ISO cylinder
DSNU-12- -

Part number: 193988

General operating condition

Data sheet

Overall data sheet – Individual values depend upon your configuration.

Feature	Value
Stroke	1 mm ... 200 mm
Piston diameter	12 mm
Cushioning	Elastic cushioning rings/plates at both ends Pneumatic cushioning, adjustable at both ends
Mounting position	Any
Conforms to standard	ISO 6432
Design	Piston Piston rod Cylinder barrel
Position detection	Via proximity switch
Variants	Weld spatter protection Custom thread on the piston rod Piston rod with external hexagon Additional slide, standard, on left Low friction for balancer applications Bearing cap without mounting thread Swivelling rod eye mounting on the end cap Module for reaching a specific end position in case of a pressure failure Transverse force increased Reinforced piston rod Uniform, slow movement Low friction Through, hollow piston rod Additional PTFE piston guide
Protection against torque/guide	Square piston rod
Operating pressure	0.15 MPa ... 1 MPa
Operating pressure	1.5 bar ... 10 bar
Mode of operation	Double-acting
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	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 <= +60°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)
Corrosion resistance class CRC	2 - Moderate corrosion stress 3 - high corrosion stress
LABS (PWIS) conformity	VDMA24364-B1/B2-L VDMA24364 zone III
Ambient temperature	-20 °C ... 120 °C
Impact energy in end positions	0.035 J ... 0.07 J
Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke	51 N ... 68 N
Type of mounting	With accessories
Pneumatic connection	M5
Note on materials	RoHS compliant
Material cover	Wrought aluminium alloy
Material seals	NBR TPE-U(PU)
Material piston rod	High-alloy stainless steel
Material cylinder barrel	High-alloy stainless steel