

7

Bearing bushings and spacers

Washers, spacers. Coupling and saddle spacers. Bearing and insulating bushes.

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Bearing bushes without flange

TB

Application: bearing and insulating bushes
Material: polyamide
Standard-Colour: uncoloured



Order No.	Drilled hole Ø	Shaft Ø	Total height	Tolerance dimension	Tolerance dimension	Colour	PU*	MOQ**
	C	A	D	C - min/max	A - min/max			
880622010004000	8,0	12,0	10,0	8,07/8,32	12,12/12,30	nature	5000	-
880622020004000	10,0	12,0	10,0	10,09/10,32	12,07/12,36	nature	1000	-
880622030004000	8,0	14,0	10,0	8,07/8,25	14,03/14,21	nature	10000	10000
880622040004000	10,0	14,0	10,0	10,09/10,27	14,07/14,35	nature	10000	-
880622050004000	12,0	14,0	10,0	12,09/12,31	14,18/14,30	nature	5000	-
880622060004000	10,0	16,0	10,0	10,09/10,27	16,00/16,27	nature	5000	5000
880622070004000	12,0	16,0	10,0	12,09/12,27	16,09/16,27	nature	5000	-
880622080004000	12,0	18,0	14,0	12,09/12,34	18,03/18,30	nature	5000	5000
880622090004000	15,0	20,0	15,0	15,11/15,33	20,07/20,38	nature	5000	5000
880622100004000	16,0	20,0	15,0	16,11/16,43	20,17/20,36	nature	5000	5000
880622110004000	15,0	22,0	15,0	15,11/15,33	22,07/22,33	nature	5000	5000
880622120004000	16,0	22,0	15,0	16,11/16,43	22,08/22,33	nature	5000	5000
880622130004000	16,0	24,0	15,0	16,11/16,38	23,91/24,19	nature	500	-
880622140004000	20,0	24,0	15,0	20,15/20,45	24,20/24,54	nature	2000	4000
880622150004000	15,0	25,0	15,0	15,11/15,33	25,15/25,45	nature	2000	2000
880622160004000	20,0	25,0	15,0	20,15/20,45	25,15/25,45	nature	2500	2500
880622170004000	20,0	26,0	20,0	20,15/20,45	26,15/26,45	nature	2000	2000
880622180004000	20,0	28,0	20,0	20,15/20,45	28,15/28,45	nature	2000	2000
880622190004000	20,0	30,0	20,0	20,01/20,29	30,14/30,50	nature	2500	2500
880622200004000	25,0	30,0	20,0	25,15/25,66	30,45/30,69	nature	2500	2500
880622210004000	25,0	30,0	32,0	25,15/25,45	30,15/30,45	nature	500	1500
880622220004000	25,0	32,0	20,0	25,15/25,45	32,15/32,47	nature	2500	2500
880622230004000	28,0	32,0	20,0	28,20/28,60	32,15/32,45	nature	2500	2500
880622240004000	25,0	35,0	20,0	25,10/25,45	34,91/35,39	nature	500	1000
880622250004000	28,0	35,0	20,0	28,20/28,60	35,20/35,60	nature	500	1000
880622260004000	30,0	35,0	20,0	30,20/30,62	35,20/35,75	nature	500	1500
880622270004000	30,0	36,0	30,0	30,20/30,60	36,20/36,60	nature	500	1500
880622280004000	32,0	36,0	30,0	32,52/32,86	36,32/36,70	nature	500	1000
880622290004000	28,0	38,0	19,0	28,49/28,72	38,20/38,60	nature	1000	1000
880622300004000	30,0	40,0	30,0	30,20/30,60	40,15/40,60	nature	500	1500
880622310004000	32,0	40,0	30,0	32,20/32,60	40,20/40,66	nature	500	1500

Please note that the product illustrations are exemplary images that could deviate from the ordered/delivered products.

All of the dimensions are in mm should nothing to the contrary be stated.

*PU = Packaging Unit, SW = Spanner opening, n.w. = not detachable, o. K. = excl. The head, o. B. = excl. The collar, m. R. = with the radius, MOQ = Minimum Order Quantity.

** MOQ: Parts with MOQ, set-up costs may apply.

We exclusively sell to the trade and industry. Please note our minimum order quantities and the minimum order value per delivery.
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Bearing bushes without flange

TB

Application: bearing and insulating bushes
Material: polyamide
Standard-Colour: uncoloured



Order No.	Drilled hole Ø	Shaft Ø	Total height	Tolerance dimension	Tolerance dimension	Colour	PU*	MOQ**
	C	A	D	C - min/max	A - min/max			
880622320004000	40,0	45,0	40,0	40,23/40,91	45,26/45,70	nature	250	1500
880622330004000	40,0	48,0	40,0	40,23/40,69	48,23/48,69	nature	150	1050
880622340004000	40,0	50,0	40,0	40,23/40,69	50,19/50,80	nature	150	750
880622350004000	50,0	56,0	50,0	50,30/50,90	56,30/56,90	nature	150	750
880622360004000	50,0	60,0	50,0	50,30/51,03	60,30/61,27	nature	150	600
880622370004000	54,0	62,0	60,0	54,30/54,90	62,30/63,27	nature	150	600

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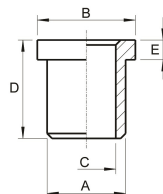
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Bearing bushes with flange

Application: bearing and insulating bushes
Material: polyamide
Standard-Colour: uncoloured

TBB



Order No.	Drilled holeØ	ShaftØ	FlangeØ	Total height	Flange height	Tolerance dimension	Tolerance dimension	Colour	PU*	MOQ**
	C	A	B	D	E	C - min/max	A - min/max			
880619010004000	6,0	8,0	10,0	10,0	2,0	6,10/6,20	7,80/8,20	nature	25000	25000
880619010004001	6,0	8,0	10,0	10,0	2,0	6,10/6,20	7,80/8,20	nature	1000	-
880619020004000	6,0	10,0	15,0	8,0	1,5	6,20/6,30	10,1/10,26	nature	1000	-
880619030004000	6,0	10,0	15,0	10,0	1,5	6,07/6,21	10,07/10,2	nature	10000	-
880619030004001	6,0	10,0	15,0	10,0	1,5	6,07/6,30	10,07/10,2	nature	1000	-
880619040004000	8,0	12,0	16,0	6,0	2,0	8,07/8,21	12,07/12,21	nature	1000	-
880619050004000	8,0	12,0	16,0	12,0	2,0	8,07/8,21	12,07/12,24	nature	1000	-
880619060004000	10,0	12,0	16,0	6,0	2,0	10,07/10,21	12,22/12,25	nature	1000	-
880619070004000	10,0	12,0	16,0	12,0	2,0	10,14/10,26	12,07/12,26	nature	1000	-
880619080004000	8,0	14,0	20,0	10,0	2,0	8,07/8,21	14,03/14,21	nature	5000	5000
880619090004000	8,0	14,0	20,0	12,0	2,0	8,15/8,24	14,05/14,26	nature	5000	5000
880619100004000	10,0	14,0	20,0	10,0	2,0	10,09/10,27	14,07/14,21	nature	1000	-
880619110004000	10,0	14,0	20,0	12,0	2,0	10,09/10,25	14,07/14,24	nature	5000	-
880619120004001	12,0	14,0	20,0	10,0	2,0	12,09/12,32	14,07/14,23	nature	1000	-
880619130004000	12,0	14,0	20,0	12,0	2,0	12,35/12,45	14,28/14,37	nature	5000	-
880619140004000	10,0	16,0	20,0	10,0	2,0	10,09/10,25	16,07/16,20	nature	1000	-
880619150004000	10,0	16,0	20,0	12,0	2,0	10,09/10,27	16,07/16,19	nature	1000	-
880619160004001	12,0	16,0	20,0	10,0	2,0	12,21/12,32	16,09/16,27	nature	1000	-
880619170004000	12,0	16,0	20,0	12,0	2,0	12,21/12,32	16,09/16,22	nature	1000	-
880619180004000	13,0	17,0	24,0	20,0	4,0	13,09/13,27	17,09/17,27	nature	5000	5000
880619190004000	14,0	17,0	24,0	20,0	4,0	14,10/14,25	17,14/17,32	nature	1000	-
880619200004000	10,0	18,0	24,0	20,0	4,0	10,16/10,34	18,11/18,27	nature	5000	5000
880619210004000	12,0	18,0	24,0	20,0	4,0	12,09/12,27	18,12/18,30	nature	500	-
880619220004000	13,0	20,0	28,0	20,0	4,0	13,09/13,27	20,08/20,27	nature	2000	2000
880619230004000	14,0	20,0	28,0	20,0	4,0	14,04/14,22	20,10/20,31	nature	2000	2000
880619240004000	15,0	20,0	28,0	20,0	4,0	15,11/15,32	20,09/20,31	nature	2000	-
880619250004000	16,0	20,0	28,0	15,0	2,0	16,11/16,33	20,09/20,29	nature	500	-
880619260004000	16,0	20,0	28,0	20,0	4,0	16,11/16,33	20,09/20,32	nature	2500	2500
880619270004000	14,0	20,0	30,0	20,0	4,0	14,06/14,27	20,09/20,27	nature	2500	2500
880619280004000	14,0	20,0	30,0	24,0	2,0	14,09/14,27	19,09/20,27	nature	2500	2500
880619290004000	15,0	20,0	30,0	20,0	4,0	15,11/15,33	20,09/20,27	nature	2500	2500

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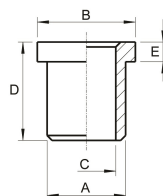
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Bearing bushes with flange

TBB

Application: bearing and insulating bushes
Material: polyamide
Standard-Colour: uncoloured



Order No.	Drilled hole Ø	Shaft Ø	Flange Ø	Total height	Flange height	Tolerance dimension	Tolerance dimension	Colour	PU*	MOQ**
	C	A	B	D	E	C - min/max	A - min/max			
880619300004000	16,0	20,0	30,0	20,0	4,0	16,11/16,28	20,09/20,27	nature	2500	-
880619310004000	12,0	22,0	30,0	20,0	4,0	12,26/12,38	22,05/22,25	nature	2500	-
880619320004000	14,0	22,0	30,0	20,0	4,0	14,09/14,31	22,11/22,33	nature	2500	2500
880619330004000	15,0	22,0	30,0	20,0	4,0	15,11/15,34	22,11/22,47	nature	2500	2500
880619340004000	16,0	22,0	30,0	15,0	2,0	16,11/16,41	22,15/22,39	nature	2500	-
880619350004000	16,0	22,0	30,0	20,0	4,0	16,29/16,39	22,24/22,38	nature	2500	2500
880619360004000	18,0	22,0	30,0	20,0	4,0	18,40/18,51	22,33/22,57	nature	2500	5000
880619370004000	14,0	24,0	30,0	20,0	4,0	14,09/14,27	24,11/24,33	nature	1000	2000
880619380004000	16,0	24,0	30,0	15,0	2,0	16,25/16,41	23,99/24,19	nature	2500	-
880619390004000	16,0	24,0	30,0	20,0	4,0	16,11/16,35	24,11/24,33	nature	2500	2500
880619400004000	18,0	24,0	30,0	20,0	4,0	18,11/18,37	24,11/24,33	nature	2500	2500
880619410004000	20,0	24,0	30,0	15,0	2,0	20,15/20,56	24,11/24,33	nature	2000	-
880619420004000	20,0	24,0	30,0	20,0	4,0	20,15/20,45	24,11/24,33	nature	2500	5000
880619430004000	15,0	25,0	30,0	20,0	4,0	15,11/15,33	25,11/25,33	nature	2500	2500
880619440004000	16,0	25,0	30,0	20,0	4,0	16,11/16,33	24,92/25,14	nature	2500	2500
880619450004000	18,0	25,0	30,0	20,0	4,0	18,11/18,33	25,11/25,33	nature	2500	2500
880619460004000	20,0	25,0	30,0	15,0	2,0	20,15/20,47	25,05/25,33	nature	2500	-
880619470004000	20,0	25,0	30,0	20,0	4,0	20,34/20,45	25,22/25,40	nature	2500	5000
880619480004000	22,0	25,0	30,0	20,0	4,0	22,49/22,61	25,37/25,56	nature	2500	2500
880619490004000	16,0	26,0	30,0	20,0	4,0	16,11/16,33	26,15/26,45	nature	2500	2500
880619500004000	18,0	26,0	30,0	20,0	4,0	18,11/18,33	26,15/26,45	nature	2500	2500
880619510004000	20,0	26,0	30,0	12,0	2,0	20,45/20,55	26,15/26,45	nature	2500	2500
880619520004000	20,0	26,0	30,0	20,0	4,0	20,15/20,45	26,15/26,45	nature	2500	2500
880619530004000	22,0	26,0	30,0	20,0	4,0	22,49/22,58	26,45/26,55	nature	2500	2500
880619540004000	16,0	26,0	32,0	20,0	4,0	16,11/16,33	26,15/26,45	nature	2500	2500
880619550004000	18,0	26,0	32,0	20,0	4,0	18,11/18,33	26,15/26,45	nature	2500	2500
880619560004000	20,0	26,0	32,0	15,0	2,0	20,15/20,45	26,05/26,45	nature	2500	2500
880619570004000	20,0	26,0	32,0	20,0	3,0	20,15/20,45	26,05/26,45	nature	2500	2500
880619580004000	20,0	26,0	32,0	20,0	4,0	20,15/20,45	26,15/26,45	nature	1000	2000
880619590004000	22,0	26,0	32,0	20,0	4,0	22,15/22,63	26,68/26,81	nature	2500	2500
880619600004000	20,0	28,0	34,0	20,0	4,0	20,15/20,45	28,00/28,45	nature	1000	3000

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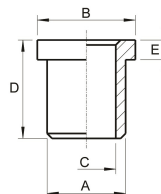
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Bearing bushes with flange

Application: bearing and insulating bushes
Material: polyamide
Standard-Colour: uncoloured

TBB



Order No.	Drilled holeØ	ShaftØ	FlangeØ	Total height	Flange height	Tolerance dimension	Tolerance dimension	Colour	PU*	MOQ**
	C	A	B	D	E	C - min/max	A - min/max			
880619610004000	22,0	28,0	34,0	20,0	4,0	21,70/22,30	27,66/28,34	nature	1000	3000
880619620004000	20,0	30,0	36,0	20,0	3,0	20,15/20,45	30,15/30,45	nature	500	1000
880619630004000	20,0	30,0	36,0	24,0	4,0	20,15/20,45	30,15/30,45	nature	1000	2000
880619640004000	22,0	30,0	36,0	24,0	4,0	22,15/22,45	30,00/30,45	nature	1000	2000
880619650004000	24,0	30,0	36,0	24,0	4,0	24,15/24,59	30,07/30,50	nature	1000	1000
880619660004000	25,0	30,0	36,0	20,0	3,0	25,15/25,45	30,15/30,45	nature	1000	-
880619670004000	25,0	30,0	36,0	24,0	4,0	25,55 / 28,85	30,55 / 30,65	nature	1000	-
880619680004000	22,0	32,0	40,0	24,0	4,0	22,15/22,45	32,15/32,45	nature	500	1500
880619690004000	24,0	32,0	40,0	24,0	4,0	24,15/24,46	32,15/32,45	nature	500	2000
880619700004000	25,0	32,0	40,0	20,0	3,0	25,15/25,45	32,15/32,45	nature	500	1000
880619710004000	25,0	32,0	40,0	24,0	4,0	25,35/25,59	32,15/32,47	nature	500	1500
880619720004000	26,0	32,0	40,0	24,0	4,0	26,20/26,61	32,15/32,56	nature	500	-
880619730004000	28,0	32,0	40,0	24,0	4,0	28,70/28,95	32,62/32,75	nature	500	1500
880619740004000	28,0	32,0	40,0	30,0	4,0	28,70/28,95	32,15/32,45	nature	500	1500
880619750004000	30,0	32,0	40,0	24,0	4,0	30,45/30,87	32,71/32,87	nature	500	2000
880619760004000	30,0	32,0	40,0	30,0	4,0	30,62/31,05	32,57/32,75	nature	500	1000
880619770004000	24,0	35,0	45,0	24,0	4,0	24,15/24,45	34,80/35,07	nature	500	1500
880619780004000	25,0	35,0	45,0	20,0	3,0	25,15/25,45	35,16/35,26	nature	500	1000
880619790004000	25,0	35,0	45,0	24,0	4,0	25,45/25,70	35,10/35,40	nature	500	1000
880619800004000	25,0	35,0	45,0	30,0	4,0	25,15/25,45	35,20/35,60	nature	500	1000
880619810004000	26,0	35,0	45,0	24,0	4,0	26,15/26,45	34,93/35,17	nature	500	1000
880619820004000	28,0	35,0	45,0	24,0	4,0	28,63/28,78	35,14/35,27	nature	500	1000
880619830004000	28,0	35,0	45,0	30,0	4,0	28,60/28,84	35,20/35,60	nature	500	1000
880619840004000	30,0	35,0	45,0	24,0	4,0	30,60/30,80	35,20/35,60	nature	500	1500
880619850004000	30,0	35,0	45,0	30,0	4,0	30,20/30,65	35,20/35,60	nature	500	1500
880619860004000	32,0	35,0	45,0	24,0	4,0	32,71/33,22	35,20/35,71	nature	500	1000
880619870004000	32,0	35,0	45,0	30,0	4,0	32,60/32,95	35,20/35,72	nature	500	2000
880619880004000	25,0	36,0	45,0	24,0	4,0	25,23/25,60	35,88/36,23	nature	500	1000
880619890004000	26,0	36,0	45,0	24,0	4,0	26,15/26,45	36,08/36,60	nature	500	1000
880619900004000	28,0	36,0	45,0	24,0	4,0	28,62/28,78	36,17/36,60	nature	500	1000
880619910004000	30,0	36,0	45,0	24,0	4,0	30,20/30,73	36,20/36,60	nature	500	1500

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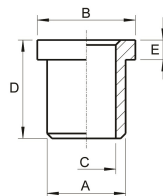
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Bearing bushes with flange

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Material: polyamide
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TBB



Order No.	Drilled hole Ø	Shaft Ø	Flange Ø	Total height	Flange height	Tolerance dimension	Tolerance dimension	Colour	PU*	MOQ**
	C	A	B	D	E	C - min/max	A - min/max			
880619920004000	32,0	36,0	45,0	24,0	4,0	32,60/32,99	36,20/36,75	nature	500	-
880619930004000	26,0	38,0	48,0	24,0	4,0	26,05/26,30	38,20/38,60	nature	500	1000
880619940004000	28,0	38,0	48,0	24,0	4,0	28,20/28,60	38,15/38,45	nature	500	1000
880619950004000	28,0	38,0	48,0	30,0	4,0	28,20/28,60	38,18/38,60	nature	500	1000
880619960004000	30,0	38,0	48,0	24,0	4,0	30,20/30,60	38,20/38,60	nature	500	1000
880619970004000								nature	500	1000
880619980004000								nature	500	1500
880619990004000	32,0	38,0	48,0	24,0	4,0	32,20/32,60	38,20/38,60	nature	500	1500
880620000004000	28,0	40,0	50,0	24,0	4,0	28,20/28,60	40,20/40,60	nature	500	1000
880620010004000	30,0	40,0	50,0	24,0	4,0	30,20/30,60	40,20/40,60	nature	500	1000
880620020004000	32,0	40,0	50,0	24,0	4,0	32,20/32,60	40,20/40,60	nature	500	1000
880620030004000	32,0	40,0	50,0	30,0	4,0	32,20/32,60	40,20/40,60	nature	500	1000
880620040004000	33,0	40,0	50,0	24,0	4,0	33,39/33,70	40,20/40,60	nature	500	1000
880620060004000	36,0	40,0	50,0	24,0	4,0	36,56/36,89	40,20/40,60	nature	500	1000
880620070004000	32,0	44,0	54,0	40,0	5,0	32,46/32,97	44,52/44,92	nature	500	1000
880620080004000	33,0	44,0	54,0	40,0	5,0	33,20/33,66	44,20/44,75	nature	250	1000
880620090004000	36,0	44,0	54,0	40,0	5,0	36,23/36,69	44,20/44,68	nature	250	1000
880620100004000	38,0	44,0	54,0	40,0	5,0	38,23/38,69	44,67/44,92	nature	250	-
880621110004000	40,0	44,0	54,0	40,0	5,0	40,37/40,94	44,44/44,85	nature	250	-
880621120004000	36,0	48,0	58,0	40,0	5,0	36,23/36,69	48,23/48,69	nature	300	900
880621130004000	38,0	48,0	58,0	40,0	5,0	38,23/38,69	48,23/48,74	nature	250	1000
880621140004000	40,0	48,0	58,0	40,0	5,0	40,23/40,69	48,59/48,85	nature	250	1000
880621150004000	42,0	48,0	58,0	40,0	5,0	42,30/42,90	48,23/48,90	nature	250	1000
880621160004000	38,0	50,0	60,0	40,0	5,0	38,23/38,69	50,26/50,69	nature	300	600
880621170004000	40,0	50,0	60,0	40,0	5,0	40,12/40,69	50,15/50,69	nature	250	1000
880621180004000	42,0	50,0	60,0	40,0	5,0	42,30/42,90	50,23/50,80	nature	250	1000
880621190004000	40,0	56,0	70,0	40,0	5,0	40,17/40,69	55,63/56,52	nature	200	600
880621200004000	42,0	56,0	70,0	40,0	5,0	42,10/42,90	56,15/56,90	nature	200	600
880621210004000	45,0	56,0	70,0	40,0	5,0	45,30/45,90	56,20/56,90	nature	300	600
880621220004000	48,0	56,0	70,0	40,0	5,0	48,58/48,93	56,20/56,90	nature	200	1000
880621230004000	50,0	56,0	70,0	40,0	5,0	50,30/51,10	56,30/56,99	nature	200	-

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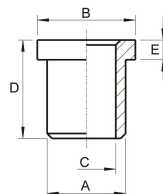
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Bearing bushes with flange

Application: bearing and insulating bushes
Material: polyamide
Standard-Colour: uncoloured

TBB



Order No.	Drilled holeØ	ShaftØ	FlangeØ	Total height	Flange height	Tolerance dimension	Tolerance dimension	Colour	PU*	MOQ**
	C	A	B	D	E	C - min/max	A - min/max			
880621240004000	50,0	56,0	70,0	50,0	5,0	50,60/51,03	56,60/56,90	nature	200	1000
880621250004000	45,0	60,0	70,0	40,0	5,0	45,16/46,08	60,14/61,22	nature	200	400
880621260004000	48,0	60,0	70,0	40,0	5,0	48,30/48,95	60,30/60,90	nature	200	600
880621270004000	50,0	60,0	70,0	40,0	5,0	50,30/50,90	60,30/60,90	nature	200	800
880621280004000	50,0	60,0	70,0	50,0	5,0	50,30/50,90	60,10/60,80	nature	200	800

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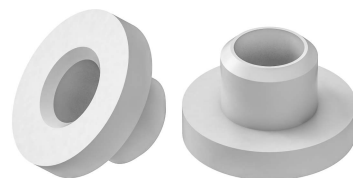
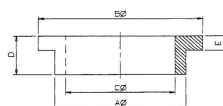
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Insulating bushes

Application: bearing and insulating bushes
Material: polyamide
Standard-Colour: uncoloured

TI



Order No.	Drilled hole Ø	Shaft Ø	Flange Ø	Total height	Flange height	Colour	PU*	MOQ**
	C	A	B	D	E			
880617010004000	1,6	2,9	5,2	3,0	1,0	nature	10000	10000
880617020004000	2,1	2,9	5,2	3,0	1,0	nature	10000	-
880617030004000	1,6	2,9	6,3	3,0	1,0	nature	5000	5000
880617040004000	2,1	2,9	6,3	2,0	0,8	nature	10000	10000
880617050004000	1,6	3,2	5,2	3,0	1,0	nature	10000	10000
880617060004000	2,1	3,2	5,2	3,0	1,0	nature	10000	10000
880617070004000	2,4	3,2	5,2	3,0	1,0	nature	10000	10000
880617080004000	1,6	3,3	6,0	3,0	1,0	nature	10000	10000
880617090004000	2,1	3,3	6,0	2,5	1,0	nature	10000	10000
880617100004000	2,1	3,3	6,0	3,0	1,0	nature	10000	10000
880617110004000	2,4	3,3	6,0	3,0	1,0	nature	10000	10000
880617120004000	2,6	3,3	6,0	3,0	1,0	nature	10000	10000
880617130004000	1,6	3,5	5,1	2,0	0,8	nature	10000	10000
880617140004000	2,1	3,5	5,1	2,0	0,8	nature	10000	10000
880617150004000	2,4	3,5	5,1	2,0	0,8	nature	10000	10000
880617160004000	2,6	3,5	5,1	2,0	0,8	nature	25000	25000
880617170004000	2,8	3,5	5,1	2,0	0,8	nature	10000	10000
880617180004000	2,1	3,5	6,1	2,0	0,8	nature	10000	10000
880617190004000	2,4	3,5	6,1	2,0	0,8	nature	10000	10000
880617200004000	2,6	3,5	6,1	2,0	0,8	nature	10000	10000
880617210004000	2,8	3,5	6,1	2,0	0,8	nature	10000	10000
880617220004000	2,1	3,8	6,1	2,0	0,8	nature	10000	10000
880617230004000	2,4	3,8	6,1	2,0	0,8	nature	10000	10000
880617240004000	2,6	3,8	6,1	2,0	0,8	nature	10000	10000
880617250004000	2,8	3,8	6,1	2,0	0,8	nature	10000	10000
880617260004000	3,1	3,8	6,1	2,0	0,8	nature	10000	10000
880617270004000	2,1	3,9	10,0	3,0	1,3	nature	10000	10000
880617280004000	2,4	3,9	10,0	3,0	1,3	nature	10000	10000
880617290004000	2,6	3,9	10,0	3,0	1,3	nature	10000	10000
880617300004000	2,8	3,9	10,0	3,0	1,3	nature	10000	10000
880617310004000	3,1	3,9	10,0	3,0	1,3	nature	10000	10000

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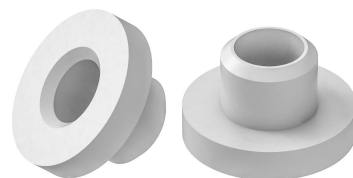
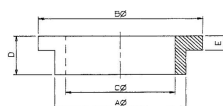
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Insulating bushes

Application: bearing and insulating bushes
Material: polyamide
Standard-Colour: uncoloured

TI



Order No.	Drilled hole Ø	Shaft Ø	Flange Ø	Total height	Flange height	Colour	PU*	MOQ**
	C	A	B	D	E			
880617320004000	2,1	4,0	6,2	3,0	1,3	nature	10000	10000
880617330004000	2,4	4,0	6,2	3,0	1,3	nature	10000	10000
880617340004000	2,6	4,0	6,2	3,0	1,3	nature	10000	10000
880617350004000	3,1	4,0	6,2	3,0	1,3	nature	10000	10000
880617360004000	2,1	4,3	7,4	3,0	1,3	nature	10000	10000
880617370004000	2,4	4,3	7,4	3,0	1,3	nature	10000	10000
880617380004000	2,6	4,3	7,4	3,0	1,3	nature	10000	10000
880617390004000	2,8	4,3	7,4	3,0	1,3	nature	10000	10000
880617400004000	3,1	4,3	7,4	3,0	1,3	nature	10000	10000
880617410004000	3,6	4,3	7,4	3,0	1,3	nature	10000	10000
880617420004000	2,1	4,7	7,9	3,0	1,3	nature	10000	10000
880617430004000	2,4	4,7	7,9	3,0	1,3	nature	10000	10000
880617440004000	2,6	4,7	7,9	3,0	1,3	nature	10000	10000
880617450004000	2,8	4,7	7,9	3,0	1,3	nature	10000	10000
880617460004000	3,1	4,7	7,9	3,0	1,3	nature	10000	10000
880617470004000	3,6	4,7	7,9	3,0	1,3	nature	10000	10000
880617480004000	2,1	4,9	10,0	3,0	1,3	nature	10000	10000
880617490004000	2,4	4,9	10,0	3,0	1,3	nature	10000	10000
880617500004000	2,6	4,9	10,0	3,0	1,3	nature	10000	10000
880617510004000	2,8	4,9	10,0	3,0	1,3	nature	10000	10000
880617520004000	3,1	4,9	10,0	3,0	1,3	nature	10000	10000
880617530004000	3,6	4,9	10,0	3,0	1,3	nature	10000	10000
880617540004000	4,2	4,9	10,0	3,0	1,3	nature	10000	-
880617550004000	2,1	5,5	10,0	3,0	1,3	nature	10000	10000
880617560004000	2,4	5,5	10,0	3,0	1,3	nature	10000	10000
880617570004000	2,6	5,5	10,0	3,0	1,3	nature	10000	10000
880617580004000	2,8	5,5	10,0	3,0	1,3	nature	10000	10000
880617590004000	3,1	5,5	10,0	3,0	1,3	nature	10000	10000
880617600004000	3,6	5,5	10,0	3,0	1,3	nature	10000	10000
880617610004000	4,2	5,5	10,0	3,0	1,3	nature	25000	25000
880617620004000	2,1	5,9	10,0	3,0	1,3	nature	10000	10000

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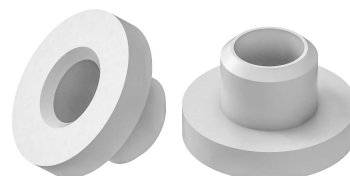
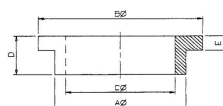
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Insulating bushes

Application: bearing and insulating bushes
Material: polyamide
Standard-Colour: uncoloured

TI



Order No.	Drilled hole Ø	Shaft Ø	Flange Ø	Total height	Flange height	Colour	PU*	MOQ**
	C	A	B	D	E			
880617630004000	2,4	5,9	10,0	3,0	1,3	nature	10000	10000
880617640004000	2,6	5,9	10,0	3,0	1,3	nature	10000	10000
880617650004000	2,8	5,9	10,0	3,0	1,3	nature	10000	10000
880617660004000	3,1	5,9	10,0	3,0	1,3	nature	10000	10000
880617670004000	3,6	5,9	10,0	3,0	1,3	nature	10000	10000
880617680004000	4,2	5,9	10,0	3,0	1,3	nature	10000	10000
880617690004000	5,2	5,9	10,0	3,0	1,3	nature	2500	-
880617700004000	3,1	6,0	8,2	3,0	1,3	nature	10000	10000
880617710004000	3,6	6,0	8,2	3,0	1,3	nature	10000	10000
880617720004000	4,2	6,0	8,2	3,0	1,3	nature	10000	10000
880617730004000	5,2	6,0	8,2	3,0	1,3	nature	10000	10000
880617740004000	3,1	6,3	9,5	3,0	1,3	nature	10000	10000
880617750004000	3,6	6,3	9,5	3,0	1,3	nature	10000	10000
880617760004000	4,2	6,3	9,5	3,0	1,3	nature	10000	10000
880617770004000	5,2	6,3	9,5	3,0	1,3	nature	10000	10000
880617780004000	3,1	6,3	13,0	3,0	1,3	nature	10000	10000
880617790004000	3,6	6,3	13,0	3,0	1,3	nature	10000	10000
880617800004000	4,2	6,3	13,0	3,0	1,3	nature	10000	10000
880617810004000	5,2	6,3	13,0	3,0	1,3	nature	10000	10000
880618010004000	5,1	6,0	15,0	9,4	3,2	nature	10000	10000
880618020004000	3,1	6,9	15,0	3,5	1,5	nature	10000	10000
880618030004000	3,6	6,9	15,0	3,5	1,5	nature	10000	10000
880618040004000	4,2	6,9	15,0	3,5	1,5	nature	10000	10000
880618050004000	5,2	6,9	15,0	3,5	1,5	nature	2500	-
880618060004000	6,2	6,9	15,0	3,5	1,5	nature	10000	-
880618070004000	3,1	7,9	15,0	3,5	1,5	nature	10000	10000
880618080004000	3,6	7,9	15,0	3,5	1,5	nature	10000	10000
880618090004000	4,2	7,9	15,0	3,5	1,5	nature	10000	10000
880618100004000	5,2	7,9	15,0	3,5	1,5	nature	10000	10000
880618110004000	6,2	7,9	15,0	3,5	1,5	nature	10000	-
880618120004000	3,1	8,9	15,0	3,5	1,5	nature	10000	10000

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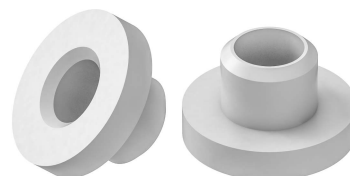
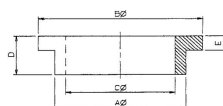
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Insulating bushes

Application: bearing and insulating bushes
Material: polyamide
Standard-Colour: uncoloured

TI



Order No.	Drilled hole Ø	Shaft Ø	Flange Ø	Total height	Flange height	Colour	PU*	MOQ**
	C	A	B	D	E			
880618130004000	3,6	8,9	15,0	3,5	1,5	nature	10000	10000
880618140004000	4,2	8,9	15,0	3,5	1,5	nature	10000	10000
880618150004000	5,2	8,9	15,0	3,5	1,5	nature	10000	10000
880618160004000	6,2	8,9	15,0	3,5	1,5	nature	10000	-
880618170004000	8,2	8,9	15,0	3,5	1,5	nature	10000	-
880618180004000						nature	10000	10000
880618190004000	3,6	9,9	15,0	3,5	1,5	nature	10000	10000
880618200004000	4,2	9,9	15,0	3,5	1,5	nature	10000	10000
880618210004000	5,2	9,9	15,0	3,5	1,5	nature	10000	10000
880618220004000	6,2	9,9	15,0	3,5	1,5	nature	2500	-
880618230004000	8,2	9,9	15,0	3,5	1,5	nature	10000	-
880618240004000	8,2	10,4	18,0	5,0	1,0	nature	10000	-
880618250004000	3,1	10,9	18,0	4,0	1,5	nature	2500	5000
880618260004000	4,2	10,9	18,0	4,0	1,5	nature	10000	10000
880618270004000	5,2	10,9	18,0	4,0	1,5	nature	10000	10000
880618280004000	6,2	10,9	18,0	4,0	1,5	nature	10000	10000
880618290004000	8,2	10,9	18,0	4,0	1,5	nature	10000	10000
880618300004000	10,2	10,9	18,0	4,0	1,5	nature	10000	10000
880618310004000	4,2	11,9	18,0	4,0	1,5	nature	10000	10000
880618320004000	5,2	11,9	18,0	4,0	1,5	nature	10000	10000
880618330004000	6,2	11,9	18,0	4,0	1,5	nature	10000	10000
880618340004000	8,2	11,9	18,0	4,0	1,5	nature	10000	10000
880618350004000	10,2	11,9	18,0	4,0	1,5	nature	10000	-
880618360004000	10,2	12,5	21,0	5,0	1,0	nature	10000	10000
880618370004000	10,2	12,9	19,0	4,0	1,5	nature	10000	-
880618380004000	12,2	13,8	25,0	4,0	2,0	nature	10000	-
880618390004000	12,2	14,8	25,0	4,0	2,0	nature	10000	10000
880618400004000	12,2	15,0	24,0	5,0	1,0	nature	10000	-
880618410004000	12,2	15,8	25,0	4,0	2,0	nature	10000	10000
880618420004000	14,2	15,8	25,0	4,0	2,0	nature	10000	10000
880618430004000	12,2	17,8	25,0	4,0	2,0	nature	10000	10000

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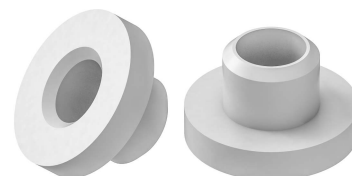
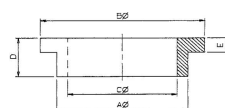
** MOQ: Parts with MOQ, set-up costs may apply.

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Insulating bushes

Application: bearing and insulating bushes
Material: polyamide
Standard-Colour: uncoloured

TI



Order No.	Drilled hole Ø	Shaft Ø	Flange Ø	Total height	Flange height	Colour	PU*	MOQ**
	C	A	B	D	E			
880618440004000	14,2	17,8	25,0	4,0	2,0	nature	10000	-
880618450004000	16,2	17,8	25,0	4,0	2,0	nature	10000	10000
880618460004000	16,2	19,0	23,0	25,0	1,0	nature	2500	5000
880618470004000	3,6	10,9	18,0	4,0	1,5	nature	10000	10000

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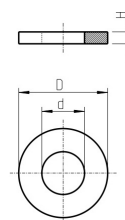
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Spacers

Application: washers / spacers
Material: polyethylene
Standard-Colour: black



Order No.	Outside Ø	Height	Hole Ø	Colour	PU*	MOQ**
	D	H	d			
088150270001000	15	2,0	7,2	black	10000	10000
088150570001000	15	5,0	7,0	black	10000	10000
088150640001000	15	6,0	4,0	black	10000	10000
088150650001000	15	6,0	5,1	black	10000	-
088150660001000	15	6,0	6,1	black	25000	-
088150850001000	15	8,0	5,0	black	10000	10000
088150860001000	15	8,0	6,2	black	1000	-
088185540001000	18	5,5	4,0***	black	10000	10000
088221060001000	22	10,0	6,0	black	5000	-
088250560001000	25	5,0	6,0	black	500	-
088320370001000	32	3,0	7,1	black	5000	5000
088401050001000	40	10,0	5,5	black	1000	-
088401010001000	40	10,0	10,5	black	2000	-

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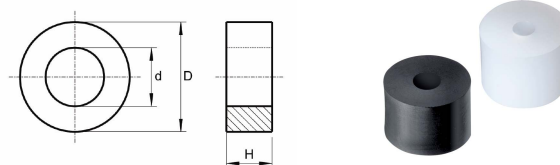
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Spacers

Application: washers / spacers
Additional Info: All measurements also available made of PA 6, Surcharge: respective scale price + 20 %
Material: PE or PA
Standard-Colour: black



Order No.	Outside Ø	Height	Hole Ø	For threads	Colour	PU*	MOQ**
	D	H	d				
880601700001000	6	2,5	3,2	M 3	black	10000	10000
880601720001000	6	3,0	3,2	M 3	black	10000	-
880607280001000	6	3,5	3,2	M 3	black	10000	10000
880601740001000	6	5,0	3,2	M 3	black	10000	10000
880601760001000	6	7,5	3,2	M 3	black	10000	10000
880601780001000	6	10,0	3,2	M 3	black	10000	10000
880601800001000	6	12,5	3,2	M 3	black	10000	10000
880601820001000	6	15,0	3,2	M 3	black	10000	10000
880601840001000	6	17,5	3,2	M 3	black	10000	10000
880601860001000	6	20,0	3,2	M 3	black	10000	10000
880601880001000	6	22,5	3,2	M 3	black	10000	10000
880601900001000	6	25,0	3,2	M 3	black	10000	10000
880601920001000	6	30,0	3,2	M 3	black	10000	10000
880602180001000	8	2,5	3,2	M 3	black	10000	10000
880602200001000	8	3,0	3,2	M 3	black	10000	10000
880602220001000	8	5,0	3,2	M 3	black	10000	10000
880602240001000	8	7,5	3,2	M 3	black	10000	10000
880602260001000	8	10,0	3,2	M 3	black	10000	10000
880602280001000	8	12,5	3,2	M 3	black	10000	10000
880602300001000	8	15,0	3,2	M 3	black	10000	10000
880602320001000	8	17,5	3,2	M 3	black	10000	10000
880602340001000	8	20,0	3,2	M 3	black	10000	10000
880602360001000	8	22,5	3,2	M 3	black	10000	10000
880602380001000	8	25,0	3,2	M 3	black	10000	10000
880602400001000	8	30,0	3,2	M 3	black	10000	10000
880602660001000	8	2,5	4,3	M 4	black	10000	-
880602680001000	8	3,0	4,3	M 4	black	10000	10000
880602700001000	8	5,0	4,3	M 4	black	10000	-
880602720001000	8	7,5	4,3	M 4	black	10000	-
880602740001000	8	10,0	4,3	M 4	black	10000	10000
880602760001000	8	12,5	4,3	M 4	black	10000	10000

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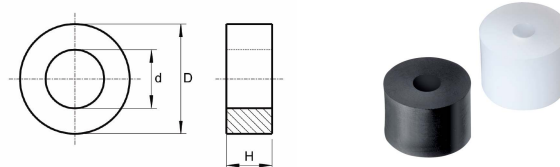
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Spacers

Application: washers / spacers
Material: PE or PA
Standard-Colour: black



Order No.	Outside Ø	Height	Hole Ø	For threads	Colour	PU*	MOQ**
	D	H	d				
880602780001000	8	15,0	4,3	M 4	black	10000	10000
880602800001000	8	17,5	4,3	M 4	black	10000	10000
880602820001000	8	20,0	4,3	M 4	black	10000	10000
880602840001000	8	22,5	4,3	M 4	black	10000	10000
880602860001000	8	25,0	4,3	M 4	black	10000	10000
880602880001000	8	30,0	4,3	M 4	black	10000	10000
880602900001000	8	2,5	5,3	M 5	black	10000	10000
880602920001000	8	3,0	5,3	M 5	black	10000	10000
880602940001000	8	5,0	5,3	M 5	black	10000	10000
880602960001000	8	7,5	5,3	M 5	black	10000	10000
880602980001000	8	10,0	5,3	M 5	black	10000	10000
880603000001000	8	12,5	5,3	M 5	black	10000	10000
880603020001000	8	15,0	5,3	M 5	black	10000	10000
880603040001000	8	17,5	5,3	M 5	black	10000	10000
880603060001000	8	20,0	5,3	M 5	black	10000	10000
880603080001000	8	22,5	5,3	M 5	black	10000	10000
880603100001000	8	25,0	5,3	M 5	black	10000	10000
880603120001000	8	30,0	5,3	M 5	black	10000	10000
880603140001000	10	2,5	5,3	M 5	black	5000	-
880603160001000	10	3,0	5,3	M 5	black	20000	20000
880603180001000	10	5,0	5,3	M 5	black	10000	-
880603200001000	10	7,5	5,3	M 5	black	10000	10000
880603220001000	10	10,0	5,3	M 5	black	10000	-
880603240001000	10	12,5	5,3	M 5	black	10000	10000
880603260001000	10	15,0	5,3	M 5	black	10000	10000
880603280001000	10	17,5	5,3	M 5	black	10000	10000
880603300001000	10	20,0	5,3	M 5	black	10000	10000
880603320001000	10	22,5	5,3	M 5	black	10000	10000
880603340001000	10	25,0	5,3	M 5	black	10000	10000
880603360001000	10	30,0	5,3	M 5	black	5000	5000
880603620001000	12	2,5	5,3	M 5	black	5000	10000

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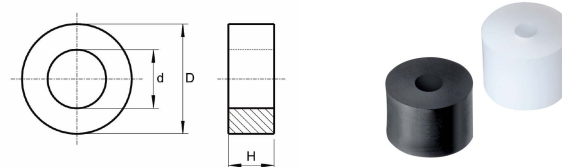
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Spacers

Application: washers / spacers
Material: PE or PA
Standard-Colour: black



Order No.	Outside Ø	Height	Hole Ø	For threads	Colour	PU*	MOQ**
	D	H	d				
880603640001000	12	3,0	5,3	M 5	black	5000	10000
880603660001000	12	5,0	5,3	M 5	black	10000	-
880603680001000	12	7,5	5,3	M 5	black	10000	10000
880603700001000	12	10,0	5,3	M 5	black	10000	-
880603720001000	12	12,5	5,3	M 5	black	10000	10000
880603740001000	12	15,0	5,3	M 5	black	10000	10000
880603760001000	12	17,5	5,3	M 5	black	10000	10000
880603780001000	12	20,0	5,3	M 5	black	10000	10000
880603800001000	12	22,5	5,3	M 5	black	10000	10000
880603820001000	12	25,0	5,3	M 5	black	10000	10000
880603840001000	12	30,0	5,3	M 5	black	5000	5000
880604340001000	15	2,5	5,3	M 5	black	10000	10000
880604360001000	15	3,0	5,3	M 5	black	10000	-
880604380001000	15	5,0	5,3	M 5	black	20000	-
880604400001000	15	7,5	5,3	M 5	black	10000	10000
880604420001000	15	10,0	5,3	M 5	black	10000	-
880604440001000	15	12,5	5,3	M 5	black	10000	10000
880604460001000	15	15,0	5,3	M 5	black	5000	5000
880607320001000	15	16,0	5,3	M 5	black	5000	-
880604480001000	15	17,5	5,3	M 5	black	5000	-
880604500001000	15	20,0	5,3	M 5	black	5000	-
880604520001000	15	22,5	5,3	M 5	black	5000	10000
880604540001000	15	25,0	5,3	M 5	black	5000	5000
880604560001000	15	30,0	5,3	M 5	black	5000	5000
880604640001000	15	5,0	6,3	M 6	black	10000	-
880607300001000	15	6,0	6,3	M 6	black	5000	-
880605320001000	20	2,5	5,3	M 5	black	10000	10000
880605340001000	20	3,0	5,3	M 5	black	10000	10000
880605360001000	20	5,0	5,3	M 5	black	10000	-
880605380001000	20	7,5	5,3	M 5	black	10000	-
880605400001000	20	10,0	5,3	M 5	black	5000	10000

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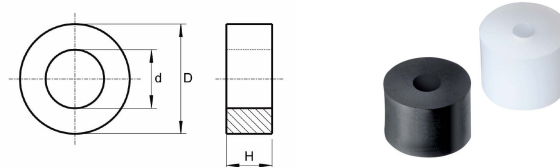
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Spacers

Application: washers / spacers
Material: PE or PA
Standard-Colour: black



Order No.	Outside Ø	Height	Hole Ø	For threads	Colour	PU*	MOQ**
	D	H	d				
880605420001000	20	12,5	5,3	M 5	black	5000	10000
880605440001000	20	15,0	5,3	M 5	black	5000	5000
880605460001000	20	17,5	5,3	M 5	black	5000	-
880605480001000	20	20,0	5,3	M 5	black	2500	7500
880605500001000	20	22,5	5,3	M 5	black	2500	2500
880605520001000					black	2500	2500
880605540001000	20	30,0	5,3	M 5	black	2500	-
880603380001000	10	2,5	6,3	M 6	black	5000	10000
880603400001000	10	3,0	6,3	M 6	black	5000	-
880603420001000	10	5,0	6,3	M 6	black	10000	-
880603440001000	10	7,5	6,3	M 6	black	10000	-
880603460001000	10	10,0	6,3	M 6	black	10000	-
880603480001000	10	12,5	6,3	M 6	black	10000	10000
880603500001000	10	15,0	6,3	M 6	black	10000	10000
880603520001000	10	17,5	6,3	M 6	black	10000	10000
880603540001000	10	20,0	6,3	M 6	black	10000	-
880603560001000	10	22,5	6,3	M 6	black	10000	10000
880603580001000	10	25,0	6,3	M 6	black	10000	10000
880603600001000	10	30,0	6,3	M 6	black	5000	5000
880603860001000	12	2,5	6,3	M 6	black	10000	-
880603880001000	12	3,0	6,3	M 6	black	5000	-
880603900001000	12	5,0	6,3	M 6	black	10000	-
880603920001000	12	7,5	6,3	M 6	black	10000	10000
880603940001000	12	10,0	6,3	M 6	black	20000	20000
880603960001000	12	12,5	6,3	M 6	black	10000	10000
880603980001000	12	15,0	6,3	M 6	black	10000	10000
880604000001000	12	17,5	6,3	M 6	black	10000	10000
880604020001000	12	20,0	6,3	M 6	black	10000	10000
880604040001000	12	22,5	6,3	M 6	black	10000	10000
880604060001000	12	25,0	6,3	M 6	black	10000	10000
880604080001000	12	30,0	6,3	M 6	black	5000	10000

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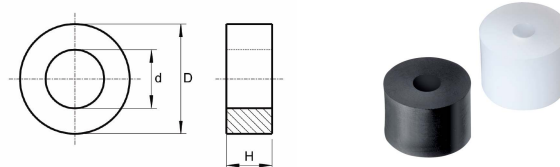
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Spacers

Application: washers / spacers
Material: PE or PA
Standard-Colour: black



Order No.	Outside Ø	Height	Hole Ø	For threads	Colour	PU*	MOQ**
	D	H	d				
880604580001000	15	2,5	6,3	M 6	black	10000	-
880604600001000	15	3,0	6,3	M 6	black	20000	-
880604620001000	15	4,0	6,3	M 6	black	5000	-
880604660001000	15	7,5	6,3	M 6	black	5000	-
880604680001000	15	10,0	6,3	M 6	black	5000	-
880604700001000	15	12,5	6,3	M 6	black	10000	10000
880604720001000	15	15,0	6,3	M 6	black	5000	-
880604740001000	15	17,5	6,3	M 6	black	5000	5000
880604760001000	15	20,0	6,3	M 6	black	5000	-
880604780001000	15	22,5	6,3	M 6	black	5000	5000
880604800001000	15	25,0	6,3	M 6	black	5000	-
880604820001000	15	30,0	6,3	M 6	black	5000	-
880605560001000	20	2,5	6,3	M 6	black	10000	-
880605580001000	20	3,0	6,3	M 6	black	5000	-
880605600001000	20	5,0	6,3	M 6	black	5000	-
880605620001000	20	7,5	6,3	M 6	black	5000	-
880605640001001	20	10,0	6,3	M 6	black	1000	-
880605660001000	20	12,5	6,3	M 6	black	5000	-
880605680001000	20	15,0	6,3	M 6	black	5000	-
880605700001000	20	17,5	6,3	M 6	black	5000	-
880605720001000	20	20,0	6,3	M 6	black	2500	-
880605740001000	20	22,5	6,3	M 6	black	2500	5000
880605760001000	20	25,0	6,3	M 6	black	2500	2500
880605780001000	20	30,0	6,3	M 6	black	2000	-
880604100001000	12	2,5	8,4	M 8	black	5000	10000
880604120001000	12	3,0	8,4	M 8	black	5000	10000
880608130001000	12	4,0	8,4	M 8	black	10000	10000
880604140001000	12	5,0	8,4	M 8	black	10000	-
880604160001000	12	7,5	8,4	M 8	black	10000	-
880604180001000	12	10,0	8,4	M 8	black	10000	-
880604200001000	12	12,5	8,4	M 8	black	10000	10000

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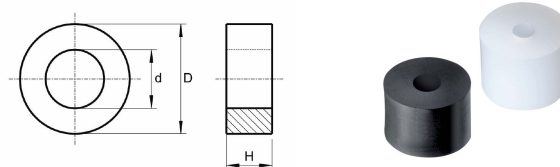
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Spacers

Application: washers / spacers
Material: PE or PA
Standard-Colour: black



Order No.	Outside Ø	Height	Hole Ø	For threads	Colour	PU*	MOQ**
	D	H	d				
880604220001000	12	15,0	8,4	M 8	black	10000	10000
880604240001000	12	17,5	8,4	M 8	black	10000	10000
880604260001000	12	20,0	8,4	M 8	black	10000	-
880604280001000	12	22,5	8,4	M 8	black	10000	-
880604300001000	12	25,0	8,4	M 8	black	10000	10000
880604320001000	12	30,0	8,4	M 8	black	5000	10000
880604840001000	15	2,5	8,4	M 8	black	10000	-
880604860001000	15	3,0	8,4	M 8	black	10000	-
880604880001000	15	5,0	8,4	M 8	black	5000	-
880604900001000	15	7,5	8,4	M 8	black	10000	-
880604920001000	15	10,0	8,4	M 8	black	5000	-
880604940001000	15	12,5	8,4	M 8	black	10000	10000
880604960001000	15	15,0	8,4	M 8	black	5000	-
880604980001000	15	17,5	8,4	M 8	black	5000	10000
880605000001000	15	20,0	8,4	M 8	black	5000	10000
880605020001000	15	22,5	8,4	M 8	black	5000	10000
880605040001000	15	25,0	8,4	M 8	black	5000	5000
880605060001000	15	30,0	8,4	M 8	black	5000	5000
880605800001000	20	2,5	8,4	M 8	black	5000	10000
880605820001000	20	3,0	8,4	M 8	black	5000	-
880605840001000	20	5,0	8,4	M 8	black	5000	-
880605860001000	20	7,5	8,4	M 8	black	10000	-
880605880001000	20	10,0	8,4	M 8	black	5000	-
880605900001000	20	12,5	8,4	M 8	black	5000	-
880605920001001	20	15,0	8,4	M 8	black	500	-
880605940001000	20	17,5	8,4	M 8	black	5000	-
880605960001000	20	20,0	8,4	M 8	black	1000	-
880605980001000	20	22,5	8,4	M 8	black	2500	5000
880606000001000	20	25,0	8,4	M 8	black	2500	-
880606020001000	20	30,0	8,4	M 8	black	2500	-
880606520001000	25	2,5	8,4	M 8	black	10000	-

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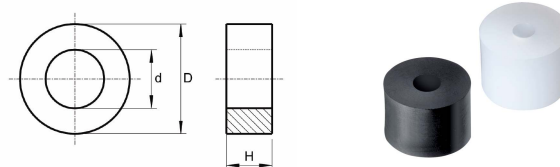
*PU = Packaging Unit, SW = Spanner opening, n.w. = not detachable, o. K. = excl. The head, o. B. = excl. The collar, m. R. = with the radius, MOQ = Minimum Order Quantity.

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Spacers

Application: washers / spacers
Material: PE or PA
Standard-Colour: black



Order No.	Outside Ø	Height	Hole Ø	For threads	Colour	PU*	MOQ**
	D	H	d				
880606540001000	25	3,0	8,4	M 8	black	10000	-
880606560001000	25	5,0	8,4	M 8	black	5000	-
880606580001000	25	7,5	8,4	M 8	black	5000	-
880606600001000	25	10,0	8,4	M 8	black	2500	-
880606620001000	25	12,5	8,4	M 8	black	2500	-
880606640001000	25	15,0	8,4	M 8	black	2500	-
880606660001000	25	17,5	8,4	M 8	black	2500	2500
880606680001000	25	20,0	8,4	M 8	black	2500	-
880606700001000	25	22,5	8,4	M 8	black	2000	4000
880606720001000	25	25,0	8,4	M 8	black	1000	-
880607240001000	25	28,0	8,4	M 8	black	2500	2500
880606740001000	25	30,0	8,4	M 8	black	2000	-
880605080001000	15	2,5	10,5	M 10	black	10000	-
880605100001000	15	3,0	10,5	M 10	black	10000	-
880605120001000	15	5,0	10,5	M 10	black	10000	-
880605140001000	15	7,5	10,5	M 10	black	10000	10000
880605160001000	15	10,0	10,5	M 10	black	5000	-
880605180001000	15	12,5	10,5	M 10	black	10000	-
880605200001000	15	15,0	10,5	M 10	black	5000	-
880605220001000	15	17,5	10,5	M 10	black	5000	5000
880605240001000	15	20,0	10,5	M 10	black	5000	10000
880605260001000	15	22,5	10,5	M 10	black	5000	5000
880605280001000	15	25,0	10,5	M 10	black	5000	10000
880605300001000	15	30,0	10,5	M 10	black	2500	-
880606040001000	20	2,5	10,5	M 10	black	25000	25000
880606060001000	20	3,0	10,5	M 10	black	10000	10000
880606080001000	20	5,0	10,5	M 10	black	5000	-
880606100001000	20	7,5	10,5	M 10	black	10000	-
880606120001000	20	10,0	10,5	M 10	black	5000	-
880606140001000	20	12,5	10,5	M 10	black	5000	5000
880606160001000	20	15,0	10,5	M 10	black	5000	-

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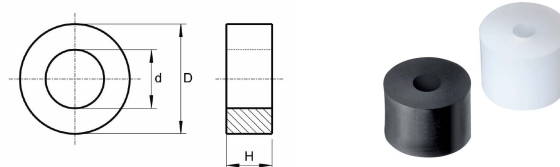
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Spacers

Application: washers / spacers
Material: PE or PA
Standard-Colour: black



Order No.	Outside Ø	Height	Hole Ø	For threads	Colour	PU*	MOQ**
	D	H	d				
880606180001000	20	17,5	10,5	M 10	black	5000	10000
880606200001000	20	20,0	10,5	M 10	black	2500	-
880606220001000	20	22,5	10,5	M 10	black	2500	5000
880606240001000	20	25,0	10,5	M 10	black	2500	-
880606260001000	20	30,0	10,5	M 10	black	2500	-
880606760001000	25	2,5	10,5	M 10	black	10000	10000
880606780001000	25	3,0	10,5	M 10	black	10000	-
880606800001000	25	5,0	10,5	M 10	black	10000	10000
880606820001000	25	7,5	10,5	M 10	black	5000	-
880606840001000	25	10,0	10,5	M 10	black	5000	-
880606860001000	25	12,5	10,5	M 10	black	1000	-
880606880001000	25	15,0	10,5	M 10	black	1000	6000
880606900001000	25	17,5	10,5	M 10	black	2000	4000
880606920001000	25	20,0	10,5	M 10	black	2500	-
880606940001000	25	22,5	10,5	M 10	black	2500	7500
880606960001000	25	25,0	10,5	M 10	black	2000	2000
880606980001000	25	30,0	10,5	M 10	black	1500	-
880606280001000	20	2,5	13,0	M 12	black	10000	10000
880606300001000	20	3,0	13,0	M 12	black	5000	5000
880606320001000	20	5,0	13,0	M 12	black	10000	10000
880606340001000	20	7,5	13,0	M 12	black	10000	-
880606360001000	20	10,0	13,0	M 12	black	5000	10000
880606380001000	20	12,5	13,0	M 12	black	5000	10000
880606400001000	20	15,0	13,0	M 12	black	5000	10000
880606420001000	20	17,5	13,0	M 12	black	5000	5000
880606440001000	20	20,0	13,0	M 12	black	2500	7500
880606460001000	20	22,5	13,0	M 12	black	2500	5000
880606480001000	20	25,0	13,0	M 12	black	1000	-
880606500001000	20	30,0	13,0	M 12	black	2500	-
880607000001000	25	2,5	13,0	M 12	black	10000	10000
880607020001000	25	3,0	13,0	M 12	black	10000	10000

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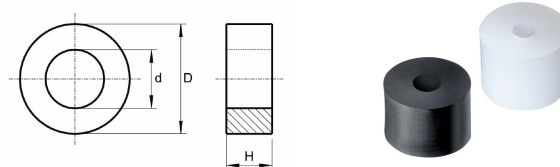
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Spacers

Application: washers / spacers
Material: PE or PA
Standard-Colour: black



Order No.	Outside Ø	Height	Hole Ø	For threads	Colour	PU*	MOQ**
	D	H	d				
880607040001000	25	5,0	13,0	M 12	black	10000	-
880607060001000	25	7,5	13,0	M 12	black	5000	10000
880607080001000	25	10,0	13,0	M 12	black	5000	-
880607100001000	25	12,5	13,0	M 12	black	2000	6000
880607120001000	25	15,0	13,0	M 12	black	2500	-
880607140001000	25	17,5	13,0	M 12	black	2000	6000
880607160001000	25	20,0	13,0	M 12	black	2500	5000
880607180001000	25	22,5	13,0	M 12	black	2500	5000
880607200001000	25	25,0	13,0	M 12	black	2000	4000
880607220001000	25	30,0	13,0	M 12	black	2000	4000

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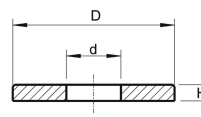
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Washers similar to DIN 125

TU 1

Application: washers / spacers
Material: polyamide
Standard-Colour: uncoloured



Order No.	Outside Ø	Height	Hole Ø	For threads	Colour	PU*	MOQ**
	D	H	d				
880600550004000	6,0	0,5	2,5	M 2,3	nature	5000	50000
880600560004000	6,0	0,5	2,7	M 2,5	nature	5000	-
880600570004000	7,0	0,5	2,8	M 2,6	nature	5000	-
880600580004000	7,0	0,5	3,2	M 3,0	nature	5000	10000
880600590004000	8,0	0,5	3,7	M 3,5	nature	5000	80000
880600600004000	9,0	0,8	4,3	M 4,0	nature	5000	-
880600610004000	10,0	1,0	5,3	M 5,0	nature	5000	-
880600490004000	12,0	1,5	5,4	M 5,0	nature	25000	25000
880600500004000	12,0	1,5	6,5	M 6,0	nature	5000	25000
880600620004000	12,0	1,6	6,4	M 6,0	nature	5000	-
880600630004000	14,0	1,6	7,4	M 7,0	nature	5000	-
880600640004000	16,0	1,6	8,4	M 8,0	nature	5000	-
880600510004000	17,0	2,0	8,6	M 8,0	nature	5000	-
880600650004000	20,0	2,0	10,5	M 10,0	nature	5000	-
880600520004000	21,0	2,5	10,6	M 10,0	nature	5000	20000
880600660004000	28,0	2,5	15,0	M 14,0	nature	1000	-
880600540004000	30,0	3,0	17,0	M 16,0	nature	1000	10000
880600670004000	37,0	3,0	21,0	M 20,0	nature	1000	-
880600680004000	39,0	3,0	23,0	M 22,0	nature	1000	-
880600690004000	44,0	4,0	25,0	M 24,0	nature	1000	-
880600700004000	50,0	4,0	27,0	M 26,0	nature	1000	-
880600710004000	50,0	4,0	28,0	M 27,0	nature	1000	-
880600720004000	50,0	4,0	29,0	M 28,0	nature	10000	10000
880600730004000	56,0	4,0	31,0	M 30,0	nature	1000	-
880600740004000	60,0	5,0	33,0	M 32,0	nature	500	-
880600750004000	60,0	5,0	34,0	M 33,0	nature	1000	1000
880600760004000	66,0	5,0	37,0	M 36,0	nature	500	-
880600780004000	72,0	6,0	40,0	M 39,0	nature	500	-
880600790004000	72,0	6,0	41,0	M 40,0	nature	500	-

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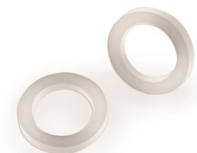
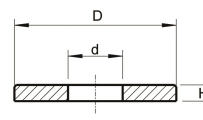
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Washers similar to DIN 433

Application: washers / spacers
Material: polyamide
Standard-Colour: uncoloured

TU 2



Order No.	Outside Ø	Height	Hole Ø	For threads	Colour	PU*	MOQ**
	D	H	d				
880600800004000	6,0	0,5	3,2	M 3,0	nature	5000	-
880600820004000	8,0	0,5	4,3	M 4,0	nature	5000	-
880600830004000	9,0	1,0	5,3	M 5,0	nature	1000	-
880600840004000	11,0	1,6	6,4	M 6,0	nature	2500	-
880600850004000	15,0	1,6	8,8	M 8,0	nature	3000	-
880600860004000	18,0	1,6	10,5	M 10,0	nature	5000	-
880600870004000	20,0	2,0	13,0	M 12,0	nature	1000	-
880600880004000	24,0	2,5	15,0	M 14,0	nature	1000	-
880600890004000	28,0	2,5	17,0	M 16,0	nature	1000	-
880600900004000	30,0	2,5	19,0	M 18,0	nature	1000	-
880600910004000	34,0	3,0	21,0	M 20,0	nature	1000	-

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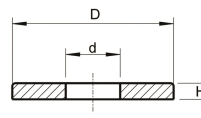
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Washers similar to DIN 9021

TU 3

Application: washers / spacers
Material: polyamide
Standard-Colour: uncoloured



Order No.	Outside Ø	Height	Hole Ø	For threads	Colour	PU*	MOQ**
	D	H	d				
880600920004000	8,0	0,8	2,7	M 2,5	nature	5000	10000
880600930004000	9,0	0,8	3,2	M 3,0	nature	5000	50000
880600950004000	12,0	1,0	4,3	M 4,0	nature	5000	-
880600960004000	15,0	1,2	5,3	M 5,0	nature	5000	-
880600970004000	18,0	1,6	6,4	M 6,0	nature	5000	-
880600990004000	24,0	2,0	8,4	M 8,0	nature	5000	-
880601000004000	30,0	2,5	10,5	M 10,0	nature	1000	-
880601010004000	37,0	3,0	13,0	M 12,0	nature	1000	-
880601020004000	44,0	3,0	15,0	M 14,0	nature	1000	-
880601030004000	50,0	3,0	17,0	M 16,0	nature	1000	-
880601040004000	56,0	4,0	20,0	M 18,0	nature	1000	-
880601050004000	60,0	4,0	22,0	M 20,0	nature	1000	-

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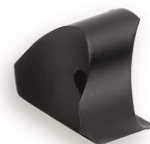
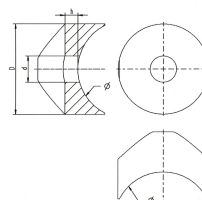
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Double sides spacers

Application: coupling and saddle spacers
Material: polyethylene
Standard-Colour: black



Order No.	Outside Ø	Radius R	Height h	Hole Ø d	Notch for tube Ø	Colour	PU*	MOQ**
980610010001000	11	6,0	2,5	5,2	12,0-14,0	black	5000	5000
980610020001000	15	8,0	7,5	6,2	16,0-20,0	black	5000	5000
980610030001000	15	8,0	10,0	6,2	16,0-20,0	black	5000	5000
980610040001000	15	8,0	12,5	6,2	16,0-20,0	black	5000	5000
980610050001000	15	8,0	15,0	6,2	16,0-20,0	black	5000	5000
980610060001000	15	8,0	17,5	6,2	16,0-20,0	black	5000	5000
980610070001000	17	9,0	2,5	5,2	18,0-20,0	black	5000	5000
980610080001000	17	9,0	2,5	6,2	18,0-20,0	black	5000	5000
980610090001000	19	10,0	3,0	5,2	20,0-23,0	black	5000	5000
980610100001000	19	10,0	3,0	6,2	20,0-23,0	black	5000	5000
980610110001000	19	10,0	11,5	5,2	20,0-23,0	black	5000	5000
980610120001000	19	10,0	11,5	6,2	20,0-23,0	black	5000	5000
980610130001000	22	12,0	3,0	6,2	24,0-26,0	black	5000	5000
980610140001000	22	12,0	3,0	8,2	24,0-26,0	black	5000	5000
980610150001000	22	12,5	3,0	8,2	25,0-28,0	black	5000	5000
980610160001000	22	12,5	5,0	8,2	25,0-28,0	black	2500	5000
980610170001000	22	12,5	7,5	8,2	25,0-28,0	black	2500	2500
980610180001000	22	12,5	10,0	8,2	25,0-28,0	black	2500	2500
980610190001000	22	12,5	12,5	8,2	25,0-28,0	black	2500	2500
980610200001000	22	12,5	15,0	8,2	25,0-28,0	black	2000	2000
980610210001000	22	12,5	17,5	8,2	25,0-28,0	black	2000	2000
980610220001000	22	12,5	20,0	8,2	25,0-28,0	black	2000	2000
980610230001000	22	12,5	22,5	8,2	25,0-28,0	black	2000	2000
980610240001000	22	12,5	25,0	8,2	25,0-28,0	black	2000	2000
980610250001000	22	12,5	27,5	8,2	25,0-28,0	black	2000	2000
980610260001000	22	12,5	30,0	8,2	25,0-28,0	black	2000	2000
980610270001000	25	14,5	3,0	8,2	29,0-32,0	black	2500	2500
980610280001000	25	14,5	5,0	8,2	29,0-32,0	black	2500	2500
980610290001000	25	14,5	7,5	8,2	29,0-32,0	black	2500	2500
980610300001000	25	14,5	10,0	8,2	29,0-32,0	black	2500	2500
980610310001000	25	14,5	12,5	8,2	29,0-32,0	black	2500	2500

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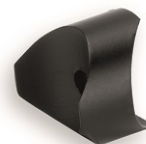
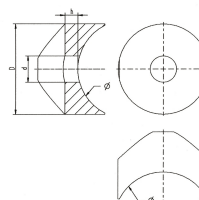
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Double sides spacers

Application: coupling and saddle spacers
Material: polyethylene
Standard-Colour: black



Order No.	Outside Ø	Radius R	Height h	Hole Ø d	Notch for tube Ø	Colour	PU*	MOQ**
980610320001000	25	14,5	15,0	8,2	29,0-32,0	black	2500	2500
980610330001000	25	14,5	17,5	8,2	29,0-32,0	black	2000	2000
980610340001000	25	14,5	20,0	8,2	29,0-32,0	black	2000	2000
980610350001000	25	14,5	22,5	8,2	29,0-32,0	black	2000	2000
980610360001000	25	14,5	25,0	8,2	29,0-32,0	black	2000	2000
980610370001000	25	14,5	27,5	8,2	29,0-32,0	black	2000	2000
980610380001000	25	14,5	30,0	8,2	29,0-32,0	black	1000	1000
980610390001000	28	15,0	3,5	6,2	30,0-34,0	black	2500	2500
980610400001000	28	15,0	3,5	8,2	30,0-34,0	black	2500	2500
980610410001000	28	15,0	3,5	10,2	30,0-34,0	black	2500	2500
980610420001000	35	19,0	5,0	6,2	38,0-42,0	black	2000	2000
980610430001000	35	19,0	5,0	8,2	38,0-42,0	black	2000	2000
980610440001000	35	19,0	5,0	10,2	38,0-42,0	black	2000	2000

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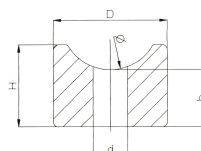
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Saddle spacers

Application: coupling and saddle spacers
Material: polyethylene
Standard-Colour: black



Order No.	Outside Ø	Height H	Height h	Hole Ø d	Notch for tube Ø	Colour	PU*	MOQ**
980607490001000	15	20,0	17,5	6,2	16,0-20,0	black	5000	10000
980607500001000	15	10,0	7,5	6,2	16,0-20,0	black	5000	10000
980607510001000	15	12,5	10,0	6,2	16,0-20,0	black	10000	-
980607520001000	15	15,0	12,5	6,2	16,0-20,0	black	5000	10000
980607530001000	15	17,5	15,0	6,2	16,0-20,0	black	5000	-
098182460001000	18	25,0	17,0	6,7	18,0-20,0	black	500	3000
098231770001000	23	16,0	11,5	6,8	20,0-23,0	black	1000	1000
098231740001000	23	16,0	11,5	4,1***	20,0-23,0	black	5000	5000

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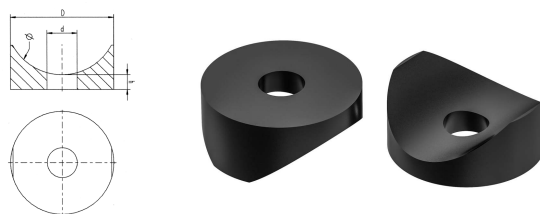
*PU = Packaging Unit, SW = Spanner opening, n.w. = not detachable, o. K. = excl. The head, o. B. = excl. The collar, m. R. = with the radius, MOQ = Minimum Order Quantity.

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Saddle spacers

Application: coupling and saddle spacers
Material: polyethylene
Standard-Colour: black



Order No.	Outside Ø	Radius	Height	Hole Ø	Notch for tube Ø	Colour	PU*	MOQ**
		R	H	d				
980600010001000	11	6,0	2,5	5,2	12,0-14,0	black	10000	10000
980600020001000	15	8,0	7,5	6,2	16,0-20,0	black	10000	10000
980600030001000	15	8,0	10,0	6,2	16,0-20,0	black	10000	-
980600040001000	15	8,0	12,5	6,2	16,0-20,0	black	10000	10000
980600050001000	15	8,0	15,0	6,2	16,0-20,0	black	5000	5000
980600060001000	15	8,0	17,5	6,2	16,0-20,0	black	3000	3000
980600070001000	17	9,0	2,5	5,2	18,0-20,0	black	10000	10000
980600080001000	17	9,0	2,5	6,2	18,0-20,0	black	10000	-
980600090001000	19	10,0	3,0	5,2	20,0-23,0	black	5000	-
980600100001000	19	10,0	3,0	6,2	20,0-23,0	black	10000	-
980600110001000	19	10,0	11,5	5,2	20,0-23,0	black	5000	-
980600120001000	19	10,0	11,5	6,2	20,0-23,0	black	5000	-
980600130001000	22	12,0	3,0	6,2	24,0-26,0	black	10000	10000
980600140001000	22	12,0	3,0	8,2	24,0-26,0	black	10000	-
980600150001000	22	12,5	3,0	8,2	25,0-28,0	black	5000	-
980600160001000	22	12,5	5,0	8,2	25,0-28,0	black	5000	-
980600170001000	22	12,5	7,5	8,2	25,0-28,0	black	2500	2500
980600180001000	22	12,5	10,0	8,2	25,0-28,0	black	2500	-
980600190001000	22	12,5	12,5	8,2	25,0-28,0	black	2500	2500
980600200001000	22	12,5	15,0	8,2	25,0-28,0	black	2500	2500
980600210001000	22	12,5	17,5	8,2	25,0-28,0	black	2000	2000
980600220001000	22	12,5	20,0	8,2	25,0-28,0	black	1000	2000
980600230001000	22	12,5	22,5	8,2	25,0-28,0	black	2500	2500
980600240001000	22	12,5	25,0	8,2	25,0-28,0	black	2500	2500
980600250001000	22	12,5	27,5	8,2	25,0-28,0	black	2000	2000
980600260001000	22	12,5	30,0	8,2	25,0-28,0	black	2000	2000
980600270001000	25	14,5	3,0	8,2	29,0-32,0	black	5000	5000
980600280001000	25	14,5	5,0	8,2	29,0-32,0	black	5000	5000
980600290001000	25	14,5	7,5	8,2	29,0-32,0	black	2500	2500
980600300001000	25	14,5	10,0	8,2	29,0-32,0	black	2500	2500
980600310001000	25	14,5	12,5	8,2	29,0-32,0	black	2500	2500

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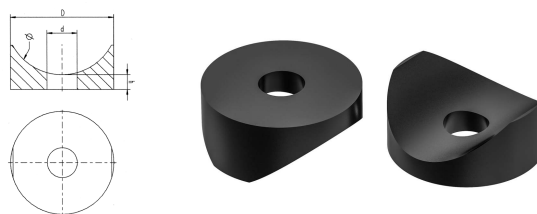
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Saddle spacers

Application: coupling and saddle spacers
Material: polyethylene
Standard-Colour: black



Order No.	Outside Ø	Radius R	Height H	Hole Ø d	Notch for tube Ø	Colour	PU*	MOQ**
980600320001000	25	14,5	15,0	8,2	29,0-32,0	black	2500	2500
980600330001000	25	14,5	17,5	8,2	29,0-32,0	black	2500	2500
980600340001000	25	14,5	20,0	8,2	29,0-32,0	black	1000	2000
980600350001000	25	14,5	22,5	8,2	29,0-32,0	black	2000	2000
980600360001000	25	14,5	25,0	8,2	29,0-32,0	black	2000	2000
980600370001000	25	14,5	27,5	8,2	29,0-32,0	black	1000	1000
980600380001000	25	14,5	30,0	8,2	29,0-32,0	black	1000	1000
980600390001000	28	15,0	3,5	6,2	30,0-34,0	black	5000	-
980600400001000	28	15,0	3,5	8,2	30,0-34,0	black	5000	-
980600410001000	28	15,0	3,5	10,2	30,0-34,0	black	5000	-
980600420001000	35	19,0	5,0	6,2	38,0-42,0	black	2500	-
980600430001000	35	19,0	5,0	8,2	38,0-42,0	black	2500	-
980600440001000	35	19,0	5,0	10,2	38,0-42,0	black	2500	-

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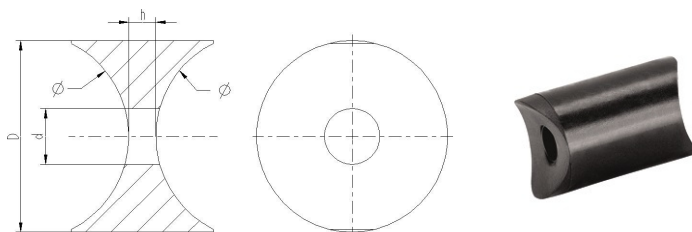
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Saddle spacers

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Material: polyethylene
Standard-Colour: black



Order No.	Outside Ø	Radius	Height	Hole Ø	Notch for tube Ø	Colour	PU*	MOQ**
		R	h	d				
980620010001000	11	6,0	2,5	5,2	12,0-14,0	black	10000	10000
980620020001000	15	8,0	7,5	6,2	16,0-20,0	black	10000	10000
980620030001000	15	8,0	10,0	6,2	16,0-20,0	black	10000	10000
980620040001000	15	8,0	12,5	6,2	16,0-20,0	black	10000	10000
980620050001000	15	8,0	15,0	6,2	16,0-20,0	black	5000	5000
980620060001000	15	8,0	17,5	6,2	16,0-20,0	black	2500	2500
980620070001000	17	9,0	2,5	5,2	18,0-20,0	black	10000	10000
980620080001000	17	9,0	2,5	6,2	18,0-20,0	black	10000	10000
980620090001000	19	10,0	3,0	5,2	20,0-23,0	black	5000	5000
980620100001000	19	10,0	3,0	6,2	20,0-23,0	black	5000	5000
980620110001000	19	10,0	11,5	5,2	20,0-23,0	black	2500	2500
980620120001000	19	10,0	11,5	6,2	20,0-23,0	black	2500	-
980620130001000	22	12,0	3,0	6,2	24,0-26,0	black	5000	5000
980620140001000	22	12,0	3,0	8,2	24,0-26,0	black	5000	5000
980620150001000	22	12,5	3,0	8,2	25,0-28,0	black	5000	5000
980620160001000	22	12,5	5,0	8,2	25,0-28,0	black	5000	5000
980620170001000	22	12,5	7,5	8,2	25,0-28,0	black	5000	5000
980620180001000	22	12,5	10,0	8,2	25,0-28,0	black	5000	5000
980620190001000	22	12,5	12,5	8,2	25,0-28,0	black	2500	2500
980620200001000	22	12,5	15,0	8,2	25,0-28,0	black	2500	2500
980620210001000	22	12,5	17,5	8,2	25,0-28,0	black	2500	2500
980620220001000	22	12,5	20,0	8,2	25,0-28,0	black	2500	2500
980620230001000	22	12,5	22,5	8,2	25,0-28,0	black	2500	2500
980620240001000	22	12,5	25,0	8,2	25,0-28,0	black	2500	2500
980620250001000	22	12,5	27,5	8,2	25,0-28,0	black	2000	2000
980620260001000	22	12,5	30,0	8,2	25,0-28,0	black	2000	2000
980620270001000	25	14,5	3,0	8,2	29,0-32,0	black	2500	2500
980620280001000	25	14,5	5,0	8,2	29,0-32,0	black	2500	2500
980620290001000	25	14,5	7,5	8,2	29,0-32,0	black	2000	4000
980620300001000	25	14,5	10,0	8,2	29,0-32,0	black	2000	4000
980620310001000	25	14,5	12,5	8,2	29,0-32,0	black	2500	2500

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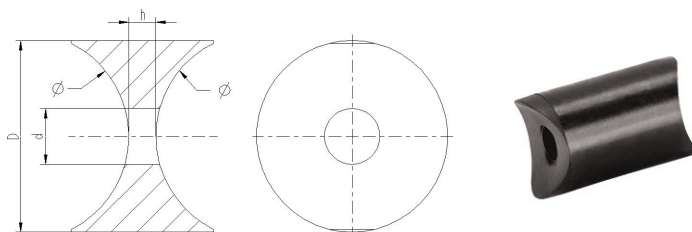
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Saddle spacers

Application: coupling and saddle spacers
Material: polyethylene
Standard-Colour: black



Order No.	Outside Ø	Radius	Height	Hole Ø	Notch for tube Ø	Colour	PU*	MOQ**
		R	h	d				
980620320001000	25	14,5	15,0	8,2	29,0-32,0	black	2000	2000
980620330001000	25	14,5	17,5	8,2	29,0-32,0	black	2000	2000
980620340001000	25	14,5	20,0	8,2	29,0-32,0	black	2000	2000
980620350001000	25	14,5	22,5	8,2	29,0-32,0	black	2000	2000
980620360001000	25	14,5	25,0	8,2	29,0-32,0	black	2000	2000
980620370001000	25	14,5	27,5	8,2	29,0-32,0	black	1000	1000
980620380001000	25	14,5	30,0	8,2	29,0-32,0	black	1000	1000
980620390001000	28	15,0	3,5	6,2	30,0-34,0	black	1000	1000
980620400001000	28	15,0	3,5	8,2	30,0-34,0	black	5000	5000
980620410001000	28	15,0	3,5	10,2	30,0-34,0	black	5000	5000
980620420001000	35	19,0	5,0	6,2	38,0-42,0	black	2500	2500
980620430001000	35	19,0	5,0	8,2	38,0-42,0	black	2500	2500
980620440001000	35	19,0	5,0	10,2	38,0-42,0	black	2500	2500

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