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.

	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

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 $\Delta p=1$ (NI/min)	540	
Orifice size (mm)	6	
Working ports size	G1/8"	

Coding: 228.**1**.0.1

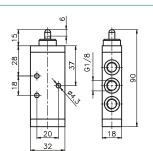
	TYPE
•	32 = 3 ways
_	52 = 5 ways

3 ways



Weight 85 g Operating force 33 N

228.32.0.1

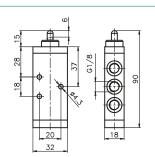






Weight 105 g Operating force 33 N

228.52.0.1





Tappet panel - Spring

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 $\Delta p=1$ (NI/min)	540
Orifice size (mm)	6
Working ports size	G1/8"

Coding: 228.0.1.1

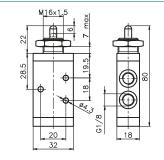
	TYPE
0	32 = 3 ways
_	52 = 5 ways

3 ways



Weight 102 g Operating force 33 N

228.32.1.1

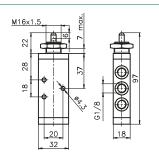






Weight 122 g Operating force 33 N

228.52.1.1





Lever roller - Spring

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 $\Delta p=1$ (NI/min)	540
Orifice size (mm)	6
Working ports size	G1/8"

	TYPE	
32 = 3 ways		32 = 3 ways
٦		52 = 5 ways
٦	VERSION	
٦	V	1 = Plastic roller

Metal roller

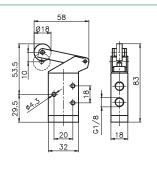
228. **1**.2. **◊**

Coding:



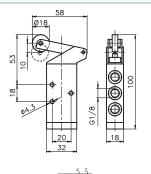
Weight 115 g Operating force 15 N

228.32.2.











ENEMNAY

Lever roller ball bearing - Spring

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 (NI/min)	540
Orifice size (mm)	6
Working ports size	G1/8"

Coding: 228. **1**.2.1/1

	TYPE
0	32 = 3 ways
	52 = 5 ways





3 ways



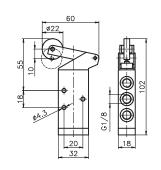
Weight 130 g Operating force 15 N

228.32.2.1/1



Weight 150 g Operating force 15 N

228.52.2.1/1



Lever button - Spring

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 (NI/min)	540
Orifice size (mm)	6
Working ports size	G1/8"

Coding: 228.0.2.6/@

	TYPE
Ū	32 = 3 ways
	52 = 5 ways
	BUTTON COLOR
0	1 = Red
	2 = Black
	3 = Green





3 ways



Weight 120 g Operating force 15 N

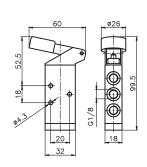
228.32.2.6/

5 ways



Weight 120 g Operating force 15 N

228.52.2.6/@



Switch lateral 2 positions

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 (NI/min)	540	
Orifice size (mm)	6	
Working ports size	G1/8"	

Coding: 228.0.27

	TYPE
0	32 = 3 ways
	52 = 5 ways



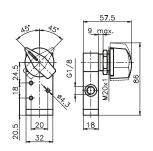


3 ways



Weight 190 g

228.32.27

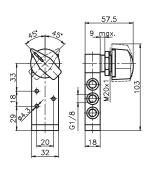


5 ways



Weight 210 g

228.52.27



Lever roller unidirectional - Spring

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 (NI/min)	540
Orifice size (mm)	6
Working ports size	G1/8"

Coding: 228.**①**.3.**②**

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





3 ways



Weight 110 g

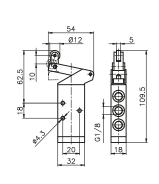
228.32.3.

5 way



Weight 130 g

228.52.3.



Lever roller lateral bidirectional - Spring

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 $\Delta p=1$ (NI/min)	540
Orifice size (mm)	6
Working ports size	G1/8"

Coding: 228.0.4.1

TYPE	
	32 = 3 ways
	52 = 5 ways

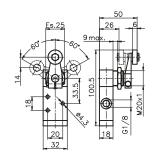


3 ways



Weight 180 g

228.32.4.1



5 ways



Weight 200 g 228.52.4.1

Lever sensitive - differential

· ·	
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 (NI/min)	540
Orifice size (mm)	6
Working ports size	G1/8"

Coding: 228.0.4.13

	TYPE
0	32 = 3 ways
-	52 = 5 ways

Minimum rotation angle 11°

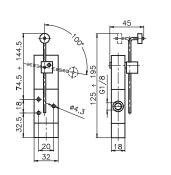


3 ways



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

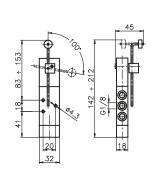
228.32.4.13



5 ways

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

228.52.4.13



ENFINAY

Lever panel Ø30 - 2 positions

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 (NI/min)	540
Orifice size (mm)	6
Working ports size	G1/8"

Coding: 2	228. 0 .5/ 0
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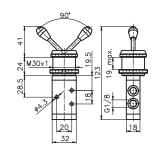
	TYPE
•	32 = 3 ways
	52 = 5 ways
•	LEVER COLOR
	1 = Red
	2 = Black
	3 = Green



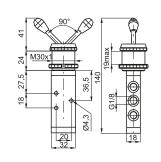


3 ways









Weight 198 g

228.32.5/@

Frontal lever - 2 positions

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 $\Delta p=1$ (NI/min)	540
Orifice size (mm)	6
Working ports size	G1/8"

Coding: 228.0.55/@

Weight 218 g

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

228.52.5/@

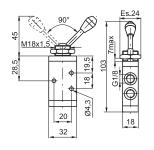




3 ways

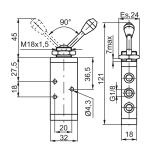
Weight 115 g





5 ways





Weight 135 g

5 ways

228.52.55/

Push button Ø 30 - spring

228.32.55/@

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 (NI/min)	540	
Orifice size (mm)	6	
Working ports size	G1/8"	

Coding: 228.0.6.1/@

	TYPE
0	32 = 3 ways
	52 = 5 ways
•	BUTTON COLOR
	1 = Red
	2 = Black
	3 = Green

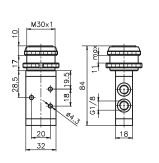




3 ways



Weight 155 g
Operating force 33 N
228.32.6.1/



Weight 175 g Operating force 33 N

228.52.6.1/**©**

Sensitive push button Ø30 - differential

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 $\Delta p=1$ (NI/min)	540	
Orifice size (mm)	6	
Working ports size	G1/8"	

228.0.6.13/@ Coding:

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







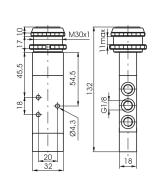
Weight 197 g Operating force 18,5 N (at 6 bar)

228.32.6.13/@



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

228.52.6.13/@



Push button - Spring

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 $\Delta p = 1$ (NI/min)	540	
Orifice size (mm)	6	
Working ports size	G1/8"	

101,5

228.0.6.22/@ Coding:

	TYPE
0	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

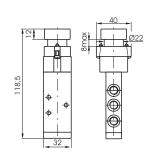
228.32.6.22/@

5 ways



Weight 245 g Operating force 33 N

228.52.6.22/@



Raised push button Ø22 - Spring

•		
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 ∆p=1 (NI/min)	540	
Orifice size (mm)	6	
Working ports size	G1/8"	

228.0.6.23/@ Coding:

	TYPE
0	32 = 3 ways
	52 = 5 ways
•	BUTTON COLOR
	1 = Red
	2 = Black
	3 = Green
	4 = Yellow



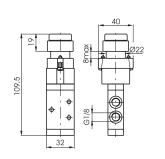


3 ways



Weight 230 g Operating force 33 N

228.32.6.23/

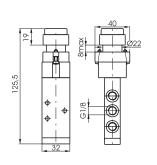




5 ways

Weight 250 g Operating force 33 N

228.52.6.23/@



Push button Ø22 - 2 positions

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 (NI/min)	540	
Orifice size (mm)	6	
Working ports size	G1/8"	

Coding: 228. **1**.6.25

TYPE	
•	32 = 3 ways
	52 = 5 ways
Emergency - Rotate to unlock	



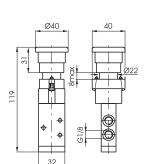


3 ways



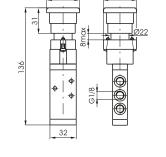
Weight 235 g Operating force 33 N

228.32.6.25





Weight 235 g Operating force 33 N



Switch 2 positions

Operational characteristics		
Filtered air. No lubrication needed, if applied it shall be continuous		
10		
-5 ÷ +70		
540		
6		
G1/8"		

Coding: 228.0.6.27

•	TYPE	
	32 = 3 ways	
	52 = 5 ways	

228.52.6.25



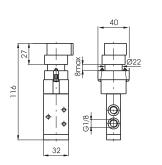


3 ways



Weight 230 g

228.32.6.27

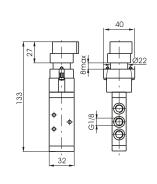


5 ways



Weight 250 g

228.52.6.27



Key switch 2 positions

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 (NI/min)	540
Orifice size (mm)	6
Working ports size	G1/8"

Coding: 228.0.6.28

•	TYPE
•	32 = 3 ways
	52 = 5 ways



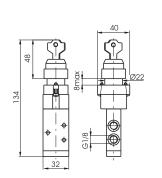






Weight 230 g

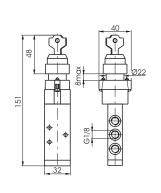
228.32.6.28



5 ways

Weight 250 g

228.52.6.28



Palm push button Ø30 2 positions

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 $\Delta p=1$ (NI/min)	540
Orifice size (mm)	6
Working ports size	G1/8"

Coding: 228.0.7.1/@

0	TYPE
	32 = 3 ways
	52 = 5 ways
	BUTTON COLOR
•	1 = Red
	2 = Black
	3 = Green





3 ways



Weight 148 g

228.32.7.1/

M30x1

62

18

20

32

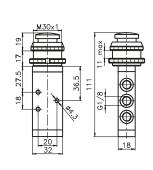
18

•



Weight 168 g

228.52.7.1/@



Push button - Spring

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 $\Delta p=1$ (NI/min)	540
Orifice size (mm)	6
Working ports size	G1/8"

Coding: 228. **1**.8.1/

0	TYPE
	32 = 3 ways
	52 = 5 ways
•	BUTTON COLOR
	1 = Red
	2 = Black
	3 = Green



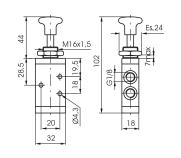


3 ways



Weight 120 g

228.32.8.1/**©**

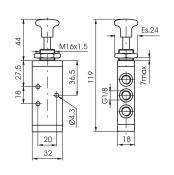


5 ways



Weight 140 g

228.52.8.1/@



Push button 2 positions

· ·	
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 (NI/min)	540
Orifice size (mm)	6
Working ports size	G1/8"

Coding: 228.0.8/@

	TYPE
0	32 = 3 ways
	52 = 5 ways
	BUTTON COLOR
•	1 = Red
	2 = Black
	3 = Green



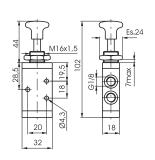






Weight 120 g

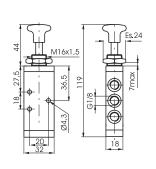
228.32.8/



Weight 140 g

5 ways

228.52.8/**@**



Lever lateral - Spring

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 (NI/min)	540
Orifice size (mm)	6
Working ports size	G1/8"

228.0.9.1/@ Coding:

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





3 ways



Weight 140 g

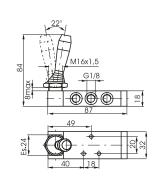
228.32.9.1/

40.5



Weight 160 g

228.52.9.1/



Lever lateral 2 positions

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 (NI/min)	540
Orifice size (mm)	6
Working ports size	G1/8"



TYPE 32 = 3 ways 52 = 5 ways LEVER COLOR 1 = Red 2 = Black		
52 = 5 ways LEVER COLOR 1 = Red 2 = Black		TYPE
LEVER COLOR 1 = Red 2 = Black	Ū	32 = 3 ways
1 = Red 2 = Black		52 = 5 ways
2 = Black	•	LEVER COLOR
2 = Black		1 = Red
3 - Cross		2 = Black
3 = Green		3 = Green



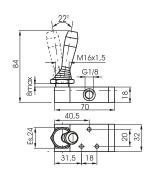


3 ways



Weight 140 g

228.32.9/

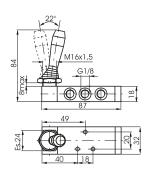


5 ways



Weight 160 g

228.52.9/@



Pedal aluminium 2 positions

,	
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 (NI/min)	540
Orifice size (mm)	6
Working ports size	G1/8"

Coding: 228.1.10

	TYPE
0	32 = 3 ways
	52 = 5 ways



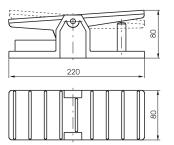


3 ways



Weight 790 g

228.32.10

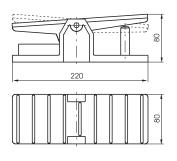


5 ways



Weight 810 g

228.52.10



Pedal aluminium - Spring

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 $\Delta p=1$ (NI/min)	540
Orifice size (mm)	6
Working ports size	G1/8"

228. 10.10.1 Coding:

	TYPE
•	32 = 3 ways
	52 = 5 ways





AIR DISTRIBUTION



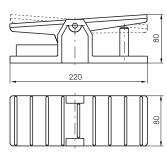
Weight 790 g

228.32.10.1



Weight 810 g

228.52.10.1



Pedal protected - Spring

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 $\Delta p = 1$ (NI/min)	540
Orifice size (mm)	6
Working ports size	G1/8"

228.0.10.0 Coding:

Standard version
without safety device





3 ways



Weight 1120 g

228.32.10.

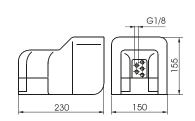
G1/8

5 ways



Weight 1120 g

228.52.10.



Pedal protected 2 positions

•	
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 $\Delta p = 1$ (NI/min)	540
Orifice size (mm)	6
Working ports size	G1/8"

230

228. 10/1 Coding:

	TYPE
0	32 = 3 ways
_	52 = 5 ways



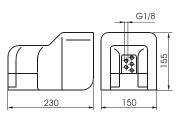


3 ways



Weight 1120 g

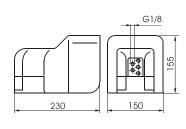
228.32.10/1



5 ways



Weight 1120 g



228.52.10/1

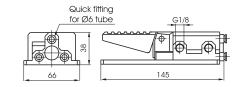
Pedal plastic miniaturized - Spring

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 (NI/min)	540
Orifice size (mm)	6
Working ports size	G1/8"

	FUNCTION	
(3)	1P = Standard version	
	1PX = Stainless steel spool	

228.52.10.





Coding:

Coding:

Weight 230 g

Lever lateral spring centre 3 positions

 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 (NI/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

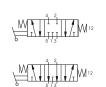
2 = Black

3 = Green

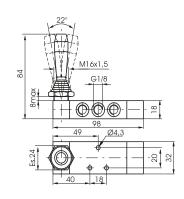
228.53.**3**.9.1/**9**



Weight 190 g







Coding:

Lever lateral 3 positions detent

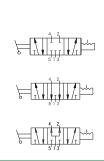
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +70
Flow rate at 6 bar with Δp=1 (NI/min)	540
Orifice size (mm)	6
Working ports size	G1/8"

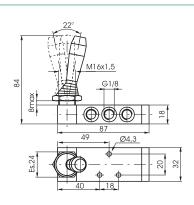
FUNCTION 31 = Closed centres 32 = Open centres 33 = Pressured centres		FUNCTION
		31 = Closed centres
		32 = Open centres
		33 = Pressured centres
	LEVER COLOR	
١,		1 = Red
•	2 = Black	
	3 = Green	

228.53. 3.9/ 3



Weight 160 g





Weight 140 g

Weight 140 g



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

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

		LEVER COLOR
	•	1 = Red
-		

Coding: 228.53.32.99P/©





Coding:

Lever central (spring 3 pos.) Levar in Technopolymer

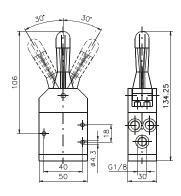
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +70
Flow rate at 6 bar with $\Delta p=1$ (NI/min)	410
Orifice size (mm)	6
Working ports size	G1/8"

LEVER COLOR 1 = Red 2 = Black

228.53.32.99/@





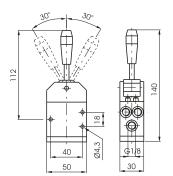


Lever central Metal (spring 3 pos.) One position stable

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 $\Delta p=1$ (NI/min)	410
Orifice size (mm)	6
Working ports size	G1/8"







Weight 140 g

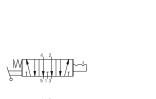
Lever central Metal

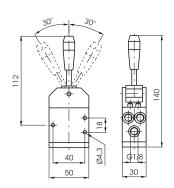
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Temperature °C	-5 ÷ +70
Flow rate at 6 bar with Δp=1 (NI/min)	410
Orifice size (mm)	6
Working ports size	G1/8"

	FUNCTION
•	2 = 2 Stable positions
	3 = 3 pos. stable
	LEVER COLOR
•	1 = Red
-	2 = Black

228.53.32.99.







Coding:

Coding:

Weight 140 g

Pedal - Spring 3 positions

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

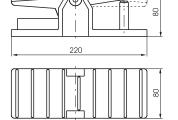
FUNCTION	
•	31 = Closed centres
	32 = Open centres

228.53.









Weight 810 g

G1/8



Pneumatic - Spring

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 $\Delta p=1$ (NI/min)	540	
Orifice size (mm)	6	
Working ports size	G1/8"	
Pilot ports size	G1/8"	

Coding: 228.0.11.1

ı		TYPE
	0	32 = 3 ways
		52 = 5 ways





3 ways



Weight 110 g Minimum piloting pressure 2,5 bar

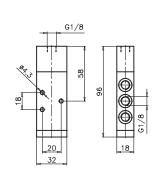
228.32.11.1

5 ways



Weight 130 g Minimum piloting pressure 2,5 bar

228.52.11.1



Pneumatic - Differential external

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 $\Delta p = 1$ (NI/min)	540	
Orifice size (mm)	6	
Working ports size	G1/8"	
Pilot ports size	G1/8"	

228. 11.12 Coding:







3 ways



Weight 140 g Minimum piloting pressure 2,5 bar

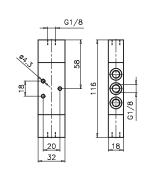
228.32.11.12

5 ways



Weight 160 g Minimum piloting pressure 2,5 bar

228.52.11.12



Pneumatic - Differential self aligned

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 $\Delta p=1$ (NI/min)	540	
Orifice size (mm)	6	
Working ports size	G1/8"	
Pilot ports size	G1/8"	

Coding: 228.1.11.12/1

	TYPE
0	32 = 3 ways
_	52 = 5 ways

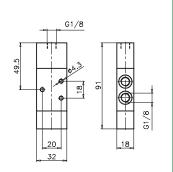


3 ways



Weight 130 g Minimum piloting pressure 2,5 bar

228.32.11.12/1

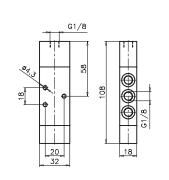


5 ways



Weight 150 g Minimum piloting pressure 2,5 bar

228.52.11.12/1





Pneumatic - Pneumatic

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 (NI/min)	540	
Orifice size (mm)	6	
Working ports size	G1/8"	
Pilot ports size	G1/8"	

Coding: 228.0.11.11

	0	TYPE
٦		32 = 3 ways
4		52 = 5 ways





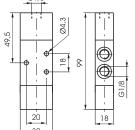
3 ways



Weight 140 g Minimum piloting pressure 2 bar

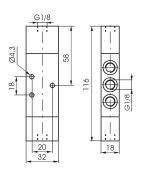
228.32.11.11

5 ways



Weight 160 g Minimum piloting pressure 2 bar

228.52.11.11



Amplified pneumatic - Spring

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 (NI/min)	540	
Orifice size (mm)	6	
Working ports size	G1/8"	
Pilot ports size	G1/8"	



5 ways

•	TYPE
	32 = 3 ways
	52 = 5 ways



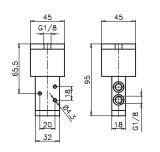


3 ways



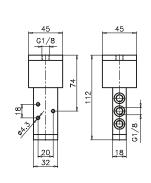
Weight 260 g Minimum piloting pressure 0,5 bar

228.32.13.1



Weight 290 g Minimum piloting pressure 0,5 bar

228.52.13.1



Pneumatic - Pneumatic 5 ways 3 connections

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

Coding: 228.53. **3**.11.11

(3)	FUNCTION
	31 = Closed centres
	32 = Open centres
	33 = Pressured centres



Weight 180 g Minimum piloting pressure 3 bar

228.53. 3.11.11

