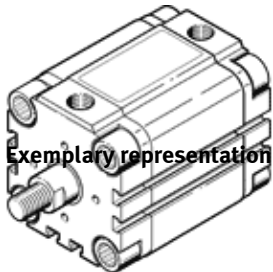


# Compact cylinder

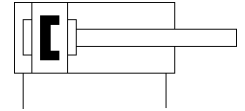
## ADVU-50- -A-P-A-R3

Part number: 176857  
 Classic - do not use for new projects

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 ... 300 mm
Piston diameter	50 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	0.08 ... 1 MPa
Working pressure	0.8 ... 10 bar
Operating pressure	11.6 ... 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	0.64 J
Theoretical force at 0.6 MPa (6 bar, 87 psi), retracting	1,056 N
Theoretical force at 0.6 MPa (6 bar, 87 psi), advance	1,178 N
Moving mass with 0 mm stroke	112 g
Additional mass factor per 10 mm of stroke	16 g
Basic weight for 0 mm stroke	560 g
Additional weight per 10 mm stroke	72 g
Mounting type	with through hole with accessories Optional
Pneumatic connection	G1/8
Material of flange screw	High alloy steel, non-corrosive
Material cover	Wrought Aluminum alloy
Material of dynamic seals	NBR TPE-U(PU)
Material piston rod	High alloy steel, non-corrosive
Material cylinder barrel	Wrought Aluminum alloy