

Shrink Disc

Type SD 602 - High Torque

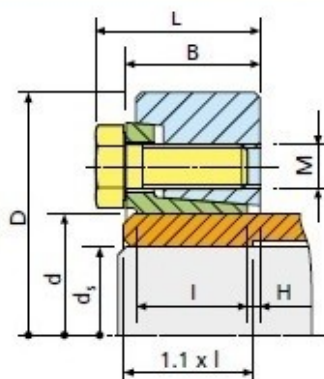


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Fit tolerance

d	H7 - f7
$d_1 \leq \phi 160$	H7 - h6
$d_s > \phi 160$	H7 - g6

Surface roughness on the pressure surfaces of the shaft and the hub should be

$$Ra \leq 3.2 \mu m$$

d mm	ds mm	D mm	B MM	L mm	I mm	H mm	M mm	Ts Nm	T Nm	F NM
50	38-40-42	90	26	31.5	22	2.5	8	34	1600-1800-200	84-90-95
55	42-45-48	100	29	34.5	24.5	36	8	34	1700-2100-2500	81-93-104
60	48-50-52	110	29	34.5	24.5	36	8	34	2300-2500-2900	96-100-112
62										
68	50-55-60	115	29.5	35	24.5	3.5	8	34	2400-3200-4000	96-116-133
75	55-60-65	138	31	38	25	4	10	70	3800-4900-6000	138-163-185
80	60-635-70	141	31	38	25	4	10	70	4300-5400-6500	143-166-186
85	65-70-75	155	38	45	31.5	4	10	70	6000-7200-8600	185-206-229
90										
95										
100	70-75-80	170	43.5	50.5	36.5	4.5	10	70	7500-9000-10600	214-240-265
105	80-85-90	185	49	57	40.5	5	12	120	12800-14800-17000	320-348-378
110										
115	85-90-95	197	53	61	45	5	12	120	13700-15800-18200	322-351-383
120										
125	90-95-100	215	53.5	61.5	45	5.5	12	120	166000-19000-21500	369-400-430
130	95-100-110	215	53.5	61.52	45	5.5	12	120	18300-21200-25000	385-424-455
130	95-100-110	230	57.5	66.5	47	6.5	14	190	20500-23500-29500	432-470-536
135										
140	100-105-115	230	58	67	47	7	14	190	23500-26000-32500	470-495-565
150	110-120-125	263	63	72	51	7.5	14	190	31500-35000-43000	573-583-688
155										
160	120-130-135	290	68	79	56	7.5	16	290	45000-49000-59000	750-754-874
165										
170	130-140-145	300	69	80	56	8	16	290	55000-60000-71000	846-857-979
175										
180	140-150-155	320	85.5	96.5	71.5	8	16	290	81000-88000-101000	1157-1173-1303
185										
190	150-160-165	340	85.5	96.5	71.5	8	16	290	97000-104000-120000	1293-1300-1455
195										
200										
220	160-170-180	370	105	118	88	11	20	570	130000-150000-170000	1625-1765-1889
240	170-180-200	405	109	122	92	11	20	570	152000-174000-219000	1788-1933-2190
260	190-200-220	430	120	133	1403	11	20	570	215000-240000-300000	2263-2400-2727
280	210-220-240	460	13.5	1478	114	14	20	570	282000-313000-380000	2686-2845-3167
300	220-230-250	485	140	155	122	16	24	990	365000-403000-487000	3318-3504-3896
320	240-250-270	520	142	157	122	16	24	990	444000-488000-580000	3700-3904-4296
340	250-260-280	570	159	174	137	18	24	990	536000-586000-693000	4288-4508-4950

The Advantages of the SD 602 system compared to SD – three part

- No need of a torque wrench: tighten the screws in clockwise sequence in different stages until the front faces of the flange and of the outer ring are aligned. This allows the transmission of the torque values stated on the catalogue charts. According to marketing researches 85% of assembled clamping elements has not been tightened using a torque wrench. Moreover following to tests, even the best trained fitters tighten the screws at 30% lower torque compared to the catalogue value T_s . As a consequence 85% of the assembled clamping elements transmit 30% lower torque than the catalogue data. SD 602 are the perfect solution to the problem by replacing torque setting that requires precision, with position setting that only needs the alignment of two surfaces. Moreover the interchangeability with the traditional types is guaranteed.
- Saving up to 80% of mounting time if using a powered screwdriver.
- Improved and higher transmissible torque thanks to larger screw sizes.
- At first the tighter geometrical manufacturing tolerances assure a higher degree of balancing and also the “single block fitting” by aligning the two flanges (flush mounted) automatically guarantees the parallel setting and this will further postpone the need of dynamic balancing.

Assembly instructions

- Do not tighten the screw before the clamping element is mounted on the hub.
- Verify that flange and outer ring are not blocked before assembling; if necessary release the flange using the extraction screws.
- Clean and slightly oil the inner diameter of the clamping element and the outer diameter of the hub.
- *The essential condition to transmit the catalogue torque values is to clean and degrease the surface between shaft and hub, and to respect tolerances and indicated on the technical charts.*
- After having assembled shaft and hub, position the clamping element and tighten the screw by hand.

Tightening without torque wrench

- Tighten the screw in clockwise sequence in several steps, in order to align the flange and the outer ring surface: in this flush mounted condition the clamping element will transmit the catalogue torque value.

How to Disassemble

- Release all the screw in clockwise sequence in different stages until the flange and ring are released.
- If the flange and the Ring do not release, Disassemble some screw ands and tighten them in the extraction holes of the flange surface until it is released.
- Do not completely remove all the screw if the flange and the ring are still blocked because they could suddenly release causing danger to the operator