensitive adjustment of the hub can be carried out during assembly
- low fastening torque and few screws allow very simple assembly.

Advantages

- good concentricity
- small dimensions allow little outside diameter of the hub
- The clamping bushes are as standard equipped with Allen screws, but hexagon-head screws can also be supplied.