

APPENDIX A

TOLERANCES FOR LENGTH AND DIAMETER FOR EXTRUDED PARTS ACCORDING TO DIN 40680 TOLERANCE ACCORDING TO THE PRINCIPLE OF INDEPENDENCE ISO 8015. ISO 14405-1

Nominal size Ø / Length in mm		Allowed tolerances in mm		Cover size	Accuracy level
>	≤	coarse	medium	≤ 30mm	medium
	4	± 0.4	± 0.15		
4	6	± 0.6	± 0.20	> 30mm	coarco
6	8	± 0.7	± 0.25	> 30mm coarse	
8	10	± 0.8	± 0.30	Definition of KYOCERA Fineceramics Europe Mannheim	
10	13	± 1.0	± 0.35		
13	16	± 1.2	± 0.40	The deviation from straightness is determined in accordance with DIN 40680-2 by measuring the greatest vertical distance of the lateral surface from the straight line connecting the furthest points of the outer chord of the workpiece and related to the length.	
16	20	± 1.2	± 0.45		
20	25	± 1.5	± 0.50		
25	30	± 1.5	± 0.55		
30	35	± 2.0	± 0.60		
35	40	± 2.0	± 0.65		
40	45	± 2.0	± 0.70		
45	50	± 2.5	± 0.80		
50	55	± 2.5	± 0.90		
55	60	± 2.5	± 1.00		
60	70	± 3.0	± 1.20		
70	80	± 3.5	± 1.40	Ovality: 3% of the nominal size	
80	90	± 4.0	± 1.60	Twist: Maximum twist cannot be guaranteed	
90	100	± 4.5	± 1.80	Chipping: The edges are cut and not bevelled. Small edge chipping is possible	
100	110	± 5.0	± 2.00	Concentricity: A deviation up to 0.5mm from the centre point is allowed	
110	125	± 5.5	± 2.20	Hole Circle: The DIN 40680 medium column applies to the bolt circle of a capillary, based on the outside diameter	
125	140	± 6.0	± 2.50		
140	155	± 6.5	± 2.80		Tighter tolerances on request
155	170	± 7.0	± 3.00		October 202
170	185	± 7.5	± 3.40	October 2	
185	200	± 8.0	± 3.80		
200	250	± 9.0	± 4.20		
250	300	±10.0	± 4.60		
300	350	± 11.0	± 5.00		

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± 12.0

± 14.0

±16.0

± 19.0

± 20.0

± 13.0 ± 6.10

± 15.0 ± 7.60

± 17.5 ± 9.00

± 0.02 * d ± 0.01 * d

350

400

450

500

600

700

800

900

1000

400

450

500

600

700

800

900

1000

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± 5.50

± 6.80

± 8.30

± 9.50

± 10.00