3/2-directional valve, Series A-Pilotair®

R431004537

General series information AVENTICS Series A-Pilotair Directional valves

■ manually operated



Technical data

Industry Industrial Type 2-HA-4

3 positions both handles

Activation Manual

Nominal flow Qn 1308.72 l/min

Compressed air connection output Ø 1/4" Working pressure min. 0 bar

Working pressure max 13.7 bar Sealing principle Soft Seal

Sealing principle Soft Seal

Type
Poppet valve

Type Poppet valve Type 2-HA-4

Type 2-HA-4
Control pressure min. 0 bar

Control pressure max. 17.2 bar Min. ambient temperature -40 °C Max. ambient temperature 71 °C

Min. medium temperature -40 °C Max. medium temperature 71 °C

Medium Compressed air

Oil content of compressed air min. 0 mg/m³



Oil content of compressed air max. 1 mg/m³
Max. particle size 50 μm

Compressed air connection input Ø 1/4"
Weight 1.81 kg

Housing material Die-cast aluminum Part No. R431004537

Technical information

The 2-HA-3 and 2-HA-4 models are an extension of the 2-HA-2 models. They were created to furnish a housing that will operate up to four 3-way valves to provide a variety of functions.

These valves were designed primarily for use with multi position cylinders for Transmission Controls. They also meet the application requirements for two different supply pressures, selector functions and directional control of up to four different circuits.

It is possible to operate all four valves with a single handle or in any combination from one to three valves with the left-hand handle or with the right-hand handle.

Double handle assemblies are provided for space conservation and for applications requiring two handles located adjacent to each other. Thus, two different functions can be controlled. As an example, the left handle can control direction (forward or reverse) and the right handle, range (1st, 2nd, 3rd and 4th gear).

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

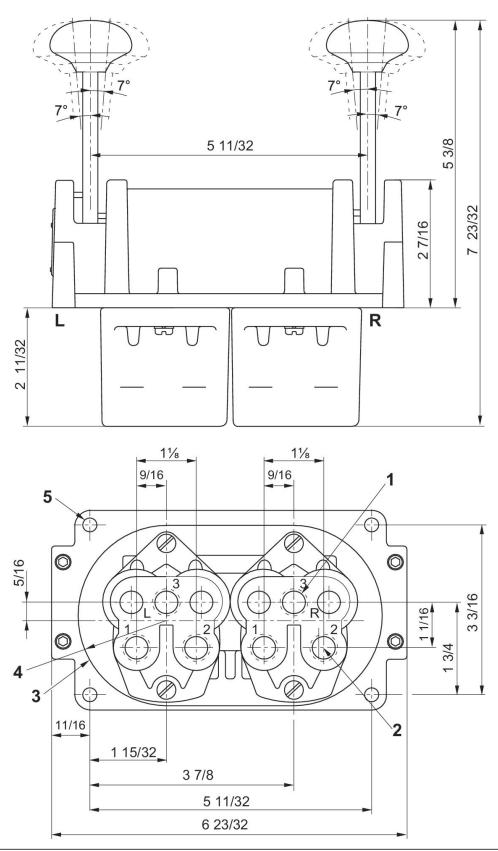
The pressure dew point must be at least 15 °C less than ambient and medium temperature and may not exceed 3 °C.

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).



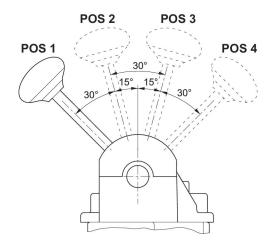
Dimensions in inches





¹⁾ Air supply
2) 1/4 - 18 NPTF 6 ports
3) panel mounting hole

4) 1 11/16 R 5) 9/32 NPTF 4 ports 3 positions both handles



Handle position		1	2	3
Out Port Supplied	OUT port 1L			Х
Out Port Supplied	OUT port 2L	Х		
Out Port Supplied	OUT port 1R			Х
Out Port Supplied	OUT port 2R	Х		

X denotes port supplied in that position. Empty block denotes port exhausted in that position.

Handle position				
Out Port Supplied	OUT port 1L			Х
Out Port Supplied	OUT port 2L	Х	Х	
Out Port Supplied	OUT port 1R			Х
Out Port Supplied	OUT port 2R	Х		

X denotes port supplied in that position. Empty block denotes port exhausted in that position.

