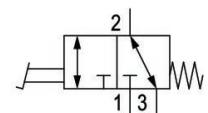
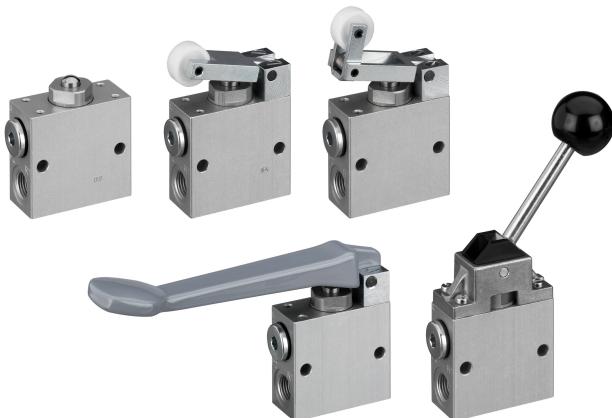


## Series AP - inch

Qn = [[150 ... 250] l/min]



## Technical data

Industry	Industrial
Activation	Mechanical
Valve type	Poppet valve
Plate connection	Pipe connection
Actuating element	Pedal
Compressed air connection type	Internal thread
Compressed air connection input	G 1/4
Compressed air connection output	G 1/4
Compressed air connection, exhaust	G 1/4
Nominal flow Qn	550 l/min
Min. working pressure	0 bar
Max. working pressure	10 bar
Min. ambient temperature	-30 °C
Max. ambient temperature	80 °C
Min. medium temperature	-30 °C
Max. medium temperature	80 °C
Medium	Compressed air
Min. oil content of compressed air	0 mg/m³

# 3/2-directional valve, Series AP

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Max. oil content of compressed air                    5 mg/m<sup>3</sup>  
Max. particle size                                    5 µm

Weight    1.2 kg

## Material

Housing material                                    Aluminum  
Seal material    Acrylonitrile butadiene rubber  
Material actuating control                            Aluminum  
Part No.    0820400006

## Technical information

Sound pressure level measured at 6 bar at 1 m distance

The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!

The pressure dew point must be at least 15 °C less than ambient and medium temperature and may not exceed 3 °C.

The oil content of compressed air must remain constant during the life cycle.

Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in <https://www.emerson.com/en-us/support>).

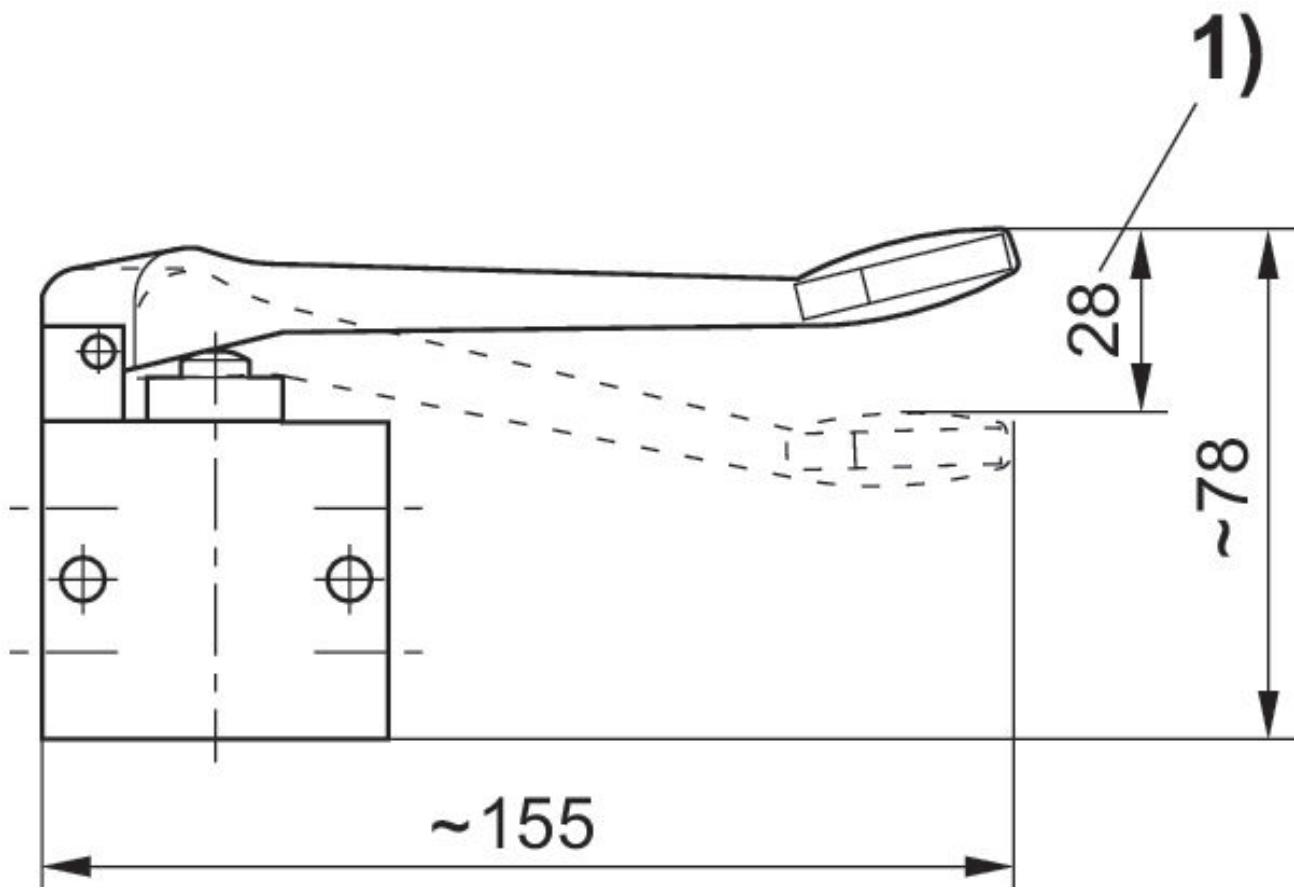
## Dimensions

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Fig. 4



1) actuating stroke

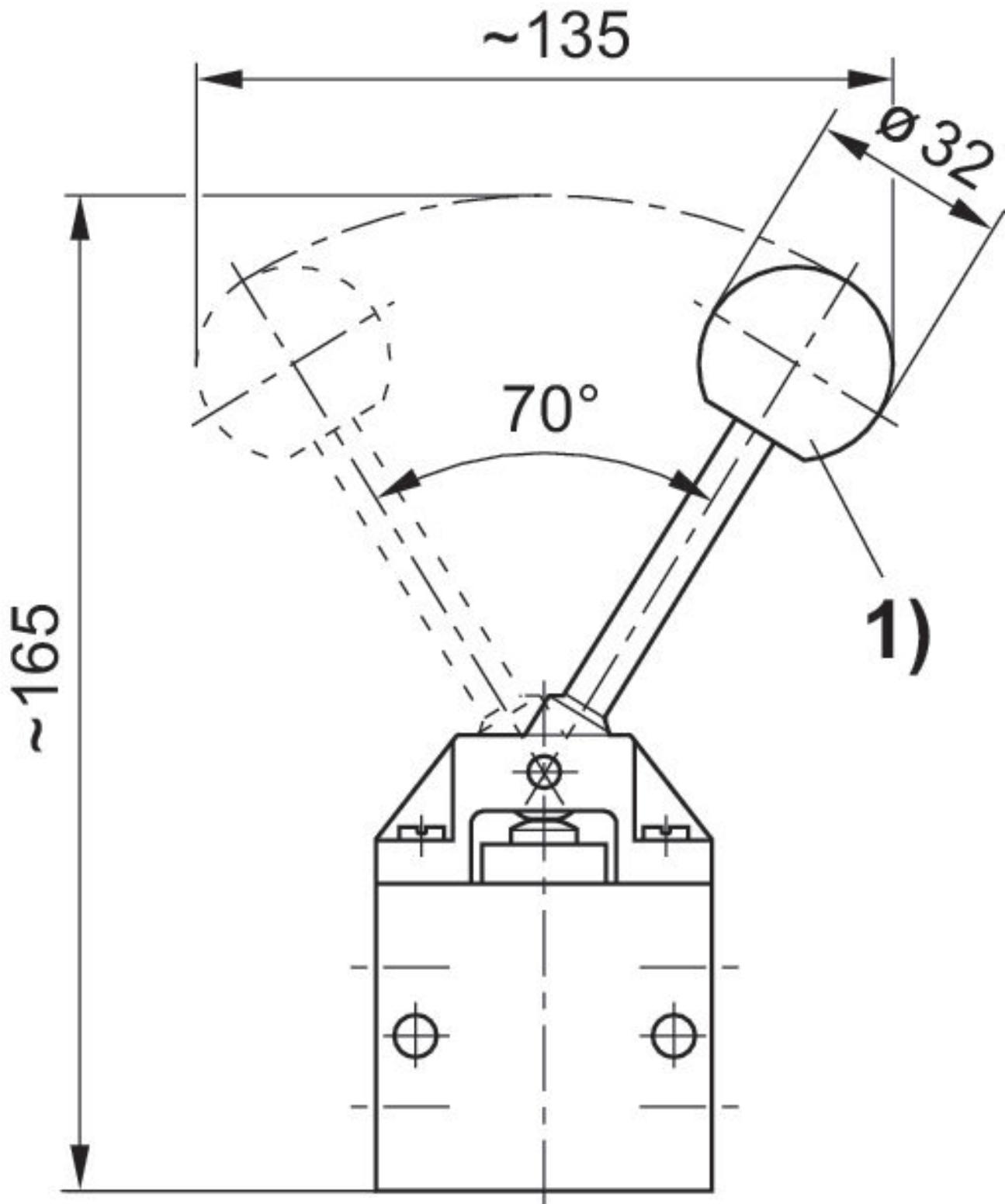
## Dimensions

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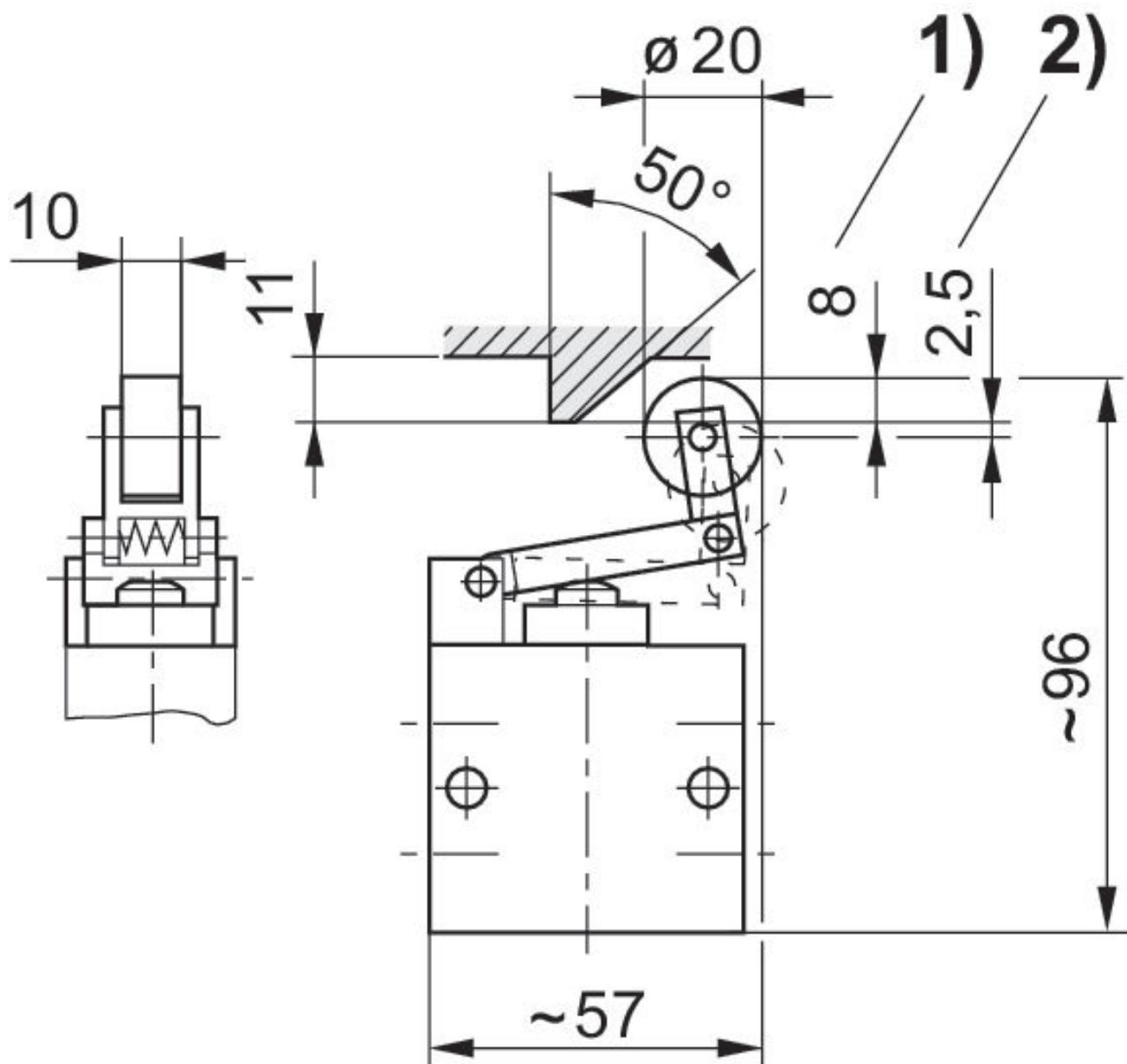
Fig. 5



actuating torque: 40 Ncm  
1) Ball

## Dimensions

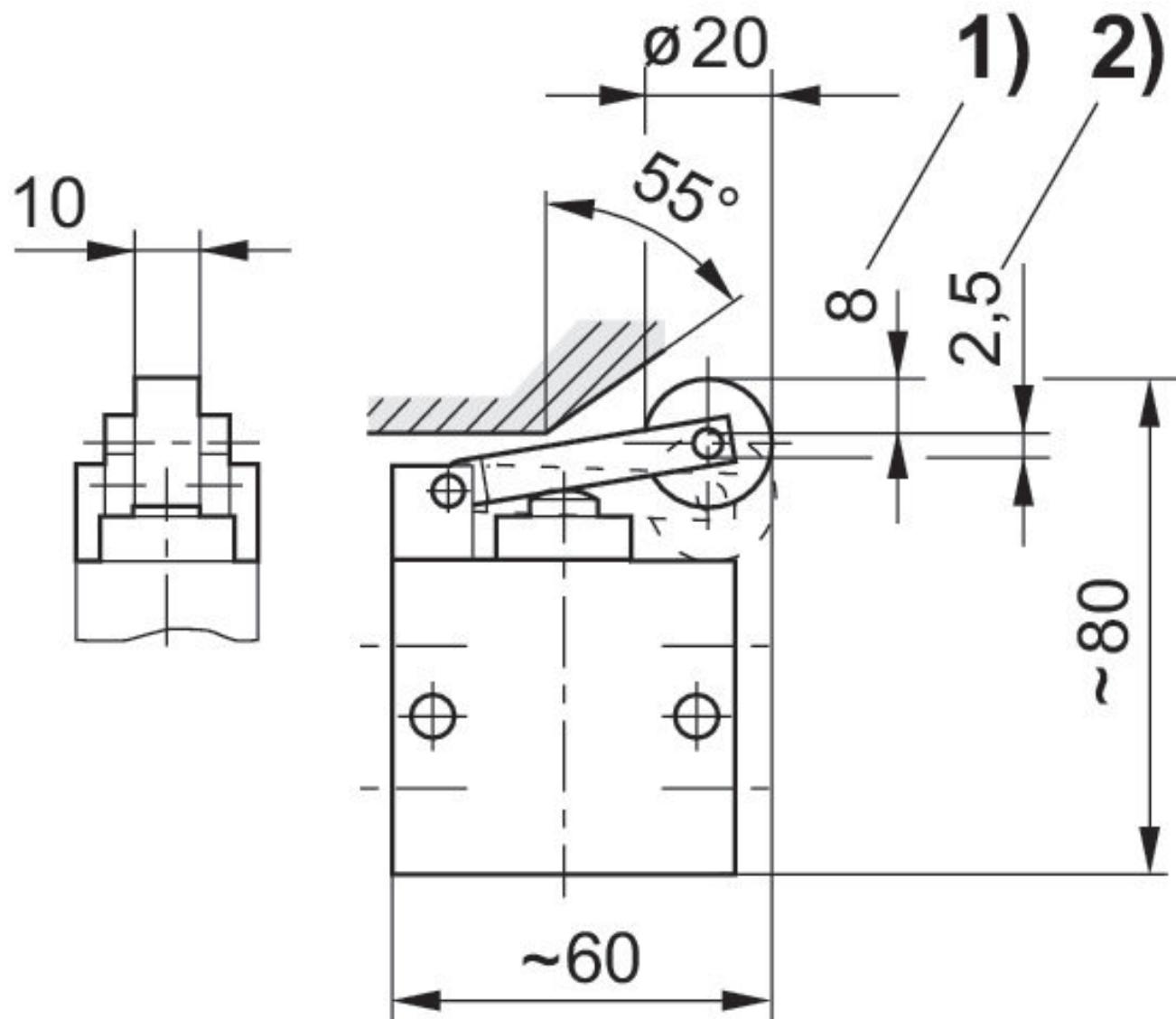
Fig. 3



1) actuating stroke 2) overstroke

## Dimensions

Fig. 2



1) actuating stroke 2) overstroke

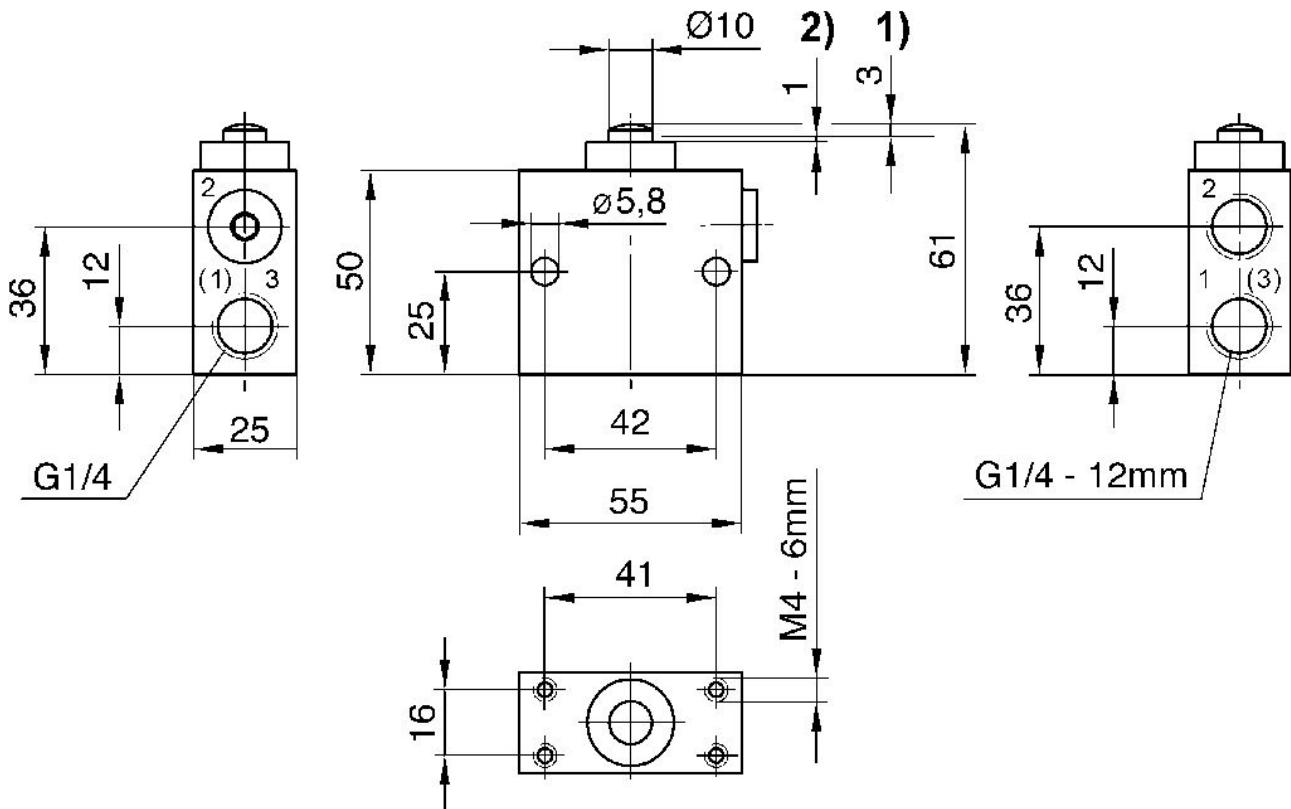
## Dimensions

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Fig. 1



1) actuating stroke 2) overstroke

Dimensions of basic valve apply to all types of actuation.

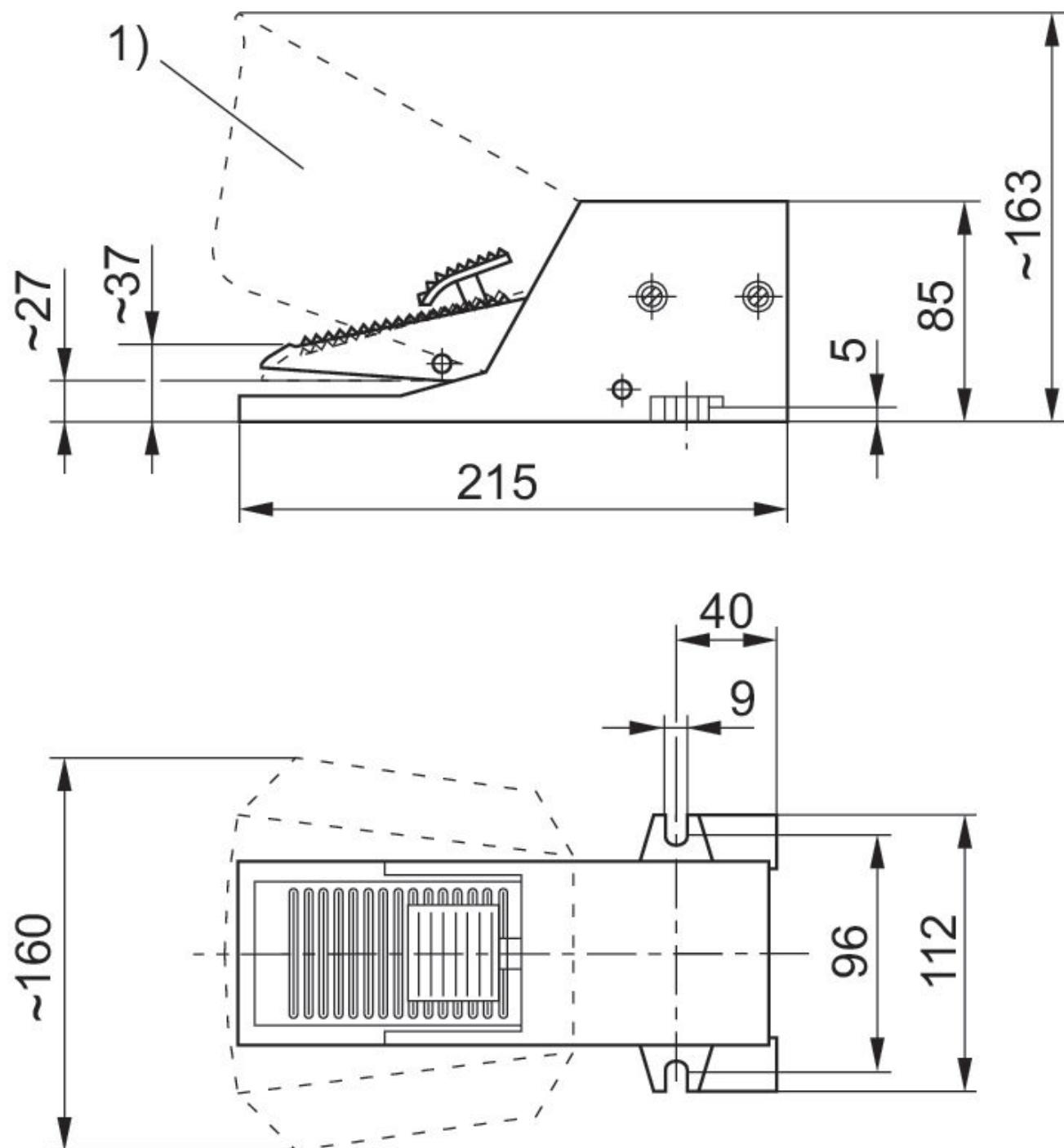
## Dimensions

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Fig. 7



1) optional protective cover, part number 1828104002

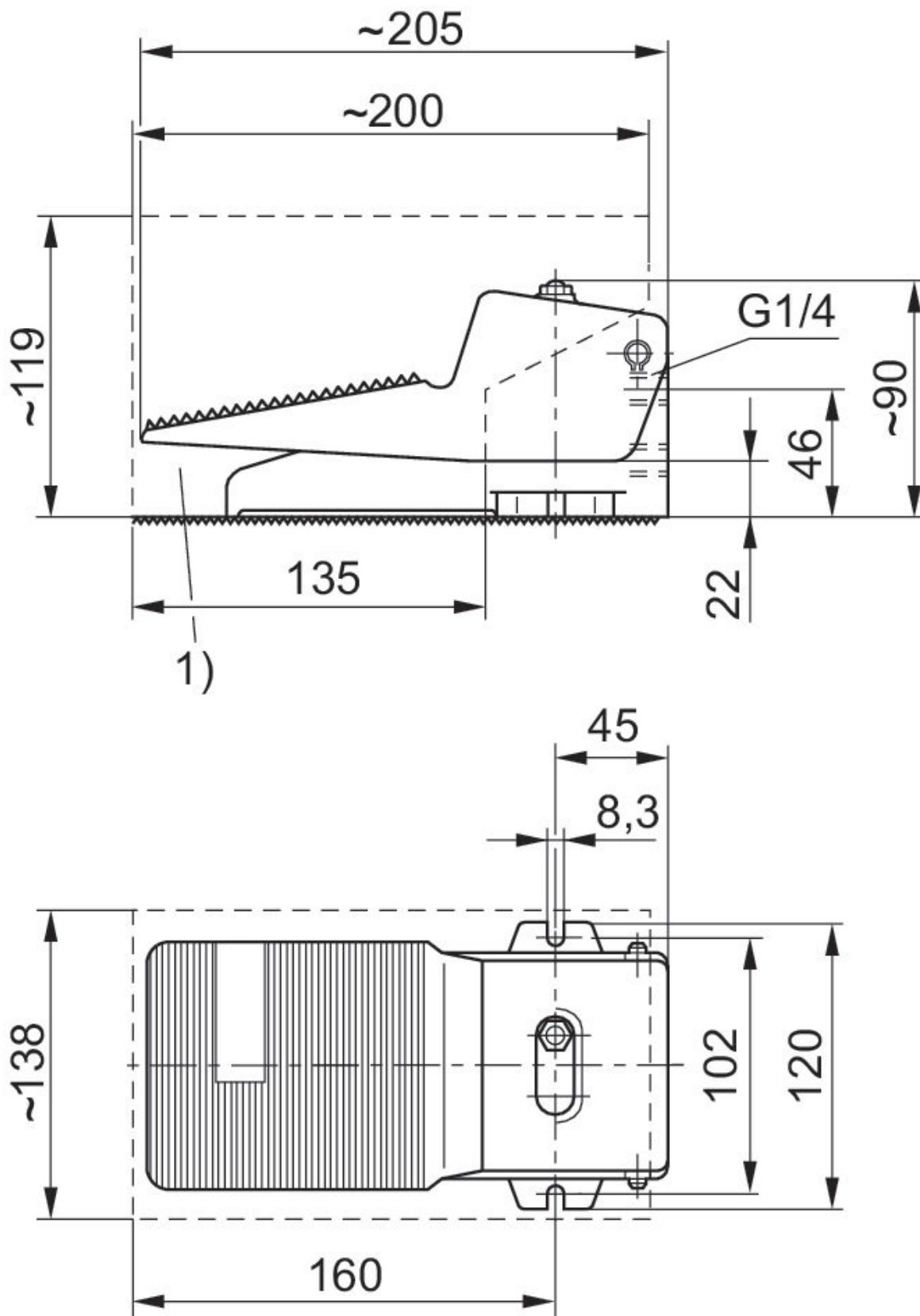
# 3/2-directional valve, Series AP

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## Dimensions

Fig. 6



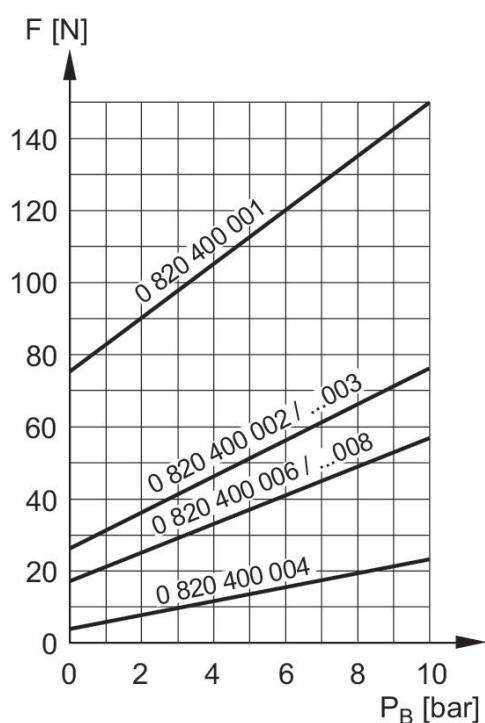
1) optional protective cover, part number 1828104001

# 3/2-directional valve, Series AP

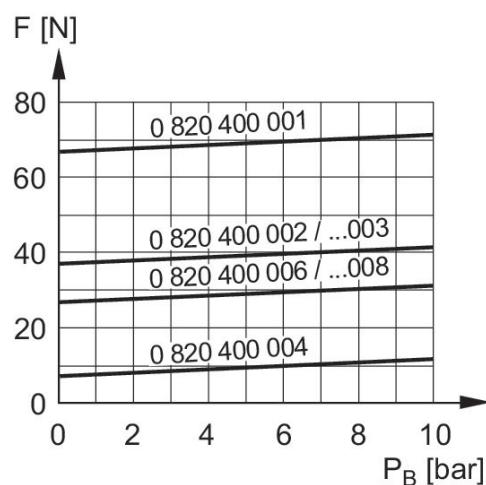
2023-11-27

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Compressed air at port 3



Actuating force+  
Compressed air at port 1



$F$  = actuating force  
 $P_B$  = Working pressure