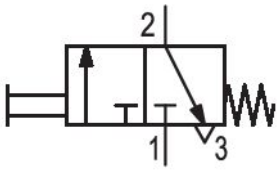
Series AP - inch

R450055453

General series information
Series AP - inch

- The AVENTICS Series AP offers a wide range of poppet valves with aluminium housing. With many actuation control versions available (roller, lever, pedal, push-button or plunger) the AP Series is the universal solution for automation systems and panel installation.



Technical data

Industry	Industrial
Activation	Mechanical
Switching principle	3/2
Compressed air connection output	1/8-27 NPTF
Working pressure min.	0 bar
Working pressure max	10 bar
Actuating element	panel installation
Type	Poppet valve
Plate connection	Pipe connection
Min. ambient temperature	-30 °C
Max. ambient temperature	80 °C
Min. medium temperature	-30 °C
Max. medium temperature	80 °C
Medium	Compressed air
Oil content of compressed air min.	0 mg/m³

Oil content of compressed air max.	5 mg/m³
Max. particle size	5 µm

Compressed air connection type	Internal thread
Compressed air connection input	1/8 NPT
Compressed air connection, exhaust	1/8 NPT
Nominal flow Qn 1 to 2	250 l/min
Nominal flow Qn 2 to 3	150 l/min
Weight	0.09 kg
Housing material	Aluminum
Seal material	Acrylonitrile butadiene rubber
Part No.	R450055453

Technical information

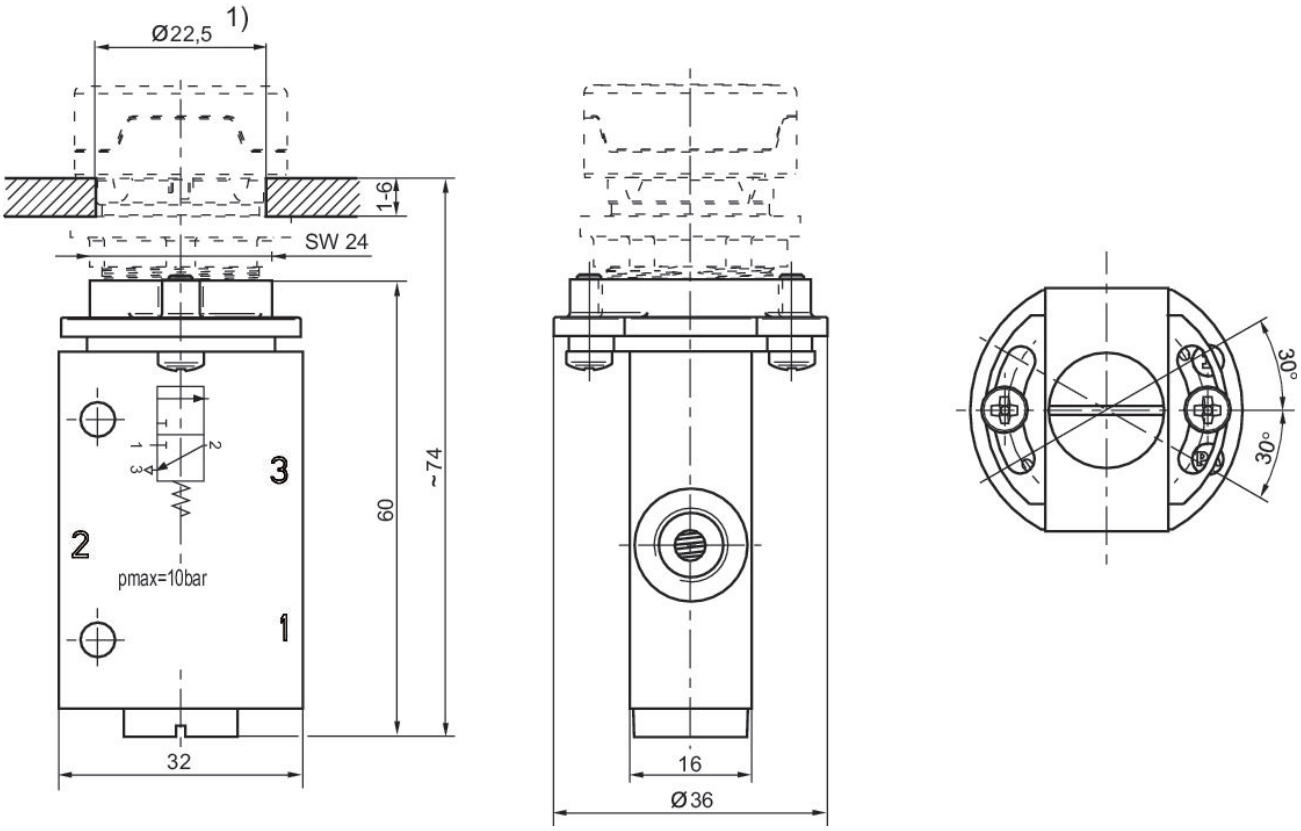
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!

The pressure dew point must be at least 15 °C under 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).

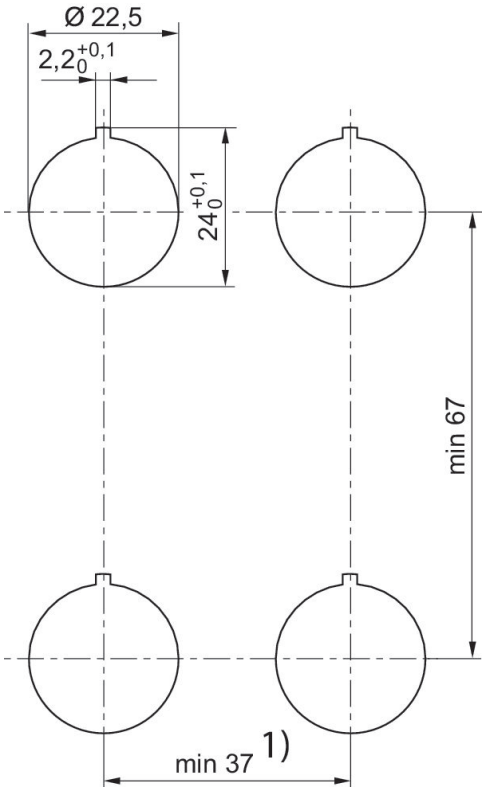
Dimensions



1) cut-out in the front plate

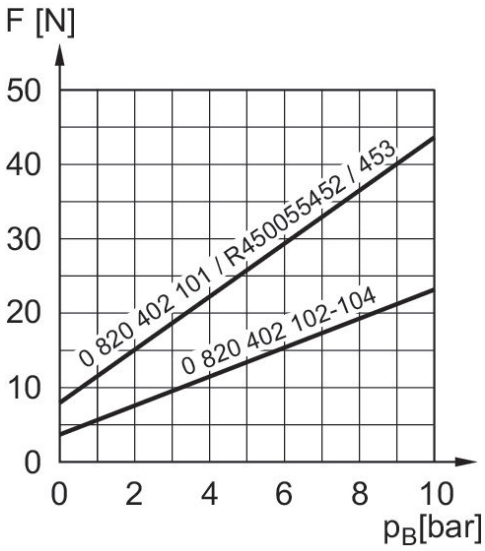
Dimensions

cut-out in the front plate



1) For the mushroom buttons (R412012738, R412012739, R412012740) a minimum distance [[41] mm] must be ensured.

Actuating force+



F = actuating force
P_B = Working pressure