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 Industry Piston Ø Stroke Ports **Functional principle** Magnetic piston Guide Easy2Combine Piston force Pressure for determining piston forces **Cushioning length** Cushioning energy adjustable end stops Cushioning Cushioning Max. speed Stroke max. Min. working pressure Max. working pressure

Industrial 25 mm 900 mm G 1/8 Double-acting with magnetic piston ball rail guide capable 309 N 6.3 bar 12.5 mm 3.3 J adjustable end stops hydraulic non-adjustable 1.5 m/s 1000 mm 1.5 bar 8 bar



R402001002

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		slide units
Min. ambient temperature	0 °C	2024-03-18
Max. ambient temperature	60 °C	
Medium	Compressed air	
Min. oil content of compressed air	0 mg/m³	
Max. oil content of compressed air	1 mg/m³	
Max. particle size	5 µm	
Weight	6.85 kg	
Material		
Material cylinder tube	Aluminum	
Surface cylinder tube	anodized	
Material front cover	Aluminum	
Surface cover	anodized	
Seal material	Polyurethane	
Material sealing strips	Polyurethane Stainless Steel	
Material guide rail	Aluminum	
Surface ball rail table	anodized	
Material guide shuttle	Steel, chrome-plated	
Material guide rail	Steel, chrome-plated	
Surface guide rail	hardened	
Part No.	R402001002	

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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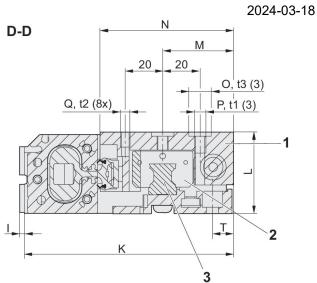
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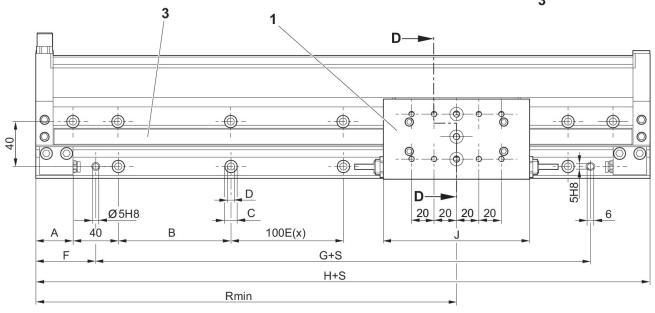


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Dimensions

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S = stroke

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

2) Guide shuttle

3) Guide rail

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



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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	К		М	Ν	0	t3		t1	Q
16	99	29	33.5	69	Ø 9 H8	2,1 +0,2	M5	9	M4

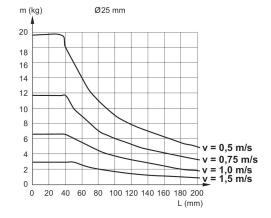
Piston Ø	t2	R 1)	Т
16	8	107	7.5
25	8	123	11.35

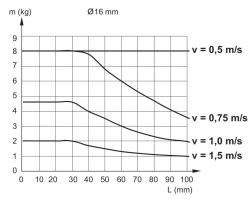
1) Min.





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

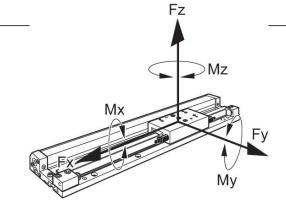
static



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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

