

030, X30, X33 (SUPER X), 3/2, 5/2 or 5/3 Manual and mechanical actuated spool valves

- 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:

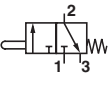
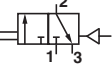
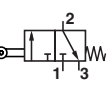
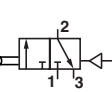
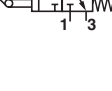
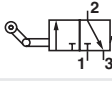
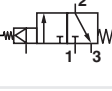
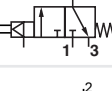
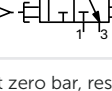
The PIF fittings are suitable for PA
11 or 12, PU
(92 to 98 shore) and other
plasticised or unplasticised tubing
which conforms to the tolerances
specified in BS5409, Part 1, 1976,
light and normal duty, DIN 73378,
DIN74234, NFE 49-100. Tube is to
be cut square and free of burrs.

Materials:

Plastic version for 3/2 way valves:
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

Technical data

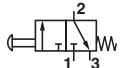
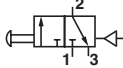
3/2-mechanical valves

Symbol	Port size	Actuation	Body Material	Operating pressure (bar)	Operating force (N)	Weight (kg)	Spare kit	Dimension No.	Model
	G1/8	Plunger/spring	PA6	-0,9 ... 10	31	0,06	03840802	1	03040002
	G1/8	Plunger/spring	Zinc	-0,9 ... 10	31	0,14	03840802	1	03M40002
	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
	G1/8	Roller/spring	Zinc	-0,9 ... 10	31	0,14	03840802	3	03M40202
	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
	G1/8	Roller lever/spring	Zinc	-0,9 ... 10	31	0,17	03840802	5	03M41102
	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
	G1/8	Roller lever (heavy duty) /spring	Zinc	-0,9 ... 10	31	0,21	03840802	7	03M29302
	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
	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	0,10	03843202	11	03043202
	G1/8	Antenna/spring	Zinc	-0,9 ... 10	0,3	0,18	03843202	11	03M43202
	ø 6 mm	Antenna/spring	PA6	-0,9 ... 10	0,3	0,11	03843202	11	03043232
	G1/8	Sensitive roller/spring	Zinc	-0,9 ... 10	1	0,25	03847302	8	03042302
	G1/8	Push / Pull with visual indicator	Zinc	-0,9 ... 10 *1	18	0,25	03840802	80	03035103

*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.

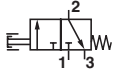
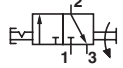
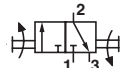
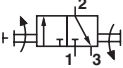
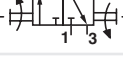
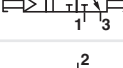
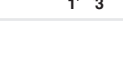
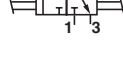
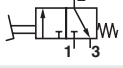
3/2-manual valves

Symbol	Port size	Actuation	Body Material	Colour	Operating pressure (bar)	Operating force (N)	Weight (kg)	Spare kit	Dimension No.	Model
	G1/8	Button/spring	PA6	Black	-0,9 ... 10	31	0,07	03840802	33	03040402
	G1/8	Button/spring	Zinc	Black	-0,9 ... 10	31	0,15	03840802	33	03M40402
	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
	G1/8	Button/spring	Zinc	Green	-0,9 ... 10	31	0,15	03840802	33	03M40502
	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
	G1/8	Button/spring	Zinc	Red	-0,9 ... 10	31	0,15	03840802	33	03M40602
	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.

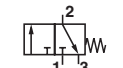
3/2-manual valves

Symbol	Port size	Actuation	Body Material	Colour	Operating pressure (bar)	Operating force (N)	Weight (kg)	Spare kit	Dimension No.	Model
	G1/8	Button (shrouded)/spring	PA6	Black	-0,9 ... 10	31	0,11	03840802	36	03041402
	G1/8	Button (shrouded)/spring	Zinc	Black	-0,9 ... 10	31	TBA	03840802	36	03M41402
	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
	G1/8	Button (shrouded)/spring	Zinc	Green	-0,9 ... 10	31	TBA	03840802	36	03M41502
	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
	G1/8	Button (shrouded)/spring	Zinc	Red	-0,9 ... 10	31	TBA	03840802	36	03M41602
	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
	G1/8	Emergency stop/twist reset	Zinc	Red	-0,9 ... 10	18	TBA	03840802	37	03M42802
	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
	G1/8	Rotary knob/set reset	Zinc	Black	-0,9 ... 10	—	TBA	03840802	46	03M41902
	ø 6 mm	Rotary knob/set reset	PA6	Black	-0,9 ... 10	—	0,15	03840802	46	03041932
	G1/8	Button (palm)/key	PA6	Red	-0,9 ... 10	31	0,20	03840802	39	03033502801
	ø 6 mm	Button (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
	G1/8	Knob/knob	Zinc	Black	-0,9 ... 10	18	TBA	03840802	44	03M42502
	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
	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
	G1/8	Toggle/toggle	Zinc	Black	-0,9 ... 10	28	TBA	03840802	41	03M40302
	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

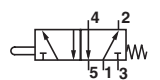
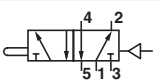
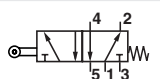
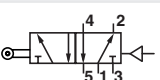
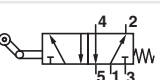
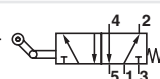
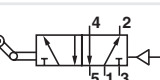
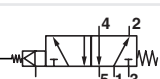
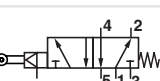
*3) Reset pressure: 4 bar minimum

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)	Spare 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

5/2-mechanical valves

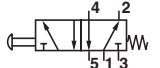
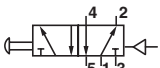
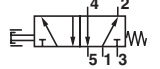
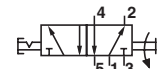
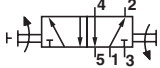
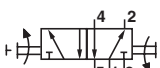
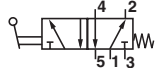
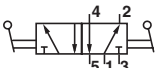
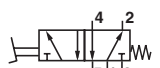
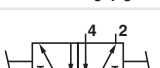
Symbol	Port size	Actuation	Operating pressure (bar)	Operating force (N)	Weight (kg)	Spare kit	Dimension No.	Model
	G1/8	Plunger/spring	-0,9 ... 10	54	0,25	03840802	12	X3044002
	G1/4	Plunger/spring	-0,9 ... 10	62	0,46	03860202	28	X3064002
	G1/8	Plunger/pilot	-0,9 ... 10	22 *1)	0,31	03840802	13	X3045702
	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 operating pressure for pilot function is the minimum pressure to operate the valve. The valve may switch below this pressure.

5/2-manual valves

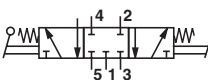
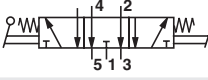
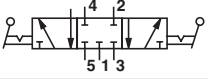
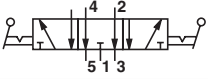
Symbol	Port size	Actuation	Colour	Operating pressure (bar)	Operating force (N)	Weight (kg)	Spare kit	Dimension No.	Model
	G1/8	Button (palm)/spring	Black	-0,9 ... 10	54	0,26	03840802	50	X3044402
	G1/8	Button (palm)/spring	Green	-0,9 ... 10	54	0,26	03840802	50	X3044502
	G1/8	Button (palm)/spring	Red	-0,9 ... 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	Lever/lever	Black	-0,9 ... 10	13	0,40	03840802	59	X3047702
	G1/4	Lever/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 operating 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)	Spare kit	Dimension No.	Model
	G1/8	Plunger/spring	-0,9 ... 10	54	0,25	03840802	79	X3039502

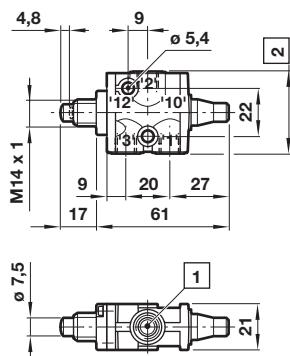
5/3-manual valves

Symbol	Port size	Actuation	Colour	Function	Operating pressure (bar)	Operating force (N)	Weight (kg)	Spare 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

Dimensions

1

03040002, 03040032, 03M40002
3/2 Plunger actuated spring return valve

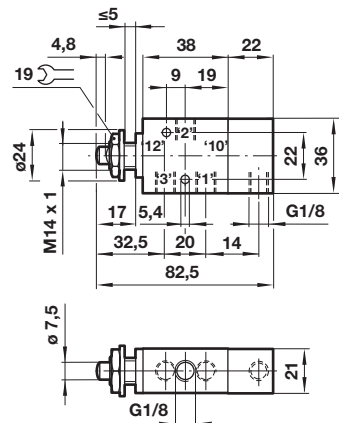


The plunger on this valve is designed for axial loading only.

Nut and mounting washer kit supplied as optional extra part number 03 0430 00

2

03041702
3/2 Plunger actuated pilot return valve



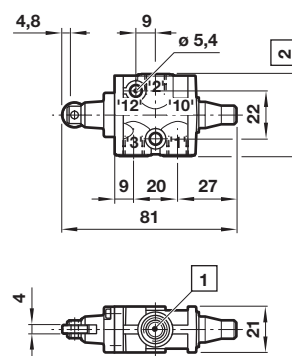
Full movement: 4,8 mm

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, 03M40202
3/2 Roller actuated spring return valve



Maximum recommended cam rise: 4,5 mm

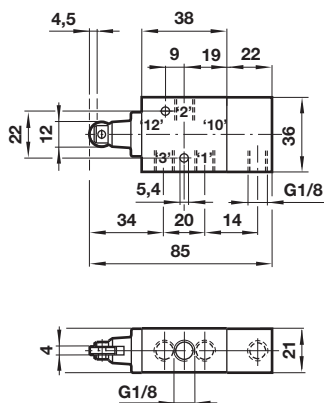
Cam angle of approach: 30° maximum

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

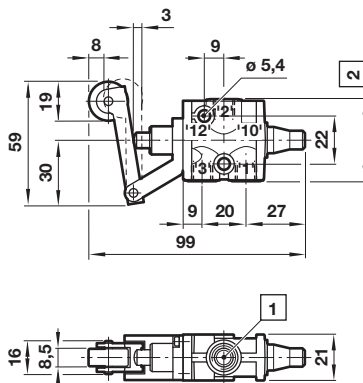
Cam angle of approach: 30° maximum

Cam speed: 8 m/min. maximum

Operating speed: 300 cpm

5

03041102, 03041132, 03M41102
3/2 Roller lever actuated spring return valve



Operating travel: 8 mm

Over-travel: 3 mm

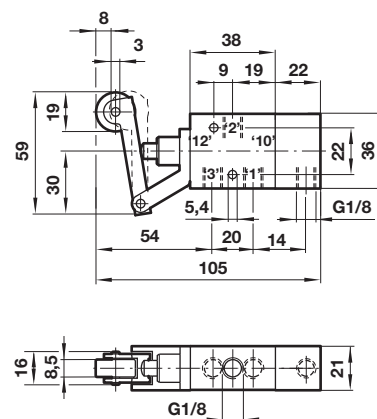
Cam angle of approach: 45° maximum

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

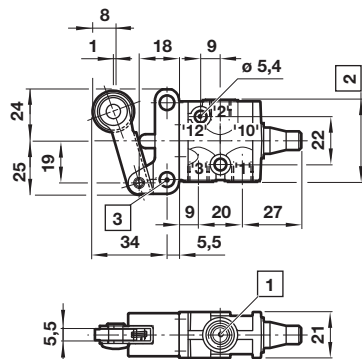
Operating speed: 300 cpm

1 Port size G1/8 or Ø 6 mm

2 37 mm for G1/8 and 45 mm for Ø 6 mm

7

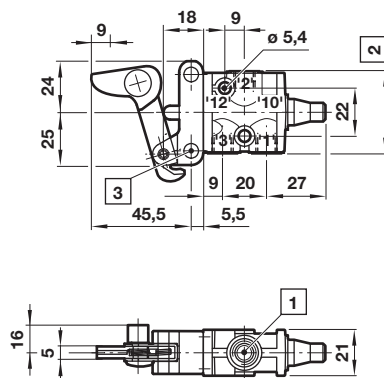
03029302, 03029332, 03M29302
3/2 Heavy duty roller lever actuated spring return valve



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

10

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

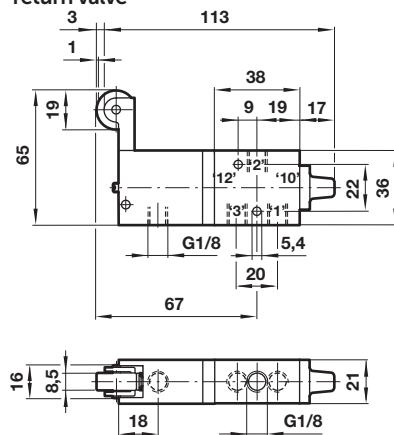


Cam rise: 9 mm
Cam angle of approach: 90° maximum
Cam speed: 2 m/min. maximum
Operating speed: 120 cpm

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

8

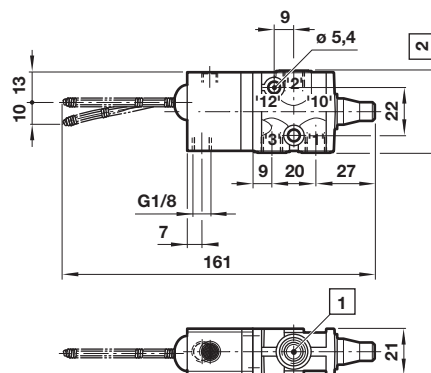
03042302
3/2 Sensitive roller lever actuated spring return valve



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

11

03043202, 03043232, 03M43202
3/2 Antenna actuated spring return valve

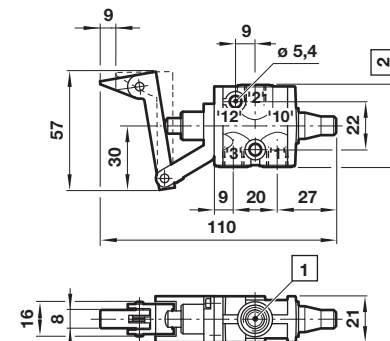


Operating movement:
10 mm minimum in any direction.

9

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

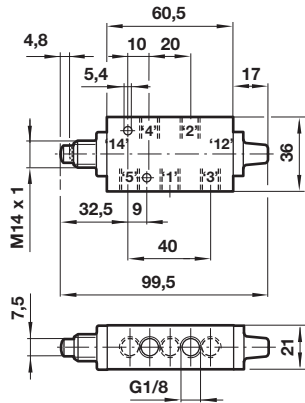
Dimensions in mm
Projection/First angle



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

12

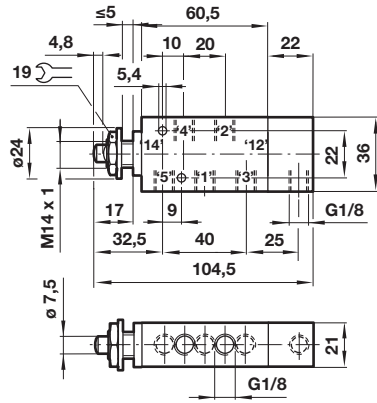
X3044002
5/2 Plunger actuated spring return valve



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

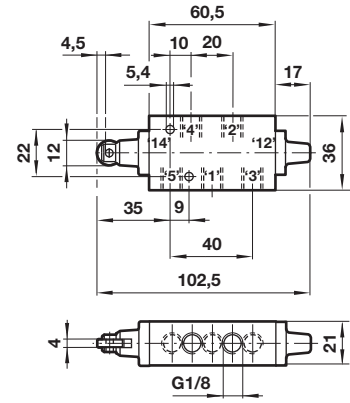


Full movement: 4,8 mm
Panel hole: Ø 15 mm
The plunger on this valve is designed for axial mounting only. This valve can be panel mounted.

14

X3044202
5/2 Roller actuated spring return valve

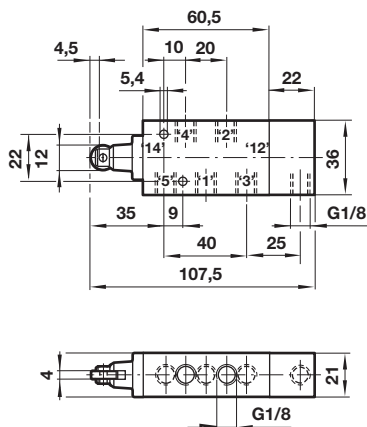
Dimensions in mm
Projection/First angle



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

15

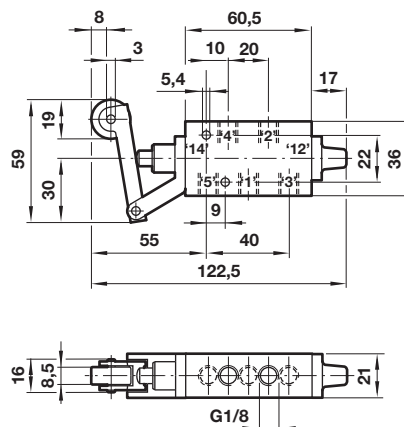
X3044902
5/2 Roller actuated pilot return valve



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

16

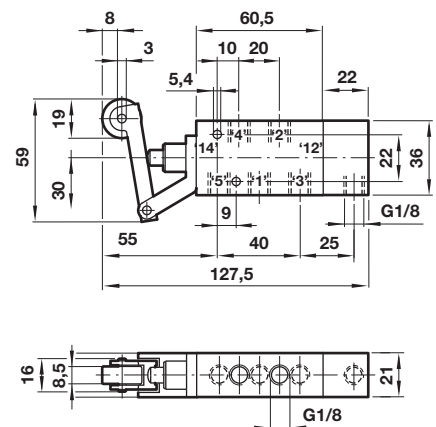
X3045102
5/2 Roller lever actuated spring return valve



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

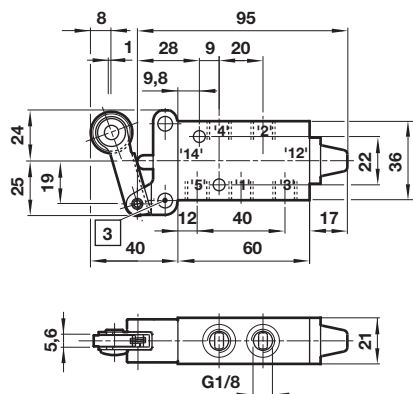
X3046702
5/2 Roller lever actuated pilot return valve



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

18

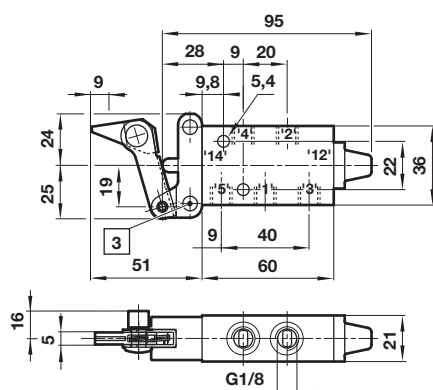
X3039302
5/2 Heavy duty roller lever actuated spring return valve



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

21

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

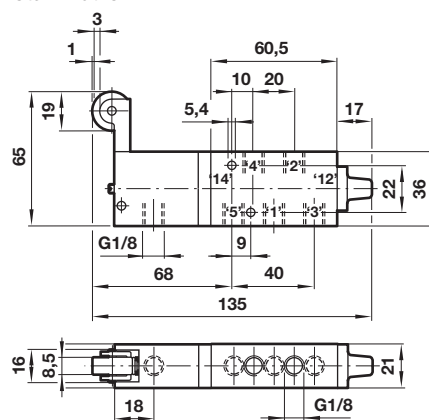


Cam rise: 9 mm
Cam angle of approach: 90° maximum
Cam speed: 2 m/min. maximum
Operating speed: 120 cpm

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

19

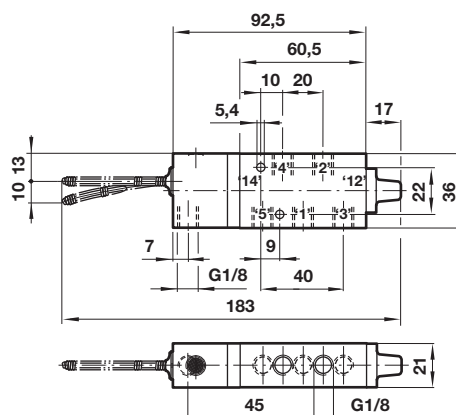
X3046302
5/2 Sensitive roller lever actuated spring return valve



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

22

X3047202
5/2 Antenna actuated spring return valve

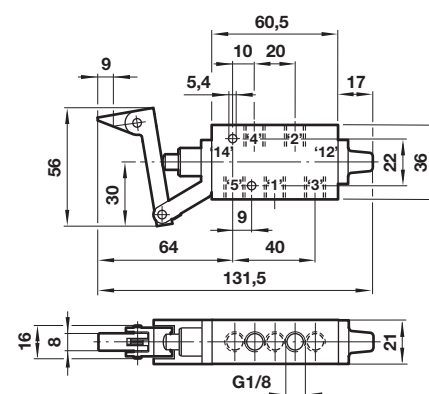


Operating movement: 10 mm minimum in any direction.

20

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

Dimensions in mm
Projection/First angle

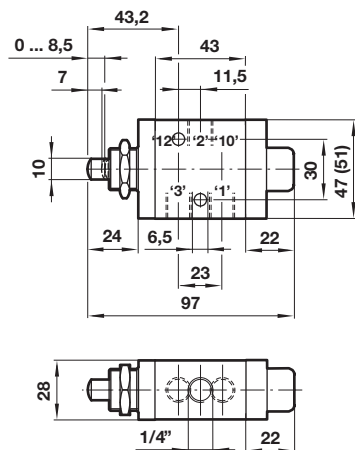


Cam rise: 9 mm
Cam angle of approach: 90° maximum
Cam speed: 2 m/min. maximum
Operating speed: 120 cpm

23

03060002

3/2 Plunger actuated spring return valve



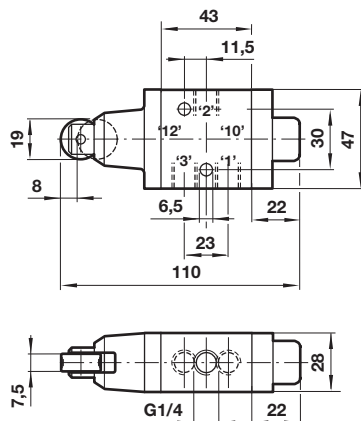
Panel hole: Ø 21 mm

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

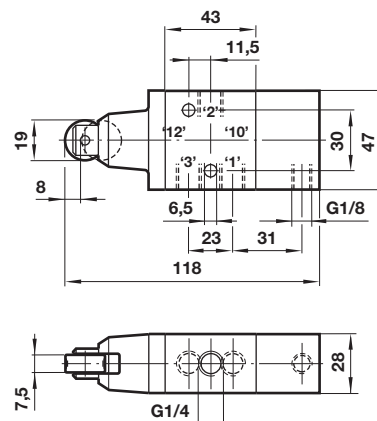
Operating speed: 200 cpm

25

03060902

3/2 Roller actuated pilot return valve

Dimensions in mm
Projection/First angle



Cam angle of approach: 45° maximum

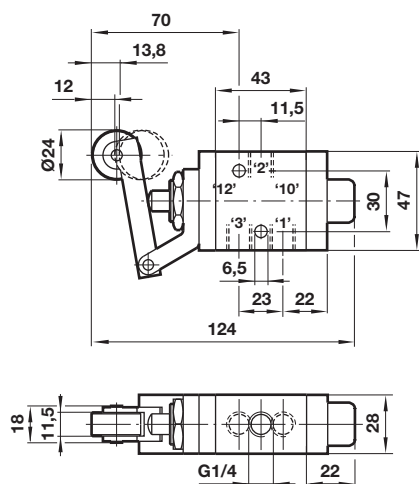
Cam speed: 6 m/min. maximum

Operating speed: 200 cpm

26

03061102

3/2 Roller lever actuated spring return valve



Cam angle of approach: 45° maximum

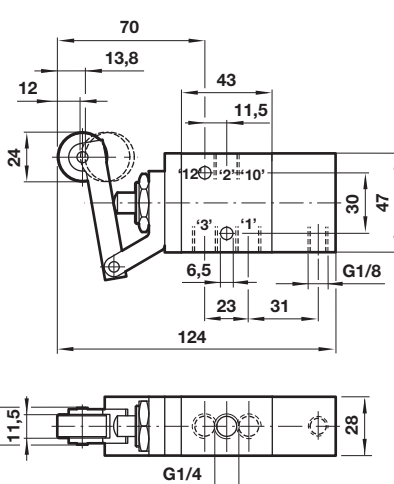
Cam speed: 5 m/min. maximum

Operating speed: 150 cpm

27

03062402

3/2 Roller lever actuated pilot return valve



Cam angle of approach: 45° maximum

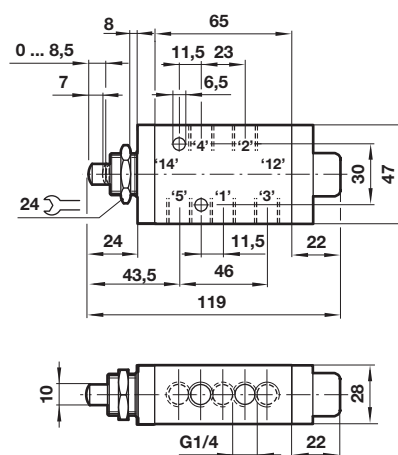
Cam speed: 5 m/min. maximum

Operating speed: 150 cpm

28

X3064002

5/2 Plunger actuated spring return valve

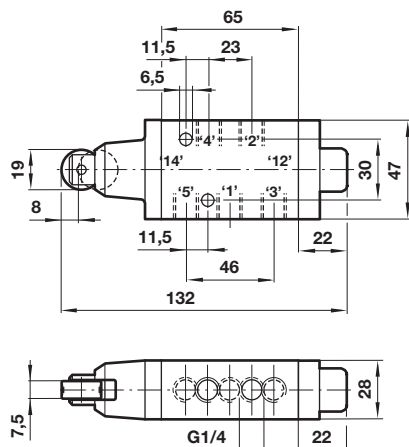


Panel hole: Ø 21 mm

The plunger on this valve is designed for axial loading only.

29

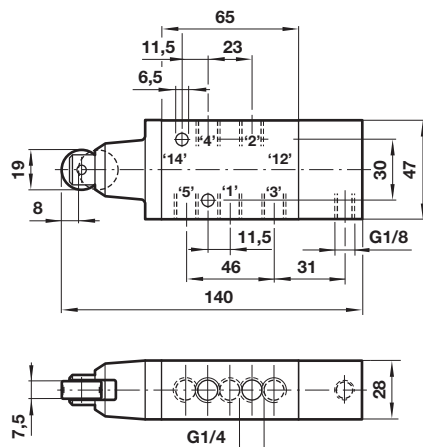
X3064202
5/2 Roller actuated spring return valve



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

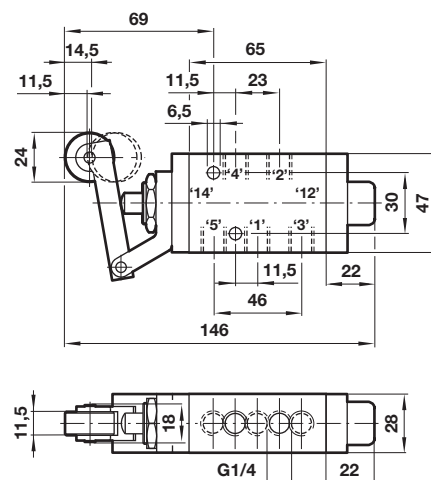


Cam angle of approach: 45° maximum
Cam speed: 6 m/min. maximum
Operating speed: 200 cpm

31

X3065102
5/2 Roller lever actuated spring return valve

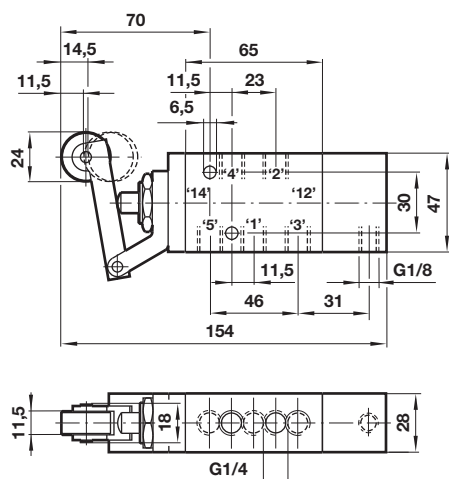
Dimensions in mm
Projection/First angle



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

32

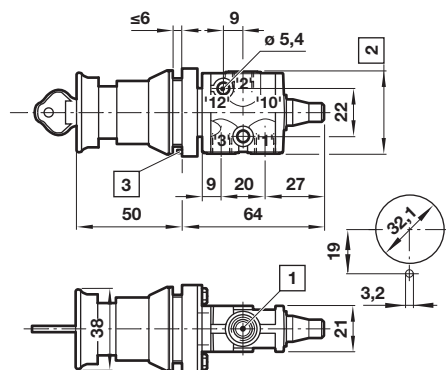
X3066402
5/2 Roller lever actuated pilot return valve



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

39

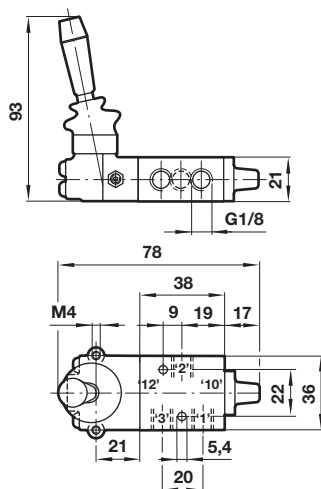
03033502, 03033532
3/2 Button (Palm) operated key return valve



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

42

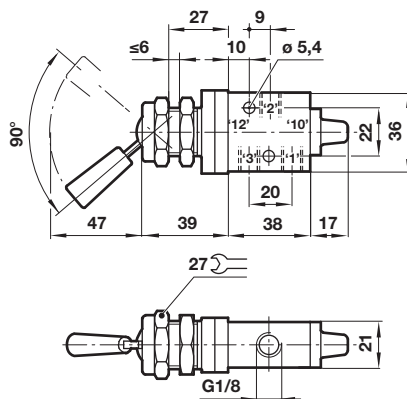
03043802 & 03043702
3/2 Lever operated spring return valve



This valve is suitable for panel mounting..
Panel hole: Ø 24 mm

40

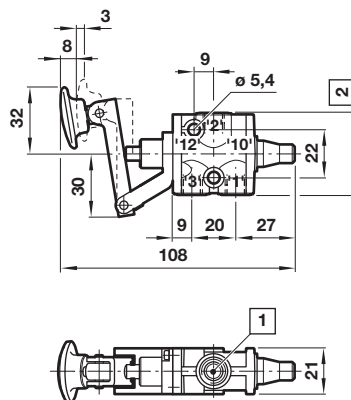
03029602
3/2 Toggle operated toggle return valve



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

43

03042602
3/2 Knob lever operated spring return valve



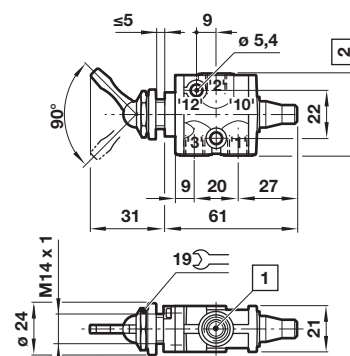
This valve is suitable for panel mounting.
Panel hole: Ø 24 mm
Panel thickness: 8 mm maximum

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

41

03040302, 03040332
3/2 Toggle operated spring return valve

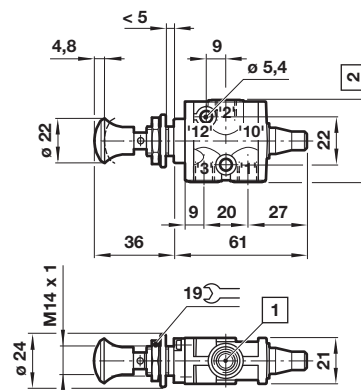
Dimensions in mm
Projection/First angle



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

44

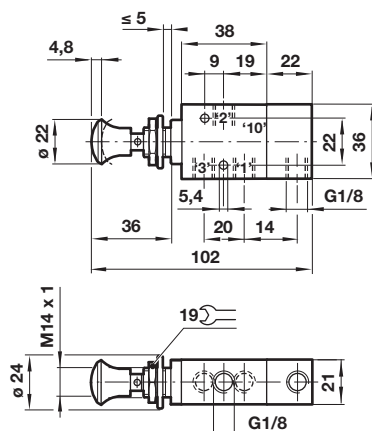
03034502, 03034532
3/2 Knob operated spring return valve
03042502, 03042532
3/2 Knob operated knob return valve



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

45

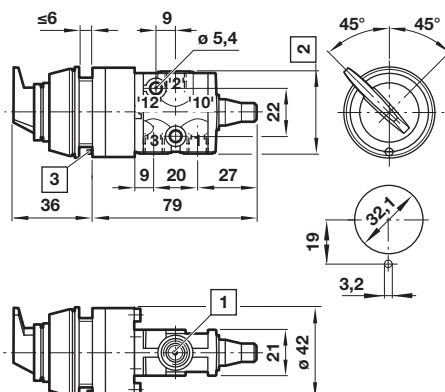
03042402
3/2 Knob operated, knob or pilot
return valve



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



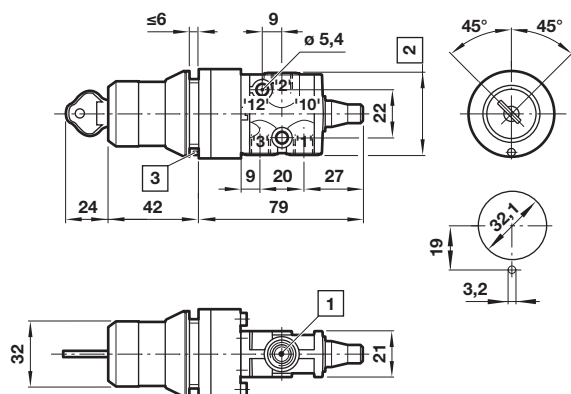
Switch shown in non-operated position
This valve is suitable for panel mounting.

Dimensions in mm
Projection/First angle



48

03041802801, 03041832801
3/2 Key operated key return valve

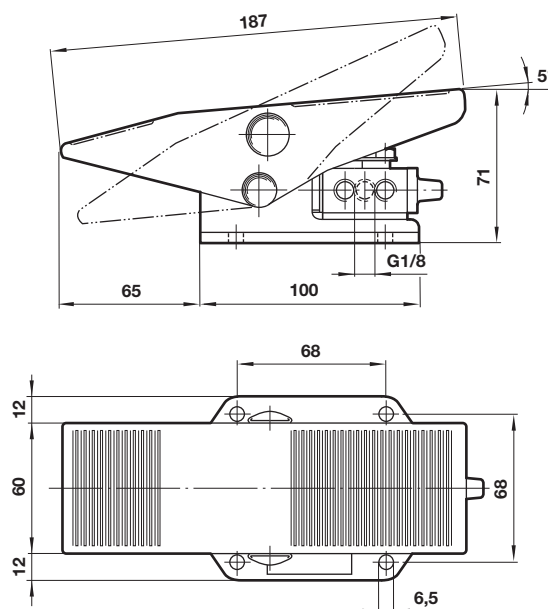


The key is removable in both positions.
Key slot shown in non-operated position.
Two keys are supplied.
This valve is suitable for panel mounting.

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

49

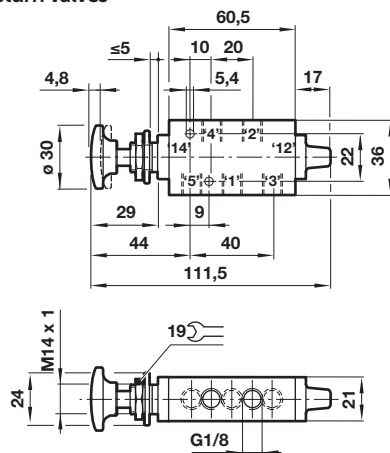
03048102
3/2 Pedal operated spring return valve
03048302
3/2 Pedal operated pedal return valve



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

50

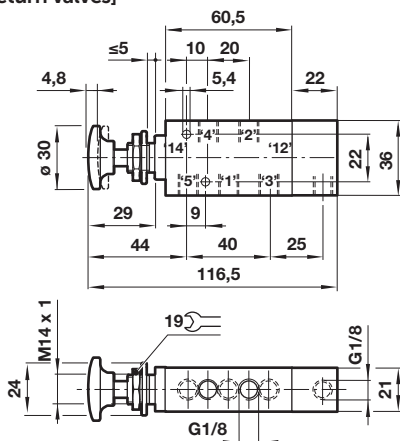
X3044402, X3044502, X3044602
5/2 Button (Palm) operated spring
return valves



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.

53

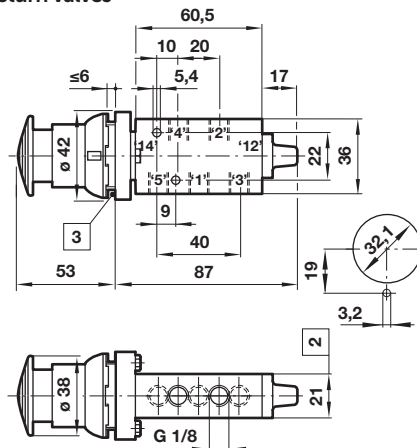
X3044802, X3046002, X3046102
5/2 Button (Palm) operated pilot
return valves]



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.

51

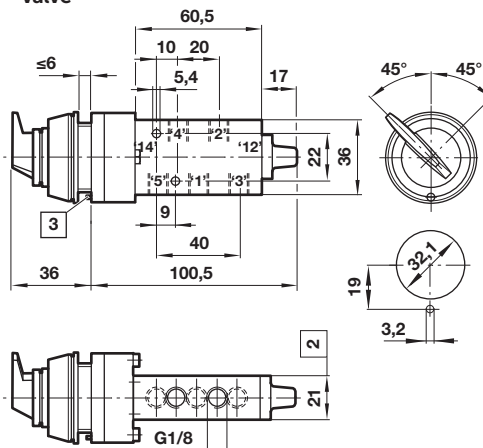
X3038602, X3038702, X3038802, X3046802
5/2 Button (Palm) operated spring
return valves



These valves are suitable for panel mounting.

54

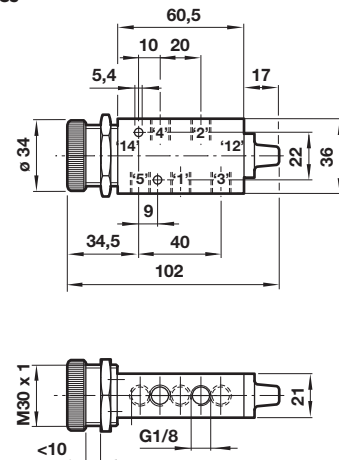
X3045902
5/2 Rotary knob operated rotary knob return
valve



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

52

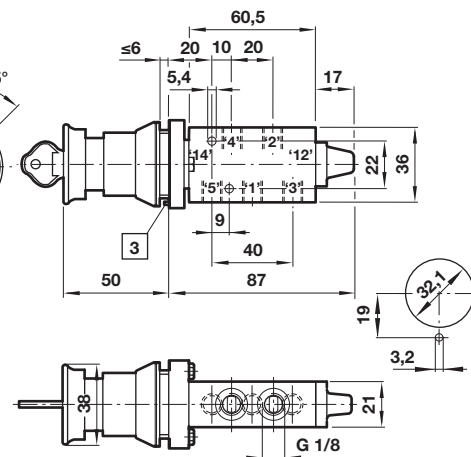
X3045402, X3045502, X3045602
5/2 Button (Shrouded) operated spring return
valves



These valves are suitable for panel mounting.

55

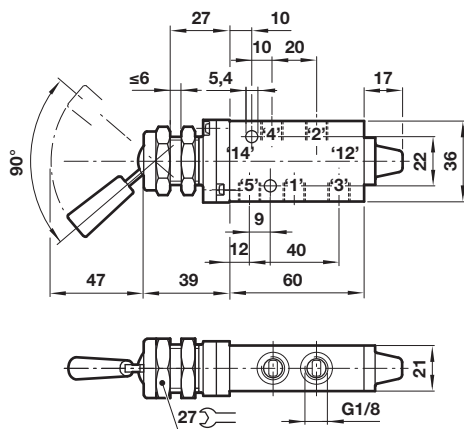
X3037502
5/2 Button (Palm) operated key return valve



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

56

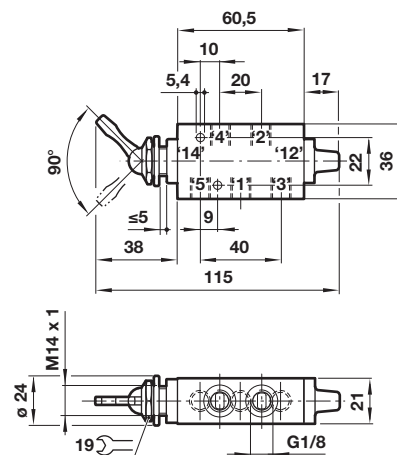
X3029602
5/2 Toggle operated return valve



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

57

X3044302
5/2 Toggle operated spring return valve5

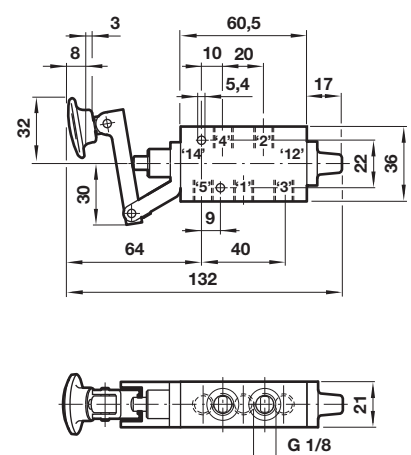


This valve is suitable for panel mounting.
A fingertip extension is available for use
on this valve, reference 07 0033 01.

58

X3046602
5/2 Lever operated spring return valve

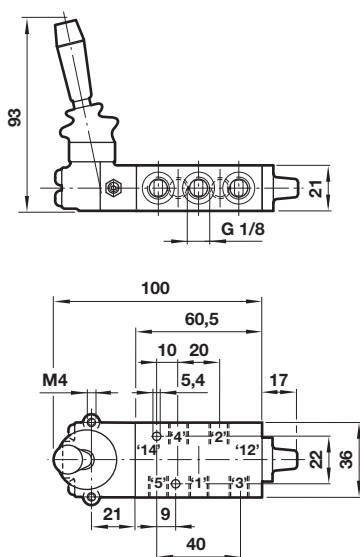
Dimensions in mm
Projection/First angle



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

59

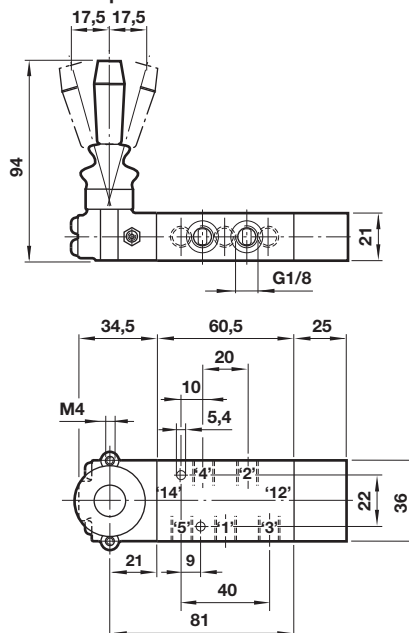
X3047802, X3047702
5/2 Lever operated valve



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

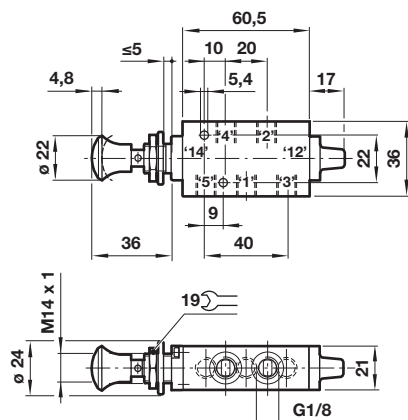
X3343802, X3347802, X3343702, X3347702
5/3 Lever operated valves



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

61

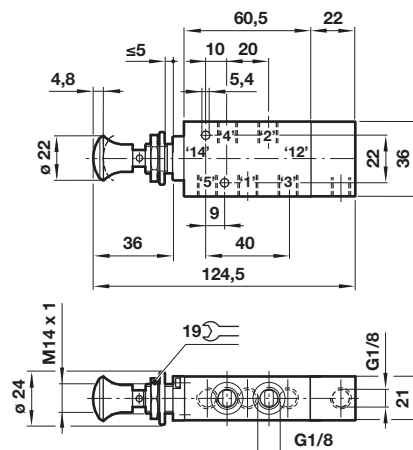
X3046502
5/2 Knob operated knob return valve



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

62

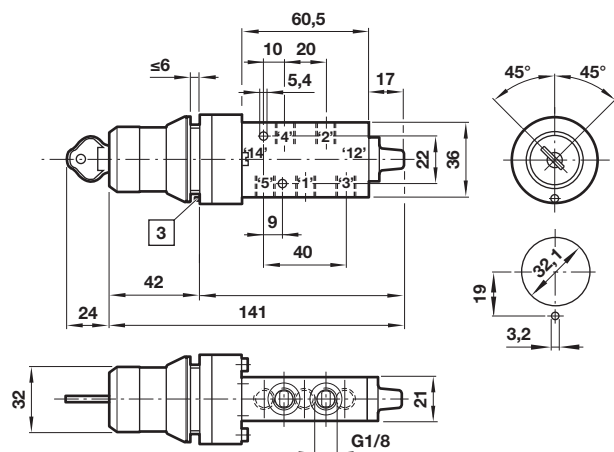
X3046402
5/2 Knob operated, knob or pilot return valve



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



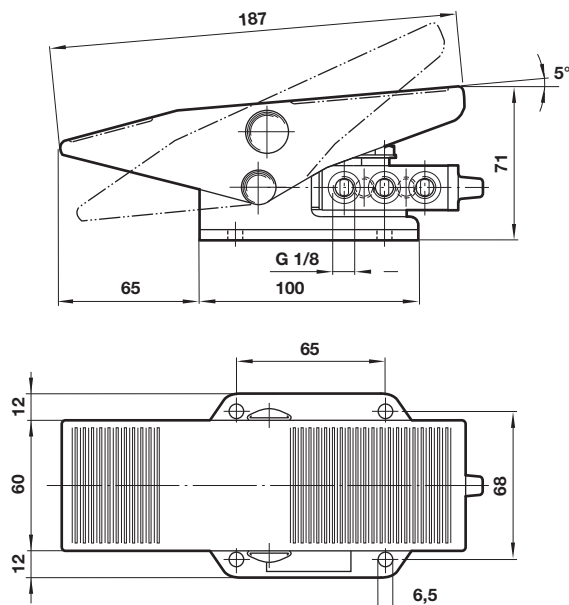
The key is removable in both positions.
Key slot shown in non-operated position.
Two keys are supplied.
This valve is suitable for panel mounting.

Dimensions in mm
Projection/First angle



65

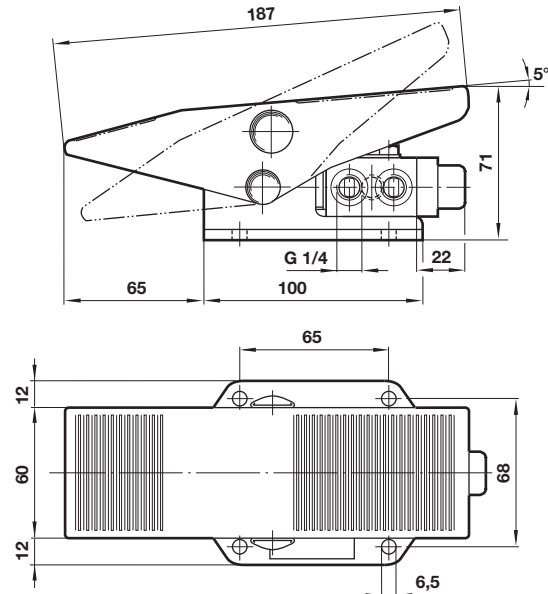
X3048202
5/2 Pedal operated spring return valve
X3048402
5/2 Pedal operated pedal return valve



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



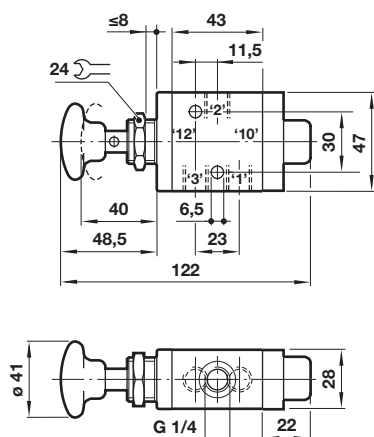
A foot guard is available for this valve,
reference 03048060.

Dimensions in mm
Projection/First angle



67

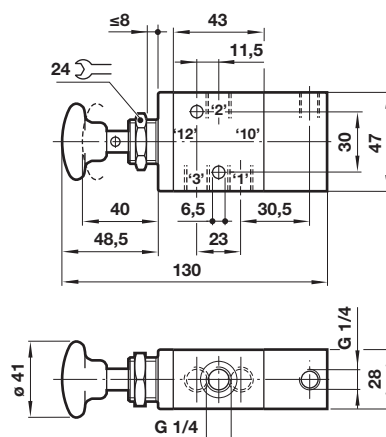
03060402
3/2 Knob operated spring return valve



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

68

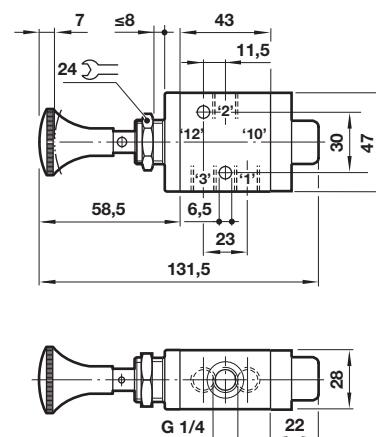
03060802
3/2 Button operated pilot return valve



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

69

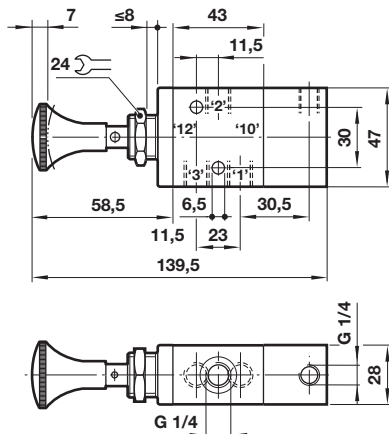
03062502
3/2 Knob operated knob return valve



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

70

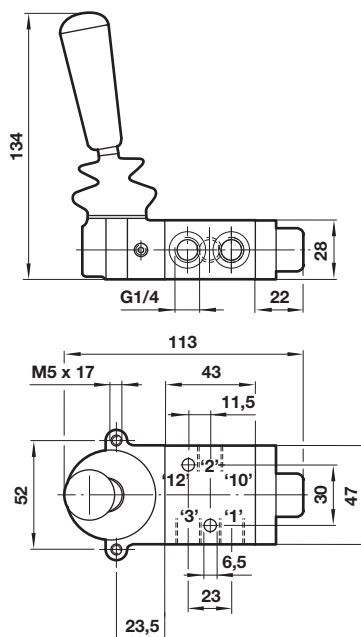
03062702
3/2 Knob operated, knob or
pilot return valve



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



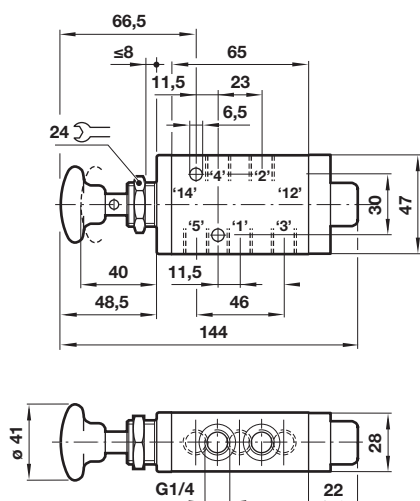
Model 03063702 features a positive detent
in each position.
Both models are suitable for panel mounting
by means of a bezel kit, reference 03363764.
Panel hole: Ø 31 mm
Panel thickness: 8 mm maximum

Dimensions in mm
Projection/First angle



72

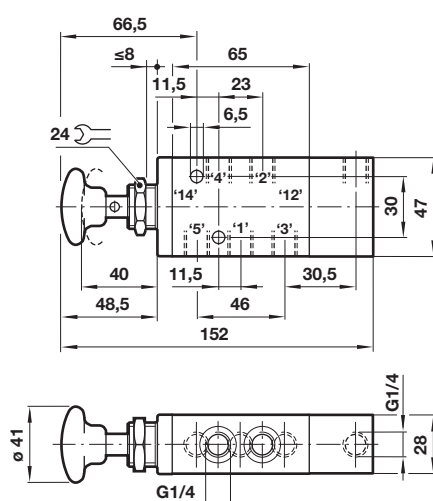
X3064402
5/2 Button operated spring return valve



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

73

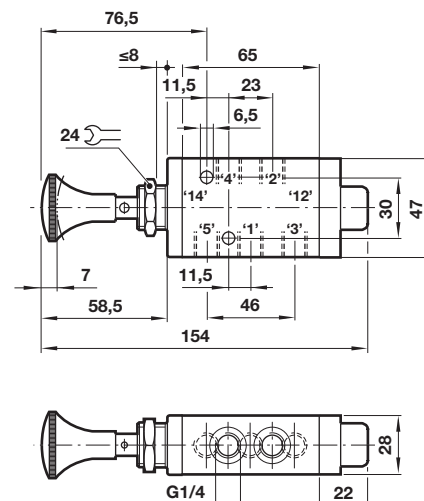
X3064802
5/2 Button operated pilot return valve



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

74

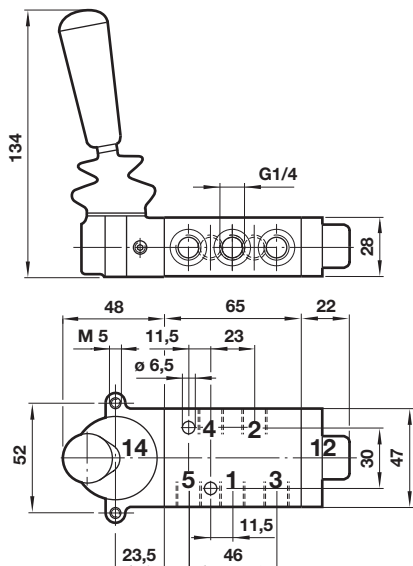
X3066502
5/2 Knob operated knob return valven



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

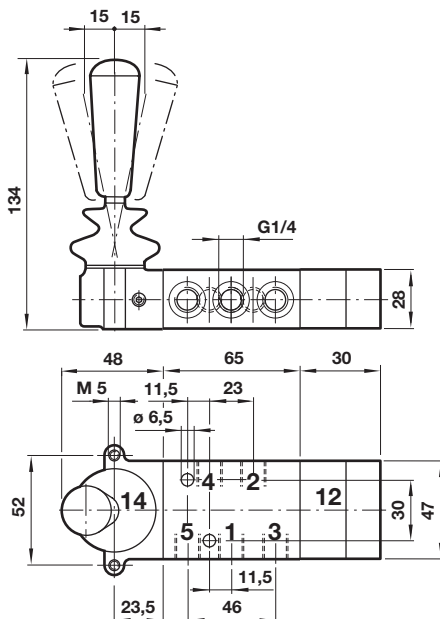
75

X3067802, X3067702
5/2 Lever operated valve



76

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



Dimensions in mm
Projection/First angle

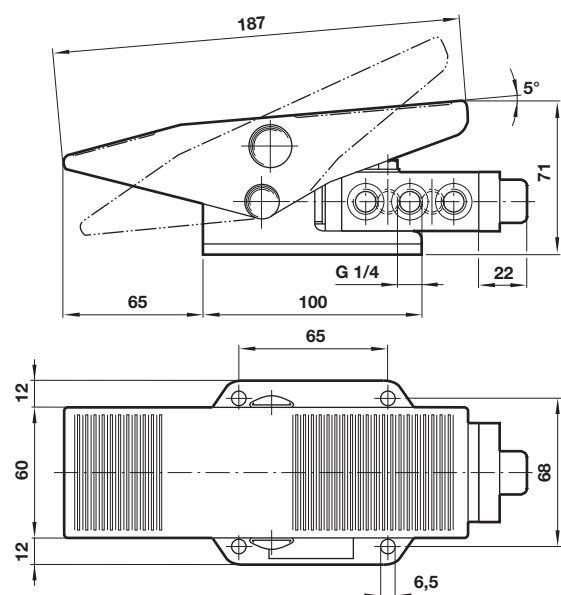


Model X3067702 features a positive detent in each position.
Both models are suitable for panel mounting by means of a bezel kit, reference 03363764.
Panel hole: Ø 31 mm
Panel thickness: 8 mm maximum

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

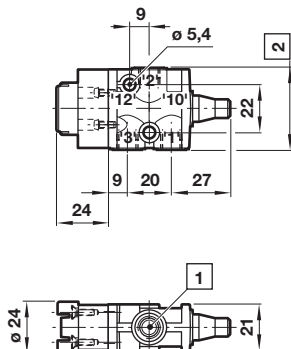
X3068202
5/2 Pedal operated spring return valve
X3068402
5/2 Pedal operated pedal return valve



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

78

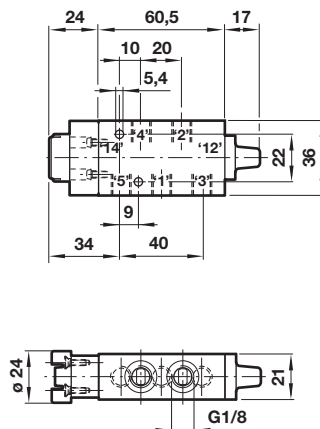
03029502, 03029532
3/2 Adapter valve



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

79

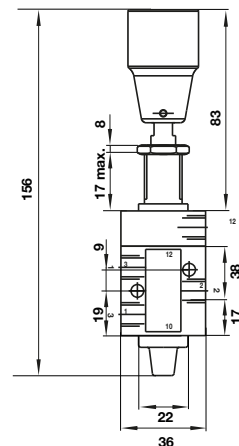
X3039502
5/2 Adapter valve



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

80

03035103
3/2 Mechanical valve



Dimensions in mm
Projection/First angle



Operating heads for use with G1/8, 3/2 and 5/2 Adaptor valves

Panel hole: Ø 22,5 mm

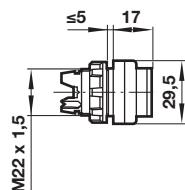
Panel thickness: 6 mm maximum

V11783-C01 (pink)

V11783-C02 (green)

V11783-C03 (black)

Button (palm) operated, spring return

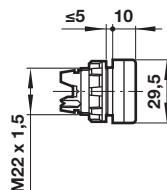


V11783-C04 (pink)

V11783-C05 (green)

V11783-C06 (black)

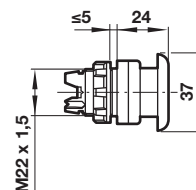
Button (shrouded) operated, spring return



V11783-C07 (red)

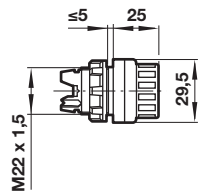
V11783-C08 (green)

Button (mushroom) operated, spring return



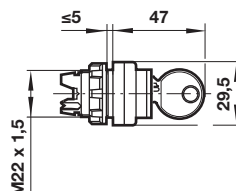
V11783-C10

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 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.