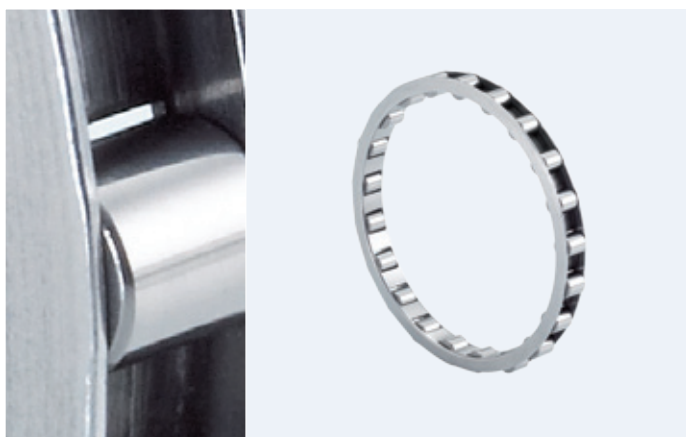


Roller Bearings RL 400



Accessories



Components

Roller bearing	RL 400
· Cage	Steel (RL 443 and RL 448 brass)
· Rollers	Hardened bearing steel Nominal diameter 4 mm

- Thrust rings -

- Ball bearing -

- Roller bearing -

- Lubrication -

- Seal -

Characteristics

Installed width:
6 mm

Operating temperature:
max. 170 °C
(RL 443 and RL 448 max. 150°C)

Lubrication

oil or grease lubrication (Pg. 60–61)
Delivered with corrosion protection.

Installation

Installation tolerances
Shaft h5; hub H6

Inner ring/shaft
steel, HRC 60⁺⁴ (HV 700⁺¹⁰⁰); Ehd ≥ 1.3 mm; Rz ≤ 2.5 μm

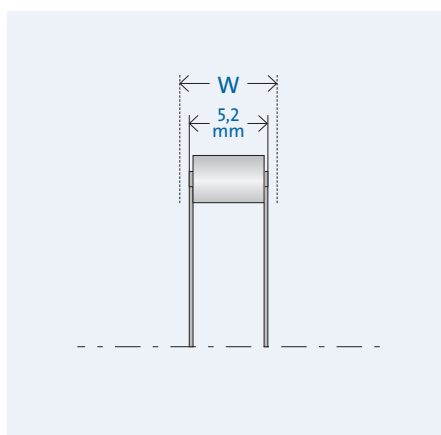
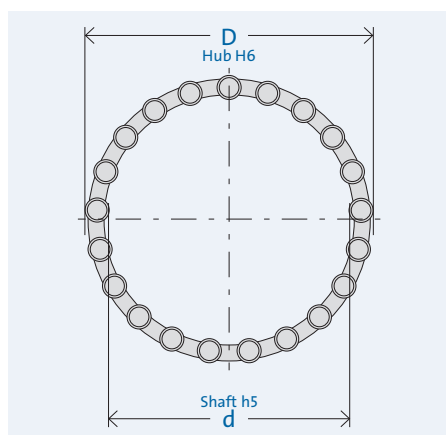
Outer ring/hub
steel, HRC 60⁺⁴ (HV 700⁺¹⁰⁰); Ehd ≥ 1.3 mm; Rz ≤ 2.5 μm

Constraints

The roller bearing requires axial constraints on both sides.
(collar, snap ring, C-clip, etc.).



Data



Drawing legend

d = inner diameter

D = outer diameter

W = width

n = rotation speed

C = load capacity

Designation	d [mm]	D [mm]	W [mm]	$C_{dyn.}$ [N]	$C_{stat.}$ [N]	Oil n_{max} [rpm]	Grease n_{max} [rpm]	Item no.
RL 412 - 4	4	12	6	3,040	1,760	55,000	45,000	303071
RL 414 - 4	6	14	6	3,575	2,112	50,000	37,000	303131
RL 416 - 4	8	16	6	3,895	2,347	36,000	30,000	303091
RL 418 - 4	10	18	6	5,212	3,520	30,000	24,000	303111
RL 422 - 4	14	22	6	6,013	4,380	25,000	19,000	302652
RL 423 - 4	15	23	6	6,034	4,446	24,000	18,000	302914
RL 425 - 4	17	25	6	7,157	5,699	21,000	17,000	302954
RL 427 - 4	19	27	6	7,679	6,397	20,000	15,000	302672
RL 428 - 4	20	28	6	7,679	6,453	19,000	15,000	302853
RL 430 - 4	22	30	6	8,150	7,148	17,000	14,000	302974
RL 432 - 4	24	32	6	8,104	7,241	16,000	13,000	302692
RL 433 - 4	25	33	6	8,104	7,283	15,000	12,000	303169
RL 437 - 4	29	37	6	8,962	8,661	14,000	11,000	302712
RL 438 - 4	30	38	6	8,962	8,696	13,000	10,000	302993
RL 442 - 4	34	42	6	10,247	10,708	12,000	9,000	302732
RL 443 - 4	35	43	6	10,103	10,741	12,000	9,000	302873
RL 448 - 4	40	48	6	11,642	13,440	10,000	8,000	302893
RL 453 - 4	45	53	6	11,417	13,577	9,000	7,000	302752
RL 455 - 4	47	55	6	11,417	13,624	8,800	6,900	303012
RL 458 - 4	50	58	6	11,922	14,993	8,500	6,500	303031
RL 459 - 4	51	59	6	12,691	16,320	8,000	6,400	302773
RL 463 - 4	55	63	6	13,070	17,063	7,500	6,000	302793
RL 468 - 4	60	68	6	12,690	17,160	7,100	5,600	303151
RL 470 - 4	62	70	6	14,128	19,840	7,000	5,300	302813
RL 473 - 4	65	73	6	14,128	19,896	6,500	5,100	302833
RL 478 - 4	70	78	6	13,614	19,978	6,000	5,000	303051
RL 488 - 4	80	88	6	14,954	22,796	5,300	4,300	303183