Series 200

General

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
Operators	Aluminium Technopolymer
Seals	NBR PUR for 212/2
Spacer	Technopolymer Aluminium for G1" (211)
Spools	Steel Aluminium, for 212/2
Springs	Spring steel
Pistons	Technopolymer, for 228 pneumatic command valves Aluminium, for 224, 212, 212/2 e 211 pneumatic command valves

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 MAGNA GC 32 (Castrol).

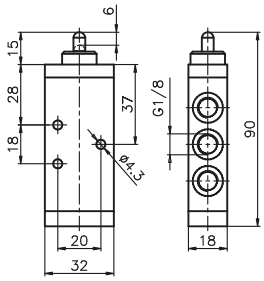
Tappet - Spring

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"

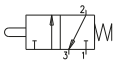
	TYPE
Ⓣ	**32** = 3 ways
	52 = 5 ways

3 ways

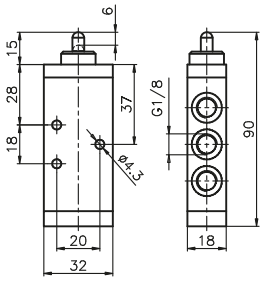


Weight 85 g
Operating force 33 N

228.32.0.1

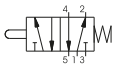


5 ways



Weight 105 g
Operating force 33 N

228.52.0.1



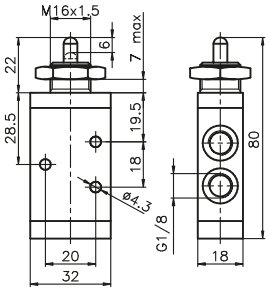
Tappet panel - Spring

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"

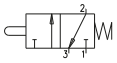
	TYPE
Ⓣ	**32** = 3 ways
	52 = 5 ways

3 ways

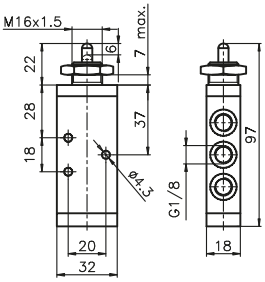


Weight 102 g
Operating force 33 N

228.32.1.1

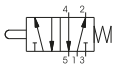


5 ways



Weight 122 g
Operating force 33 N

228.52.1.1



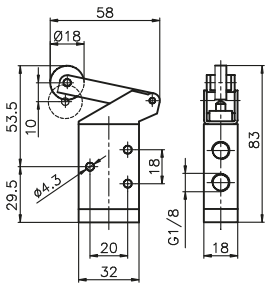
Lever roller - Spring

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"

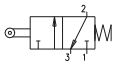
	TYPE
Ⓣ	**32** = 3 ways
	52 = 5 ways
	VERSION
Ⓥ	**1** = Plastic roller
	1/2 = Metal roller

3 ways

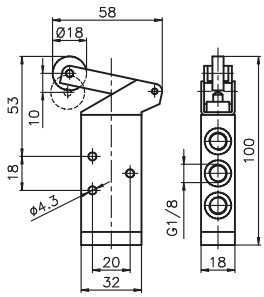


Weight 115 g
Operating force 15 N

228.32.2.Ⓥ

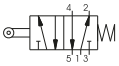


5 ways



Weight 135 g
Operating force 15 N

228.52.2.Ⓥ

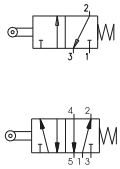


Lever roller ball bearing - Spring

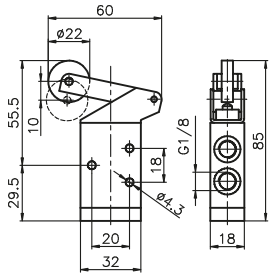
Coding: 228.Ⓣ.2.1/1

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
	52 = 5 ways



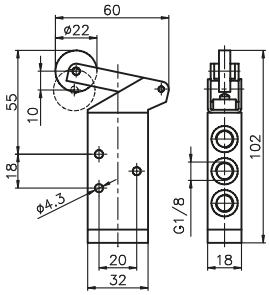
3 ways



Weight 130 g
Operating force 15 N

228.32.2.1/1

5 ways



Weight 150 g
Operating force 15 N

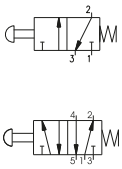
228.52.2.1/1

Lever button - Spring

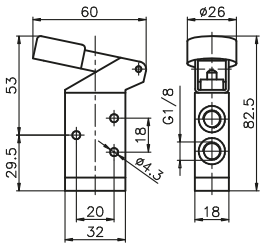
Coding: 228.Ⓣ.2.6/Ⓒ

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
	52 = 5 ways
Ⓒ	BUTTON COLOR
	1 = Red
	2 = Black
	3 = Green



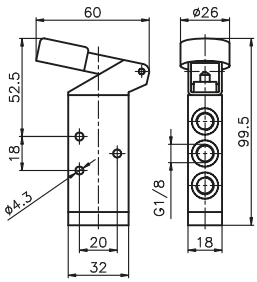
3 ways



Weight 120 g
Operating force 15 N

228.32.2.6/Ⓒ

5 ways



Weight 120 g
Operating force 15 N

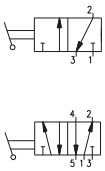
228.52.2.6/Ⓒ

Switch lateral 2 positions

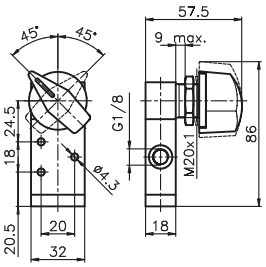
Coding: 228.Ⓣ.27

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
	52 = 5 ways



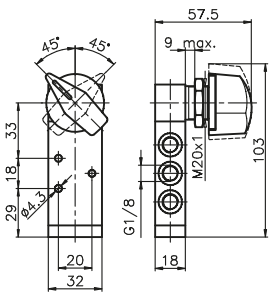
3 ways



Weight 190 g

228.32.27

5 ways



Weight 210 g

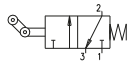
228.52.27

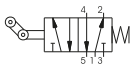
Lever roller unidirectional - Spring

Coding: 228.Ⓣ.3.Ⓥ

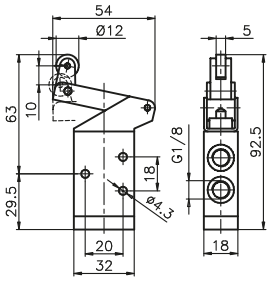
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +70
Flow rate at 6 bar with Δp=1 (Nl/min)	540
Orifice size (mm)	6
Working ports size	G1/8"

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





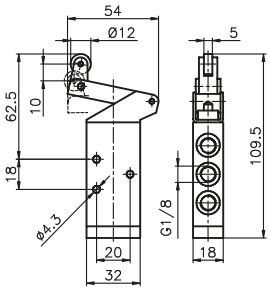
3 ways



Weight 110 g

228.32.3.Ⓥ

5 ways



Weight 130 g

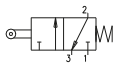
228.52.3.Ⓥ

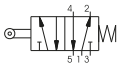
Lever roller lateral bidirectional - Spring

Coding: 228.Ⓣ.4.1

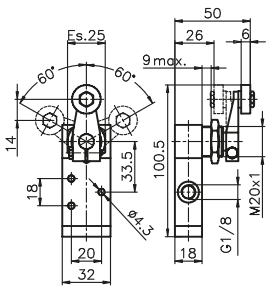
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +70
Flow rate at 6 bar with Δp=1 (Nl/min)	540
Orifice size (mm)	6
Working ports size	G1/8"

Ⓣ	TYPE
	32 = 3 ways
	52 = 5 ways





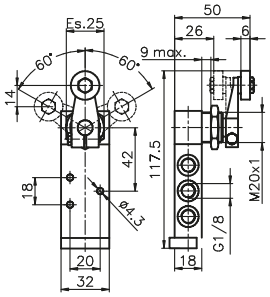
3 ways



Weight 180 g

228.32.4.1

5 ways



Weight 200 g

228.52.4.1

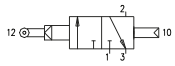
Lever sensitive - differential

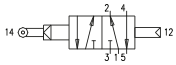
Coding: 228.Ⓣ.4.13

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"

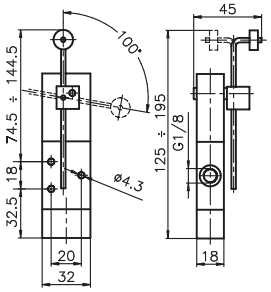
Ⓣ	TYPE
	32 = 3 ways
	52 = 5 ways

Minimum rotation angle 11°





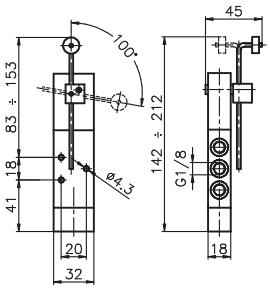
3 ways



Weight 200 g
Minimum rotation angle 11°
Minimum working pressure 2,5 bar

228.32.4.13

5 ways



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

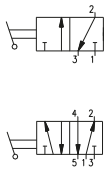
228.52.4.13

Lever panel Ø30 - 2 positions

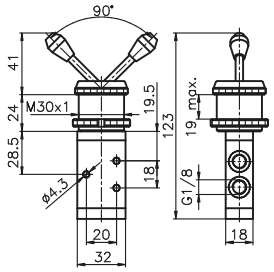
Coding: 228.Ⓣ.5/Ⓒ

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
	52 = 5 ways
Ⓒ	LEVER COLOR
	1 = Red
	2 = Black
	3 = Green



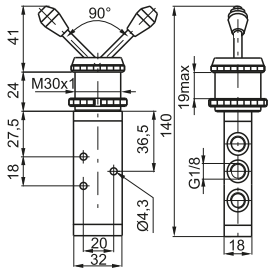
3 ways



Weight 198 g

228.32.5/Ⓒ

5 ways



Weight 218 g

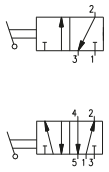
228.52.5/Ⓒ

Frontal lever - 2 positions

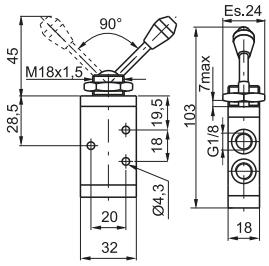
Coding: 228.Ⓣ.55/Ⓒ

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
	52 = 5 ways
Ⓒ	LEVER COLOR
	1 = Red
	2 = Black
	3 = Green



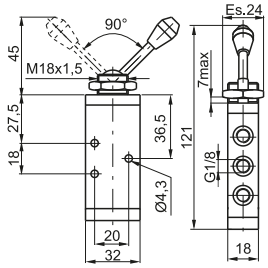
3 ways



Weight 115 g

228.32.55/Ⓒ

5 ways



Weight 135 g

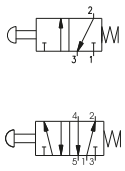
228.52.55/Ⓒ

Push button Ø 30 - spring

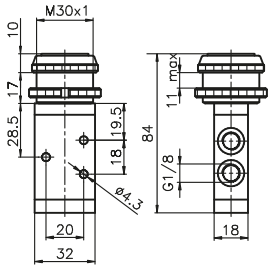
Coding: 228.Ⓣ.6.1/Ⓒ

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
	52 = 5 ways
Ⓒ	BUTTON COLOR
	1 = Red
	2 = Black
	3 = Green



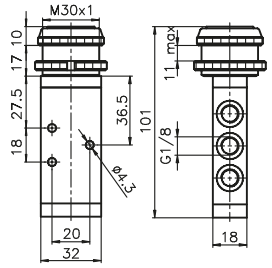
3 ways



Weight 155 g
Operating force 33 N

228.32.6.1/Ⓒ

5 ways



Weight 175 g
Operating force 33 N

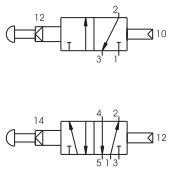
228.52.6.1/Ⓒ

Sensitive push button Ø30 - differential

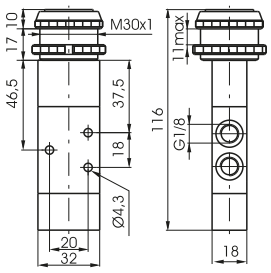
Coding: 228.Ⓣ.6.13/Ⓒ

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
	52 = 5 ways
Ⓒ	BUTTON COLOR
	1 = Red
	2 = Black
	3 = Green



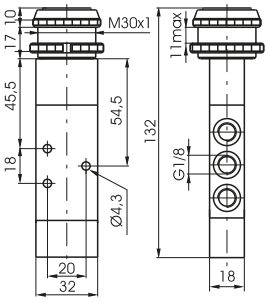
3 ways



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

228.32.6.13/Ⓒ

5 ways



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

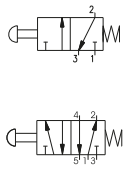
228.52.6.13/Ⓒ

Push button - Spring

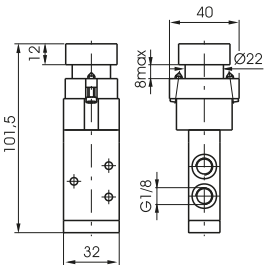
Coding: 228.Ⓣ.6.22/Ⓒ

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
	52 = 5 ways
Ⓒ	BUTTON COLOR
	1 = Red
	2 = Black
	3 = Green
	4 = Yellow



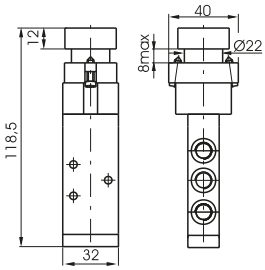
3 ways



Weight 225 g
Operating force 33 N

228.32.6.22/Ⓒ

5 ways



Weight 245 g
Operating force 33 N

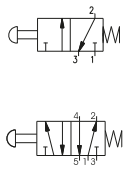
228.52.6.22/Ⓒ

Raised push button Ø22 - Spring

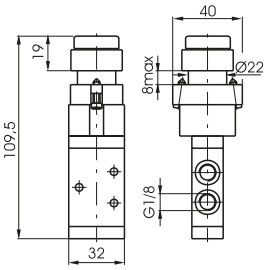
Coding: 228.Ⓣ.6.23/Ⓒ

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
	52 = 5 ways
Ⓒ	BUTTON COLOR
	1 = Red
	2 = Black
	3 = Green
	4 = Yellow



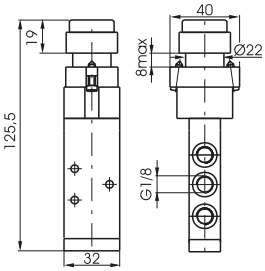
3 ways



Weight 230 g
Operating force 33 N

228.32.6.23/Ⓒ

5 ways



Weight 250 g
Operating force 33 N

228.52.6.23/Ⓒ

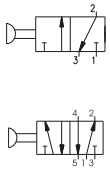
Push button Ø22 - 2 positions

Coding: 228.Ⓣ.6.25

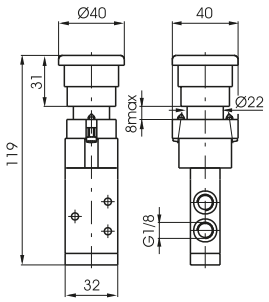
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +70
Flow rate at 6 bar with Δp=1 (Nl/min)	540
Orifice size (mm)	6
Working ports size	G1/8"

Ⓣ	TYPE
	32 = 3 ways
	52 = 5 ways

Emergency - Rotate to unlock



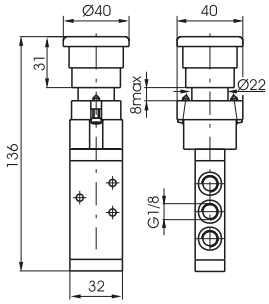
3 ways



Weight 235 g
Operating force 33 N

228.32.6.25

5 ways



Weight 235 g
Operating force 33 N

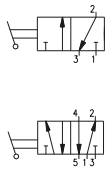
228.52.6.25

Switch 2 positions

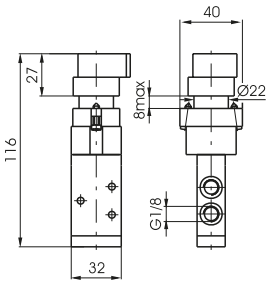
Coding: 228.Ⓣ.6.27

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
	52 = 5 ways



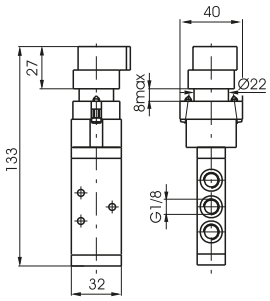
3 ways



Weight 230 g

228.32.6.27

5 ways



Weight 250 g

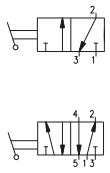
228.52.6.27

Key switch 2 positions

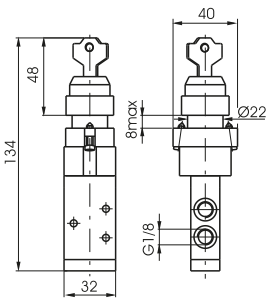
Coding: 228.Ⓣ.6.28

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
	52 = 5 ways



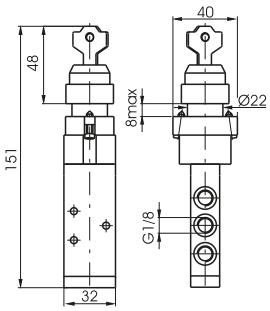
3 ways



Weight 230 g

228.32.6.28

5 ways



Weight 250 g

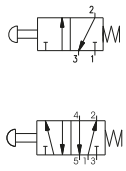
228.52.6.28

Palm push button Ø30 2 positions

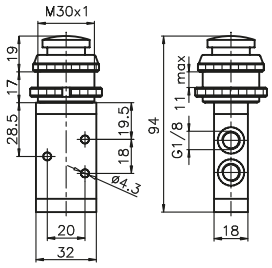
Coding: 228.Ⓣ.7.1/Ⓒ

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
	52 = 5 ways
Ⓒ	BUTTON COLOR
	1 = Red
	2 = Black
	3 = Green



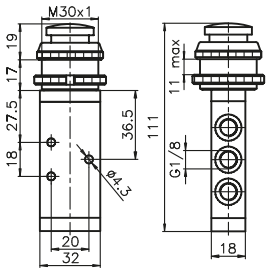
3 ways



Weight 148 g

228.32.7.1/Ⓒ

5 ways



Weight 168 g

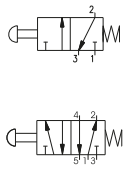
228.52.7.1/Ⓒ

Push button - Spring

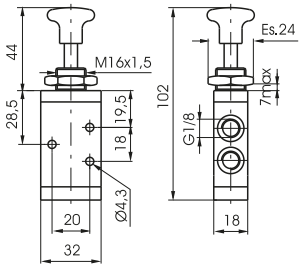
Coding: 228.Ⓣ.8.1/Ⓒ

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
	52 = 5 ways
Ⓒ	BUTTON COLOR
	1 = Red
	2 = Black
	3 = Green



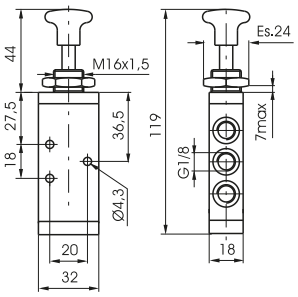
3 ways



Weight 120 g

228.32.8.1/Ⓒ

5 ways



Weight 140 g

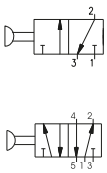
228.52.8.1/Ⓒ

Push button 2 positions

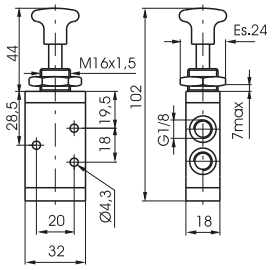
Coding: 228.Ⓣ.8/Ⓒ

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
	52 = 5 ways
Ⓒ	BUTTON COLOR
	1 = Red
	2 = Black
	3 = Green



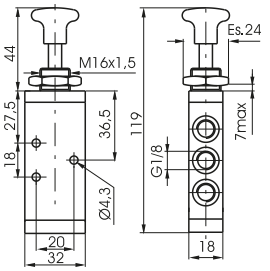
3 ways



Weight 120 g

228.32.8/Ⓒ

5 ways



Weight 140 g

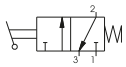
228.52.8/Ⓒ

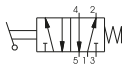
Lever lateral - Spring

Coding: 228.Ⓣ.9.1/Ⓒ

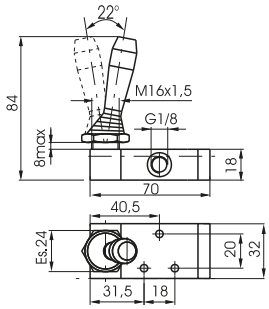
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +70
Flow rate at 6 bar with Δp=1 (Nl/min)	540
Orifice size (mm)	6
Working ports size	G1/8"

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





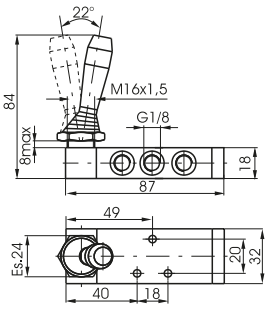
3 ways



Weight 140 g

228.32.9.1/Ⓒ

5 ways



Weight 160 g

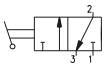
228.52.9.1/Ⓒ

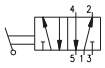
Lever lateral 2 positions

Coding: 228.Ⓣ.9/Ⓒ

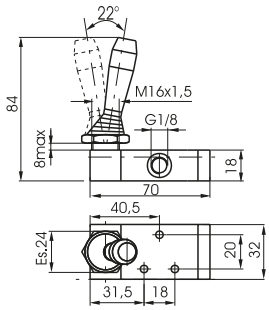
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +70
Flow rate at 6 bar with Δp=1 (Nl/min)	540
Orifice size (mm)	6
Working ports size	G1/8"

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





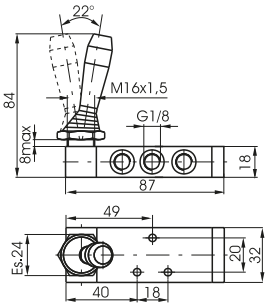
3 ways



Weight 140 g

228.32.9/Ⓒ

5 ways



Weight 160 g

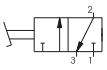
228.52.9/Ⓒ

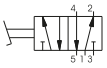
Pedal aluminium 2 positions

Coding: 228.Ⓣ.10

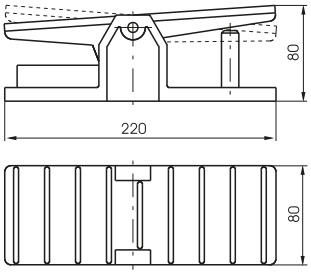
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +70
Flow rate at 6 bar with Δp=1 (Nl/min)	540
Orifice size (mm)	6
Working ports size	G1/8"

Ⓣ	TYPE
	32 = 3 ways
	52 = 5 ways





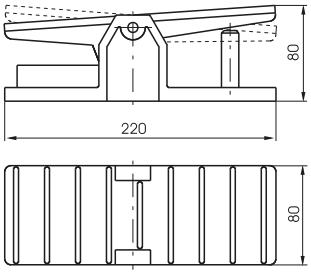
3 ways



Weight 790 g

228.32.10

5 ways



Weight 810 g

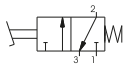
228.52.10

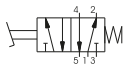
Pedal aluminium - Spring

Coding: 228.Ⓣ.10.1

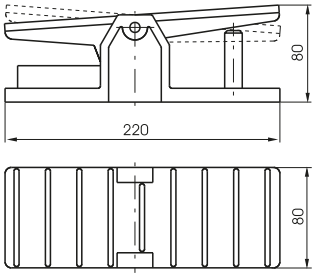
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +70
Flow rate at 6 bar with Δp=1 (Nl/min)	540
Orifice size (mm)	6
Working ports size	G1/8"

	TYPE
Ⓣ	**32** = 3 ways
	52 = 5 ways





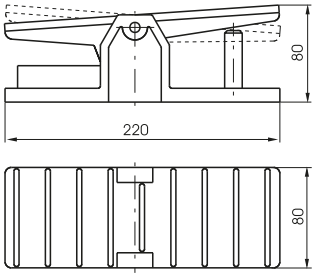
3 ways



Weight 790 g

228.32.10.1

5 ways



Weight 810 g

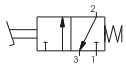
228.52.10.1

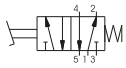
Pedal protected - Spring

Coding: 228.Ⓣ.10.Ⓥ

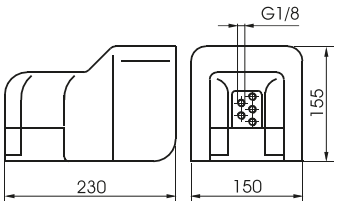
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +70
Flow rate at 6 bar with Δp=1 (Nl/min)	540
Orifice size (mm)	6
Working ports size	G1/8"

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





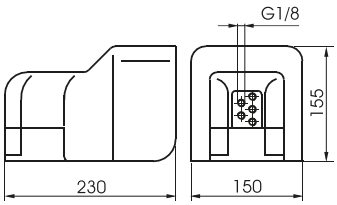
3 ways



Weight 1120 g

228.32.10.Ⓥ

5 ways



Weight 1120 g

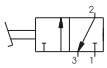
228.52.10.Ⓥ

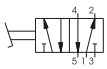
Pedal protected 2 positions

Coding: 228.Ⓣ.10/1

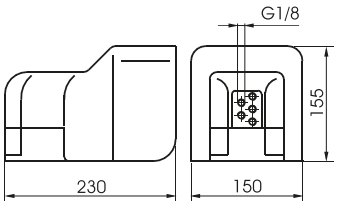
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +70
Flow rate at 6 bar with Δp=1 (Nl/min)	540
Orifice size (mm)	6
Working ports size	G1/8"

	TYPE
Ⓣ	**32** = 3 ways
	52 = 5 ways





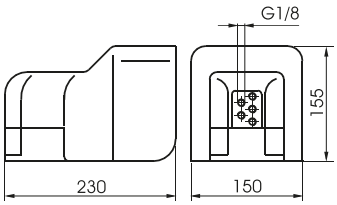
3 ways



Weight 1120 g

228.32.10/1

5 ways



Weight 1120 g

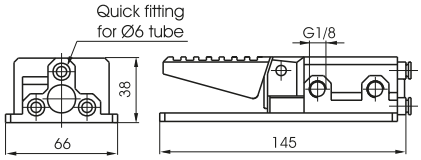
228.52.10/1

Pedal plastic miniaturized - Spring

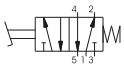
Coding: 228.52.10.Ⓕ

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

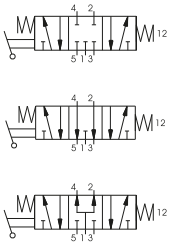


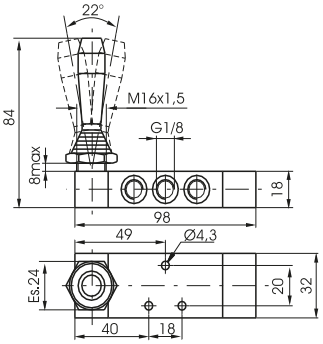
Lever lateral spring centre 3 positions

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





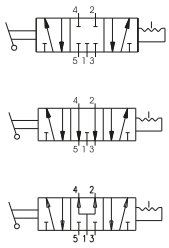
Weight 190 g

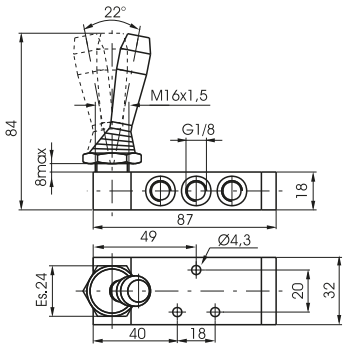
Lever lateral 3 positions detent

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

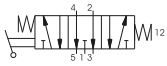
Lever central (spring 3 pos.) Operator, Levar, Spole in Technopolymer

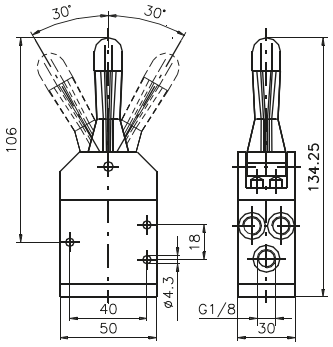
Coding: 228.53.32.99P/Ⓒ

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





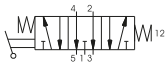
Lever central (spring 3 pos.) Levar in Technopolymer

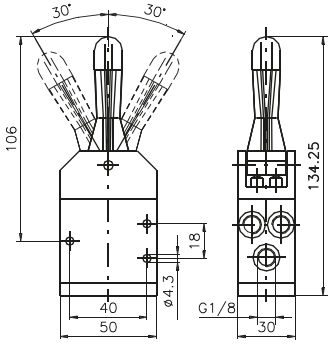
Coding: 228.53.32.99/Ⓒ

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





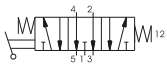
Lever central Metal (spring 3 pos.) One position stable

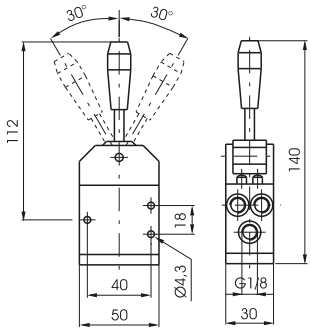
Coding: 228.53.32.99/Ⓒ.S

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



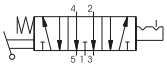


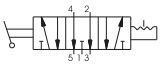
Lever central Metal

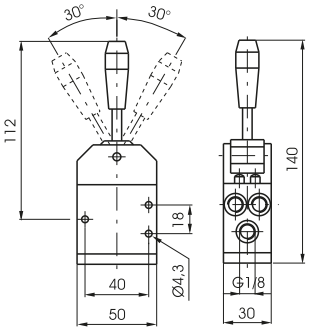
Coding: 228.53.32.99.Ⓕ/Ⓒ

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 pos. stable
Ⓒ	LEVER COLOR
	1 = Red
	2 = Black







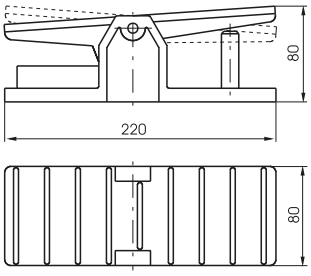
Weight 140 g

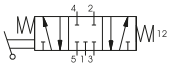
Pedal - Spring 3 positions

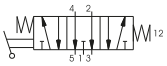
Coding: 228.53.Ⓕ.10.1

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







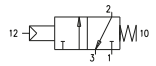
Weight 810 g

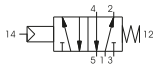
Pneumatic - Spring

Coding: 228.Ⓣ.11.1

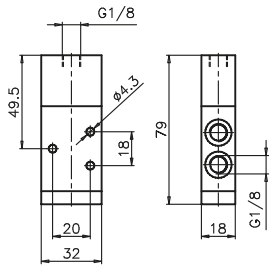
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +70
Flow rate at 6 bar with Δp=1 (Nl/min)	540
Orifice size (mm)	6
Working ports size	G1/8"
Pilot ports size	G1/8"

Ⓣ	TYPE
	32 = 3 ways
	52 = 5 ways





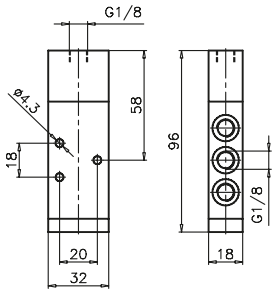
3 ways



Weight 110 g
Minimum piloting pressure 2,5 bar

228.32.11.1

5 ways



Weight 130 g
Minimum piloting pressure 2,5 bar

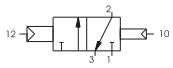
228.52.11.1

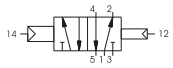
Pneumatic - Differential external

Coding: 228.Ⓣ.11.12

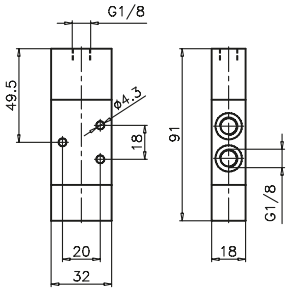
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +70
Flow rate at 6 bar with Δp=1 (Nl/min)	540
Orifice size (mm)	6
Working ports size	G1/8"
Pilot ports size	G1/8"

Ⓣ	TYPE
	32 = 3 ways
	52 = 5 ways





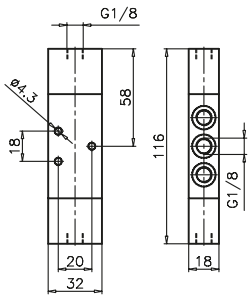
3 ways



Weight 140 g
Minimum piloting pressure 2,5 bar

228.32.11.12

5 ways



Weight 160 g
Minimum piloting pressure 2,5 bar

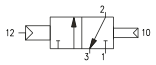
228.52.11.12

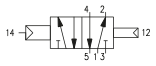
Pneumatic - Differential self aligned

Coding: 228.Ⓣ.11.12/1

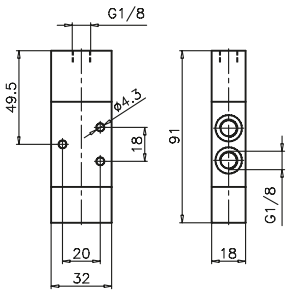
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +70
Flow rate at 6 bar with Δp=1 (Nl/min)	540
Orifice size (mm)	6
Working ports size	G1/8"
Pilot ports size	G1/8"

Ⓣ	TYPE
	32 = 3 ways
	52 = 5 ways





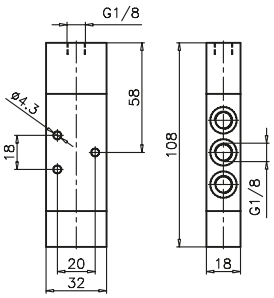
3 ways



Weight 130 g
Minimum piloting pressure 2,5 bar

228.32.11.12/1

5 ways



Weight 150 g
Minimum piloting pressure 2,5 bar

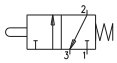
228.52.11.12/1

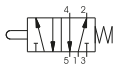
Tappet panel - Spring

Coding: 224.Ⓣ.1.1

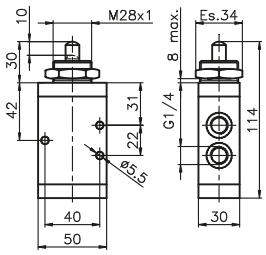
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +70
Flow rate at 6 bar with Δp=1 (Nl/min)	1360
Orifice size (mm)	8
Working ports size	G1/4"

Ⓣ	TYPE
	32 = 3 ways
	52 = 5 ways





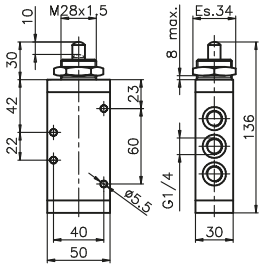
3 ways



Weight 370 g
Operating force 71,5 N

224.32.1.1

5 ways



Weight 455 g
Operating force 71,5 N

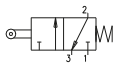
224.52.1.1

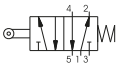
Lever roller - Spring

Coding: 224.Ⓣ.2.1

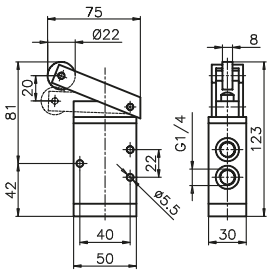
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +70
Flow rate at 6 bar with Δp=1 (Nl/min)	1360
Orifice size (mm)	8
Working ports size	G1/4"

Ⓣ	TYPE
	32 = 3 ways
	52 = 5 ways





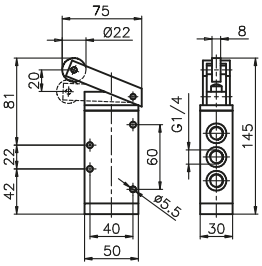
3 ways



Weight 510 g
Operating force 35 N

224.32.2.1

5 ways



Weight 595 g
Operating force 35 N

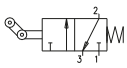
224.52.2.1

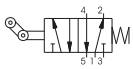
Lever roller unidirectional - Spring

Coding: 224.Ⓣ.3.1

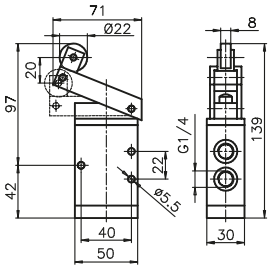
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +70
Flow rate at 6 bar with Δp=1 (Nl/min)	1360
Orifice size (mm)	8
Working ports size	G1/4"

Ⓣ	TYPE
	32 = 3 ways
	52 = 5 ways





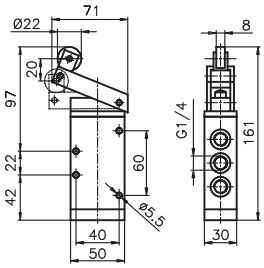
3 ways



Weight 525 g
Operating force 35 N

224.32.3.1

5 ways



Weight 610 g
Operating force 35 N

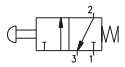
224.52.3.1

Push button - Spring

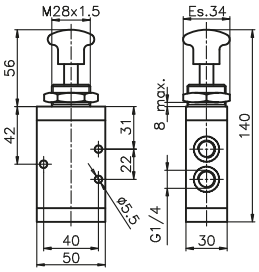
Coding: 224.Ⓣ.8.1

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
	52 = 5 ways



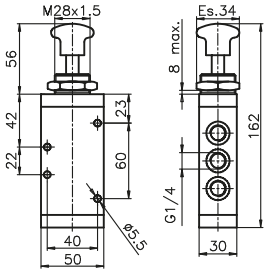
3 ways



Weight 395 g
Operating force 71,5 N

224.32.8.1

5 ways



Weight 480 g
Operating force 71,5 N

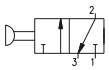
224.52.8.1

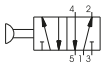
Push button 2 positions

Coding: 224.Ⓣ.8

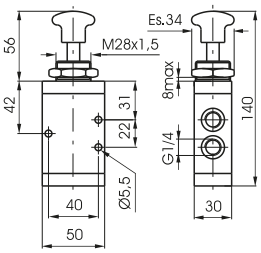
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +70
Flow rate at 6 bar with Δp=1 (Nl/min)	1360
Orifice size (mm)	8
Working ports size	G1/4"

	TYPE
Ⓣ	**32** = 3 ways
	52 = 5 ways





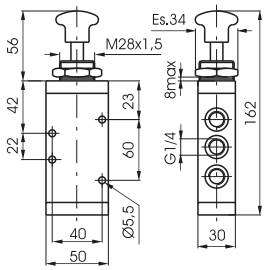
3 ways



Weight 385 g
Operating force 13 N

224.32.8

5 ways



Weight 470 g
Operating force 13 N

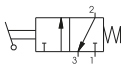
224.52.8

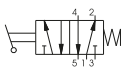
Lever lateral - Spring

Coding: 224.Ⓣ.9.1/Ⓒ

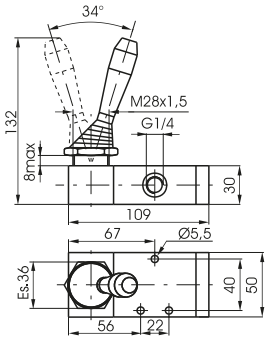
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +70
Flow rate at 6 bar with Δp=1 (Nl/min)	1360
Orifice size (mm)	8
Working ports size	G1/4"

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





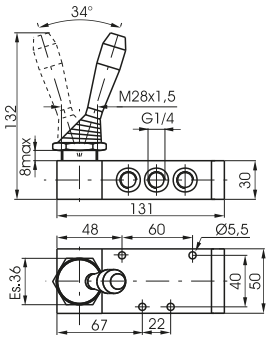
3 ways



Weight 520 g

224.32.9.1/Ⓒ

5 ways



Weight 605 g

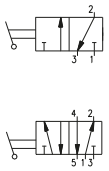
224.52.9.1/Ⓒ

Lever lateral 2 positions

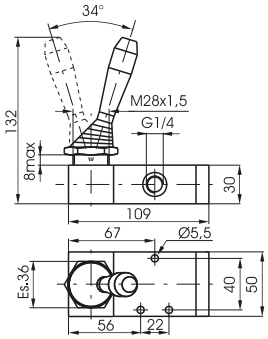
Coding: 224.Ⓣ.9/Ⓒ

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
	52 = 5 ways
Ⓒ	LEVER COLOR
	1 = Red
	2 = Black
	3 = Green



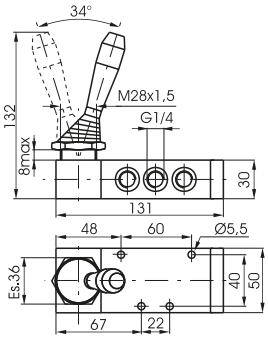
3 ways



Weight 510 g

224.32.9/Ⓒ

5 ways



Weight 595 g

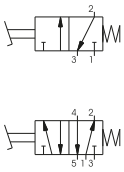
224.52.9/Ⓒ

Pedal aluminium - Spring

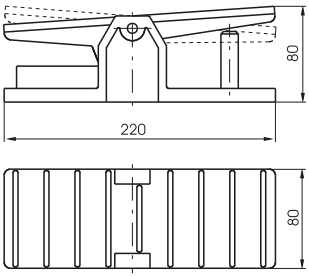
Coding: 224.Ⓣ.10.1

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
	52 = 5 ways



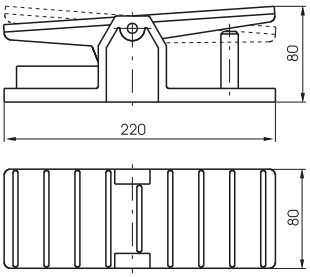
3 ways



Weight 1070 g

224.32.10.1

5 ways



Weight 1155 g

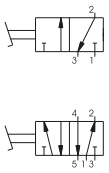
224.52.10.1

Pedal aluminium 2 positions

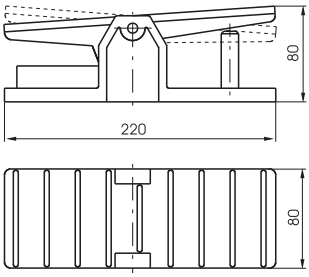
Coding: 224.Ⓣ.10

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
	52 = 5 ways



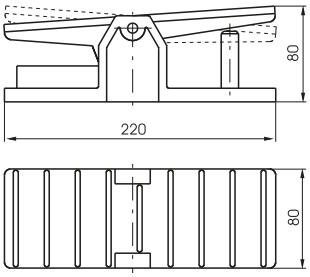
3 ways



Weight 1060 g

224.32.10

5 ways



Weight 1145 g

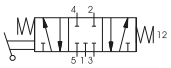
224.52.10

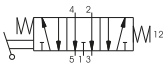
Lateral Lever spring - 3 positions

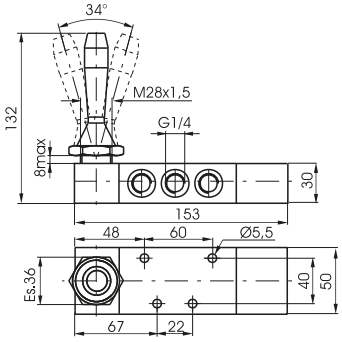
Coding: 224.53.Ⓕ.9.1/Ⓒ

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







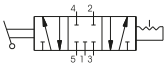
Weight 745 g

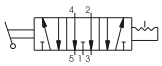
Lever lateral 3 positions detent

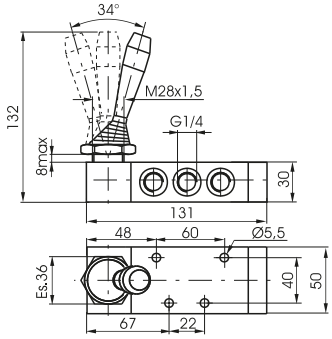
Coding: 224.53.Ⓕ.9/Ⓒ

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





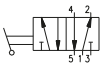


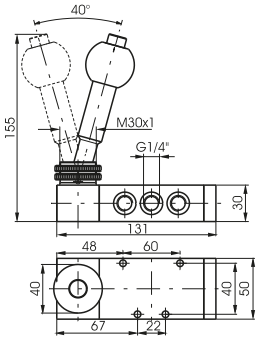
Weight 605 g

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

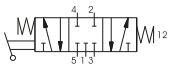
Lever lateral with locking device - Spring 3 positions

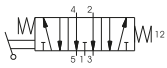
Coding: 224.53.Ⓕ.9.2

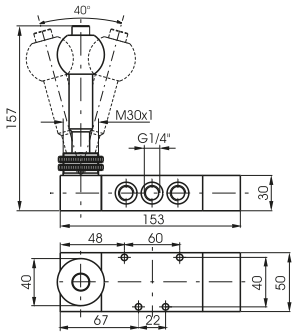
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +70
Flow rate at 6 bar with Δp=1 (Nl/min)	1020
Orifice size (mm)	8
Working ports size	G1/4"

Ⓕ	FUNCTION
	31 = Closed centres
	32 = Open centres

Weight 965 g







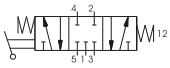
Pedal - Spring 3 positions

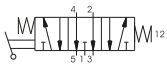
Coding: 224.53.Ⓕ.10.1

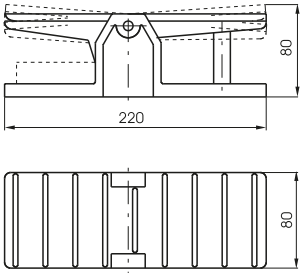
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +70
Flow rate at 6 bar with Δp=1 (Nl/min)	1280
Orifice size (mm)	8
Working ports size	G1/4"

Ⓕ	FUNCTION
	31 = Closed centres
	32 = Open centres

Weight 1285 g







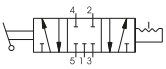
Pedal 3 positions

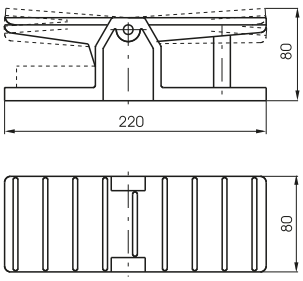
Coding: 224.53.Ⓕ.10

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



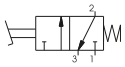


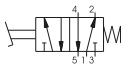
Pedal protected 2 positions

Coding: 214.Ⓣ.10/1

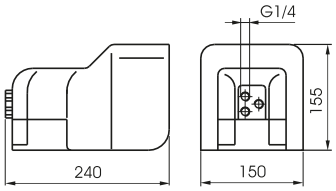
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +70
Flow rate at 6 bar with Δp=1 (Nl/min)	1360
Orifice size (mm)	8
Working ports size	G1/4"

Ⓣ	TYPE
	32 = 3 ways
	52 = 5 ways





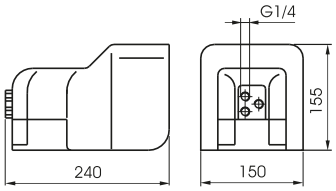
3 ways



Weight 1730 g

214.32.10.Ⓥ

5 ways



Weight 1730 g

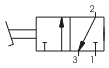
214.52.10.Ⓥ

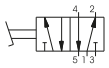
Pedal protected - Spring

Coding: 214.Ⓣ.10.Ⓥ

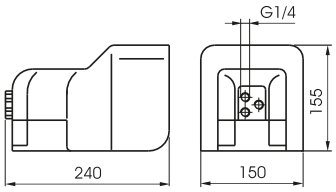
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +70
Flow rate at 6 bar with Δp=1 (Nl/min)	1360
Orifice size (mm)	8
Working ports size	G1/4"

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





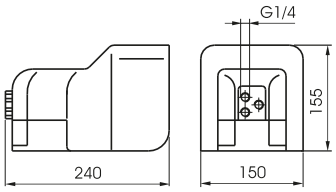
3 ways



Weight 1730 g

214.32.10/1

5 ways



Weight 1730 g

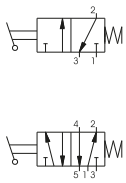
214.52.10/1

Lever lateral - Spring

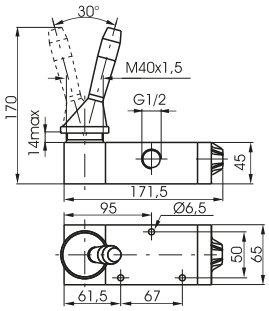
Coding: 212.Ⓣ.9.1

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
	52 = 5 ways



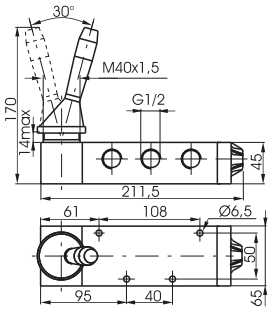
3 ways



Weight 1480 g

212.32.9.1

5 ways



Weight 1765 g

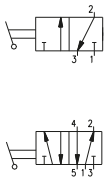
212.52.9.1

Lever lateral 2 positions

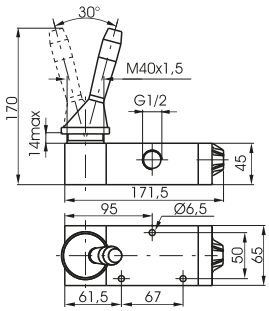
Coding: 212.Ⓣ.9

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
	52 = 5 ways



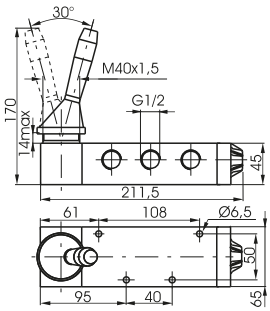
3 ways



Weight 1460 g

212.32.9

5 ways



Weight 1745 g

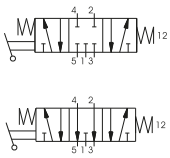
212.52.9

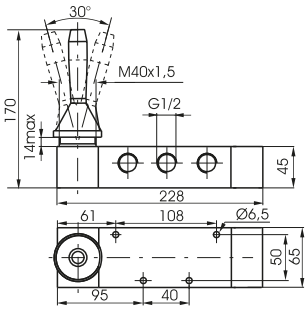
Lever lateral spring centre 3 positions

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





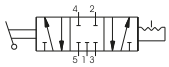
Weight 2100 g

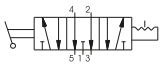
Lever lateral 3 positions detent

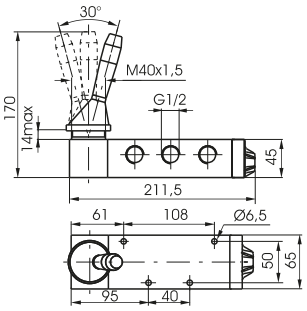
Coding: 212.53.Ⓕ.9

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







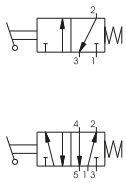
Weight 1765 g

Lever lateral - Spring

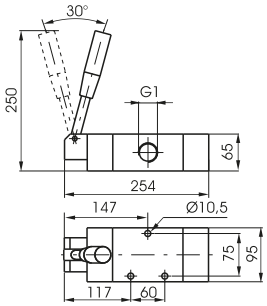
Coding: 211.Ⓣ.9.1

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
	52 = 5 ways



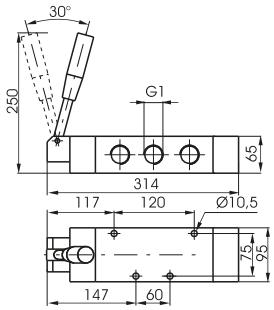
3 ways



Weight 4300 g

211.32.9.1

5 ways



Weight 4900 g

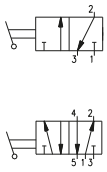
211.52.9.1

Lever lateral 2 positions

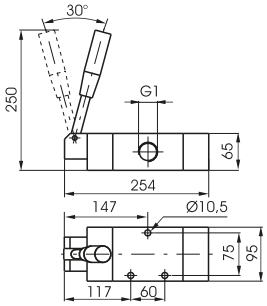
Coding: 211.Ⓣ.9

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
	52 = 5 ways



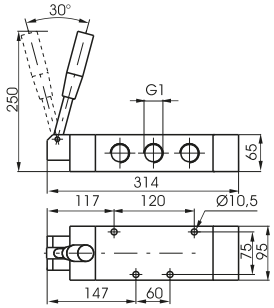
3 ways



Weight 4300 g

211.32.9

5 ways



Weight 4900 g

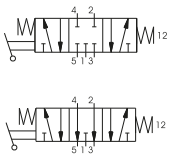
211.52.9

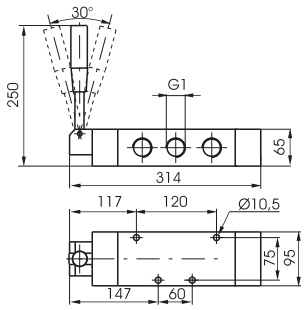
Lever lateral spring centre 3 positions

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

Series T200

General

The **T200** series, consist of a broad range of valves with various type of actuation. The connections for this series are from G 1/8" to G 1/4".
The main components constituting the valves of the Tecno228 series are manufactured with high performance technopolymer.
The use of technopolymer has resulted in a light weight product which can be offered to the market at very interesting prices.
The **T228** series, is manufactured with 1/8" connections, 3 and 5 ways function, mechanical or pneumatically operated, monostable spring or pneumatic return, bistable and in 5 ways 3 positions version with closed, open and pressured centres.
This series is completely interchangable with the standard 228 series (with alluminium body).
The **T224** valves and solenoid valves series, are manufactured with 1/4" connections. Depending on version and actuation (manual, pneumatic, or electrical), and self aligning (pneu - elect, spring) 3/2, 5/2 and 5/3 ways function, (monostable), (bistable).
The gang mounted solenoid valves are available with the traditional manifold obtained from bored square bar of series 600 and with the extruded aluminium base allowing a unic inlet port conveying the exhausts. The base is also prearranged to be fixed on DIN 46277/3 guide.

Maximum fitting torque

Thread	Maximum torque (Nm)
G 1/8"	4
G1/4"	9

Construction characteristics

	G 1/8" (T228) and G 1/4" (T224)
Body	Technopolymer
Operators	Technopolymer
Seals	NBR
Spacer	Technopolymer
Spools	Technopolymer Stainless steel only for the versions Push button-Spring and Lever lateral
Springs	Spring steel
Pistons	Technopolymer

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 MAGNA GC 32 (Castrol).

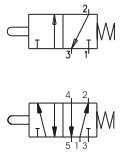
Tappet - Spring

Coding: T228.Ⓣ.0.1

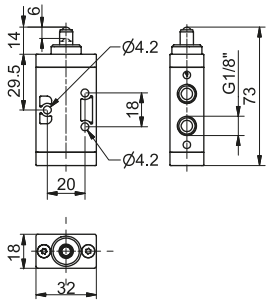
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +50
Flow rate at 6 bar with Δp=1 (Nl/min)	620
Orifice size (mm)	6
Working ports size	G1/8"

	TYPE
Ⓣ	**32** = 3 ways
	52 = 5 ways

Operating force 33 N



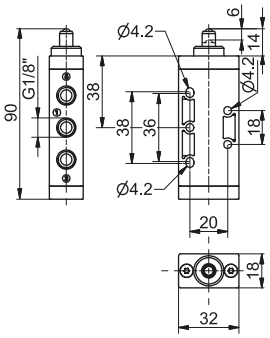
3 ways



Weight 60 g

T228.32.0.1

5 ways



Weight 72 g

T228.52.0.1

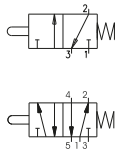
Tappet panel - Spring

Coding: T228.Ⓣ.1.1

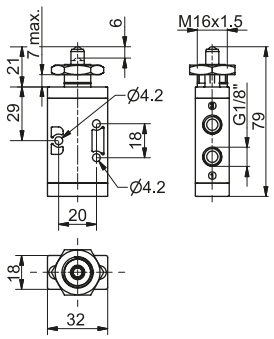
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +50
Flow rate at 6 bar with Δp=1 (Nl/min)	620
Orifice size (mm)	6
Working ports size	G1/8"

	TYPE
Ⓣ	**32** = 3 ways
	52 = 5 ways

Operating force 33 N



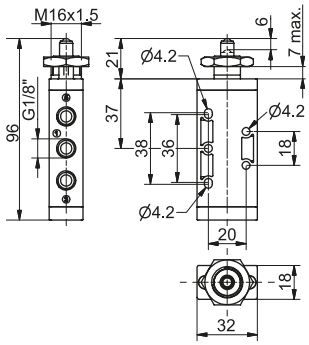
3 ways



Weight 77 g

T228.32.1.1

5 ways



Weight 90 g

T228.52.1.1

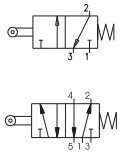
Lever roller

Coding: T228.Ⓣ.2.Ⓥ

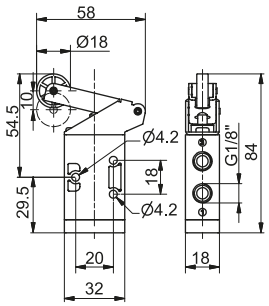
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +50
Flow rate at 6 bar with Δp=1 (Nl/min)	620
Orifice size (mm)	6
Working ports size	G1/8"

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

Operating force 15 N



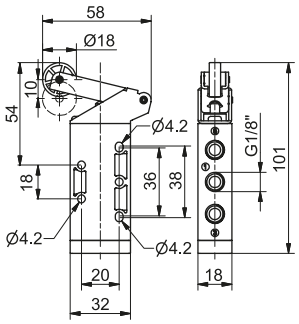
3 ways



Weight 90 g

T228.32.2.Ⓥ

5 ways



Weight 102 g

T228.52.2.Ⓥ

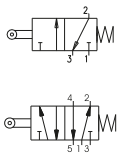
Lever roller ball bearing - Spring

Coding: T228.Ⓣ.2.1/1

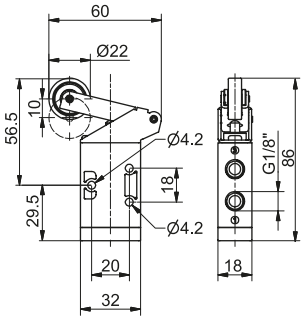
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +50
Flow rate at 6 bar with Δp=1 (Nl/min)	620
Orifice size (mm)	6
Working ports size	G1/8"

Ⓣ	TYPE
	32 = 3 ways
	52 = 5 ways

Operating force 15 N



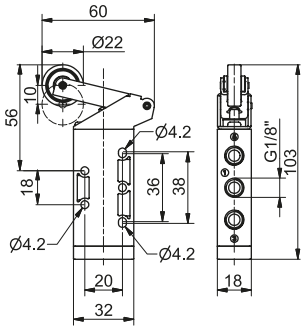
3 ways



Weight 105 g

T228.32.2.1/1

5 ways



Weight 117 g

T228.52.2.1/1

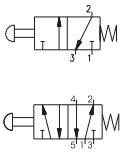
Lever button - Spring

Coding: T228.Ⓣ.2.6/Ⓒ

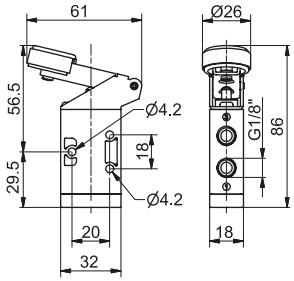
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +50
Flow rate at 6 bar with Δp=1 (Nl/min)	620
Orifice size (mm)	6
Working ports size	G1/8"

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

Operating force 15 N



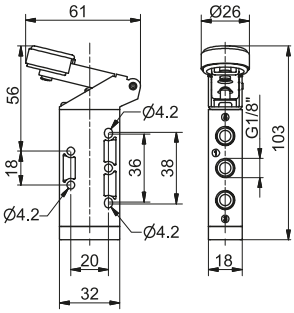
3 ways



Weight 95 g

T228.32.2.6/Ⓒ

5 ways



Weight 87 g

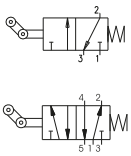
T228.52.2.6/Ⓒ

Lever roller unidirectional - Spring

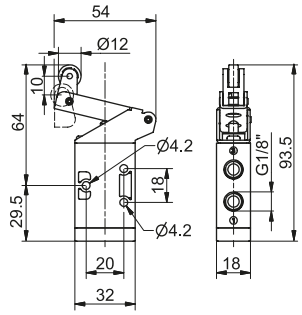
Coding: T228.Ⓣ.3.Ⓥ

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +50
Flow rate at 6 bar with Δp=1 (Nl/min)	620
Orifice size (mm)	6
Working ports size	G1/8"

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



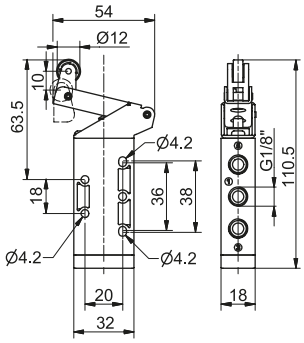
3 ways



Weight 85 g

T228.32.3.Ⓥ

5 ways



Weight 97 g

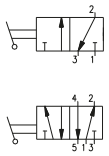
T228.52.3.Ⓥ

Lever panel Ø30 - 2 positions

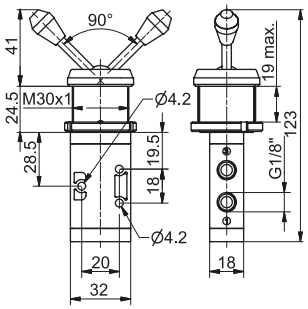
Coding: T228.Ⓣ.5/Ⓒ

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +50
Flow rate at 6 bar with Δp=1 (Nl/min)	620
Orifice size (mm)	6
Working ports size	G1/8"

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



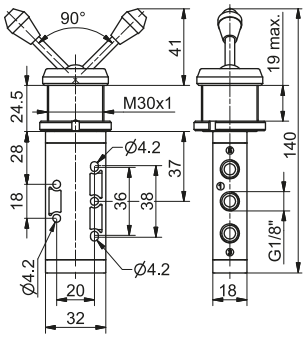
3 ways



Weight 168 g

T228.32.5/Ⓒ

5 ways



Weight 180 g

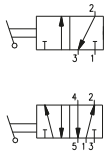
T228.52.5/Ⓒ

Lever lateral 2 positions

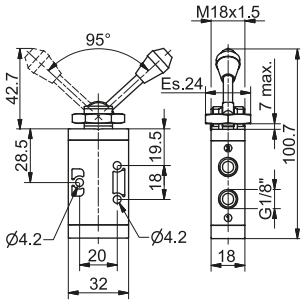
Coding: T228.Ⓣ.55/Ⓒ

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +50
Flow rate at 6 bar with Δp=1 (Nl/min)	620
Orifice size (mm)	6
Working ports size	G1/8"

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



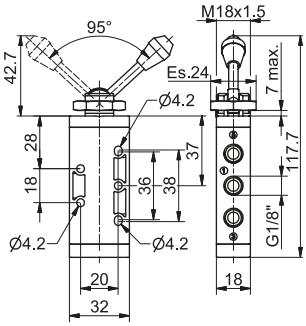
3 ways



Weight 84 g

T228.32.55/Ⓒ

5 ways



Weight 96 g

T228.52.55/Ⓒ

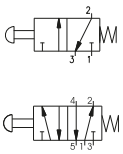
Push button Ø 30 - spring

Coding: T228.Ⓣ.6.1/Ⓒ

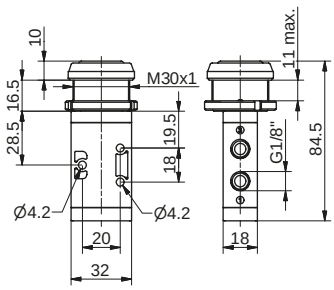
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +50
Flow rate at 6 bar with Δp=1 (Nl/min)	620
Orifice size (mm)	6
Working ports size	G1/8"

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

Operating force 33 N



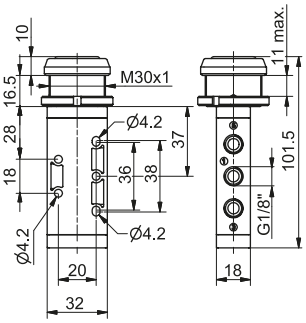
3 ways



Weight 125 g

T228.32.6.1/Ⓒ

5 ways



Weight 137 g

T228.52.6.1/Ⓒ

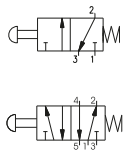
Push button - Spring

Coding: T228.Ⓣ.6.22/Ⓒ

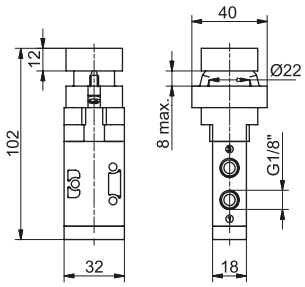
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +50
Flow rate at 6 bar with Δp=1 (Nl/min)	620
Orifice size (mm)	6
Working ports size	G1/8"

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

Operating force 33 N



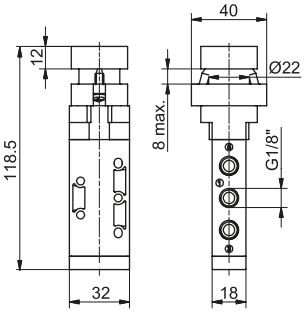
3 ways



Weight 200 g

T228.32.6.22/Ⓒ

5 ways



Weight 212 g

T228.52.6.22/Ⓒ

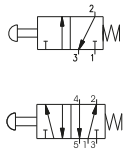
Raised push button Ø22 - Spring

Coding: T228.Ⓣ.6.23/Ⓒ

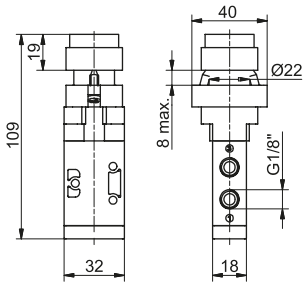
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +50
Flow rate at 6 bar with Δp=1 (Nl/min)	620
Orifice size (mm)	6
Working ports size	G1/8"

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

Operating force 33 N



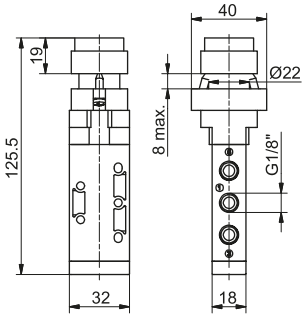
3 ways



Weight 205 g

T228.32.6.23/Ⓒ

5 ways



Weight 217 g

T228.52.6.23/Ⓒ

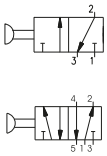
Push button Ø22 - 2 positions

Coding: T228.Ⓣ.6.25

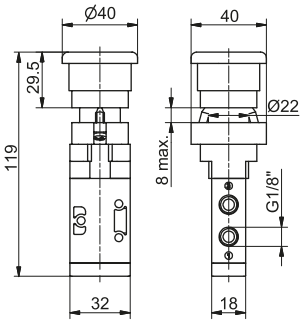
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +50
Flow rate at 6 bar with Δp=1 (Nl/min)	620
Orifice size (mm)	6
Working ports size	G1/8"

Ⓣ	TYPE
	32 = 3 ways
	52 = 5 ways

Operating force 33 N



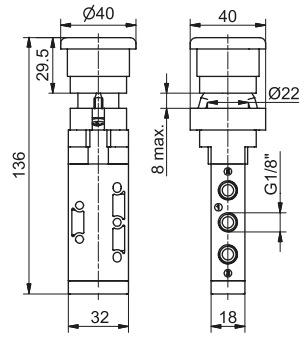
3 ways



Weight 210 g

T228.32.6.25

5 ways



Weight 202 g

T228.52.6.25

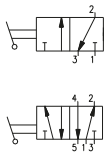
Switch 2 positions

Coding: T228.Ⓣ.6.27

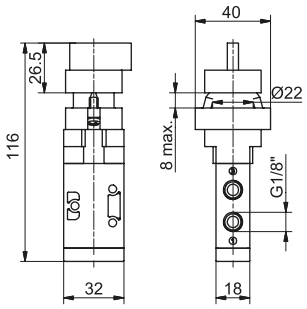
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +50
Flow rate at 6 bar with Δp=1 (Nl/min)	620
Orifice size (mm)	6
Working ports size	G1/8"

	TYPE
Ⓣ	**32** = 3 ways
	52 = 5 ways

Operating force 33 N



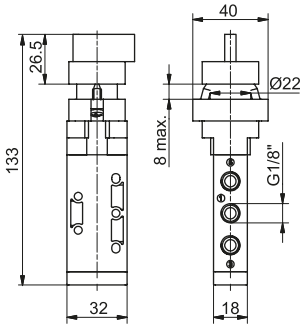
3 ways



Weight 205 g

T228.32.6.27

5 ways



Weight 217 g

T228.52.6.27

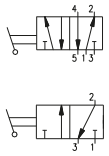
Key switch 2 positions

Coding: T228.Ⓣ.6.28

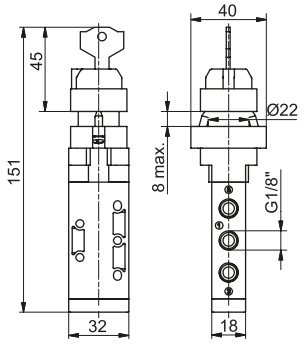
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +50
Flow rate at 6 bar with Δp=1 (Nl/min)	620
Orifice size (mm)	6
Working ports size	G1/8"

	TYPE
Ⓣ	**32** = 3 ways
	52 = 5 ways

Operating force 33 N



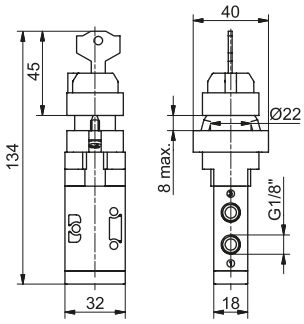
5 ways



Weight 217 g

T228.52.6.28

3 ways



Weight 205 g

T228.32.6.28

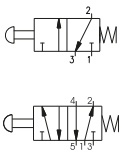
Palm push button Ø30 2 positions

Coding: T228.Ⓣ.7.1/Ⓒ

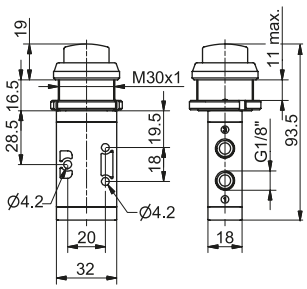
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +50
Flow rate at 6 bar with Δp=1 (Nl/min)	620
Orifice size (mm)	6
Working ports size	G1/8"

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

Operating force 33 N



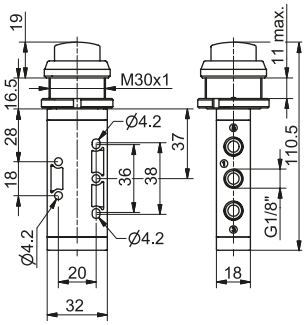
3 ways



Weight 118 g

T228.32.7.1/Ⓒ

5 ways



Weight 130 g

T228.52.7.1/Ⓒ

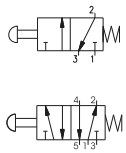
Push button - Spring

Coding: T228.Ⓣ.8.1/Ⓒ

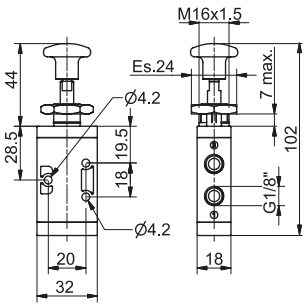
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +50
Flow rate at 6 bar with Δp=1 (Nl/min)	620
Orifice size (mm)	6
Working ports size	G1/8"

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

Operating force 33 N



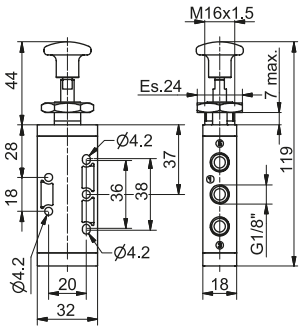
3 ways



Weight 95 g

T228.32.8.1/Ⓒ

5 ways



Weight 107 g

T228.52.8.1/Ⓒ

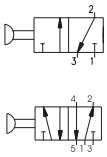
Push button 2 positions

Coding: T228.Ⓣ.8/Ⓒ

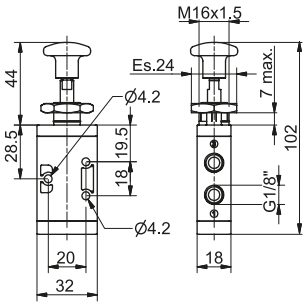
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +50
Flow rate at 6 bar with Δp=1 (Nl/min)	620
Orifice size (mm)	6
Working ports size	G1/8"

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

Operating force 10 N



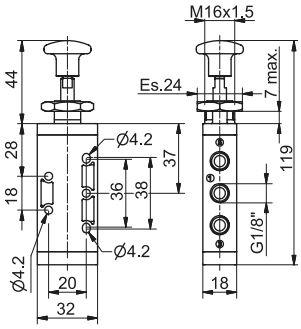
3 ways



Weight 95 g

T228.32.8/Ⓒ

5 ways



Weight 107 g

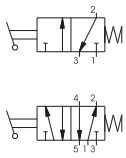
T228.52.8/Ⓒ

Lever lateral - Spring

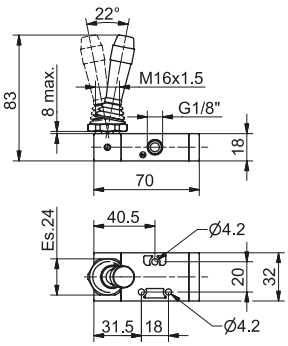
Coding: T228.Ⓣ.9.1/Ⓒ

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +50
Flow rate at 6 bar with Δp=1 (Nl/min)	620
Orifice size (mm)	6
Working ports size	G1/8"

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



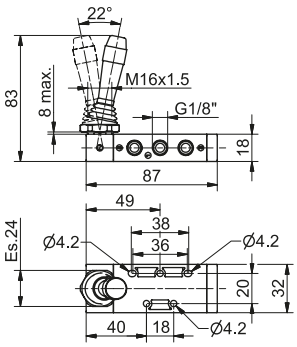
3 ways



Weight 100 g

T228.32.9.1/Ⓒ

5 ways



Weight 110 g

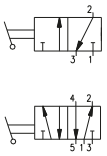
T228.52.9.1/Ⓒ

Lever lateral 2 positions

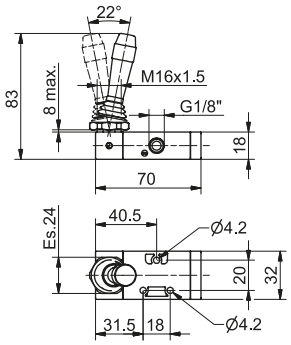
Coding: T228.Ⓣ.9/Ⓒ

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +50
Flow rate at 6 bar with Δp=1 (Nl/min)	620
Orifice size (mm)	6
Working ports size	G1/8"

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



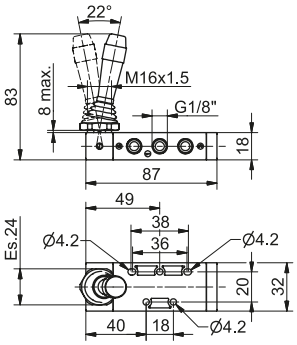
3 ways



Weight 100 g

T228.32.9/Ⓒ

5 ways



Weight 110 g

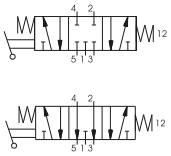
T228.52.9/Ⓒ

Lever lateral - Spring 3 positions

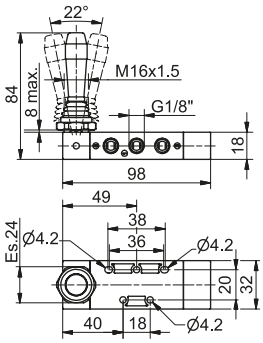
Coding: T228.53.Ⓕ.9.1.Ⓒ

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +50
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
Ⓒ	LEVER COLOR
	1 = Red
	2 = Black
	3 = Green



Weight 140 g

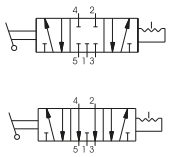


Lever lateral - Spring 3 positions detent

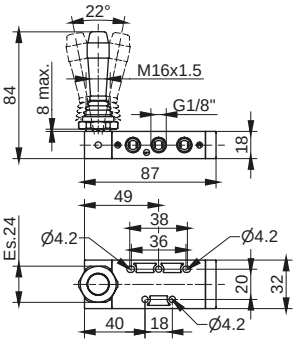
Coding: T228.53.Ⓕ.9/Ⓒ

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)	410
Orifice size (mm)	6
Working ports size	G1/8"

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



Weight 110 g



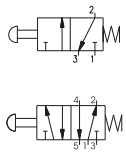
Push button - Spring

Coding: T224.Ⓣ.8.1

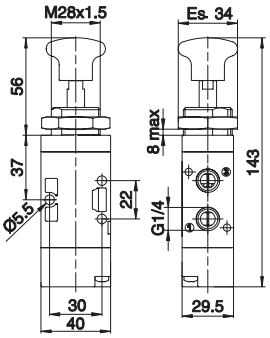
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +50
Flow rate at 6 bar with Δp=1 (Nl/min)	1050
Orifice size (mm)	8.5
Working ports size	G1/4"

	TYPE
Ⓣ	**32** = 3 ways
	52 = 5 ways

Operating force 50 N



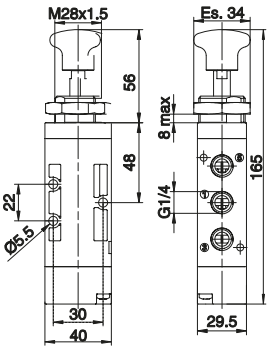
3 ways



Weight 170 g

T224.32.8.1

5 ways



Weight 200 g

T224.52.8.1

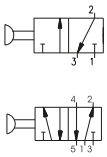
Push button 2 positions

Coding: T224.Ⓣ.8

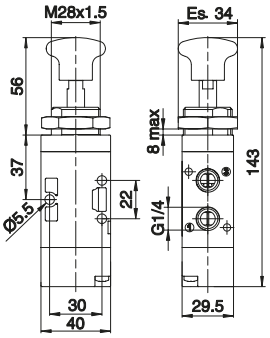
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +50
Flow rate at 6 bar with Δp=1 (Nl/min)	1050
Orifice size (mm)	8.5
Working ports size	G1/4"

	TYPE
Ⓣ	**32** = 3 ways
	52 = 5 ways

Operating force 13 N



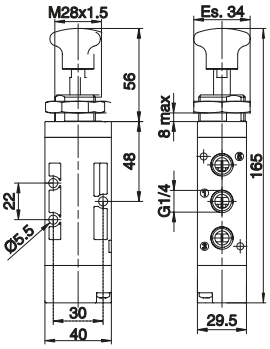
3 ways



Weight 170 g

T224.32.8

5 ways



Weight 200 g

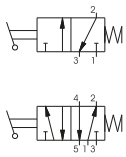
T224.52.8

Lever lateral - Spring

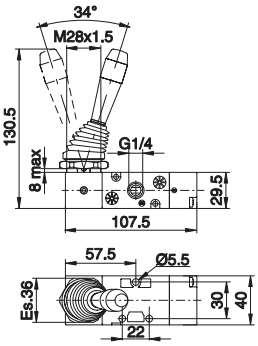
Coding: T224.Ⓣ.9.1/Ⓒ

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +50
Flow rate at 6 bar with Δp=1 (Nl/min)	1050
Orifice size (mm)	8.5
Working ports size	G1/4"

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



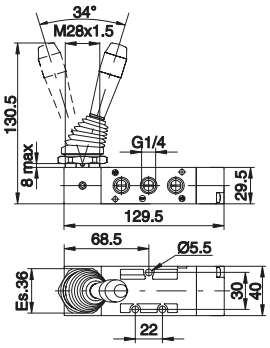
3 ways



Weight 220 g

T224.32.9.1/Ⓒ

5 ways



Weight 250 g

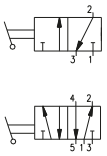
T224.52.9.1/Ⓒ

Lever lateral 2 positions

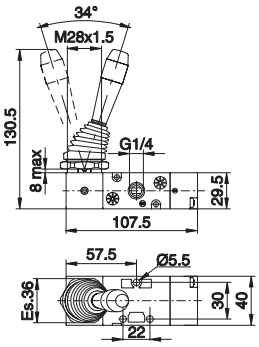
Coding: T224.Ⓣ.9/Ⓒ

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +50
Flow rate at 6 bar with Δp=1 (Nl/min)	1050
Orifice size (mm)	8.5
Working ports size	G1/4"

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



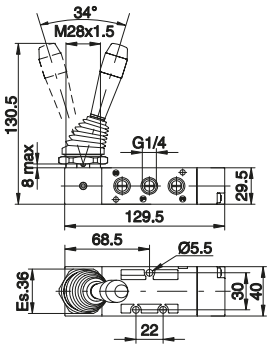
3 ways



Weight 220 g

T224.32.9/Ⓒ

5 ways



Weight 250 g

T224.52.9/Ⓒ

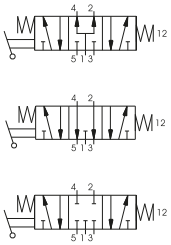
Lever lateral 3 positions

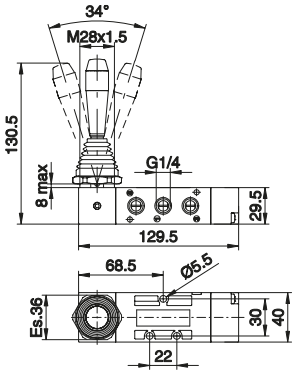
Coding: T224.53.Ⓕ9.1/Ⓒ

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +50
Flow rate at 6 bar with Δp=1 (Nl/min)	900
Orifice size (mm)	8.5
Working ports size	G1/4"

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

Weight 270 g





Lateral lever - 3 positions detent

Coding: T224.53.Ⓕ.9/Ⓒ

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +50
Flow rate at 6 bar with Δp=1 (Nl/min)	900
Orifice size (mm)	8.5
Working ports size	G1/4"

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

Weight 270 g