





General operating condition

Data sheet

Overall data sheet – Individual values depend upon your configuration.

Finge hole pattern Fiston diameter Fiston diameter Fitting connection conforms to standard Cushioning Elastic cushioning rings/plates at both ends Mounting position Mode of operation Dealign Position detection Position detection Via proximity switch Symbol Variants Exprotection approval (ATEX) Extended male piston rod thread Extended piston rod Piston rod with male thread shortened at one end Extended piston rod with male thread shortened at one end Extended piston rod with male thread shortened at one end Extended piston rod with male thread shortened at one end Extended piston rod with male thread shortened at one end Extended piston rod with male thread shortened at one end Extended piston rod with male thread shortened at one end Extended piston rod with male thread shortened at one end Extended piston rod with male thread shortened at one end Extended piston rod with male thread shortened at one end Extended piston rod with male thread shortened at one end Extended piston rod with male thread shortened at one end Extended piston rod with male thread shortened at one end Extended piston rod with male thread shortened at one end Extended piston rod with male thread shortened at one end Extended piston rod with male thread shortened at one end Extended piston rod with male thread shortened at one end Extended piston rod Fiston rod with male thread shortened at one end Extended piston rod Fiston rod with male thread shortened at one end Extended piston rod Fiston rod with male thread shortened at one end Extended piston rod Fiston rod with male thread shortened at one end Extended piston rod Fiston rod with male thread shortened at one end Extended piston rod Fiston rod with male thread shortened at one end Extended piston rod Fiston rod with male thread shortened at one end Extended piston rod Fiston rod with male thread shortened at one end Extended piston rod Fiston rod with male thread shortened at one end Extended piston rod Fiston rod with male thread	Feature	Value
Piston diameter 125 mm Piston diameter 125 mm ISO 5210 ISO 5	Size of valve actuator	125
Piston diameter 125 mm Fitting connection conforms to standard 150 5210 Cushioning Elastic cushioning rings/plates at both ends Mounting position optional Double-acting Piston rod Tie rod Cylinder barrel Position detection Via proximity switch O0991217 Variants Ex protection approval (ATEX) Extended male piston rod Piston rod Piston rod Piston rod Tie rod Cylinder barrel Ex protection approval (ATEX) Extended male piston rod Piston	Flange hole pattern	F10
Fitting connection conforms to standard Cushioning Elastic cushioning rings/plates at both ends Mounting position Mode of operation Design Piston Piston rod Tie rod Cylinder barrel Position detection Formation Position detection Position detection Position detection Position detection Formation Position detection Position approval (ATEX) Extended male piston rod thread Custom thread on the piston rod Piston rod with male thread shortened at one end Extended piston rod Piston rod with male thread shortened at one end Extended piston rod Spacer bolt on bearing cap side Poperating pressure Operating pressure Operating pressure Operating pressure One APPa Nominal operating pressure EXESTINATION For EU Explosion Protection Directive (ATEX) EXEMPLIANCE and EVEX To EU Explosion Protection Directive (ATEX) EXPLOSION PROTECTION CONTROL EXPLOSION PROTECTION CONTROL Zone 1 (AIEX) Zone 2 (Stroke	10 mm 1600 mm
Elastic cushioning rings/plates at both ends Mounting position Double-acting Piston Piston Piston rod Tie rod Cylinder barrel Position detection Via proximity switch Symbol Variants Ex protection approval (ATEX) Extended male piston rod Fiston rod Fiston rod What was a many and thread on the piston rod Extended pisto	Piston diameter	125 mm
Mounting position Mode of operation Design Piston Piston rod Tie rod Cylinder barrel Position detection Via proximity switch Symbol Oo991217 Variants EX protection approval (ATEX) Extended male piston rod thread Custom thread on the piston rod Piston rod with male thread shortened at one end Extended piston rod Spacer bolt on bearing cap side Operating pressure Operating pressure Operating pressure 29 psi 116 psi Nominal operating pressure 0.6 MPa Nominal operating pressure 6 bar Nominal operating pressure 87 psi CE mark (see declaration of conformity) To EU Explosion Protection Directive (ATEX) Explosion protection certification outside the EU EPL Db (GB) EPL Db (GB) EPL Db (GB) EPL Cd (CHEX) Zone 1 (ATEX) Zone 1 (ATEX) Zone 1 (UKEX) Zone 2 (ATEX) Zone 21 (UKEX) Zone 22 (ATEX) Zone 22 (ATEX) ATEX category dust II 20 ATEX category dust	Fitting connection conforms to standard	ISO 5210
Double-acting Design Piston Piston Piston rod Tie rod Cylinder barrel Via proximity switch Symbol Oo991217 Variants EX protection approval (ATEX) Extended male piston rod thread Custom thread on the piston rod Piston rod with male thread shortened at one end Extended piston rod Spacer bolt on bearing cap side Operating pressure Operating pressure Operating pressure 2 bar 8 bar Operating pressure 2 2 psi 116 psi Nominal operating pressure 0.6 MPa Nominal operating pressure EX protection of conformity) To EU Explosion Protection Directive (ATEX) Explosion protection certification outside the EU EPL Db (GB) Explosion protection certification outside the EU EPL Db (GB) Explosion protection Zone 1 (MTEX) Zone 2 (MTEX) Zone 21 (MEX) Zone 22 (ATEX) ZONE 23 (ATEX) ZONE 23 (ATEX) ZONE 24 (ATEX) ZONE 24 (ATEX) ZONE 25 (ATEX	Cushioning	Elastic cushioning rings/plates at both ends
Design Piston rod Tie rod Cylinder barrel Position detection Via proximity switch Symbol Oosy1217 EX protection approval (ATEX) Extended male piston rod thread Custom thread on the piston rod Piston rod with male thread shortened at one end Extended piston rod Spacer bolt on bearing cap side Operating pressure One MPa Nominal operating pressure One MPa Nominal operating pressure Observating pressure Operating pressure Operating pressure One MPa Nominal operating pressure Operating pr	Mounting position	optional
Pistion rod Tie rod Cylinder barrel Position detection Via proximity switch Symbol O0991217 Variants EX protection approval (ATEX) Extended male piston rod thread Custom thread on the piston rod Piston rod with male thread shortened at one end Extended piston rod Extended piston rod Piston rod with male thread shortened at one end Extended piston rod Spacer bolt on bearing cap side Operating pressure Oz. MPa 0.8 MPa Operating pressure 2 bar 8 bar Operating pressure 0.6 MPa Nominal operating pressure 6 bar Nominal operating pressure 87 psi CE mark (see declaration of conformity) To EU Explosion Protection Directive (ATEX) UKCA marking (see declaration of conformity) To EU Explosion protection certification outside the EU EPL Db (GB) Explosion protection certification outside the EU EPL Db (GB) Explosion protection Zone 1 (ATEX) Zone 21 (WEX) Zone 22 (WEX)	Mode of operation	Double-acting
Symbol Op91217 EX protection approval (ATEX) Extended male piston rod thread Custom thread on the piston rod Piston rod with male thread shortened at one end Extended piston rod Spacer bolt on bearing cap side Operating pressure Operating pre	Design	Piston rod Tie rod
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Extended male piston rod thread Custom thread on the piston rod with male thread shortened at one end Extended piston rod Spacer bolt on bearing cap side Operating pressure Operating p	Symbol	00991217
Operating pressure 2 bar 8 bar Operating pressure 29 psi 116 psi Nominal operating pressure 0.6 MPa Nominal operating pressure 6 bar Nominal operating pressure 87 psi CE mark (see declaration of conformity) To EU Explosion Protection Directive (ATEX) UKCA marking (see declaration of conformity) To UK EX instructions Explosion protection certification outside the EU EPL Db (GB) EPL Gb (GB) Explosion protection Zone 1 (MEX) Zone 1 (MEX) Zone 2 (ATEX) Zone 21 (MEX) Zone 21 (UKEX) Zone 22 (ATEX) ATEX category gas II 2G ATEX category dust	Variants	Extended male piston rod thread Custom thread on the piston rod Piston rod with male thread shortened at one end Extended piston rod
Departing pressure 29 psi 116 psi Nominal operating pressure 0.6 MPa Nominal operating pressure 6 bar Nominal operating pressure 87 psi CE mark (see declaration of conformity) To EU Explosion Protection Directive (ATEX) UKCA marking (see declaration of conformity) To UK EX instructions Explosion protection certification outside the EU EPL Db (GB) EPL Gb (GB) Explosion protection Zone 1 (ATEX) Zone 1 (UKEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 21 (UKEX) Zone 22 (ATEX) ATEX category gas II 2G ATEX category dust	Operating pressure	0.2 MPa 0.8 MPa
Nominal operating pressure Nominal operating pressure Nominal operating pressure 87 psi CE mark (see declaration of conformity) To EU Explosion Protection Directive (ATEX) UKCA marking (see declaration of conformity) To UK EX instructions Explosion protection certification outside the EU EPL Db (GB) EPL Gb (GB) Explosion protection 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 dust II 2D	Operating pressure	2 bar 8 bar
Nominal operating pressure Nominal operating pressure Rominal operating pressure Ro	Operating pressure	29 psi 116 psi
Nominal operating pressure CE mark (see declaration of conformity) UKCA marking (see declaration of conformity) To UK EX instructions Explosion protection certification outside the EU EPL Db (GB) EPL Gb (GB) Explosion 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 dust II 2D	Nominal operating pressure	0.6 MPa
CE mark (see declaration of conformity) UKCA marking (see declaration of conformity) Explosion protection certification outside the EU EPL Db (GB) EPL Gb (GB) Explosion 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 dust II 2D	Nominal operating pressure	6 bar
UKCA marking (see declaration of conformity) Explosion protection certification outside the EU EPL Db (GB) EPL Gb (GB) Explosion 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 dust II 2D	Nominal operating pressure	87 psi
Explosion protection certification outside the EU EPL Db (GB) EPL Gb (GB) Explosion 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 dust II 2D	CE mark (see declaration of conformity)	To EU Explosion Protection Directive (ATEX)
EPL Gb (GB) Explosion 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 dust II 2D	UKCA marking (see declaration of conformity)	To UK EX instructions
Zone 1 (UKEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 21 (UKEX) Zone 21 (UKEX) Zone 22 (ATEX) ATEX category gas	Explosion protection certification outside the EU	
ATEX category dust	Explosion protection	Zone 1 (UKEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 21 (UKEX)
5 <i>/</i>	ATEX category gas	II 2G
Explosion ignition protection type for gas Ex h IIC T4 Gb	ATEX category dust	II 2D
	Explosion ignition protection type for gas	Ex h IIC T4 Gb

Feature	Value
Explosion ignition protection type for dust	Ex h IIIC T120°C Db
Explosion ambient temperature	-20 °C <= Ta <= +80 °C
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]
Note on operating and pilot medium	Lubricated operation possible (in which case lubricated operation will always be required)
Vibration resistance	Transport application test with severity level 1 to FN 942017-4 and EN 60068-2-6
Shock resistance	Shock test with severity level 1 to FN 942017-5 and EN 60068-2-27
LABS (PWIS) conformity	VDMA24364 zone III
Ambient temperature	-20 °C 80 °C
Impact energy in end positions	1.1]
Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke	7069 N
Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke	7363 N
Air consumption on return stroke per 10 mm	0.825 l
Air consumption on advance stroke per 10 mm	0.859 l
Moving mass for 0 mm stroke	1059.6 g
Additional moving mass per 10 mm stroke	38.9 g
Product weight	3080 g 20210 g
Basic weight for 0 mm stroke	2968.9 g
Additional weight per 10 mm stroke	107.4 g
Type of mounting	Either: On flange as per ISO 5210 With spacer bolt
Pneumatic connection	G1/8
Note on materials	RoHS-compliant
Material cover	Gravity die-cast aluminium
Material piston rod	High-alloy stainless steel
Material piston rod wiper	TPE-U(PU)
Material nut	High-alloy stainless steel
Material static seals	NBR
Material tie rod	High-alloy stainless steel
Material cylinder barrel	Smooth-anodised wrought aluminium alloy