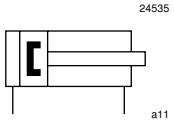
Compact cylinder, Series KPZ

► Ports: M5 - G 1/8 ► double-acting ► with magnetic piston ► Cushioning: elastic ► Piston rod: external thread, Optionally through (hollow) ► ATEX optional ► optionally heat-resistant



Standards	NFE 49004
Compressed air connection	Internal thread
Ambient temperature min./max.	-20°C / +80°C
Medium temperature min./max.	-20°C / +80°C
Medium	Compressed air
Max. particle size	50 μm
Oil content of compressed air	0 mg/m³ - 5 mg/m³
Pressure for determining piston forces	6,3 bar
Materials:	
Cylinder tube	Aluminum, anodized
Piston rod	Stainless steel
Front cover	Aluminum
End cover	Aluminum
Nut for piston rod	Steel, galvanized

Technical Remarks

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of compressed air must remain constant during the life cycle.
- Use only the approved oils from AVENTICS, see chapter „Technical information“.
- ATEX-certified cylinders can be generated in the Internet configurator.
- ATEX ID: II 2G c IIB T4 II 2D c IP65 T125°C X
- The operating temperature range for ATEX-certified cylinders is -20 °C ... 50 °C.
- The material for heat-resistant scraper and seal variants (ambient temperature: -10 °C/120 °C) is fluorocaoutchouc.
- Further options can be generated in the Internet configurator.

Piston Ø	[mm]	16	20	25	32	40
Retracting piston force	[N]	95	148	260	435	720
Extracting piston force	[N]	127	198	309	507	792
Impact energy	[J]	0.15	0.2	0.3	0.5	0.7
Stroke max.	[mm]	300	300	300	300	300
Working pressure min./max.	[bar]	1 - 10	1 - 10	1 - 10	0.6 - 10	0.6 - 10
Scraper material		Polyurethane	Polyurethane	Polyurethane	Polyurethane	Polyurethane
Sealing material		Nitrile butadiene rubber	Nitrile butadiene rubber	Nitrile butadiene rubber	Polyurethane	Polyurethane

Piston Ø	[mm]	50	63	80	100	
Retracting piston force	[N]	1110	1837	2969	4639	
Extracting piston force	[N]	1237	1964	3167	4948	
Impact energy	[J]	1	1.3	1.8	2.5	
Stroke max.	[mm]	300	300	500	500	
Working pressure min./max.	[bar]	0.6 - 10	0.6 - 10	0.6 - 10	0.6 - 10	
Scraper material		Polyurethane	Polyurethane	Polyurethane	Polyurethane	
Sealing material		Polyurethane	Polyurethane	Polyurethane	Polyurethane	

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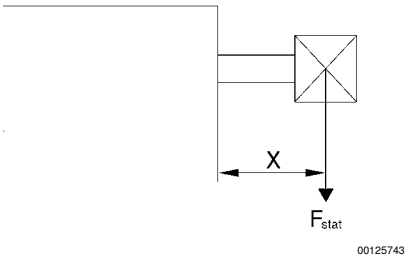
Piston Ø Piston rod thread Ports	16 M8 M5	20 M10x1,25 M5	25 M10x1,25 M5	32 M10x1,25 G 1/8	40 M10x1,25 G 1/8
Stroke 5	0822390200	**0822391200**	0822392200	**0822393200**	**0822394200**
10	**0822390201**	**0822391201**	**0822392201**	**0822393201**	**0822394201**
15	**0822390202**	**0822391202**	**0822392202**	**0822393202**	**0822394202**
20	**0822390203**	**0822391203**	**0822392203**	**0822393203**	**0822394203**
25	**0822390204**	**0822391204**	**0822392204**	**0822393204**	**0822394204**
30	**0822390205**	**0822391205**	**0822392205**	**0822393205**	**0822394205**
40	**0822390206**	**0822391206**	**0822392206**	**0822393206**	**0822394206**
50	**0822390207**	**0822391207**	**0822392207**	**0822393207**	**0822394207**
60	**0822390208**	**0822391208**	**0822392208**	**0822393208**	**0822394208**
80	-	-	-	**0822393209**	**0822394209**
100	-	-	-	**0822393210**	**0822394210**

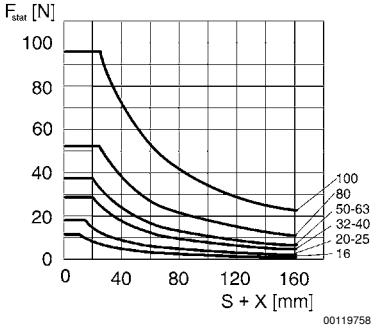
Piston Ø Piston rod thread Ports	50 M12x1,25 G 1/8	63 M12x1,25 G 1/8	80 M16x1,5 G 1/8	100 M20x1,5 G 1/8	
Stroke 5	**0822395200**	0822396200	0822397200	0822398200	
10	**0822395201**	**0822396201**	0822397201	0822398201	
15	**0822395202**	**0822396202**	0822397202	0822398202	
20	**0822395203**	**0822396203**	**0822397203**	0822398203	
25	**0822395204**	**0822396204**	**0822397204**	**0822398204**	
30	**0822395205**	**0822396205**	**0822397205**	0822398205	
40	**0822395206**	**0822396206**	**0822397206**	0822398206	
50	**0822395207**	**0822396207**	**0822397207**	**0822398207**	
60	**0822395208**	**0822396208**	0822397208	**0822398208**	
80	**0822395209**	**0822396209**	**0822397209**	**0822398209**	
100	**0822395210**	**0822396210**	**0822397210**	0822398210	

Configurable product

This product is configurable. Please use our Internet configurator at http://www.aventics.com or contact the nearest AVENTICS sales office.

Maximum permissible lateral force, Static





F stat. = static lateral force
X = spacing between force application point and cylinder cover

S = stroke