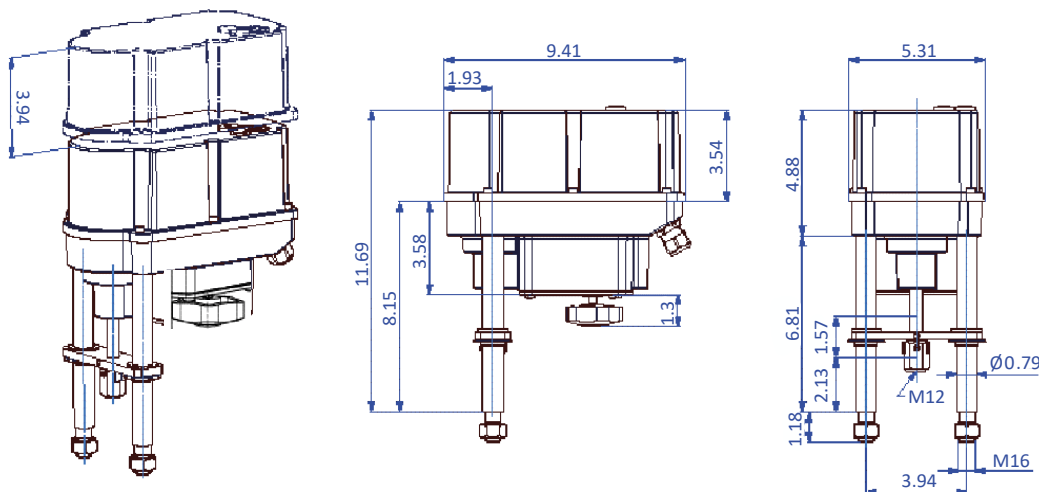


Explosion-Proof Linear Actuator with mechanical failsafe function



Approx. weight: 14.8 lb without accessories

PSF-M-EX

Manual Override

449 lbf
Max. Thrust¹

50.8 - 25.4 Secs/In.
Stroke speed

0.19 - 1.57 In. / 1.97
Stroke

**Positioner
integrated**

Actuator
Class C
acc. EN ISO 22153

Enclosure IP65
EN 60529

Stroke Speed		50.8 / 33.9 / 25.4 Sec/In. (adjustable)		PSF-M401-EX 1 kN
Device category		II 2G II 2D		
EU Type Examination Certificate		TPS 22 ATEX 110398 0002 X		
ATEX directive gases		Ex db eb IIC T6/T4 Gb Ex h db eb IIC T6/T4 Gb		
ATEX directive dusts		Ex tb IIIC T80°C/T100°C Db Ex h tb IIIC T80°C/T100°C Db		
IECEX CoC		IECEX TPS 22.0019X		
IECEX directive gases		Ex db eb IIC T6/T4 Gb		
IECEX directive dusts		Ex tb IIIC T80°C/T100°C Db		
Power Supply	[V]	100-240 VAC 1~	24 VAC/DC	
Frequency	[Hz]	50 - 60	50 - 60	
Nominal Current	[A]	0.08 - 0.15	0.8 / 0.4	
Maximum Current	[A]	0.08 - 0.15	0.8 / 0.4	
Power Consumption)²	[W]	10	10 / 9	
Duty Cycle	IEC 60034-1,8	S2 30 min / S4 50% ED - 1200c/h		

Stroke Speed		50.8 / 33.9 / 25.4 Sec/In. (adjustable)		PSF-M402-EX 2 kN
Device category		II 2G II 2D		
EU Type Examination Certificate		TPS 22 ATEX 110398 0002 X		
ATEX directive gases		Ex db eb IIC T6/T4 Gb Ex h db eb IIC T6/T4 Gb		
ATEX directive dusts		Ex tb IIIC T80°C/T100°C Db Ex h tb IIIC T80°C/T100°C Db		
IECEx CoC		IECEx TPS 22.0019X		
IECEx directive gases		Ex db eb IIC T6/T4 Gb		
IECEx directive dusts		Ex tb IIIC T80°C/T100°C Db		
Power Supply	[V]	100-240 VAC 1~	24 VAC/DC	
Frequency	[Hz]	50 - 60	50 - 60	
Nominal Current	[A]	0.1 - 0.2	1.0 / 0.5	
Maximum Current	[A]	0.1 - 0.2	1.0 / 0.5	
Power Consumption)²	[W]	13	13 / 11	
Duty Cycle	IEC 60034-1,8	S2 30 min / S4 50% ED - 1200c/h		

¹ = permissible average force over the entire travel is 50% of the max. thrust

² = at max. thrust

Stroke Speed		50.8 / 33.9 / 25.4 Sec/In. (adjustable)	
Device category		II 2G II 2D	
EU Type Examination Certificate		TPS 22 ATEX 110398 0002 X	
ATEX directive gases		Ex db eb IIC T6/T4 Gb Ex h db eb IIC T6/T4 Gb	
ATEX directive dusts		Ex tb IIIC T80°C/T100°C Db Ex h tb IIIC T80°C/T100°C Db	
IECEX CoC		IECEX TPS 22.0019X	
IECEX directive gases		Ex db eb IIC T6/T4 Gb	
IECEX directive dusts		Ex tb IIIC T80°C/T100°C Db	
Power Supply	[V]	100-240 VAC 1~	24 VAC/DC
Frequency	[Hz]	50 - 60	50 - 60
Nominal Current	[A]	0.22 - 0.44	1.8 / 1.1
Maximum Current	[A]	0.22 - 0.44	1.8 / 1.2
Power Consumption) ²	[W]	30	30 / 28
Duty Cycle	IEC 60034-1,8	S2 30 min / S4 50% ED - 1200c/h	

PSF-M405-EX

5 kN

Standard	Description
Ambient Temperature [°F]	4°F ≤ Ta ≤ +104°F (T6) /+140°F (T4)
Motor Protection	electronic motor current monitoring with safety cut-off
Overvoltage Category	II
Set Value and Feedback	0-20 mA, 4-20 mA, 0-10 V, 2-10 V selectable
Binary Control	24 - 230 VAC & 24 VDC for ON/OFF service
Valve Positioner Function	integrated, deadband 0.6% of full signal range, shut-off minimum
Automatic Start-up	Recognizing the end position(s) and autoscaling set and feedback values
Internal Fault Monitoring	torque, set value, temperature, power supply
Cable Glands	2 pcs. ISO M20 x 1.5 and 1 pcs. ISO M16 x 1.5

Standard

Equipment

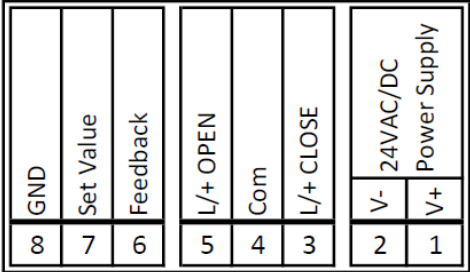
)¹ = permissible average thrust over the entire travel
)² = at max. thrust

PSF-M-EX

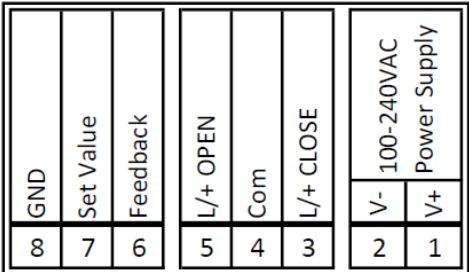
Technical Data

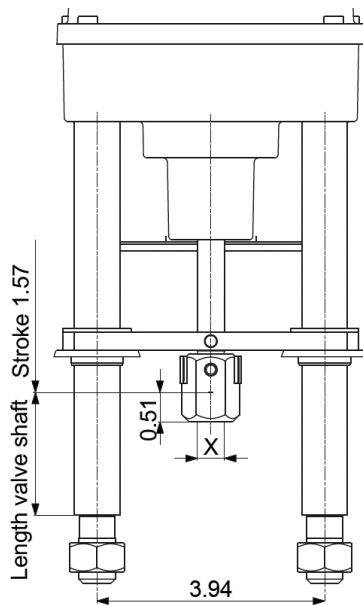
Wiring Diagram

24V AC/ DC



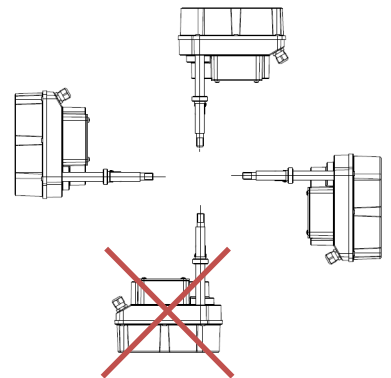
100-240V AC



Valve ConnectionConnection Thread X

M8	Optional
M10	Optional
M12	Standard

Fine threads and other sizes on request!

Mounting PositionAccessories / Options

Higher Enclosure	IP	Higher Enclosure to IP 67
Diagnose-Kit		Diagnosis-Kit PSF including Software and USB Data Cable

For more information and accessories, please visit our website www.ps-automation.com!