R402000989

AVENTICS Series GSU Guided slide units

2024-03-18

Series GSU

AVENTICS Series GSU cylinders are the ideal basis for many handling systems. Stroke length and stroke position can be set variably along the entire length of the guided slide unit – individually from both sides, underscoring the great flexibility during installation. Their very low height and the option of ventilation from one side improve their integration capacity.





Technical data

IndustryIndustrialPiston \emptyset 16 mmStroke500 mmPortsM5

Functional principle Double-acting

Magnetic piston with magnetic piston
Guide mini ball rail guide

Easy2Combine capable
Piston force 127 N
Pressure for determining piston forces 6,3 bar
Cushioning length 10 mm

Cushioning length 10 m Cushioning energy 2.3 J

adjustable end stops adjustable end stops

Cushioning hydraulic

Cushioning non-adjustable

Max. speed1.5 m/sStroke max.1000 mmMin. working pressure1.5 barMax. working pressure8 bar

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Min. ambient temperature	0 °C	
Max. ambient temperature	60 °C	2024-03-18
Max. ambient temperature	00 0	

Medium Compressed air

Min. oil content of compressed air 0 mg/m^3 Max. oil content of compressed air 1 mg/m^3 Max. particle size $5 \mu \text{m}$ Weight +10 mm stroke 0.031 kg Weight 2.71 kg

Material

Material cylinder tube

Surface cylinder tube

Material front cover

Surface cover

Seal material

Material sealing strips

Polyurethane

Stainless Steel

Material guide rail Aluminum Surface ball rail table anodized

Material guide shuttle Stainless Steel
Material guide rail Stainless Steel
Surface guide rail hardened
Part No. R402000989

Technical information

The pressure dew point must be at least 15 °C less than 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. Further information can be found in the "Technical information" document (available in https://www.emerson.com/en-us/support).

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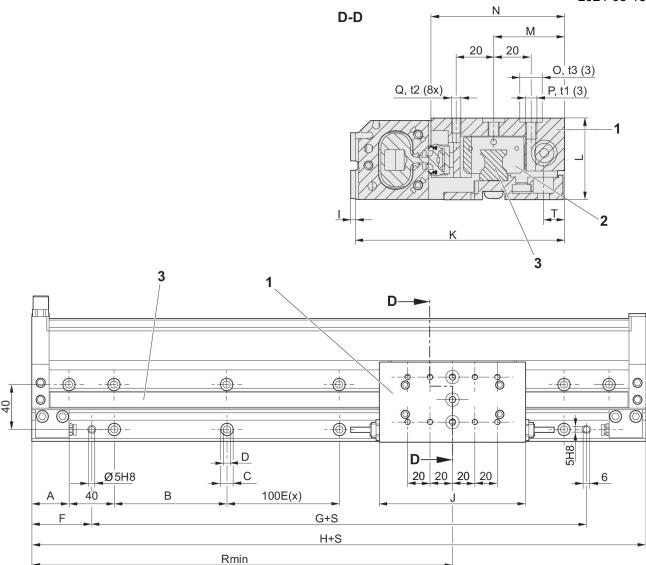
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Dimensions

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S = stroke

Weight [kg]

Piston Ø	Stroke	200	300	400	500	600	700	800	900
16	E(x)	1	2	3	4	5	6	7	8
25	E(x)	1	2	3	4	5	6	7	8

Piston Ø	1000
16	9
25	9



t1, t2 = depth of thread t3 = sinkhole depth
1) Ball rail table

²⁾ Guide shuttle

³⁾ Guide rail

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Piston Ø	А	В	С	D	F	G	Н	I	J
16	25	92	Ø 9,5	Ø 5,5	45	124	214	3.6	110
25	33	100	Ø 11	Ø 6,6	53	140	246	2.5	130

Piston Ø	K	L	М	N	0	t3	Р	t1	Q
16	99	29	33.5	69	Ø 9 H8	2,1 +0,2	M5	9	M4
25	111.65	43.5	37.85	71.15	Ø 12 H8	2,1 +0,2	M6	9	M5

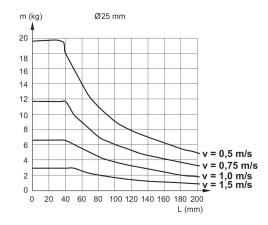
Piston Ø	t2	R 1)	Т
16	8	107	7.5
25	8	123	11.35

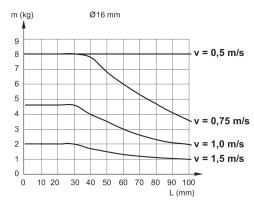
1) Min.

dynamic



 $\ensuremath{\mathsf{L}}$ indicates the distance between the mounting plate center and the center of mass of the attached parts.





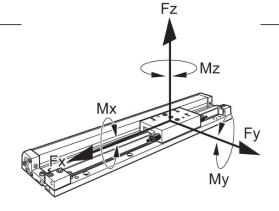
Permissible forces Fx, Fy, Fz and torques Mx, My, Mz

static

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Piston Ø	Fx [N]	Fy [N]	Fz [N]	Mx [Nm]	My [Nm]	Mz [Nm]
16	880	880	1500	20	40	40
25	1070	1070	2500	55	65	65