Short-stroke cylinder ADVC-20-15-A-P-A Part number: 188152







Data sheet

20 mm Cushioning Elastic cushioning rings/pads at both ends Mounting position Any Mode of operation Double-acting Piston Piston rod Position sensing Operating pressure 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 on operating and pilot media Operation with oil lubrication possible (required for further use) Orrosion resistance class (CRC) 1 - Low corrosion stress ASE (PWIS) conformity VDMA24364-81/B2-L Ambient temperature -20°C80°C Theoretical force at 6 bar, retracting 141 N Avoing mass at 0 mm stroke 04 32 g Additional moving mass per 10 mm stroke 05 g Operating with 0 mm stroke 105 g Additional moving mass per 10 mm stroke 105 g Additional moving mass per 10 mm stroke 105 g Additional moving mass per 10 mm stroke 105 g Additional moving mass per 10 mm stroke 105 g Additional moving mass per 10 mm stroke 106 g Operation with oil tubrication possible (required for further use) 107 moving mass per 10 mm stroke 108 g Operation with oil ubrication possible (required for further use) 108 moving mass at 0 mm stroke 109 c Operation with oil ubrication possible (required for further use) 118 moving mass per 0 mm stroke 129 g Operating with 0 mm stroke 120 c Operation with 0 mm stroke 120 c Operation with 0 mm stroke 120 c Operation with 0 mm stroke 121 g Operating with 0 mm stroke 122 g Operating with 0 mm stroke 123 g Operating with 0 mm stroke 124 g Operating with 0 mm stroke 125 g Operating with 0 mm stroke 126 g Operation with 0 mm stroke 127 g Operating with 0 mm stroke 128 g Operating with 0 mm stroke 129 g Operation with 0 mm stroke 120 moving mass of 0 mm stroke 120 g Operation with 0 mm stroke 120 moving mass of 0 mm stroke 120 moving mass o	Feature	Value
Elastic cushioning ings/pads at both ends Mounting position Any Mode of operation Double-acting Piston Piston Piston Piston Piston Piston Piston Piston Portuctural design Piston rod Position sensing Portuguating pressure On 1 MPa1 MPa 1 bar1 o bar 1 45. psi145 psi Deparating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Deparating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Deparating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Deparating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Deparating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Deparating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Deparating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Deparating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Deparating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Deparating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Deparating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Deparating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Deparating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Deparating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Deparating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Deparating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Deparating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Deparating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Deparating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Deparating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Deparating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Deparating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Deparating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Deparating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Deparating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Deparating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Deparating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Deparating medium Compressed air as per ISO	Stroke	15 mm
Mounting position Mode of operation Double-acting Piston Piston Piston Piston Piston Position sensing Poperating pressure O.1 MPa1 MPa 1 bar10 bar 14.5 psi145 psi Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Operating medium Operating and pilot media Operation with oil lubrication possible (required for further use) Corrosion resistance class (CRC) 1 - Low corrosion stress ABS (PWIS) conformity VDMA24364-B1/B2-L Whibient temperature 20 °C80 °C Heoretical force at 6 bar, retracting 141 N Hoeretical force at 6 bar, advancing Moving mass 32 g Moving mass at 0 mm stroke 23 g Motificant moving mass per 10 mm stroke 6 g Product weight 148 g Masic weight with 0 mm stroke 105 g Moditional weight per 10 mm stroke 105 g Motificant moving mass per 10 mm stroke 105 g Motificant moving mass per 10 mm stroke 105 g Motificant moving mass per 10 mm stroke 105 g Motificant moving mass per 10 mm stroke 105 g Motificant moving mass per 10 mm stroke 105 g Motificant moving mass per 10 mm stroke 105 g Motificant moving mass per 10 mm stroke 105 g Motificant moving mass per 10 mm stroke 105 g Motificant moving mass per 10 mm stroke 105 g Motificant moving mass per 10 mm stroke 105 g Motificant moving mass per 10 mm stroke 105 g Motificant moving mass per 10 mm stroke 105 g Motificant moving mass per 10 mm stroke 105 g Motificant moving m	Piston diameter	20 mm
Double-acting Bructural design Piston Piston rod Position sensing Departing pressure Operating pressure Operating medium Operating and pilot media Operation with oil lubrication possible (required for further use) Corrosion resistance class (CRC) 1 - Low corrosion stress ABS (PWIS) conformity VDMA24364-B1/B2-L Ambient temperature -20 °C80 °C Theoretical force at 6 bar, retracting Moving mass 32 g Moving mass at 0 mm stroke Additional moving mass per 10 mm stroke Product weight Additional weight per 10 mm stroke Additional weight per 10 mm stroke Operation and product weight With through-hole With accessories Optionally: Double-acting Piston Porimity sensor Operating persor Operating pressure Operating pressure Operating pressure Operating pressure Operating pressure Operating pressure Operating bersinds Operating bersinds Operating bersinds Operating bersinds Operating bersinds Operating pressure Operating bersinds Operati	Cushioning	Elastic cushioning rings/pads at both ends
Piston Piston red Position sensing For proximity sensor Operating pressure O.1 MPa1 MPa 1 bar10 bar 14.5 psi145 psi Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Operating medium Operating and pilot media Operation with oil lubrication possible (required for further use) Operation resistance class (CRC) 1- Low corrosion stress ABS (PWIS) conformity VDMA24364-B1/B2-L Ambient temperature -20 °C80 °C Theoretical force at 6 bar, retracting 141 N Theoretical force at 6 bar, advancing 189 N Moving mass Moving mass at 0 mm stroke 23 g Moving mass per 10 mm stroke 6 g Product weight 148 g Sasic weight with 0 mm stroke 105 g Moditional weight per 10 mm stroke 30 g With through-hole With accessories Optionally: Peneumatic connection M5 Note on materials Rober 10 mm stroke 10 mm stroke 10 materials Over material Wrought aluminum alloy Anodized	Mounting position	Any
Piston rod Position sensing Por proximity sensor On IMPa1 MPa 1 bar10 bar 1 4.5 psi145 psi Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Operating medium Operating and pilot media Operation with oil lubrication possible (required for further use) Operation resistance class (CRC) 1 - Low corrosion stress ABS (PWIS) conformity VDMA24364-B1/B2-L Ambient temperature -20 °C80 °C Cheoretical force at 6 bar, retracting 141 N Cheoretical force at 6 bar, advancing 189 N Oving mass Woving mass at 0 mm stroke 23 g Woving mass at 0 mm stroke 6 g Product weight 148 g Sasic weight with 0 mm stroke 105 g Midditional weight per 10 mm stroke 30 g Vype of mounting With through-hole With accessories Optionally: Option materials Over material Wrought aluminum alloy Anodized	Mode of operation	Double-acting
Operating pressure O.1 MPa1 MPa 1 bar10 bar 14.5 psi145 psi Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Operating on operating and pilot media Operation with oil lubrication possible (required for further use) Operation resistance class (CRC) 1 - Low corrosion stress ABS (PWIS) conformity VDMA24364-B1/B2-L Ambient temperature -20 °C80 °C Theoretical force at 6 bar, retracting 141 N Theoretical force at 6 bar, advancing 189 N Moving mass 32 g Moving mass at 0 mm stroke 23 g Additional moving mass per 10 mm stroke 6 g Product weight 148 g Basic weight with 0 mm stroke 105 g Additional weight per 10 mm stroke 105 g Moditional weight per 10 mm stroke 106 g Moditional weight per 10 mm stroke 10	Structural design	
1 bar10 bar 14.5 psi145 psi Deparating 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) 1 - Low corrosion stress ABS (PWIS) conformity VDMA24364-B1/B2-L Ambient temperature 2-20 °C80 °C Theoretical force at 6 bar, retracting 141 N Theoretical force at 6 bar, advancing Moving mass 32 g Moving mass 40 g Additional moving mass per 10 mm stroke 6 g Product weight 148 g Basic weight with 0 mm stroke 105 g Additional weight per 10 mm stroke 105 g Additional weight per 10 mm stroke 105 g Moving mounting With through-hole With accessories Optionally: Pheumatic connection M5 RoHS-compliant Wrought aluminum alloy Anodized	Position sensing	For proximity sensor
Information on operating and pilot media Operation with oil lubrication possible (required for further use) Corrosion resistance class (CRC) 1 - Low corrosion stress VDMA24364-B1/B2-L Ambient temperature -20 °C80 °C Theoretical force at 6 bar, retracting 141 N Theoretical force at 6 bar, advancing Moving mass 32 g Moving mass at 0 mm stroke 423 g Moving mass at 0 mm stroke 6 g Product weight 148 g Basic weight with 0 mm stroke 105 g Moditional weight per 10 mm stroke 30 g With through-hole With accessories Optionally: Preumatic connection M5 Note on materials Cover material Wrought aluminum alloy Anodized Wrought aluminum alloy Anodized	Operating pressure	1 bar10 bar
Corrosion resistance class (CRC) 1 - Low corrosion stress ABS (PWIS) conformity Ambient temperature -20 °C80 °C Theoretical force at 6 bar, retracting 141 N Theoretical force at 6 bar, advancing Moving mass 32 g Moving mass at 0 mm stroke 23 g Additional moving mass per 10 mm stroke Product weight Basic weight with 0 mm stroke Additional weight per 10 mm stroke Additional weight per 10 mm stroke Type of mounting With through-hole With accessories Optionally: Preumatic connection M5 Note on materials RoHS-compliant Wrought aluminum alloy Anodized	Operating medium	Compressed air as per ISO 8573-1:2010 [7:4:4]
ABS (PWIS) conformity Ambient temperature -20 °C80 °C Theoretical force at 6 bar, retracting 141 N Theoretical force at 6 bar, advancing Moving mass 32 g Moving mass at 0 mm stroke 23 g Additional moving mass per 10 mm stroke 6 g Product weight 148 g Basic weight with 0 mm stroke 105 g Additional weight per 10 mm stroke 30 g Type of mounting With through-hole With accessories Optionally: Pneumatic connection M5 Note on materials RoHS-compliant Wrought aluminum alloy Anodized	Information on operating and pilot media	Operation with oil lubrication possible (required for further use)
Ambient temperature -20 °C80 °C Theoretical force at 6 bar, retracting 141 N Theoretical force at 6 bar, advancing Moving mass 32 g Moving mass at 0 mm stroke 23 g Additional moving mass per 10 mm stroke 6 g Product weight 148 g Basic weight with 0 mm stroke 105 g Additional weight per 10 mm stroke 30 g Type of mounting With through-hole With accessories Optionally: Pneumatic connection M5 Note on materials RoHS-compliant Wrought aluminum alloy Anodized	Corrosion resistance class (CRC)	1 - Low corrosion stress
Theoretical force at 6 bar, retracting Theoretical force at 6 bar, advancing Theoretical force at 6 bar, retracting Theoretical force at 6 bar, retracting Theoretical force at 6 bar, advancing Theoretical force at 6 bar, a	LABS (PWIS) conformity	VDMA24364-B1/B2-L
Theoretical force at 6 bar, advancing Moving mass 32 g Moving mass at 0 mm stroke 23 g Additional moving mass per 10 mm stroke 6 g Product weight 148 g Additional weight per 10 mm stroke 105 g Additional weight per 10 mm stroke With through-hole With accessories Optionally: Pneumatic connection M5 RoHS-compliant Cover material Wrought aluminum alloy Anodized	Ambient temperature	-20 °C80 °C
Moving mass 32 g Moving mass at 0 mm stroke 23 g Additional moving mass per 10 mm stroke 6 g Product weight 148 g Basic weight with 0 mm stroke 105 g Additional weight per 10 mm stroke 30 g Type of mounting With through-hole With accessories Optionally: Preumatic connection M5 Note on materials RoHS-compliant Cover material Wrought aluminum alloy Anodized	Theoretical force at 6 bar, retracting	141 N
Moving mass at 0 mm stroke 23 g Additional moving mass per 10 mm stroke 6 g Product weight 148 g Basic weight with 0 mm stroke 105 g Additional weight per 10 mm stroke 30 g Type of mounting With through-hole With accessories Optionally: Pneumatic connection M5 Rote on materials RoHS-compliant Wrought aluminum alloy Anodized	Theoretical force at 6 bar, advancing	189 N
Additional moving mass per 10 mm stroke Froduct weight Basic weight with 0 mm stroke Additional weight per 10 mm stroke Type of mounting With through-hole With accessories Optionally: Preumatic connection M5 RoHS-compliant Cover material Wrought aluminum alloy Anodized	Moving mass	32 g
Product weight 148 g Basic weight with 0 mm stroke 105 g Additional weight per 10 mm stroke 30 g Type of mounting With through-hole With accessories Optionally: Preumatic connection M5 Note on materials RoHS-compliant Cover material Wrought aluminum alloy Anodized	Moving mass at 0 mm stroke	23 g
Basic weight with 0 mm stroke 105 g Additional weight per 10 mm stroke 30 g Type of mounting With through-hole With accessories Optionally: Pneumatic connection M5 Note on materials RoHS-compliant Cover material Wrought aluminum alloy Anodized	Additional moving mass per 10 mm stroke	6 g
Additional weight per 10 mm stroke Type of mounting With through-hole With accessories Optionally: Preumatic connection M5 Note on materials RoHS-compliant Wrought aluminum alloy Anodized	Product weight	148 g
With through-hole With accessories Optionally: Pneumatic connection M5 Note on materials RoHS-compliant Wrought aluminum alloy Anodized	Basic weight with 0 mm stroke	105 g
With accessories Optionally: Pneumatic connection M5 Note on materials RoHS-compliant Cover material Wrought aluminum alloy Anodized	Additional weight per 10 mm stroke	30 g
Note on materials RoHS-compliant Wrought aluminum alloy Anodized	Type of mounting	With accessories
Cover material Wrought aluminum alloy Anodized	Pneumatic connection	M5
Anodized	Note on materials	RoHS-compliant
Seals material TPE-U(PU)	Cover material	
	Seals material	TPE-U(PU)

Feature	Value
	Wrought aluminum alloy Anodized
Piston rod material	High-alloy steel