178461

Industrial automation components

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Manufacturer	Festo
Catalog number	178461
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Product Type	Clamping Cartridge
Clamping Type	Spring force clamping, air release
Clamping Direction	Both sides
Operating Pressure	0.3 to 1 MPa (3 to 10 bar)
Release Pressure	0.3 MPa (3 bar)
Clamping Material Diameter	32 mm
Ambient Temperature Range	-10°C to 80°C
Static Holding Force	7,500 N
Product Weight	1,600 g
Housing Material	Anodized aluminum
Clamp Jaws Material	Brass
Piston Material	POM

Description

The Festo 178461 Clamping Cartridge, also known as KP-32-7500, is a pneumatic component designed for industrial automation applications requiring precise clamping of round materials. This device utilizes a tilting wedge mechanism to securely clamp 32 mm diameter materials on both sides, with clamping achieved through spring force and release via compressed air. It operates efficiently within a pressure range of 0.3 to 1 MPa (3 to 10 bar) and is suitable for ambient temperatures between -10°C and 80°C. The cartridge features a static holding force of 7,500 N and is constructed with anodized

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aluminum housing, brass clamp jaws, and a POM piston, ensuring durability and resistance to moderate corrosion. The operating medium is compressed air compliant with ISO 8573-1:2010 [7:4:4], and lubricated operation is possible, which is required for further use. The product weighs 1,600 g and is equipped with NBR and TPE-U(PU) seals. This clamping cartridge is ideal for applications where reliable and adjustable clamping of round materials is essential.