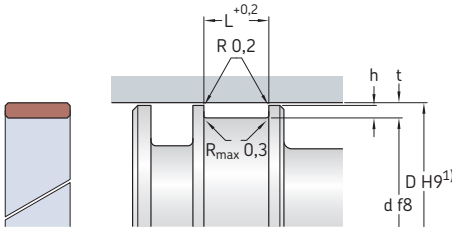


5.4 PGR piston guide rings, metric sizes

D 16 – 220 mm



$$h \geq t/2$$

Dimensions				Designation		Dimensions				Designation		
D	d	L	t			D	d	L	t			
mm				-		mm				-		
16	11	5,6	2,5	PGR 16x11x5.6-PF		50	44	10	3	PGR 50x44x10-PF		
	12,9	4	1,55	PGR 16x12.9x4-PF			45	5,6	2,5	PGR 50x45x5.6-PF		
18	13	5,6	2,5	PGR 18x13x5.6-PF			45	6,3	2,5	PGR 50x45x6.3-PF		
	14,9	4	1,55	PGR 18x14.9x4-PF			45	9,7	2,5	PGR 50x45x9.7-PF		
20	15	5,6	2,5	PGR 20x15x5.6-PF			46	12	2	PGR 50x46x12-PF		
	16,9	4	1,55	PGR 20x16.9x4-PF			46,9	4	1,55	PGR 50x46.9x4-PF		
25	20	5,6	2,5	PGR 25x20x5.6-PF			55	50	4	2,5	PGR 55x50x4-PF	
	21,9	4	1,55	PGR 25x21.9x4-PF				50	5,6	2,5	PGR 55x50x5.6-PF	
30	24	10	3	PGR 30x24x10-PF				50	9,7	2,5	PGR 55x50x9.7-PF	
	25	5,6	2,5	PGR 30x25x5.6-PF			50	25	2,5	PGR 55x50x25-PF		
	26,9	4	1,55	PGR 30x26.9x4-PF			60	54	10	3	PGR 60x54x10-PF	
32	27	5,6	2,5	PGR 32x27x5.6-PF				54	13	3	PGR 60x54x13-PF	
	28,9	4	1,55	PGR 32x28.9x4-PF		54		20	3	PGR 60x54x20-PF		
35	30	5,6	2,5	PGR 35x30x5.6-PF		54		30	3	PGR 60x54x30-PF		
	31,9	4	1,55	PGR 35x31.9x4-PF		55	55	5,6	2,5	PGR 60x55x5.6-PF		
40	34	10	3	PGR 40x34x10-PF			55	6,3	2,5	PGR 60x55x6.3-PF		
	35	5,6	2,5	PGR 40x35x5.6-PF			55	9,7	2,5	PGR 60x55x9.7-PF		
	35	9,7	2,5	PGR 40x35x9.7-PF		63	57	13	3	PGR 63x57x13-PF		
	36	10	2	PGR 40x36x10-PF			57	20	3	PGR 63x57x20-PF		
	36,9	4	1,55	PGR 40x36.9x4-PF			58	5,6	2,5	PGR 63x58x5.6-PF		
45	39	10	3	PGR 45x39x10-PF			58	6,3	2,5	PGR 63x58x6.3-PF		
	40	5,6	2,5	PGR 45x40x5.6-PF		58	9,7	2,5	PGR 63x58x9.7-PF			
	41	12	2	PGR 45x41x12-PF		58	10	2,5	PGR 63x58x10-PF			
	41,9	4	1,55	PGR 45x41.9x4-PF		65	59	13	3	PGR 65x59x13-PF		
	50	44	10	3	PGR 50x44x10-PF		59	20	3	PGR 65x59x20-PF		
45		5,6	2,5	PGR 50x45x5.6-PF			60	5,6	2,5	PGR 65x60x5.6-PF		
45		6,3	2,5	PGR 50x45x6.3-PF			60	9,7	2,5	PGR 65x60x9.7-PF		
45		9,7	2,5	PGR 50x45x9.7-PF								

¹⁾ Adjustments according to tolerance provided for piston seal are possible, however, the maximum e-gap also need to be considered (→ Gap extrusion, page 34)

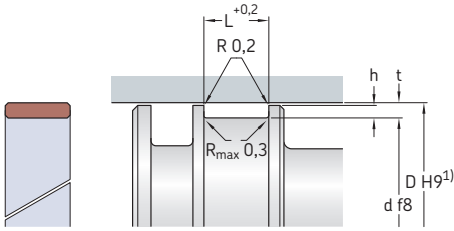
Dimensions				Designation
D	d	L	t	
mm				-
70	64	13	3	PGR 70x64x13-PF
	64	20	3	PGR 70x64x20-PF
	65	5,6	2,5	PGR 70x65x5.6-PF
	65	9,7	2,5	PGR 70x65x9.7-PF
	65	20	2,5	PGR 70x65x20-PF
75	70	5,6	2,5	PGR 75x70x5.6-PF
	70	9,7	2,5	PGR 75x70x9.7-PF
80	72	12	4	PGR 80x72x12-PF
	74	13	3	PGR 80x74x13-PF
	74	20	3	PGR 80x74x20-PF
	74	25	3	PGR 80x74x25-PF
	75	5,6	2,5	PGR 80x75x5.6-PF
85	75	9,7	2,5	PGR 80x75x9.7-PF
	75	15	2,5	PGR 80x75x15-PF
	79	30	3	PGR 85x79x30-PF
80	80	5,6	2,5	PGR 85x80x5.6-PF
	80	9,7	2,5	PGR 85x80x9.7-PF
	84	13	3	PGR 90x84x13-PF
90	84	20	3	PGR 90x84x20-PF
	85	5,6	2,5	PGR 90x85x5.6-PF
	85	9,7	2,5	PGR 90x85x9.7-PF
	89	13	3	PGR 95x89x13-PF
95	90	9,7	2,5	PGR 95x90x9.7-PF
	94	13	3	PGR 100x94x13-PF
100	94	20	3	PGR 100x94x20-PF
	94	25	3	PGR 100x94x25-PF
	94	30	3	PGR 100x94x30-PF
	95	9,7	2,5	PGR 100x95x9.7-PF
	104	13	3	PGR 110x104x13-PF
110	104	20	3	PGR 110x104x20-PF
	104	30	3	PGR 110x104x30-PF
	105	9,7	2,5	PGR 110x105x9.7-PF
	105	15	2,5	PGR 110x105x15-PF
	109	13	3	PGR 115x109x13-PF
115	110	9,7	2,5	PGR 115x110x9.7-PF
	114	13	3	PGR 120x114x13-PF
120	114	20	3	PGR 120x114x20-PF
	114	30	3	PGR 120x114x30-PF
	114	40	3	PGR 120x114x40-PF
	115	9,7	2,5	PGR 120x115x9.7-PF
	119	13	3	PGR 125x119x13-PF
125	119	15	3	PGR 125x119x15-PF
	119	20	3	PGR 125x119x20-PF
	119	25	3	PGR 125x119x25-PF
	119	30	3	PGR 125x119x30-PF
	120	9,7	2,5	PGR 125x120x9.7-PF
130	124	13	3	PGR 130x124x13-PF
	124	30	3	PGR 130x124x30-PF
	125	9,7	2,5	PGR 130x125x9.7-PF
135	129	13	3	PGR 135x129x13-PF

Dimensions				Designation
D	d	L	t	
mm				-
140	134	13	3	PGR 140x134x13-PF
	134	20	3	PGR 140x134x20-PF
	134	25	3	PGR 140x134x25-PF
	134	30	3	PGR 140x134x30-PF
	135	9,7	2,5	PGR 140x135x9.7-PF
	135	15	2,5	PGR 140x135x15-PF
145	139	30	3	PGR 145x139x30-PF
150	144	13	3	PGR 150x144x13-PF
	144	20	3	PGR 150x144x20-PF
	144	30	3	PGR 150x144x30-PF
	144	40	3	PGR 150x144x40-PF
	145	9,7	2,5	PGR 150x145x9.7-PF
	145	15	2,5	PGR 150x145x15-PF
155	149	13	3	PGR 155x149x13-PF
160	154	13	3	PGR 160x154x13-PF
	154	15	3	PGR 160x154x15-PF
	154	19,5	3	PGR 160x154x19.5-PF
	154	30	3	PGR 160x154x30-PF
	154	35	3	PGR 160x154x35-PF
	154	50	3	PGR 160x154x50-PF
155	155	9,7	2,5	PGR 160x155x9.7-PF
	155	15	2,5	PGR 160x155x15-PF
	160	20	5	PGR 170x160x20-PF
170	164	19,5	3	PGR 170x164x19.5-PF
	164	20	3	PGR 170x164x20-PF
	164	30	3	PGR 170x164x30-PF
	165	9,7	2,5	PGR 170x165x9.7-PF
	165	15	2,5	PGR 170x165x15-PF
	172	40	4	PGR 180x172x40-PF
180	174	13	3	PGR 180x174x13-PF
	174	19,5	3	PGR 180x174x19.5-PF
	174	30	3	PGR 180x174x30-PF
	175	9,7	2,5	PGR 180x175x9.7-PF
	175	15	2,5	PGR 180x175x15-PF
	184	25	3	PGR 190x184x25-PF
190	184	30	3	PGR 190x184x30-PF
	185	9,7	2,5	PGR 190x185x9.7-PF
	185	15	2,5	PGR 190x185x15-PF
200	192	25	4	PGR 200x192x25-PF
	194	20	3	PGR 200x194x20-PF
	194	30	3	PGR 200x194x30-PF
	194	50	3	PGR 200x194x50-PF
195	195	9,7	2,5	PGR 200x195x9.7-PF
	195	15	2,5	PGR 200x195x15-PF
	195	20	2,5	PGR 200x195x20-PF
210	205	9,7	2,5	PGR 210x205x9.7-PF
	205	15	2,5	PGR 210x205x15-PF
220	212	20	4	PGR 220x212x20-PF
	212	30	4	PGR 220x212x30-PF
	214	19,5	3	PGR 220x214x19.5-PF
	214	30	3	PGR 220x214x30-PF
	215	9,7	2,5	PGR 220x215x9.7-PF
	215	15	2,5	PGR 220x215x15-PF



5.4 PGR piston guide rings, metric sizes

D 230 – 400 mm



$$h \geq t/2$$

Dimensions				Designation
D	d	L	t	
mm				-
230	225	15	2,5	PGR 230x225x15-PF
240	232	25	4	PGR 240x232x25-PF
	232	40	4	PGR 240x232x40-PF
	235	9,7	2,5	PGR 240x235x9.7-PF
	235	15	2,5	PGR 240x235x15-PF
250	242	20	4	PGR 250x242x20-PF
	242	25	4	PGR 250x242x25-PF
	242	40	4	PGR 250x242x40-PF
	244	19,5	3	PGR 250x244x19.5-PF
	244	50	3	PGR 250x244x50-PF
	245	9,7	2,5	PGR 250x245x9.7-PF
245	15	2,5	PGR 250x245x15-PF	
260	255	9,7	2,5	PGR 260x255x9.7-PF
	255	15	2,5	PGR 260x255x15-PF
270	262	25	4	PGR 270x262x25-PF
	262	30	4	PGR 270x262x30-PF
280	272	25	4	PGR 280x272x25-PF
	275	15	2,5	PGR 280x275x15-PF
	275	25	2,5	PGR 280x275x25-PF
300	292	20	4	PGR 300x292x20-PF
	292	25	4	PGR 300x292x25-PF
	292	40	4	PGR 300x292x40-PF
	295	15	2,5	PGR 300x295x15-PF
	295	25	2,5	PGR 300x295x25-PF
400	392	30	4	PGR 400x392x30-PF

¹⁾ Adjustments according to tolerance provided for piston seal are possible, however, the maximum e-gap also need to be considered (→ Gap extrusion, page 34)