## Compact air cylinder ADN-16-30-I-P-A

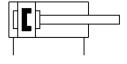
Part number: 536231



## **Data sheet**

Piston diameter     16 mm       Piston rod thread     M4       Ston rod thread     M4       Cushioning     Elastic cushioning rings/pads at both ends       Mounting position     Any       Conforms to standard     ISO 21287       Piston rod end     Internal thread       Position sensing     For proxinity sensor       Symbol     00991217       Variants     Piston rod at one end       Operating pressure     0.1 MPa 1 MPa       Operating pressure     1 bar 10 bar       Operating medium     Compressed air as per ISO 8573-1:2010[7:4:4]       Operating necture     20 °C 80 °C       Corrosion resistance class (CRC)     2 - Moderate corrosion stress       LABS conformity     VDMA24364-B1/82-L       Ambient temperature     -20 °C 80 °C       Impact als per store     15 g       Additional weight per 10 nm stroke     15 g       Additional weight per 10 nm stroke     79 g       Additional weight with 0 mm stroke     79 g       Preumatic connection     M5       Note on materials     RoH5-compliant       Cover materia	Feature	Value
Piston rod thread     M4       Type code     ADN       Cushioning     Elastic cushioning rings/pads at both ends       Mounting position     Any       Conforms to standard     ISO 21287       Piston rod end     Internal thread       Position sensing     For proximity sensor       Symbol     00991217       Variants     Piston rod at one end       Operating pressure     0.1 MPa 1 MPa       Operating pressure     1 bar 10 bar       Mode of operation     Double-acting       Operation on operating and pilot media     Operation with oil lubrication possible (required for further use)       Corrosion resistance class (CRC)     2 · Moderate corrosion stress       LABS conformity     VDMA24364-B1/B2-L       Ambient temperature     20 °C 80 °C       Impact energy in the end positions     0.15 J       Theoretical force at 6 bar, retracting     90 N       Moditional weight per 10 mm stroke     79 g       Additional weight per 10 mm stroke     79 g       Additional weight per 10 mm stroke     4 g       Type of mounting     Optionally:- With internal thrread <t< td=""><td>Stroke</td><td>30 mm</td></t<>	Stroke	30 mm
Type codeADNCushioningElastic cushioning rings/pads at both endsMounting positionAnyConforms to standardISO 21287Piston rol endInternal threadPosition sensingFor proximity sensorSymbol00991217VariantsPiston rol at one endOperating pressure0.1 MPa 1 MPaOperating pressure0.1 MPa 1 MPaOperating 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 conformityVDMA24364-B1/B2-LAmbient temperature-20 °C 80 °CImpact energy in the end positions15 gAdditional weight per 10 mm stroke15 gBasic weight with 0 mm stroke79 gAdditional weight per 10 mm stroke79 gAdditional weight per 10 mm stroke4 gType of mountingOptionally: With internal threadPreumatic connectionM5Note on materialsRoHS-compliantCover materialAnologizedSource connectionM5Note on materialsFor JUPUR)	Piston diameter	16 mm
CushioningElastic cushioning rings/pads at both endsMounting positionAnyConforms to standardISO 21287Piston rod endInternal threadPosition sensingFor proximity sensorSymbol00991217VariantsPiston rod at one endOperating pressure0.1 MPa 1 MPaOperating pressure1 bar 10 barMode of operationDouble-actingOperating and pilot mediaOperation genesistance class (CRC)2 - Moderate corrosion stress2- Moderate corrosion stressLABS conformityVDMA24364-B1/B2-LAmbient temperature-20 °C 80 °CInterretial force at 6 bar, retracting90 NTheoretical force at 6 bar, avancing15 gAdditional weight per 10 nm stroke14 gBasic weight with 0 nm stroke19 gAdditional weight per 10 nm stroke4 gType of mountingOptionally: With increal thread With intrough-hole With intrough-hole With introagh-hole With introagh-hole With introagh-hole With introagh-hole With introagh-hole With introagh-hole With intreadherad Modizad Seals materialPoE-LOPURD	Piston rod thread	M4
Mounting position   Any     Conforms to standard   ISO 21287     Piston rod end   Internal thread     Position sensing   For proximity sensor     Symbol   00991217     Variants   Piston rod at one end     Operating pressure   0.1 MPa 1 MPa     Operating pressure   1 bar 10 bar     Mode of operation   Double-acting     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 conformity   VDMA24364-81/82-L     Ambient temperature   -20 °C 80 °C     Impact energy in the end positions   0.15 J     Theoretical force at 6 bar, retracting   90 N     Theoretical force at 6 bar, advancing   121 N     Moving mass at 0 mm stroke   14 g     Basic weight with 0 mm stroke   29 g     Additional moving mass per 10 mm stroke   4 g     Type of mounting   Optionally: With internal thread With internal thread     Note on materials   RoHS-compliant     Cover material	Type code	ADN
Conforms to standardISO 21287Piston rod endInternal threadPosition sensingFor proximity sensorSymbol00991217VariantsPiston rod at one endOperating pressure0.1 MPa 1 MPaOperating pressure1 bar 10 barMode of operationDouble-actingOperating and pilot mediaOperation with oil lubrication possible (required for further use)Corrosion resistance class (CRC)2 - Moderate corrosion stressLABS conformityVDMA24364-B1/B2-LAmbient temperature-20 °C 80 °CInformation on parts of a davancing121 NMoving mass at 0 mm stroke15 gAdditional weight per 10 mm stroke14 gBasic weight with 0 mm stroke79 gAdditional moving mass per 10 mm stroke4 gType of mountingOptionally: With through-hole With internal thread Mith accessoriesPneumatic connectionM5Note on materialsRoHS-compliant AnodizedCover materialAluminum AnodizedSeals materialTPE-U(PUR)	Cushioning	Elastic cushioning rings/pads at both ends
Piston rod endInternal threadPosition sensingFor proximity sensorSymbol00991217VariantsPiston rod at one endOperating pressure0.1 MPa 1 MPaOperating pressure1 bar 10 barMode of operationDouble-actingOperating and pilot mediaOperation with oil lubrication possible (required for further use)Corrosion resistance class (CRC)2 - Moderate corrosion stressLABS conformityVDMA24364-B1/B2-LAmbient temperature-20 °C 80 °CImpact energy in the end positions0.15 JTheoretical force at 6 bar, retracting90 NTheoretical force at 6 bar, advancing121 NMoving mass at 0 mm stroke14 gBasic weight with 0 mm stroke79 gAdditional weight per 10 mm stroke4 gType of mountingWith Inrough-hole With intrenal thread With internal thread <td>Mounting position</td> <td>Any</td>	Mounting position	Any
Position sensingFor proximity sensorSymbol00991217VariantsPiston rod at one endOperating pressure0.1 MPa 1 MPaOperating pressure1 bar 10 barMode of operationDouble-actingOperating 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 conformityVDMA24364-B1/B2-LAmbient temperature-20 °C 80 °CImpact energy in the end positions0.15 JTheoretical force at 6 bar, retracting90 NTheoretical force at 6 bar, advancing121 NMoving mass at 0 mm stroke15 gAdditional weight per 10 mm stroke79 gAdditional moving mass per 10 mm stroke4 gType of mountingOptionally: With ntrough-hole With internal thread With internal thread 	Conforms to standard	ISO 21287
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AviantsPistor rod at one endOperating pressure0.1 MPa 1 MPaOperating pressure1 bar 10 barMode of operationDouble-actingOperating 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 conformityVDMA24364-B1/B2-LAmbient temperature-20 °C 80 °CImpact energy in the end positions0.15 JTheoretical force at 6 bar, retracting90 NTheoretical force at 6 bar, advancing121 NMoving mass at 0 mm stroke15 gAdditional weight per 10 mm stroke14 gBasic weight with 0 mm stroke79 gAdditional moving mass per 10 mm stroke4 gType of mountingOptionally: With through-hole With internal thread With accessoriesPneumatic connectionM5Note on materialsRoHS-compliantCover materialAluminum AnodizedSeals materialTPE-U(PUR)	Position sensing	For proximity sensor
Operating pressure0.1 MPa 1 MPaOperating pressure1 bar 10 barMode of operationDouble-actingOperating 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 conformityVDMA24364-B1/B2-LAmbient temperature-20 °C 80 °CImpact energy in the end positions0.15 JTheoretical force at 6 bar, retracting90 NTheoretical force at 6 bar, advancing121 NMoving mass at 0 mm stroke15 gAdditional weight per 10 mm stroke14 gBasic weight with 0 mm stroke79 gAdditional moving mass per 10 mm stroke4 gType of mountingOptionally: With hrough-hole With internal thread With accessoriesPneumatic connectionM5Note on materialsRoHS-compliantCover materialTPE-U(PUR)	Symbol	00991217
JohnJohnOperating pressure1 bar 10 barMode of operationDouble-actingOperating 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 conformityVDMA24364-B1/B2-LAmbient temperature-20 °C 80 °CImpact energy in the end positions0.15 JTheoretical force at 6 bar, retracting90 NTheoretical force at 6 bar, advancing121 NMoving mass at 0 mm stroke15 gAdditional weight per 10 mm stroke14 gBasic weight with 0 nm stroke79 gAdditional moving mass per 10 mm stroke4 gType of mountingOptionally: With through-hole With internal thread With accessoriesPneumatic connectionM5Note on materialsRoHS-compliantCover materialAluminum AnodizedSeals materialTPE-U(PUR)	Variants	Piston rod at one end
Note of operationDouble-actingOperating 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 conformityVDMA24364-B1/B2-LAmbient temperature-20 °C 80 °CImpact energy in the end positions0.15 JTheoretical force at 6 bar, retracting90 NTheoretical force at 6 bar, advancing121 NMoving mass at 0 mm stroke15 gAdditional weight per 10 mm stroke14 gBasic weight with 0 mm stroke79 gAdditional moving mass per 10 mm stroke4 gType of mountingOptionally: With through-hole With internal thread With internal thread With internal thread With internal thread With internal thread With internal thread With accessoriesPneumatic connectionM5Note on materialsRoHS-compliantCover materialAluminum AnodizedSeals materialTPE-U(PUR)	Operating pressure	0.1 MPa 1 MPa
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)Corrosion resistance class (CRC)2 - Moderate corrosion stressLABS conformityVDMA24364-B1/B2-LAmbient temperature-20 °C 80 °CImpact energy in the end positions0.15 JTheoretical force at 6 bar, retracting90 NTheoretical force at 6 bar, advancing121 NMoving mass at 0 mm stroke15 gAdditional weight per 10 mm stroke79 gAdditional moving mass per 10 mm stroke4 gType of mountingOptionally: With through-hole With internal thread With internal thread With internal thread With internal thread With accessoriesPneumatic connectionM5Note on materialsRoHS-compliantCover materialAluminum AnodizedSeals materialTPE-U(PUR)	Operating pressure	1 bar 10 bar
Information on operating and pilot mediaOperation with oil lubrication possible (required for further use)Corrosion resistance class (CRC)2 · Moderate corrosion stressLABS conformityVDMA24364-B1/B2-LAmbient temperature-20 °C 80 °CImpact energy in the end positions0.15 JTheoretical force at 6 bar, retracting90 NTheoretical force at 6 bar, advancing121 NMoving mass at 0 mm stroke15 gAdditional weight per 10 mm stroke14 gBasic weight with 0 mm stroke79 gAdditional moving mass per 10 mm stroke4 gType of mountingOptionally: With through-hole With accessoriesPneumatic connectionM5Note on materialsRoHS-compliantCover materialAluminum AnodizedSeals materialTPE-U(PUR)	Mode of operation	Double-acting
Corrosion resistance class (CRC)2 - Moderate corrosion stressLABS conformityVDMA24364-B1/B2-LAmbient temperature-20 °C 80 °CImpact energy in the end positions0.15 JTheoretical force at 6 bar, retracting90 NTheoretical force at 6 bar, advancing121 NMoving mass at 0 mm stroke15 gAdditional weight per 10 mm stroke14 gBasic weight with 0 mm stroke79 gAdditional moving mass per 10 mm stroke4 gType of mountingOptionally: With through-hole With internal thread With accessoriesPneumatic connectionM5Note on materialsRoHS-compliantCover materialAluminum AnodizedSeals materialTPE-U(PUR)	Operating medium	Compressed air as per ISO 8573-1:2010 [7:4:4]
LABS conformityVDMA24364-B1/B2-LAmbient temperature-20 °C 80 °CImpact energy in the end positions0.15 JTheoretical force at 6 bar, retracting90 NTheoretical force at 6 bar, advancing121 NMoving mass at 0 mm stroke15 gAdditional weight per 10 mm stroke14 gBasic weight with 0 mm stroke79 gAdditional moving mass per 10 mm stroke4 gType of mountingOptionally: With through-hole With internal thread With accessoriesPneumatic connectionM5Note on materialsRoHS-compliantCover materialAluminum AnodizedSeals materialTPE-U(PUR)	Information on operating and pilot media	Operation with oil lubrication possible (required for further use)
Ambient temperature-20 °C 80 °CImpact energy in the end positions0.15 JTheoretical force at 6 bar, retracting90 NTheoretical force at 6 bar, advancing121 NMoving mass at 0 mm stroke15 gAdditional weight per 10 mm stroke14 gBasic weight with 0 mm stroke79 gAdditional moving mass per 10 mm stroke4 gType of mountingOptionally: With through-hole With internal thread With accessoriesPneumatic connectionM5Note on materialsRoHS-compliantCover materialAluminum AnodizedSeals materialTPE-U(PUR)	Corrosion resistance class (CRC)	2 - Moderate corrosion stress
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Additional moving mass per 10 mm stroke4 gType of mountingOptionally: With through-hole With internal thread With accessoriesPneumatic connectionM5Note on materialsRoHS-compliantCover materialAluminum AnodizedSeals materialTPE-U(PUR)	Additional weight per 10 mm stroke	14 g
Type of mounting   Optionally:     With through-hole   With through-hole     With internal thread   With accessories     Pneumatic connection   M5     Note on materials   RoHS-compliant     Cover material   Aluminum Anodized     Seals material   TPE-U(PUR)	Basic weight with 0 mm stroke	79 g
With through-hole With internal thread With internal thread With accessoriesPneumatic connectionM5Note on materialsRoHS-compliantCover materialAluminum AnodizedSeals materialTPE-U(PUR)	Additional moving mass per 10 mm stroke	4 g
Note on materials RoHS-compliant   Cover material Aluminum Anodized   Seals material TPE-U(PUR)	Type of mounting	With through-hole With internal thread
Cover material Aluminum Anodized Seals material TPE-U(PUR)	Pneumatic connection	M5
Anodized   Seals material   TPE-U(PUR)	Note on materials	RoHS-compliant
	Cover material	
Piston rod material High-alloy steel	Seals material	TPE-U(PUR)
	Piston rod material	High-alloy steel

## **FESTO**



Feature	Value
Material of cylinder barrel	Wrought aluminum alloy Smooth anodized