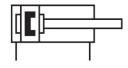
Flat cylinder DZF-18-100-A-P-A Part number: 161242





Data sheet

Piston diameter 18 mm Equivalent diameter Piston rod thread M8 Max. angle of rotation of the piston rod +/- 1.2 deg Cushioning Elastic cushioning rings/pads at both ends Mounting position Any Mode of operation Double-acting Structural design Piston rod Position sensing For proximity sensor Protection against torsion/guide Oval piston Operating medium Compressed aira spr ISO 8573-1:2010 [7:4:4] Information on operating and pilot media Operation goes stress Corrosion resistance class (CRC) 2 - Moderate corrosion stress Lass (PWIS) conformity VDMA24364-81/B2-L Ambient temperature -20 °C80 °C Impact energy in the end positions 0.1 J Max. torque for protection against rotation 0.2 Nm Theoretical force at 6 bar, advancing 123 N Theoretical moving mass per 10 mm stroke 4 g Additional weight per 10 mm stroke 13 g	Feature	Value
Equivalent diameterPiston rod threadM8Max. angle of rotation of the piston rod +/-1.2 degCushioningElastic cushioning rings/pads at both endsMounting positionAnyMode of operationDouble-actingStructural designPiston Piston rodPosition sensingFor proximity sensorProtection against torsion/guideOval pistonOperating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]Information on operating and pilot mediaOperation with oil lubrication possible (required for further use)Corrosion resistance class (CRC)2 - Moderate corrosion stressLABS (PWIS) conformityVDMA24364-B1/B2-LAmbient temperature-20 °C80 °CImpact energy in the end positions0.1 JMax. torque for protection against rotation0.2 NmTheoretical force at 6 bar, retracting153 NMoving mass at 0 mm stroke4 gAdditional weign bars of Lag24 gAdditional weign bars of Lag13 gBasic weight with 0 mm stroke107 gType of mountingWith internal threadWith internal threadWith internal threadOperation with oil users of possible internal thread0.1 gProtection against rotation0.2 NmTheoretical force at 6 bar, retracting13 gBasic weight with 0 mm stroke107 gProtection rotage at 0 mm stroke107 gProtection against rotation0.2 NmType of mountingWith internal thread With internal thread Wit	Stroke	100 mm
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Mounting positionAnyMode of operationDouble-actingStructural designPistonPosition sensingFor proximity sensorProtection against torsion/guideOval pistonOperating pressure0.1 MPa1 MPa 1 bar10 barOperating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]Information on operating and pilot mediaOperation with oil lubrication possible (required for further use)Corrosion resistance class (CRC)2 - Moderate corrosion stressLABS (PWIS) conformityVDMA24364-B1/B2-LAmbient temperature-20 °C80 °CImpact energy in the end positions0.1 JMax. torque for protection against rotation0.2 NmTheoretical force at 6 bar, retracting153 NMoving mass at 0 mm stroke4 gAdditional weight per 10 mm stroke4 gAdditional weight per 10 mm stroke107 gType of mountingWith internal thread With accessories Optionally:Pneumatic connectionM5	Max. angle of rotation of the piston rod +/-	1.2 deg
Mode of operationDouble-actingStructural designPiston Piston rodPosition sensingFor proximity sensorProtection against torsion/guideOval pistonOperating pressure0.1 MPa1 MPa 1 bar10 barOperating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]Information on operating and pilot mediaOperation with oil lubrication possible (required for further use)Corrosion resistance class (CRC)2 - Moderate corrosion stressLABS (PWIS) conformityVDMA24364-B1/B2-LAmbient temperature-20 °C80 °CImpact energy in the end positions0.1 JMax. torque for protection against rotation0.2 NmTheoretical force at 6 bar, advancing153 NMoving mass at 0 mm stroke24 gAdditional weight per 10 mm stroke13 gBasic weight with 0 mm stroke107 gType of mountingWith internal thread With accessories Optionally:	Cushioning	Elastic cushioning rings/pads at both ends
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Protection against torsion/guideOval pistonOperating pressure0.1 MPa1 MPa 1 bar10 barOperating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]Information on operating and pilot mediaOperation with oil lubrication possible (required for further use)Corrosion resistance class (CRC)2 - Moderate corrosion stressLABS (PWIS) conformityVDMA24364-B1/B2-LAmbient temperature-20 °C80 °CImpact energy in the end positions0.1 JMax. torque for protection against rotation0.2 NmTheoretical force at 6 bar, retracting123 NTheoretical force at 6 bar, advancing153 NMoving mass at 0 mm stroke4 gAdditional weight per 10 mm stroke13 gBasic weight with 0 mm stroke107 gType of mountingWith internal thread With accessories Optionally:Pneumatic connectionM5	Structural design	
Operating pressure0.1 MPa1 MPa 1 bar10 barOperating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]Information on operating and pilot mediaOperation with oil lubrication possible (required for further use)Corrosion resistance class (CRC)2 - Moderate corrosion stressLABS (PWIS) conformityVDMA24364-B1/B2-LAmbient temperature-20 °C80 °CImpact energy in the end positions0.1 JMax. torque for protection against rotation0.2 NmTheoretical force at 6 bar, retracting123 NTheoretical force at 6 bar, advancing153 NMoving mass at 0 mm stroke4 gAdditional weight per 10 mm stroke13 gBasic weight with 0 mm stroke107 gType of mountingWith internal thread With accessories Optionally:Pneumatic connectionM5	Position sensing	For proximity sensor
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LABS (PWIS) conformityVDMA24364-B1/B2-LAmbient temperature-20 °C80 °CImpact energy in the end positions0.1 JMax. torque for protection against rotation0.2 NmTheoretical force at 6 bar, retracting123 NTheoretical force at 6 bar, advancing153 NMoving mass at 0 mm stroke24 gAdditional moving mass per 10 mm stroke4 gAdditional weight per 10 mm stroke107 gType of mountingWith internal thread With accessories Optionally:Pneumatic connectionM5	Information on operating and pilot media	Operation with oil lubrication possible (required for further use)
Ambient temperature-20 °C80 °CImpact energy in the end positions0.1 JMax. torque for protection against rotation0.2 NmTheoretical force at 6 bar, retracting123 NTheoretical force at 6 bar, advancing153 NMoving mass at 0 mm stroke24 gAdditional moving mass per 10 mm stroke4 gAdditional weight per 10 mm stroke13 gBasic weight with 0 mm stroke107 gType of mountingWith internal thread With accessories Optionally:Pneumatic connectionM5	Corrosion resistance class (CRC)	2 - Moderate corrosion stress
Impact energy in the end positions0.1 JMax. torque for protection against rotation0.2 NmTheoretical force at 6 bar, retracting123 NTheoretical force at 6 bar, advancing153 NMoving mass at 0 mm stroke24 gAdditional moving mass per 10 mm stroke4 gAdditional weight per 10 mm stroke13 gBasic weight with 0 mm stroke107 gType of mountingWith internal thread With accessories Optionally:Pneumatic connectionM5	LABS (PWIS) conformity	VDMA24364-B1/B2-L
Max. torque for protection against rotation0.2 NmTheoretical force at 6 bar, retracting123 NTheoretical force at 6 bar, advancing153 NMoving mass at 0 mm stroke24 gAdditional moving mass per 10 mm stroke4 gAdditional weight per 10 mm stroke13 gBasic weight with 0 mm stroke107 gType of mountingWith internal thread With accessories Optionally:Pneumatic connectionM5	Ambient temperature	-20 °C80 °C
Theoretical force at 6 bar, retracting123 NTheoretical force at 6 bar, advancing153 NMoving mass at 0 mm stroke24 gAdditional moving mass per 10 mm stroke4 gAdditional weight per 10 mm stroke13 gBasic weight with 0 mm stroke107 gType of mountingWith internal thread With accessories Optionally:Pneumatic connectionM5	Impact energy in the end positions	0.1 J
Theoretical force at 6 bar, advancing153 NMoving mass at 0 mm stroke24 gAdditional moving mass per 10 mm stroke4 gAdditional weight per 10 mm stroke13 gBasic weight with 0 mm stroke107 gType of mountingWith internal thread With accessories Optionally:Pneumatic connectionM5	Max. torque for protection against rotation	0.2 Nm
Moving mass at 0 mm stroke24 gAdditional moving mass per 10 mm stroke4 gAdditional weight per 10 mm stroke13 gBasic weight with 0 mm stroke107 gType of mountingWith internal thread With accessories Optionally:Pneumatic connectionM5	Theoretical force at 6 bar, retracting	123 N
Additional moving mass per 10 mm stroke 4 g Additional weight per 10 mm stroke 13 g Basic weight with 0 mm stroke 107 g Type of mounting With internal thread With accessories Optionally: Pneumatic connection M5	Theoretical force at 6 bar, advancing	153 N
Additional weight per 10 mm stroke 13 g Basic weight with 0 mm stroke 107 g Type of mounting With internal thread With accessories Optionally: Pneumatic connection M5	Moving mass at 0 mm stroke	24 g
Basic weight with 0 mm stroke 107 g Type of mounting With internal thread With accessories Optionally: Pneumatic connection M5	Additional moving mass per 10 mm stroke	4 g
Type of mounting With internal thread With accessories Optionally: Pneumatic connection M5	Additional weight per 10 mm stroke	13 g
With accessories Optionally:	Basic weight with 0 mm stroke	107 g
	Type of mounting	With accessories
Cover material Wrought aluminum alloy	Pneumatic connection	M5
	Cover material	Wrought aluminum alloy

FESTO

Feature	Value
	NBR TPE-U(PU)
Housing material	Wrought aluminum alloy, anodized
Piston seal material	NBR
Piston rod material	High-alloy stainless steel