Round cylinder
DSNU-50- -

Part number: 193994



Data sheet

Feature	Value
Stroke	1 mm...500 mm
Piston diameter	50 mm
Cushioning	Elastic cushioning rings/plates at both ends Self-adjusting pneumatic end-position cushioning Pneumatic cushioning, adjustable at both ends
Mounting position	Any
Design	Piston Piston rod Cylinder barrel
Position detection	Via proximity switch
Variants	Advancing stroke adjustment Weld spatter protection Extended male piston rod thread Piston rod with female thread 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 Metal scraper Module for reaching a specific end position in case of a pressure failure Transverse force increased High corrosion protection 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	0.1 MPa...1 MPa 1 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)

Feature	Value
	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
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	0.5 J...1 J
Cushioning length	20 mm
Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke	990 N
Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke	1178 N
Moving mass for 0 mm stroke	413 g
Additional moving mass per 10 mm stroke	25 g
Basic weight for 0 mm stroke	1087 g
Additional weight per 10 mm stroke	40 g
Type of mounting	With accessories
Pneumatic connection	G1/4
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