

Series A-Pilotair®



AVENTICS™

**AVENTICS Series A-Pilotair
Directional valves**


EMERSON™

AVENTICS Series A-Pilotair Directional valves

- $Q_n = 1308,72 \text{ l/min}$
- Mechanically and manually operated valves



Product overview

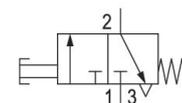
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Product overview

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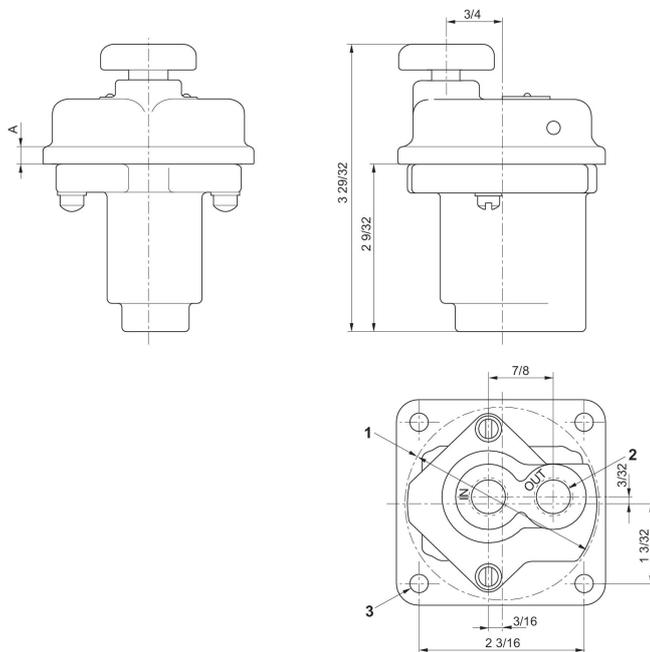
3/2-directional valve, Series A-Pilotair®

Flow: 1308.72 l/min
 Activation: Manual
 Min. control pressure: 0 bar
 Max. control pressure: 17.3 bar
 Ambient temperature min./max.: -40 °C ... 71 °C
 Medium temperature min./max.: -40 °C ... 71 °C
 Working pressure min./max.: 0 bar ... 13.7 bar



Actuating element	Valve function	Housing material	Surface housing	Type	Switching principle	Compressed air connection output	Part No.
Button	NC	Die-cast aluminum		Standard	3/2 NC, with spring return	1/4" NPTF	R431003427
Button	NC	Die-cast aluminum	chromated		3/2 NC, with spring return	1/4" NPTF	R431003429
Button	NC	Die-cast aluminum	black painted		3/2 NC, with spring return	1/4" NPTF	R431003430

Dimensions in inches



- 1) Mounting hole Ø2 9/16
- 2) 1/4 - 18 NPTF 2 ports
- 3) 9/32 diameter (4) places ports on bottom

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

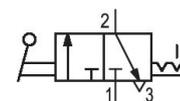
Flow: 1308.72 l/min

Activation: Manual

Ambient temperature min./max.: -40 °C ... 71 °C

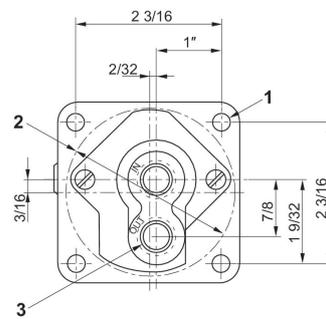
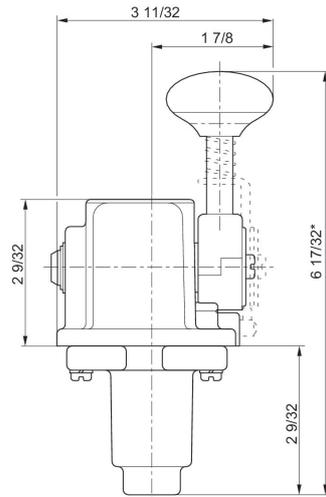
Medium temperature min./max.: -40 °C ... 71 °C

Working pressure min./max.: 0 bar ... 13.7 bar

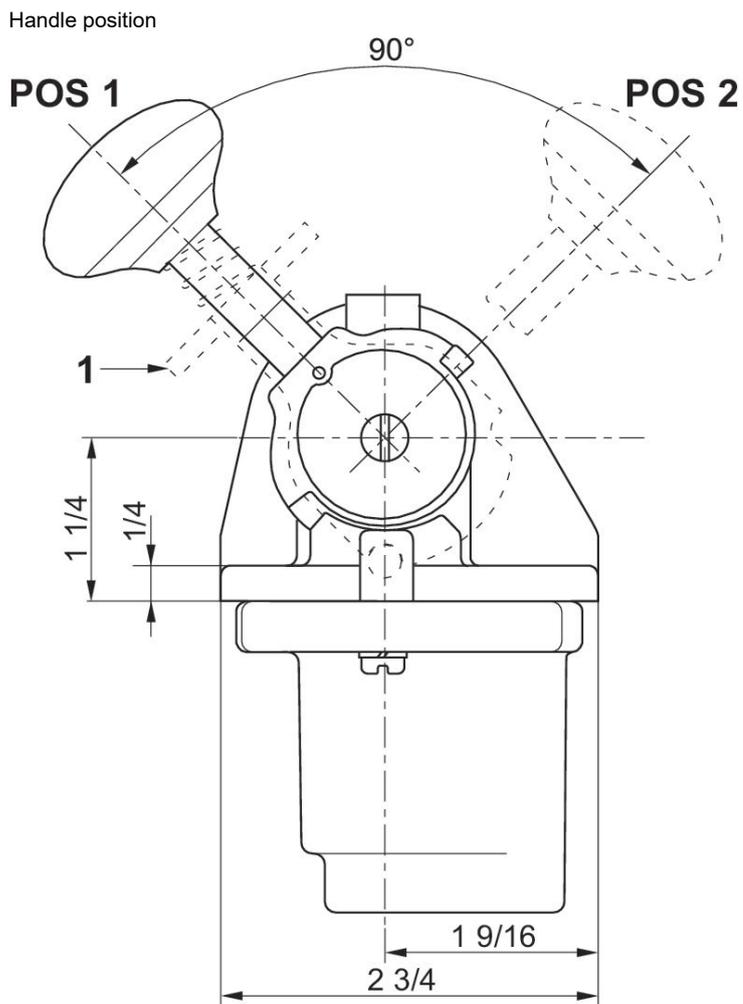


Actuating element	Housing material	Surface housing	Surface front cover	Type	Compressed air connection output	Part No.
Lever	Die-cast aluminum		chromated	with detent	Ø 1/4"	R431004994
Lever	Die-cast aluminum	chromated		with detent	Ø 1/4"	R431004996
Lever	Die-cast aluminum			with detent	Ø 1/4"	R431006456
Lever	Die-cast aluminum		chromated	With latch	Ø 1/4"	R431004997
Lever	Die-cast aluminum	chromated	black painted	With latch	Ø 1/4"	R431004999
Lever	Die-cast aluminum	black painted		With latch	Ø 1/4"	R431004998

Dimensions in inches



9/32 diameter (4) places
1) Mounting hole \varnothing 2 9/16
*Also available with handle 2" longer



1) Optional Handle Latch

Handle position

Handle position	1	2
Out Port Supplied		X
tablefooter		

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

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

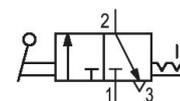
Flow: 1308.72 l/min

Activation: Manual

Ambient temperature min./max.: -40 °C ... 71 °C

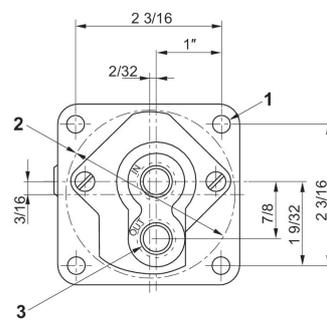
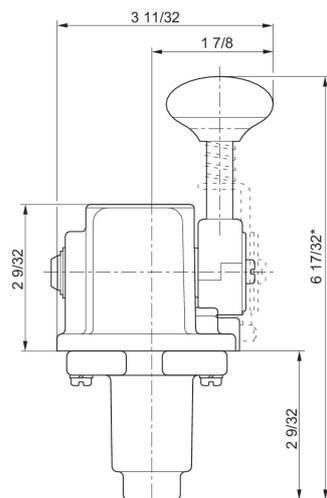
Medium temperature min./max.: -40 °C ... 71 °C

Working pressure min./max.: 0 bar ... 13.7 bar



Actuating element	Housing material	Surface housing	Surface front cover	Type	Compressed air connection output	Part No.
Lever	Die-cast aluminum	black painted	black painted	with detent	Ø 1/4"	R431005000
	Die-cast aluminum			with detent	Ø 1/4"	R431006571
	Die-cast aluminum	chromated	chromated	With latch	Ø 1/4"	R431005001
	Die-cast aluminum			With latch	Ø 1/4"	R431005002

Dimensions in inches

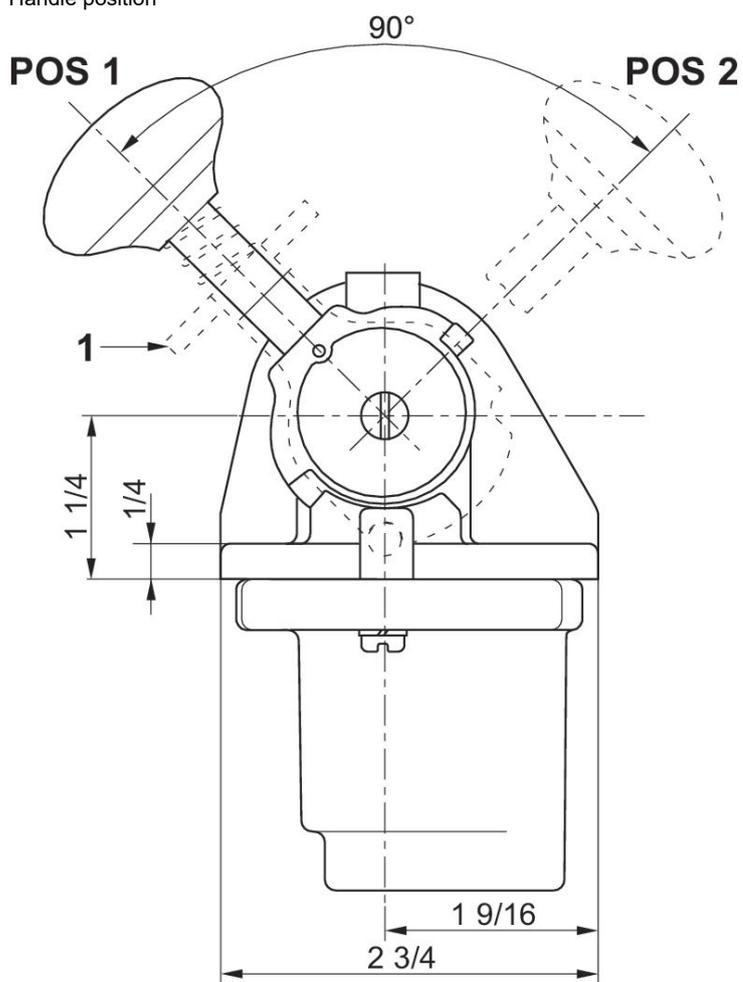


9/32 diameter (4) places

1) Mounting hole Ø2 9/16

*Also available with handle 2" longer

Handle position



1) Optional Handle Latch

Handle position

Handle position	1	2
Out Port Supplied	X	
tablefooter		

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

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

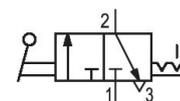
Flow: 1308.72 l/min

Activation: Manual

Ambient temperature min./max.: -40 °C ... 71 °C

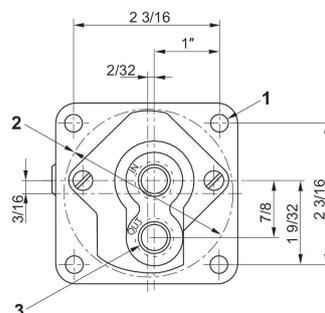
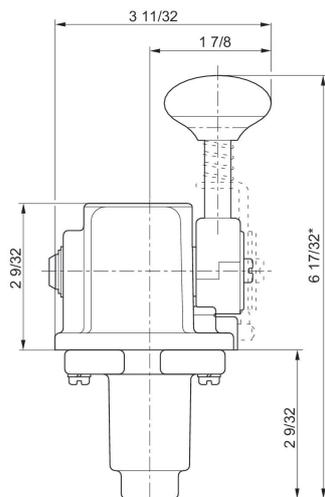
Medium temperature min./max.: -40 °C ... 71 °C

Working pressure min./max.: 0 bar ... 13.7 bar



Housing material	Compressed air connection output	Part No.
Die-cast aluminum	Ø 1/4"	R431005660

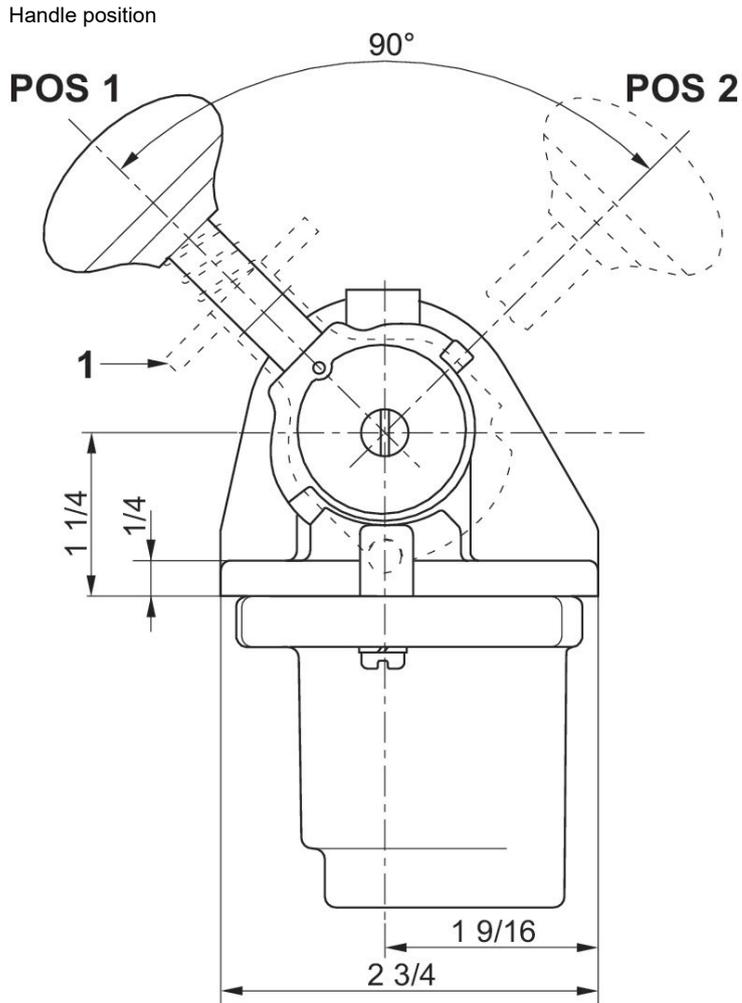
Dimensions in inches



9/32 diameter (4) places

1) Mounting hole Ø2 9/16

*Also available with handle 2" longer



1) Optional Handle Latch

Handle position

Handle position	1	Center	2
Out Port Supplied			X
tablefooter			

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

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

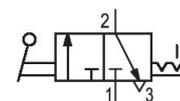
Flow: 1308.72 l/min

Activation: Manual

Ambient temperature min./max.: -40 °C ... 71 °C

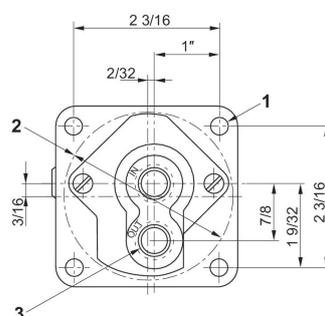
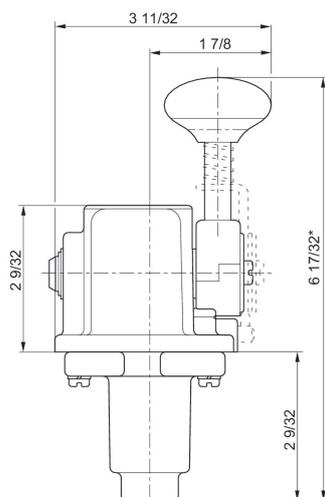
Medium temperature min./max.: -40 °C ... 71 °C

Working pressure min./max.: 0 bar ... 13.7 bar



Housing material	Compressed air connection output	Part No.
Die-cast aluminum	Ø 1/4"	R431005661

Dimensions in inches

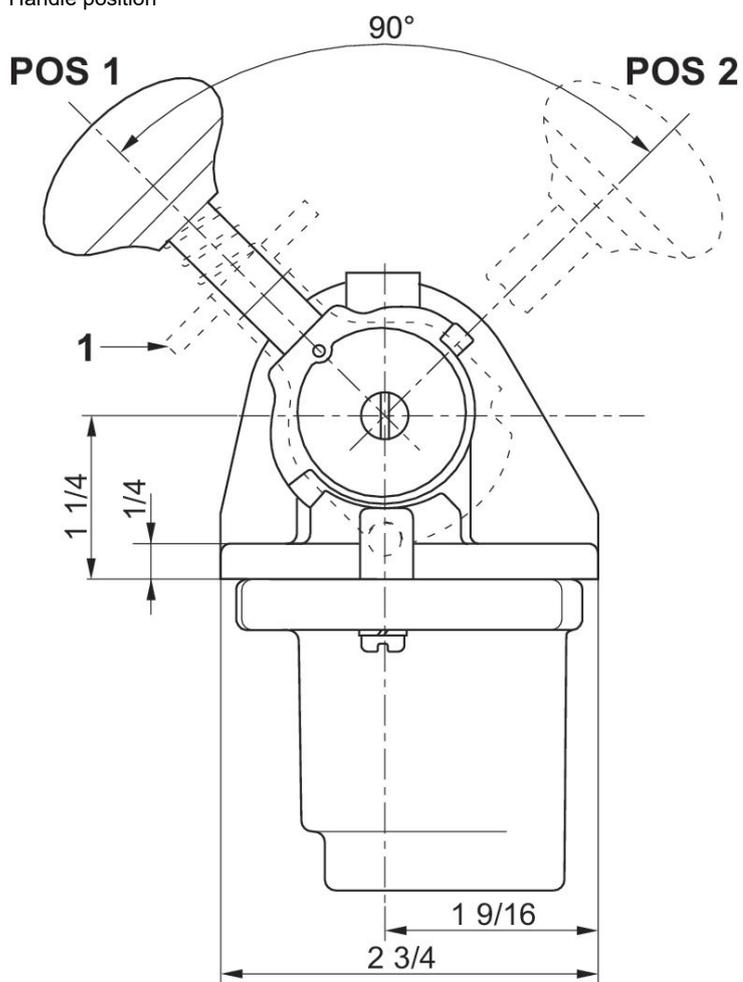


9/32 diameter (4) places

1) Mounting hole Ø2 9/16

*Also available with handle 2" longer

Handle position



1) Optional Handle Latch

Handle position	1	Center	2
Out Port Supplied	X		
tablefooter			

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

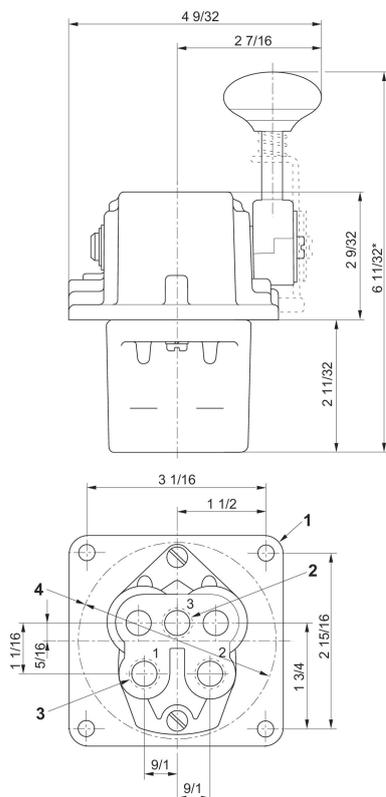
3/2-directional valve, Series A-Pilotair®

Flow: 1308.72 l/min
 Activation: Manual
 Min. control pressure: 0 bar
 Max. control pressure: 17.3 bar
 Ambient temperature min./max.: -40 °C ... 71 °C
 Medium temperature min./max.: -40 °C ... 71 °C
 Working pressure min./max.: 0 bar ... 13.7 bar



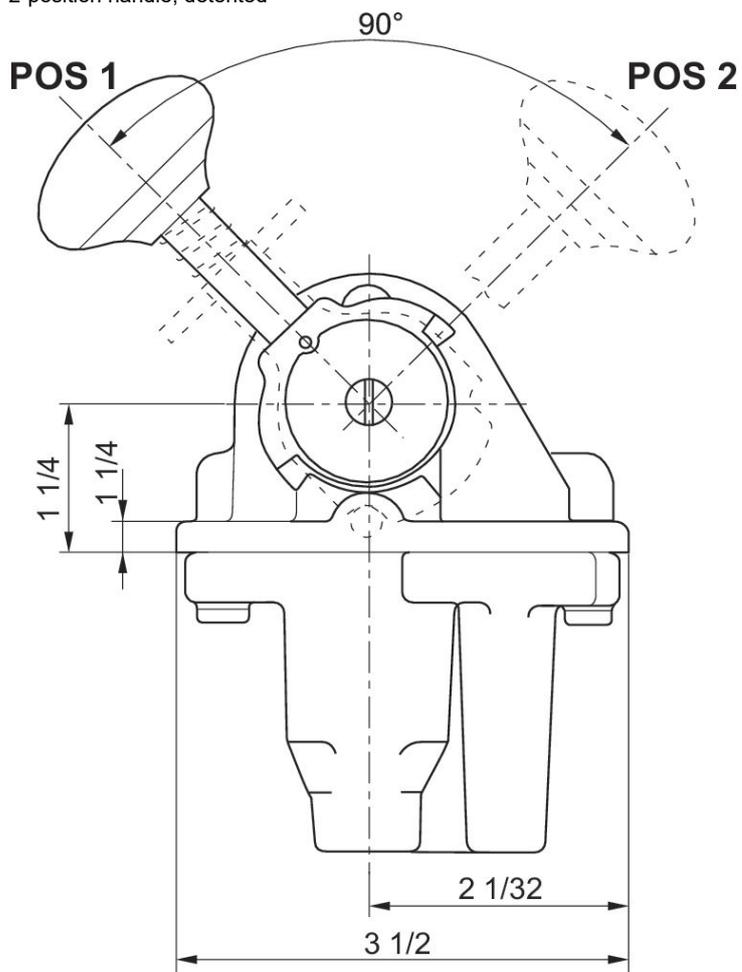
Valve function	Surface housing	Surface front cover	Type	Compressed air connection output	Part No.
Exhausted Center			2-HA-2Y	Ø 1/4"	R431005016
			2-HA-2Y	Ø 1/4"	R431005017
	chromated	chromated	2-HA-2Y	Ø 1/4"	R431005018
Exhausted Center			2-HA-2Y	Ø 1/4"	R431005861
	chromated	chromated	2-HA-2Y	Ø 1/4"	R431006195
	black painted		2-HA-2Y	Ø 1/4"	R431006604
Pressurized Center			2-HA-2LY	Ø 1/4"	R431005019
Exhausted Center			2-HA-2LY	Ø 1/4"	R431006194

Dimensions in inches



- 1) $\frac{9}{32}$ diameter (4) places
 - 2) Air supply
 - 3) panel mounting hole $\varnothing 3 \frac{3}{8}$
 - 4) $\frac{1}{4}$ - 18 NPTF
- *Also available with handle 2" longer

2-position handle, detented



Handle position		1	2
Out Port Supplied	OUT port 1		X
Out Port Supplied	OUT port 2	X	
tablefooter			

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

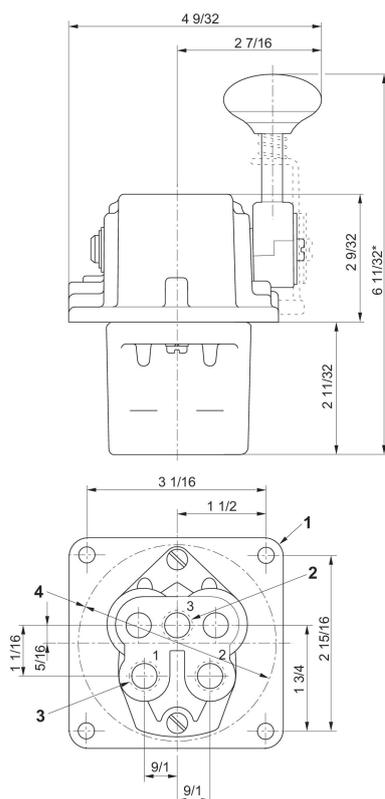
3/2-directional valve, Series A-Pilotair®

Flow: 1308.72 l/min
 Activation: Manual
 Min. control pressure: 0 bar
 Max. control pressure: 17.3 bar
 Ambient temperature min./max.: -40 °C ... 71 °C
 Medium temperature min./max.: -40 °C ... 71 °C
 Working pressure min./max.: 0 bar ... 13.7 bar



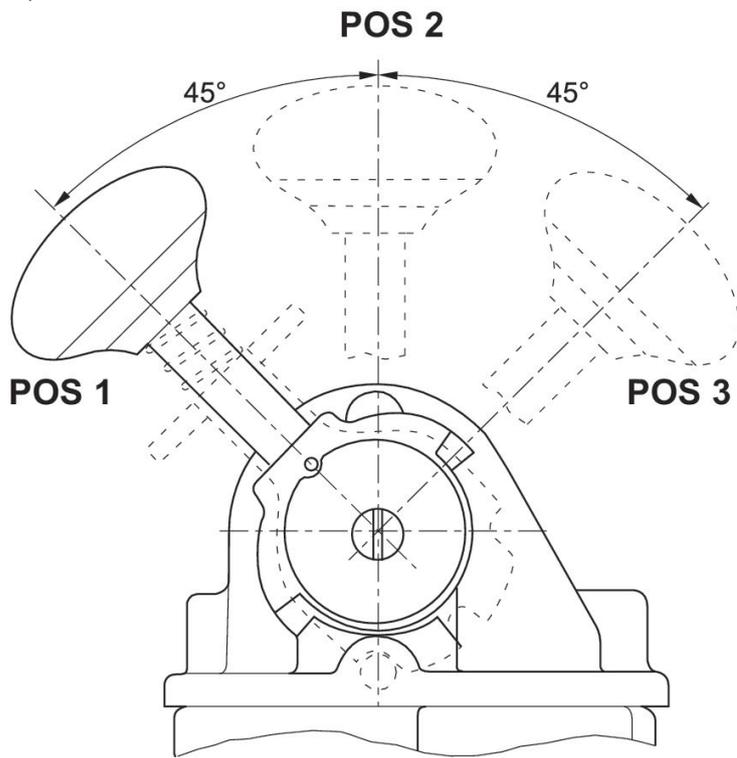
Compressed air connection output	Part No.
Ø 1/4"	R431005020
Ø 1/4"	R431005021

Dimensions in inches



- 1) 9/32 diameter (4) places
 - 2) Air supply
 - 3) panel mounting hole Ø3 3/8
 - 4) 1/4 - 18 NPTF
- *Also available with handle 2" longer

3-position handle, detented



Handle position

Handle position		1	2	3
Out Port Supplied	OUT port 1			X
Out Port Supplied	OUT port 2		X	X
tablefooter				

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

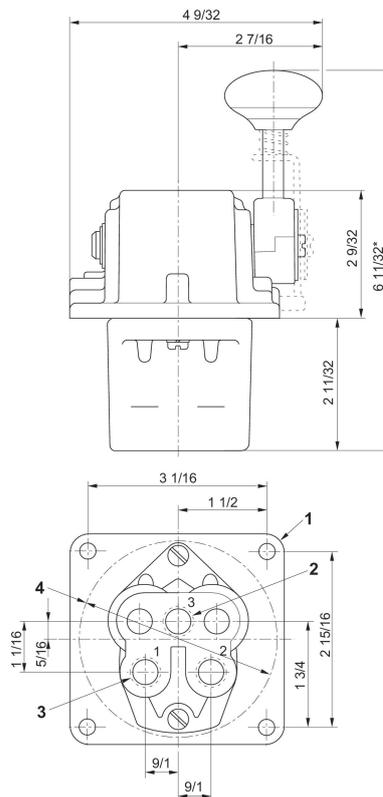
3/2-directional valve, Series A-Pilotair®

Flow: 1308.72 l/min
 Activation: Manual
 Min. control pressure: 0 bar
 Max. control pressure: 17.3 bar
 Ambient temperature min./max.: -40 °C ... 71 °C
 Medium temperature min./max.: -40 °C ... 71 °C
 Working pressure min./max.: 0 bar ... 13.7 bar



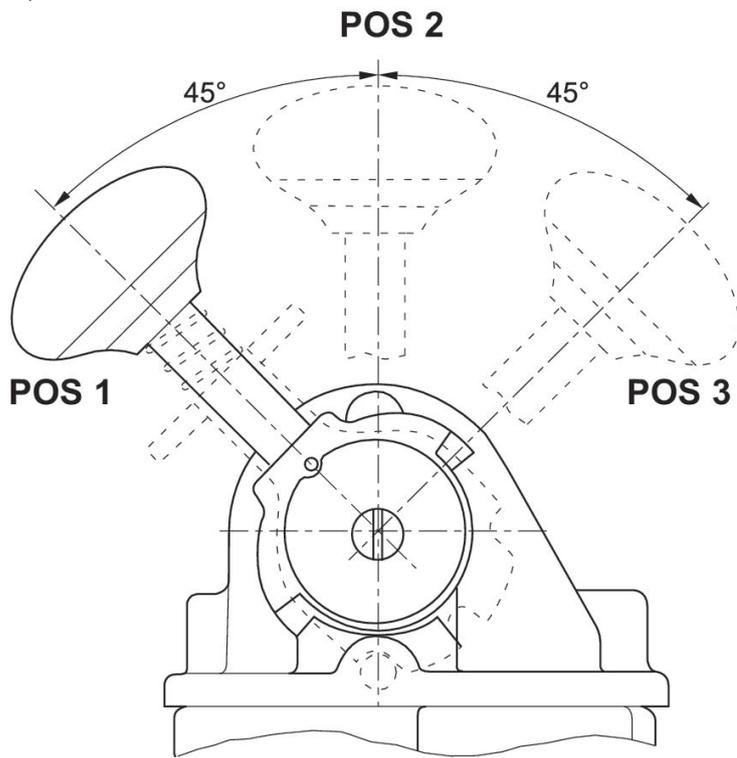
Compressed air connection output	Part No.
Ø 1/4"	R431006413

Dimensions in inches



- 1) 9/32 diameter (4) places
 - 2) Air supply
 - 3) panel mounting hole Ø3 3/8
 - 4) 1/4 - 18 NPTF
- *Also available with handle 2" longer

3-position handle, detented



Handle position

Handle position		1	2	3
Out Port Supplied	OUT port 1		X	
Out Port Supplied	OUT port 2	X	X	
tabelfooter				

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

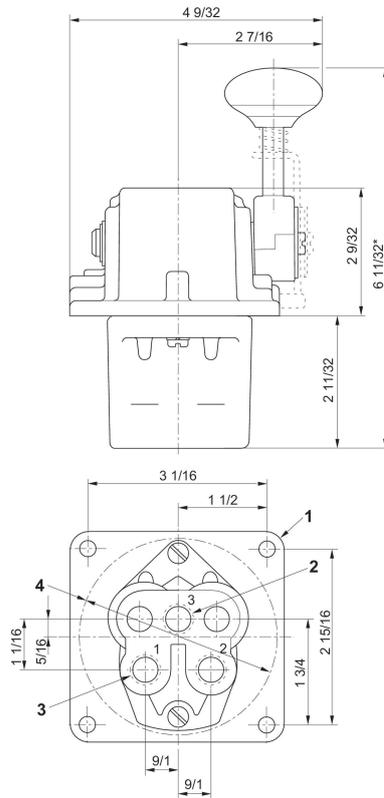
3/2-directional valve, Series A-Pilotair®

Flow: 1308.72 l/min
 Activation: Manual
 Min. control pressure: 0 bar
 Max. control pressure: 17.3 bar
 Ambient temperature min./max.: -40 °C ... 71 °C
 Medium temperature min./max.: -40 °C ... 71 °C
 Working pressure min./max.: 0 bar ... 13.7 bar



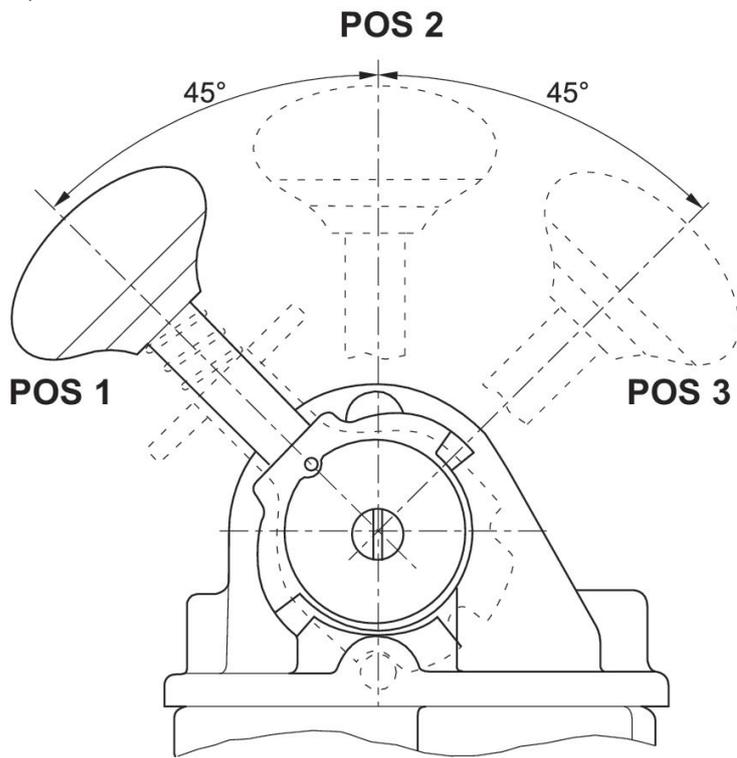
Housing material	Surface housing	Surface front cover	Type	Compressed air connection output	Part No.
Die-cast aluminum	chromated	chromated	2-HA-2	Ø 1/4"	R431005003
Die-cast aluminum	black painted		2-HA-2	Ø 1/4"	R431005005
Die-cast aluminum			2-HA-2	Ø 1/4"	R431005004
Die-cast aluminum			2-HA-2	Ø 1/4"	R431005820
Die-cast aluminum			2-HA-2L	Ø 1/4"	R431005006
Die-cast aluminum	black painted		2-HA-2L	Ø 1/4"	R431005007
Die-cast aluminum			2-HA-2L	Ø 1/4"	R431006008
Die-cast aluminum	black painted		2-HA-2L	Ø 1/4"	R431006010
Die-cast aluminum	black painted		2-HA-2L	Ø 1/4"	R431006009
Die-cast aluminum			2-HA-2L	Ø 1/4"	R431005927
Die-cast aluminum			2-HA-2Z	Ø 1/4"	R431005013
Die-cast aluminum	chromated		2-HA-2Z	Ø 1/4"	R431005015
Die-cast aluminum	black painted		2-HA-2Z	Ø 1/4"	R431005014

Dimensions in inches



- 1) $\frac{9}{32}$ diameter (4) places
 - 2) Air supply
 - 3) panel mounting hole $\text{Ø}3 \frac{3}{8}$
 - 4) $\frac{1}{4}$ - 18 NPTF
- *Also available with handle 2" longer

3-position handle, detented



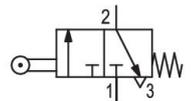
Handle position

Handle position		1	2	3
Out Port Supplied	OUT port 1			X
Out Port Supplied	OUT port 2	X		
tablefooter				

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

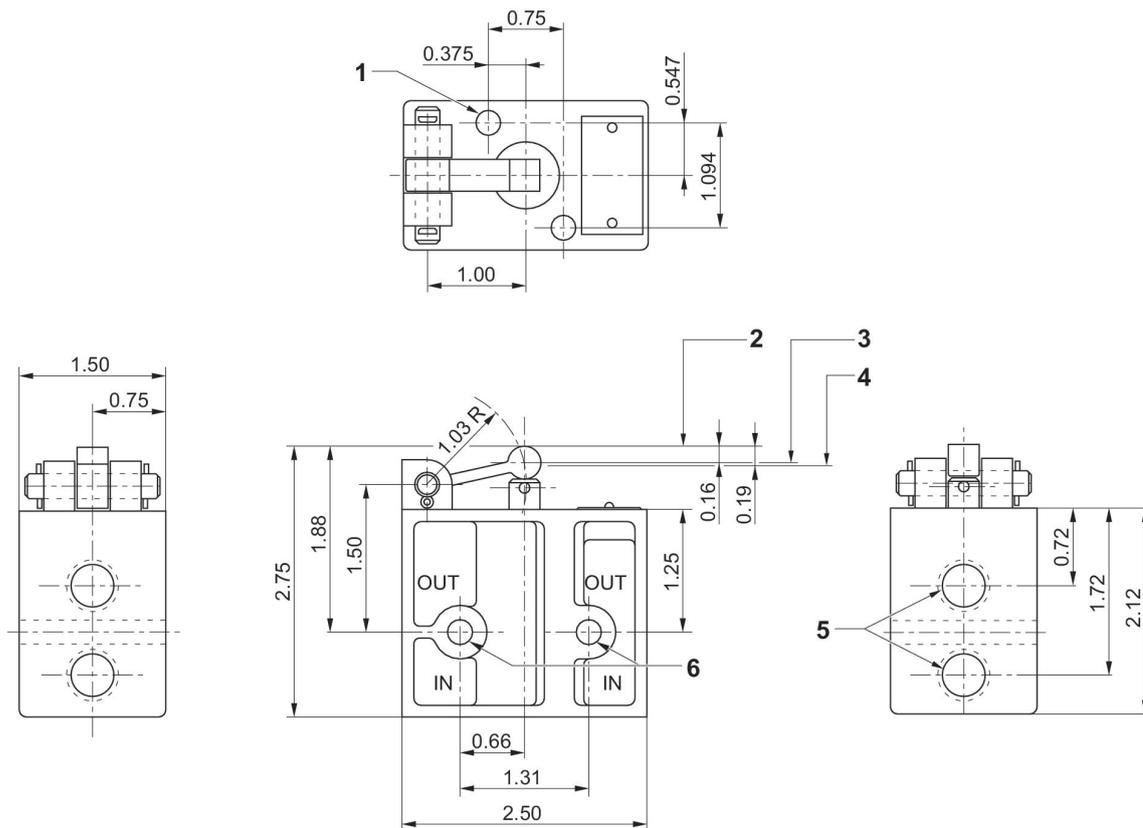
Series A-Pilotair®

Flow: 1300 l/min
 Activation: Mechanical
 Min. control pressure: 0 bar
 Max. control pressure: 17.3 bar
 Ambient temperature min./max.: -40 °C ... 93 °C
 Medium temperature min./max.: -40 °C ... 93 °C
 Working pressure min./max.: 0 bar ... 13.7 bar



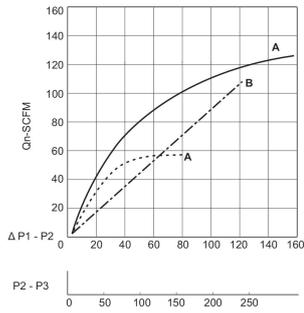
Valve function	Housing material	Compressed air connection output	Part No.
NC	Die-cast aluminum	1/4 - 18 NPTF	R431004665

Dimensions in inches



- 1) Mounting hole Ø26
- 2) Air off position
- 3) Air on position
- 4) Full on position
- 5) 1/4 - 18 NPTF
- 6) Mounting hole Ø26

Flow diagram



- A) $p_1 = 200$
- A) $p_1 = 80$
- B) ($p_1 - P_2$) Port 1 (input) # Port 2 (Output)
- ($p_2 - p_3$) Port 2 (Output) # Port 3 (Exhaust)

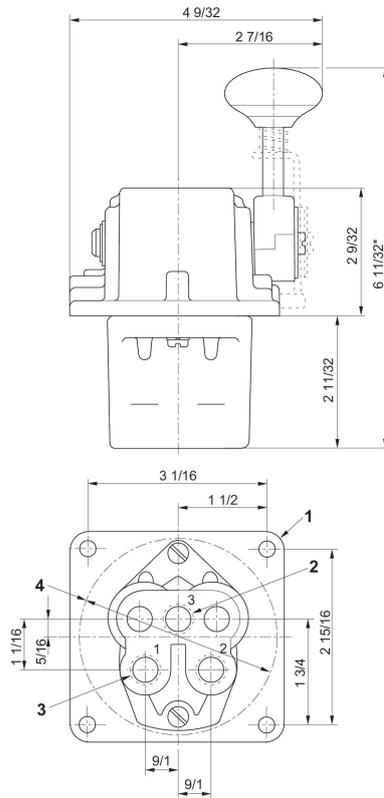
3/2-directional valve, Series A-Pilotair®

Flow: 1308.72 l/min
 Activation: Manual
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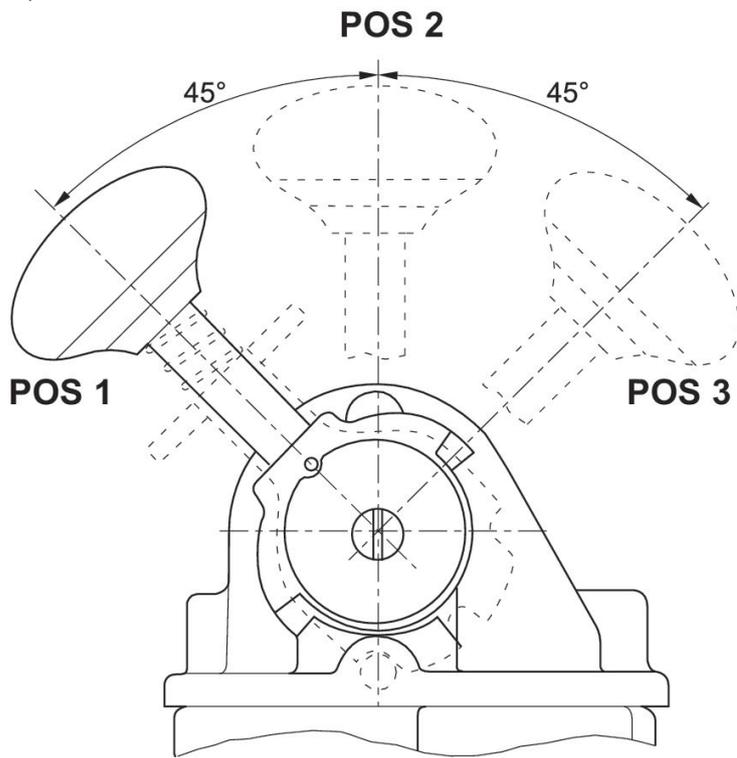
Valve function	Housing material	Surface housing	Type	Compressed air connection output	Part No.
Pressurized Center	Die-cast aluminum		2-HA-2R	Ø 1/4"	R431005008
Pressurized Center	Die-cast aluminum	chromated	2-HA-2R	Ø 1/4"	R431005009
Pressurized Center	Die-cast aluminum	black painted	2-HA-2R	Ø 1/4"	R431005010
Pressurized Center	Die-cast aluminum		2-HA-2R	Ø 1/4"	R431005754
Pressurized Center	Die-cast aluminum		2-HA-2LR	Ø 1/4"	R431005011
Pressurized Center	Die-cast aluminum		2-HA-2LR	Ø 1/4"	R431005012

Dimensions in inches



- 1) $\frac{9}{32}$ diameter (4) places
 - 2) Air supply
 - 3) panel mounting hole $\varnothing 3 \frac{3}{8}$
 - 4) $\frac{1}{4}$ - 18 NPTF
- *Also available with handle 2" longer

3-position handle, detented



Handle position

Handle position		1	2	3
Out Port Supplied	OUT port 1		X	X
Out Port Supplied	OUT port 2	X	X	
tablefooter				

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

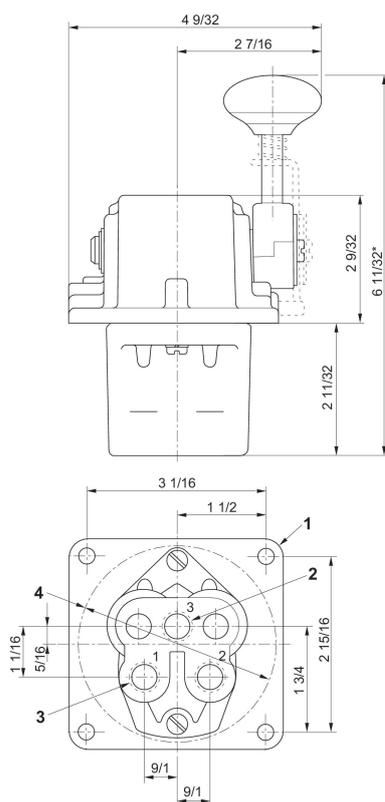
3/2-directional valve, Series A-Pilotair®

Flow: 1308.72 l/min
 Activation: Manual
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 Max. control pressure: 17.3 bar
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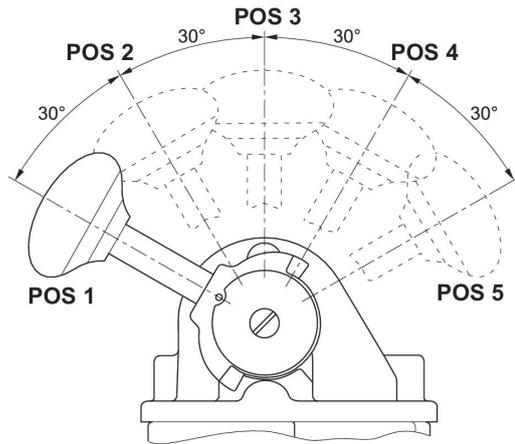
Housing material	Surface housing	Type	Compressed air connection output	Part No.
Die-cast aluminum	black painted	2-HA-2F	Ø 1/4"	R431003360

Dimensions in inches



- 1) 9/32 diameter (4) places
 - 2) Air supply
 - 3) panel mounting hole Ø3 3/8
 - 4) 1/4 - 18 NPTF
- *Also available with handle 2" longer

Double 3-way valves - 5 position handle
5-position handle, detented



Handle position

Handle position		1	2	3	4	5
Out Port Supplied	OUT port 1	X	X			X
Out Port Supplied	OUT port 2	X			X	X
tablefooter						

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

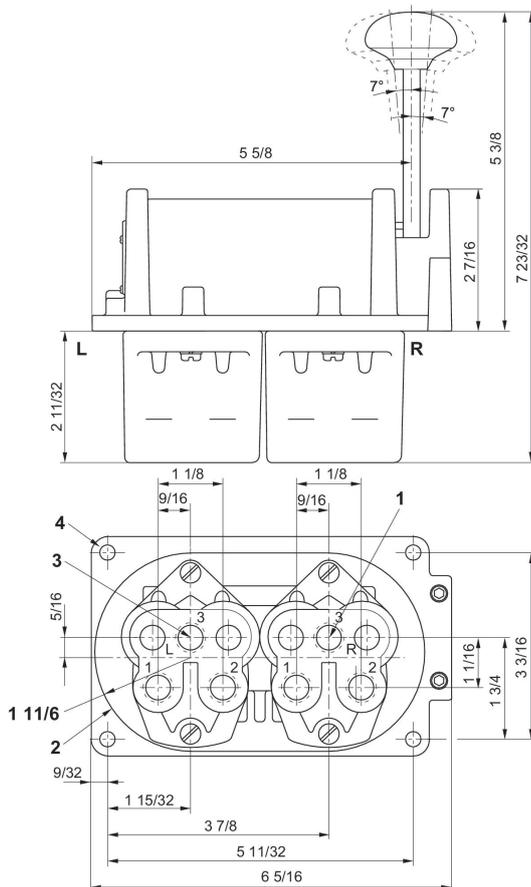
3/2-directional valve, Series A-Pilotair®

Flow: 1308.72 l/min
 Activation: Manual
 Min. control pressure: 0 bar
 Max. control pressure: 17.2 bar
 Ambient temperature min./max.: -40 °C ... 71 °C
 Medium temperature min./max.: -40 °C ... 71 °C
 Working pressure min./max.: 0 bar ... 13.7 bar

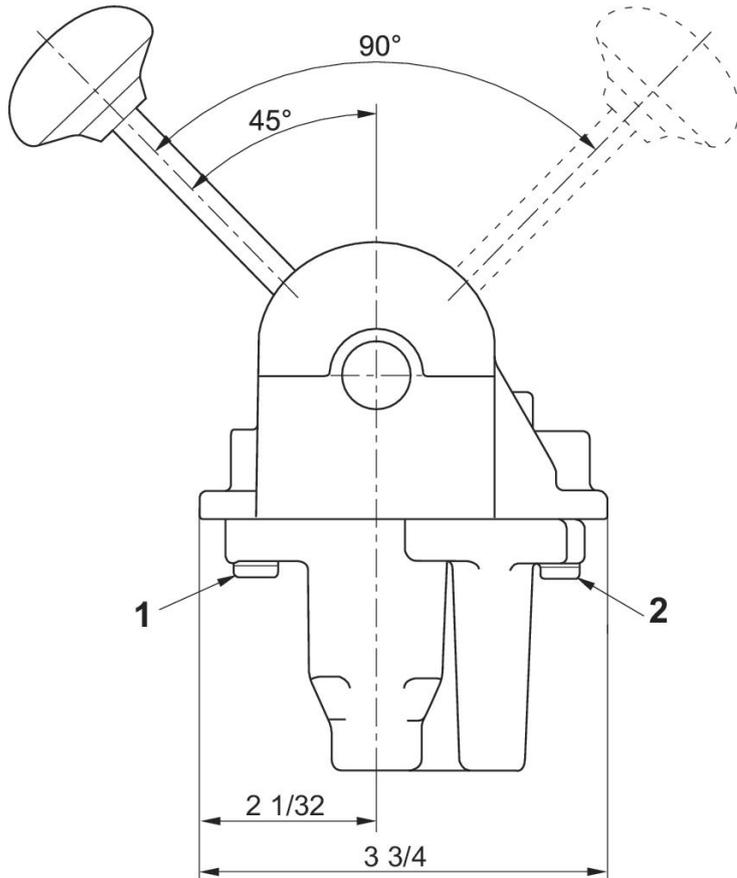


Housing material	Type	Compressed air connection output	Part No.
Die-cast aluminum	2-HA-4	Ø 1/4"	R431004543

Dimensions in inches



- 1) Air supply
- 2) Mounting hole
- 3) 1/4 - 18 NPTF 6 ports
- 4) 9/32 diameter (4) places



1) Front
2) Rear

Handle position

Handle position		1	2
Out Port Supplied	OUT port 1L	X	
Out Port Supplied	OUT port 2L		X
Out Port Supplied	OUT port 1R	X	
Out Port Supplied	OUT port 2R		X
tablefooter			

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

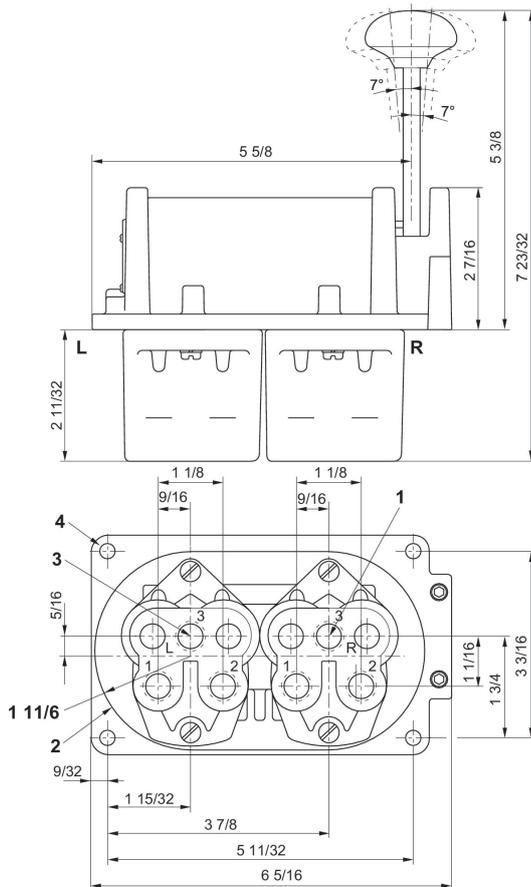
3/2-directional valve, Series A-Pilotair®

Flow: 1308.72 l/min
 Activation: Manual
 Min. control pressure: 0 bar
 Max. control pressure: 17.2 bar
 Ambient temperature min./max.: -40 °C ... 71 °C
 Medium temperature min./max.: -40 °C ... 71 °C
 Working pressure min./max.: 0 bar ... 13.7 bar



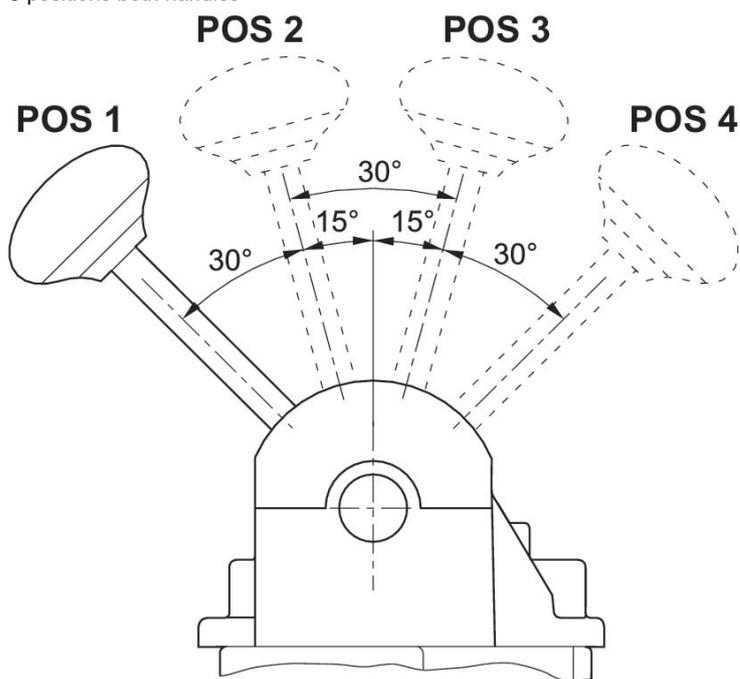
Housing material	Type	Compressed air connection output	Part No.
Die-cast aluminum	2-H-3	Ø 1/4"	R431004510
Die-cast aluminum	2-HA-3	Ø 1/4"	R431004511
Die-cast aluminum	2-HA-4	Ø 1/4"	R431005485

Dimensions in inches



- 1) Air supply
- 2) Mounting hole
- 3) 1/4 - 18 NPTF 6 ports
- 4) 9/32 diameter (4) places

3 positions both handles



2-HA-4

Handle position		1	2	3	4
Out Port Supplied	OUT port 1L			X	
Out Port Supplied	OUT port 2L	X			
Out Port Supplied	OUT port 1R				X
Out Port Supplied	OUT port 2R		X		
tablefooter					

2-HA-3

Handle position		1	2	3	4*
Out Port Supplied	OUT port 1L	Plugged	Plugged	Plugged	Plugged
Out Port Supplied	OUT port 2L	X			
Out Port Supplied	OUT port 1R				X
Out Port Supplied	OUT port 2R		X		
tablefooter					

*Spring-returned to position 3

2-H-3

Handle position		1	2	3	4
Out Port Supplied	OUT port 1L	Plugged	Plugged	Plugged	Plugged
Out Port Supplied	OUT port 2L			X	X
Out Port Supplied	OUT port 1R	X	X		
Out Port Supplied	OUT port 2R		X	X	
tablefooter					

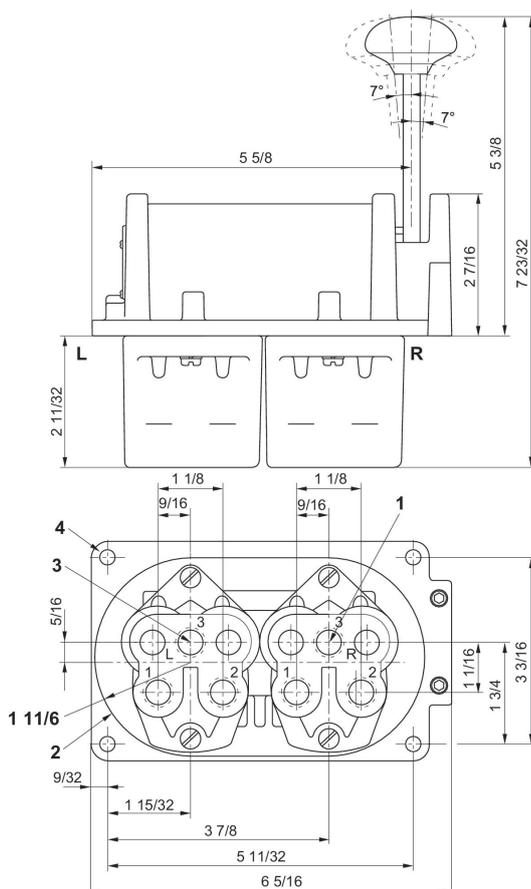
3/2-directional valve, Series A-Pilotair®

Flow: 1308.72 l/min
 Activation: Manual
 Min. control pressure: 0 bar
 Max. control pressure: 17.2 bar
 Ambient temperature min./max.: -40 °C ... 71 °C
 Medium temperature min./max.: -40 °C ... 71 °C
 Working pressure min./max.: 0 bar ... 13.7 bar



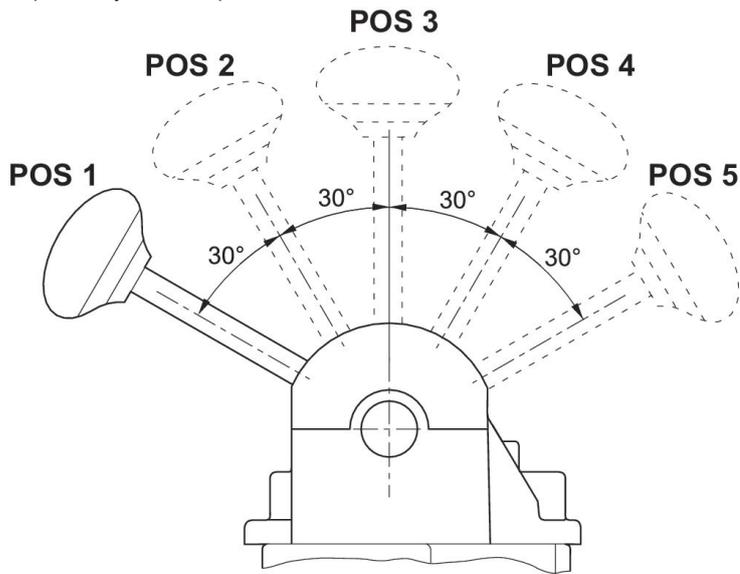
Housing material	Type	Compressed air connection output	Part No.
Die-cast aluminum	2-HA-3	Ø 1/4"	R431004512
Die-cast aluminum	2-HA-3	Ø 1/4"	R431006034

Dimensions in inches



- 1) Air supply
- 2) Mounting hole
- 3) 1/4 - 18 NPTF 6 ports
- 4) 9/32 diameter (4) places

Triple 3-way valve - 3 position handle, detented



Handle position

Handle position		1	2	3	4	5
Out Port Supplied	OUT port 1L	Plugged	Plugged	Plugged	Plugged	Plugged
Out Port Supplied	OUT port 2L					X
Out Port Supplied	OUT port 1R			X		
Out Port Supplied	OUT port 2R	X				
tabelfooter						

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

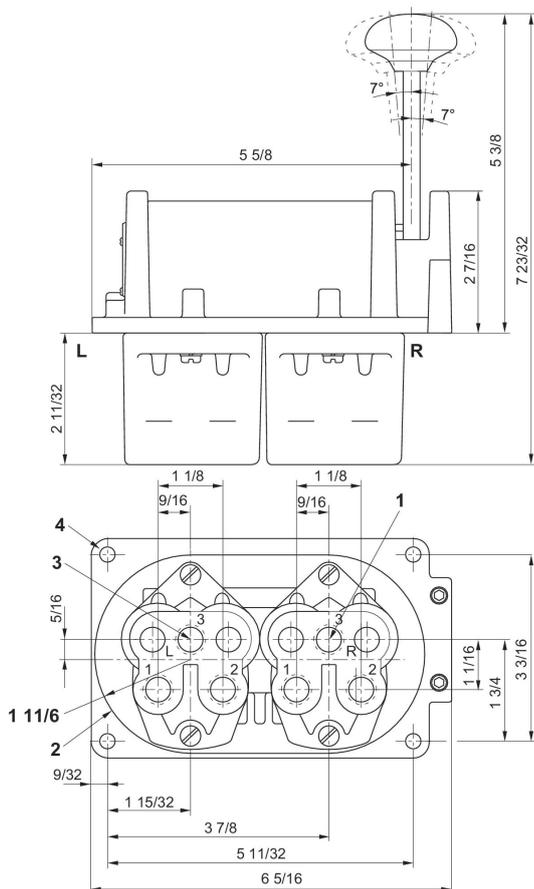
3/2-directional valve, Series A-Pilotair®

Flow: 1308.72 l/min
 Activation: Manual
 Min. control pressure: 0 bar
 Max. control pressure: 17.2 bar
 Ambient temperature min./max.: -40 °C ... 71 °C
 Medium temperature min./max.: -40 °C ... 71 °C
 Working pressure min./max.: 0 bar ... 13.7 bar



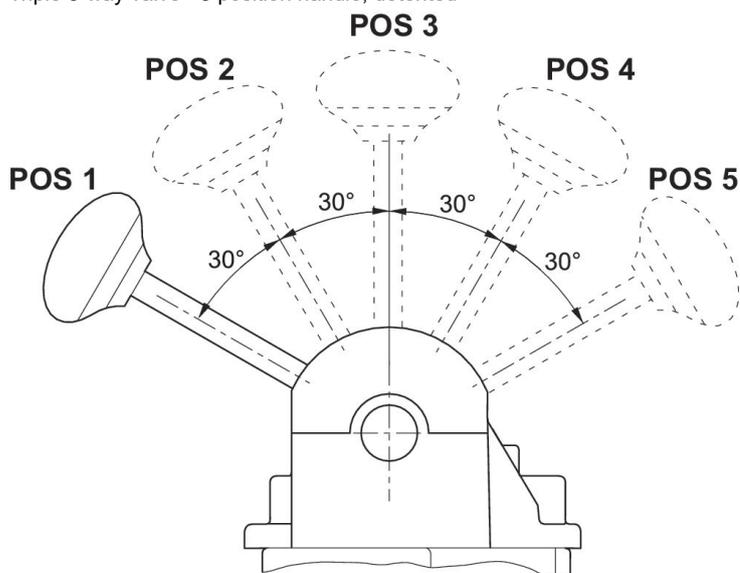
Housing material	Type	Compressed air connection output	Part No.
Die-cast aluminum	2-HA-3	Ø 1/4"	R431009019

Dimensions in inches



- 1) Air supply
- 2) Mounting hole
- 3) 1/4 - 18 NPTF 6 ports
- 4) 9/32 diameter (4) places

Triple 3-way valve - 3 position handle, detented



Handle position

Handle position		1	2	3	4	5
Out Port Supplied	OUT port 1L	Plugged	Plugged	Plugged	Plugged	Plugged
Out Port Supplied	OUT port 2L			X		
Out Port Supplied	OUT port 1R	X				
Out Port Supplied	OUT port 2R					X
tablefooter						

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

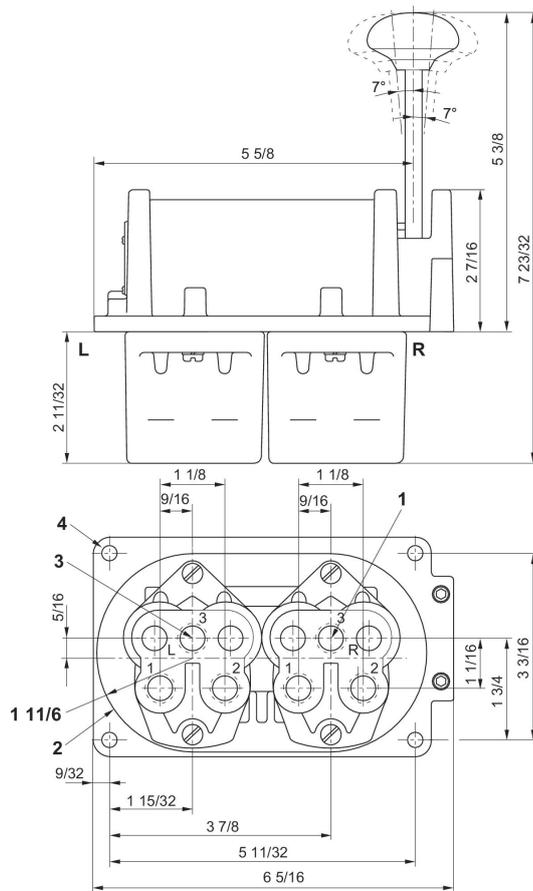
3/2-directional valve, Series A-Pilotair®

Flow: 1308.72 l/min
 Activation: Manual
 Min. control pressure: 0 bar
 Max. control pressure: 17.2 bar
 Ambient temperature min./max.: -40 °C ... 71 °C
 Medium temperature min./max.: -40 °C ... 71 °C
 Working pressure min./max.: 0 bar ... 13.7 bar



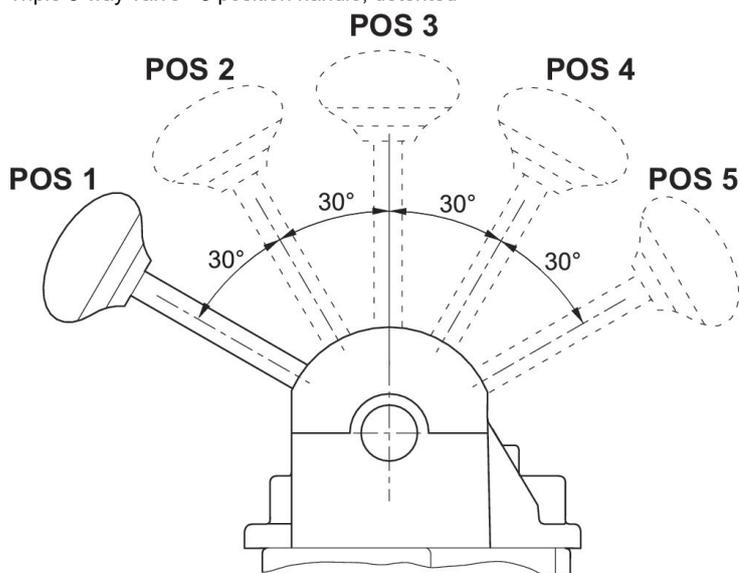
Housing material	Type	Compressed air connection output	Part No.
Die-cast aluminum	2-HA-4	Ø 1/4"	R431009113
Die-cast aluminum	2-HA-4	Ø 1/4"	R431004542
Die-cast aluminum	2-HA-4	Ø 1/4"	R431004801
Die-cast aluminum	2-HA-4	Ø 1/4"	R431005403
Die-cast aluminum	2-HA-4	Ø 1/4"	R431005803
Die-cast aluminum	2-HA-4	Ø 1/4"	R431005386
Die-cast aluminum	2-HA-4	Ø 1/4"	R431005740
Die-cast aluminum	2-HA-4	Ø 1/4"	R431004540
Die-cast aluminum	2-HA-4	Ø 1/4"	R431006038
Die-cast aluminum	2-HA-4	Ø 1/4"	R431006000

Dimensions in inches



- 1) Air supply
- 2) Mounting hole
- 3) 1/4 - 18 NPTF 6 ports
- 4) 9/32 diameter (4) places

Triple 3-way valve - 3 position handle, detented



R431006000

Handle position		1	2	3	4
Out Port Supplied	OUT port 1L	X	X		
Out Port Supplied	OUT port 2L		X	X	
Out Port Supplied	OUT port 1R			X	X
Out Port Supplied	OUT port 2R				X
tablefooter					

R431004540

Handle position		1	2	3	4
Out Port Supplied	OUT port 1L				X
Out Port Supplied	OUT port 2L	X	X		
Out Port Supplied	OUT port 1R			X	
Out Port Supplied	OUT port 2R	X			
tablefooter					

R431006038

Handle position		1	2	3	4	5
Out Port Supplied	OUT port 1L	X				
Out Port Supplied	OUT port 2L		X			
Out Port Supplied	OUT port 1R				X	
Out Port Supplied	OUT port 2R					X
tablefooter						

R431005803

Handle position		1	2	3	4	5
Out Port Supplied	OUT port 1L	X	X	X	X	
Out Port Supplied	OUT port 2L	X	X	X		X
Out Port Supplied	OUT port 1R	X		X	X	X
Out Port Supplied	OUT port 2R	X	X		X	X
tablefooter						

R4310055403

Handle position		1	2	3	4	5
Out Port Supplied	OUT port 1L		X			
Out Port Supplied	OUT port 2L			X		
Out Port Supplied	OUT port 1R				X	
Out Port Supplied	OUT port 2R					X
tablefooter						

R431004801

Handle position		1	2	3	4	5
Out Port Supplied	OUT port 1L		X	X	X	
Out Port Supplied	OUT port 2L			X	X	X
Out Port Supplied	OUT port 1R				X	X
Out Port Supplied	OUT port 2R	X	X	X		
tablefooter						

R431005740

Handle position		1	2	3	4	5
Out Port Supplied	OUT port 1L	X	X	X	X	
Out Port Supplied	OUT port 2L				X	X
Out Port Supplied	OUT port 1R	X	X			
Out Port Supplied	OUT port 2R		X	X	X	X
tablefooter						

R431005386

Handle position		1	2	3	4	5
Out Port Supplied	OUT port 1L	X	X			
Out Port Supplied	OUT port 2L	X				
Out Port Supplied	OUT port 1R				X	X
Out Port Supplied	OUT port 2R					X
tablefooter						

R431004542

Handle position		1	2	3	4	5	
Out Port Supplied	OUT port 1L				X	X	
Out Port Supplied	OUT port 2L	X	X				
Out Port Supplied	OUT port 1R	X			X		
Out Port Supplied	OUT port 2R		X				X
tablefooter							

R431009113

Handle position		1	2	3	4	5
Out Port Supplied	OUT port 1L			X	X	X
Out Port Supplied	OUT port 2L	X				
Out Port Supplied	OUT port 1R				X	X
Out Port Supplied	OUT port 2R	X	X	X	X	
tablefooter						

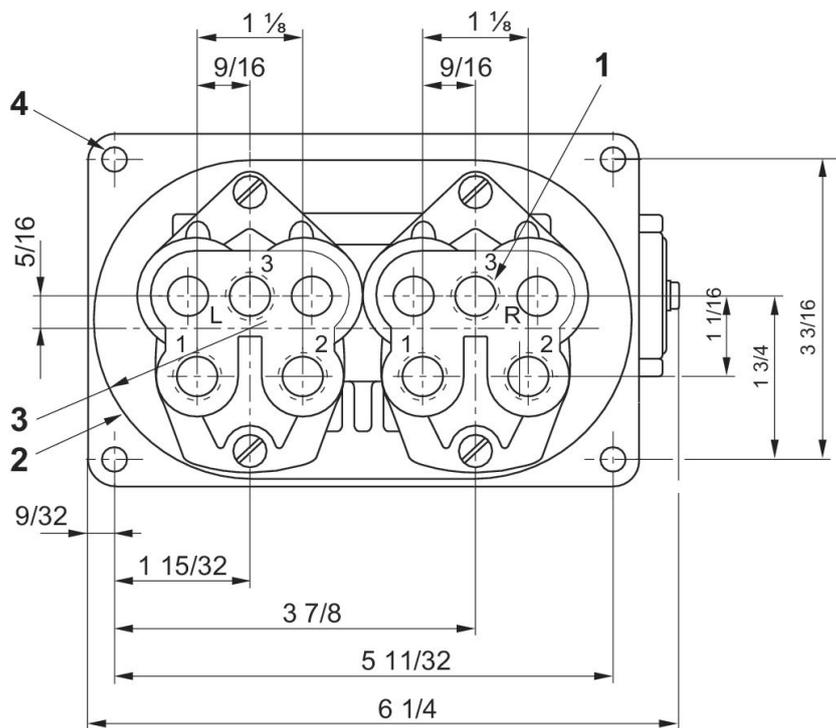
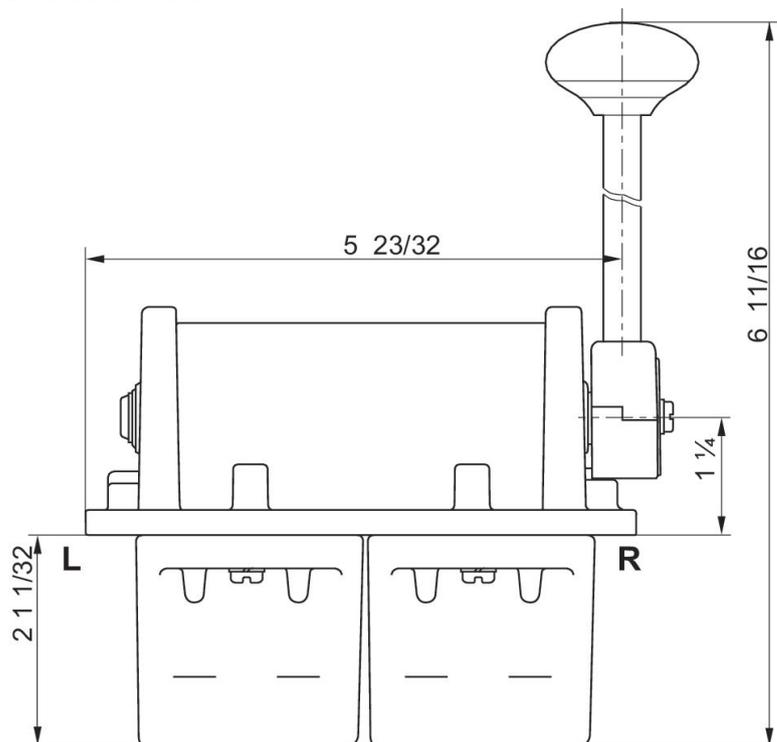
3/2-directional valve, Series A-Pilotair®

Flow: 1308.72 l/min
 Activation: Manual
 Min. control pressure: 0 bar
 Max. control pressure: 17.2 bar
 Ambient temperature min./max.: -40 °C ... 71 °C
 Medium temperature min./max.: -40 °C ... 71 °C
 Working pressure min./max.: 0 bar ... 13.7 bar



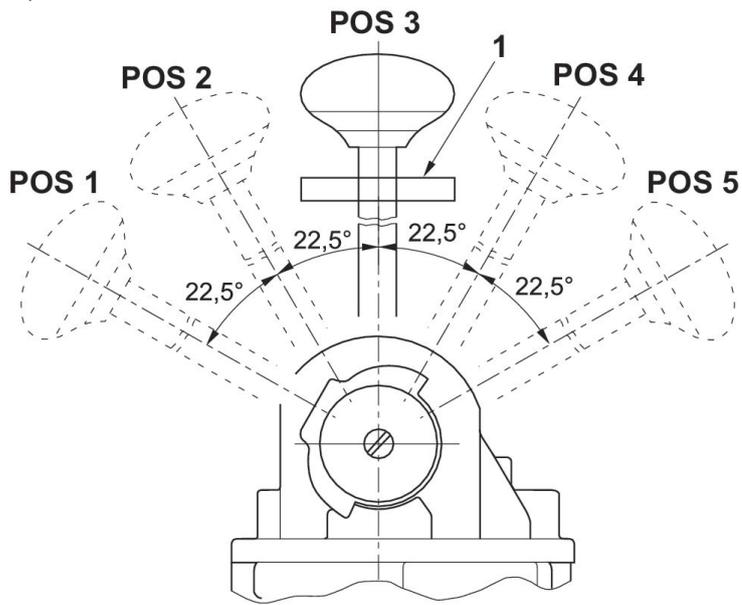
Housing material	Type	Compressed air connection output	Part No.
Die-cast aluminum	2-HA-4	Ø 1/4"	R431005632

Dimensions in inches



- 1) Air supply
- 2) Mounting hole
- 3) 1/4 - 18 NPTF 6 ports
- 4) 9/32 diameter (4) places

3-position handle, detented



Handle position

Handle position		1	2	3	4	5
Out Port Supplied	OUT port 1L				X	X
Out Port Supplied	OUT port 2L	X	X			
Out Port Supplied	OUT port 1R	X			X	
Out Port Supplied	OUT port 2R		X			X
tablefooter						

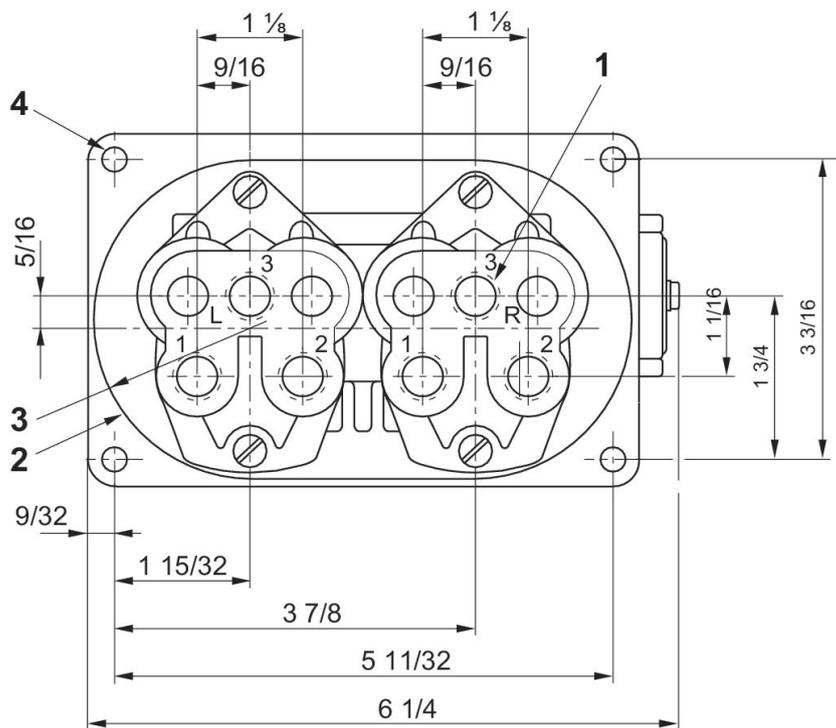
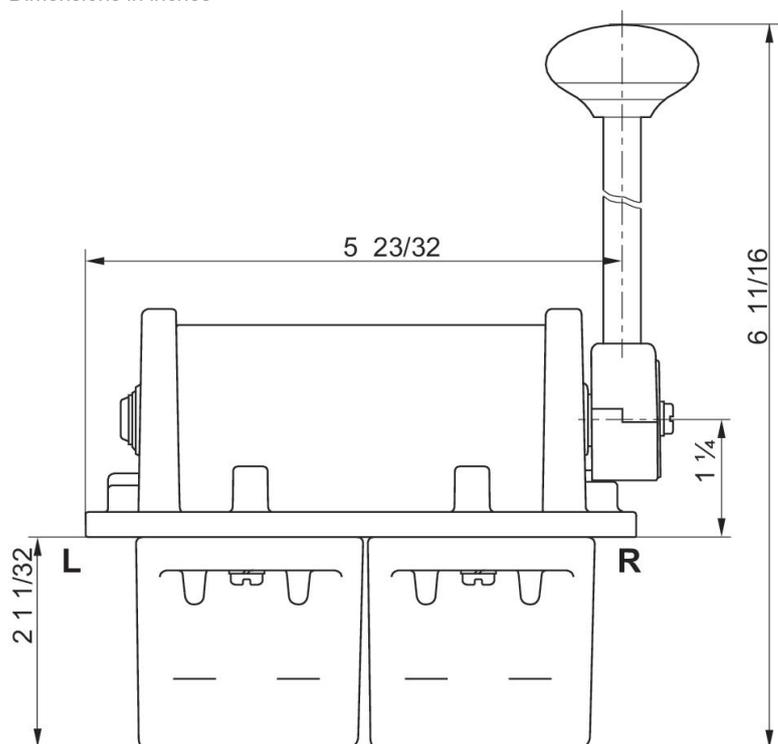
3/2-directional valve, Series A-Pilotair®

Flow: 1308.72 l/min
 Activation: Manual
 Min. control pressure: 0 bar
 Max. control pressure: 17.2 bar
 Ambient temperature min./max.: -40 °C ... 71 °C
 Medium temperature min./max.: -40 °C ... 71 °C
 Working pressure min./max.: 0 bar ... 13.7 bar



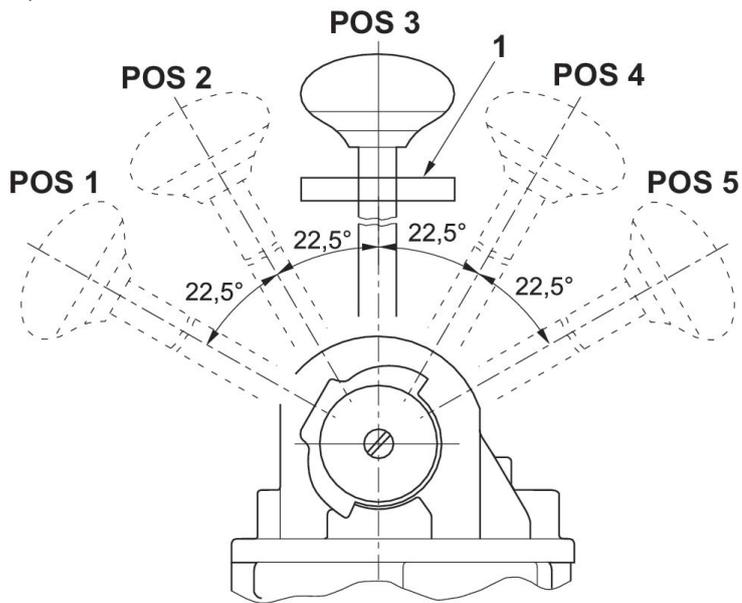
Housing material	Type	Compressed air connection output	Part No.
Die-cast aluminum	2-HA-3	Ø 1/4"	R431007396

Dimensions in inches



- 1) Air supply
- 2) Mounting hole
- 3) 1/4 - 18 NPTF 6 ports
- 4) 9/32 diameter (4) places

3-position handle, detented



Spring return to position 3 special handle latch at position 3 - 22 1/2° lever path between positions

Handle position		1	2	3	4	5
Out Port Supplied	OUT port 1L	Plugged	Plugged	Plugged	Plugged	Plugged
Out Port Supplied	OUT port 2L	X	X		X	X
Out Port Supplied	OUT port 1R	X				
Out Port Supplied	OUT port 2R					X
tablefooter						

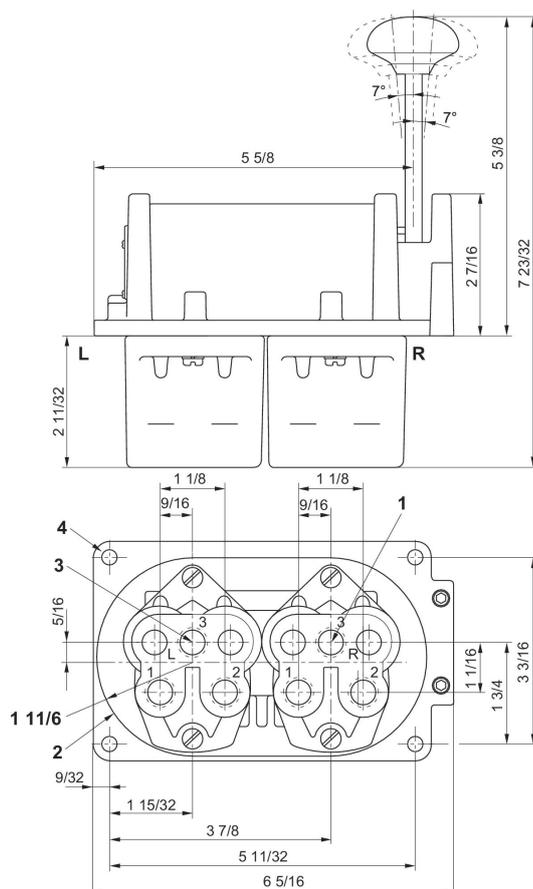
3/2-directional valve, Series A-Pilotair®

Flow: 1308.72 l/min
 Activation: Manual
 Min. control pressure: 0 bar
 Max. control pressure: 17.2 bar
 Ambient temperature min./max.: -40 °C ... 71 °C
 Medium temperature min./max.: -40 °C ... 71 °C
 Working pressure min./max.: 0 bar ... 13.7 bar



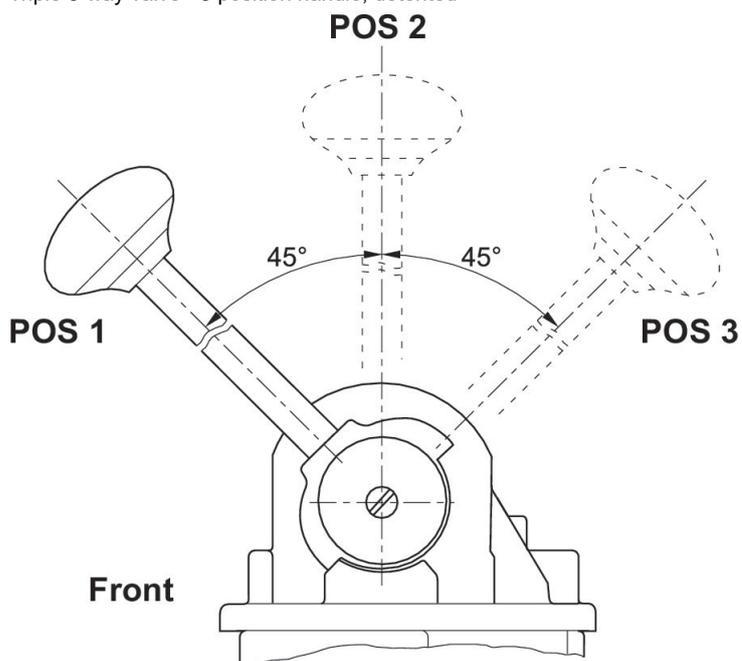
Housing material	Type	Compressed air connection output	Part No.
Die-cast aluminum	2-HA-3	Ø 1/4"	R431005733
Die-cast aluminum	2-HA-3	Ø 1/4"	R431005734

Dimensions in inches



- 1) Air supply
- 2) Mounting hole
- 3) 1/4 - 18 NPTF 6 ports
- 4) 9/32 diameter (4) places

Triple 3-way valve - 3 position handle, detented



R431005734

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

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

R431005733

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

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

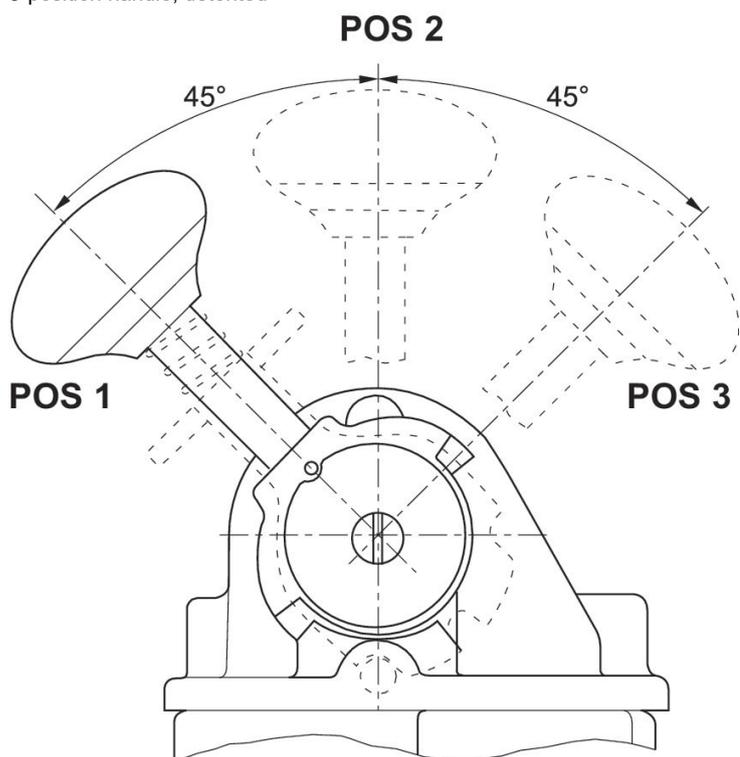
3/2-directional valve, Series A-Pilotair®

Flow: 1308.72 l/min
 Activation: Manual
 Min. control pressure: 0 bar
 Max. control pressure: 17.2 bar
 Ambient temperature min./max.: -40 °C ... 71 °C
 Medium temperature min./max.: -40 °C ... 71 °C
 Working pressure min./max.: 0 bar ... 13.7 bar



Housing material	Type	Compressed air connection output	Part No.
Die-cast aluminum	2-HA-3	Ø 1/4"	R431004513

3-position handle, detented



2 positions right handle, 3 positions left handle

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

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

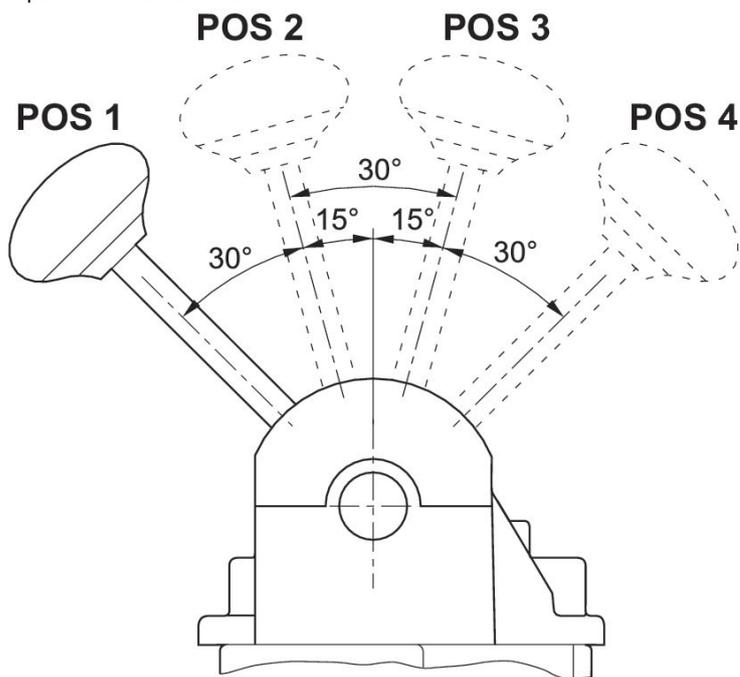
3/2-directional valve, Series A-Pilotair®

Flow: 1308.72 l/min
 Activation: Manual
 Min. control pressure: 0 bar
 Max. control pressure: 17.2 bar
 Ambient temperature min./max.: -40 °C ... 71 °C
 Medium temperature min./max.: -40 °C ... 71 °C
 Working pressure min./max.: 0 bar ... 13.7 bar



Housing material	Type	Compressed air connection output	Part No.
Die-cast aluminum	2-HA-4	Ø 1/4"	R431004541
Die-cast aluminum	2-HA-4	Ø 1/4"	R431004537

3 positions both handles



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

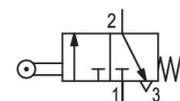
X denotes port supplied in that position. Empty block denotes port exhausted in that position.

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

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

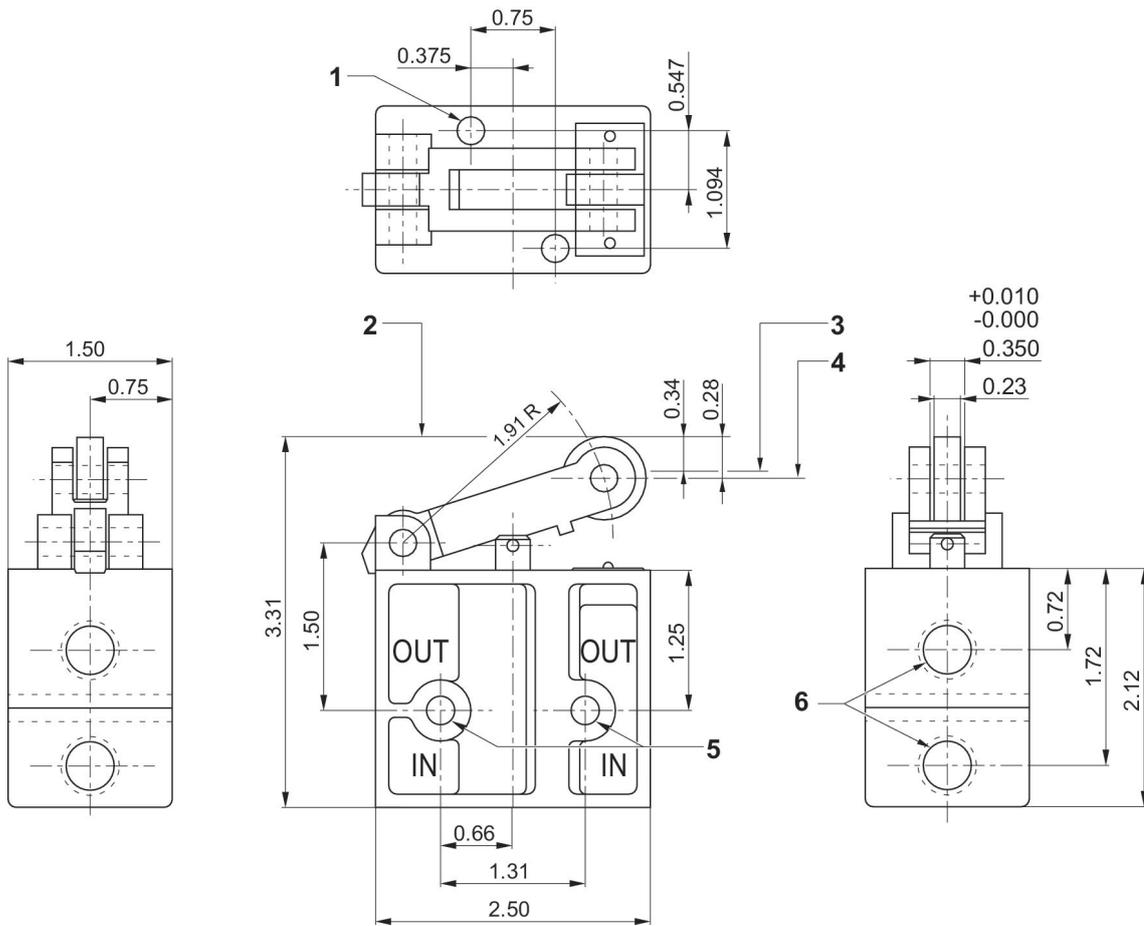
Series A-Pilotair®

Flow: 1300 l/min
 Activation: Mechanical
 Min. control pressure: 0 bar
 Max. control pressure: 13.7 bar
 Ambient temperature min./max.: -40 °C ... 93 °C
 Medium temperature min./max.: -40 °C ... 93 °C
 Working pressure min./max.: 0 bar ... 17.3 bar



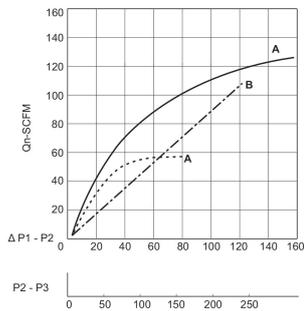
Actuating element	Valve function	Housing material	Compressed air connection output	Part No.
Roller	NC	Die-cast aluminum	1/4 - 18 NPTF	R431004666

Dimensions in inches



- 1) Mounting hole Ø26
- 2) Air off position
- 3) Air on position
- 4) Full on position
- 5) Mounting hole Ø26
- 6) 1/4 - 18 NPTF

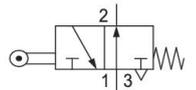
Flow diagram



- A) $p_1 = 200$
- A) $p_1 = 80$
- B) ($p_1 - P_{p2}$) Port 1 (input) # Port 2 (Output)
- ($p_2 - p_3$) Port 2 (Output) # Port 3 (Exhaust)

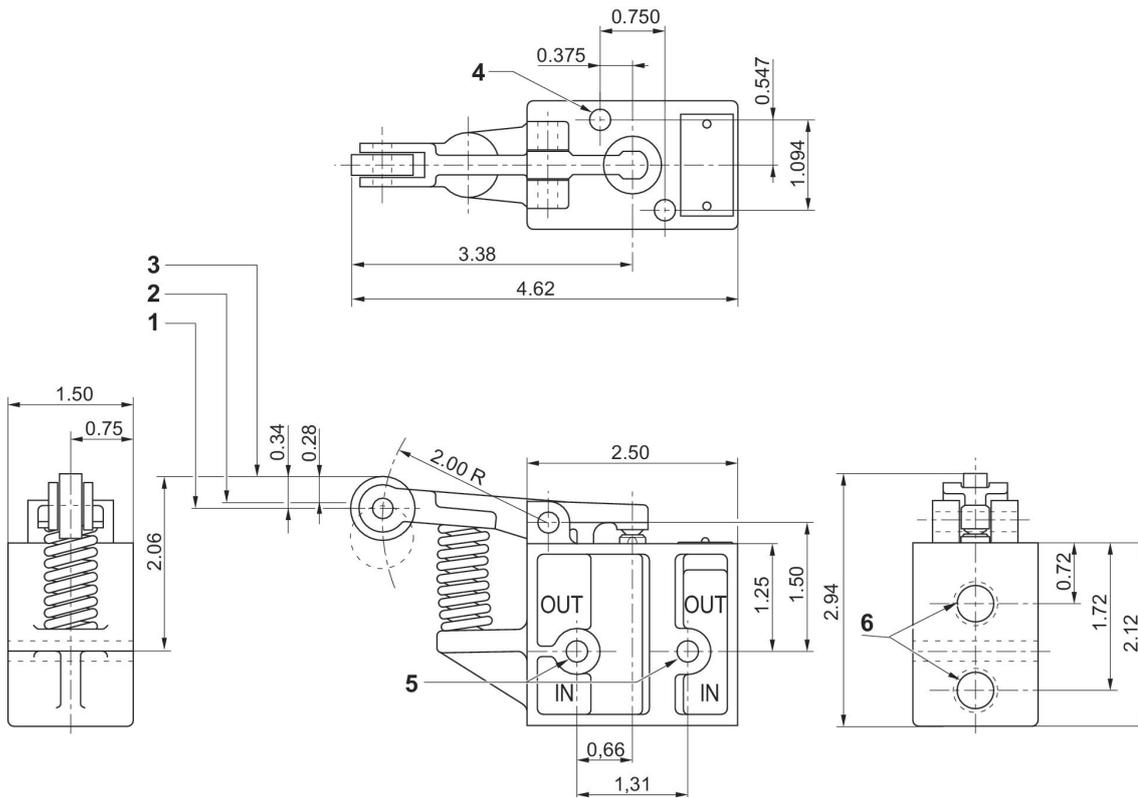
Series A-Pilotair®

Flow: 1300 l/min
 Activation: Mechanical
 Min. control pressure: 0 bar
 Max. control pressure: 17.3 bar
 Ambient temperature min./max.: -40 °C ... 93 °C
 Medium temperature min./max.: -40 °C ... 93 °C
 Working pressure min./max.: 0 bar ... 13.7 bar



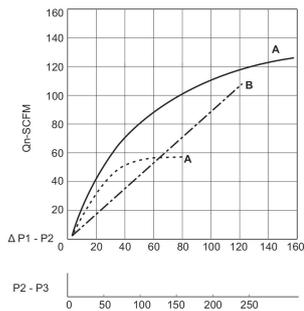
Actuating element	Valve function	Housing material	Compressed air connection output	Part No.
Roller lever, one-way trip	NO	Die-cast aluminum	1/4 - 18 NPT	R431004669
Roller lever, one-way trip	NO	Die-cast aluminum	1/4 - 18 NPT	R431004672
Roller lever, one-way trip	NO	Die-cast aluminum	1/4 - 18 NPT	R431004673

Dimensions in inches



- 1) Mounting hole Ø26
- 2) Full on position
- 3) Air off position
- 4) Air on position
- 5) Mounting hole Ø26
- 6) 1/4 - 18 NPTF

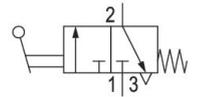
Flow diagram



- A) p1 =200
- A) p1 =80
- B) (p1 - Pp2) Port 1 (input) # Port 2 (Output)
- (p2 - p 3) Port 2 (Output) # Port 3 (Exhaust)

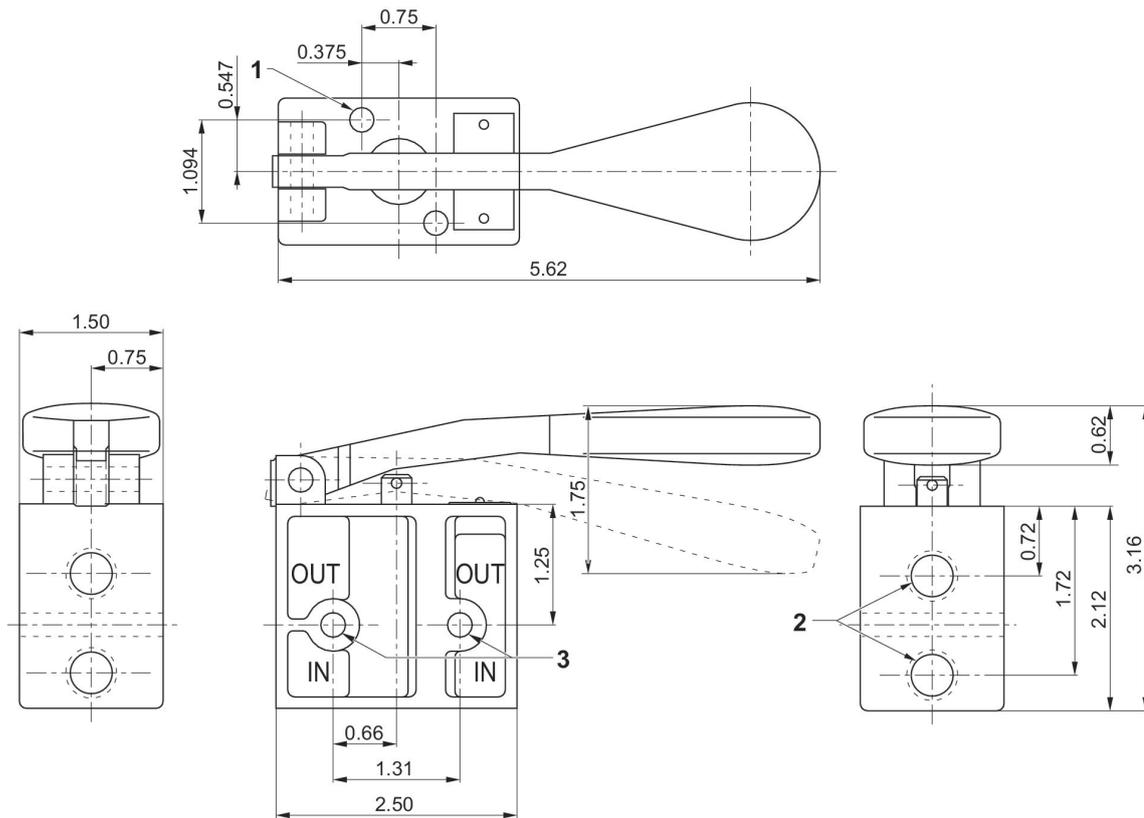
Series A-Pilotair®

Flow: 1300 l/min
 Activation: Mechanical
 Min. control pressure: 0 bar
 Max. control pressure: 13.7 bar
 Ambient temperature min./max.: -40 °C ... 93 °C
 Medium temperature min./max.: -40 °C ... 93 °C
 Working pressure min./max.: 0 bar ... 17.3 bar



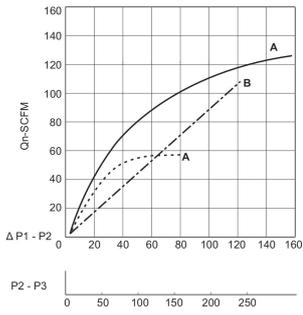
Valve function	Housing material	Compressed air connection output	Part No.
NC	Die-cast aluminum	1/2-14 NPTF	R431004675

Dimensions in inches



- 1) Mounting hole Ø26
- 2) 1/4 - 18 NPTF
- 3) Mounting hole Ø26

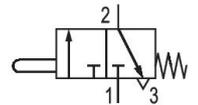
Flow diagram



- A) $p_1 = 200$
- A) $p_1 = 80$
- B) ($p_1 - P_{p2}$) Port 1 (input) # Port 2 (Output)
- ($p_2 - p_3$) Port 2 (Output) # Port 3 (Exhaust)

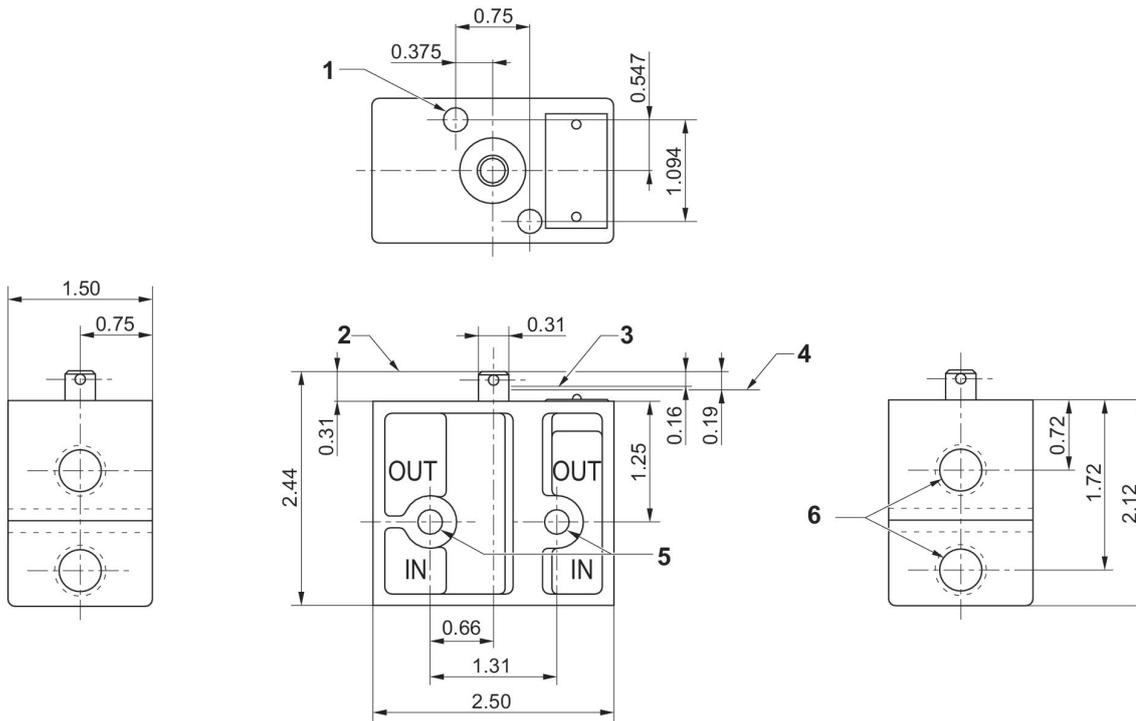
Series A-Pilotair®

Flow: 1300 l/min
 Activation: Mechanical
 Min. control pressure: 0 bar
 Max. control pressure: 13.7 bar
 Ambient temperature min./max.: -40 °C ... 93 °C
 Medium temperature min./max.: -40 °C ... 93 °C
 Working pressure min./max.: 0 bar ... 17.3 bar



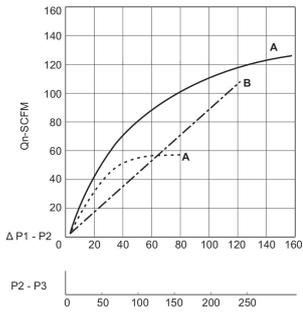
Valve function	Housing material	Compressed air connection output	Part No.
NC	Die-cast aluminum	1/4 - 18 NPTF	R431004659

Dimensions in inches



- 1) Mounting hole Ø26
- 2) Air off position
- 3) Air on position
- 4) Full on position
- 5) Mounting hole Ø26
- 6) 1/4 - 18 NPTF

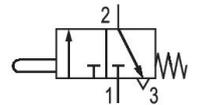
Flow diagram



- A) $p_1 = 200$
- A) $p_1 = 80$
- B) ($p_1 - P_{p2}$) Port 1 (input) # Port 2 (Output)
- ($p_2 - p_3$) Port 2 (Output) # Port 3 (Exhaust)

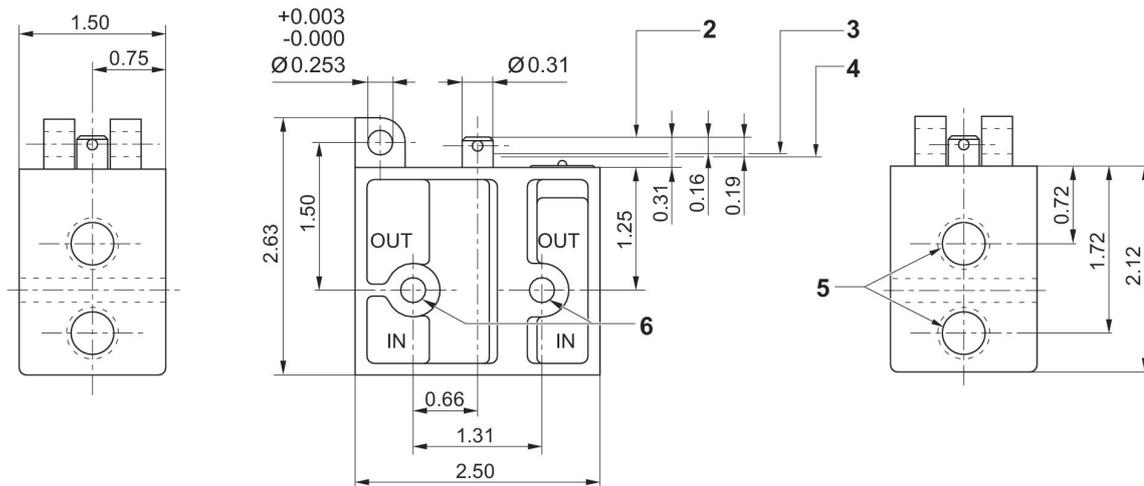
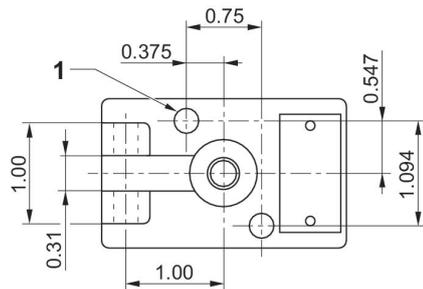
Series A-Pilotair®

Flow: 1300 l/min
 Activation: Mechanical
 Min. control pressure: 0 bar
 Max. control pressure: 13.7 bar
 Ambient temperature min./max.: -40 °C ... 93 °C
 Medium temperature min./max.: -40 °C ... 93 °C
 Working pressure min./max.: 0 bar ... 17.3 bar



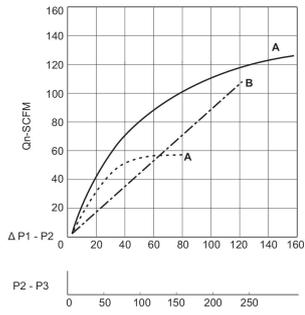
Valve function	Housing material	Compressed air connection output	Part No.
NC	Die-cast aluminum	1/4 - 18 NPTF	R431004661

Dimensions in inches



- 1) Mounting hole Ø26
- 2) Air off position
- 3) Air on position
- 4) Full on position
- 5) 1/4 - 18 NPTF
- 6) Mounting hole Ø26

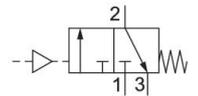
Flow diagram



- A) p1 =200
- A) p1 =80
- B) (p1 - Pp2) Port 1 (input) # Port 2 (Output)
- (p2 - p3) Port 2 (Output) # Port 3 (Exhaust)

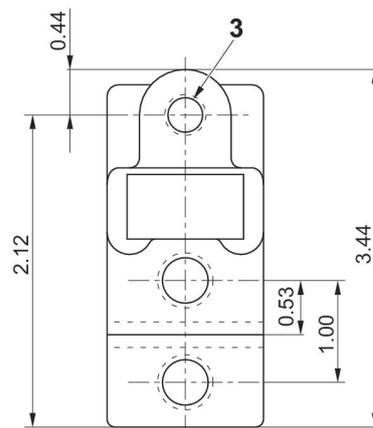
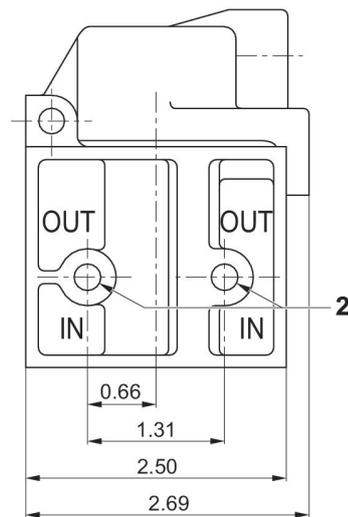
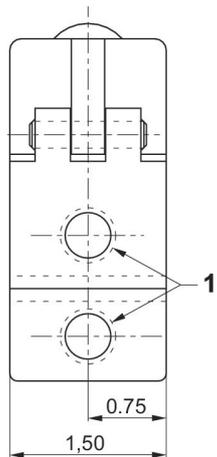
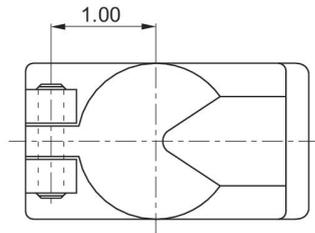
Series A-Pilotair®

Flow: 1300 l/min
 Activation: Mechanical
 Min. control pressure: 0 bar
 Max. control pressure: 13.7 bar
 Ambient temperature min./max.: -40 °C ... 93 °C
 Medium temperature min./max.: -40 °C ... 93 °C
 Working pressure min./max.: 0 bar ... 17.3 bar



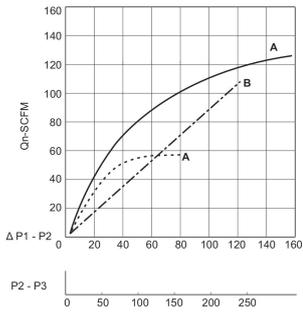
Valve function	Housing material	Compressed air connection output	Part No.
NC	Die-cast aluminum	1/4 - 18 NPT	R431004674

Dimensions in inches



- 1) 1/4 - 18 NPTF
- 2) Mounting hole Ø26
- 3) 1/8-27 NPTF

Flow diagram



- A) $p_1 = 200$
- A) $p_1 = 80$
- B) ($p_1 - P_2$) Port 1 (input) # Port 2 (Output)
- ($p_2 - p_3$) Port 2 (Output) # Port 3 (Exhaust)

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cylinders and drives, valves and valve systems,
air supply management, proportional pressure
control valves



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