Toothed clamping elements

METRIC











MATERIAL

Special glass-fibre reinforced polyamide based (PA) SUPERtechnopolymer, black colour, matte finish.

STANDARD EXECUTIONS

Central plain pass-through hole and two holes for pins.

SUPER-technopolymer

- RDB-F: front mounting by means of two holes for cylindrical-head
- RDB-CF: integral with case, front mounting by means of two holes for cylindrical-head screws.
- RDB-B: rear mounting by means of two pass-through holes and two stainless steel hexagonal nuts (included in the supply).
- RDB-CB: integral with case, rear mounting by means of two pass-through holes and two stainless steel hexagonal nuts (included in the supply).

FEATURES AND APPLICATIONS

The toothed clamping elements RDB-F and RDB-B, coupled between them or with the executions RDB-CF or RDB-CB, allow to lock the position of two components rotating around an axis.

The locking angle is adjustable with a pitch of 6°.

ACCESSORIES ON REQUEST

Conversion Table 1 mm = 0.039 inch

inch

1.26

1.57

1.28

1.71

mm

32

40

32.5

43.5

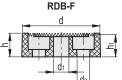
AISI 301 stainless steel push springs facilitating the detachment of the toothed clamping elements.

Code	Description	d	Max load [N]	₽₽
51965	ML-RDB.32	23	65	2
51967	ML-RDB.40	29	90	4

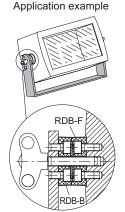


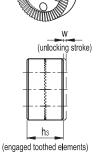
60 teeth

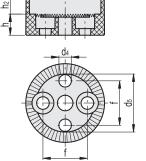


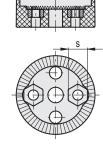












RDB-B

1

































(METRIC

Code Description d d1 d2 d3 d4 d5 d6 f h h1 h2 h3 s w min. [Nm 51981 RDB.32-60-F 32 6.3 5 - 5 23.5 - 18 9.5 9 - 18 - 1.2 80 51991 RDB.40-60-F 40 8.3 6 - 6 30 - 23 12 11.4 - 22.8 - 1.3 120 51983 RDB.32-60-B 32 6.3 4 M4 5 23.5 - 18 9.5 9 - 18 7 1.2 80 51993 RDB.40-60-B 40 8.3 5 M5 6 30 - 23 12 11.4 - 22.8 8 1.3 120 51985 RDB.32-60-CF 35.5 6.3 5 - 5 23.5 32.5																▼		
51991 RDB.40-60-F 40 8.3 6 - 6 30 - 23 12 11.4 - 22.8 - 1.3 120 51983 RDB.32-60-B 32 6.3 4 M4 5 23.5 - 18 9.5 9 - 18 7 1.2 80 51993 RDB.40-60-B 40 8.3 5 M5 6 30 - 23 12 11.4 - 22.8 8 1.3 120 51985 RDB.32-60-CF 35.5 6.3 5 - 5 23.5 32.5 18 9.5 9 8.2 18 - 1.2 80	44	C# [Nm]	w min.	s	h3	h2	h1	h	f	d6	d5	d4	d3	d2	d1	d	Description	Code
51983 RDB.32-60-B 32 6.3 4 M4 5 23.5 - 18 9.5 9 - 18 7 1.2 80 51993 RDB.40-60-B 40 8.3 5 M5 6 30 - 23 12 11.4 - 22.8 8 1.3 120 51985 RDB.32-60-CF 35.5 6.3 5 - 5 23.5 32.5 18 9.5 9 8.2 18 - 1.2 80	9	80	1.2	-	18	-	9	9.5	18	-	23.5	5	-	5	6.3	32	RDB.32-60-F	51981
51993 RDB.40-60-B 40 8.3 5 M5 6 30 - 23 12 11.4 - 22.8 8 1.3 120 51985 RDB.32-60-CF 35.5 6.3 5 - 5 23.5 32.5 18 9.5 9 8.2 18 - 1.2 80	16	120	1.3	-	22.8	-	11.4	12	23	-	30	6	-	6	8.3	40	RDB.40-60-F	51991
51985 RDB.32-60-CF 35.5 6.3 5 - 5 23.5 32.5 18 9.5 9 8.2 18 - 1.2 80	10	80	1.2	7	18	-	9	9.5	18	-	23.5	5	M4	4	6.3	32	RDB.32-60-B	51983
	18	120	1.3	8	22.8	-	11.4	12	23	-	30	6	M5	5	8.3	40	RDB.40-60-B	51993
51995 RDB.40-60-CF 43.5 8.3 6 - 6 30 40 23 12 11.4 10.5 22.8 - 1.3 140	15	80	1.2	-	18	8.2	9	9.5	18	32.5	23.5	5	-	5	6.3	35.5	RDB.32-60-CF	51985
	26	140	1.3	-	22.8	10.5	11.4	12	23	40	30	6	-	6	8.3	43.5	RDB.40-60-CF	51995
51987 RDB.32-60-CB 35.5 6.3 4 M4 5 23.5 32.5 18 9.5 9 8.2 18 7 1.2 80	16	80	1.2	7	18	8.2	9	9.5	18	32.5	23.5	5	M4	4	6.3	35.5	RDB.32-60-CB	51987
51997 RDB.40-60-CB 43.5 8.3 5 M5 6 30 40 23 12 11.4 10.5 22.8 8 1.3 140	28	140	1.3	8	22.8	10.5	11.4	12	23	40	30	6	M5	5	8.3	43.5	RDB.40-60-CB	51997

The maximum torque exercisable (C) is the torque applied to the two fully meshed toothed elements beyond which the material can give rise to some type of failure such as to compromise the functionality of the product. This value will obviously be affected by a coefficient that takes into account the importance and the security level of the specific application.

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