Part number: 8126417



General operating condition

Data sheet

Overall data sheet – Individual values depend upon your configuration.

Piston rod thread M20x1.5 M12 Cushioning Elastic cushioning rings/pads at both ends Self-adjusting pneumatic end-position cushioning Pneumatic cushioning, adjustable at both ends Mounting position Any Piston rod end External thread Internal thread Internal thread Structural design Piston rod Cylinder barrel Position sensing For proximity sensor Variants Extended external thread piston rod Internal thread on piston rod Internal thread on piston rod Special thread on piston rod Bearing cover without mounting thread Lateral supply port Through piston rod Piston rod at one end Operating pressure O.1 MPa 1 MPa Mode of operation CE marking (see declaration of conformity) Explosion protection certification outside the EU EPL Db (6B) EPL Db (ERLEX) Zone 2 (ATEX) Zone 2 (A	Feature	Value
Piston rod thread M20x1.5 M12 Cushioning Elastic cushioning rings/pads at both ends Self-adjusting pneumatic end-position cushioning Pneumatic cushioning, adjustable at both ends Mounting position Any Piston rod end External thread Internal thread Internal thread Structural design Piston Piston rod Cylinder barrel Position sensing For proximity sensor Extended external thread piston rod Internal thread on piston rod Special thread on piston rod Special thread on piston rod Barring cover without mounting thread Lateral supply port Through piston rod Piston rod at one end Operating pressure O.1 MPa 1 MPa Double-acting CE marking (see declaration of conformity) as per EU explosion protection directive (ATEX) UKCA marking (see declaration of conformity) acc. to UK EX instructions Explosion protection certification outside the EU EPL Db (GB) EPL Cb (GB) EPL Cb (GB) EPL	Stroke	1 mm 500 mm
Cushioning Elastic cushioning rings/pads at both ends Self-adjusting pneumatic end-position cushioning Pneumatic cushioning, adjustable at both ends Mounting position Any Piston rod end External thread Internal thread Internal thread Structural design Piston or Cylinder barrel Position sensing For proximity sensor Variants Extended external thread piston rod Internal thread on piston rod Special thread on piston rod Extended piston rod Extended piston rod Bearing cover without mounting thread Lateral supply port Through piston rod Piston rod at one end Operating pressure O.1 MPa 1 MPa Mode of operation CE marking (see declaration of conformity) Explosion protection certification outside the EU EXPLOSION prevention and protection Explosion prevention and protection Zone 1 (ATEX) Zone 2 (ATEX) Zone 2 (ATEX) Zone 21 (MEX) Zone 21 (MIX) Zone 21 (MI	Piston diameter	100 mm
Self-adjusting pneumatic end-position cushioning Pneumatic proposition cushioning Any Piston rod end External thread Internal thread piston rod Cylinder barrel Position sensing For proximity sensor Variants Extended external thread piston rod Internal thread on piston rod Special thread on piston rod Extended piston rod Bearing cover without mounting thread Lateral supply port Through piston rod Piston rod at one end Operating pressure O.1 MPa 1 MPa Mode of operation Double-acting CE marking (see declaration of conformity) as per EU explosion protection directive (ATEX) UKCA marking (see declaration of conformity) acc. to UK EX instructions Explosion protection certification outside the EU EPL Db (GB) Explosion protection certification outside the EU EPL (b (GB) Explosion protection certification outside the EU EPL (b (GB) EXPLOSION prevention and protection Zone 1 (ATEX) Zone 2 (ATEX) Zone	Piston rod thread	
Piston rod end External thread Internal thread Structural design Piston Piston rod Cylinder barrel Position sensing For proximity sensor Variants Extended external thread piston rod Internal thread on piston rod Special thread on piston rod Special thread on piston rod Extended piston rod Bearing cover without mounting thread Lateral supply port Through piston rod Piston rod Piston rod at one end Operating pressure O.1 MPa 1 MPa Mode of operation CE marking (see declaration of conformity) Bas per EU explosion protection directive (ATEX) UKCA marking (see declaration of conformity) acc. to UK EX instructions Explosion protection certification outside the EU EPL Db (GB) EPL Db (GB) EPL Gb (GB) EXPLOSION prevention and protection Zone 1 (ATEX) Zone 2 (ATEX) Zone 2 (ATEX) Zone 21 (WEX) Zone 21 (WEX) Zone 22 (ATEX) ATEX category gas II 2G ATEX category for dust II 2D Type of (ignition) protection for gas Ex h IIC T120°C Db Explosion ambient temperature -20°C ← Ta ← +60°C	Cushioning	Self-adjusting pneumatic end-position cushioning
Internal thread Structural design Piston Piston rod Cylinder barrel Position sensing For proximity sensor Variants Extended external thread piston rod Internal thread on piston rod Special thread on piston rod at one end Operation Cet marking (see declaration of conformity) as per EU explosion protection directive (ATEX) UKCA marking (see declaration of conformity) as per EU explosion protection directive (ATEX) UKCA marking (see declaration of conformity) as per EU explosion protection directive (ATEX) UKCA marking (see declaration of conformity) as per EU explosion protection directive (ATEX) UKCA marking (see declaration of conformity) as per EU explosion protection directive (ATEX) UKCA marking (see declaration of conformity) as per EU explosion protection directive (ATEX) UKCA marking (see declaration of conformity) as per EU explosion protection directive (ATEX) UKCA marking (see declaration of conformity) as per EU explosion protection directive (ATEX) UKCA marking (see declaration of conformity) as per EU explosion protection directive (ATEX) UKCA marking (see declarati	Mounting position	Any
Piston rod Cylinder barrel Position sensing For proximity sensor Variants Extended external thread piston rod Internal thread on piston rod Special thread on piston rod Bearing cover without mounting thread Lateral supply port Through piston rod of Piston rod at one end Operating pressure O.1 MPa 1 MPa Mode of operation CE marking (see declaration of conformity) as per EU explosion protection directive (ATEX) Auxiliary Explosion protection certification outside the EU EPL Db (GB) Explosion prevention and protection Zone 1 (ATEX) Zone 1 (UKEX) Zone 2 (ATEX) Zone 21 (UKEX) Zone 21 (STEX) ZO	Piston rod end	
Extended external thread piston rod Internal thread on piston rod Special thread on piston rod Special thread on piston rod Extended piston rod Bearing cover without mounting thread Lateral supply port Through piston rod Piston rod at one end Operating pressure O,1 MPa 1 MPa Mode of operation CE marking (see declaration of conformity) Bacc. to UK EX instructions Explosion protection certification outside the EU EPL Db (GB) EPL Bb (GB) EPL Bb (GB) EPL Bc (GB) Explosion prevention and protection Zone 1 (ATEX) Zone 2 (ATEX) Zone 2 (ATEX) Zone 21 (MEX) Zone 21 (MEX) Zone 21 (MEX) Zone 22 (ATEX) ATEX category gas ATEX category gas ATEX category for dust II 2D Type of ignition protection for gas Ex h IIC T120°C Db Explosive ambient temperature -20°C <= Ta <= +60°C	Structural design	Piston rod
Internal thread on piston rod Special thread on piston rod Extended piston rod Bearing cover without mounting thread Lateral supply port Through piston rod Piston rod at one end Operating pressure O.1 MPa 1 MPa Mode of operation CE marking (see declaration of conformity) as per EU explosion protection directive (ATEX) UKCA marking (see declaration of conformity) acc. to UK EX instructions Explosion protection certification outside the EU EPL Db (GB) EPL Cb (GB) EPL Gb (GB) EPL Gb (GB) EXPLOSION prevention and protection Zone 1 (ATEX) Zone 2 (ATEX) EXPLOSION protection for gas EX h II C T4 Gb Explosive ambient temperature II 20°C ← Ta ← +60°C	Position sensing	For proximity sensor
Mode of operation Double-acting CE marking (see declaration of conformity) as per EU explosion protection directive (ATEX) UKCA marking (see declaration of conformity) acc. to UK EX instructions Explosion protection certification outside the EU EPL Db (GB) EPL Gb (GB) Explosion prevention and protection Zone 1 (ATEX) Zone 1 (UKEX) Zone 21 (ATEX) Zone 21 (ATEX) Zone 21 (UKEX) Zone 21 (UKEX) Zone 22 (ATEX) ATEX category gas II 2G ATEX category for dust II 2D Type of ignition protection for gas Ex h IIC T4 Gb Type of (ignition) protection for dust Ex h IIIC T120°C Db Explosive ambient temperature -20°C <= Ta <= +60°C	Variants	Internal thread on piston rod Special thread on piston rod Extended piston rod Bearing cover without mounting thread Lateral supply port Through piston rod
ATEX category gas ATEX category for dust Type of ignition protection for ods Explosion of conformity) as per EU explosion protection directive (ATEX) acc. to UK EX instructions EPL Db (GB) EPL Gb (GB) EPL Gb (GB) EPL Gb (GB) EVERTIFICATION Zone 1 (ATEX) Zone 1 (UKEX) Zone 2 (ATEX) Zone 21 (UKEX) Zone 21 (UKEX) Zone 22 (ATEX) ATEX category gas II 2G ATEX category for dust II 2D Type of ignition protection for gas Ex h IIIC T120°C Db Explosive ambient temperature -20°C <= Ta <= +60°C	Operating pressure	0.1 MPa 1 MPa
UKCA marking (see declaration of conformity) Explosion protection certification outside the EU EPL Db (GB) EPL Gb (GB) Explosion prevention and protection Zone 1 (ATEX) Zone 1 (UKEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 21 (UKEX) Zone 21 (UKEX) Zone 22 (ATEX) ATEX category gas II 2G ATEX category for dust II 2D Type of ignition protection for gas Ex h IIC T4 Gb Explosive ambient temperature -20°C <= Ta <= +60°C	Mode of operation	Double-acting
Explosion protection certification outside the EU EPL Db (GB) Explosion prevention and protection Zone 1 (ATEX) Zone 1 (UKEX) Zone 2 (ATEX) Zone 21 (UKEX) Zone 21 (UKEX) Zone 21 (UKEX) Zone 22 (ATEX) ATEX category gas II 2G ATEX category for dust II 2D Type of ignition protection for gas Ex h IIC T4 Gb Explosive ambient temperature EPL Db (GB) EV A I I I I I I I I I I I I I I I I I I	CE marking (see declaration of conformity)	as per EU explosion protection directive (ATEX)
Explosion prevention and protection Zone 1 (ATEX) Zone 1 (UKEX) Zone 2 (ATEX) Zone 21 (UKEX) Zone 21 (UKEX) Zone 21 (UKEX) Zone 22 (ATEX) ATEX category gas II 2G ATEX category for dust II 2D Type of ignition protection for gas Ex h IIC T4 Gb Explosive ambient temperature EPL Gb (GB) Zone 1 (ATEX) Zone 2 (ATEX) Zone 22 (ATEX) Exh IIC T120°C Db Explosive ambient temperature -20°C <= Ta <= +60°C	UKCA marking (see declaration of conformity)	acc. to UK EX instructions
Zone 1 (UKEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 21 (UKEX) Zone 21 (UKEX) Zone 22 (UKEX) Zone 22 (ATEX) ATEX category gas II 2G ATEX category for dust II 2D Type of ignition protection for gas Ex h IIC T4 Gb Type of (ignition) protection for dust Ex h IIIC T120°C Db Explosive ambient temperature Zone 1 (UKEX) Zone 2 (ATEX) Zone 21 (UKEX) Zone 22 (ATEX) Zone 21 (UKEX) Zone 21 (ATEX) Zone 21 (UKEX) Zone 22 (ATEX)	Explosion protection certification outside the EU	· ·
ATEX category for dust Type of ignition protection for gas Ex h IIC T4 Gb Type of (ignition) protection for dust Ex h IIIC T120°C Db Explosive ambient temperature -20°C <= Ta <= +60°C	Explosion prevention and protection	Zone 1 (UKEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 21 (UKEX)
Type of ignition protection for gas Ex h IIC T4 Gb Type of (ignition) protection for dust Ex h IIIC T120°C Db Explosive ambient temperature -20°C <= Ta <= +60°C	ATEX category gas	II 2G
Type of (ignition) protection for dust Ex h IIIC T120°C Db Explosive ambient temperature -20°C <= Ta <= +60°C	ATEX category for dust	II 2D
Explosive ambient temperature -20°C <= Ta <= +60°C	Type of ignition protection for gas	Ex h IIC T4 Gb
	Type of (ignition) protection for dust	Ex h IIIC T120°C Db
Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4]	Explosive ambient temperature	-20°C <= Ta <= +60°C
	Operating medium	Compressed air as per ISO 8573-1:2010 [7:4:4]

Feature	Value
Information on operating and pilot media	Operation with oil lubrication possible (required for further use)
Corrosion resistance class (CRC)	4 - Particularly high corrosion stress
LABS (PWIS) conformity	VDMA24364-B2-L VDMA24364 zone III
For use in the food industry	See declaration of conformity
Ambient temperature	-20 °C 80 °C
Theoretical force at 6 bar, retracting	4418 N
Theoretical force at 6 bar, advancing	4712 N
Moving mass at 0 mm stroke	1018 g
Additional moving mass per 10 mm stroke	39 g
Basic weight with 0 mm stroke	8527 g
Additional weight per 10 mm stroke	75 g
Type of mounting	With accessories
Pneumatic connection	G1/2
Note on materials	RoHS-compliant
Cover material	High-alloy stainless steel
Piston rod material	High-alloy stainless steel
Material of cylinder barrel	High-alloy stainless steel