- **Port size: G1/8 or G1/4, ø 6 mm PIF**
- **Wide range of operators**
- **Suitable for multi-directional flow and dual supply applications**
- **High flow capacity**



Technical features

Medium:
Compressed air, filtered, lubricated and non-lubricated
Operation:
Spool valve, directly and indirectly actuated
Ports:
1/8", ø 6 mm PIF (available on the PA range only) and 1/4"
Operating pressure:
Max. 10 bar (145 psi)
Flow:

Size	l/min	Cv	Kv
1/8"	335	0,34	0,295
1/4"	965	0,98	0,351

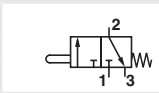
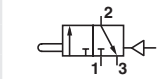
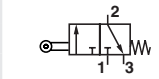
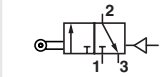
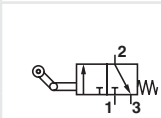
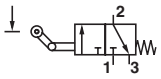
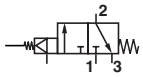
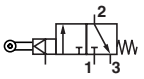
Ambient/Media temperature:
0 ... +70°C (+32 ... +158°F)
Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+35°F).
Mounting:
Through-holes in valve body

3/2 way PA body valves
Metal versions are available on request
Port assembly torque:
Use recommended torque for fittings. This should not exceed 10 Nm, otherwise damage may occur to body.
PIF Ports:
The PIF fittings are suitable for PA 11 or 12, PU (92 to 98 shore) and other plasticised or unplasticised tubing which conforms to the tolerances specified in BS5409, Part 1, 1976, light and normal duty, DIN 73378, DIN74234, NFE 49-100. Tube is to be cut square and free of burrs.

Materials:
Plastic version for 3/2 way valves only
Body and end cover: PA6
Operators: Aluminium, steel, plastic etc.
Seals: NBR
Metal version
Body: diecast zinc
End cover: aluminium or glass-filled nylon
Operators: Aluminium, steel, plastic etc.
Seals: NBR

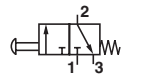
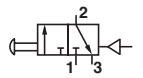
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Technical data
3/2 mechanical valves

Symbol	Port size	Actuation	Body	Operating pressure (bar)	Operating force (N)	Weight (kg)	Spares kit	Dimension No.	Model
	G1/8	Plunger/spring	PA6	- 0,9 ... 10	31	0,06	03840802	1	03040002
	ø 6 mm	Plunger/spring	PA6	- 0,9 ... 10	31	0,07	03840802	1	03040032
	G1/4	Plunger/spring	Zinc	- 0,9 ... 10	53	0,34	03860202	23	03060002
	G1/8	Plunger/pilot	Zinc	- 0,9 ... 10 *1)	18	0,20	03840802	2	03041702
	G1/8	Roller/spring	PA6	- 0,9 ... 10	31	0,06	03840802	3	03040202
	ø 6 mm	Roller/spring	PA6	- 0,9 ... 10	31	0,07	03840802	3	03040232
	G1/4	Roller/spring	Zinc	- 0,9 ... 10	61	0,34	03860202	24	03060202
	G1/8	Roller/pilot	Zinc	- 0,9 ... 10	18 *1)	0,18	03840802	4	03040902
	G1/4	Roller/pilot	Zinc	- 0,9 ... 10	13 *1)	0,39	03861202	25	03060902
	G1/8	Roller lever/pilot	Zinc	- 0,9 ... 10	9 *1)	0,25	03840802	6	03042702
	G1/4	Roller lever/pilot	Zinc	- 0,9 ... 10	9 *1)	0,45	03861202	27	03062402
	G1/8	Roller lever/spring	PA6	- 0,9 ... 10	31	0,09	03840802	5	03041102
	ø 6 mm	Roller lever/spring	PA6	- 0,9 ... 10	31	0,10	03840802	5	03041132
	G1/4	Roller lever/spring	Zinc	- 0,9 ... 10	45	0,41	03860202	26	03061102
	G1/8	Roller lever (heavy duty) /spring	PA6	- 0,9 ... 10	31	0,12	03840802	7	03029302
	ø 6 mm	Roller lever (heavy duty)/spring	PA6	- 0,9 ... 10	31	0,13	03840802	7	03029332
	G1/8	One way trip lever/spring	PA6	- 0,9 ... 10	31	0,12	03840802	9	03041002
	ø 6 mm	One way trip lever/spring	PA6	- 0,9 ... 10	31	0,13	03840802	9	03041032
	G1/8	One way trip lever (heavy duty)/spring	PA6	- 0,9 ... 10	31	0,15	03840802	10	03029402
	ø 6 mm	One way trip lever (heavy duty)/spring	PA6	- 0,9 ... 10	31	0,16	03840802	10	03029432
	G1/8	Antenna/spring	PA6	- 0,9 ... 10	0,3 at tip	0,10	03843202	11	03043202
	ø 6 mm	Antenna/spring	PA6	- 0,9 ... 10	0,3 at tip	0,11	03843202	11	03043232
	G1/8	Sensitive roller/spring	Zinc	- 0,9 ... 10	1	0,25	03847302	8	03042302

*1) At zero bar, reset pressure 2 bar minimum
Pressure for pilot function is the minimum pressure to operate the valve. The valve may switch below this pressure.

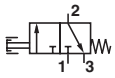
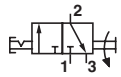
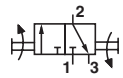
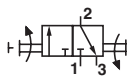
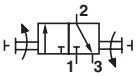
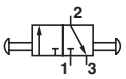
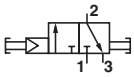
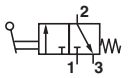
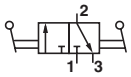
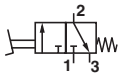
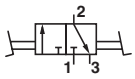
3/2 manual valves

Symbol	Port size	Actuation	Body	Colour	Operating pressure (bar)	Operating force (N)	Weight (kg)	Spares kit	Dimension No.	Model
	G1/8	Button/spring	PA6	Black	- 0,9 ... 10	31	0,07	03840802	33	03040402
	ø 6 mm	Button/spring	PA6	Black	- 0,9 ... 10	31	0,08	03840802	33	03040432
	G1/8	Button/spring	PA6	Green	- 0,9 ... 10	31	0,07	03840802	33	03040502
	ø 6 mm	Button/spring	PA6	Green	- 0,9 ... 10	31	0,08	03840802	33	03040532
	G1/8	Button/spring	PA6	Red	- 0,9 ... 10	31	0,07	03840802	33	03040602
	ø 6 mm	Button/spring	PA6	Red	- 0,9 ... 10	31	0,08	03840802	33	03040632
	G1/4	Knob/spring	Zinc	Black	- 0,9 ... 10	53	0,41	03861202	67	03060402
	G1/8	Knob/spring	PA6	Black	- 0,9 ... 10	18	0,07	03840802	44	03034502
	ø 6 mm	Knob/spring	PA6	Black	- 0,9 ... 10	18	0,08	03840802	44	03034532
	G1/8	Button (palm)/spring	PA6	Red	- 0,9 ... 10	31	0,13	03840802	35	03036602
	ø 6 mm	Button (palm)/spring	PA6	Red	- 0,9 ... 10	31	0,14	03840802	35	03036632
	G1/8	Button (palm)/spring	PA6	Green	- 0,9 ... 10	31	0,13	03840802	35	03036702
	ø 6 mm	Button (palm)/spring	PA6	Green	- 0,9 ... 10	31	0,14	03840802	35	03036732
	G1/8	Button (palm)/spring	PA6	Black	- 0,9 ... 10	31	0,13	03840802	35	03036802
	ø 6 mm	Button (palm)/spring	PA6	Black	- 0,9 ... 10	31	0,14	03840802	35	03036832
	G1/8	Button/pilot	Zinc	Black	- 0,9 ... 10 *1)	18	0,22	03840802	34	03040802
	G1/8	Button/pilot	Zinc	Green	- 0,9 ... 10 *1	18	0,22	03840802	34	03042002
	G1/8	Button/pilot	Zinc	Red	- 0,9 ... 10 *1	18	0,22	03840802	34	03042102
	G1/4	Button/pilot	Zinc	Black	- 0,9 ... 10 *1	13	0,42	03861202	68	03060802

*1) At zero bar, reset pressure 2 bar minimum
Pressure for pilot function is the minimum pressure to operate the valve. The valve may switch below this pressure.

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3/2 manual valves

Symbol	Port size	Actuation	Body	Colour	Operating pressure (bar)	Operating force (N)	Weight (kg)	Spares kit	Dimension No.	Model
	G1/8	Button (shrouded)/spring	PA6	Black	- 0,9 ... 10	31	0,11	03840802	36	03041402
	ø 6 mm	Button (shrouded)/spring	PA6	Black	- 0,9 ... 10	31	0,12	03840802	36	03041432
	G1/8	Button (shrouded)/spring	PA6	Green	- 0,9 ... 10	31	0,11	03840802	36	03041502
	ø 6 mm	Button (shrouded)/spring	PA6	Green	- 0,9 ... 10	31	0,12	03840802	36	03041532
	G1/8	Button (shrouded)/spring	PA6	Red	- 0,9 ... 10	31	0,11	03840802	36	03041602
	ø 6 mm	Button (shrouded)/spring	PA6	Red	- 0,9 ... 10	31	0,12	03840802	36	03041632
	G1/8	Emergency stop/twist reset	PA6	Red	- 0,9 ... 10	18	0,15	03840802	37	03042802
	ø 6 mm	Emergency stop/twist reset	PA6	Red	- 0,9 ... 10	18	0,16	03840802	37	03042832
	G1/8	Rotary knob/set reset	PA6	Black	- 0,9 ... 10	—	0,14	03840802	46	03041902
	ø 6 mm	Rotary knob/set reset	PA6	Black	- 0,9 ... 10	—	0,15	03840802	46	03041932
	G1/8	Botton (palm)/key	PA6	Red	- 0,9 ... 10	31	0,20	03840802	39	03033502801
	ø 6 mm	Botton (palm)/key	PA6	Red	- 0,9 ... 10	31	0,21	03840802	39	03033532801
	G1/8	Key/key	PA6	Red	- 0,9 ... 10	—	0,16	03840802	48	030418 02801
	ø 6 mm	Key/key	PA6	Red	- 0,9 ... 10	—	0,17	03840802	48	030418 22801
	G1/8	Knob/knob	PA6	Black	- 0,9 ... 10	18	0,07	03840802	44	03042502
	ø 6 mm	Knob/knob	PA6	Black	- 0,9 ... 10	18	0,08	03840802	44	03042532
	G1/4	Knob/knob	Zinc	Black	- 0,9 ... 10	13	0,37	03860202	69	03062502
	G1/8	Knob/knob or pilot	Zinc	Black	- 0,9 ... 10	18	0,21	03840802	45	03042402
	G1/4	Knob/knob or pilot	Zinc	Black	- 0,9 ... 10 *3)	13	0,41	03861202	70	03062702
	G1/8	Knob lever/spring	PA6	Black	- 0,9 ... 10	18	0,09	03840802	43	03042602
	ø 6 mm	Knob lever/spring	PA6	Black	- 0,9 ... 10	18	0,10	03840802	43	03042632
	G1/8	Lever/spring	Zinc	Black	- 0,9 ... 10	9	0,28	03840802	42	03043802
	G1/4	Lever/spring	Zinc	Black	- 0,9 ... 10	15	0,48	03860202	71	03063802
	G1/8	Toggle/toggle	PA6	Black	- 0,9 ... 10	28	0,06	03840802	41	03040302
	ø 6 mm	Toggle/toggle	PA6	Black	- 0,9 ... 10	28	0,07	03840802	41	03040332
	G1/8	Lever/lever	PA6	Black	- 0,9 ... 10	9	0,29	03840802	42	03043702
	G1/8	Lever/lever	Zinc	Black	- 0,9 ... 10	13	0,17	03840802	40	03029602
	G1/4	Lever/lever	Zinc	Black	- 0,9 ... 10	13	0,48	03860202	71	03063702
	G1/8	Pedal/spring	Zinc	Black	- 0,9 ... 10	22	1,03	03840802	49	03048102
	G1/4	Pedal/spring	Zinc	Black	- 0,9 ... 10	22	1,23	03860202	66	03068102
	G1/8	Pedal/pedal	Zinc	Black	- 0,9 ... 10	22	1,07	03840802	49	03048302
	G1/4	Pedal/pedal	Zinc	Black	- 0,9 ... 10	22	1,27	03860202	66	03068302

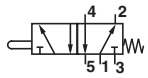
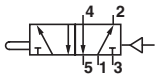
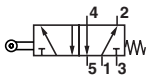
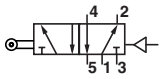
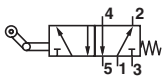
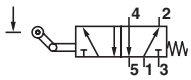
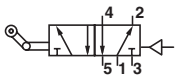
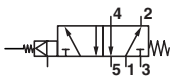
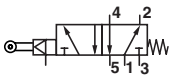
*3) Reset pressure: 4 bar minimum
Pressure for pilot function is the minimum pressure to operate the valve. The valve may switch below this pressure.

3/2 adaptor valves for Klöckner Möller actuators

Symbol	Port size	Actuation	Body	Operating pressure (bar)	Operating force (N)	Weight (kg)	Spares kit	Dimension No.	Model
	G1/8	Plunger/spring	PA6	- 0,9 ... 10	31	0,60	03840802	78	03029502
	ø 6 mm	Plunger/spring	PA6	- 0,9 ... 10	31	0,50	03840802	78	03029532

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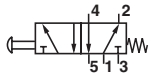
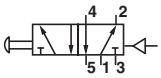
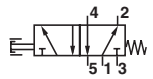
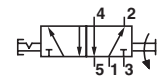
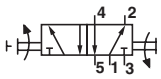
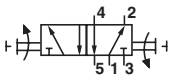
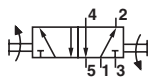
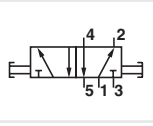
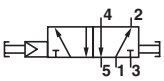
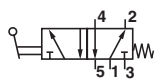
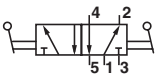
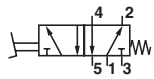
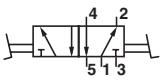
5/2 mechanical valves

Symbol	Port size	Actuation	Operating pressure (bar)	Operating force (N)	Weight (kg)	Spares kit	Dimension No.	Model
	G1/8	Plunger/spring	- 0,9 ... 10	54	0,25	03840802	12	X3044002
	G1/4	Plunger/spring	- 0,9 ... 10	62	0,46	03860202	28	X3064002
	G1/8	Plunger/pilot	- 0,9 ... 10	22 *1)	0,31	03840802	13	X3045702
	G1/8	Roller/spring	- 0,9 ... 10	54	0,25	03840802	14	X3044202
	G1/4	Roller/spring	- 0,9 ... 10	67	0,46	03860202	29	X3064202
	G1/8	Roller/pilot	- 0,9 ... 10	22 *1)	0,29	03840802	15	X3044902
	G1/4	Roller/pilot	- 0,9 ... 10	13 *1)	0,50	03861202	30	X3064902
	G1/8	Roller lever/spring	- 0,9 ... 10	31	0,32	03840802	16	X3045102
	G1/4	Roller lever/spring	- 0,9 ... 10	45	0,53	03860202	31	X3065102
	G1/8	Roller lever (heavy duty)/spring	- 0,9 ... 10	31	0,29	03840802	18	X3039302
	G1/8	One-way trip/spring	- 0,9 ... 10	31	0,32	03840802	20	X3045002
	G1/8	One-way trip (heavy duty)/spring	- 0,9 ... 10	31	0,29	03840802	21	X3039402
	G1/8	Roller lever/pilot	- 0,9 ... 10	9 *1)	0,36	03840802	17	X3046702
	G1/4	Roller lever/pilot	- 0,9 ... 10	9 *1)	0,57	03861202	32	X3066402
	G1/8	Antennar/spring	- 0,9 ... 10 *2)	0,3	0,30	N/A	22	X3047202
	G1/8	Sensitive roller/spring	- 0,9 ... 10 *2)	1	0,36	N/A	19	X3046302

*1) At zero bar, reset pressure 2 bar minimum
*2) Constant pilot pressure supply: 3 bar minimum
The oerating pressure for pilot function is the minimum pressure to operate the valve. The valve may switch below this pressure.

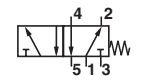
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5/2 manual valves

Symbol	Port size	Actuation	Colour	Operating pressure (bar)	Operating force (N)	Weight (kg)	Spares kit	Dimension No.	Model
	G1/8	Button (palm)/spring	Black	- 0,9 ... 10	54	0,26	03840802	50	X3044402
	G1/8	Button (palm)/spring	Green	- 0,9 ... 10	54	0,26	03840802	50	X3044502
	G1/8	Button (palm)/spring	Red	- 0,9 ... 10	54	0,26	03840802	50	X3044602
	G1/4	Button/spring	Black	- 0,9 ... 10	62	0,47	03860202	72	X3064402
	G1/8	Button (palm)/spring	Red	- 0,9 ... 10	31	0,40	03840802	51	X3038602
	G1/8	Button (palm)/spring	Green	- 0,9 ... 10	31	0,40	03840802	51	X3038702
	G1/8	Button (palm)/spring	Black	- 0,9 ... 10	31	0,40	03840802	51	X3038802
	G1/8	Button (palm)/pilot	Black	- 0,9 ... 10 *1)	22	0,34	03840802	53	X3044802
	G1/8	Button (palm)/pilot	Green	- 0,9 ... 10 *1)	22	0,34	03840802	53	X3046002
	G1/8	Button (palm)/pilot	Red	- 0,9 ... 10 *1)	22	0,34	03840802	53	X3046102
	G1/8	Button (shrouded)/spring	Black	- 0,9 ... 10	54	0,32	03840802	52	X3045402
	G1/8	Button (shrouded)/spring	Green	- 0,9 ... 10	54	0,32	03840802	52	X3045502
	G1/8	Button (shrouded)/spring	Red	- 0,9 ... 10	54	0,32	03840802	52	X3045602
	G1/8	Emergency stop/twist reset	Red	- 0,9 ... 10	18	0,54	03847302	51	X3046802
	G1/8	Button (palm)/key		- 0,9 ... 10	—	0,48	03840802	55	X3037502
	G1/8	Key/key		- 0,9 ... 10	—	0,47	03840802	64	X3045802801
	G1/8	Rotary knob/knob reset		- 0,9 ... 10	—	0,48	03840802	54	X3045902
	G1/8	Knob/knob	Black	- 0,9 ... 10	22	0,28	03840802	61	X3046502
	G1/4	Knob/knob	Black	- 0,9 ... 10	13	0,49	03860202	74	X3066502
	G1/8	Knob, push/knob, pull or pilot	Black	- 0,9 ... 10 *1)	22	0,32	03860202	62	X3046402
	G1/4	Knob, push/knob, pull or pilot	Black	- 0,9 ... 10 *1)	13	0,54	03861202	73	X3064802
	G1/8	Knob lever/spring		- 0,9 ... 10	31	0,35	03840802	60	X3046602
	G1/8	Lever/spring	Black	- 0,9 ... 10	16	0,40	03840802	58	X3047802
	G1/4	Lever/spring	Black	- 0,9 ... 10	15	0,60	03860202	75	X3067802
	G1/8	Toggle/toggle	Black	- 0,9 ... 10	13	0,28	03840802	56	X3029602
	G1/8	Toggle/toggle	Black	- 0,9 ... 10	48	0,27	03840802	57	X3044302
	G1/8	Toggle/lever	Black	- 0,9 ... 10	13	0,40	03840802	58	X3047702
	G1/4	Toggle/lever	Black	- 0,9 ... 10	13	0,61	03860202	75	X3067702
	G1/8	Pedal/spring	Black	- 0,9 ... 10	22	1,12	03840802	65	X3048202
	G1/4	Pedal/spring	Black	- 0,9 ... 10	22	1,33	03860202	77	X3068202
	G1/8	Pedal/pedal	Black	- 0,9 ... 10	22	1,18	03840802	65	X3048402
	G1/4	Pedal/pedal	Black	- 0,9 ... 10	22	1,27	03860202	76	X3068302

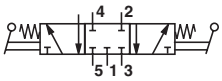
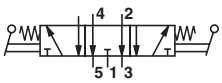
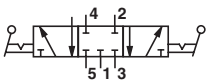
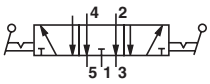
The oerating pressure for pilot function is the minimum pressure to operate the valve. The valve may switch below this pressure.

5/2 adaptor valves for Klöckner Möller actuators

Symbol	Port size	Actuation	Operating pressure (bar)	Operating force (N)	Weight (kg)	Spares kit	Dimension No.	Model
	G1/8	Plunger/spring	- 0,9 ... 10	54	0,25	03840802	79	X0039502

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5/3 manual valves

Symbol	Port size	Actuation	Colour	Function	Operating pressure (bar)	Operating force (N)	Weight (kg)	Spares kit	Dimension No.	Model
	G1/8	Lever/spring/lever	Black	APB	- 0,9 ... 10	15	0,85	03840802	60	X3343802
	G1/4	Lever/spring/lever	Black	APB	- 0,9 ... 10	15	1,06	03860202	76	X3363802
	G1/8	Lever/spring/lever	Black	COE	- 0,9 ... 10	15	0,85	03840802	60	X3347802
	G1/4	Lever/spring/lever	Black	COE	- 0,9 ... 10	15	1,06	03860202	76	X3367802
	G1/8	Lever/lever/lever	Black	APB	- 0,9 ... 10	12	0,44	03840802	60	X3343702
	G1/4	Lever/lever/lever	Black	APB	- 0,9 ... 10	12	0,65	03860202	76	X3363702
	G1/8	Lever/lever/lever	Black	COE	- 0,9 ... 10	12	0,44	03840802	60	X3347702
	G1/4	Lever/lever/lever	Black	COE	- 0,9 ... 10	12	0,65	03860202	76	X3367702

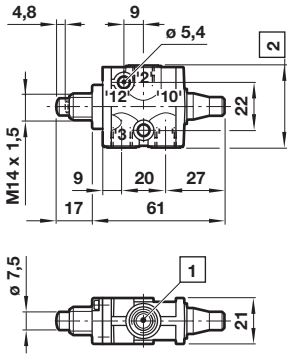
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Dimensions

Dimensions in mm
Projection/First angle

1

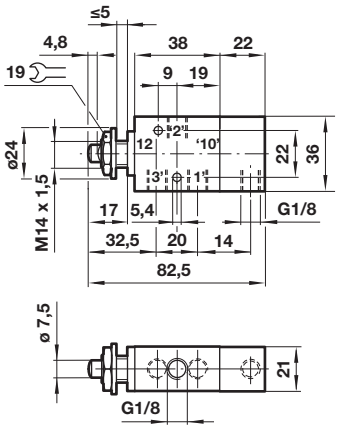
03040002, 03040032
3/2 Plunger actuated spring return valve



The plunger on this valve is designed for axial loading only.
Nut and mounting washer kit supplied as optional extra part number 03 0430 00

2

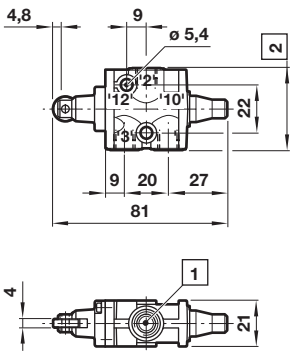
03041702
3/2 Plunger actuated pilot return valve



Full movement: 4,8 mm
Panel hole: Ø 15 mm
The plunger on this valve is designed for axial loading only. This valve can be panel mounted.

3

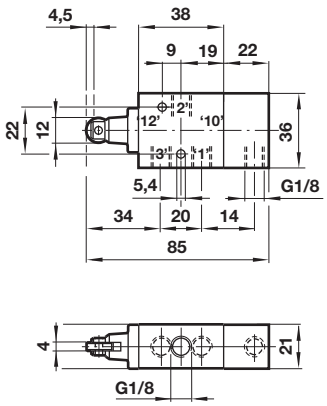
03040202, 03040232
3/2 Roller actuated spring return valve



Maximum recommended cam rise: 4,5 mm
Cam angle of approach: 30° maximum
Cam speed: 8 m/min. maximum
Operating speed: 300 cpm

4

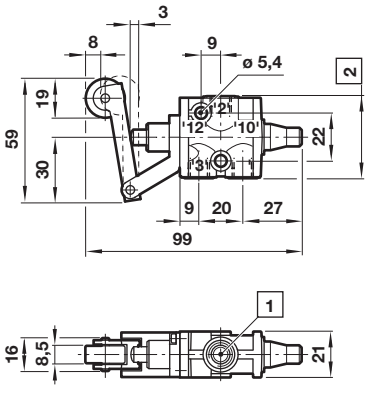
03040902
3/2 Roller actuated pilot return valve



Maximum recommended cam rise: 4,5 mm
Cam angle of approach: 30° maximum
Cam speed: 8 m/min. maximum
Operating speed: 300 cpm

5

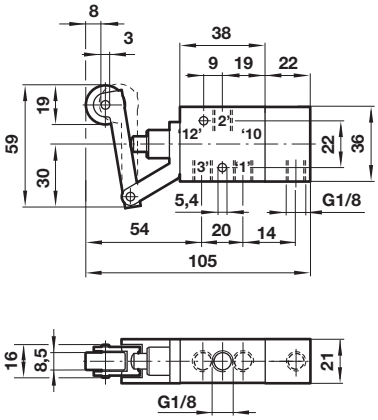
03041102, 03041132
3/2 Roller lever actuated spring return valve



Operating travel: 8 mm
Over-travel: 3 mm
Cam angle of approach: 45° maximum
Cam speed: 8 m/min. maximum
Operating speed: 300 cpm

6

03042702
3/2 Roller lever actuated pilot return valve



Operating travel: 8 mm;
Over-travel: 3 mm
Cam angle of approach: 45° maximum
Cam speed: 8 m/min. maximum
Operating speed: 300 cpm

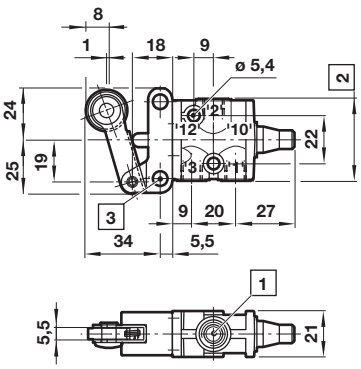
1 Port size G1/8 or ø 6 mm
2 37 mm for G1/8 and 45 mm for ø 6 mm

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Dimensions in mm
Projection/First angle

7

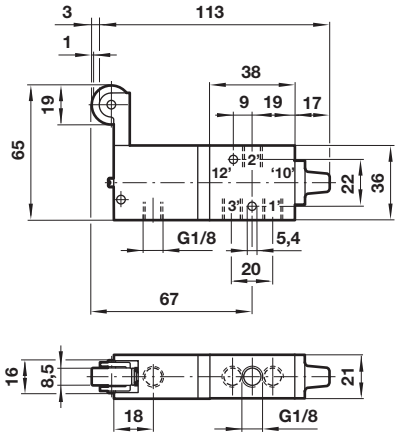
03029302, 03029332
3/2 Heavy duty roller lever actuated spring return valve



Operating Travel: 8 mm
Over-travel: 1 mm
Cam angle of approach: 45° maximum
Cam speed: 8 m/min. maximum
Operating speed: 300 cpm

8

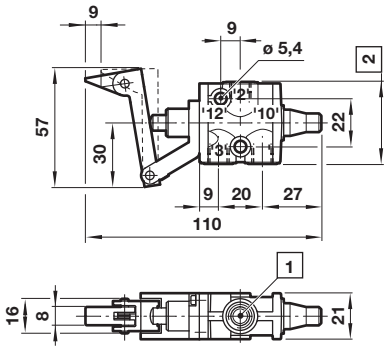
03042302
3/2 Sensitive roller lever actuated spring return valve



Pre-travel: 1 mm; Over-travel: 3 mm
Cam angle of approach: 45° maximum
Cam speed: 6,5 m/min. maximum

9

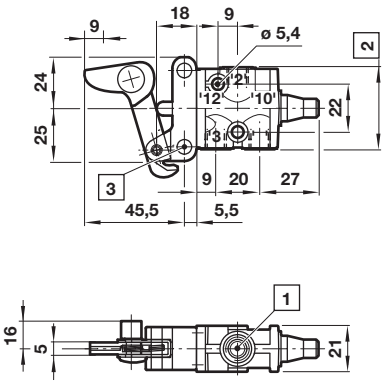
03041002, 03041032
3/2 One-way trip actuated spring return valve



Cam rise: 9 mm
Cam angle of approach: 90° maximum
Cam speed: 2 m/min. maximum
Operating speed: 120 cpm

10

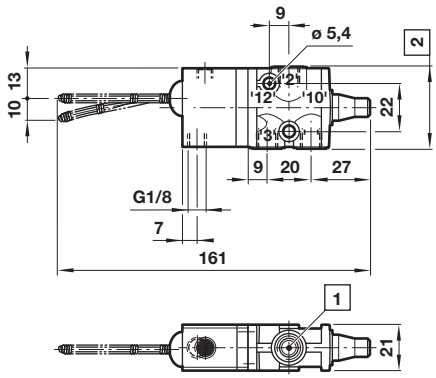
03029402, 03029432
3/2 Heavy duty one-way trip actuated spring return valve



Cam rise: 9 mm
Cam angle of approach: 90° maximum
Cam speed: 2 m/min. maximum
Operating speed: 120 cpm

11

03043202, 03043232
3/2 Antenna actuated spring return valve



Operating movement:
10 mm minimum in any direction.

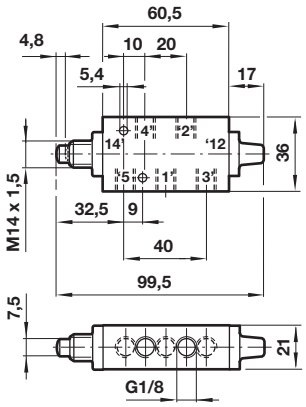
1 Port size G1/8 or ø 6 mm
2 37 mm for G1/8 and 45 mm for ø 6 mm
3 0,7 mm thick spacing washer must be used if additional mounting holes are used.

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Dimensions in mm
Projection/First angle

12

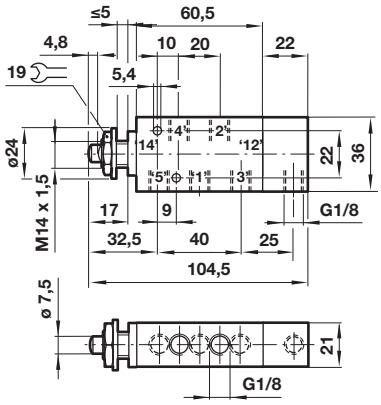
X3044002
5/2 Plunger actuated spring return valve



Full movement: 4,8 mm
The plunger on this valve is designed for axial loading only.
Nut and mounting washer kit supplied as optional extra part number 03 0430 00

13

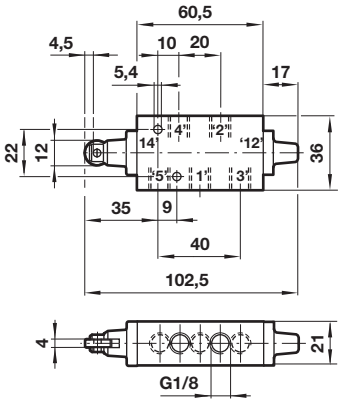
X3045702
5/2 Plunger actuated pilot return valve



Full movement: 4,8 mm
Panel hole: Ø 15 mm
The plunger on this valve is designed for axial mounting only. This valve can be panel mounted.

14

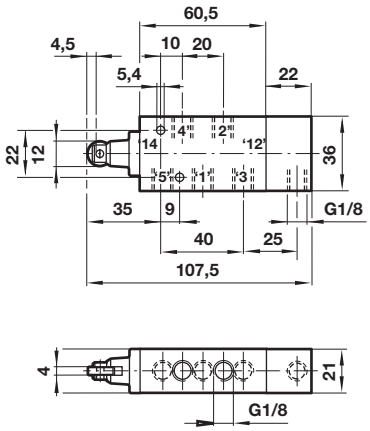
X3044202
5/2 Roller actuated spring return valve



Maximum recommended can rise: 4,5 mm
Cam angle of approach: 30° maximum
Cam speed: 8 m/min. maximum
Operating speed: 300 cpm

15

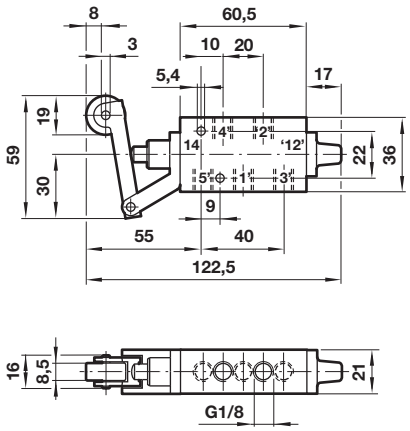
X3044902
5/2 Roller actuated pilot return valve



Maximum recommended cam rise: 4,5 mm
Cam angle of approach: 30° maximum
Cam speed: 8 m/min. maximum
Operating speed: 300 cpm

16

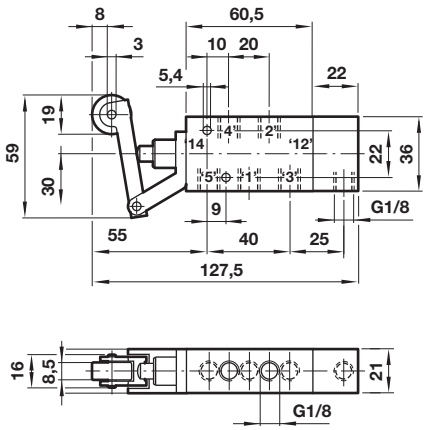
X3045102
5/2 Roller lever actuated spring return valve



Operating travel: 8 mm
Over-travel: 3 mm
Cam angle of approach: 45° maximum
Cam speed: 8 m/min. maximum
Operating speed: 300 cpm

17

X3046702
5/2 Roller lever actuated pilot return valve



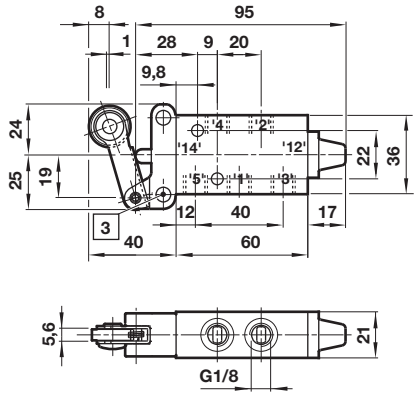
Operating travel: 8 mm; Over-travel: 3 mm
Cam angle of approach: 45° maximum
Cam speed: 8 m/min. maximum
Operating speed: 300 cpm

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Dimensions in mm
Projection/First angle

18

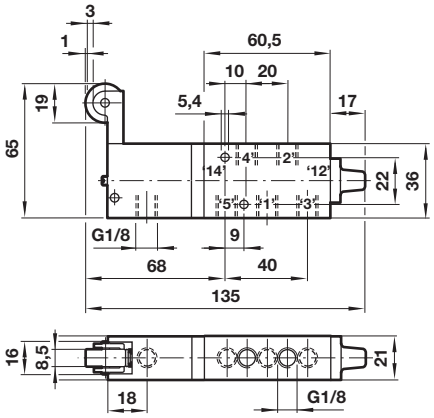
X3039302
5/2 Heavy duty roller lever actuated spring return valve



Operating travel: 8 mm
Over-travel: 1 mm
Cam angle of approach: 45° maximum
Cam speed: 8 m/min. maximum
Operating speed: 300 cpm

19

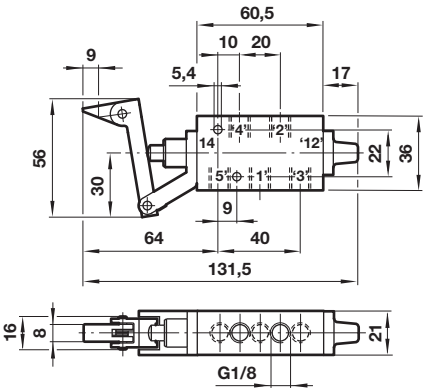
X3046302
5/2 Sensitive roller lever actuated spring return valve



Pre-travel: 1 mm;
Over-travel: 3 mm
Cam angle of approach: 45° maximum
Cam speed: 6,5 m/min. maximum

20

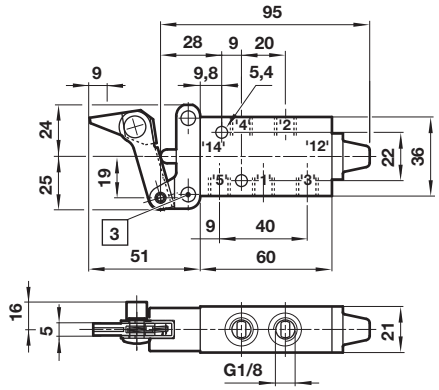
X3045002
5/2 One-way trip actuated spring return valve



Cam rise: 9 mm
Cam angle of approach: 90° maximum
Cam speed: 2 m/min. maximum
Operating speed: 120 cpm

21

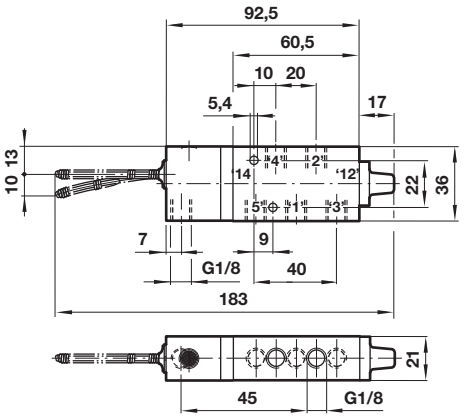
X3039402
5/2 Heavy duty one-way trip actuated spring return valve



Cam rise: 9 mm
Cam angle of approach: 90° maximum
Cam speed: 2 m/min. maximum
Operating speed: 120 cpm

22

X3047202
5/2 Antenna actuated spring return valve



Operating movement: 10 mm minimum
in any direction.

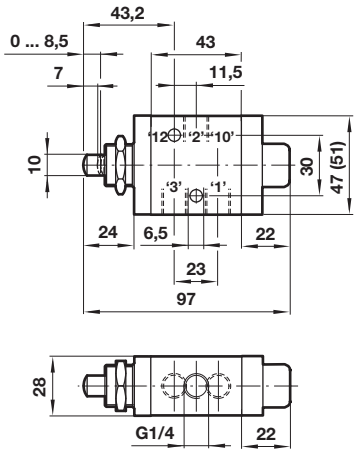
3 0,7 mm thick spacing washer must be used if additional mounting holes are used.

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Dimensions in mm
Projection/First angle

23

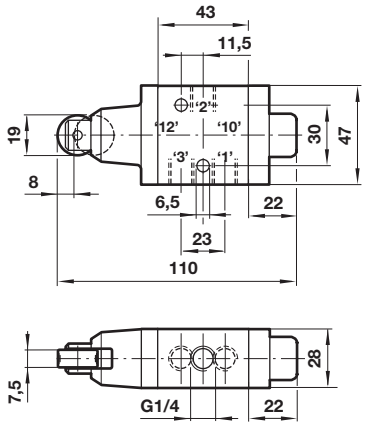
03060002
3/2 Plunger actuated spring return valve



Panel hole: Ø 21 mm
The plunger on this valve is designed for axial loading only.

24

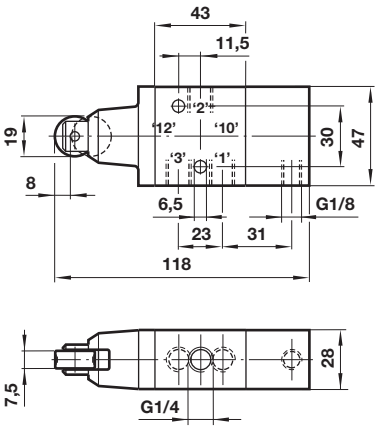
03060202
3/2 Roller actuated spring return valve



Cam angle of approach: 45° maximum
Cam speed: 6 m/min. maximum
Operating speed: 200 cpm

25

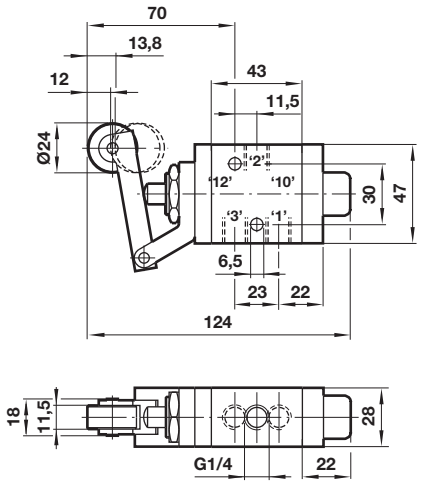
03060902
3/2 Roller actuated pilot return valve



Cam angle of approach: 45° maximum
Cam speed: 6 m/min. maximum
Operating speed: 200 cpm

26

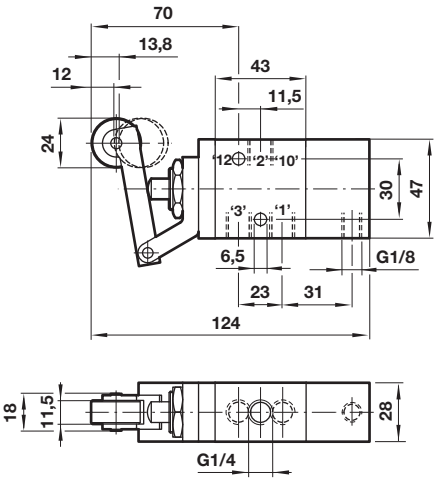
03061102
3/2 Roller lever actuated spring return valve



Cam angle of approach: 45° maximum
Cam speed: 5 m/min. maximum
Operating speed: 150 cpm

27

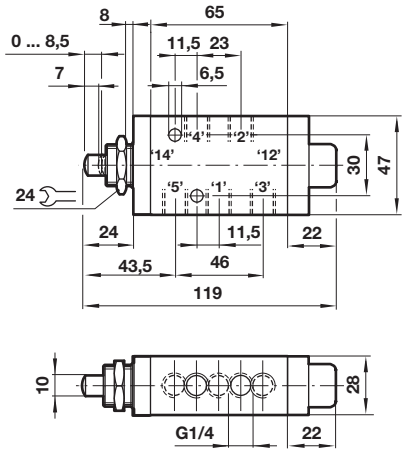
03062402
3/2 Roller lever actuated pilot return valve



Cam angle of approach: 45° maximum
Cam speed: 5 m/min. maximum
Operating speed: 150 cpm

28

X3064002
5/2 Plunger actuated spring return valve



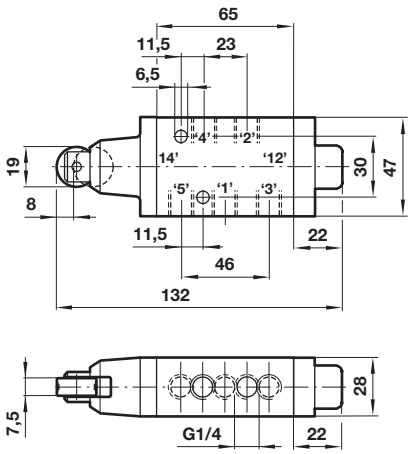
Panel hole: Ø 21 mm
The plunger on this valve is designed for axial loading only.

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Dimensions in mm
Projection/First angle

29

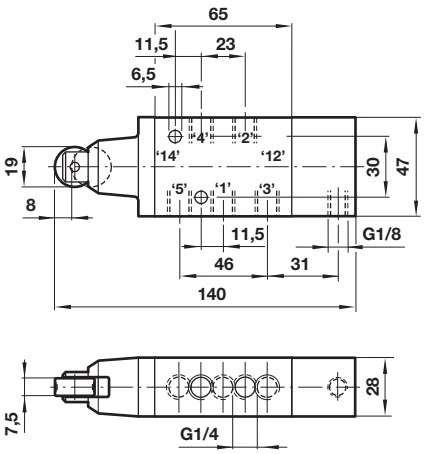
X3064202
5/2 Roller actuated spring return valve



Cam angle of approach: 45° maximum
Cam speed: 6 m/min. maximum
Operating speed: 200 cpm

30

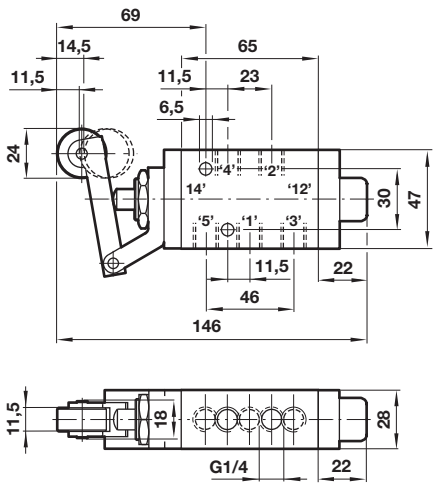
X3064902
5/2 Roller actuated pilot return valve



Cam angle of approach: 45° maximum
Cam speed: 6 m/min. maximum
Operating speed: 200 cpm

31

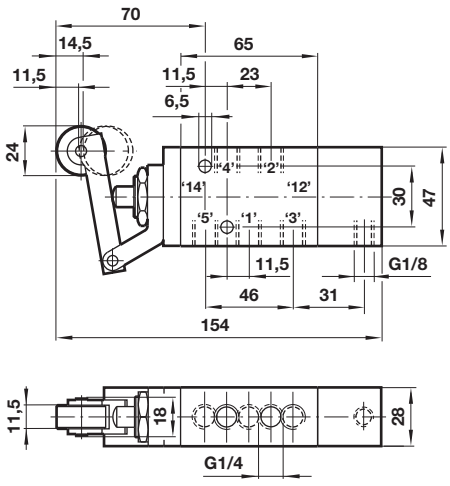
X3065102
5/2 Roller lever actuated spring return valve



Cam angle of approach: 45° maximum
Cam speed: 5 m/min. maximum
Operating speed: 150 cpm

32

X3066402
5/2 Roller lever actuated pilot return valve



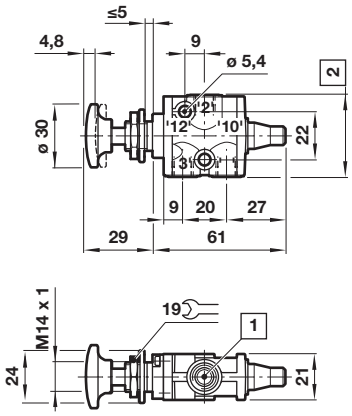
Cam angle of approach: 45° maximum
Cam speed: 5 m/min. maximum
Operating speed: 150 cpm

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Dimensions in mm
Projection/First angle

33

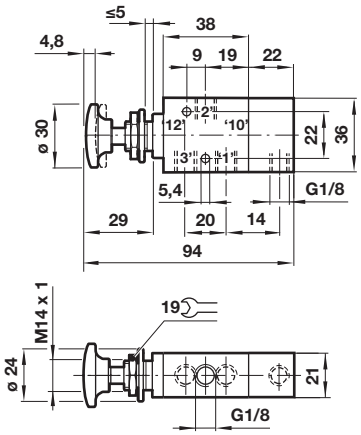
03040402, 03040502, 03040602
3/2 Button operated spring return valves



These valves are suitable for panel mounting by means of an optional nut and washer, reference 03 0430 00; a shrouded panel mounting kit is also available, reference 03 0429 00.

34

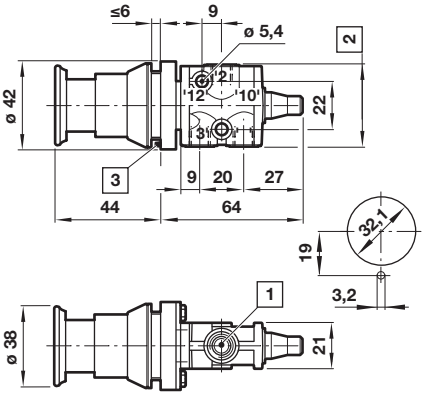
03040802, 03042002, 03042102
3/2 Button operated pilot return valve



These valves are suitable for panel mounting by means of an optional nut and washer, reference 03 0430 00; a shrouded panel mounting kit is also available, reference 03 0429 00.

35

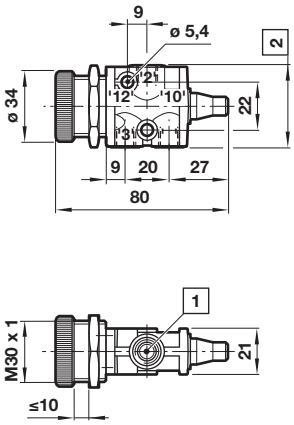
03036602, 03036702, 03036802
3/2 Button (Palm) operated spring return valves



These valves are suitable for panel mounting.

36

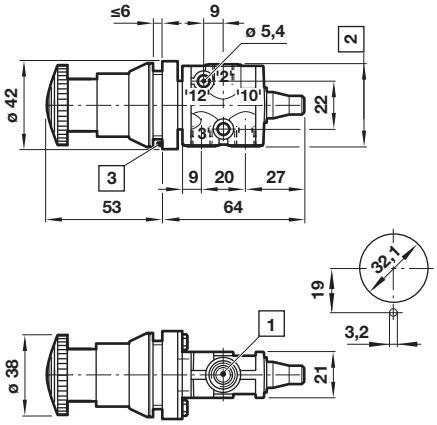
03041402, 03041502, 03041602
3/2 Button (Shrouded) operated spring return valves



These valves are suitable for panel mounting.

37

03042802, 03042832
3/2 Button (Palm) operated, twist return valve (Emergency stop)



Valve latches when button is depressed and returns when the locking ring is rotated anti-clockwise.
This valve is suitable for panel mounting.

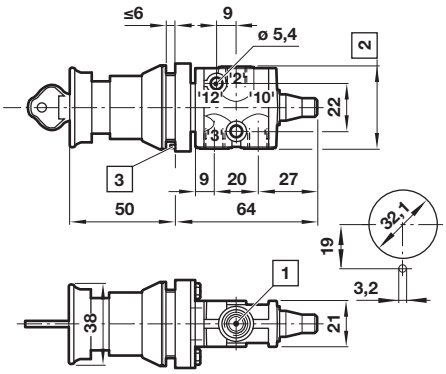
[1] Port size G1/8 or ø 6 mm
[2] 37 mm for G1/8 and 45 mm for ø 6 mm

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Dimensions in mm
Projection/First angle

39

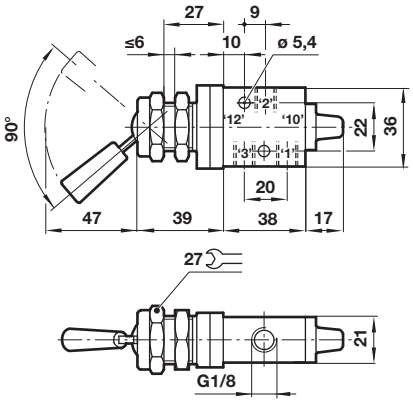
03033502, 03033532
3/2 Button (Palm) operated key return valve



Valve latches when button is depressed. To reset, turn key. This valve is suitable for panel mounting.

40

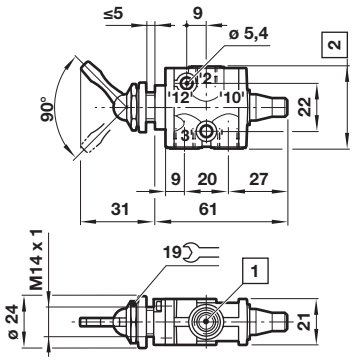
03029602
3/2 Toggle operated toggle return valve



Panel hole: Ø 22,5 mm
This valve is suitable for panel mounting.

41

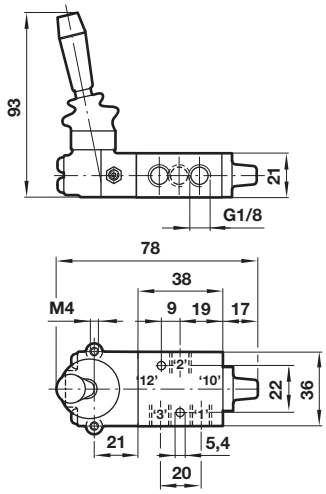
03040302, 03040332
3/2 Toggle operated spring return valve



This valve is suitable for panel mounting.
A fingertip extension is available for this valve, reference 07003301.

42

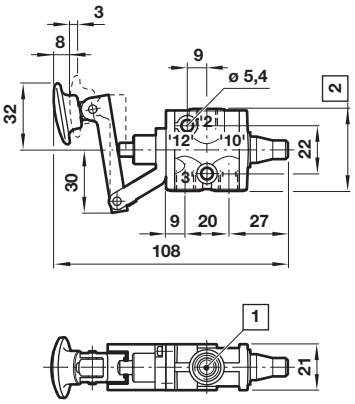
03043802 & 03043702
3/2 Lever operated spring return valve



Model 03043702 features a positive detent in each position and is suitable for panel mounting by means of a bezel kit, reference 03343764.
Panel hole: Ø 24 mm
Panel thickness: 8 mm maximum

43

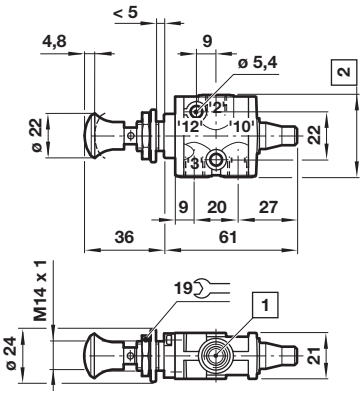
03042602, 03042632
3/2 Knob lever operated spring return valve



This valve is suitable for panel mounting.
Panel hole: Ø 24 mm;
Panel thickness: 8 mm maximum

44

03034502, 03034532
3/2 Knob operated spring return valve
03042502, 03042532
3/2 Knob operated knob return valve



This valve is suitable for panel mounting by means of an optional nut and washer, reference 03043000.

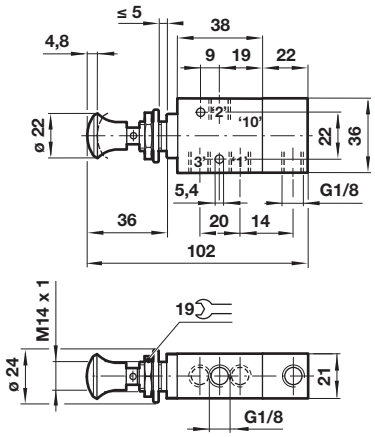
1 Port size G1/8 or ø 6 mm
2 37 mm for G1/8 and 45 mm for ø 6 mm

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Dimensions in mm
Projection/First angle

45

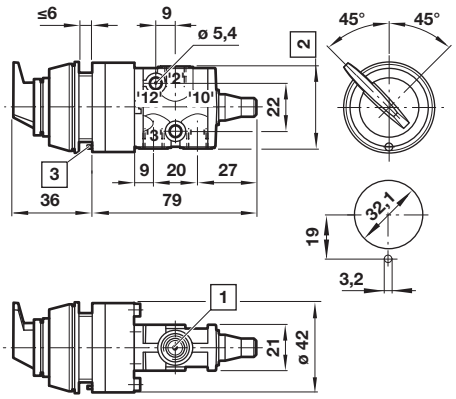
03042402
3/2 Knob operated, knob or pilot return valve



This valve is suitable for panel mounting by means of an optional nut and washer, reference 03 0430 00.

46

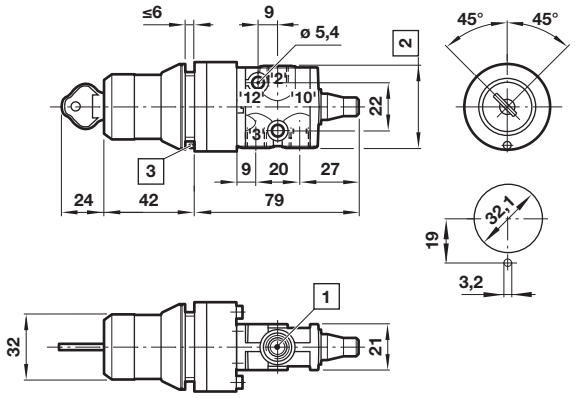
03041902, 03041923
3/2 Rotary knob operated rotary knob return valve



Switch shown in non-operated position
This valve is sutiable for panel mounting.

48

03041802801, 03041832801
3/2 Key operated key return valve

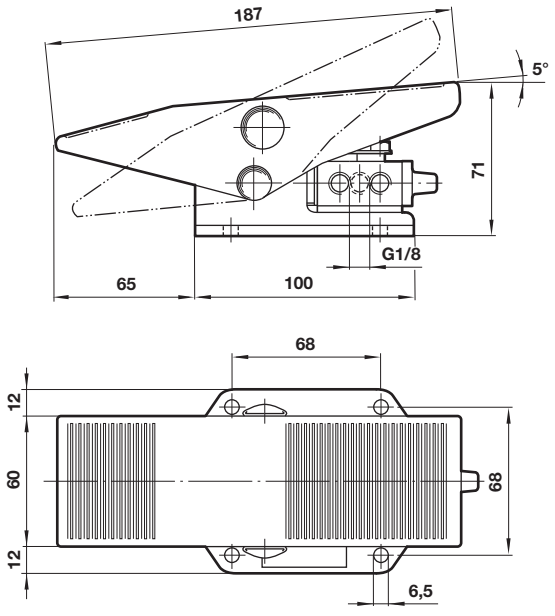


The key is removable in both positions.
Key slot shown in non-operated position.
Two keys are supplied.
This valve is suitable for panel mounting.

1 Port size G1/8 or ø 6 mm
2 37 mm for G1/8 and 45 mm for ø 6 mm

49

03048102
3/2 Pedal operated spring return valve
03048302
3/2 Pedal operated pedal return valve



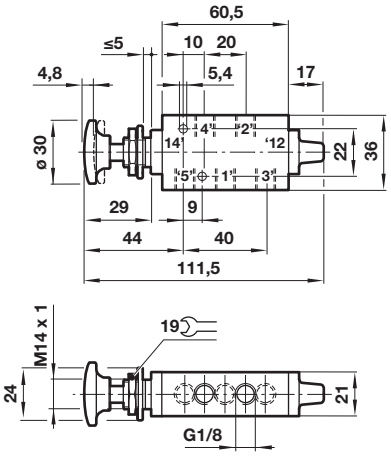
A foot guard is available for this valve, reference 03 0480 60.

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Dimensions in mm
Projection/First angle

50

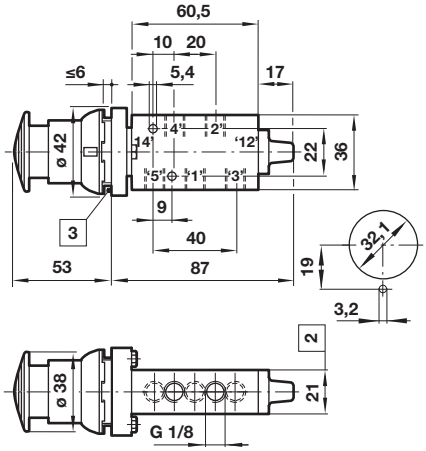
X3044402, X3044502, X3044602
5/2 Button (Palm) operated spring return valves



Operating force: 54 N
These valves are suitable for panel mounting by means of an optional nut and washer, reference 03043000; a shrouded panel mounting kit is also available, reference 03042900.

51

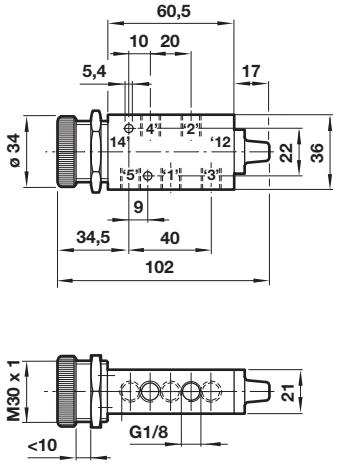
X3038602, X3038702, X3038802, X3046802
5/2 Button (Palm) operated spring return valves



These valves are suitable for panel mounting.

52

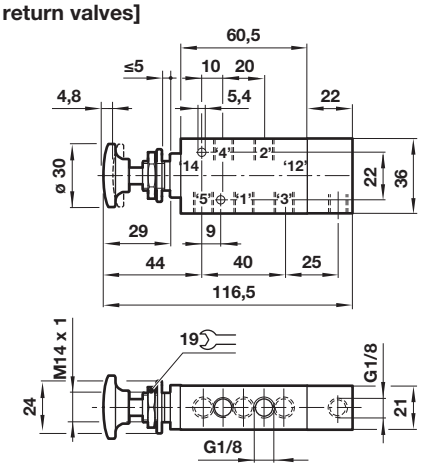
X3045402, X3045502, X3045602
5/2 Button (Shrouded) operated spring return valves



These valves are suitable for panel mounting.

53

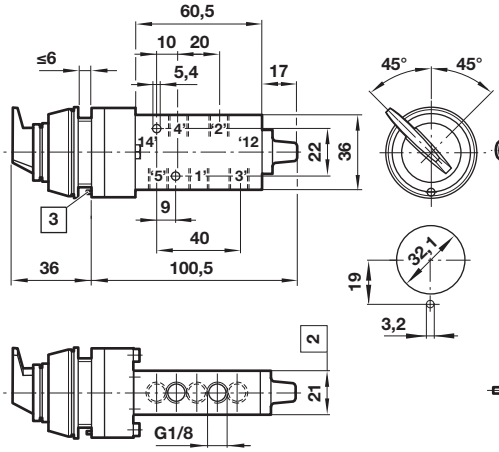
X3044802, X3046002, X3046102
5/2 Button (Palm) operated pilot return valves]



These valves are suitable for panel mounting by means of an optional nut and washer, reference 03043000; a shrouded panel mounting kit is also available, reference 03042900.

54

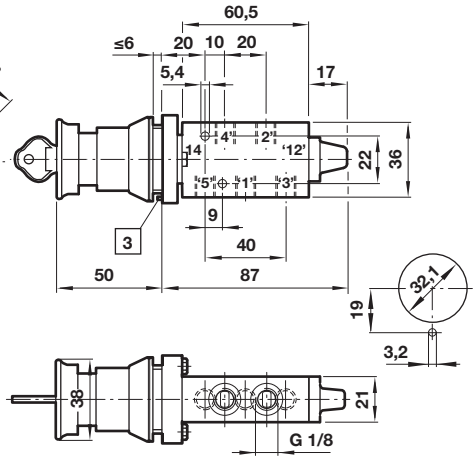
X3045902
5/2 Rotary knob operated rotary knob return valve



Switch shown in non-operated position
This valve is sutiable for panel mounting.

55

X3037502
5/2 Button (Palm) operated key return valve



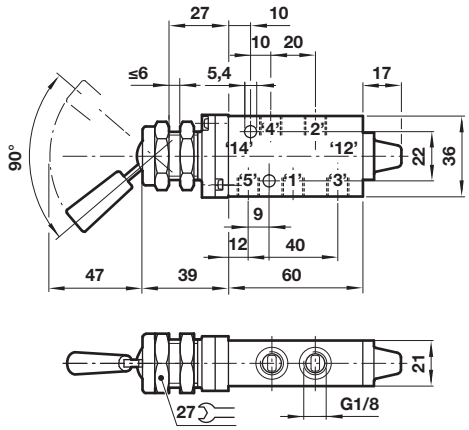
Valve latches when button is depressed. To reset, turn key. This valve is suitable for panel mounting.

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Dimensions in mm
Projection/First angle

56

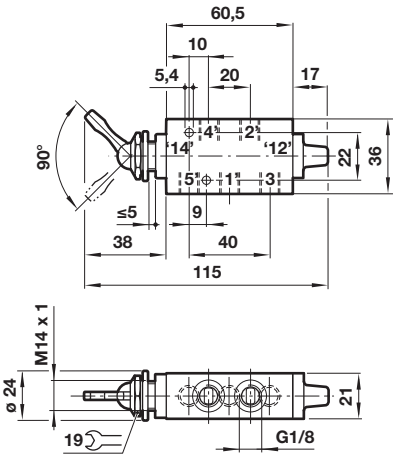
X3029602
5/2 Toggle operated toggle return valve



Panel hole: Ø 22,5 mm
This valve is suitable for panel mounting.

57

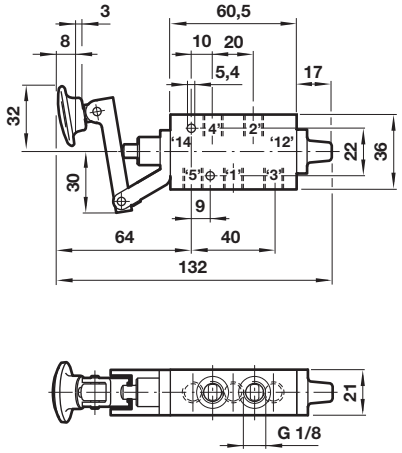
X3044302
5/2 Toggle operated spring return valve5



This valve is suitable for panel mounting.
A fingertip extension is available for use on this valve, reference 07 0033 01.

58

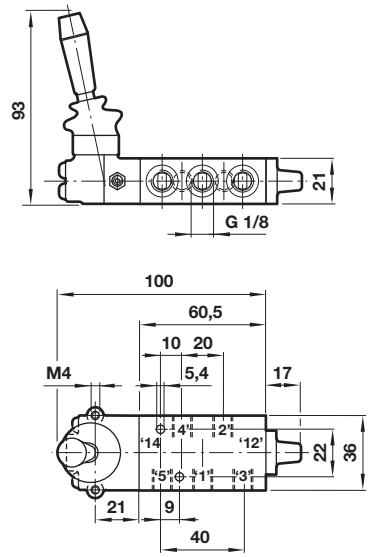
X3046602
5/2 Lever operated spring return valve



This valve is suitable for panel mounting.
Panel hole: Ø 24 mm;
Panel thickness: 8 mm maximum

59

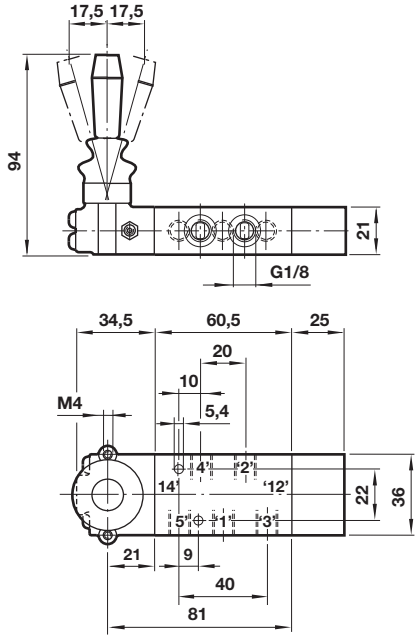
X3047802, X3047702
5/2 Lever operated valve



Both models are suitable for panel mounting by means of a bezel kit, reference 03 3437 64.
Panel hole: Ø 24 mm
Panel thickness: 8 mm maximum

60

X3343802, X3347802, X3343702, X3347702
5/3 Lever operated valves



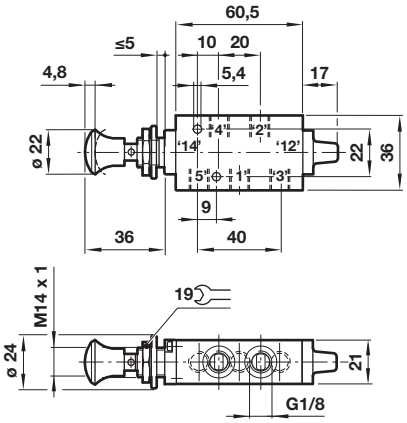
All models are suitable for panel mounting, by means of a bezel kit, reference 03 3437 64.
Panel hole: Ø 24 mm
Panel thickness: 8mm maximum

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Dimensions in mm
Projection/First angle

61

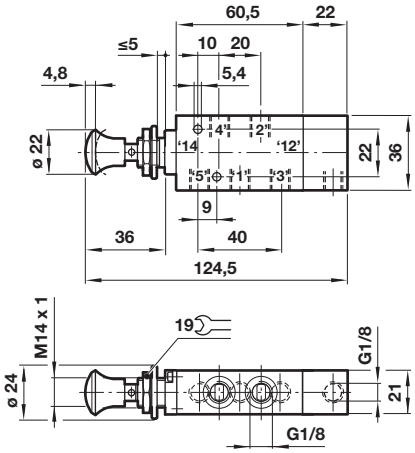
X3046502
5/2 Knob operated knob return valve



This valve is suitable for panel mounting by means of an optional nut and washer, reference 03043000.

62

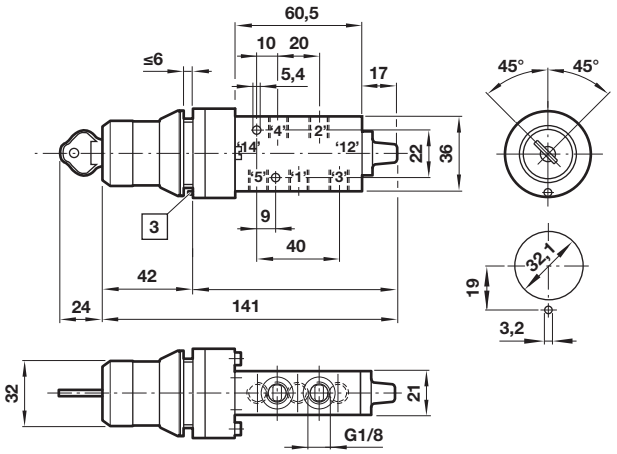
X3046402
5/2 Knob operated, knob or pilot return valve



These valves are suitable for panel mounting by means of an optional nut and washer, reference 03043000

64

X3045802801
5/2 Key operated key return valve



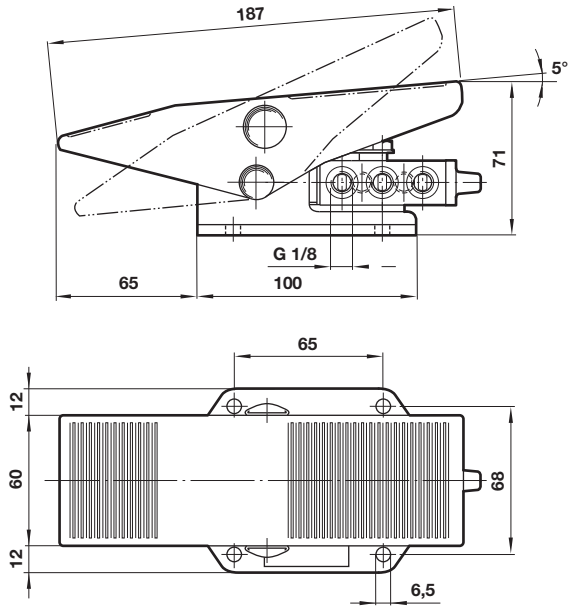
The key is removable in both positions.
Key slot shown in non-operated position.
Two keys are supplied.
This valve is suitable for panel mounting.

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Dimensions in mm
Projection/First angle

65

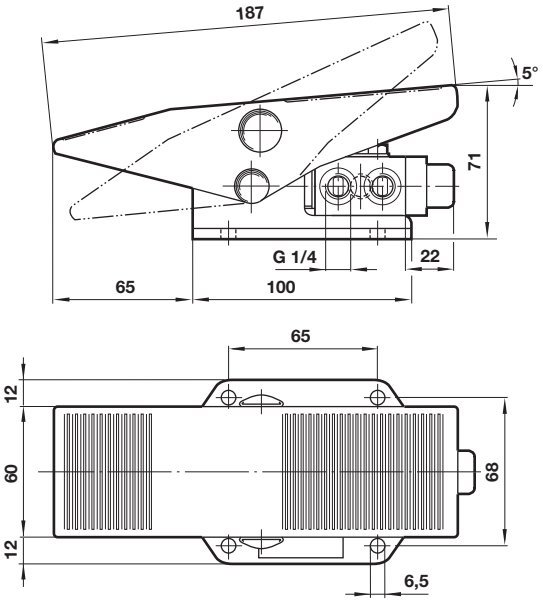
X3048202
5/2 Pedal operated spring return valve
X3048402
5/2 Pedal operated pedal return valve



A foot guard is available for this valve, reference 03048060.

66

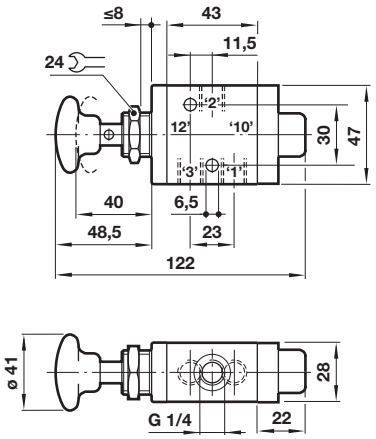
03068102
3/2 Pedal operated spring return valve
03068302
3/2 Pedal operated pedal return valve



A foot guard is available for this valve, reference 03048060.

67

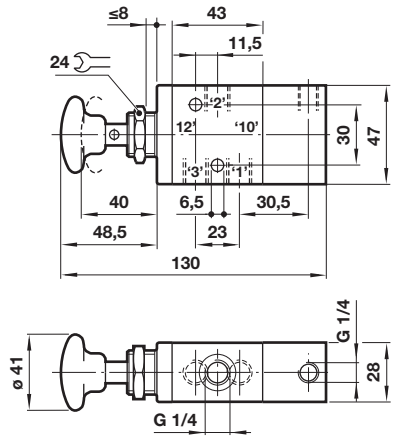
03060402
3/2 Button operated spring return valve



This valve is suitable for panel mounting and includes a nut and washer.
Panel hole: Ø 21 mm

68

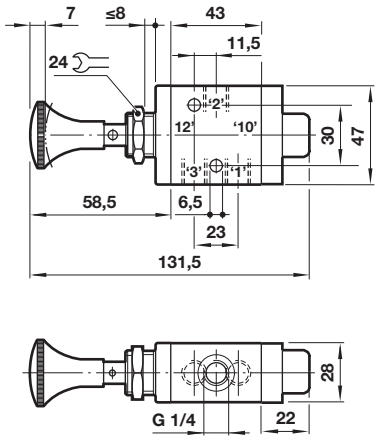
03060802
3/2 Button operated pilot return valve



This valve is suitable for panel mounting and includes a nut and washer.
Panel hole: Ø 21 mm

69

03062502
3/2 Knob operated knob return valve



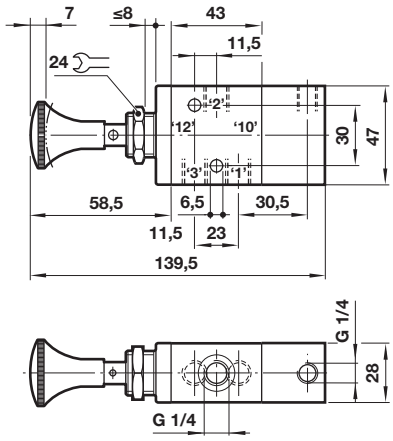
This valve is suitable for panel mounting and includes a nut and washer.
Panel hole: Ø 21 mm

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Dimensions in mm
Projection/First angle

70

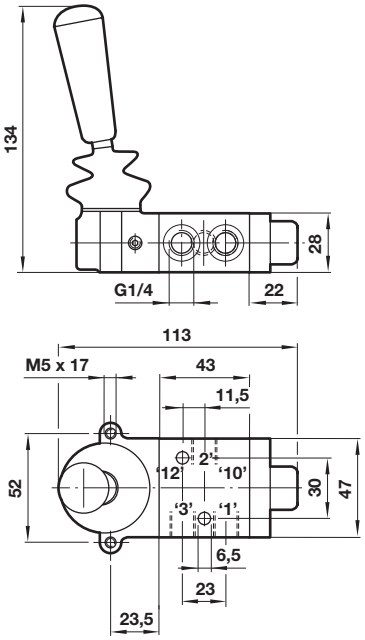
03062702
3/2 Knob operated, knob or pilot return valve



This valve is suitable for panel mounting and includes a nut and washer.
Panel hole: Ø 21 mm

71

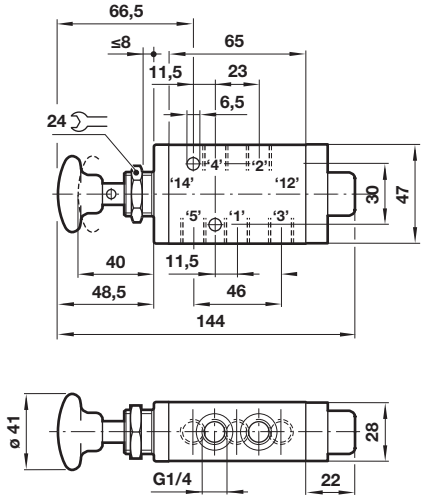
03063802, 03063702
3/2 Lever operated valve



Model 03063702 features a positive detent in each position.
Both models are suitable for panel mounting by means of a bezel kit,reference 03363764.
Panel hole: Ø 31 mm;
Panel thickness: 8 mm maximum

72

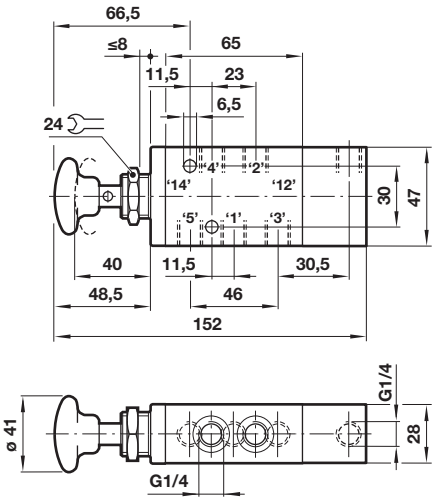
X3064402
5/2 Button operated spring return valve



This valve is suitable for panel mounting and includes a nut and washer.
Panel hole: Ø 21 mm

73

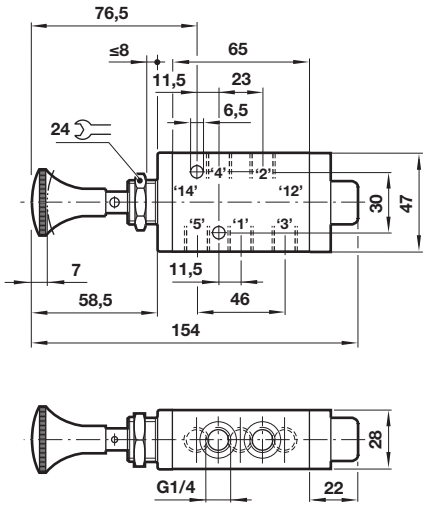
X3064802
5/2 Button operated pilot return valve



This valve is suitable for panel mounting and includes a nut and washer.
Panel hole: Ø 21 mm

74

X3066502
5/2 Knob operated knob return valven



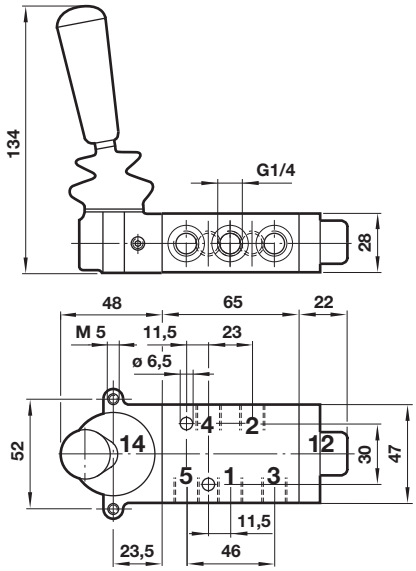
This valve is suitable for panel mounting and includes a nut and washer.
Panel hole: Ø 21 mm

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Dimensions in mm
Projection/First angle

75

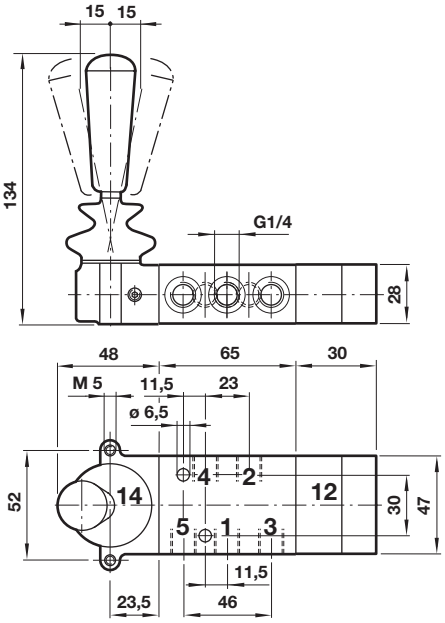
X3067802, X3067702
5/2 Lever operated valve



Model X3067702 features a positive detent in each position.
Both models are suitable for panel mounting by means of a bezel kit, reference 03363764.
Panel hole: Ø 31 mm;
Panel thickness: 8 mm maximum,

76

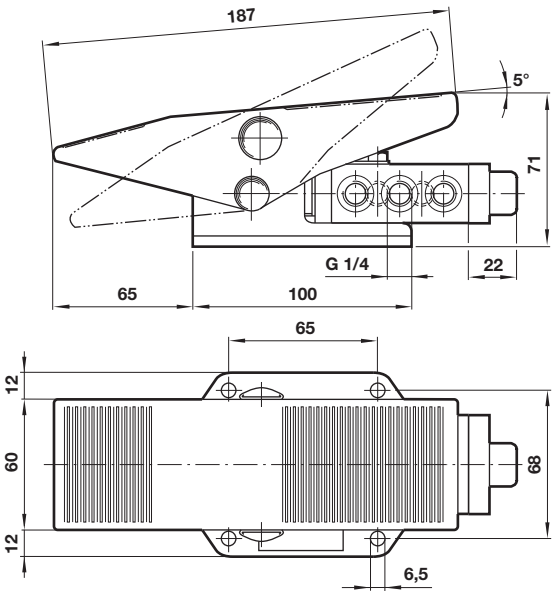
X3363802, X3367802, X3363702, X3367702
5/3 Three position lever operated valves



These valves are suitable for panel mounting by means of a bezel kit, reference 03363764.
Panel hole: Ø 31 mm
Panel thickness: 8 mm maximum

77

X3068202
5/2 Pedal operated spring return valve
X3068402
5/2 Pedal operated pedal return valve



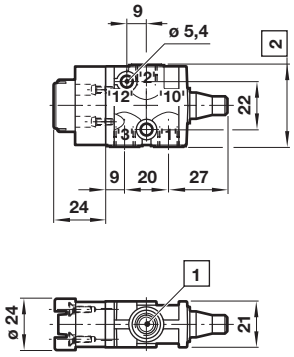
A foot guard is available for this valve, reference 03048060.

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Dimensions in mm
Projection/First angle

78

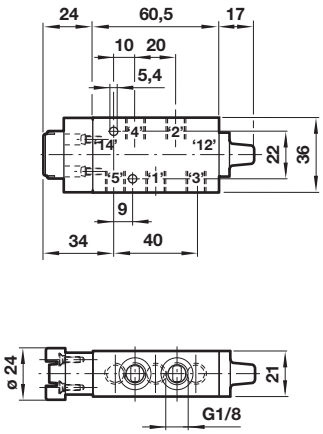
03029502, 03029532
3/2 Adapter valve



This valve is for use with standard electrical style operating heads.
For details see below.

79

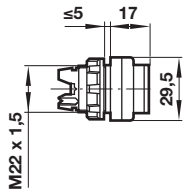
X3039502
5/2 Adapter valve



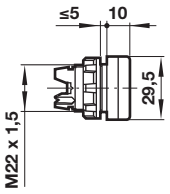
This valve is for use with standard electrical style operating heads.
For details see below.

Operating heads for use with G1/8, 3/2 and 5/2 Adaptor valves
Panel hole: Ø 22,5 mm
Panel thickness: 6 mm maximum

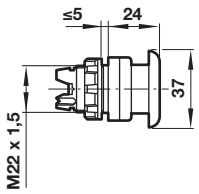
V11783-C01 (pink)
V11783-C02 (green)
V11783-C03 (black)
Button (palm) operated, spring return



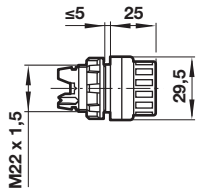
V11783-C04 (pink)
V11783-C05 (green)
V11783-C06 (black)
Button (shrouded) operated, spring return



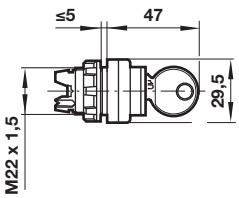
V11783-C07 (red)
V11783-C08 (green)
Button (mushroom) operated, spring return



V11783-C10
Rotary knob operated rotary knob return



V11783-C12
Key operated key return



Warning

These products are intended for use in industrial compressed air systems only. Do not use these products where pressures and temperatures can exceed those listed under **»Technical features/data«**.
Before using these products with fluids other than those specified, for non-industrial applications, life-support systems or other applications not within published specifications, consult IMI NORGREN.

Through misuse, age, or malfunction, components used in fluid power systems can fail in various modes.

The system designer is warned to consider the failure modes of all component parts used in fluid power systems and to provide adequate safeguards to prevent personal injury or damage to equipment in the event of such failure.
System designers must provide a warning to end users in the system instructional manual if protection against a failure mode cannot be adequately provided.
System designers and end users are cautioned to review specific warnings found in instruction sheets packed and shipped with these products.

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