Linear actuator DFPC-125-100-D Part number: 8110773

Data sheet

Flage hole pattern F10 Stroke 100 mm Piston diameter 125 mm Standard connection for valve ISO 5210 Cushioning Elastic cushioning rings/pads at both ends Mounting position Any Mode of operation Double-acting Piston rod Piston rod The rod Cylinder barrel Position sensing For proximity sensor Operating pressure 0.2 MPa0.8 MPa 2 bar16 psi Nominal operating pressure 0.6 MPa 6 bar 2 Psi116 psi Nominal operating and pilot media Operation test with severity level 1 as per FN 942017-4 and EN 60068-2-27 Vibration resistance Shock test with severity level 1 as per FN 942017-5 and EN 60068-2-27 LABS (PWIS) conformity VDMA24364 zone III Ambient temperature -20 °C80 °C Impact energy in the end positions 1.11 Theoretical force at 6 bar, advancing 7363 N Air consumption, retracting, per 10 mm stroke 0.859 I Moving mass at 0 nm stroke 0.859 I Additional moving mass per 10 mm stroke 38.9 g	Feature	Value
Stroke 100 mm Piston diameter 125 mm Standard connection for valve ISO 5210 Cushioning Elastic cushioning rings/pads at both ends Mounting position Any Mode of operation Double-acting Structural design Piston Piston rod Tie rod Cylinder barrel Position sensing For proximity sensor Operating pressure 0.2 MPa0.8 MPa 2 bar8 bar 29 psi116 psi Nominal operating pressure 0.6 MPa 6 bar 87 psi Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Information on operating and pilot media Operation resistance Shock test with severity level 1 as per FN 942017-4 and EN 60068-2-6 Shock resistance Shock test with severity level 1 as per FN 942017-5 and EN 60068-2-27 LABS (PWIS) conformity Ambient temperature -20 °C80 °C Impact energy in the end positions 1.1 J Theoretical force at 6 bar, retracting 7069 N Theoretical force at 6 bar, advancing 7363 N Air consumption advancing per 10 mm stroke 0.825 1 Additional moving mass per 10 mm stroke 38.9 g	Size of valve actuator	125
Piston diameter 125 mm Standard connection for valve ISO 5210 Cushioning Elastic cushioning rings/pads at both ends Mounting position Any Mode of operation Double-acting Structural design Piston Piston rod Tie rod Cylinder barrel 0.2 MPa0.8 MPa Position sensing For proximity sensor Operating pressure 0.6 MPa Obar 6 bar 87 psi 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) Vibration resistance Shock test with severity level 1 as per FN 942017-4 and EN 60068-2-6 Shock resistance Shock test with severity level 1 as per FN 942017-5 and EN 60068-2-7 LABS (PWIS) conformity VDMA24364 zone III Ambient temperature -20 °C80 °C Import temperature -20 °C80 °C Interretical force at 6 bar, retracting 7069 N Theoretical force at 6 bar, advancing 7363 N Air consumption advancing per 10 mm stroke 0.859 1 Moving mass at 0 mm stroke 0.859 1 <t< td=""><td>Flange hole pattern</td><td>F10</td></t<>	Flange hole pattern	F10
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Mounting position Any Mode of operation Double-acting Structural design Piston Piston rod Tie rod Cylinder barrel Position sensing For proximity sensor Operating pressure 0.2 MPa0.8 MPa 2 bar8 bar 29 psi116 psi Nominal operating pressure 0.6 MPa 6 bar 87 psi Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Moint resistance Shock test with severity level 1 as per FN 942017-4 and EN 60068-2-6 Shock resistance Shock test with severity level 1 as per FN 942017-5 and EN 60068-2-27 LABS (PWIS) conformity VDMA24364 zone III Ambient temperature -20 °C80 °C I	Standard connection for valve	ISO 5210
Mode of operationDouble-actingStructural designPiston Piston rod Tie rod Cylinder barrelPosition sensingFor proximity sensorOperating pressure0.2 MPa0.8 MPa 2 bar8 bar 2 bpsi116 psiNominal operating pressure0.6 MPa 6 bar 87 psiOperating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]Operating and pilot mediaOperation with oil lubrication possible (required for further use)Vibration resistanceTransport application test with severity level 1 as per FN 942017-4 and EN 60068-2-6Shock resistanceShock test with severity level 1 as per FN 942017-5 and EN 60068-2-27LABS (PWIS) conformityVDMA24364 zone IIIAmbient temperature-20 °C80 °CImpact energy in the end positions1.1 JTheoretical force at 6 bar, retracting Theoretical force at 6 bar, advancing7363 NAir consumption, retracting, per 10 mm stroke0.825 IAir consumption advancing per 10 mm stroke0.859 IMoving mass at 0 mm stroke38.9 g	Cushioning	Elastic cushioning rings/pads at both ends
Structural designPiston Piston rod Tie rod Cylinder barrelPosition sensingFor proximity sensorOperating pressure0.2 MPa0.8 MPa 2 bar8 bar 29 psi116 psiNominal operating pressure0.6 MPa 6 bar 87 psiOperating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]Operating 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)Vibration resistanceTransport application test with severity level 1 as per FN 942017-4 and EN 60068-2-6Shock resistanceShock test with severity level 1 as per FN 942017-5 and EN 60068-2-27LABS (PWIS) conformityVDMA24364 zone IIIAmbient temperature-20 °C80 °CImpact energy in the end positions1.1 JTheoretical force at 6 bar, retracting7069 NTheoretical force at 6 bar, netracting7363 NAir consumption, retracting, per 10 mm stroke0.825 1Air consumption advancing per 10 mm stroke0.859 1Moving mass at 0 mm stroke38.9 g	Mounting position	Any
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Information on operating and pilot mediaOperation with oil lubrication possible (required for further use)Vibration resistanceTransport application test with severity level 1 as per FN 942017-4 and EN 60068-2-6Shock resistanceShock test with severity level 1 as per FN 942017-5 and EN 60068-2-27LABS (PWIS) conformityVDMA24364 zone IIIAmbient temperature-20 °C80 °CImpact energy in the end positions1.1 JTheoretical force at 6 bar, retracting7069 NTheoretical force at 6 bar, advancing7363 NAir consumption, retracting, per 10 mm stroke0.825 IMoving mass at 0 mm stroke1059.6 gAdditional moving mass per 10 mm stroke38.9 g	Nominal operating pressure	6 bar
Vibration resistanceTransport application test with severity level 1 as per FN 942017-4 and EN 60068-2-6Shock resistanceShock test with severity level 1 as per FN 942017-5 and EN 60068-2-27LABS (PWIS) conformityVDMA24364 zone IIIAmbient temperature-20 °C80 °CImpact energy in the end positions1.1 JTheoretical force at 6 bar, retracting7069 NTheoretical force at 6 bar, advancing7363 NAir consumption, retracting, per 10 mm stroke0.859 IMoving mass at 0 mm stroke1059.6 gAdditional moving mass per 10 mm stroke38.9 g	Operating medium	Compressed air as per ISO 8573-1:2010 [7:4:4]
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Ambient temperature-20 °C80 °CImpact energy in the end positions1.1 JTheoretical force at 6 bar, retracting7069 NTheoretical force at 6 bar, advancing7363 NAir consumption, retracting, per 10 mm stroke0.825 lAir consumption advancing per 10 mm stroke0.859 lMoving mass at 0 mm stroke1059.6 gAdditional moving mass per 10 mm stroke38.9 g	Shock resistance	Shock test with severity level 1 as per FN 942017-5 and EN 60068-2-27
Impact energy in the end positions1.1 JTheoretical force at 6 bar, retracting7069 NTheoretical force at 6 bar, advancing7363 NAir consumption, retracting, per 10 mm stroke0.825 IAir consumption advancing per 10 mm stroke0.859 IMoving mass at 0 mm stroke1059.6 gAdditional moving mass per 10 mm stroke38.9 g	LABS (PWIS) conformity	VDMA24364 zone III
Theoretical force at 6 bar, retracting7069 NTheoretical force at 6 bar, advancing7363 NAir consumption, retracting, per 10 mm stroke0.825 IAir consumption advancing per 10 mm stroke0.859 IMoving mass at 0 mm stroke1059.6 gAdditional moving mass per 10 mm stroke38.9 g	Ambient temperature	-20 °C80 °C
Theoretical force at 6 bar, advancing7363 NAir consumption, retracting, per 10 mm stroke0.825 IAir consumption advancing per 10 mm stroke0.859 IMoving mass at 0 mm stroke1059.6 gAdditional moving mass per 10 mm stroke38.9 g	Impact energy in the end positions	1.1 J
Air consumption, retracting, per 10 mm stroke0.825 lAir consumption advancing per 10 mm stroke0.859 lMoving mass at 0 mm stroke1059.6 gAdditional moving mass per 10 mm stroke38.9 g	Theoretical force at 6 bar, retracting	7069 N
Air consumption advancing per 10 mm stroke0.859 lMoving mass at 0 mm stroke1059.6 gAdditional moving mass per 10 mm stroke38.9 g	Theoretical force at 6 bar, advancing	7363 N
Moving mass at 0 mm stroke 1059.6 g Additional moving mass per 10 mm stroke 38.9 g	Air consumption, retracting, per 10 mm stroke	0.825 l
Additional moving mass per 10 mm stroke 38.9 g	Air consumption advancing per 10 mm stroke	0.8591
	Moving mass at 0 mm stroke	1059.6 g
Product weight 4040 g	Additional moving mass per 10 mm stroke	38.9 g
	Product weight	4040 g

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Feature	Value
Basic weight with 0 mm stroke	2968.9 g
Additional weight per 10 mm stroke	107.4 g
Type of mounting	On flange as per ISO 5210 With spacer bolt Optionally:
Pneumatic connection	G1/8
Note on materials	RoHS-compliant
Cover material	Gravity die-cast aluminum
Piston rod material	High-alloy stainless steel
Piston rod wiper material	TPE-U(PU)
Nut material	High-alloy stainless steel
Static seal material	NBR
Tie rod material	High-alloy stainless steel
Material of cylinder barrel	Wrought aluminum alloy, smooth-anodized