

Operating speed		0.5 / 0.75 / 1.0 mm/s (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	[°C] -10°C ≤ Ta ≤ +40°C (T6) / +60°C (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 force over the entire travel
² = at max. force

PSF-M-EX

Technical Data

Electrical Connection Plan

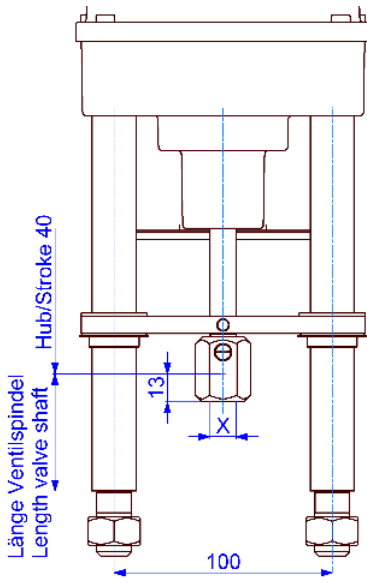
24V AC/ DC

GND	Set Value	Feedback	L/+ OPEN	Com	L/+ CLOSE	24VAC/DC Power Supply	
8	7	6	5	4	3	V-	V+
						2	1

100-240V AC

GND	Set Value	Feedback	L/+ OPEN	Com	L/+ CLOSE	100-240VAC Power Supply	
8	7	6	5	4	3	V-	V+
						2	1

Valve Connection

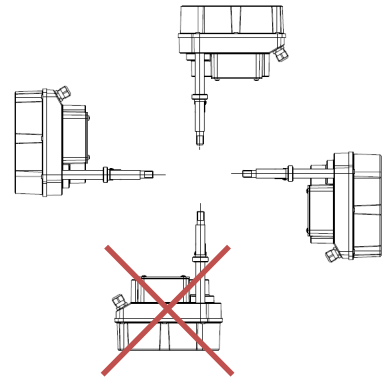


Connection Thread X

M8	Optional
M10	Optional
M12	Standard

Fine threads and other sizes on request!

Mounting Position



Accessories / 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!