

# compact cylinder

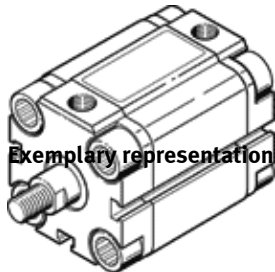
## ADVU-12- -A-P-A-R3

Part number: 176851  
Classic - do not use for new projects

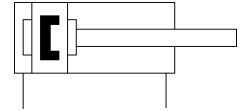
FESTO

For proximity sensing. Piston-rod end with male thread  
Modern alternatives can be found by entering the first four characters of the type code in the search field.

Type to be discontinued. Available until 2025. See Support Portal for alternative products.



Exemplary representation



## Data sheet

Feature	Value
Stroke	1 ... 200 mm
Piston diameter	12 mm
Cushioning	P: Flexible cushioning rings/plates at both ends
Assembly position	Any
Mode of operation	double-acting
Piston-rod end	Male thread
Design structure	Piston Piston rod
Position detection	For proximity sensor
Variants	Excellent corrosion protection
Operating pressure MPa	0.12 ... 1 MPa
Operating pressure	1.2 ... 10 bar 17.4 ... 145 psi
Operating medium	Compressed air in accordance with ISO8573-1:2010 [7:4:4]
Note on operating and pilot medium	Lubricated operation possible (subsequently required for further operation)
Corrosion resistance classification CRC	3 - High corrosion stress
PWIS conformity	VDMA24364-B1/B2-L
Ambient temperature	-20 ... 80 °C
Impact energy in end positions	0.07 J
Theoretical force at 0.6 MPa (6 bar, 87 psi), retracting	51 N
Theoretical force at 0.6 MPa (6 bar, 87 psi), advance	68 N
Moving mass with 0 mm stroke	8 g
Additional mass factor per 10 mm of stroke	2 g
Basic weight for 0 mm stroke	87 g
Additional weight per 10 mm stroke	15 g
Mounting type	with through hole with accessories Optional
Pneumatic connection	M5
Material of flange screw	High alloy steel, non-corrosive
Material cover	Wrought Aluminium alloy
Material of dynamic seals	NBR TPE-U(PU)
Material piston rod	High alloy steel, non-corrosive
Material cylinder barrel	Wrought Aluminium alloy