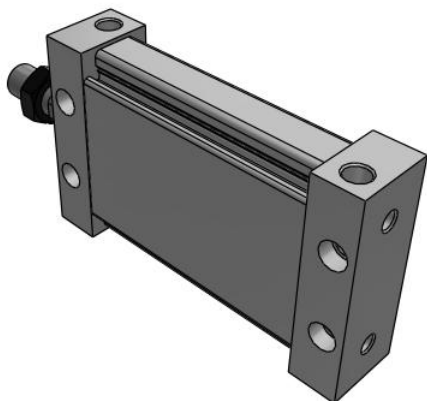




M(D)U Plate Cylinder, Double Acting, Single Rod w/Auto Switch Mounting Groove

MDUB50TF-100DMZ

Datasheet

General series information

- Plate Cylinder, Double Acting, Single Rod.
- Reduced labour when mounting the switch.
- Auto-switch doesn't protrude.
- It's possible to mount the autoswitches in four directions.
- A maximum 62% width reduction.



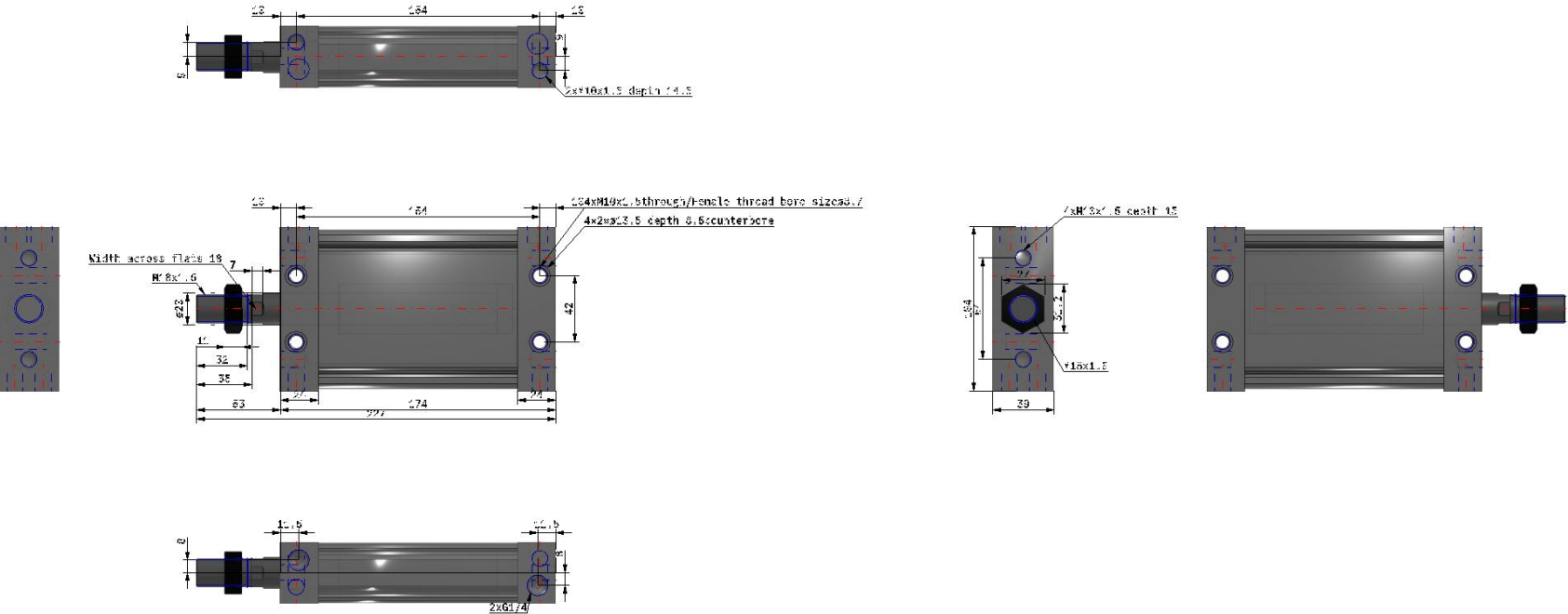
Double-acting, single-rod cylinder

Standard specifications

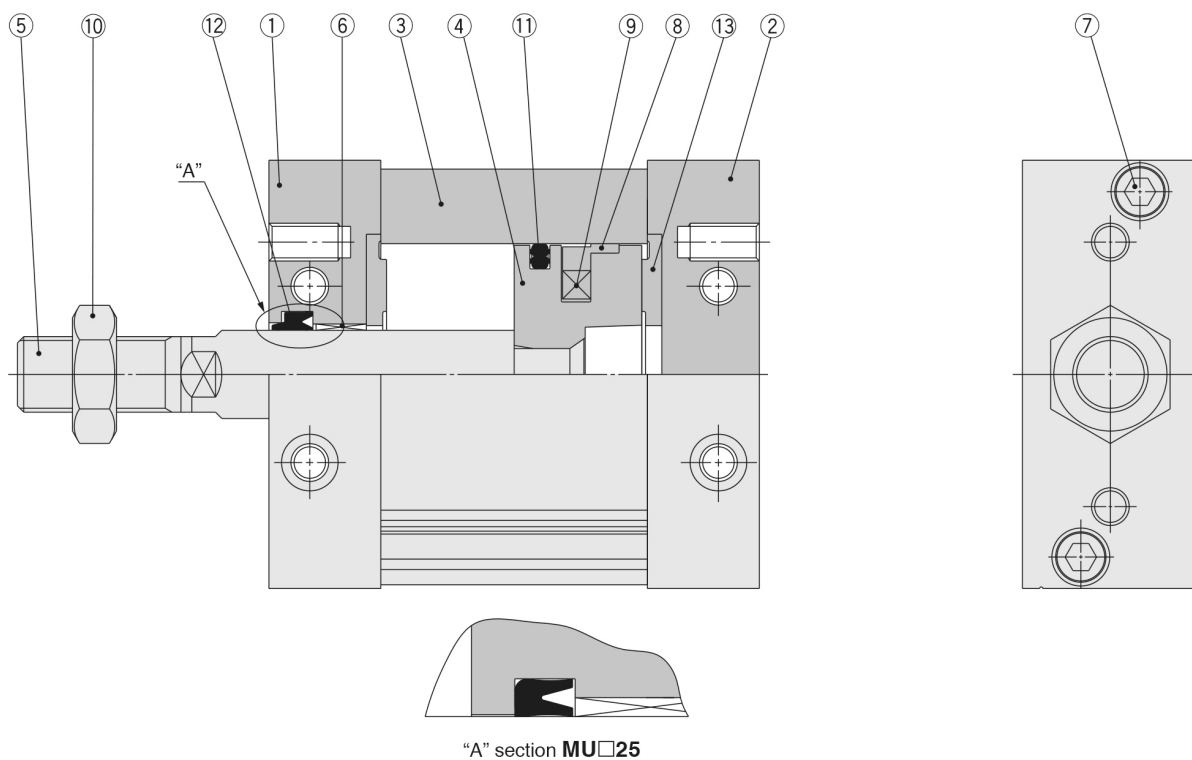
Magnet	D (Built-in)
Mounting	B (Basic)
Size	50 (Equiv. Ø50 Piston Area)
Port Thread Type	TF (G)
Stroke	100
Rod End	M (Male Thread)
Auto Switch	None
Lead Wire or Prewired Connector	0.5m (Or None in the Case of No Switch)
Number	2 pcs. (Or None in the Case of No Switch)
Maximum operating pressure	0.7 MPa
Minimum operating pressure	0.05 MPa
Proof pressure	1.05 MPa
Mode of operation of drive	Double acting
Theoretical cylinder force, advance stroke (at 0.5 MPa)	982 N
Theoretical cylinder force, return stroke (at 0.5 MPa)	824 N
Maximum piston speed	500 mm/s
Type of cushioning	Rubber bumper
Minimum piston speed	50 mm/s

Lubrication	Not required (non-lube)
Allowable rotational torque	1.25 N·m
Maximum ambient and fluid temperature	60 °C
Minimum ambient and fluid temperature	- 10 °C
Fluid	Air
Rod non-rotating accuracy	±0.5°
Stroke length tolerance	+1.4 0
Weight	1.409 Kg

Dimensions



Constructions



Component Parts

No.	Description	Material	Note
1	Rod cover	Aluminum alloy	Anodised
2	Head cover	Aluminum alloy	Anodised
3	Cylinder tube	Aluminum alloy	Hard anodised
4	Piston	Aluminum die-casted	Chromated
5	Piston rod	Carbon steel	Hard chrome plated
6	Bushing	Oil-impregnated sintered alloy	
7	Hexagon socket head bolt	Stainless steel	
8	Wear ring	Resin	
9	Magnet	—	Only built-in magnet type
10	Rod end nut	Rolled steel	Only attached to rod end male thread
11	Piston seal	NBR	
12	Rod seal	NBR	
13	Bumper	Urethane	

Additional information

Catalogue

[MU_EU.pdf](#)