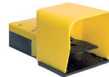


MANUALLY AND MECHANICALLY OPERATED VALVES

Product Index

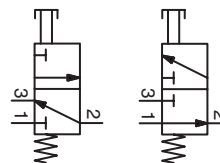


ports/positions	Function		pipe connections				max. pressure (bar)	flow at 6 bar l/min (ANR)	type of operator		technology		Type	Illustration	Series	Page
	NC	NO	 - instant fittings O.D. (mm)  - internal thread ØG						button / lever	pedal	poppet	spool				
				1/8	ØG 1/4	3/8										
Manually operated valves																
3/2	●	●					8	112	●		●		micro-valve		307	1
	●						10	280	●		●	●			310	5
3/2	●	●					10	200	●			●	mini spool valve		550	7
5/2																
3/2	●	●					10	860	●	●		●	spool valve		551	09
5/2							10	860-1610	●	●		●			551 552	11
5/3							10	760-1610	●			●			551 552	13
5/2							10	655		●		●			ZF2F	15

ports/ positions	Function		pipe connections			max. pressure (bar)	flow at 6 bar l/min (ANR)	technology		Type	Illustration	Series	Page			
	NC	NO	 - instant fittings O.D. (mm)	 - internal thread ØG				ØG	1/8					1/4	poppet	spool
Mechanically operated valves																
3/2	●					8	140	●	●	micro-valve		309	17			
3/2	●					8	140	●		micro-valve		308	19			
3/2	●					10	280	●	●	micro-valve		310	21			
3/2	●	●				10	200		●	mini spool valve		550	23			
5/2																
3/2	●					10	860		●	spool valve		551	25			
5/2																
3/2	●	●				10	406		●	micro-valve		320	27			
Two-hand pneumatic safety start units and blocks																
												336				
Sensors																
Sensors with or without mechanical contact												333	 See "Pneumatic Automation"			
Falling pressure sensors																

MANUALLY OPERATED PILOT VALVE

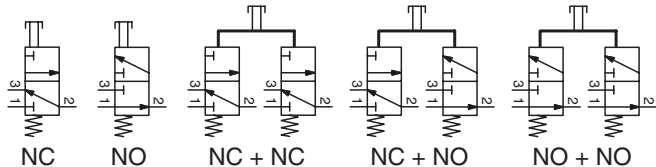
for panel mounting Ø 22
instant fittings for Ø 4 mm O.D. tube or G 1/8



3/2
Series
307

FEATURES

- Microvalve composed of an operating head, an adaptor, an intermediary subbase and one or two pneumatic modules.
- Modules allowing the following combination of functions:



- Adaption of metal or plastic buttons designed to meet the highest quality standards.
- Secure and robust fastening of the button on the microvalve.

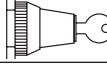
GENERAL

Fluid	Air filtered, lubricated or no
Ports	Instant fittings Ø 4 O.D. or G 1/8
Operating pressure	0 to 8 bar
Ambient temperature	-5°C to +60°C
Operators	Manual
Flow (Qv at 6 bar)	112 l/min (ANR)
Nominal diameter	2 mm

CONSTRUCTION

Popet valve construction	Internal parts in stainless steel and elastomer
Body diecast	Exhaust port not tapped

SPECIFICATIONS - METAL operating head and adaptor

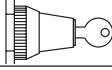
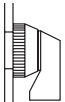
pilot valve			operating head	adaptator		intermediary subbase + pneumatic(s) module(s)						
 or  =  +  +  or 												
designation		type	color	cat. number	cat. number	connect.		cat. number		cat. number		
	flush push button	impulse	black	88130757	88130754							
			green	88130758								
			red	88130759								
	mushroom* button Ø 40	push-turn	red	88130770								
		push-pull	red	88130752								
		impulse	red	88130762								
			black	88130763								
		Ø 60	impulse	black								88130772
	switch button	2 positions fixed	black	88130771			NC	30701009	NC+NC	30701011		
							NO	30701010	NC+NO	30701012		
	key operated button	key removal at 0 and 1	black	88130761		G1/8	NC	30701013	NC+NC	30701015		
							NO	30701014	NC+NO	30701016		
	lever switch button	2 positions fixed		black		88130760						
		3 positions fixed		black		88130767						
		3 positions self centring		black	88130766							

*These components are not security mechanism

Order example :

1 pilot valve, instant fittings ports, with impulse black flush push button, NC :
1x 88130757 + 1x 88130754 + 1x 30701009

SPECIFICATIONS - PLASTIC operating head and adaptor

pilot valve			operating head	adaptator		intermediary subbase + pneumatic module(s)								
 or  =  +  +  or 														
designation	type	color	cat. number	cat. number	88130753 +	connect.	cat. number		cat. number					
	flush push button	impulse	black	88130745										
		green	88130744											
		red	88130743											
	mushroom* button Ø 40	push-turn	red	88130740										
		impulse	red	88130741										
	black	88130742												
Ø 60	impulse	black	88130748											
	switch button	2 positions fixed	black										88130739	
		NO	30701010					NC+NO	30701012					
	key operated button	key removal at 0 and 1	black			88130738			G1/8	NC	30701013	NC+NC	30701015	
		NO	30701014			NC+NO				30701016				
	lever switch button	2 positions fixed				black			88130737					
		3 positions fixed				black	88130736							
		3 positions self centring				black	88130735							

*These components are not security mechanism

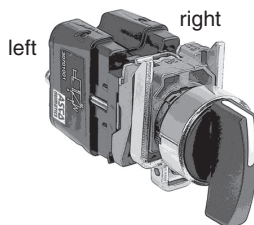
Order example:

1 pilot valve, connection G 1/8, with impulse red flush push button, NC+NC :

1x 88130743 + 1x 88130753 + 1x 30701015

OPERATION OF 3 POSITION SWITCHES

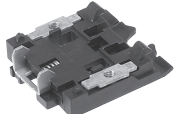
type	operation on module	
	left	right
3 positions fixed 	0 → not operated	not operated
	1 → not operated	operated
	2 → operated	not operated
3 positions self centring 	0 → not operated	not operated
	1 → not operated	operated
	2 → operated	not operated



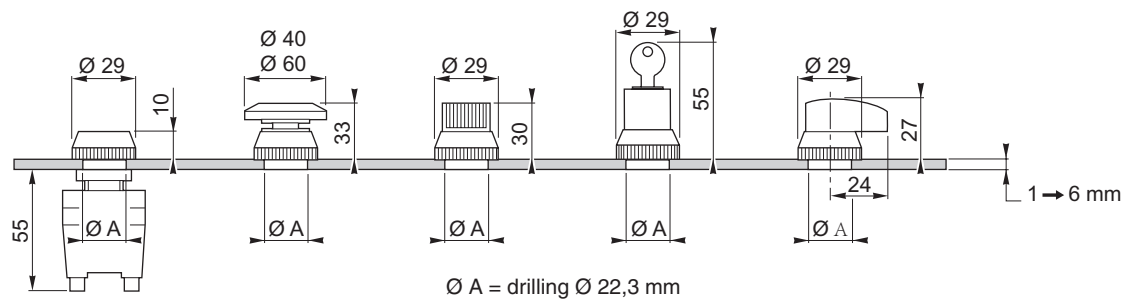
SEPARATED PNEUMATIC MODULES

connection	function	cat. number
instant fittings Ø 4 mm O.D.	NC	30701001
	NO	30701002
tapped G 1/8	NC	30701005
	NO	30701006

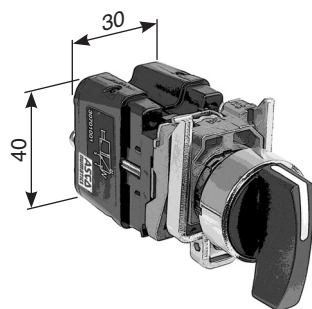
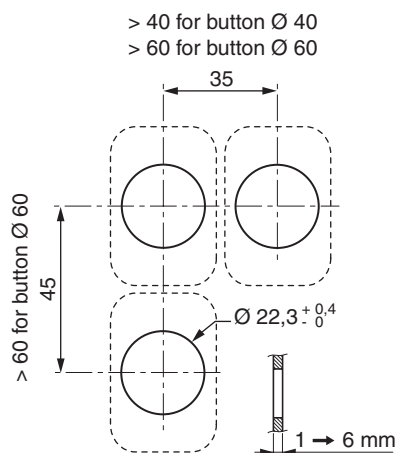
INTERMEDIARY SUBBASE

	cat. number
	88130775

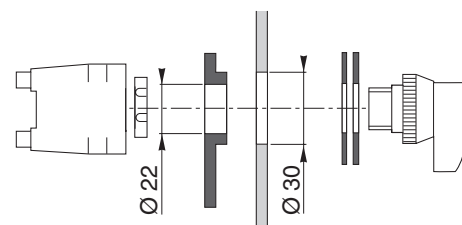
DIMENSIONS



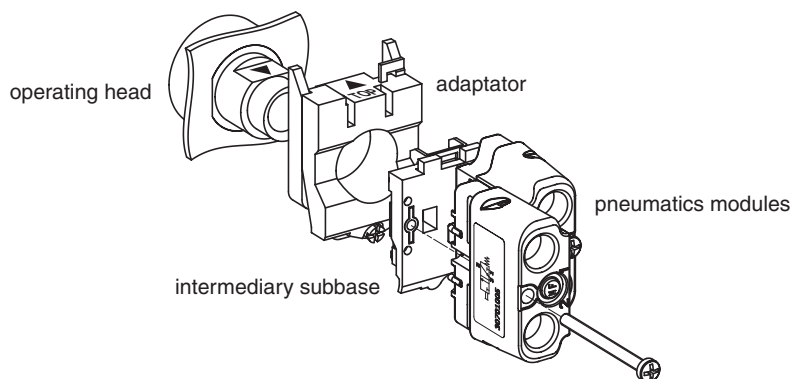
PANEL DRILLING



REDUCING ADAPTER Ø 30 → Ø 22 mm

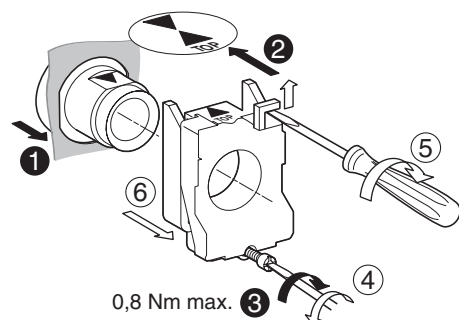


MOUNTING



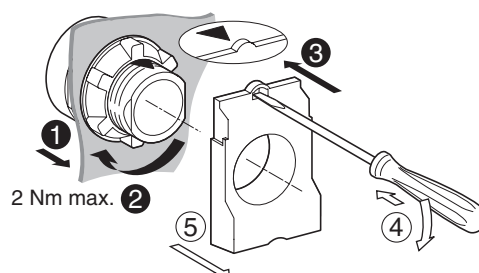
metal operating head

- ➔ ① ② ③ ◀ mounting
◀ ④ ⑤ ⑥ ➔ dismantling



plastic operating head

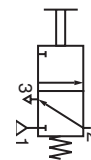
- ➔ ① ② ③ ◀ mounting
◀ ④ ⑤ ➔ dismantling



PILOT VALVE

manually operated

instant fittings for Ø 4 mm O.D. tube or G 1/8



3/2
Series
310

SPECIFICATIONS

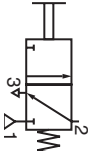
FLUID	: Air or neutral gas, filtered, lubricated or not
PORTS	: instant fittings Ø4 O.D. or G 1/8
PRESSURE	: 0 to 10 bar
TEMPERATURE	: -5°C to +60°C
FLOW (Qv at 6 bar)	: 280 l/min (ANR)
Ø NOMINAL	: 3,5 mm

CONSTRUCTION

Spool and poppet design closed centre
Body zinc diecasting
Internal parts acetal
Sealing NBR (nitrile)

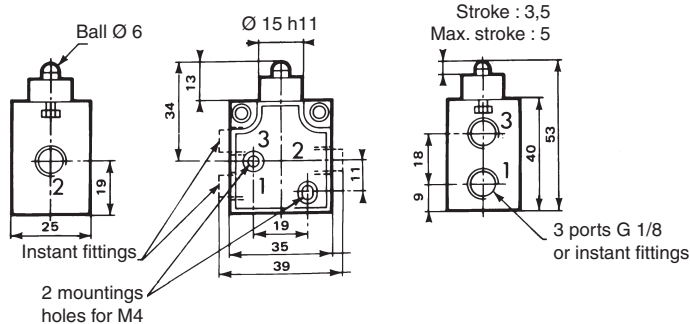


CHOICE OF EQUIPMENT

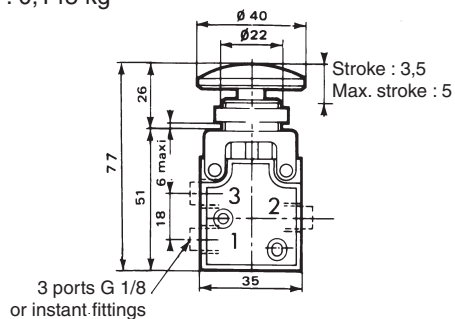
FUNCTION NC Normally closed			 1 = Pressure 2 = Outlet 3 = Exhaust		
Type	Description	Operating effort (daN)	CODES		
			Head ALONE	COMPLETE PILOT VALVE	
				Instant fittings	G 1/8
—	Valve alone BODY NC	5	—	31090002	31090001
	Push button Ø 40	5	88131007	31000015	31000008
	Impulse mushroom Ø 60	5	88131004	31000016	31000009
	Lever positive 2 maintained positions	—	88131003	31000017	31000010

DIMENSIONS AND WEIGHTS

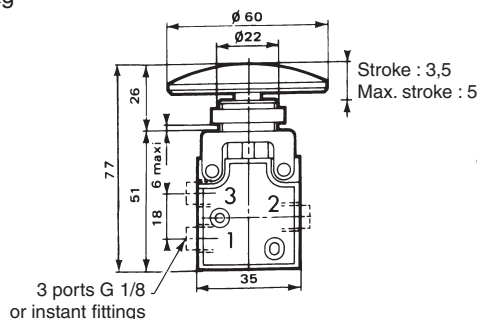
Valve alone
Weight : 0,100 kg



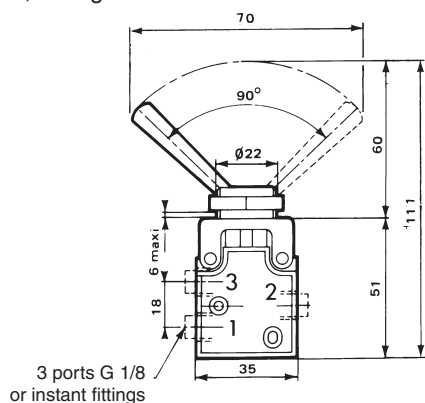
Button Ø 40
Weight : 0,145 kg



Impulse mushroom Ø 60
Weight : 0,150 kg



Lever positive, 2 maintained positions
Weight : 0,120 kg



MINI SPOOL VALVE

manually operated
G 1/8

3/2-5/2
Series
550

SPECIFICATIONS

FLUID	: Air or neutral gas, filtered, lubricated
PRESSURE	: 0 to 10 bar
TEMPERATURE	: -10 °C to +60 °C
FUNCTIONS	: 3/2 - 5/2
PORTS	: G 1/8
FLOW (Qv at 6 bar)	: 200 l/min (ANR)

CONSTRUCTION

Body anodized light alloy
Covers light alloy and acetal
Internal parts light alloy
Sealing nitrile (NBR)
Button synthetic resin

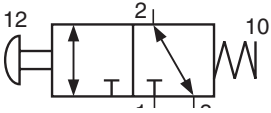
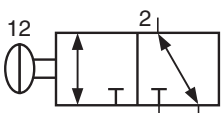
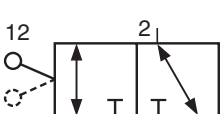
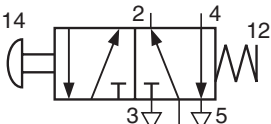
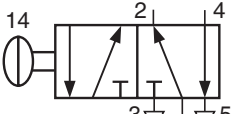
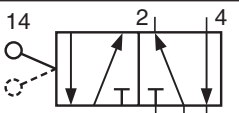
Possible mounting panel (percing Ø 16,5)

The 3/2 spool valve can be used as a 3/2 NC or 3/2 NO version, by connecting as indicated opposite



Ports of 3/2	
NC	NO
1 = Pressure	Exhaust
2 = Outlet	Outlet
3 = Exhaust	Pressure
Ports of 5/2	
1 = Pressure	
2,4 = Outlets	
3,5 = Exhausts	

CHOICE OF EQUIPMENT

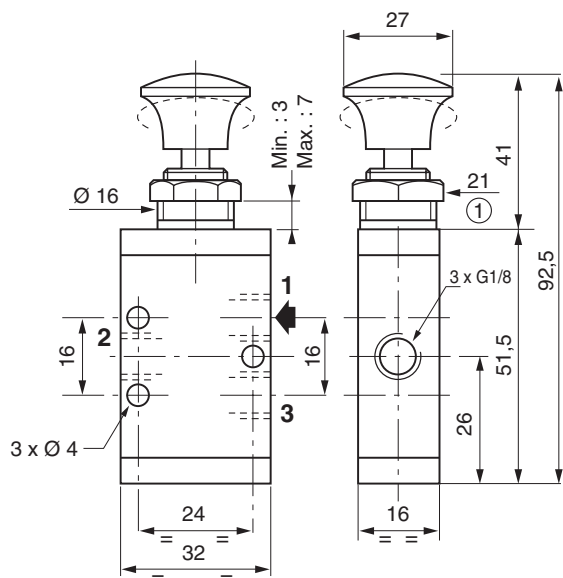
	Symbols Functions	Operators		CODES
		Pilot	Return	
3/2		Push button	Spring	55000040
		Push-pull button		55000039
		Lever - lever detented		55000043
5/2		Push button	Spring	55000009
		Push-pull button		55000010
		Lever - lever detented		55000011

DIMENSIONS AND WEIGHTS

3/2

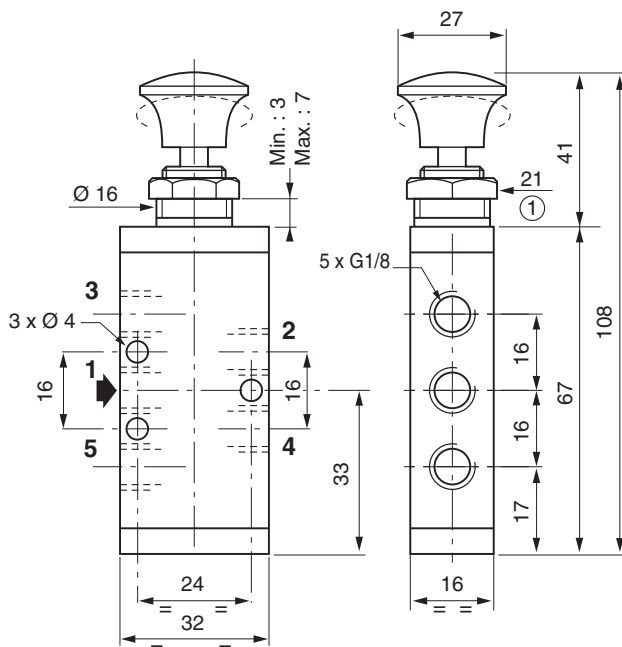
PUSH BUTTON / SPRING RETURN
PUSH-PULL BUTTON

Weight : 74 g



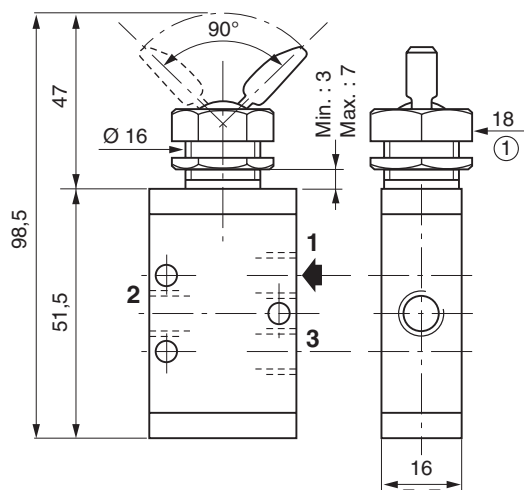
5/2

Weight : 94 g

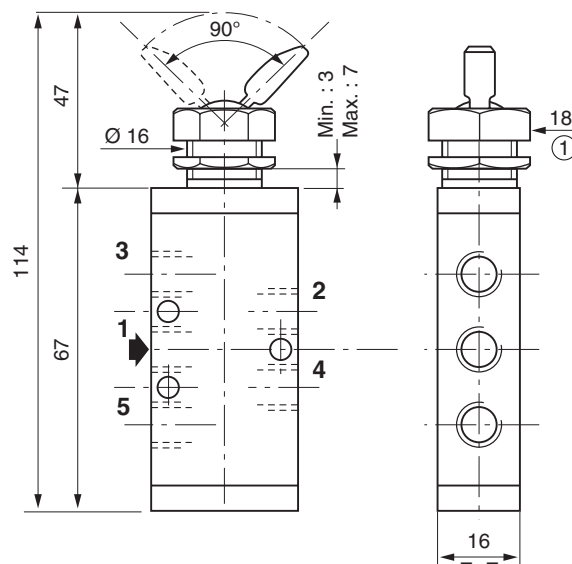


LEVER - LEVER DETENTED

Weight : 76 g



Weight : 92 g



① Dimensions on flats

SPECIFICATIONS

FLUID	: air or neutral gas, filtered, lubricated or not
PORTS	: G 1/4
PRESSURE	: 0 to 10 bar
TEMPERATURE	: -25°C to +60°C
FLOW (Qv at 6 bar)	: 860 l/min (ANR)

CONSTRUCTION

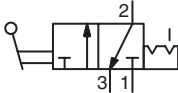
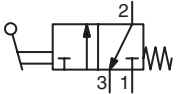
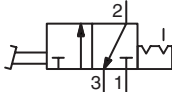
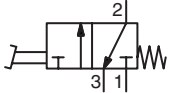
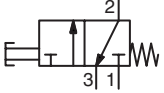
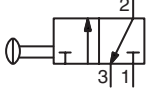
Environmentally-protected construction
Body: treaded aluminium
Internal parts: zinc diecasting, steel,
stainless steel, acetal (POM)
Sealings: nitrile (NBR) and polyurethane (PUR)

For 3/2 NC
connection
1 = Pressure
2 = Outlet
3 = Exhaust



CHOICE OF EQUIPMENT

[Configurator - CAD Files](#)

Symbols functions	Operators		CODES
	Pilot	Return	
LEVER OPERATED			
	Lever - Lever detented		55102088
	Lever	Spring	55102089
PEDAL OPERATED			
	Pedal 2 positions		55102090
	Pedal	Spring	55102091
BUTTON OPERATED			
	Button	Spring	55102082
	Button push-pull		55102083

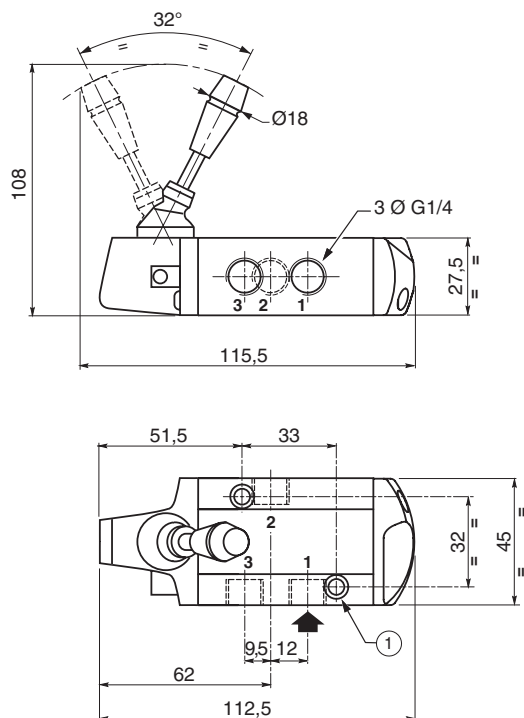
Note: do not connect the pressure supply to the exhaust port 3. For a "distributing" function or use in NO function, contact us.

These products exist in versions [5/2](#) and [5/3](#)

DIMENSIONS AND WEIGHTS

VALVE LEVER OPERATED

Weight: 0,360 kg

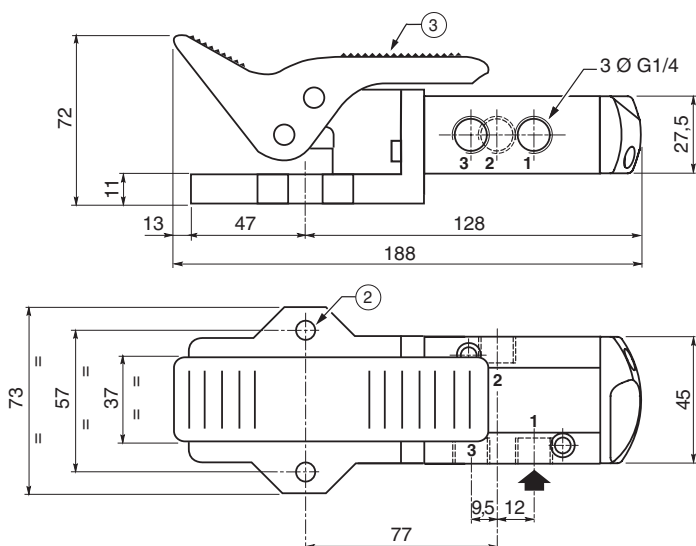


- ① 2 fixing holes : Ø 5,3 - counterbore : Ø 9, depth 5
- ② 2 fixing holes : Ø 8,5
- ③ Return pedal 2 positions

Configurator - CAD Files

VALVE PEDAL OPERATED

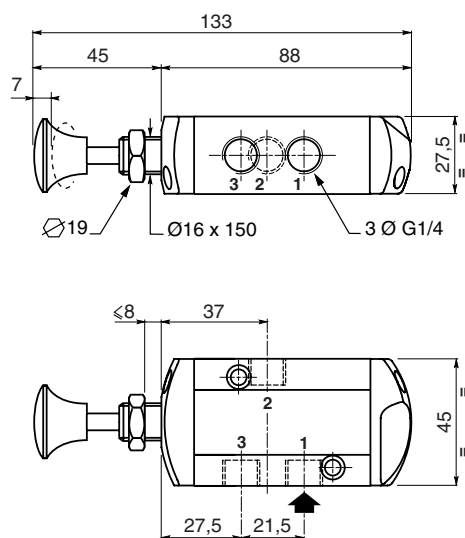
Weight: 0,515 kg



BUTTON

BUTTON PUSH-PULL

Weight: 0,230 kg



SPECIFICATIONS

FLUID	: air or neutral gas, filtered, lubricated (G 3/8) or not (G 1/4)
PORTS	: G 1/4 - G 3/8
PRESSURE	: 0 to 10 bar
TEMPERATURE	: -25°C to +60°C
FLOW (Qv at 6 bar)	: see table below

CONSTRUCTION

series 551

Environmentally-protected construction
Body G 1/4, treated aluminium
Internal parts: zinc diecasting, steel, stainless steel, acetal (POM)
Sealings: nitrile (NBR) and polyurethane (PUR)

series 552

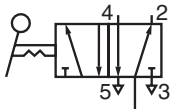
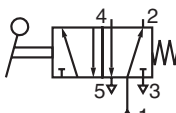
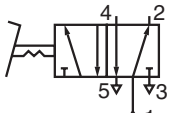
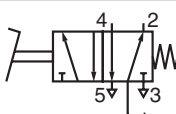
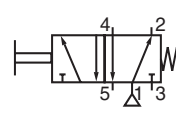
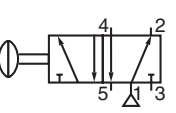
Body G 3/8, in light alloy
Internal parts: stainless steel, light alloy
Sealings: nitrile (NBR)



1	= Pressure
2,4	= Outlets
3,5	= Exhausts

CHOICE OF EQUIPMENT

[Configurator - CAD Files](#)

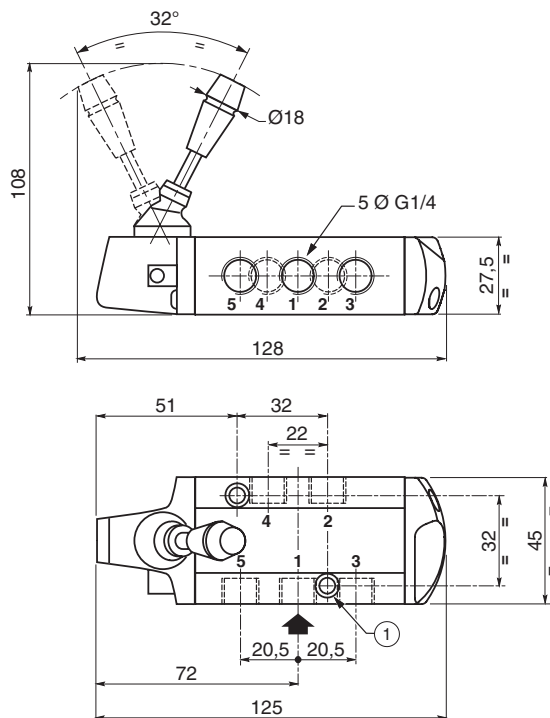
Symbols functions	Operators		Ø ports	Flow at 6 bar l/min (ANR)	CODES
	Pilot	Return			
LEVER OPERATED					
	Lever - Lever detented		G 1/4	860	55102092
	Lever 2 positions		G 3/8	1610	55200036
	Lever	Spring	G 1/4	860	55102093
			G 3/8	1610	55200037
PEDAL OPERATED					
	Pedal 2 positions		G 1/4	860	55102094
	Pedal	Spring	G 1/4	860	55102095
BUTTON OPERATED					
	Buton	Spring	G 1/4	860	55102085
	Button push-pull		G 1/4	860	55102086

DIMENSIONS AND WEIGHTS

VALVE LEVER OPERATED

Series 551: ports G 1/4

Weight: 0,390 kg

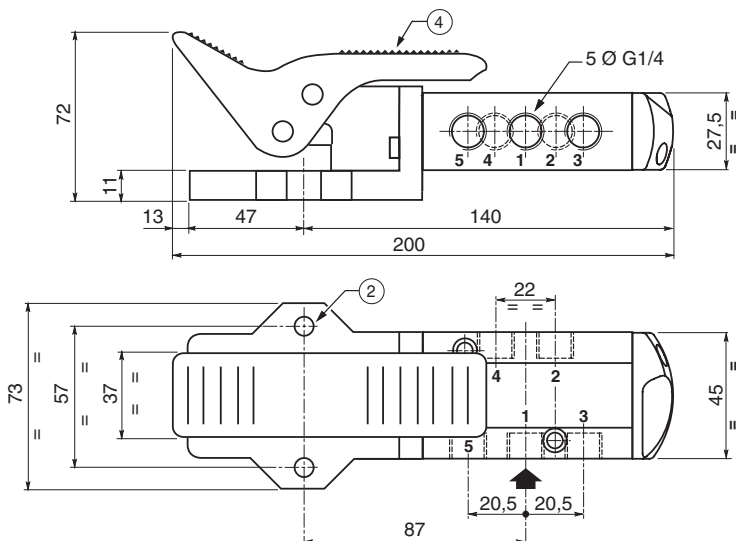


- ① 2 fixing holes: Ø 5,3 - counterbore : Ø 9, dept 5
- ② 2 fixing holes: Ø 8,5
- ③ 4 fixing holes: Ø 5,5
- ④ Return pedal 2 positions

VALVE PEDAL OPERATED

Series 551 : ports G 1/4

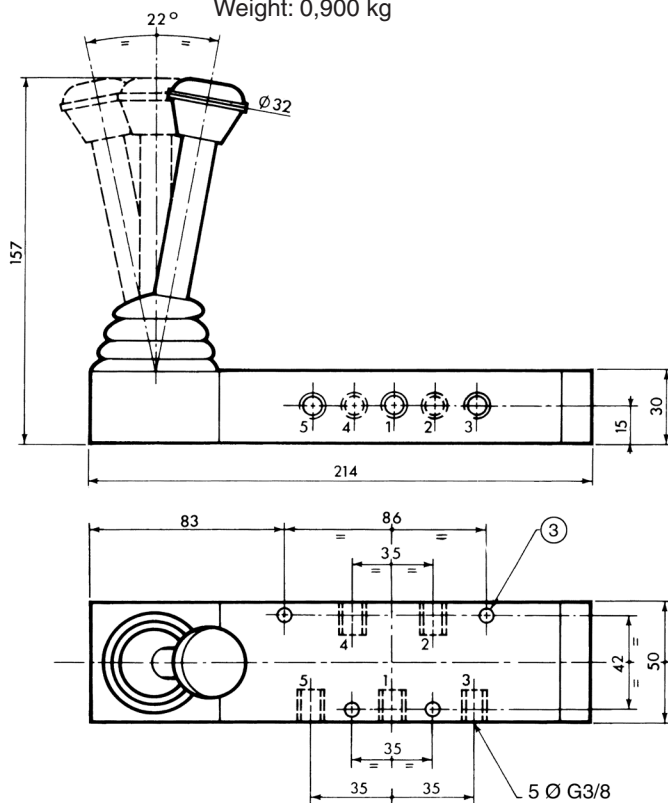
Weight: 0,545 kg



Configurator - CAD Files

Series 552 : ports G 3/8

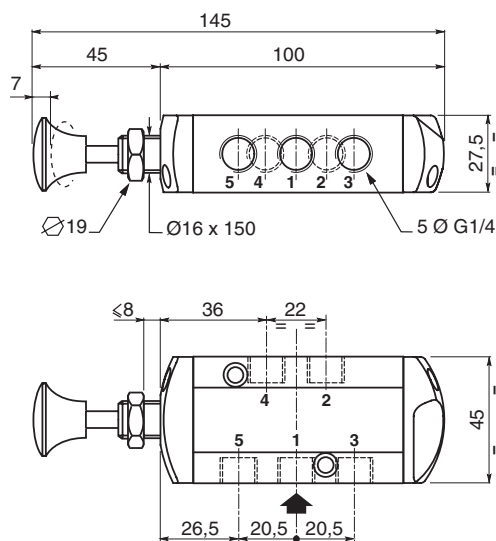
Weight: 0,900 kg



BUTTON, BUTTON PUSH-PULL

Series 551 : ports G 1/4

Weight: 0,265 Kg



SPECIFICATIONS

FLUID	: air or neutral gas, filtered, lubricated (G 3/8) or not (G 1/4)
PORTS	: G 1/4 - G 3/8
PRESSURE	: 0 to 10 bar
TEMPERATURE	: -25°C to +60°C
FLOW (Qv at 6 bar)	: See table below

CONSTRUCTION

series 551

Environmentally-protected construction

Body G 1/4, treated aluminium

Internal parts: zinc diecasting, steel, stainless steel, acetal (POM)

Sealings: nitrile (NBR) and polyurethane (PUR)

series 552

Body G 3/8, in light alloy

Internal parts: stainless steel, light alloy

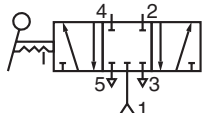
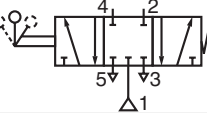
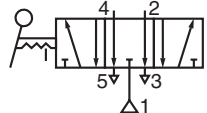
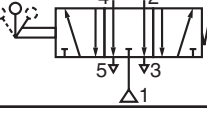
Sealings: nitrile (NBR)



1 = Pressure
2,4 = Outlets
3,5 = Exhausts

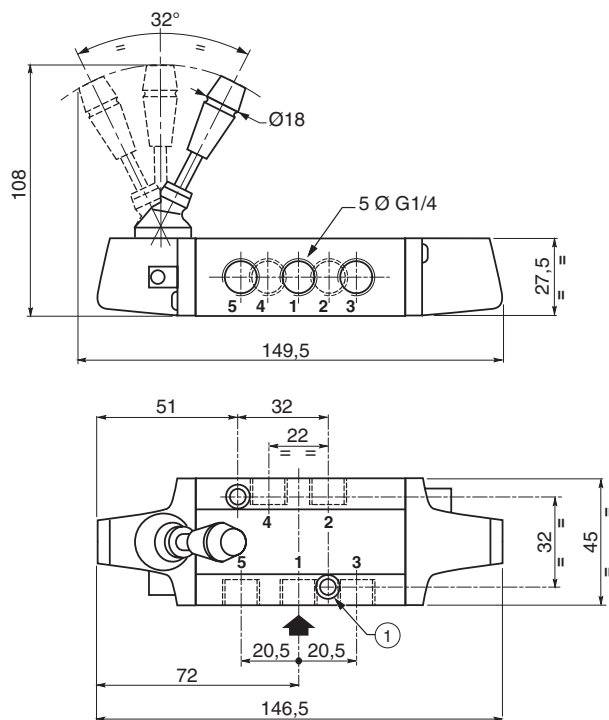
CHOICE OF EQUIPMENT

[Configurator - CAD Files](#)

	Symbols functions	Operators	Ø ports	Flow at 6 bar l/min (ANR)	CODES
5/3 closed position (W1)		Lever 3 positions detented (W1)	G 1/4	760	55102096
			G 3/8	1610	55200038
		Lever 3 positions spring to centre (W1)	G 1/4	760	55102097
			G 3/8	1610	55200039
5/3 open position to exhaust (W3)		Lever 3 positions detented (W3)	G 1/4	760	55102098
		Lever 3 positions spring to centre (W3)	G 1/4	760	55102099

DIMENSIONS AND WEIGHTS
VALVE LEVER OPERATED
Series 551: ports G 1/4

Weight: 0,510 kg

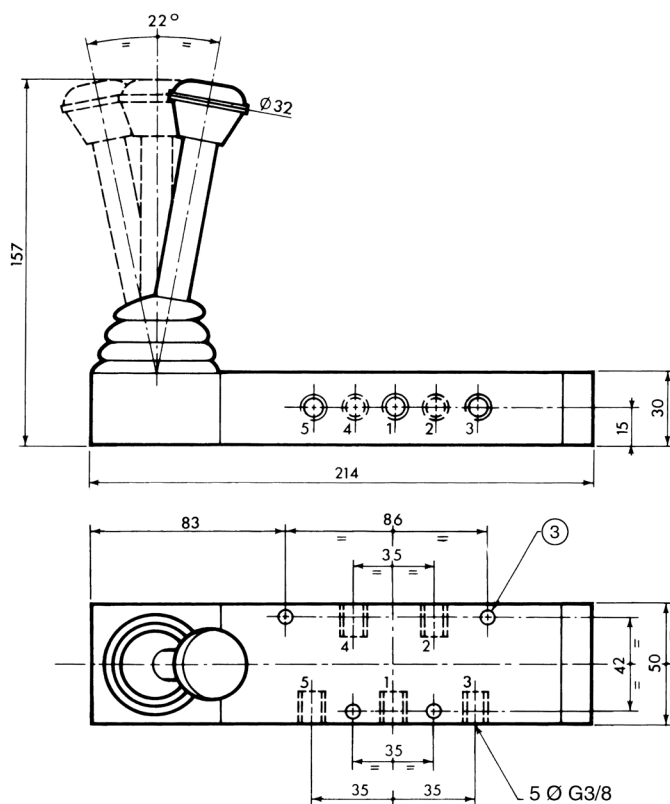


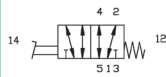
① 2 fixing holes: Ø 5,3 - counterbore : Ø 9, dept 5

② 4 fixing holes: Ø 5,5

[Configurator - CAD Files](#)
Series 552 : ports G 3/8

Weight: 0,900 kg





FEATURES

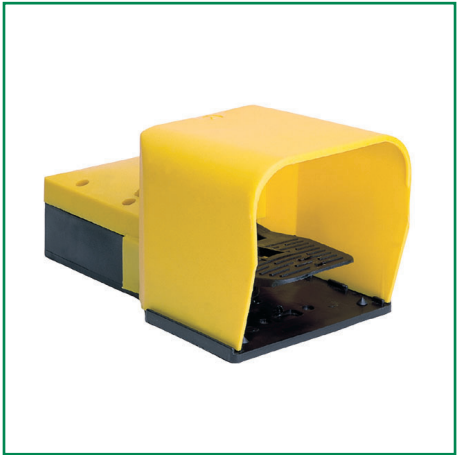
- valve with a covering cap
- Spring return or pedal return

SPECIFICATIONS

Fluid	Air or neutral gas, filtered, lubricated or not
Ports	G 1/4
Pressure	2 to 10 bar
Temperature	-25°C to +60°C
Flow (Qv at 6 bar)	655 l/min (ANR)

CONSTRUCTION

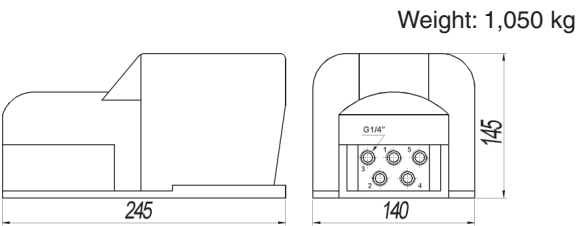
Covering cap	Shock-resistant plastic (polyethylene) in signal yellow
Housing	Shock-resistant plastic (polyethylene) in black
Internal parts	Anodized or nickel plated aluminium, stainless, brass
Seals	NBR (nitrile)



SPECIFICATIONS

Symbols functions		Operators		catalogue number
		Pilot	Return	
5/2		Pedal 2 positions		ZF2FD400OG00000
		Pedal	Spring	ZF2FA400OG00000

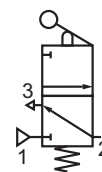
DIMENSIONS (mm), WEIGHT (kg) (mm)



PILOT VALVE

mechanically operated

instant fittings for Ø 4mm OD tube



3/2
Series
309

SPECIFICATION

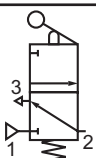
FLUID	: Air filtered, lubricated or not
PORTS	: Instant fittings for flexible tube Ø 4 mm OD
PRESSURE	: 0 to 8 bar
TEMPERATURE	: -5°C to +50°C
OPERATORS	: Mechanical
FLOW (Qv at 6 bar)	: 140 l/min (ANR)
Ø NOMINAL	: 2,5 mm

CONSTRUCTION

Spool and poppet design closed centre
Body zinc diecasting
Internal parts in stainless steel and elastomer
Instant fittings in brass
Sealing NBR (nitrile)
Built-in silencer



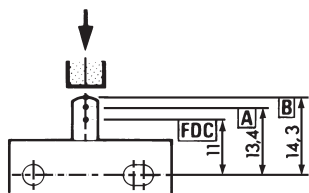
CHOICE OF EQUIPMENT

FUNCTION NC Normally closed			Mechanical operator	1 = Pressure 2 = Outlet 3 = Exhaust (not tapped)		
Operating head + body		Effort (daN) Supply pressure			CODES	
Type	Description	2 bar	5 bar	8 bar		
	Simple push	1	1,7	2,5	30900002	
	Lever roller plastic roller	0,5	0,9	1,3	30900003	
	Lever roller ball bearing roller	0,5	0,9	1,3	30900001	
	1 way trip plastic roller (Life : 1 million cycles)	0,5	0,9	1,3	30900004	
	Threaded head push (※)	1	1,7	2,5	30900006	

(*) The pilot valve with a threaded head, is equipped with a treated steel stop rig which allows the valve to be used as an end stop (max. force 200 kg, 50 mm dia. cylinder).

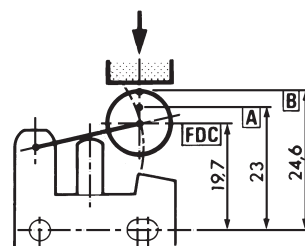
MECHANICALLY OPERATED PILOT VALVE SERIES 309

MOUNTING



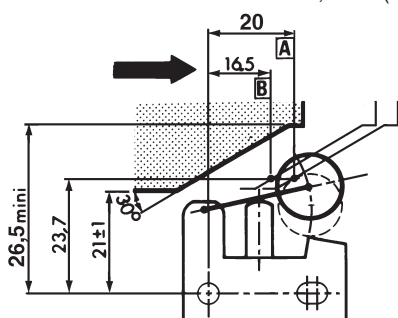
Front Actuation

- A** : Actuating point
(small flow established)
- B** : Release point
- FDC** : End of stroke position

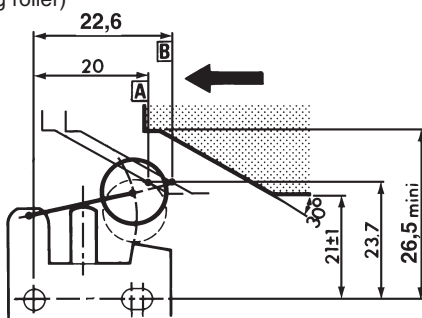


Lever roller

Max. speed :
1 m/s (plastic roller)
0,3 m/s (ball bearing roller)

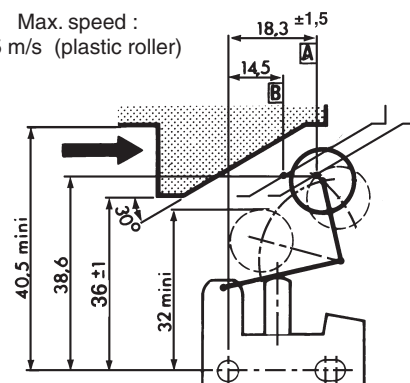


**Side
operation
30°**



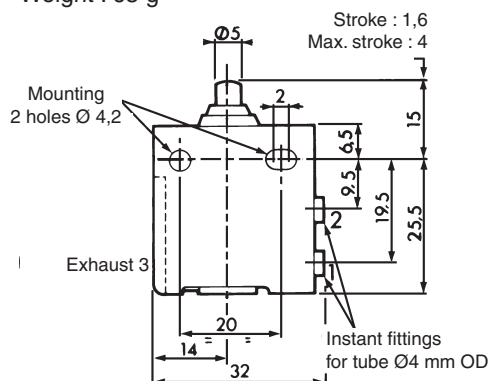
1 way trip plastic roller

Max. speed :
0,5 m/s (plastic roller)

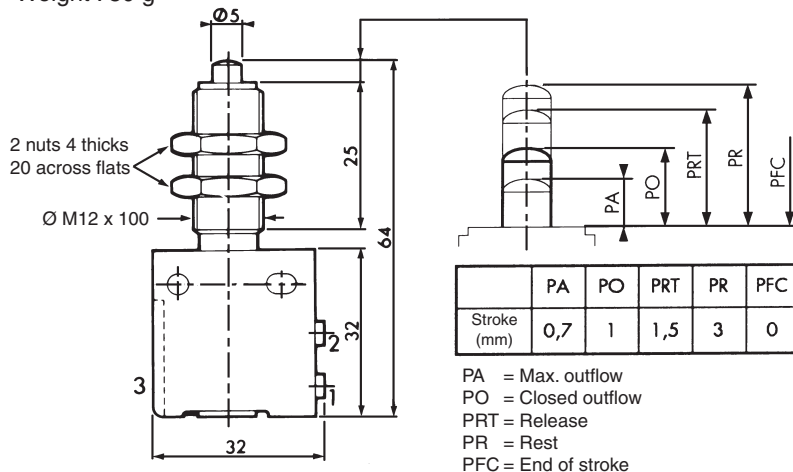


DIMENSIONS AND WEIGHTS

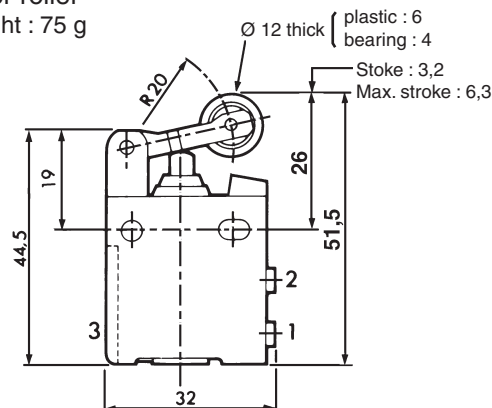
Tapped
Weight : 65 g



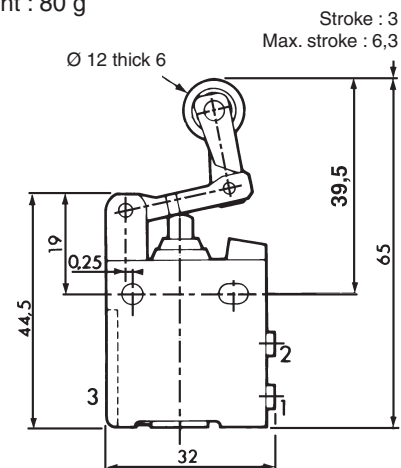
Push button
Weight : 80 g



Lever roller
Weight : 75 g



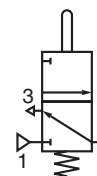
1 way trip plastic roller
Weight : 80 g



HEAVY DUTY PILOT VALVE

mechanically operated
instant fittings
for Ø 4 mm OD tube or G 1/8

NC



3/2
Series
308

SPECIFICATION

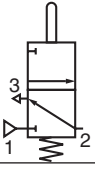
FLUID	: Air filtered, lubricated or not
PORTS	: instant fittings for Ø 4 mm OD tube or G 1/8
PRESSURE	: 0,1 to 8 bar
TEMPERATURE	: -5°C to +50°C
FLOW (Qv at 6 bar)	: 140 l/min (ANR)
Ø NOMINAL	: 2,5 mm
OPERATING HEADS	: Mechanical
IMPLANTING	: CENELEC EN 50047 CNOMO n° 06.05.35

CONSTRUCTION

Centre closed poppet valve
Body diecast
Internal parts in stainless steel and elastomer
Built-in exhaust silencer (exhaust port can be piped G 1/8)
Instant fittings brass



CHOICE OF EQUIPMENT

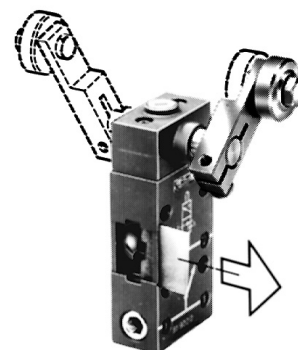
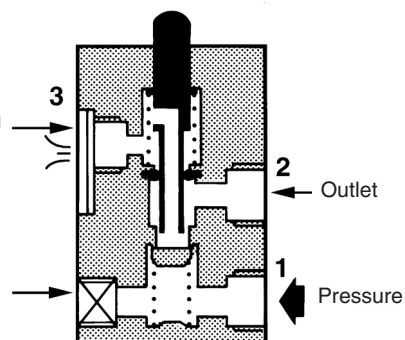
FUNCTION NC Normally closed						
				 1 = Pressure 2 = Outlet 3 = Exhaust		
Operating head		Action	Effort (daN) with 8 bar	CODES		
Type	Operator			Operating head ALONE	Valve body + operating head	
					Instant fittings	Tapped G 1/8
	Single lever plastic roller	Left and right	1,2	88130801 (*)	30800009	30800015
	Single lever bearing roller (CNOMO 06.05.35)	Left and right	1,2	88130802 (*)	30800010	30800016
	Adjustable lever with plastic roller	Left and right	0,4 to 1,2	88130803 (*)	30800011	30800017
	Adjustable lever with ball bearing roller	Left and right	0,4 to 1,2	88130804 (*)	30800012	30800018
	Flexible lever	Left and right	0,3 to 1,2	88130807 (*)	30800027	30800030
	Rotating head alone	Left and right	-	-	30800001	30800005

(*) The different levers are fitted to the valve fitted with a head with a side spindle (code **30800001** or **30800005**)

CONNECTING

Exhaust
Flat silencers removable revealing
an G 1/8 port.

Alternative pressure port G 1/8
in this case plug port (1).



All leaflets are available on: www.asco.com

Manually & Mechanically operated valves (3/2) - 19

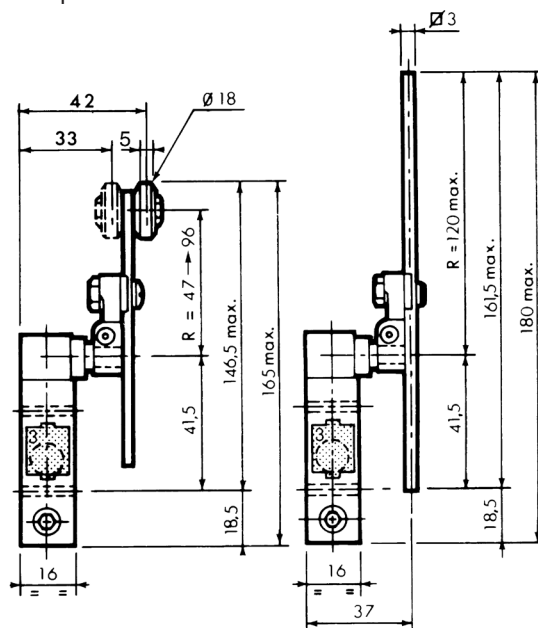
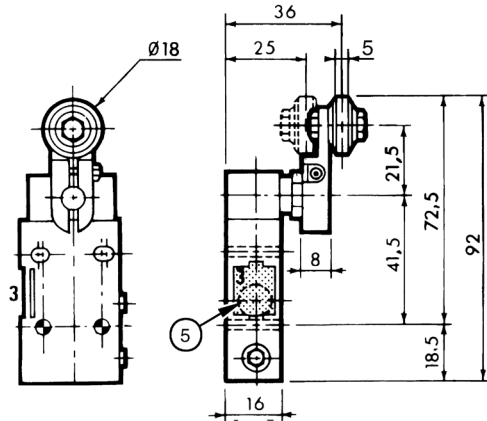
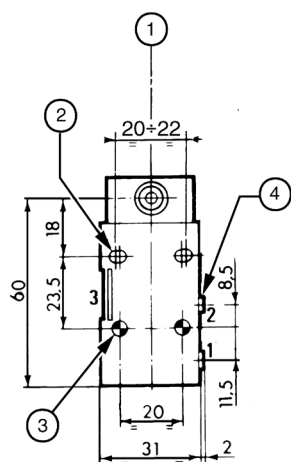
DIMENSIONS AND WEIGHTS (Max. weight : 0,200 kg)

Valve with rotating
head alone

Single lever
plastic roller

Adjustable lever
with plastic roller or

Flexible lever



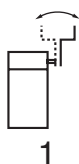
- ① Axe of the levers
- ② CENELEC mounting 2 holes Ø 4.2
- ③ CNOMO mounting 2 holes Ø 5.2
- ④ Instant fittings for tube Ø 4 mm or G 1/8
- ⑤ Exhaust with built-in silencer (can be piped G 1/8)

MOUNTING : SELECTING CONTROL POSITION

Single lever :

4 possible actions function of:

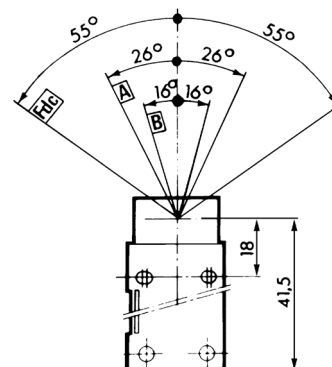
- (1) lever axe in relation to the head
- (2) roller position in relation to the lever



Upright adjustable lever :

2 possible mountings, by tilting the lever

Lever all types
on rotating head



- A** Actuation point
(small flow established)
- B** Release point
- Fdc** End of stroke position

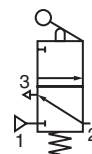
PILOT VALVE

mechanically operated

instant fittings

for Ø 4 mm OD tube or G 1/8

NC


3/2
 Series
310

SPECIFICATIONS

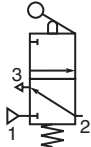
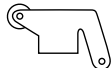
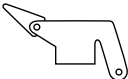
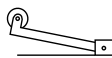
FLUID	: Air or neutral gas, filtered, lubricated or not
PORTS	: instant fittings for Ø 4 mm OD tube or G 1/8
PRESSURE	: 0 to 10 bar
TEMPERATURE	: -5°C to +60°C
FLOW (Qv at 6 bar)	: 280 l/min (ANR)
Ø NOMINAL	: 3,5 mm

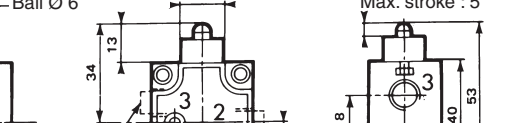
CONSTRUCTION

Spool and poppet design closed centre
 Body zinc diecasting
 Internal parts POM (acetal)
 Sealing NBR (nitrile)



CHOICE OF EQUIPMENT

FUNCTION NC Normally closed			 1 = Pressure 2 = Outlet 3 = Exhaust		
Type	Description	Effort (daN)	CODES		
			Head ALONE	ASSEMBLY (valve + head)	
				Instant fittings	G 1/8
—	Valve alone BODY NC	5	—	31090002	31090001
	Lever roller acetal	2	88131001	31000011	31000004
	One way trip acetal	1,5	88131002	31000012	31000005
	Lever roller metal	2	88131005	31000013	31000006



Technical drawing of the 3-Port G 1/8" component, showing three views: front, side, and top.

Front View (Left): Shows a square base with a width of 25 mm and a height of 19 mm. A central circular feature is labeled "2". A ball joint is attached to the top, labeled "Ball Ø 6".

Side View (Middle): Shows the component's profile with a total height of 34 mm. The top section has a height of 13 mm. The base has a width of 39 mm. A central circular feature is labeled "3". A ball joint is attached to the top, labeled "Ø 15 h11".

Top View (Right): Shows the component's top surface with a width of 35 mm and a height of 53 mm. The base has a width of 39 mm. The top section has a height of 18 mm. The central circular feature is labeled "3". A ball joint is attached to the top, labeled "Stroke : 3,5" and "Max. stroke : 5".

Annotations:

- "Instant fittings" points to the ball joint.
- "2 mountings holes for M4" points to the two mounting holes on the side view.
- "3 ports G 1/8" or instant fittings" points to the three ports on the top view.

Technical drawing of the M6000-10000 hydraulic cylinder. The drawing shows the main body with three ports labeled 1, 2, and 3. Port 1 is at the bottom center, port 2 is at the top right, and port 3 is at the top left. The main body has a diameter of Ø 19 thick 14. The total height is 80. The distance from the base to the top of the main body is 61. The distance from the base to the top of the main body is 18. The distance from the base to the top of the main body is 19. The distance from the base to the top of the main body is 35. The distance from the base to the top of the main body is 21. The distance from the base to the top of the main body is 30 at Max stroke. Stroke : 5. Max. stroke : 9.

Weight : 0,110 kg

Width 11

Stroke : 7

Max. Stroke : 9

56 mini

18

36 at Max. stroke

82

3

2

1

11

19

35

3 ports G 1/8 or instant fittings

101

Ø 18 thick 11,5

37 40 at Max. stroke

Stroke : 5
Max stroke : 7

59 78

18 3 2 1 6 5 4

19 35 11

3 ports G 1/8
or instant fittings

SPECIFICATIONS

FLUID	: Air or neutral gas, filtered, lubricated
PRESSURE	: 0 to 10 bar
TEMPERATURE	: -10°C to +60°C
FUNCTIONS	: 3/2 - 5/2
PORTS	: G 1/8
FLOW (Qv at 6 bar)	: 200 l/min (ANR)

CONSTRUCTION

Body anodized light alloy
Covers light alloy and acetal (POM)
Internal parts light alloy
Sealing NBR (nitrile)
Lever and tappet steel
The 3/2 spool valve can be used as a 3/2 NC or 3/2 NO version, by connecting as indicated opposite



Ports of 3/2	
NC	NO
1 = Pressure	Exhaust
2 = Outlet	Outlet
3 = Exhaust	Pressure
Ports of 5/2	
1 = Pressure	
2,4 = Outlets	
3,5 = Exhausts	

CHOICE OF EQUIPMENT

	Symbols Functions	Operators		Operating effort (daN)	CODES
		Pilot	Return		
3/2		Roller-lever	Spring	2	55000046
		Tappet	Spring	3	55000047
5/2		Roller-lever	Spring	2	55000012
		Tappet	Spring	3	55000052

OPTION

Mini spool valve with one way trip (contact us).

MINI SPOOL VALVE MECHANICALLY OPERATED SERIES 550

DIMENSIONS AND WEIGHTS

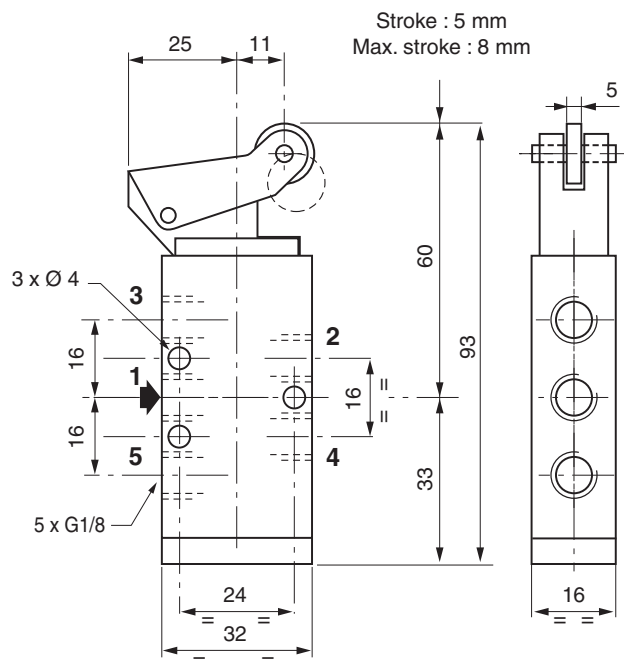
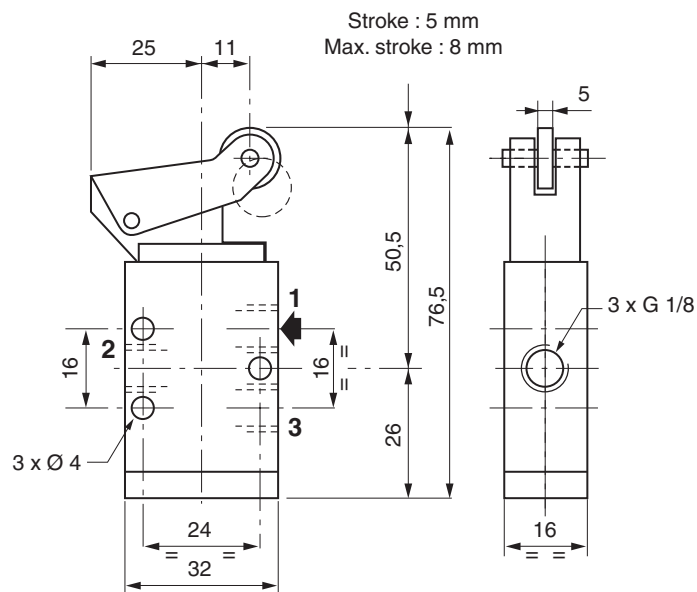
3/2

ROLLER-LEVER

Weight : 77 g

5/2

Weight : 86 g

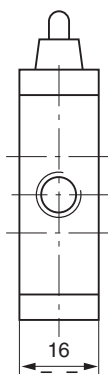
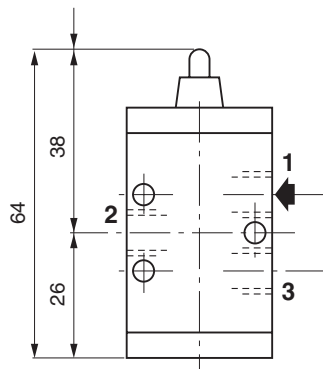


TAPPET

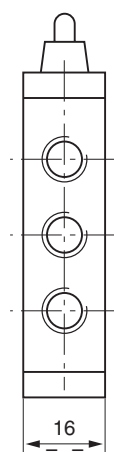
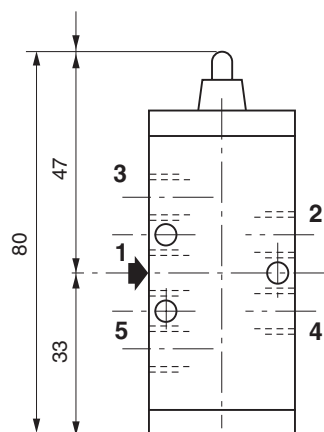
Weight : 60 g

Weight : 76 g

Stroke : 3 mm
Max. stroke : 5,5 mm



Stroke : 3 mm
Max. stroke : 5,5 mm





SPOOL VALVE

mechanically operated

G 1/4

3/2-5/2
Series
551

SPECIFICATIONS

FLUID	: Air or neutral gas, filtered, lubricated or not
PORTS	: G 1/4
PRESSURE	: 0 to 10 bar
TEMPERATURE	: -25°C to +60°C
FLOW (Qv at 6 bar)	: 860 l/min (ANR)

CONSTRUCTION

Environmentally-protected construction
 Spool valve
 Body: treated aluminium
 Internal parts: zinc diecasting, steel, stainless steel, acetal (POM)
 Seals: NBR (nitrile) and PUR (polyurethane)



1 = Pressure
 2,4 = Outlets
 3,5 = Exhausts

CHOICE OF EQUIPMENT

[Configurator - CAD Files](#)

Type	Pilot	Return	Operating effort (daN)	CODES
3/2 	Roller	Spring	4,8	55102084
5/2 	Roller	Spring	4,8	55102087

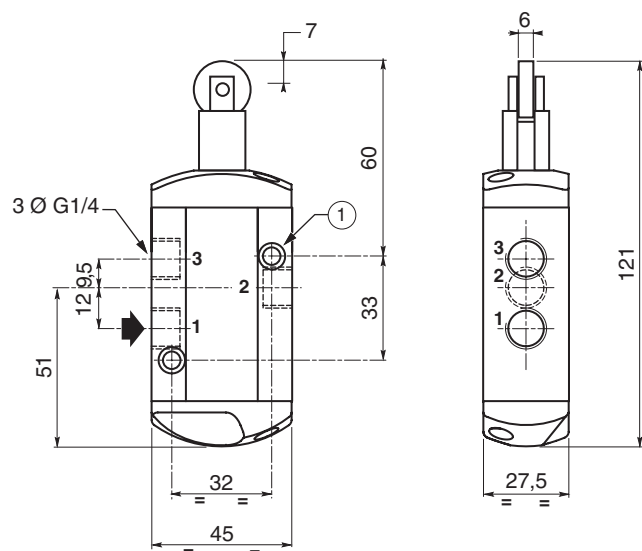
Note: do not connect the pressure supply to the exhaust port 3. For a "distributing" function or use in NO function, contact us.

DIMENSIONS AND WEIGHTS

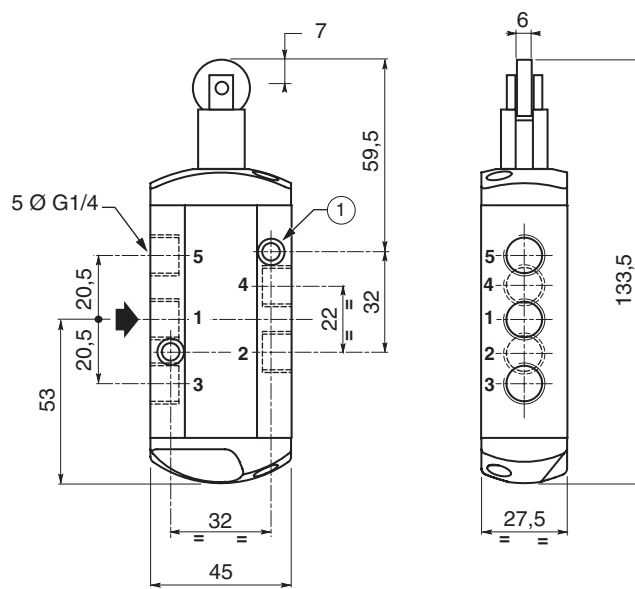
ROLLER

[Configurator - CAD Files](#)**3/2**

Weight: 0,250 kg

**5/2**

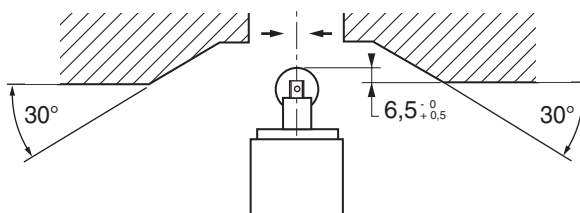
Weight: 0,285 kg



① 2 fixing holes: Ø 5,3 - counterbore : Ø 9, dept 5

Cam angles

Maximum speed: 0,3 m/s



SPECIFICATION

FLUID	: Air or neutral gas, filtered, lubricated
PRESSURE	: 2,5 to 10 bar
TEMPERATURE	: +10°C to +40°C
FLOW (Qv at 6 bar)	: 406 l/min (SRA)
Ø NOMINAL	: 4 mm
PORTS	: G 1/8
FUNCTION	: 3/2 NC - 3/2 NO
LIFE	: 10 million cycles
CONFORMING to CNOMO standard 06-05-25	

CONSTRUCTION

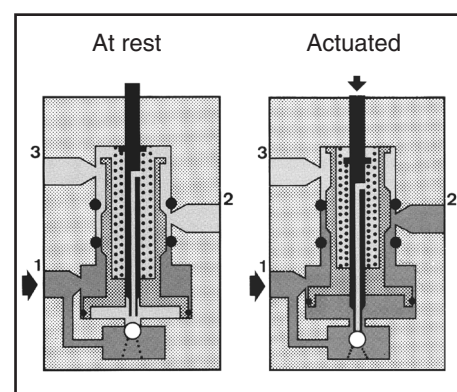
Pilot operated spool valve features:

- **snap-action** operation
- low actuating force

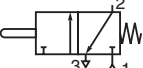
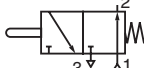
Body: light alloy

Internal parts: stainless steel and light alloy

Sealings: NBR (nitrile)



CHOICE OF EQUIPMENT

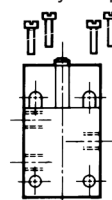
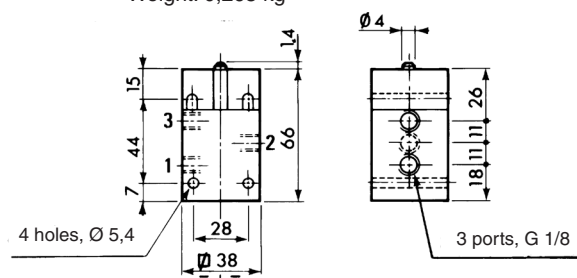
OPERATING HEADS			CODES		
			HEAD ALONE	COMPLETE PILOT VALVE	
				NC function 	NO function 
Type	Designation	Mechanical actuation			
	Pilot valve without operating head		-	32000001	32000002
	Pilot valve with mounting screws		-	32000065	32000066
	Single lever	Right and left	88132001	32000039	32000052
		Right or left	88132002	32000040	32000053
	Adjustable lever	Right and left	88132019	32000041	32000054
		Right or left	88132020	32000042	32000055
	Flexible rod lever	Right and left	88132021	32000043	32000056
		Right or left	88132029	32000044	32000057
	Forked one-track roller	Maintained position	88132022	32000045	32000058
	Top roller plunger	Operating force 1,3 daN	88132023	32000046	32000059
	Horizontal side roller plunger	Operating force 2,6 daN	88132024	32000047	32000060

PILOT VALVE MECHANICALLY OPERATED SERIES 320

DIMENSIONS AND WEIGHTS

Pilot valve without operating head
Weight: 0,265 kg

Pilot valve with 4 CM4 screws, 33 long,
for on-site assembly of operating head

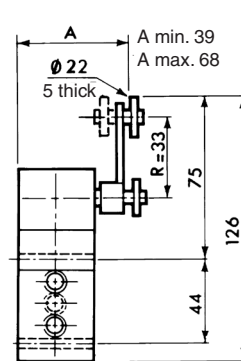
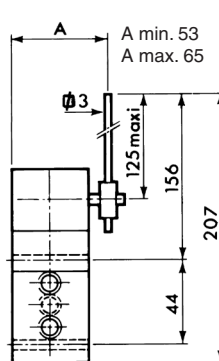
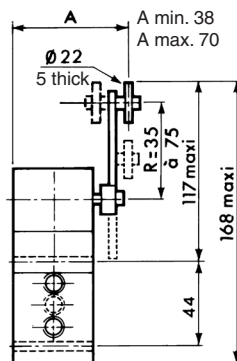
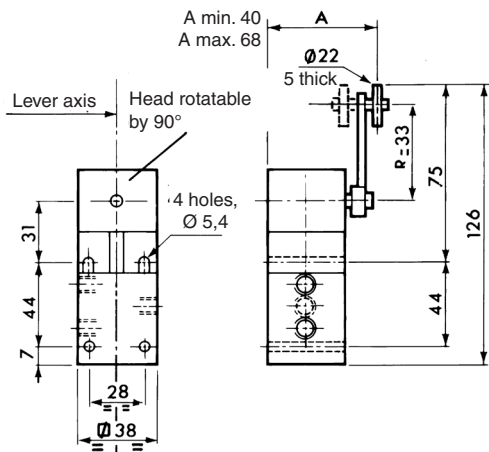


Single lever
Weight: 0,505 kg

Adjustable lever
Weight: 0,515 kg

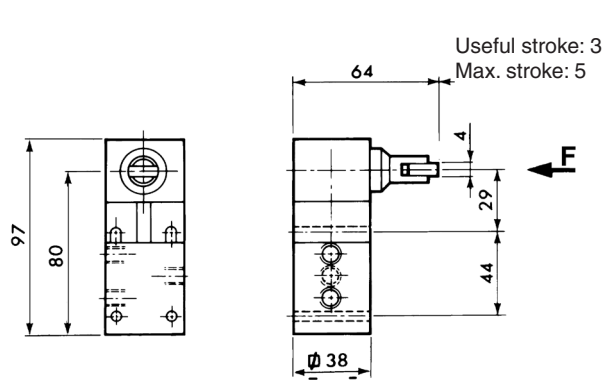
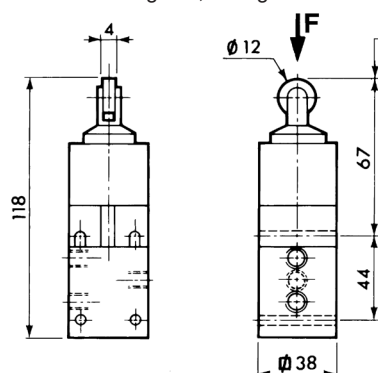
Flexible rod lever
Weight: 0,505 kg

Forked one-track roller
Weight: 0,530 kg



Top roller plunger
Weight: 0,465 kg

Horizontal side roller plunger
Weight: 0,510 kg



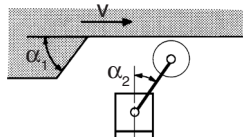
ASSEMBLY

● **SINGLE, ADJUSTABLE OR FLEXIBLE LEVER HEADS**
RIGHT OR LEFT ACTUATION

Actuation speed (v)	Cam angle (α_1)	Lever position (α_2)*
$\leq 1,5$ m/s	30° max.	$0 < \alpha_2 < 35^\circ$
$1,5 < v < 5$ m/s	10° max.	$0 < \alpha_2 < 55^\circ$

Max. travel: 75° from rest position.

* A pre-travel** of 25° must be added to the positioning ranges 0° to 35° and 0° to 55°.

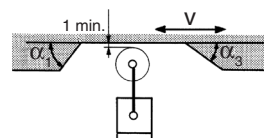


RIGHT AND LEFT ACTUATION

Actuation speed (v)	α_1 and α_3
$\leq 1,5$ m/s	max. 30°
$1,5 < v < 5$ m/s	max. 10°

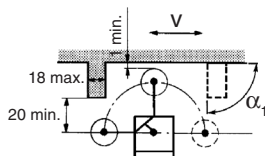
Max. travel: 75° on either side of the rest position.

Pre-travel^{**}: 25° on either side of the rest position.



- FORKED ONE-TRACK ROLLER, MAINTAINED POSITION

Actuation speed (v)	Cam angle (α_1)
$\leq 0,5 \text{ m/s}$	$45^\circ < \alpha_1 < 90^\circ$



- **ROLLER HEADS**

These completely interchangeable heads can take 4 positions at 90° to the vertical axis of the device. The direction of actuation is indicated by the arrow F (actuation speed: 0,25 m/s).



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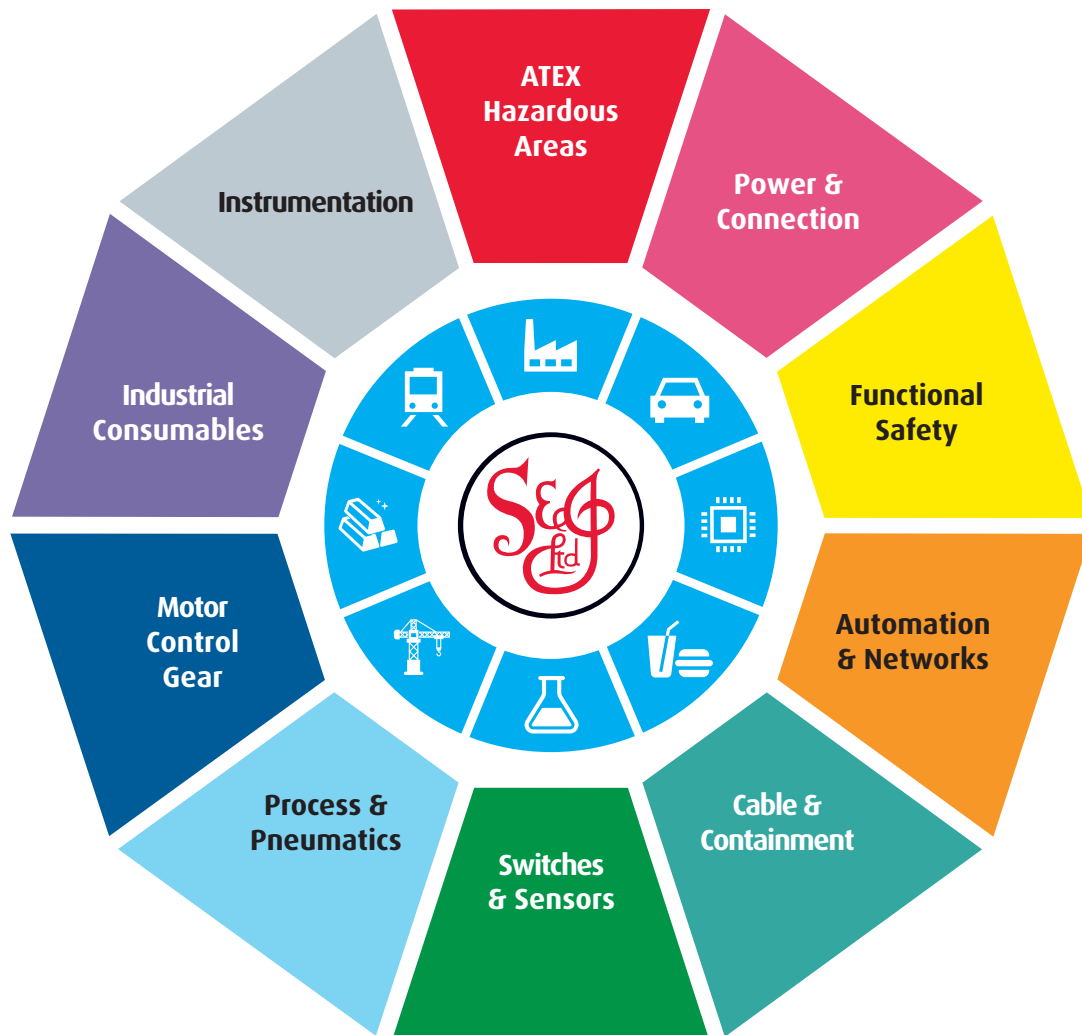
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