Series 200

The series 200 consist of a broad range of valves with various type of actuation.
The connections for this series are from G 1/8" to G 1".
Due to their special construction with a balanced spool, these valves can be used interchangeably as 3 ways or 5 ways.
The 3 ways can be used normally closed or normally open and the 5 ways can be fed through the exhausts 3 and 5 with different pressures according to the need.
The spool, as it is moving, isolates the connections without being affected by the inlet pressure.

Construction characteristics

	G 1/8" - G 1/4" - G 1/2" - G 1"
Body	Aluminium
Spacers	Technopolymer Aluminium for G1" (211)
Seals	NBR PUR for 212/2
Springs	Spring steel
Operators	Aluminium Technopolymer
Pistons	Technopolymer, for 228 pneumatic command valves Aluminium, for 224, 212, 212/2 and 211 pneumatic command valves
Spools	Steel Aluminium, for 212/2

Use and maintenance

This valves have an average life of 15 million cycles depending on the application and air quality.
Filtered and lubricated air using specified lubricants will reduce the wear of the seals and ensures long and trouble free operation.
Please ensure that the valve is being used according with the manufacturers specification, such as air pressure and temperature.
The exhaust port of the distributor has to be protected in a dusty and dirty environment.
Repair kits including the spool complete with seals are available for overhauling the valves.
However, although this is a simple operation it should be carried out by a competent person.

ATTENTION: use hydraulic oil class H for lubrication such as CASTROL MAGNA SW32.

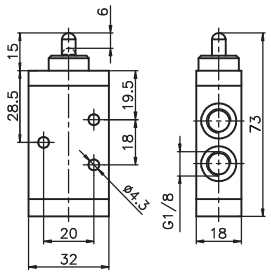
Tappet - Spring

Coding: 228.Ⓣ.0.1

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +70
Flow rate at 6 bar with Δp=1 (Nl/min)	540
Orifice size (mm)	6
Working ports size	G1/8"

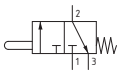
	TYPE
Ⓣ	**32** = 3 ways, 2 positions
	52 = 5 ways, 2 positions

3/2 ways

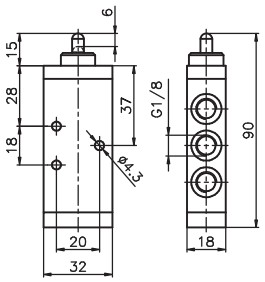


Weight 85 g
Operating force 33 N

228.32.0.1

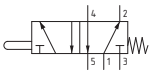


5/2 ways



Weight 105 g
Operating force 33 N

228.52.0.1



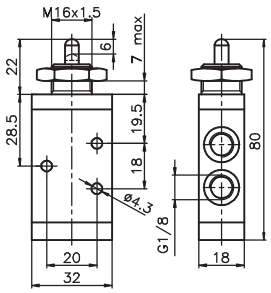
Tappet panel - Spring

Coding: 228.Ⓣ.1.1

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +70
Flow rate at 6 bar with Δp=1 (Nl/min)	540
Orifice size (mm)	6
Working ports size	G1/8"

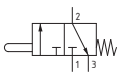
	TYPE
Ⓣ	**32** = 3 ways, 2 positions
	52 = 5 ways, 2 positions

3/2 ways

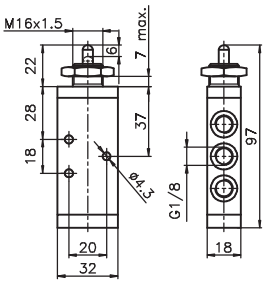


Weight 102 g
Operating force 33 N

228.32.1.1

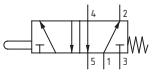


5/2 ways



Weight 122 g
Operating force 33 N

228.52.1.1



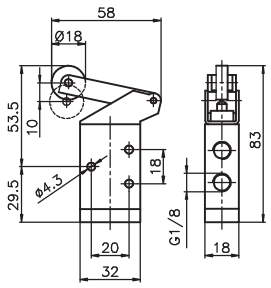
Lever roller-Spring

Coding: 228.Ⓣ.2.Ⓥ

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +70
Flow rate at 6 bar with Δp=1 (Nl/min)	540
Orifice size (mm)	6
Working ports size	G1/8"

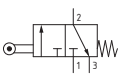
	TYPE
Ⓣ	**32** = 3 ways, 2 positions
	52 = 5 ways, 2 positions
	VERSION
Ⓥ	**1** = Plastic roller
	1/2 = Metal roller

3/2 ways

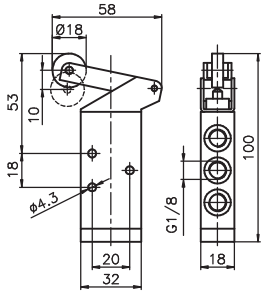


Weight 115 g
Operating force 15 N

228.32.2.Ⓥ

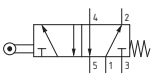


5/2 ways



Weight 135 g
Operating force 15 N

228.52.2.Ⓥ

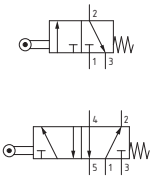


Lever roller ball bearing - Spring

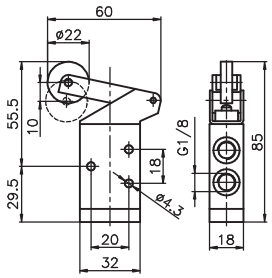
Coding: 228.Ⓣ.2.1/1

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +70
Flow rate at 6 bar with Δp=1 (Nl/min)	540
Orifice size (mm)	6
Working ports size	G1/8"

	TYPE
Ⓣ	**32** = 3 ways, 2 positions
	52 = 5 ways, 2 positions



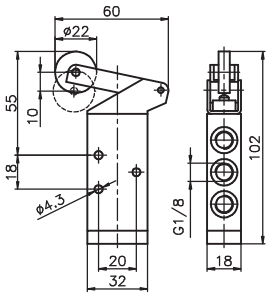
3/2 ways



Weight 130 g
Operating force 15 N

228.32.2.1/1

5/2 ways



Weight 150 g
Operating force 15 N

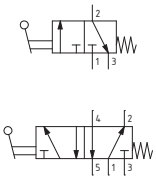
228.52.2.1/1

Lever button - Spring

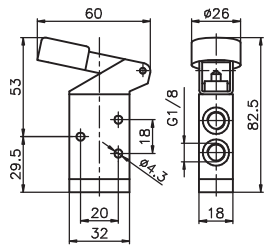
Coding: 228.Ⓣ.2.6/Ⓒ

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +70
Flow rate at 6 bar with Δp=1 (Nl/min)	540
Orifice size (mm)	6
Working ports size	G1/8"

	TYPE
Ⓣ	**32** = 3 ways, 2 positions
	52 = 5 ways, 2 positions
	BUTTON COLOR
Ⓒ	**1** = Red
	2 = Black
	3 = Green



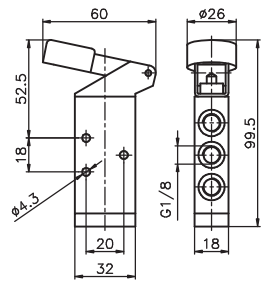
3/2 ways



Weight 120 g
Operating force 15 N

228.32.2.6/Ⓒ

5/2 ways



Weight 120 g
Operating force 15 N

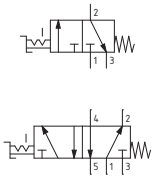
228.52.2.6/Ⓒ

Switch lateral 2 positions

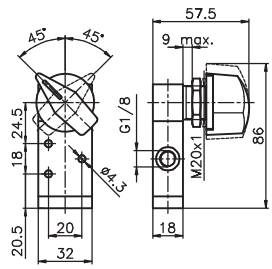
Coding: 228.Ⓣ.27

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +70
Flow rate at 6 bar with Δp=1 (Nl/min)	540
Orifice size (mm)	6
Working ports size	G1/8"

	TYPE
Ⓣ	**32** = 3 ways, 2 positions
	52 = 5 ways, 2 positions



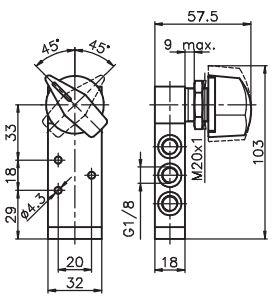
3/2 ways



Weight 190 g

228.32.27

5/2 ways



Weight 210 g

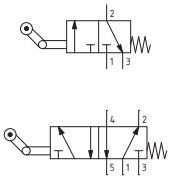
228.52.27

Lever roller unidirectional - Spring

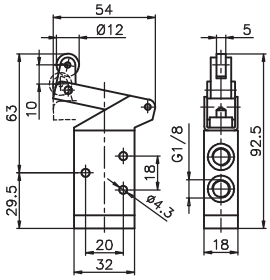
Coding: 228.Ⓣ.3.Ⓥ

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +70
Flow rate at 6 bar with Δp=1 (Nl/min)	540
Orifice size (mm)	6
Working ports size	G1/8"

	TYPE
Ⓣ	**32** = 3 ways, 2 positions
	52 = 5 ways, 2 positions
Ⓥ	VERSION
	1 = Plastic roller
	1/2 = Metal roller

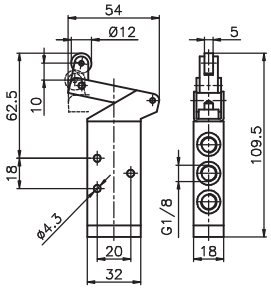


3/2 ways



Weight 110 g

228.32.3.Ⓥ



Weight 130 g

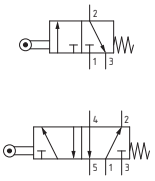
228.52.3.Ⓥ

Lever roller lateral bidirectional - Spring

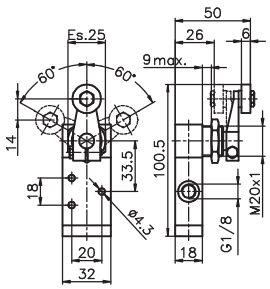
Coding: 228.Ⓣ.4.1

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +70
Flow rate at 6 bar with Δp=1 (Nl/min)	540
Orifice size (mm)	6
Working ports size	G1/8"

	TYPE
Ⓣ	**32** = 3 ways, 2 positions
	52 = 5 ways, 2 positions



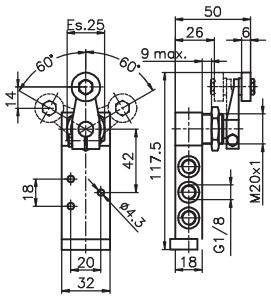
3/2 ways



Weight 180 g

228.32.4.1

5/2 ways



Weight 200 g

228.52.4.1

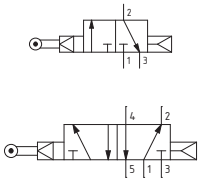
Lever sensitive - differential

Coding: 228.Ⓣ.4.13

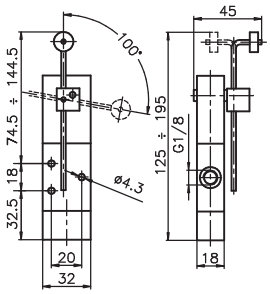
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +70
Flow rate at 6 bar with Δp=1 (Nl/min)	540
Orifice size (mm)	6
Working ports size	G1/8"

	TYPE
Ⓣ	**32** = 3 ways, 2 positions
	52 = 5 ways, 2 positions

Minimum rotation angle 11°



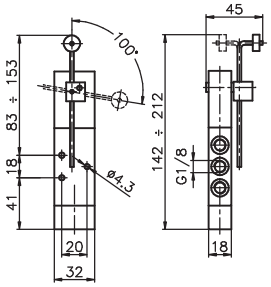
3/2 ways



Weight 200 g
Minimum working pressure 2,5 bar

228.32.4.13

5/2 ways



Weight 220 g
Minimum rotation angle 11°
Minimum working pressure 2,5 bar

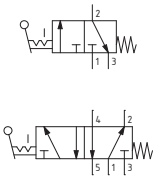
228.52.4.13

Lever panel Ø30 - 2 positions

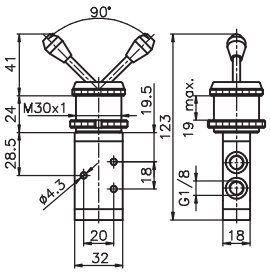
Coding: 228.Ⓣ.5/Ⓒ

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +70
Flow rate at 6 bar with Δp=1 (Nl/min)	540
Orifice size (mm)	6
Working ports size	G1/8"

Ⓣ	TYPE
	32 = 3 ways, 2 positions
	52 = 5 ways, 2 positions
Ⓒ	LEVER COLOR
	1 = Red
	2 = Black
	3 = Green



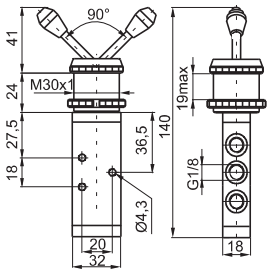
3/2 ways



Weight 198 g

228.32.5/Ⓒ

5/2 ways



Weight 218 g

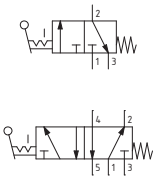
228.52.5/Ⓒ

Frontal lever - 2 positions

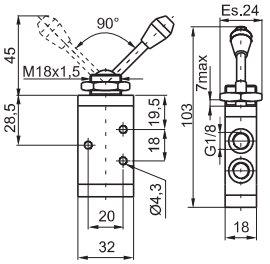
Coding: 228.Ⓣ.55/Ⓒ

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +70
Flow rate at 6 bar with Δp=1 (Nl/min)	540
Orifice size (mm)	6
Working ports size	G1/8"

Ⓣ	TYPE
	32 = 3 ways, 2 positions
	52 = 5 ways, 2 positions
Ⓒ	LEVER COLOR
	1 = Red
	2 = Black
	3 = Green



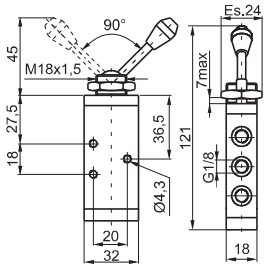
3/2 ways



Weight 115 g

228.32.55/Ⓒ

5/2 ways



Weight 135 g

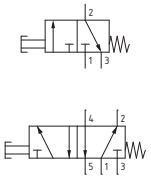
228.52.55/Ⓒ

Push button Ø30 - spring

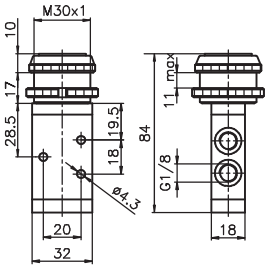
Coding: 228.Ⓣ.6.1/Ⓒ

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +70
Flow rate at 6 bar with Δp=1 (Nl/min)	540
Orifice size (mm)	6
Working ports size	G1/8"

Ⓣ	TYPE
	32 = 3 ways, 2 positions
	52 = 5 ways, 2 positions
Ⓒ	BUTTON COLOR
	1 = Red
	2 = Black
	3 = Green



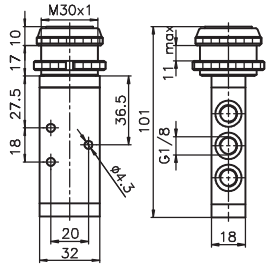
3/2 ways



Weight 155 g
Operating force 33 N

228.32.6.1/Ⓒ

5/2 ways



Weight 175 g
Operating force 33 N

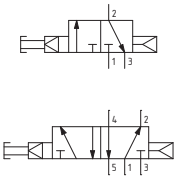
228.52.6.1/Ⓒ

Sensitive push button Ø30 - differential

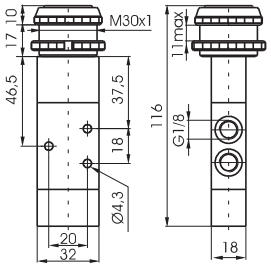
Coding: 228.Ⓣ.6.13/Ⓒ

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +70
Flow rate at 6 bar with Δp=1 (Nl/min)	540
Orifice size (mm)	6
Working ports size	G1/8"

	TYPE
Ⓣ	**32** = 3 ways, 2 positions
	52 = 5 ways, 2 positions
	BUTTON COLOR
Ⓒ	**1** = Red
	2 = Black
	3 = Green



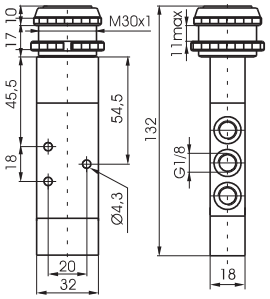
3/2 ways



Weight 197 g
Operating force 18,5 N (at 6 bar)

228.32.6.13/Ⓒ

5/2 ways



Weight 217 g
Operating force 18,5 N (at 6 bar)

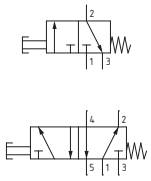
228.52.6.13/Ⓒ

Push button - Spring

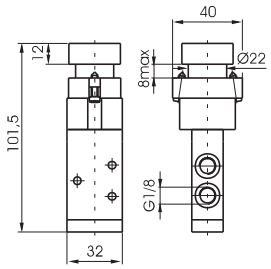
Coding: 228.Ⓣ.6.22/Ⓒ

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +70
Flow rate at 6 bar with Δp=1 (Nl/min)	540
Orifice size (mm)	6
Working ports size	G1/8"

	TYPE
Ⓣ	**32** = 3 ways, 2 positions
	52 = 5 ways, 2 positions
	BUTTON COLOR
Ⓒ	**1** = Red
	2 = Black
	3 = Green
	4 = Yellow



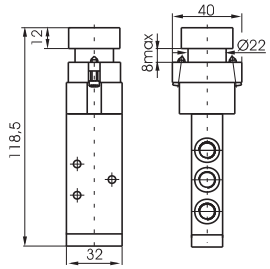
3/2 ways



Weight 225 g
Operating force 33 N

228.32.6.22/Ⓒ

5/2 ways



Weight 245 g
Operating force 33 N

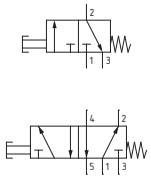
228.52.6.22/Ⓒ

Raised push button Ø22 - Spring

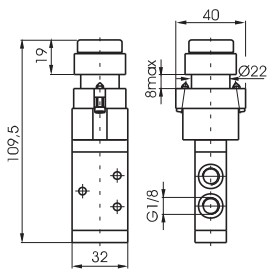
Coding: 228.Ⓣ.6.23/Ⓒ

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +70
Flow rate at 6 bar with Δp=1 (Nl/min)	540
Orifice size (mm)	6
Working ports size	G1/8"

	TYPE
Ⓣ	**32** = 3 ways, 2 positions
	52 = 5 ways, 2 positions
	BUTTON COLOR
Ⓒ	**1** = Red
	2 = Black
	3 = Green
	4 = Yellow



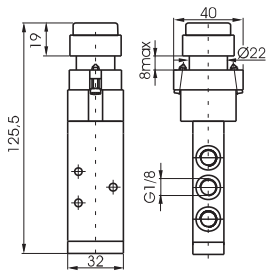
3/2 ways



Weight 230 g
Operating force 33 N

228.32.6.23/Ⓒ

5/2 ways



Weight 250 g
Operating force 33 N

228.52.6.23/Ⓒ

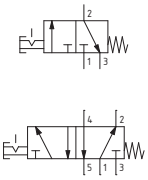
Push button Ø22 - 2 positions

Coding: 228.Ⓣ.6.25

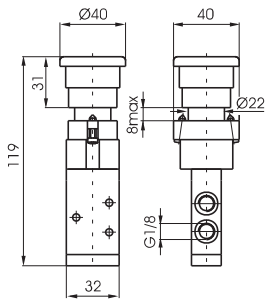
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +70
Flow rate at 6 bar with Δp=1 (Nl/min)	540
Orifice size (mm)	6
Working ports size	G1/8"

Ⓣ	TYPE
	32 = 3 ways, 2 positions
	52 = 5 ways, 2 positions

Emergency - Rotate to unlock



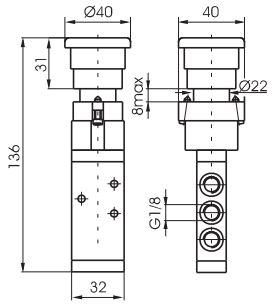
3/2 ways



Weight 235 g
Operating force 33 N

228.32.6.25

5/2 ways



Weight 235 g
Operating force 33 N

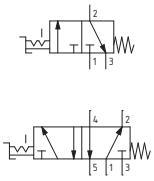
228.52.6.25

Switch 2 positions

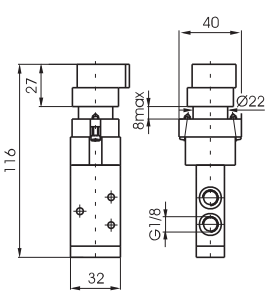
Coding: 228.Ⓣ.6.27

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +70
Flow rate at 6 bar with Δp=1 (Nl/min)	540
Orifice size (mm)	6
Working ports size	G1/8"

Ⓣ	TYPE
	32 = 3 ways, 2 positions
	52 = 5 ways, 2 positions



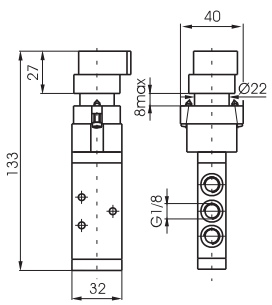
3/2 ways



Weight 230 g

228.32.6.27

5/2 ways



Weight 250 g

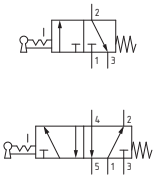
228.52.6.27

Key switch 2 positions

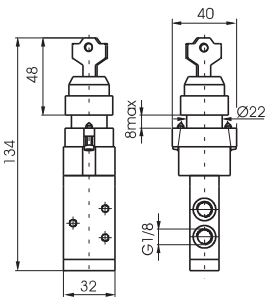
Coding: 228.Ⓣ.6.28

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +70
Flow rate at 6 bar with Δp=1 (Nl/min)	540
Orifice size (mm)	6
Working ports size	G1/8"

Ⓣ	TYPE
	32 = 3 ways, 2 positions
	52 = 5 ways, 2 positions



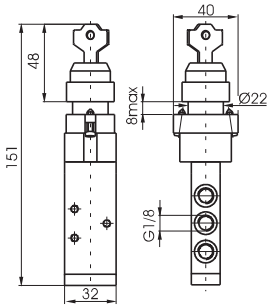
3/2 ways



Weight 230 g

228.32.6.28

5/2 ways



Weight 250 g

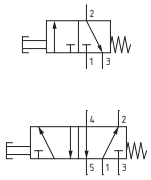
228.52.6.28

Palm push button Ø30 2 positions

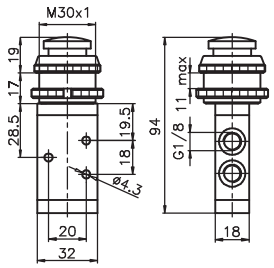
Coding: 228.Ⓣ.7.1/Ⓒ

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +70
Flow rate at 6 bar with Δp=1 (Nl/min)	540
Orifice size (mm)	6
Working ports size	G1/8"

Ⓣ	TYPE
	32 = 3 ways, 2 positions
	52 = 5 ways, 2 positions
Ⓒ	BUTTON COLOR
	1 = Red
	2 = Black
	3 = Green



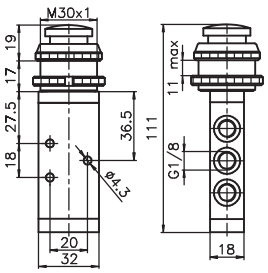
3/2 ways



Weight 148 g

228.32.7.1/Ⓒ

5/2 ways



Weight 168 g

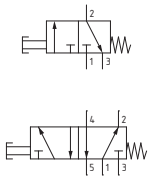
228.52.7.1/Ⓒ

Push button - Spring

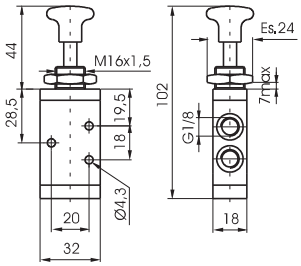
Coding: 228.Ⓣ.8.1/Ⓒ

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +70
Flow rate at 6 bar with Δp=1 (Nl/min)	540
Orifice size (mm)	6
Working ports size	G1/8"

Ⓣ	TYPE
	32 = 3 ways, 2 positions
	52 = 5 ways, 2 positions
Ⓒ	BUTTON COLOR
	1 = Red
	2 = Black
	3 = Green



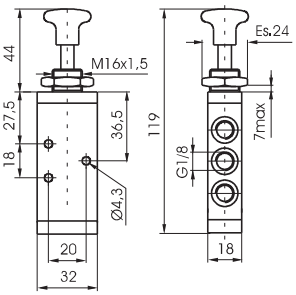
3/2 ways



Weight 120 g

228.32.8.1/Ⓒ

5/2 ways



Weight 140 g

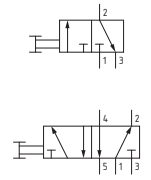
228.52.8.1/Ⓒ

Push button 2 positions

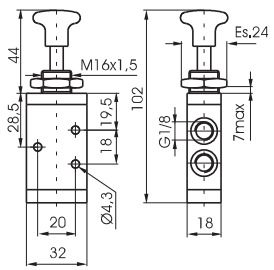
Coding: 228.Ⓣ.8/Ⓒ

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +70
Flow rate at 6 bar with Δp=1 (Nl/min)	540
Orifice size (mm)	6
Working ports size	G1/8"

Ⓣ	TYPE
	32 = 3 ways, 2 positions
	52 = 5 ways, 2 positions
Ⓒ	BUTTON COLOR
	1 = Red
	2 = Black
	3 = Green



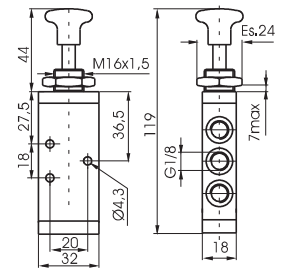
3/2 ways



Weight 120 g

228.32.8/Ⓒ

5/2 ways



Weight 140 g

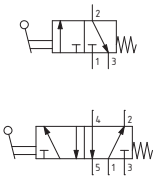
228.52.8/Ⓒ

Lever lateral - Spring

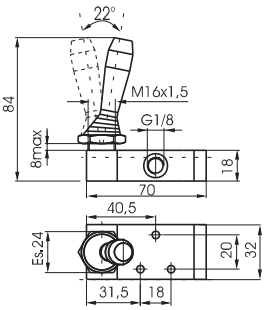
Coding: 228.Ⓣ.9.1/Ⓒ

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +70
Flow rate at 6 bar with Δp=1 (Nl/min)	540
Orifice size (mm)	6
Working ports size	G1/8"

Ⓣ	TYPE
	32 = 3 ways, 2 positions
	52 = 5 ways, 2 positions
Ⓒ	LEVER COLOR
	1 = Red
	2 = Black
	3 = Green



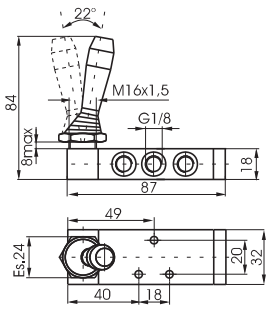
3/2 ways



Weight 140 g

228.32.9.1/Ⓒ

5/2 ways



Weight 160 g

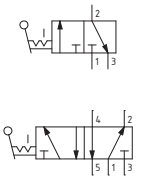
228.52.9.1/Ⓒ

Lever lateral 2 positions

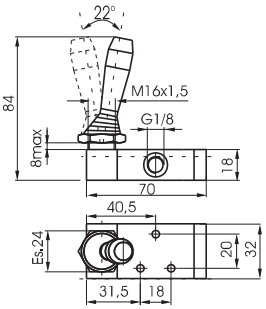
Coding: 228.Ⓣ.9/Ⓒ

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +70
Flow rate at 6 bar with Δp=1 (Nl/min)	540
Orifice size (mm)	6
Working ports size	G1/8"

Ⓣ	TYPE
	32 = 3 ways, 2 positions
	52 = 5 ways, 2 positions
Ⓒ	LEVER COLOR
	1 = Red
	2 = Black
	3 = Green



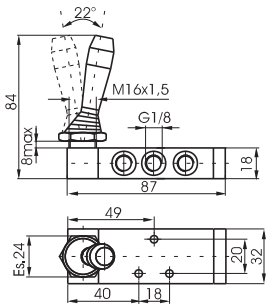
3/2 ways



Weight 140 g

228.32.9/Ⓒ

5/2 ways



Weight 160 g

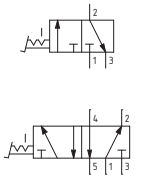
228.52.9/Ⓒ

Pedal aluminium 2 positions

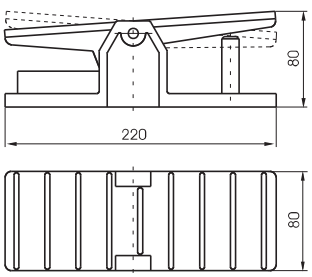
Coding: 228.Ⓣ.10

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +70
Flow rate at 6 bar with Δp=1 (Nl/min)	540
Orifice size (mm)	6
Working ports size	G1/8"

Ⓣ	TYPE
	32 = 3 ways, 2 positions
	52 = 5 ways, 2 positions



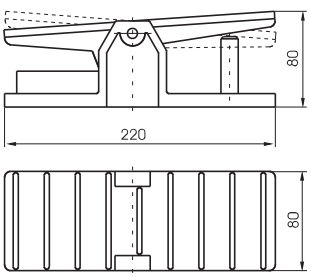
3/2 ways



Weight 790 g

228.32.10

5/2 ways



Weight 810 g

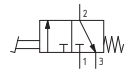
228.52.10

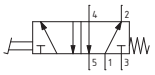
Pedal aluminium - Spring

Coding: 228.Ⓣ.10.1

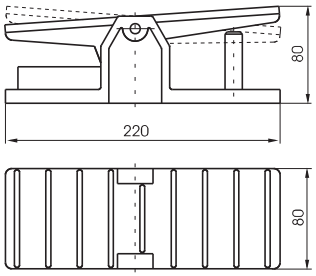
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +70
Flow rate at 6 bar with Δp=1 (Nl/min)	540
Orifice size (mm)	6
Working ports size	G1/8"

	TYPE
Ⓣ	**32** = 3 ways, 2 positions
	52 = 5 ways, 2 positions





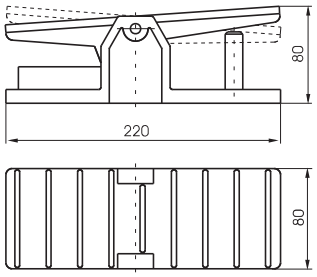
3/2 ways



Weight 790 g

228.32.10.1

5/2 ways



Weight 810 g

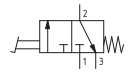
228.52.10.1

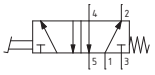
Pedal protected - Spring

Coding: 228.Ⓣ.10.Ⓥ

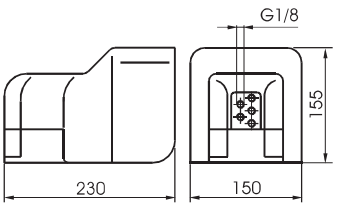
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +70
Flow rate at 6 bar with Δp=1 (Nl/min)	540
Orifice size (mm)	6
Working ports size	G1/8"

	TYPE
Ⓣ	**32** = 3 ways, 2 positions
	52 = 5 ways, 2 positions
	VERSION
Ⓥ	**1/1** = Standard version
	2/1 = without safety device





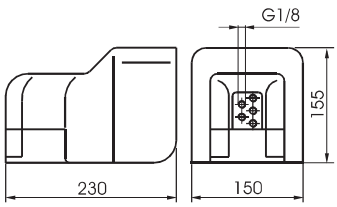
3/2 ways



Weight 1120 g

228.32.10.Ⓥ

5/2 ways



Weight 1120 g

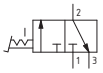
228.52.10.Ⓥ

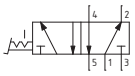
Pedal protected 2 positions

Coding: 228.Ⓣ.10/1

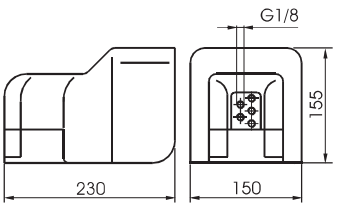
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +70
Flow rate at 6 bar with Δp=1 (Nl/min)	540
Orifice size (mm)	6
Working ports size	G1/8"

	TYPE
Ⓣ	**32** = 3 ways, 2 positions
	52 = 5 ways, 2 positions





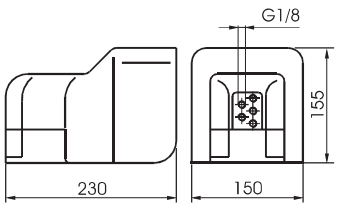
3/2 ways



Weight 1120 g

228.32.10/1

5/2 ways



Weight 1120 g

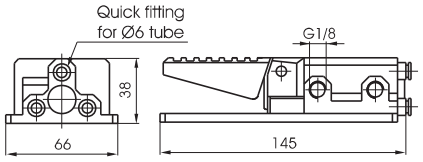
228.52.10/1

Pedal plastic miniaturized - Spring

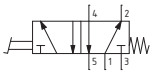
Coding: 228.52.10.Ⓕ

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +70
Flow rate at 6 bar with Δp=1 (Nl/min)	540
Orifice size (mm)	6
Working ports size	G1/8"

	FUNCTION
Ⓕ	**1P** = Standard version
	1PX = Stainless steel spool



Weight 230 g



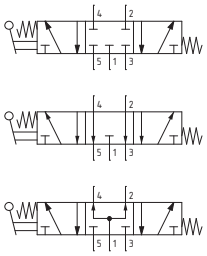
Lever lateral spring centre 3 positions

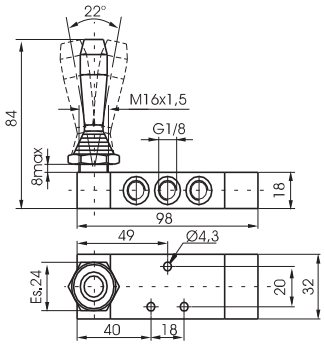
Coding: 228.53.Ⓕ.9.1/Ⓒ

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +70
Flow rate at 6 bar with Δp=1 (Nl/min)	540
Orifice size (mm)	6
Working ports size	G1/8"

	FUNCTION
Ⓕ	**31** = Closed centres
	32 = Open centres
	33 = Pressured centres
Ⓒ	LEVER COLOR
	1 = Red
	2 = Black
	3 = Green

Weight 190 g





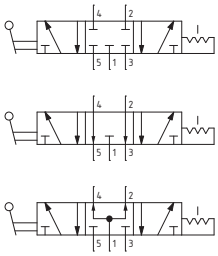
Lever lateral 3 positions detent

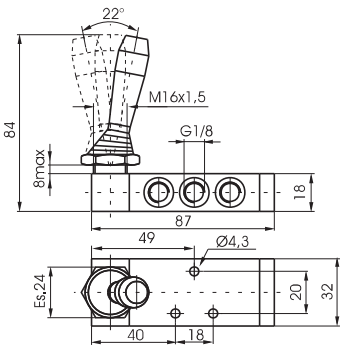
Coding: 228.53.Ⓕ.9/Ⓒ

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +70
Flow rate at 6 bar with Δp=1 (Nl/min)	540
Orifice size (mm)	6
Working ports size	G1/8"

	FUNCTION
Ⓕ	**31** = Closed centres
	32 = Open centres
	33 = Pressured centres
Ⓒ	LEVER COLOR
	1 = Red
	2 = Black
	3 = Green

Weight 160 g





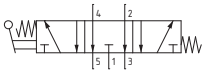
Lever central (spring 3 pos.) Operator, Levar, Spole in Technopolymer

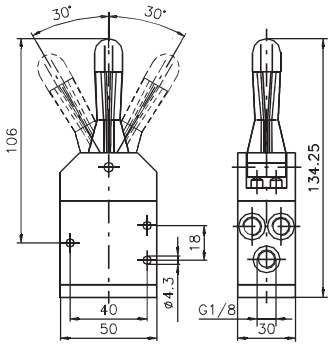
Coding: 228.53.32.99P/©

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +70
Flow rate at 6 bar with Δp=1 (Nl/min)	410
Orifice size (mm)	6
Working ports size	G1/8"

©	LEVER COLOR
	1 = Red
	2 = Black

Weight 140 g





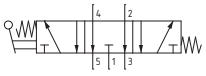
Lever central (spring 3 pos.) Levar in Technopolymer

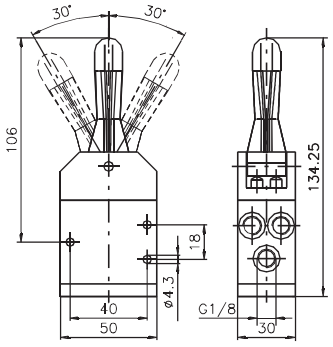
Coding: 228.53.32.99/©

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +70
Flow rate at 6 bar with Δp=1 (Nl/min)	410
Orifice size (mm)	6
Working ports size	G1/8"

©	LEVER COLOR
	1 = Red
	2 = Black

Weight 140 g





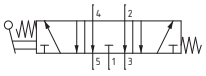
Lever central Metal (spring 3 pos.) One position stable

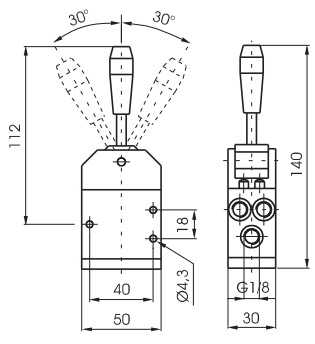
Coding: 228.53.32.99/©.S

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +70
Flow rate at 6 bar with Δp=1 (Nl/min)	410
Orifice size (mm)	6
Working ports size	G1/8"

©	LEVER COLOR
	1 = Red
	2 = Black

Weight 140 g



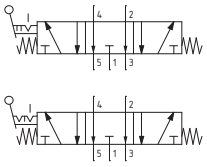


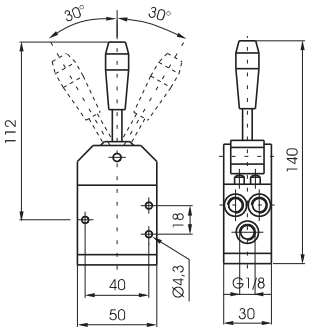
Lever central Metal

Coding: 228.53.32.99.Ⓕ/Ⓒ

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +70
Flow rate at 6 bar with Δp=1 (Nl/min)	410
Orifice size (mm)	6
Working ports size	G1/8"

	FUNCTION
Ⓕ	**2** = 2 stable positions
	3 = 3 stable positions
Ⓒ	LEVER COLOR
	1 = Red
	2 = Black





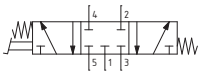
Weight 140 g

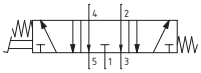
Pedal - Spring 3 positions

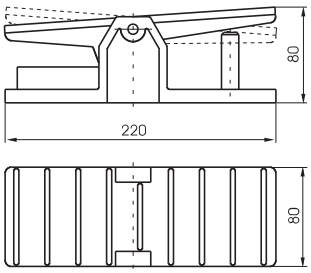
Coding: 228.53.Ⓕ.10.1

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +70
Flow rate at 6 bar with Δp=1 (Nl/min)	410
Orifice size (mm)	6
Working ports size	G1/8"

	FUNCTION
Ⓕ	**31** = Closed centres
	32 = Open centres







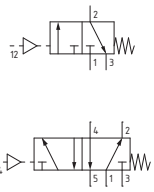
Weight 810 g

Pneumatic - Spring

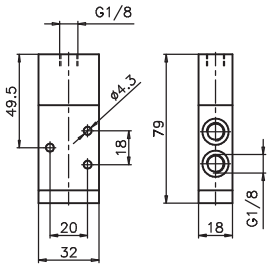
Coding: 228.Ⓣ.11.1

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +70
Flow rate at 6 bar with Δp=1 (Nl/min)	540
Orifice size (mm)	6
Working ports size	G1/8"
Pilot ports size	G1/8"

Ⓣ	TYPE
	32 = 3 ways, 2 positions
	52 = 5 ways, 2 positions



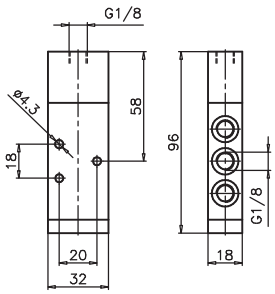
3/2 ways



Weight 110 g
Minimum pilot pressure 2,5 bar

228.32.11.1

5/2 ways



Weight 130 g
Minimum pilot pressure 2,5 bar

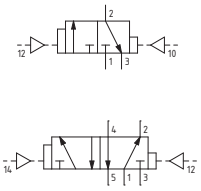
228.52.11.1

Pneumatic - Differential

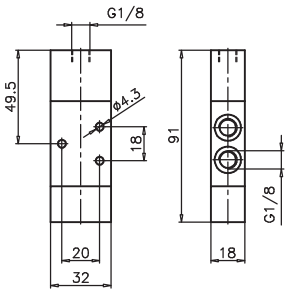
Coding: 228.Ⓣ.11.12

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +70
Flow rate at 6 bar with Δp=1 (Nl/min)	540
Orifice size (mm)	6
Working ports size	G1/8"
Pilot ports size	G1/8"

Ⓣ	TYPE
	32 = 3 ways, 2 positions
	52 = 5 ways, 2 positions



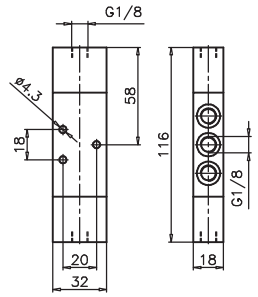
3/2 ways



Weight 140 g
Minimum pilot pressure 2,5 bar

228.32.11.12

5/2 ways



Weight 160 g
Minimum pilot pressure 2,5 bar

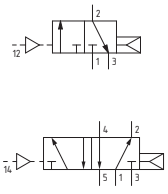
228.52.11.12

Pneumatic-Differential (Self feeding)

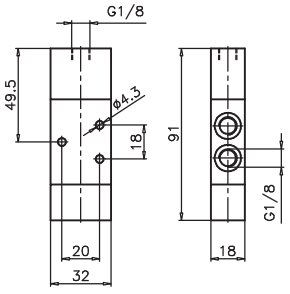
Coding: 228.Ⓣ.11.12/1

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +70
Flow rate at 6 bar with Δp=1 (Nl/min)	540
Orifice size (mm)	6
Working ports size	G1/8"
Pilot ports size	G1/8"

Ⓣ	TYPE
	32 = 3 ways, 2 positions
	52 = 5 ways, 2 positions



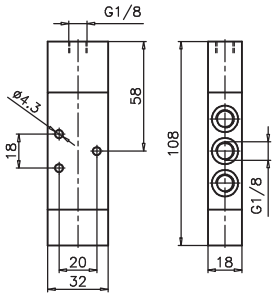
3/2 ways



Weight 130 g
Minimum pilot pressure 2,5 bar

228.32.11.12/1

5/2 ways



Weight 150 g
Minimum pilot pressure 2,5 bar

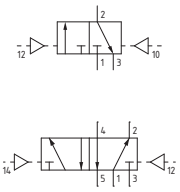
228.52.11.12/1

Pneumatic-Pneumatic

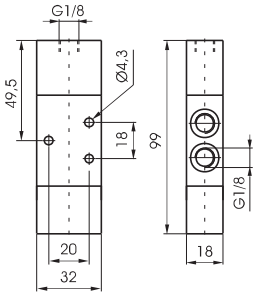
Coding: 228.Ⓣ.11.11

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +70
Flow rate at 6 bar with Δp=1 (Nl/min)	540
Orifice size (mm)	6
Working ports size	G1/8"
Pilot ports size	G1/8"

Ⓣ	TYPE
	32 = 3 ways, 2 positions
	52 = 5 ways, 2 positions



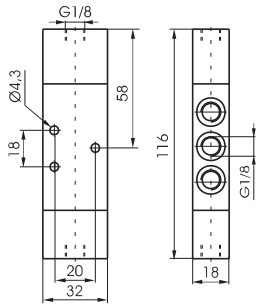
3/2 ways



Weight 140 g
Minimum pilot pressure 2 bar

228.32.11.11

5/2 ways



Weight 160 g
Minimum pilot pressure 2 bar

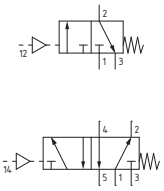
228.52.11.11

Amplified pneumatic - Spring

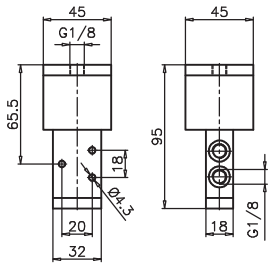
Coding: 228.Ⓣ.13.1

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +70
Flow rate at 6 bar with Δp=1 (Nl/min)	540
Orifice size (mm)	6
Working ports size	G1/8"
Pilot ports size	G1/8"

Ⓣ	TYPE
	32 = 3 ways, 2 positions
	52 = 5 ways, 2 positions



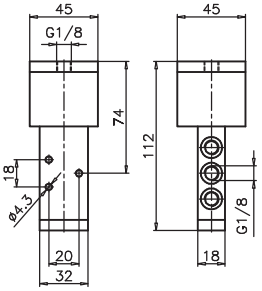
3/2 ways



Weight 260 g
Minimum pilot pressure 0,5 bar

228.32.13.1

5/2 ways



Weight 290 g
Minimum pilot pressure 0,5 bar

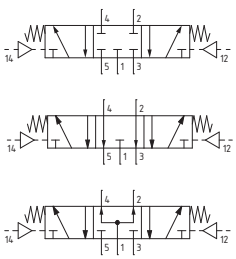
228.52.13.1

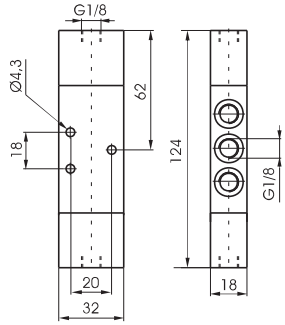
Pneumatic-Pneumatic 5/3

Coding: 228.53.Ⓕ.11.11

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +70
Flow rate at 6 bar with Δp=1 (Nl/min)	410
Orifice size (mm)	6
Working ports size	G1/8"
Pilot ports size	G1/8"

Ⓕ	FUNCTION
	31 = Closed centres
	32 = Open centres
	33 = Pressured centres





Weight 180 g
Minimum pilot pressure 3 bar

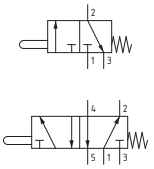
228.53.Ⓕ.11.11

Tappet panel - Spring

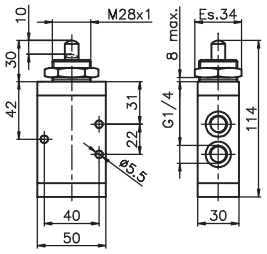
Coding: 224.Ⓣ.1.1

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +70
Flow rate at 6 bar with Δp=1 (Nl/min)	1360
Orifice size (mm)	8
Working ports size	G1/4"

Ⓣ	TYPE
	32 = 3 ways, 2 positions
	52 = 5 ways, 2 positions



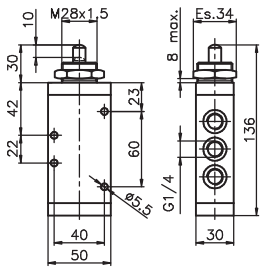
3/2 ways



Weight 370 g
Operating force 71,5 N

224.32.1.1

5/2 ways



Weight 455 g
Operating force 71,5 N

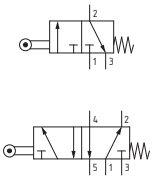
224.52.1.1

Lever roller - Spring

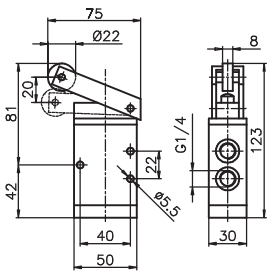
Coding: 224.Ⓣ.2.1

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +70
Flow rate at 6 bar with Δp=1 (Nl/min)	1360
Orifice size (mm)	8
Working ports size	G1/4"

Ⓣ	TYPE
	32 = 3 ways, 2 positions
	52 = 5 ways, 2 positions



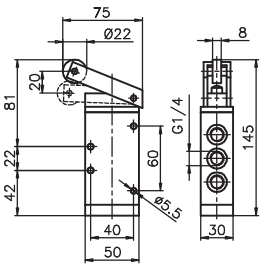
3/2 ways



Weight 510 g
Operating force 35 N

224.32.2.1

5/2 ways



Weight 595 g
Operating force 35 N

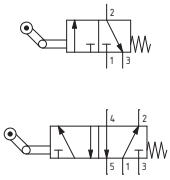
224.52.2.1

Lever roller unidirectional - Spring

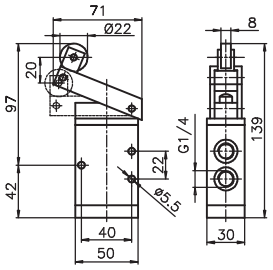
Coding: 224.Ⓣ.3.1

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +70
Flow rate at 6 bar with Δp=1 (Nl/min)	1360
Orifice size (mm)	8
Working ports size	G1/4"

Ⓣ	TYPE
	32 = 3 ways, 2 positions
	52 = 5 ways, 2 positions



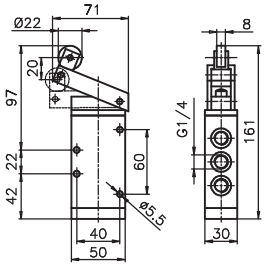
3/2 ways



Weight 525 g
Operating force 35 N

224.32.3.1

5/2 ways



Weight 610 g
Operating force 35 N

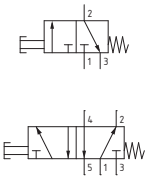
224.52.3.1

Push button - Spring

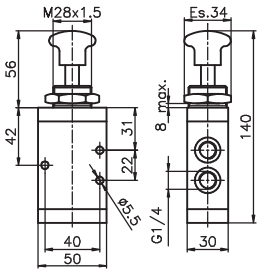
Coding: 224.Ⓣ.8.1

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +70
Flow rate at 6 bar with Δp=1 (Nl/min)	1360
Orifice size (mm)	8
Working ports size	G1/4"

	TYPE
Ⓣ	**32** = 3 ways, 2 positions
	52 = 5 ways, 2 positions



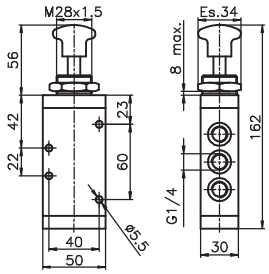
3/2 ways



Weight 395 g
Operating force 71,5 N

224.32.8.1

5/2 ways



Weight 480 g
Operating force 71,5 N

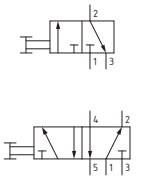
224.52.8.1

Push button 2 positions

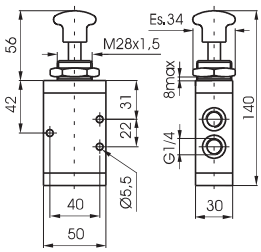
Coding: 224.Ⓣ.8

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +70
Flow rate at 6 bar with Δp=1 (Nl/min)	1360
Orifice size (mm)	8
Working ports size	G1/4"

	TYPE
Ⓣ	**32** = 3 ways, 2 positions
	52 = 5 ways, 2 positions



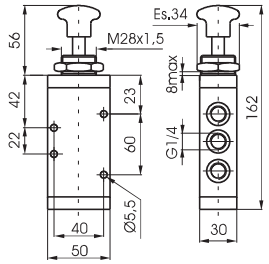
3/2 ways



Weight 385 g
Operating force 13 N

224.32.8

5/2 ways



Weight 470 g
Operating force 13 N

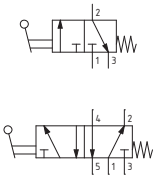
224.52.8

Lever lateral - Spring

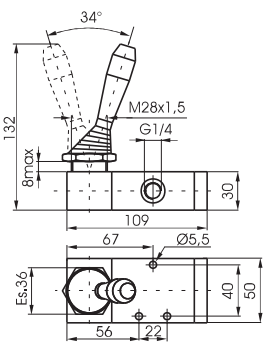
Coding: 224.Ⓣ.9.1/Ⓒ

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +70
Flow rate at 6 bar with Δp=1 (Nl/min)	1360
Orifice size (mm)	8
Working ports size	G1/4"

	TYPE
Ⓣ	**32** = 3 ways, 2 positions
	52 = 5 ways, 2 positions
	LEVER COLOR
Ⓒ	**1** = Red
	2 = Black
	3 = Green



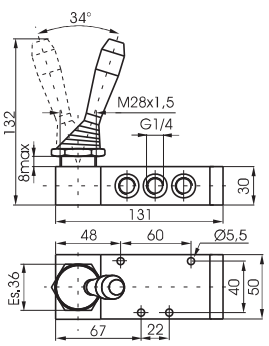
3/2 ways



Weight 520 g

224.32.9.1/Ⓒ

5/2 ways



Weight 605 g

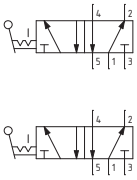
224.52.9.1/Ⓒ

Lever lateral 2 positions

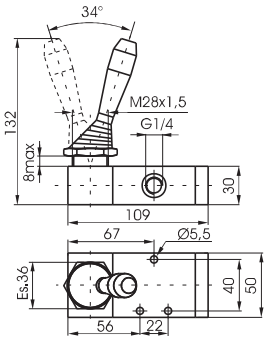
Coding: 224.Ⓣ.9/Ⓒ

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +70
Flow rate at 6 bar with Δp=1 (Nl/min)	1360
Orifice size (mm)	8
Working ports size	G1/4"

Ⓣ	TYPE
	32 = 3 ways, 2 positions
	52 = 5 ways, 2 positions
Ⓒ	LEVER COLOR
	1 = Red
	2 = Black
	3 = Green



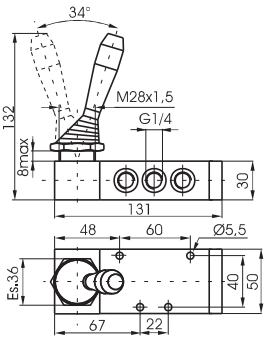
3/2 ways



Weight 510 g

224.32.9/Ⓒ

5/2 ways



Weight 595 g

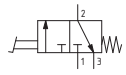
224.52.9/Ⓒ

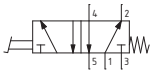
Pedal aluminium - Spring

Coding: 224.Ⓣ.10.1

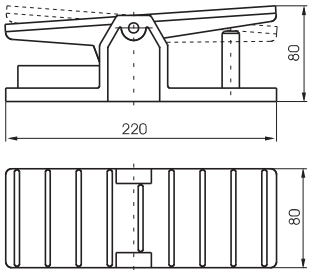
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +70
Flow rate at 6 bar with Δp=1 (Nl/min)	1360
Orifice size (mm)	8
Working ports size	G1/4"

Ⓣ	TYPE
	32 = 3 ways, 2 positions
	52 = 5 ways, 2 positions





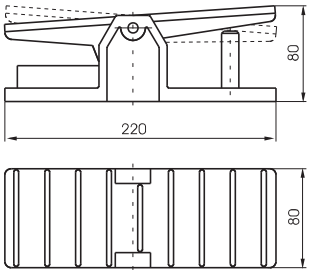
3/2 ways



Weight 1070 g

224.32.10.1

5/2 ways



Weight 1155 g

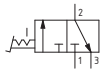
224.52.10.1

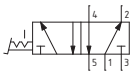
Pedal aluminium 2 positions

Coding: 224.Ⓣ.10

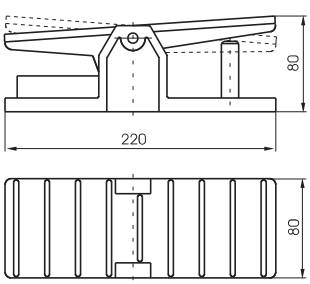
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +70
Flow rate at 6 bar with Δp=1 (Nl/min)	1360
Orifice size (mm)	8
Working ports size	G1/4"

Ⓣ	TYPE
	32 = 3 ways, 2 positions
	52 = 5 ways, 2 positions





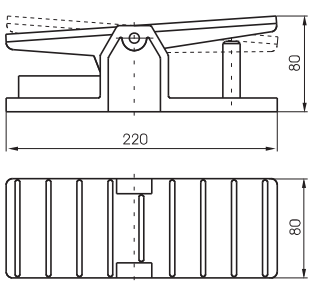
3/2 ways



Weight 1060 g

224.32.10

5/2 ways



Weight 1145 g

224.52.10

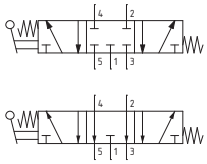
Lateral Lever spring - 3 positions

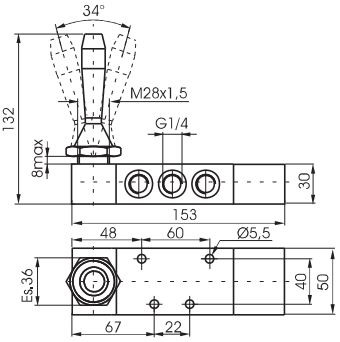
Coding: 224.53.Ⓕ.9.1/Ⓒ

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +70
Flow rate at 6 bar with Δp=1 (Nl/min)	1280
Orifice size (mm)	8
Working ports size	G1/4"

Ⓕ	FUNCTION
	31 = Closed centres
	32 = Open centres
Ⓒ	LEVER COLOR
	1 = Red
	2 = Black
	3 = Green

Weight 745 g





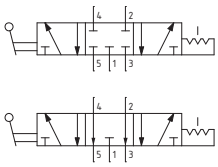
Lever lateral 3 positions detent

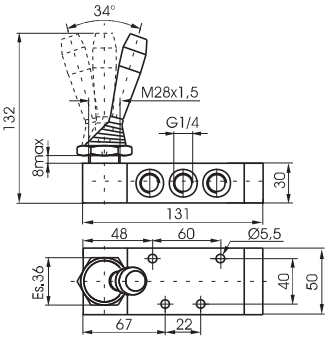
Coding: 224.53.Ⓕ.9/Ⓒ

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +70
Flow rate at 6 bar with Δp=1 (Nl/min)	1280
Orifice size (mm)	8
Working ports size	G1/4"

Ⓕ	FUNCTION
	31 = Closed centres
	32 = Open centres
Ⓒ	LEVER COLOR
	1 = Red
	2 = Black
	3 = Green

Weight 605 g



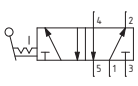


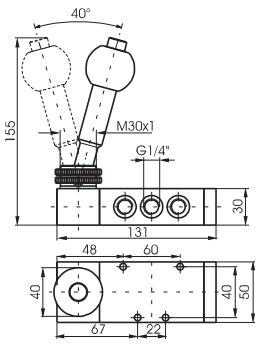
Lever lateral with locking device - 2 positions

Coding: 224.52.9.2

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +70
Flow rate at 6 bar with Δp=1 (Nl/min)	1020
Orifice size (mm)	8
Working ports size	G1/4"

Weight 825 g





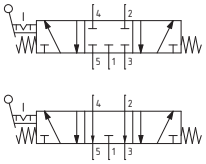
Lever lateral with locking device - Spring 3 positions

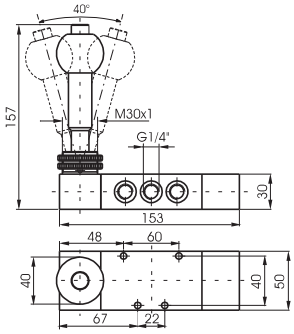
Coding: 224.53.Ⓕ.9.2

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +70
Flow rate at 6 bar with Δp=1 (Nl/min)	1020
Orifice size (mm)	8
Working ports size	G1/4"

	FUNCTION
Ⓕ	**31** = Closed centres
	32 = Open centres

Weight 965 g





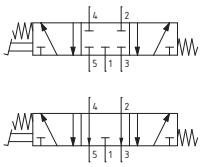
Pedal - Spring 3 positions

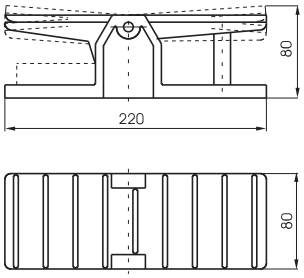
Coding: 224.53.Ⓕ.10.1

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +70
Flow rate at 6 bar with Δp=1 (Nl/min)	1280
Orifice size (mm)	8
Working ports size	G1/4"

	FUNCTION
Ⓕ	**31** = Closed centres
	32 = Open centres

Weight 1285 g





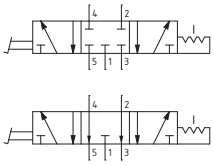
Pedal 3 positions

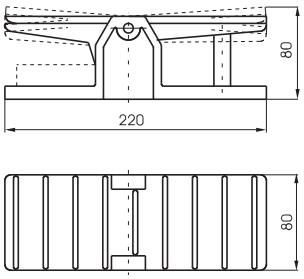
Coding: 224.53.Ⓕ.10

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +70
Flow rate at 6 bar with Δp=1 (Nl/min)	1280
Orifice size (mm)	8
Working ports size	G1/4"

	FUNCTION
Ⓕ	**31** = Closed centres
	32 = Open centres

Weight 1145 g



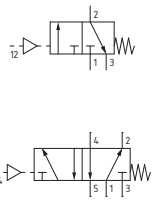


Pneumatic - Spring

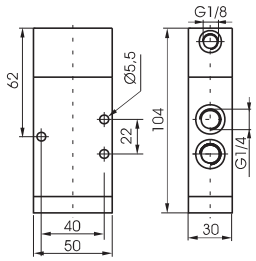
Coding: 224.Ⓣ.11.1

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +70
Flow rate at 6 bar with Δp=1 (Nl/min)	1360
Orifice size (mm)	8
Working ports size	G1/4"
Pilot ports size	G1/8"

Ⓣ	TYPE
	32 = 3 ways, 2 positions
	52 = 5 ways, 2 positions



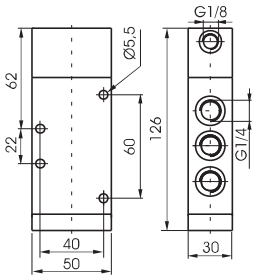
3/2 ways



Weight 370 g
Minimum pilot pressure 2,5 bar

224.32.11.1

5/2 ways



Weight 450 g
Minimum pilot pressure 2,5 bar

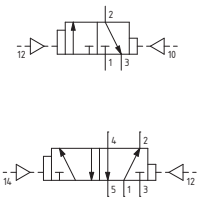
224.52.11.1

Pneumatic - Differential

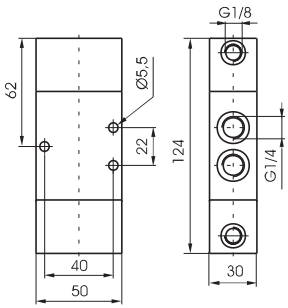
Coding: 224.Ⓣ.11.12

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +70
Flow rate at 6 bar with Δp=1 (Nl/min)	1360
Orifice size (mm)	8
Working ports size	G1/4"
Pilot ports size	G1/8"

Ⓣ	TYPE
	32 = 3 ways, 2 positions
	52 = 5 ways, 2 positions



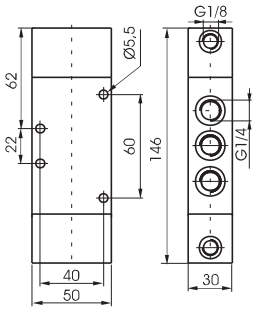
3/2 ways



Weight 480 g
Minimum pilot pressure 2,5 bar

224.32.11.12

5/2 ways



Weight 550 g
Minimum pilot pressure 2,5 bar

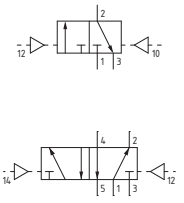
224.52.11.12

Pneumatic-Pneumatic

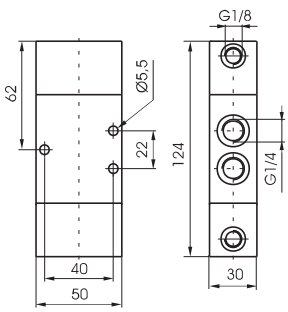
Coding: 224.Ⓣ.11.11

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +70
Flow rate at 6 bar with Δp=1 (Nl/min)	1360
Orifice size (mm)	8
Working ports size	G1/4"
Pilot ports size	G1/8"

Ⓣ	TYPE
	32 = 3 ways, 2 positions
	52 = 5 ways, 2 positions



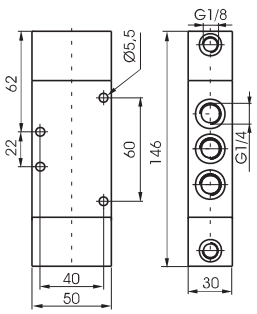
3/2 ways



Weight 470 g
Minimum pilot pressure 2 bar

224.32.11.11

5/2 ways



Weight 540 g
Minimum pilot pressure 2 bar

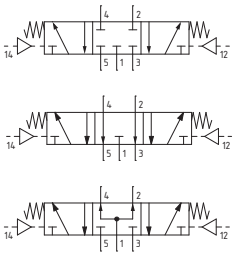
224.52.11.11

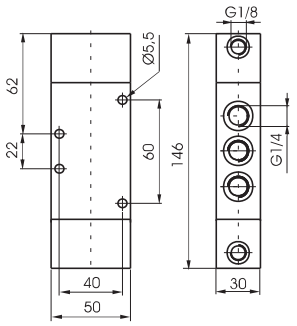
Pneumatic-Pneumatic 5/3

Coding: 224.53.Ⓕ.11.11

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +70
Flow rate at 6 bar with Δp=1 (Nl/min)	1280
Orifice size (mm)	8
Working ports size	G1/4"
Pilot ports size	G1/8"

Ⓕ	FUNCTION
	31 = Closed centres
	32 = Open centres
	33 = Pressured centres





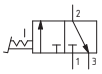
Weight 550 g
Minimum pilot pressure 3 bar

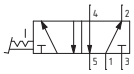
Pedal protected 2 positions

Coding: 214.Ⓣ.10/1

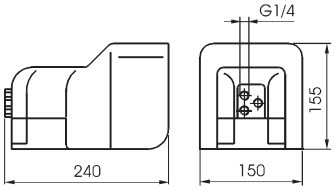
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +70
Flow rate at 6 bar with Δp=1 (Nl/min)	1360
Orifice size (mm)	8
Working ports size	G1/4"

	TYPE
Ⓣ	**32** = 3 ways, 2 positions
	52 = 5 ways, 2 positions





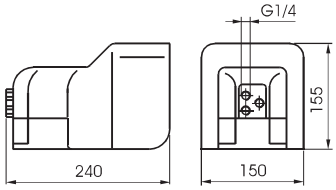
3/2 ways



Weight 1730 g

214.32.10/1

5/2 ways



Weight 1730 g

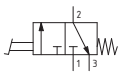
214.52.10/1

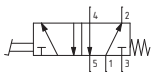
Pedal protected - Spring

Coding: 214.Ⓣ.10.Ⓥ

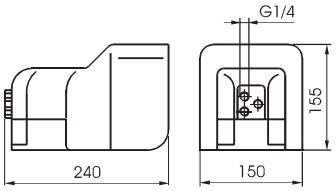
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +70
Flow rate at 6 bar with Δp=1 (Nl/min)	1360
Orifice size (mm)	8
Working ports size	G1/4"

	TYPE
Ⓣ	**32** = 3 ways, 2 positions
	52 = 5 ways, 2 positions
	VERSION
Ⓥ	**1/1** = Standard version
	2/1 = without safety device





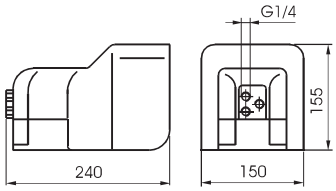
3/2 ways



Weight 1730 g

214.32.10.Ⓥ

5/2 ways



Weight 1730 g

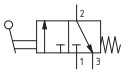
214.52.10.Ⓥ

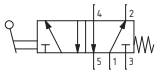
Lever lateral - Spring

Coding: 212.Ⓣ.9.1

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +70
Flow rate at 6 bar with Δp=1 (Nl/min)	3500
Orifice size (mm)	15
Working ports size	G1/2"

Ⓣ	TYPE
	32 = 3 ways, 2 positions
	52 = 5 ways, 2 positions

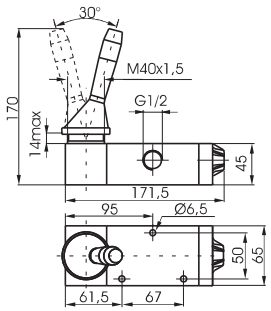




3/2 ways

Weight 1480 g

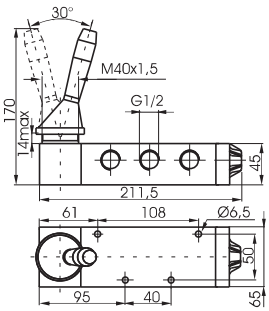
212.32.9.1



5/2 ways

Weight 1765 g

212.52.9.1

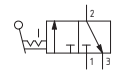


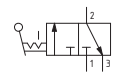
Lever lateral 2 positions

Coding: 212.Ⓣ.9

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +70
Flow rate at 6 bar with Δp=1 (Nl/min)	3500
Orifice size (mm)	15
Working ports size	G1/2"

Ⓣ	TYPE
	32 = 3 ways, 2 positions
	52 = 5 ways, 2 positions

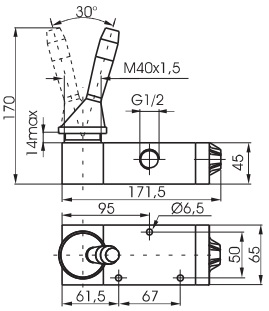




3/2 ways

Weight 1460 g

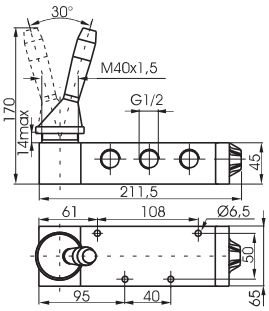
212.32.9



5/2 ways

Weight 1745 g

212.52.9



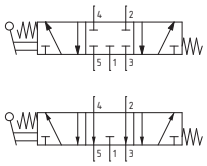
Lever lateral spring centre 3 positions

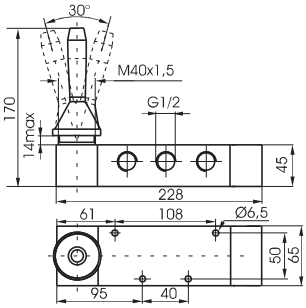
Coding: 212.53.Ⓕ.9.1

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +70
Flow rate at 6 bar with Δp=1 (Nl/min)	3000
Orifice size (mm)	15
Working ports size	G1/2"

Ⓕ	FUNCTION
	31 = Closed centres
	32 = Open centres

Weight 2100 g



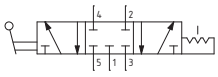


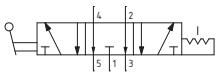
Lever lateral 3 positions detent

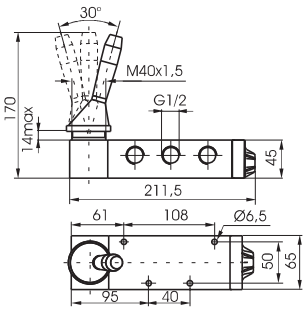
Coding: 212.53.Ⓕ.9

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +70
Flow rate at 6 bar with Δp=1 (Nl/min)	3000
Orifice size (mm)	15
Working ports size	G1/2"

Ⓕ	FUNCTION
	31 = Closed centres
	32 = Open centres







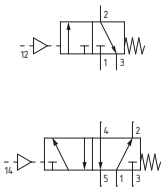
Weight 1765 g

Pneumatic - Spring

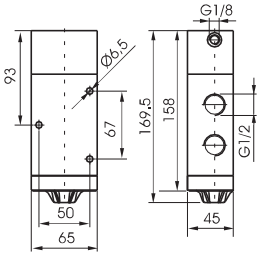
Coding: 212.Ⓣ.11.1

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +70
Flow rate at 6 bar with Δp=1 (Nl/min)	3500
Orifice size (mm)	15
Working ports size	G1/2"
Pilot ports size	G1/8"

Ⓣ	TYPE
	32 = 3 ways, 2 positions
	52 = 5 ways, 2 positions



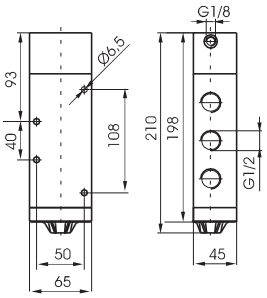
3/2 ways



Weight 1110 g
Minimum pilot pressure 2,5 bar

212.32.11.1

5/2 ways



Weight 1390 g
Minimum pilot pressure 2,5 bar

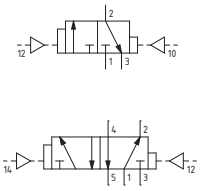
212.52.11.1

Pneumatic - Differential

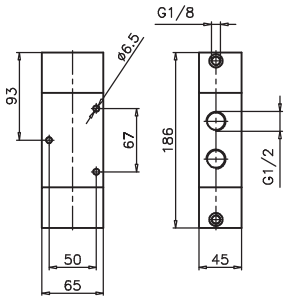
Coding: 212.Ⓣ.11.12

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +70
Flow rate at 6 bar with Δp=1 (Nl/min)	3500
Orifice size (mm)	15
Working ports size	G1/2"
Pilot ports size	G1/8"

Ⓣ	TYPE
	32 = 3 ways, 2 positions
	52 = 5 ways, 2 positions



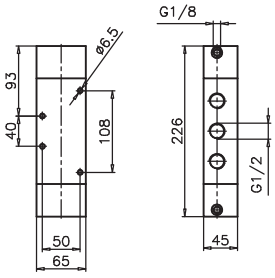
3/2 ways



Weight 1380 g
Minimum pilot pressure 2,5 bar

212.32.11.12

5/2 ways



Weight 1660 g
Minimum pilot pressure 2,5 bar

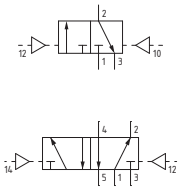
212.52.11.12

Pneumatic-Pneumatic

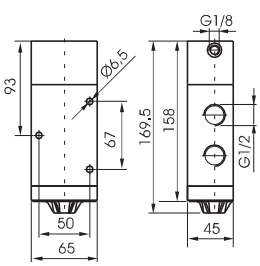
Coding: 212.Ⓣ.11.11

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +70
Flow rate at 6 bar with Δp=1 (Nl/min)	3500
Orifice size (mm)	15
Working ports size	G1/2"
Pilot ports size	G1/8"

Ⓣ	TYPE
	32 = 3 ways, 2 positions
	52 = 5 ways, 2 positions



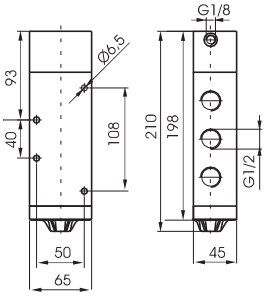
3/2 ways



Weight 1350 g
Minimum pilot pressure 2 bar

212.32.11.11

5/2 ways



Weight 1630 g
Minimum pilot pressure 2 bar

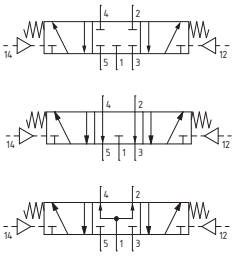
212.52.11.11

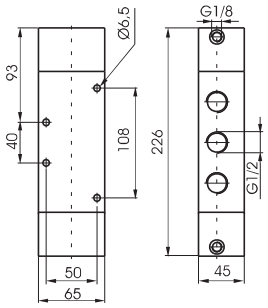
Pneumatic-Pneumatic 5/3

Coding: 212.53.Ⓕ.11.11

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +70
Flow rate at 6 bar with Δp=1 (Nl/min)	3000
Orifice size (mm)	15
Working ports size	G1/2"
Pilot ports size	G1/8"

Ⓕ	FUNCTION
	31 = Closed centres
	32 = Open centres
	33 = Pressured centres





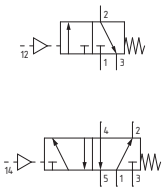
Weight 1650 g
Minimum pilot pressure 3 bar

Pneumatic - Spring

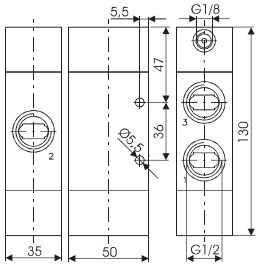
Coding: 212/2.Ⓣ.11.1

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +70
Flow rate at 6 bar with Δp=1 (Nl/min)	3600
Orifice size (mm)	15
Working ports size	G1/2"
Pilot ports size	G1/8"

	TYPE
Ⓣ	**32** = 3 ways, 2 positions
	52 = 5 ways, 2 positions



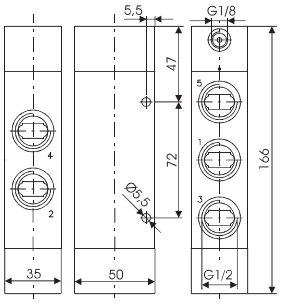
3/2 ways



Weight 524 g
Minimum pilot pressure 2,5 bar

212/2.32.11.1

5/2 ways



Weight 644 g
Minimum pilot pressure 2,5 bar

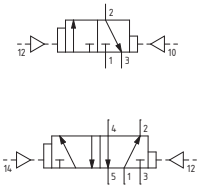
212/2.52.11.1

Pneumatic - Differential

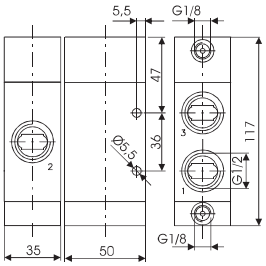
Coding: 212/2.Ⓣ.11.12

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +70
Flow rate at 6 bar with Δp=1 (Nl/min)	3600
Orifice size (mm)	15
Working ports size	G1/2"
Pilot ports size	G1/8"

	TYPE
Ⓣ	**32** = 3 ways, 2 positions
	52 = 5 ways, 2 positions



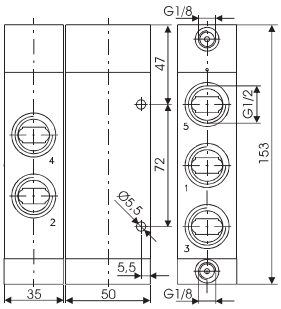
3/2 ways



Weight 464 g
Minimum pilot pressure 2,5 bar

212/2.32.11.12

5/2 ways



Weight 586 g
Minimum pilot pressure 2,5 bar

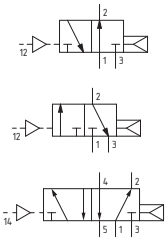
212/2.52.11.12

Pneumatic-Differential (Self feeding)

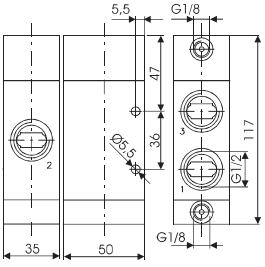
Coding: 212/2.Ⓣ.11.12/Ⓕ

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +70
Flow rate at 6 bar with Δp=1 (Nl/min)	3600
Orifice size (mm)	15
Working ports size	G1/2"
Pilot ports size	G1/8"

	TYPE
Ⓣ	**32** = 3 ways, 2 positions
	52 = 5 ways, 2 positions
Ⓕ	FUNCTION
	1.C = Normally closed (only for 3 ways)
	1.A = Normally open (only for 3 ways)
	1 = Self feeding (only for 5 ways)



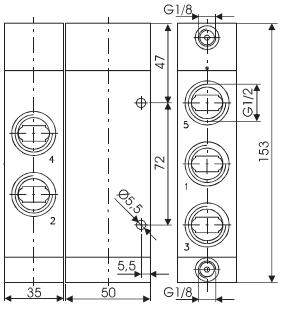
3/2 ways



Weight 466 g
Minimum pilot pressure 2,5 bar

212/2.32.11.12/Ⓕ

5/2 ways



Weight 588 g
Minimum pilot pressure 2,5 bar

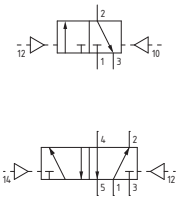
212/2.52.11.12/1

Pneumatic-Pneumatic

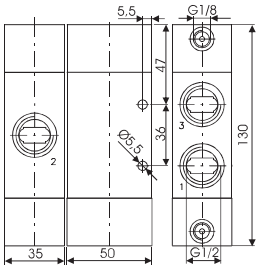
Coding: 212/2.Ⓣ.11.11

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +70
Flow rate at 6 bar with Δp=1 (Nl/min)	3600
Orifice size (mm)	15
Working ports size	G1/2"
Pilot ports size	G1/8"

Ⓣ	TYPE
	32 = 3 ways, 2 positions
	52 = 5 ways, 2 positions



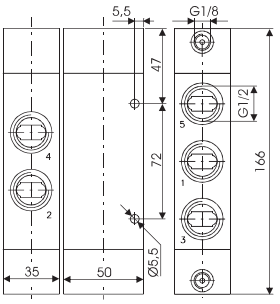
3/2 ways



Weight 518 g
Minimum pilot pressure 2,5 bar

212/2.32.11.11

5/2 ways



Weight 640 g
Minimum pilot pressure 2,5 bar

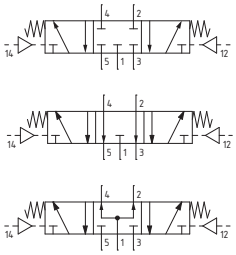
212/2.52.11.11

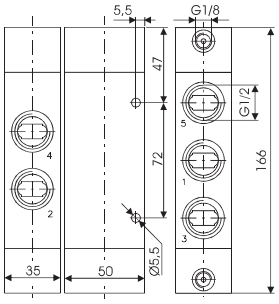
Pneumatic-Pneumatic 5/3

Coding: 212/2.53.Ⓕ.11.11

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +70
Flow rate at 6 bar with Δp=1 (Nl/min)	3300
Orifice size (mm)	15
Working ports size	G1/2"
Pilot ports size	G1/8"

Ⓕ	FUNCTION
	31 = Closed centres
	32 = Open centres
	33 = Pressured centres





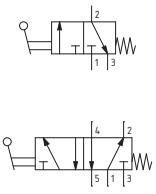
Weight 684 g
Minimum pilot pressure 3 bar

Lever lateral - Spring

Coding: 211.Ⓣ.9.1

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +70
Flow rate at 6 bar with Δp=1 (Nl/min)	6500
Orifice size (mm)	20
Working ports size	G1"

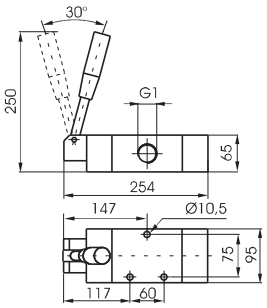
Ⓣ	TYPE
	32 = 3 ways, 2 positions
	52 = 5 ways, 2 positions



3/2 ways

Weight 4300 g

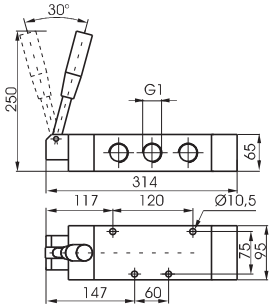
211.32.9.1



5/2 ways

Weight 4900 g

211.52.9.1

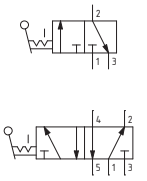


Lever lateral 2 positions

Coding: 211.Ⓣ.9

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +70
Flow rate at 6 bar with Δp=1 (Nl/min)	6500
Orifice size (mm)	20
Working ports size	G1"

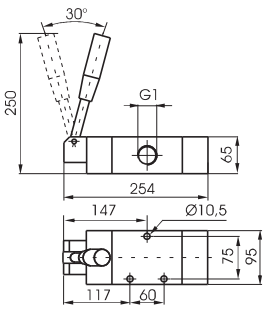
Ⓣ	TYPE
	32 = 3 ways, 2 positions
	52 = 5 ways, 2 positions



3/2 ways

Weight 4300 g

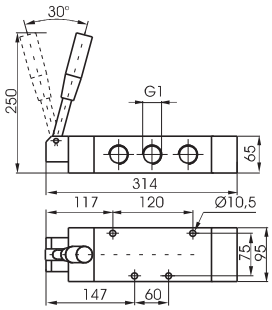
211.32.9



5/2 ways

Weight 4900 g

211.52.9



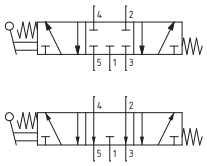
Lever lateral spring centre 3 positions

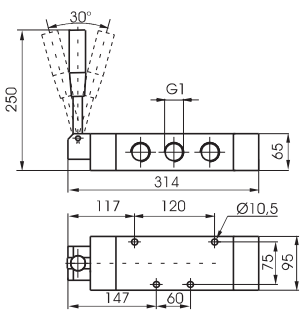
Coding: 211.53.Ⓕ.9.1

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +70
Flow rate at 6 bar with Δp=1 (Nl/min)	6500
Orifice size (mm)	20
Working ports size	G1"

Ⓕ	FUNCTION
	31 = Closed centres
	32 = Open centres

Weight 5000 g



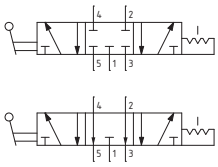


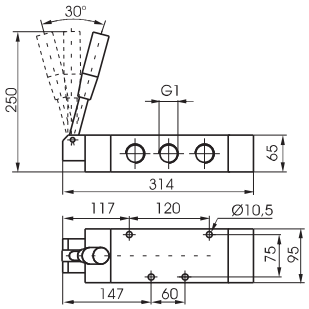
Lever lateral 3 positions detent

Coding: 211.53.Ⓕ.9

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +70
Flow rate at 6 bar with Δp=1 (Nl/min)	6500
Orifice size (mm)	20
Working ports size	G1"

Ⓕ	FUNCTION
	31 = Closed centres
	32 = Open centres





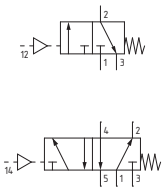
Weight 5000 g

Pneumatic - Spring

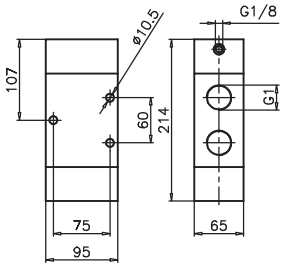
Coding: 211.Ⓣ.11.1

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +70
Flow rate at 6 bar with Δp=1 (Nl/min)	6500
Orifice size (mm)	20
Working ports size	G1"
Pilot ports size	G1/8"

Ⓣ	TYPE
	32 = 3 ways, 2 positions
	52 = 5 ways, 2 positions



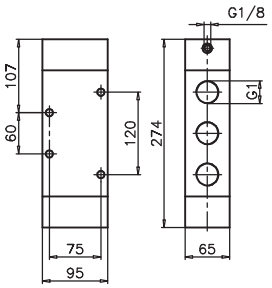
3/2 ways



Weight 3330 g
Minimum pilot pressure 2,5 bar

211.32.11.1

5/2 ways



Weight 4200 g
Minimum pilot pressure 2,5 bar

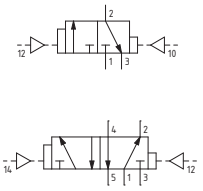
211.52.11.1

Pneumatic - Differential

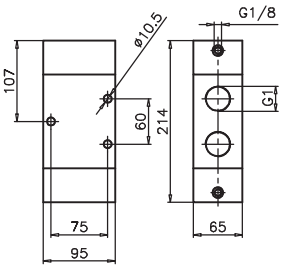
Coding: 211.Ⓣ.11.12

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +70
Flow rate at 6 bar with Δp=1 (Nl/min)	6500
Orifice size (mm)	20
Working ports size	G1"
Pilot ports size	G1/8"

Ⓣ	TYPE
	32 = 3 ways, 2 positions
	52 = 5 ways, 2 positions



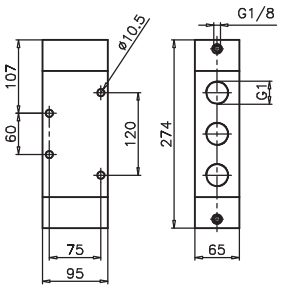
3/2 ways



Weight 3330 g
Minimum pilot pressure 2,5 bar

211.32.11.12

5/2 ways



Weight 4200 g
Minimum pilot pressure 2,5 bar

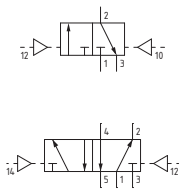
211.52.11.12

Pneumatic-Pneumatic

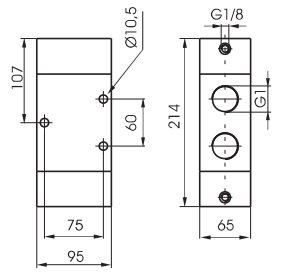
Coding: 211.Ⓣ.11.11

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +70
Flow rate at 6 bar with Δp=1 (Nl/min)	6500
Orifice size (mm)	20
Working ports size	G1"
Pilot ports size	G1/8"

Ⓣ	TYPE
	32 = 3 ways, 2 positions
	52 = 5 ways, 2 positions



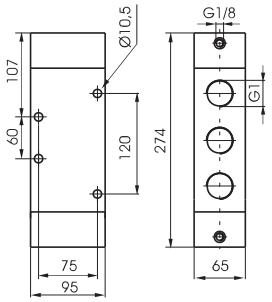
3/2 ways



Weight 3330 g
Minimum pilot pressure 2 bar

211.32.11.11

5/2 ways



Weight 4200 g
Minimum pilot pressure 2 bar

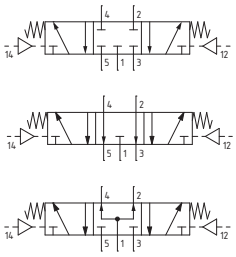
211.52.11.11

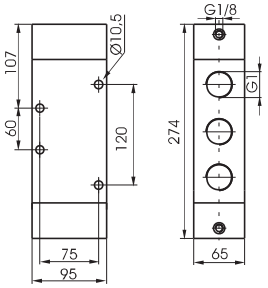
Pneumatic-Pneumatic 5/3

Coding: 211.53.Ⓕ.11.11

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	-5 ... +70
Flow rate at 6 bar with Δp=1 (Nl/min)	6500
Orifice size (mm)	20
Working ports size	G1"
Pilot ports size	G1/8"

Ⓕ	FUNCTION
	31 = Closed centres
	32 = Open centres
	33 = Pressured centres





Weight 4200 g
Minimum pilot pressure 3 bar