3/2-directional valve, Series A-Pilotair® R431004513

General series information AVENTICS Series A-Pilotair Directional valves

manually operated



Technical data

Industry Type

Activation Nominal flow Qn Compressed air connection output Working pressure min. Working pressure max Sealing principle Type Type Control pressure min. Control pressure max. Min. ambient temperature Max. ambient temperature Min. medium temperature Max. medium temperature Medium Oil content of compressed air min.

Industrial 2 positions right handle, 3 positions left handle 2-HA-3 Manual 1308.72 l/min Ø 1/4" 0 bar 13.7 bar Soft Seal Poppet valve 2-HA-3 0 bar 17.2 bar -40 °C 71 °C -40 °C 71 °C Compressed air 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.	R431004513	

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!

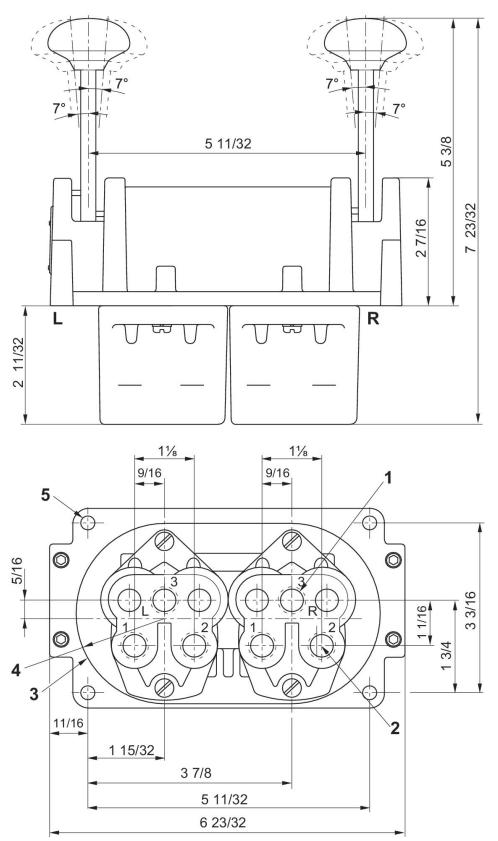
The pressure dew point must be at least 15 °C less than ambient and medium temperature and may not exceed 3 °C.

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).



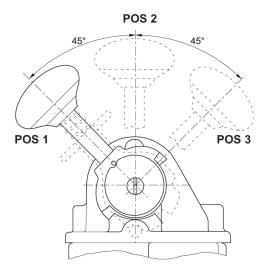
Dimensions in inches



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-position handle, detented**



2 positions right handle, 3 positions left handle

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

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

