

Piston rod cylinders

● series 167

Ø 25 - 320 mm, double-acting, magnetic piston, adjustable cushioning



1676-021

Standards	ISO 6431:2004
Working pressure min/max	1.5 / 10 bar
Ambient temperature min./max.	-20°C / +75°C
Medium temperature	-20°C / +75°C
Medium	compressed air acc. to ISO 8573-1: 2001
Compressed air class	class 6-4-3, class 5-4-4
Pressure for determining piston forces	6
materials:	
cylinder tube	aluminum, anodized
piston rod	stainless steel, hard chromium plated
End covers	aluminum
Seal	acrylonitrile butadiene caoutchouc

Piston Ø	[mm]	25	32	40	50	63	
Retracted piston force	[N]	230	420	640	990	1680	
Extended piston force	[N]	300	480	760	1180	1860	
Cushioning length	[mm]	11	13,5	15	17	16,5	
Cushioning energy	[J]	1	4,8	9	14,1	28,4	
Weight	0 mm stroke	[kg]	0,27	0,45	0,76	1,1	1,7
	+10 mm stroke	[kg]	0,018	0,021	0,032	0,042	0,054
Stroke max.	[mm]	1500	1500	1600	1600	1700	
Piston Ø	[mm]	80	100	125	160	200	
Retracted piston force	[N]	2720	4230	6840	11300	18100	
Extended piston force	[N]	3000	4680	7320	12100	18800	
Cushioning length	[mm]	19,5	19,5	22	22	24	
Cushioning energy	[J]	54	88	140	220	320	
Weight	0 mm stroke	[kg]	2,5	3,7	6,9	12,5	17,7
	+10 mm stroke	[kg]	0,072	0,1	0,131	0,2	0,249
Stroke max.	[mm]	1700	1700	1700	1700	1700	
Piston Ø	[mm]	250	320				
Retracted piston force	[N]	27600	45200				
Extended piston force	[N]	29500	47850				
Cushioning length	[mm]	22	25				
Cushioning energy	[J]	400	800				
Weight	0 mm stroke	[kg]	34	63			
	+10 mm stroke	[kg]	0,47	0,63			
Stroke max.	[mm]	1700	1700				

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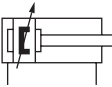
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	Piston Ø Piston rod thread Ports	25 M10x1.25 G 1/8	32 M10x1.25 G 1/8	40 M12x1.25 G 1/4	50 M16x1.5 G 1/4	63 M16x1.5 G 3/8	
	Stroke 25	1670202000	1670302000	1670402000	1670502000	1670602000	
	50	1670205000	1670305000	1670405000	1670505000	1670605000	
	80	1670208000	1670308000	1670408000	1670508000	1670608000	
	100	1670210000	1670310000	1670410000	1670510000	1670610000	
	125	1670212000	1670312000	1670412000	1670512000	1670612000	
	160	1670216000	1670316000	1670416000	1670516000	1670616000	
	200	1670220000	1670320000	1670420000	1670520000	1670620000	
	250	1670225000	1670325000	1670425000	1670525000	1670625000	
	320	-	-	-	1670532000	1670632000	
	400	-	-	-	1670540000	1670640000	
	500	-	-	-	1670550000	1670650000	
		Piston Ø Piston rod thread Ports	80 M20x1,5 G 3/8	100 M20x1,5 G 1/2	125 M27x2 G 1/2	160 M36x2 G 3/4	200 M36x2 G 3/4
	Stroke 25	1670802000	1671002000	-	-	-	-
	50	1670805000	1671005000	-	-	-	-
	80	1670808000	1671008000	-	-	-	-
100	1670810000	1671010000	1671210000	1671610000	1672010000		
125	1670812000	1671012000	1671212000	1671612000	1672012000		
160	1670816000	1671016000	1671216000	1671616000	1672016000		
200	1670820000	1671020000	1671220000	1671620000	1672020000		
250	1670825000	1671025000	1671225000	1671625000	1672025000		
320	1670832000	1671032000	1671232000	1671632000	1672032000		
400	1670840000	1671040000	1671240000	1671640000	1672040000		
500	1670850000	1671050000	1671250000	1671650000	1672050000		
	Piston Ø Piston rod thread Ports	250 M42x2 G 1	320 M48x2 G 1				
Stroke 25	R480076702	R480076702	R480076702				
50	R480076703	R480076703	R480062554				
80	R480054216	R480054216	R480053162				
100	R480055131	R480055131	R480055130				
125	R480069045	R480069045	R480053450				
160	R480054709	R480054709	R480076701				
200	R480054033	R480054033	R480056483				
250	R480053800	R480053800	R480052293				
320	R480053287	R480053287	R480058640				
400	R480051095	R480051095	R480053874				
500	R480051658	R480051658	R480057516				

configurable product



This product is configurable. Please use our configurator at www.boschrexroth.com/pneumatics or contact the nearest Bosch Rexroth sales office.

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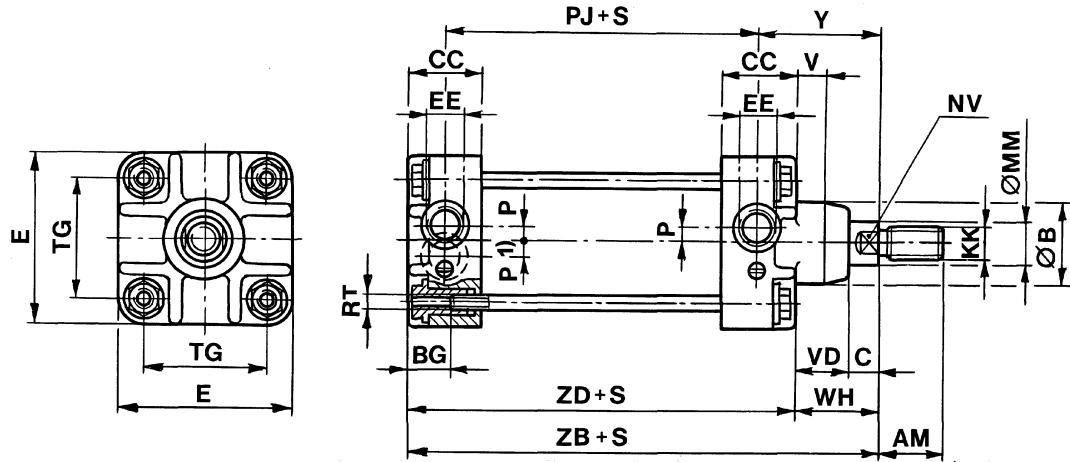
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piston Ø 25 - 200



D167_108_a

S = stroke

P1) = for cylinder Ø 250 and 320 mm

Ø	AM	Ø B h12	BG	C	CC	E	EE	KK	Ø MM	NV	P	PJ	RT
25	22	23	12	8	20,0	40	G 1/8	M10x1,25	12	11	—	58	M5
32	22	25	12	10	27,5	47	G 1/8	M10x1,25	12	11	4	65	M5
40	24	35	15	13	30,0	56	G 1/4	M12x1,25	16	14	4	69	M6
50	32	40	15	15	30,0	63	G 1/4	M16x1,5	20	17	4	72	M6
63	32	40	19	14	34,0	81	G 3/8	M16x1,5	20	17	6	79	M8
80	40	48	19	16	36,0	95	G 3/8	M20x1,5	25	22	9	86	M8
100	40	55	23	16	40,0	115	G 1/2	M20x1,5	25	22	12	100	M10
125	54	60	27	27	46,5	140	G 1/2	M27x2	32	27	13	109	M12
160	72	70	30	36	52,5	180	G 3/4	M36x2	40	36	13	121	M14
200	72	80	31	49	60,5	220	G 3/4	M36x2	40	36	16	129	M16
250	84	95	40	42	57,0	274	G 1	M42x2	63	55	15	136	M20
320	96	98	44	57	57,0	344	G 1	M48x2	63	55	15	156	M24

Ø	TG	TS ¹⁾	V	VD	WH	Y	ZB	ZD					
25	27	+2/-0	—	16	24	31	98 ±1,2	74					
32	32	+2/-0	5	16	26	41	120 ±1,2	94					
40	40	+2/-0	5	20	33	48	132 ±1,2	99					
50	46	+2/-0	6	23	38	54	142 ±1,2	104					
63	59	+2,5/-0	6	27	41	58	154 ±1,4	113					
80	73	+2,5/-0	8	32	48	67	172 ±1,4	124					
100	90	+2,5/-0	8	37	53	70	187 ±1,4	134					
125	110	+2,5/-0	15	38	65	92	225 ±1,4	160					
160	140	+4/-0	15	46	82	113	258 ±1,7	176					
200	175	+4/-0	15	46	95	126	275 ±1,7	180					
250	218	+4/-0	—	63	105	137	305 ±2	200					
320	274	+4/-0	—	63	120	152	340 ±2,5	220					

Note: The external dimensions comply with ISO 6431 and apply to the following versions: standard, low pressure hydraulics, high temperature, modular sealing concept.

1) TS = stroke tolerance

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