FLAT SWIVEL UNITS SERIES MSF

PRODUCT ADVANTAGES



"The unique"

Decide for yourself!

Flange connection or journal shaft, with or without shock absorbers: The multitude of variants ensure you always find what you need

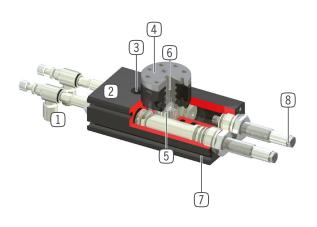
Flat structure

Thanks to the reverse double piston drive, the unit can work in operations requiring flat conditions. This is how you can build your application to save more space

Infinitely adjustable swivel angle

Become flexible and unique with the completely adjustable swivel angle that also reduces set up times

BENEFITS IN DETAIL



1 Air flow control valve

- for speed regulation
- included in scope of delivery

(2) Robust, lightweight housing

- Hard-coated aluminum alloy
- (3) Mounting and positioning
 - mounting possible from several sides for versatile positioning

(4) Tool intake

- with shaft extension or flange available

5 Force transfer

- rack and pinion

(6) Up to 2 way integrated air feed-through

- for hoseless air transfer
- hose package does not have to be pivoted

(7) Sensing slot

- mounting and positioning of magnetic field sensors

8 Integrated shock absorbers with spiral groove technology

- adjustable end position damping



SERIES CHARACTERISTICS

Installation size	Version					
MSFXX	N-F001	S-F001	N-F002	S-F002	N-D2	S-D2
10 million maintenance-free cycles (max.)	•	•	•	•	•	•
IP 41 IP41	•	•	•	•	•	•
Magnetic field sensor	•	•	•	•	•	•
Flange	•	•			•	•
Shaft extension			•	•		
Fluid feed-through					•	•
Elastomer end position damping	•		•		•	
Powerstop end position damping		•		•		•
Positionability - 2 positions	•	•	•	•	•	•
Adjustable swivel angle	•	•	•	•	•	•

► TECHNICAL DATA

	Swivel angle	Torque	Weight	IP class	
Installation size	[°]	[Nm]	[kg]		
MSF34	90-180	0,3 - 0,4	0,17 - 0,21	IP41	
MSF40	90-180	0,6 - 0,7	0,26 - 0,29	IP41	
MSF44	90-180	1 - 1,2	0,41 - 0,46	IP41	

► FURTHER INFORMATION IS AVAILABLE ONLINE



All information just a click away at: www.zimmer-group.com. Find data, illustrations, 3D models and operating instructions for your installation size using the order number for your desired product. Quick, clear and always up-to-date.

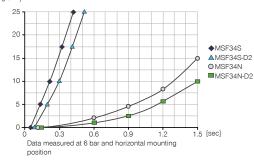
FLAT SWIVEL UNITS INSTALLATION SIZE MSF34

▶ PRODUCT SPECIFICATIONS



Moment of inertia

[kg cm²] Shows the expected swivel time vs the calculated moment of inertia



► INCLUDED IN DELIVERY



2 [piece]

Flow Control Valves - with Swivel joint

DRVM3X4



2 [piece] Centering Disc

DST40800

RECOMMENDED ACCESSORIES



ENERGY SUPPLY



SENSORS



GVM3

Straight Fittings - Barb Style Connection



MFS02-S-KHC-P2-PNP

2-point sensor straight, cable 0.3 m - M8 connector



DSV1-8

Pressure safety valve



CONNECTIONS / OTHER



DSV1-8E

Pressure safety valve with quick exhaust



KAG500

Plug-in connector Straight Cable 5m - Socket M8 (female)



SENSORS



KAW500

Plug-in connector Angled Cable 5m - Socket M8 (female)



MFS01-S-KHC-P1-PNP

Magnetic field sensor angled, cable 0.3 m - M8 connector



Plug-in connector customizable Straight - Connec-



MFS02-S-KHC-P1-PNP

Magnetic field sensor straight, cable 0.3 m - M8



S12-G-3

Plug-in connector customizable Straight - Connector M12



MFS01-S-KHC-P2-PNP

2-point sensor angled, cable 0.3 m - M8 connector

	Technical data						
Order no.	MSF34N-F001	MSF34S-F001	MSF34N-F002	MSF34S-F002	MSF34N-D2	MSF34S-D2	
Swivel angle [°]	90-180	90-180	90-180	90-180	90-180	90-180	
Torque [Nm]	0.4	0.4	0.4	0.4	0.3	0.3	
End position damping by	Elastomer	PowerStop	Elastomer	PowerStop	Elastomer	PowerStop	
Tool holder via	Flange	Flange	Shaft extension	Shaft extension	Flange	Flange	
Repetition accuracy +/- [°]	0.07	0.01	0.07	0.01	0.07	0.01	
Pneumatic energy transfer [Quantity]					2	2	
Axial bearing load [N]	215	215	215	215	215	215	
Radial bearing load [Nm]	5.5	5.5	5.5	5.5	5.5	5.5	
Operating pressure min. [bar]	3	3	3	3	3	3	
Operating pressure max. [bar]	8	8	8	8	8	8	
Nominal operating pressure [bar]	6	6	6	6	6	6	
Operating temperature min. [°C]	5	5	5	5	5	5	
Operating temperature max. [°C]	+80	+80	+80	+80	+80	+80	
Air volume per cycle 90° [cm³]	3	3	3	3	3	3	
Air volume per cycle 180° [cm³]	6	6	6	6	6	6	
Weight [kg]	0.17	0.18	0.17	0.18	0.2	0.21	

