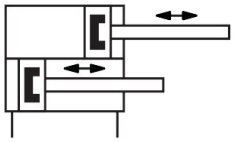
Feed separator
HPV-14-20-A

Part number: 529351





Data sheet

Feature	Value
Stroke	20 mm
Piston diameter	14 mm
Max. interchangeability	0.3 mm
Max. tappet play Sx	0.05 mm
Max. tappet play Sz	0.03 mm
Max. gripper jaw angular backlash	0.12 deg
Max. gripper jaw angular backlash ay	0.2 deg
Max. gripper jaw angular backlash az	0.175 deg
External finger mounting	Through-hole
Cushioning	No cushioning
Mounting position	Any
Mode of operation	Double-acting
Structural design	Double piston Piston rod Gate valve Anti-twist feature
Position sensing	Via proximity switch
Half pulse	111.5 ms
Protection against torsion/guide	Rectangular guide
Cycle time	223 ms
Minimum product distance due to proximity switches	54 mm...59 mm
Proximity switch protrusion	14 mm...22 mm
Operating pressure	3 bar...8 bar
Advancing time	0.03 ms...0.07 ms
Retracting time	0.03 ms...0.07 ms
Operating medium	Compressed air as per ISO 8573-1:2010 [7:4:4]
Information on operating and pilot media	Operation with oil lubrication possible (required for further use)
Corrosion resistance class (CRC)	2 - Moderate corrosion stress
LABS (PWIS) conformity	VDMA24364-B2-L
Degree of protection	IP40
Ambient temperature	5 °C...60 °C
Max. tightening torque	2.9 Nm for M4

Feature	Value
	5.9 Nm for M5
Max. force on finger Fz static	100 N
Max. static moment Mr at finger	5 Nm
Max. static moment Mx at finger	5 Nm
Max. static moment at finger	5 Nm
Theoretical force at 6 bar, retracting	75 N
Theoretical force at 6 bar, advancing	90 N
Product weight	290 g
Max. mass per external gripper finger	150 g
Alternative connections	M5
Type of mounting	with through-hole for M4 screw and centering sleeve with internal thread M5 and centering sleeve
Pneumatic connection	M5
Note on materials	RoHS compliant
Material of end caps	High-alloy steel
Seals material	NBR
Housing material	Wrought aluminum alloy COMPCOTE-coated
Piston rod material	High-alloy steel
Plunger material	High-alloy steel