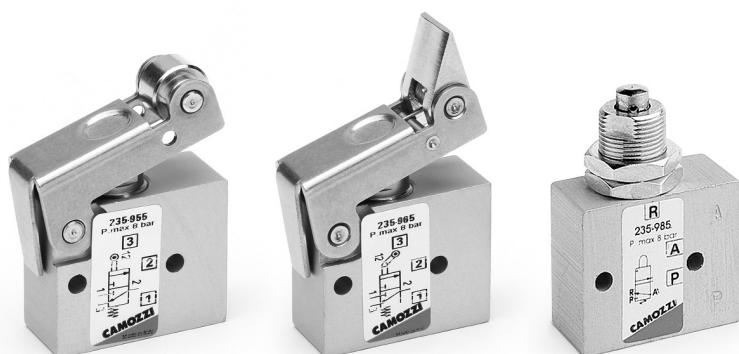


Series 2

mechanically operated minivalves

3/2-way

Ports M5, cartridge \varnothing 4


Series 2 mechanically operated miniature valves, 3/2-way normally closed, are available with M5 threaded ports or with an integrated super-rapid fitting for \varnothing 4mm tubes. The devices are actuated by a plunger, roller/lever or a unidirectional lever.

GENERAL DATA

Construction	poppet type
Valve group	3-way/2-position
Materials	aluminium body, brass plunger, NBR seals
Mounting	by means of screws in the through-holes of the valve body
Ports	M5, \varnothing 4mm cartridge
Room temperature	0°C ÷ 60°C
Fluid temperature	0°C ÷ 50°C
Operating pressure	0 bar ÷ 10 bar
Fluid	Filtered air, without lubrication. If lubricated air is used, it is recommended to use ISO VG32 oil. Once applied the lubrication should never be interrupted.

CODING EXAMPLE

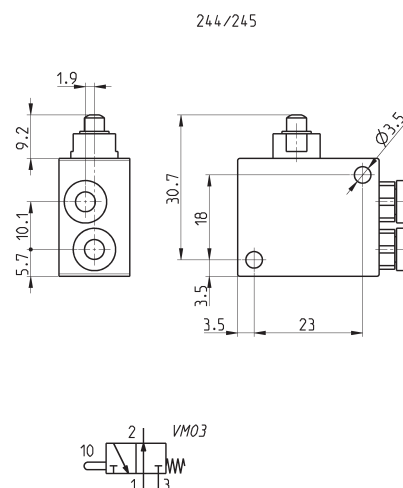
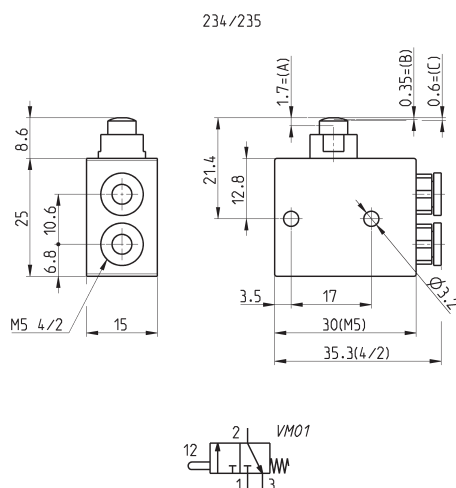
2	3	4	-	94	5
---	---	---	---	----	---

2	SERIES
3	FUNCTION 3 = 3/2-way NC 4 = 3/2-way NO
4	PORTS 4 = cartridge \varnothing 4mm 5 = M5
94	ACTUATION 94 = plunger 95 = lever/roller 96 = unidirectional lever 98 = plunger, panel mounting
5	RESETTING 5 = spring return

Minivalves with plunger

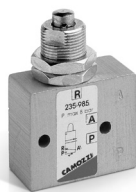


DRAWING LEGEND
A = total stroke
B = pre-stroke
C = effective stroke



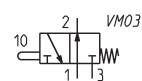
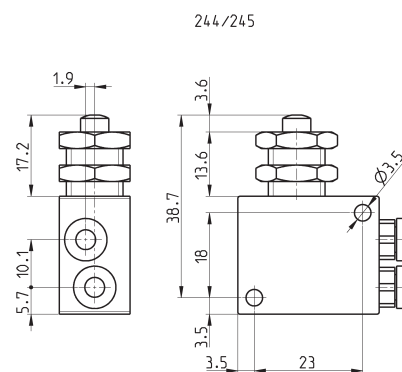
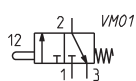
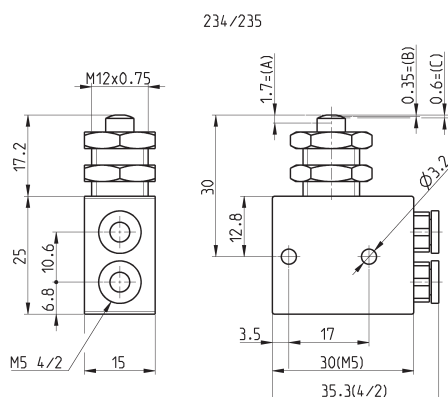
Mod.	Operating pressure (bar)	Flow Qn (Nl/min)	Actuating force at 6 bar (N)	SYMBOL
234-945	0 ÷ 10	60	6	VM01
235-945	0 ÷ 10	60	6	VM01
244-945	0 ÷ 10	60	6	VM03
245-945	0 ÷ 10	60	6	VM03

Minivalves with plunger, panel mounting



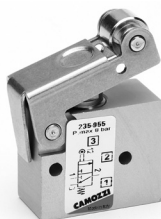
DRAWING LEGEND

A = total stroke
B = pre-stroke
C = effective stroke



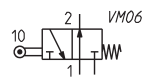
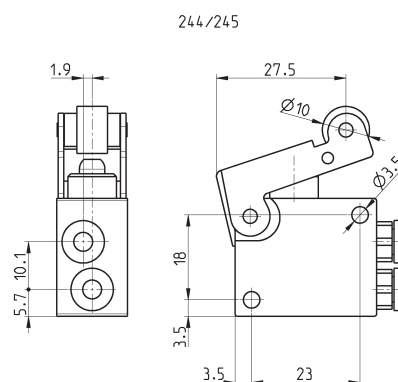
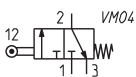
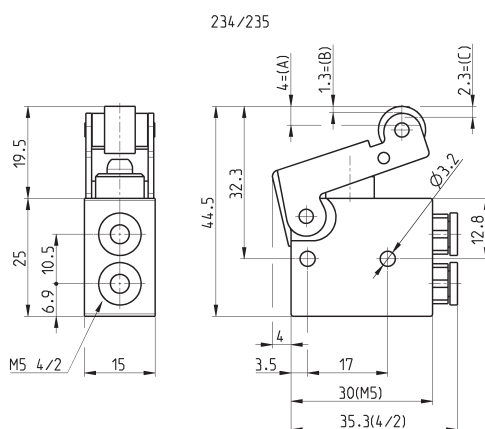
Mod.	Operating pressure (bar)	Flow Qn (Nl/min)	Actuating force at 6 bar (N)	SYMBOL
234-985	0 + 10	60	6	VM01
235-985	0 + 10	60	6	VM01
244-985	0 + 10	60	6	VM03
245-985	0 + 10	60	6	VM03

Minivalves with lever/roller



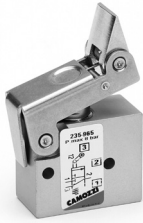
DRAWING LEGEND

A = total stroke
B = pre-stroke
C = effective stroke

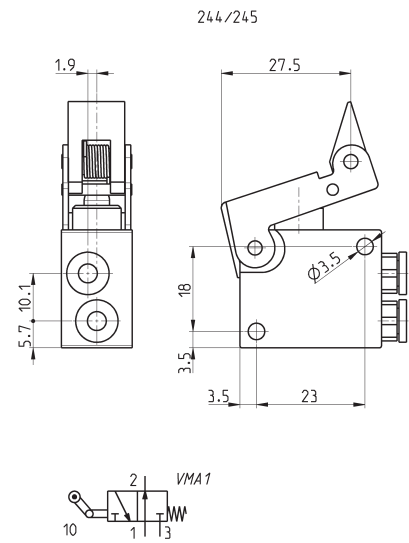
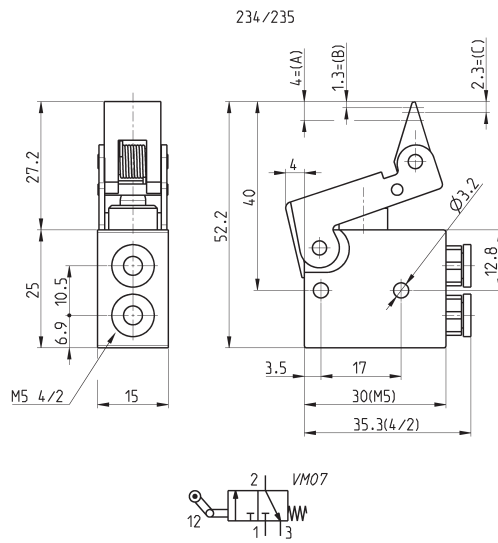


Mod.	Operating pressure (bar)	Flow Qn (Nl/min)	Actuating force at 6 bar (N)	SYMBOL
234-955	0 + 10	60	6	VM04
235-955	0 + 10	60	6	VM04
244-955	0 + 10	60	6	VM06
245-955	0 + 10	60	6	VM06

Minivalves, unidirectional lever



DRAWING LEGEND
 A = total stroke
 B = pre-stroke
 C = effective stroke



Mod.	Operating pressure (bar)	Flow Qn (Nl/min)	Actuating force at 6 bar (N)	SYMBOL
234-965	0 ÷ 10	60	6	VM07
235-965	0 ÷ 10	60	6	VM07
244-965	0 ÷ 10	60	6	VMA1
245-965	0 ÷ 10	60	6	VMA1

Series 1 and 3 mechanically operated valves

Series 1: 3/2-way and 5/2-way, ports G1/8 and G1/4

Series 3: 3/2-way and 5/2-way, ports G1/8



These mechanically operated valves have been designed with three different types of actuation:

- plunger
- lever/roller
- unidirectional lever/roller

In each case, return is triggered by a mechanical spring.

Series 3 3/2-way monostable valves are normally closed in the rest position when pressure is supplied in 1 and are normally open when pressure is supplied on connection 3, the user port 2 remaining unchanged.

Series 3 5/2-way valves can be supplied via the ports 3 and 5 with two different pressures if a cylinder has to be operated using a delivery pressure which is different from the return pressure.

GENERAL DATA

Construction	spool-type (Series 3), poppet-type (Series 1)
Valve group	3/2, 5/2 way/pos.
Materials	aluminium body, poppet OT58, stainless steel spool, NBR seals
Ports	G1/8, G1/4
Ambient temperature	0°C÷ 60°C
Medium temperature	0°C÷ 50°C
Operating pressure	see models
Fluid	Filtered air, without lubrication. If lubricated air is used, it is recommended to use ISO VG32 oil. Once applied the lubrication should never be interrupted.

CODING EXAMPLE

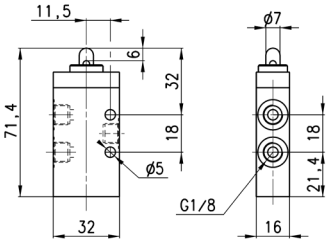
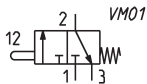
3	3	8	-	94	5
3	SERIES: 1 3				
3	FUNCTION: 3 = 3/2 ways NC 4 = 3/2 ways NO (only Series 1) 5 = 5/2 ways				
8	PORTS: 8 = G1/8 4 = G1/4 (only Series 1)				
94	ACTUATION: 94 = plunger 95 = lever/roller 96 = unidirectional roller				
5	RESETTING: 5= spring return				

2

CONTROL

Valve Mod. 338-945

Operating pressure = -0,9 ÷ 10 bar
Flow rate = 700 NI/min.
Actuating force = 32N



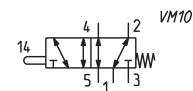
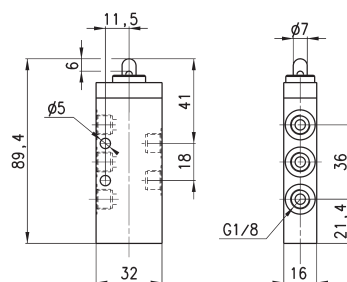
Mod.

338-945



Valve

Operating pressure = $-0,9 \div 10$ bar
 Flow rate = 700 NI/min.
 Actuating force = 35N



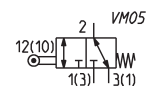
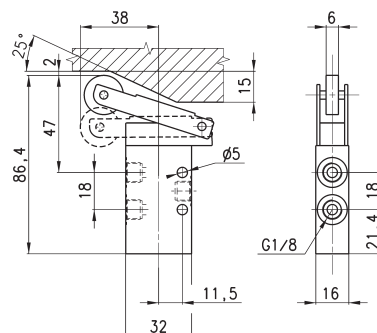
Mod.

358-945



Valve

Operating pressure = $-0,9 \div 10$ bar
 Flow rate = 700 NI/min.
 Actuating force = 15N



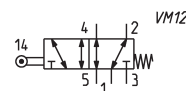
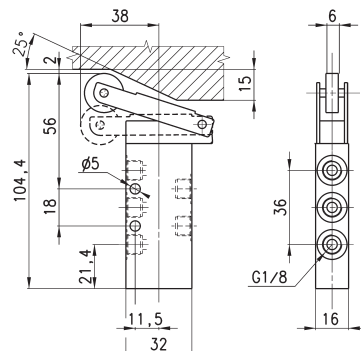
Mod.

338-955



Valve

Operating pressure = $-0,9 \div 10$ bar
 Flow rate = 700 NI/min.
 Actuating force = 17N



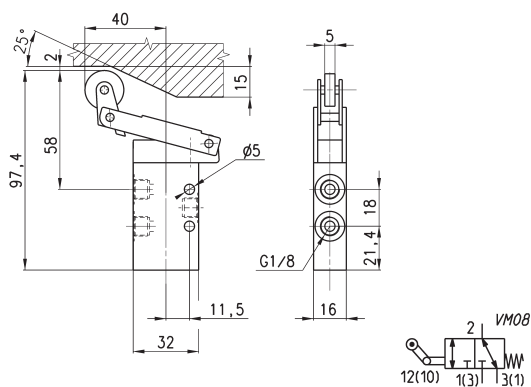
Mod.

358-955



Valve

Operating pressure = $-0,9 \div 10$ bar
 Flow rate = 700 NI/min.
 Actuating force = 15N



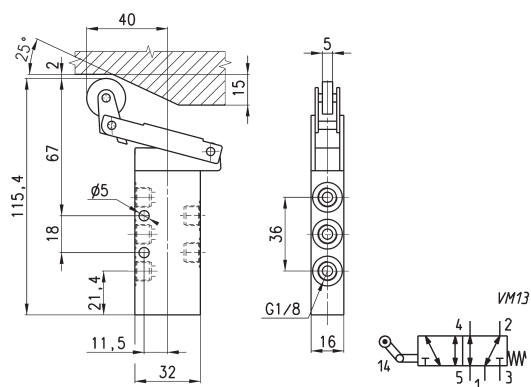
Mod.

338-965



Valve

Operating pressure = $-0,9 \div 10$ bar
 Flow rate = 700 NI/min.
 Actuating force = 16N



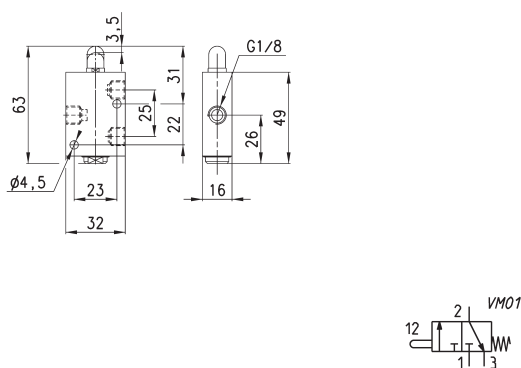
Mod.

358-965



Valve

Operating pressure = $0 \div 10$ bar
 Flow rate = 500 NI/min.
 Actuating force at 6 bar = 70N



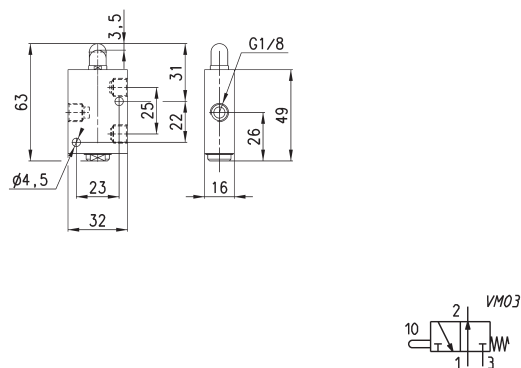
Mod.

138-945



Valve

Operating pressure = $0 \div 10$ bar
 Flow rate = 500 NI/min.
 Actuating force at 6 bar = 70N



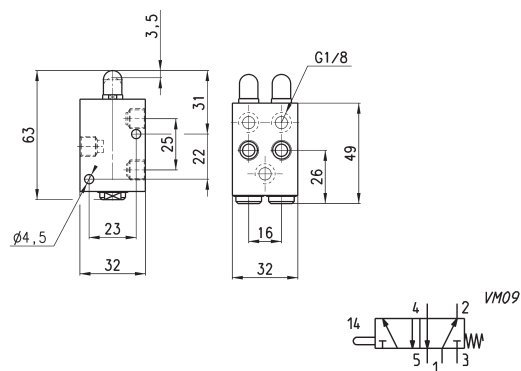
Mod.

148-945



Valve

Operating pressure = 0 ÷ 10 bar
Flow rate = 500 NI/min.
Actuating force at 6 bar = 120N



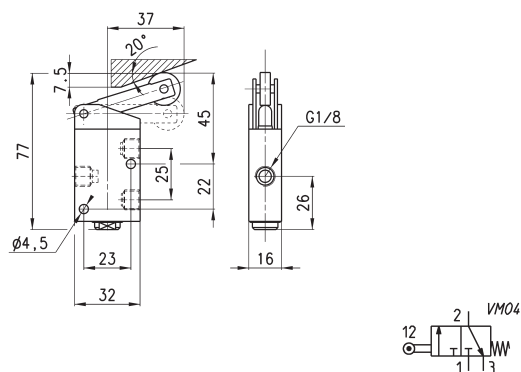
Mod.

158-945



Valve

Operating pressure = 0 ÷ 10 bar
Flow rate = 500 NI/min.
Actuating force at 6 bar = 36N



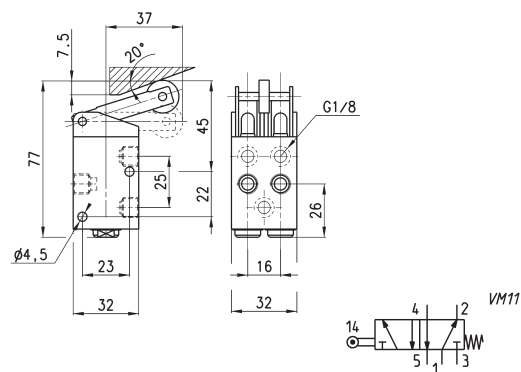
Mod.

138-955



Valve

Operating pressure = 0 ÷ 10 bar
Flow rate = 500 NI/min.
Actuating force at 6 bar = 92N



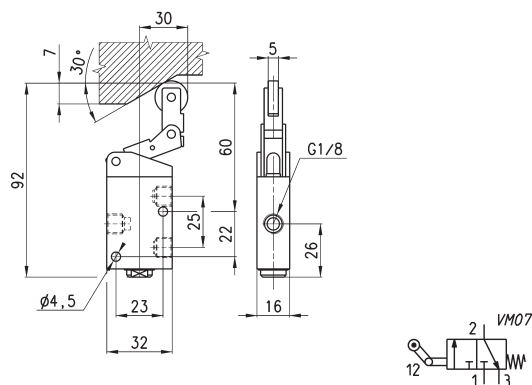
Mod.

158-955



Valve

Operating pressure = 0 ÷ 10 bar
Flow rate = 500 NI/min.
Actuating force at 6 bar = 41N



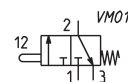
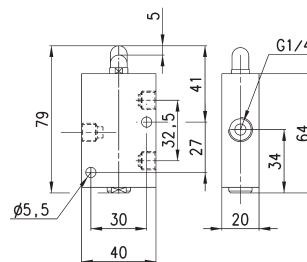
Mod.

138-965



Valve

Operating pressure = 0 ÷ 10 bar
Flow rate = 1250 Nl/min.
Actuating force at 6 bar = 64N



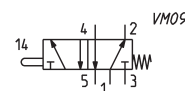
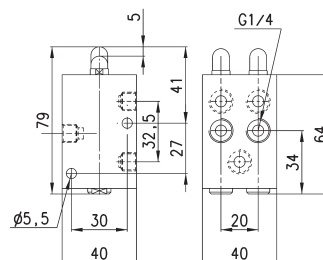
Mod.

134-945



Valve

Operating pressure = 0 ÷ 10 bar
Flow rate = 1250 Nl/min.
Actuating force at 6 bar = 147N



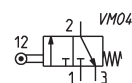
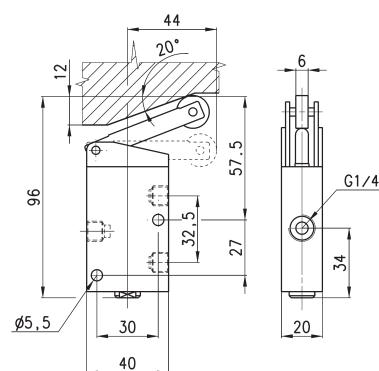
Mod.

154-945



Valve

Operating pressure = 0 ÷ 10 bar
Flow rate = 1250 Nl/min.
Actuating force at 6 bar = 41N



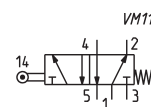
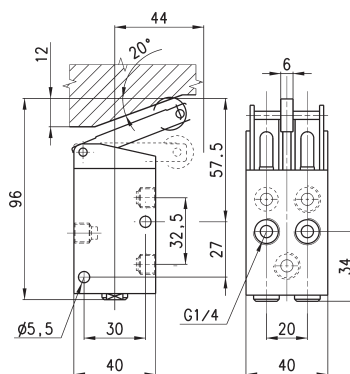
Mod.

134-955



Valve

Operating pressure = 0 ÷ 10 bar
Flow rate = 1250 NI/min.
Actuating force at 6 bar = 110N

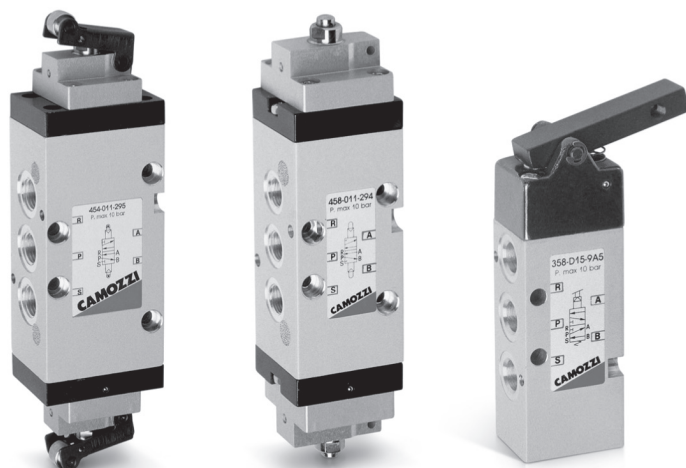


Mod.

154-955

Series 3 and 4 mechanically operated sensor valves

3/2 and 5/2-way
Ports G1/8, G1/4



The particular mechanical device allows these end-stroke valves to operate with very low actuating forces. Series 3 has been designed with a mechanical lever device which works in negative pressure. To increase sensitivity it is possible to add to the lever a steel extension with $\varnothing 3$ mm.

GENERAL DATA

Construction	spool-type (servocontrolled)
Valve group	3/2, 5/2 way/pos.
Materials	aluminium body, stainless steel spool, NBR seals
Ports	G1/8, G1/4
Ambient temperature	0°C ÷ 60°C
Medium temperature	0°C ÷ 50°C
Operating pressure	see models
Fluid	Filtered air, without lubrication. If lubricated air is used, it is recommended to use ISO VG32 oil. Once applied the lubrication should never be interrupted.

CODING EXAMPLE

3	3	8	-	D15	-	9A5
3	SERIES: 3 4					
3	FUNCTION: 3 = 3/2-way NC 4 = 3/2-way NO 5 = 5/2-way					
8	PORTS: 8 = G1/8 4 = G1/4					
D15	ACTUATION: D15 = pressure drop/spring 015 = pressure/spring 011 = pressure/pressure					
9A5	DEVICES: 9A5 = lever sensor, spring return 194 = plunger sensor, spring return 294 = plunger sensor, bistable 195 = lever/roller, spring return 295 = lever/roller, bistable					

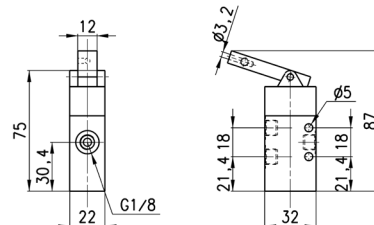
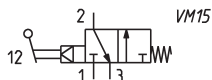
Valve

Operating pressure = 4 ÷ 10 bar.

Flow rate = 700 NI/min.

Actuating force at 6 bar = 2N

The function of the valve is indicated by the symbol when operating between 4 and 10 bar.



Mod.

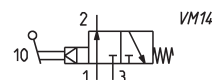
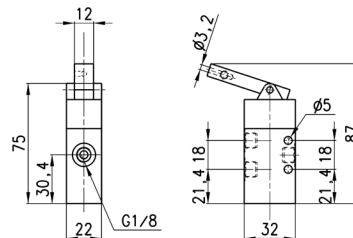
338-D15-9A5



Valve

Operating pressure = $4 \div 10$ bar
Flow rate = 700 NI/min
Actuating force at 6 bar = 2N

The function of the valve is indicated by the symbol when operating between 4 and 10 bar.



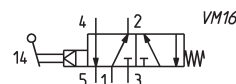
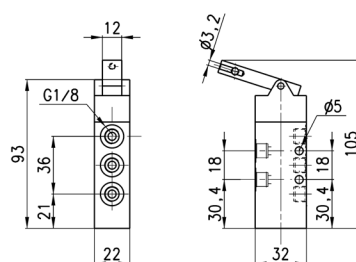
Mod.

348-D15-9A5


Valve

Operating pressure = $4 \div 10$ bar
Flow rate = 700 NI/min
Actuating force at 6 bar = 2N

The function of the valve is indicated by the symbol when operating between 4 and 10 bar.



Mod.

358-D15-9A5

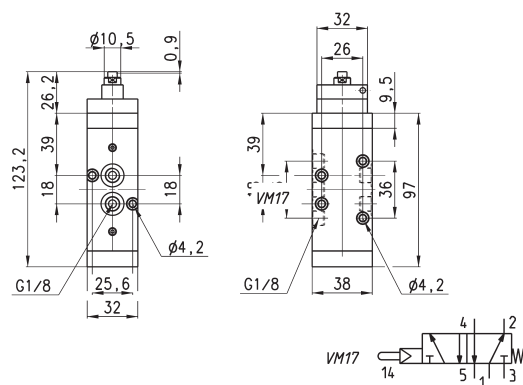
Valve

Operating pressure = 2.5 ÷ 8 bar
Flow rate = 650 NI/min.
Actuating force at 6 bar = 6 N



Mod.

458-015-194



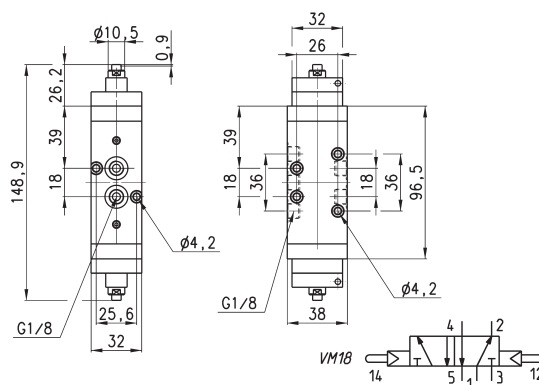
Valve

Operating pressure = 2 ÷ 8 bar
Flow rate = 650 NI/min
Actuating force at 6 bar = 6 N



Mod.

458-011-294



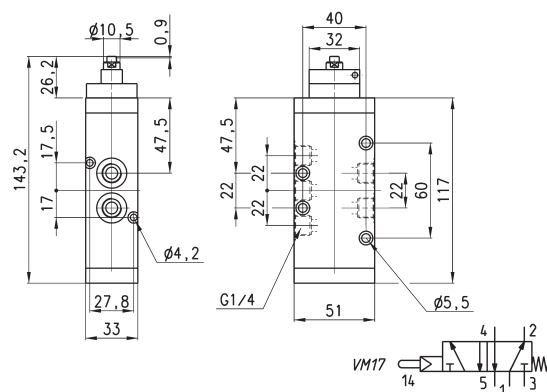
Valve

Operating pressure = 2.5 ÷ 8 bar
Flow rate = 1250 NI/min
Actuating force at 6 bar = 6 N



Mod.

454-015-194



Valve

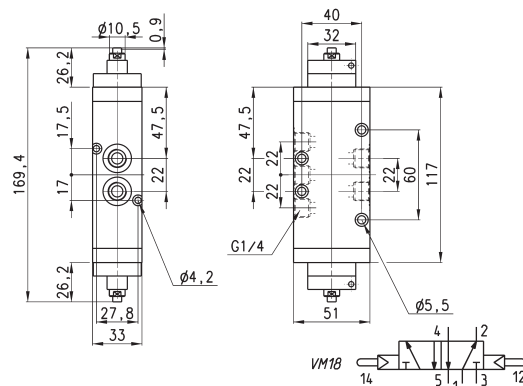
Operating pressure: 2 ÷ 8 bar
Flow rate = 1250 NI/min
Actuating force at 6 bar = 6 N



DIMENSIONS

Mod.

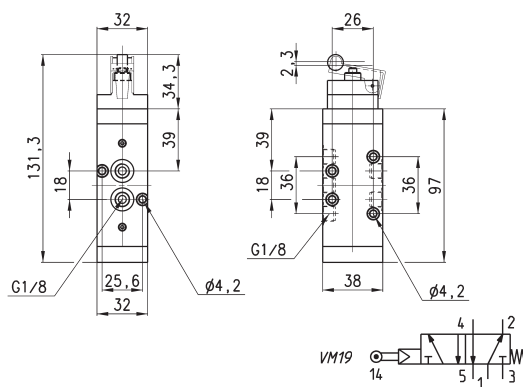
454-011-294





Valve

Operating pressure = 2.5 ÷ 8 bar
Flow rate = 650 NI/min
Actuating force at 6 bar = 4 N



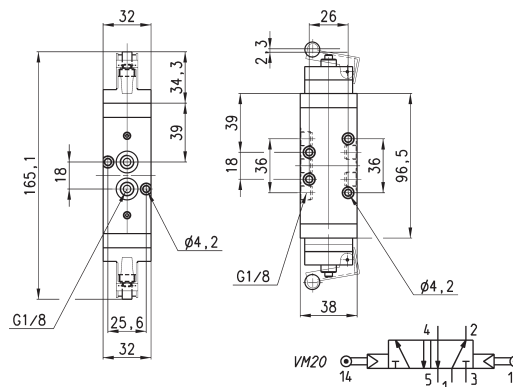
Mod.

458-015-195



Valve

Operating pressure = 2 ÷ 8 bar
Flow rate = 650 NI/min
Actuating force at 6 bar = 4 N



DIMENSIONS

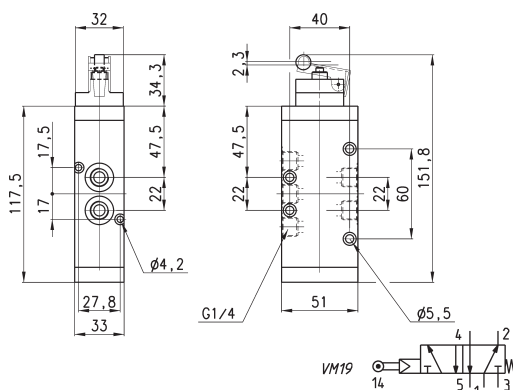
Mod.

458-011-295



Valve

Operating pressure = 2.5 ÷ 8 bar
Flow rate = 1250 NI/min.
Actuating force at 6 bar = 4 N



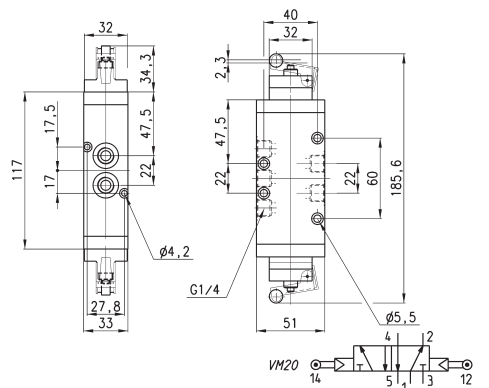
Mod.

454-015-195



Valve

Operating pressure = 2 ÷ 8 bar
Flow rate = 1250 NI/min
Actuating force at 6 bar = 4 N



Mod.

454-011-295

Foot operated pedal

Electrical and pneumatic - Series 3

Pneumatic - Series 2

Series 3: G1/4, 5/2-way - NC / NO contacts

Series 2: M5; 4/2 tube; 3/2-way NC

2

CONTROL



The pedals can be supplied in either a pneumatic or electrical foot operated version. The pneumatic type is available with a 5/2 valve and G1/4 front ports, which allow the fittings and silencers to be assembled conveniently on the front face. A 3/2 operation can be obtained by closing an outlet port.

The electrical type is available with a single-pole changeover contact microswitch and a front wire outlet (PG9).

The pedal can be operated as bistable or monostable, by switching the selector placed under the small red protection flap, as shown in the drawing.

GENERAL DATA

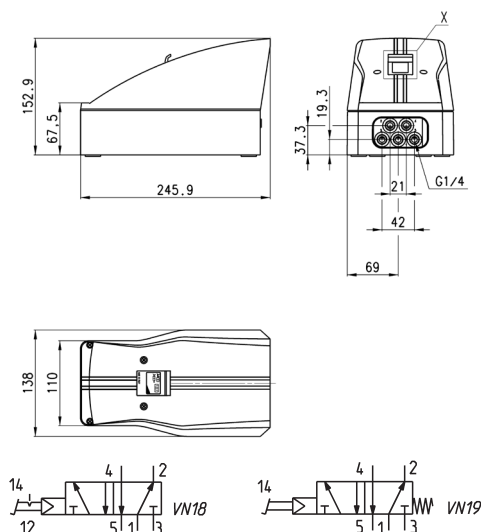
Construction	spool-type
Valve group	5/2, 3/2 NC way/pos.
Materials	- Series 3: aluminium body - stainless steel spool - NBR seals - plastic casing - Series 2: aluminium body - OT58 poppet - NBR seals.
Ports	- Series 3: G1/4 gas - Series 2: M5; tube 4/2.
Ambient temperature	0°C ÷ 50 °C (with dry air at - 10°C)
Medium temperature	0°C ÷ 50 °C
Construction	single-pole changeover contact microswitch
Cable entry	by means of wire PG9
Protection class	IP20
Fluid	Filtered air, without lubrication.

If lubricated air is used, it is recommended to use ISO VG32 oil. Once applied the lubrication should never be interrupted.



Pneumatic foot operated pedal Series 3

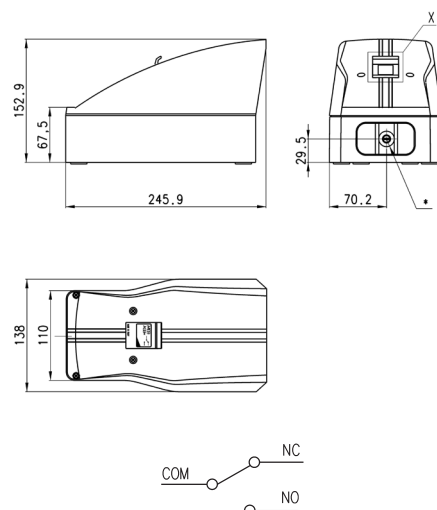
Actuating force at 6 bar = 17N
Operating pressure = 2,5 ÷ 8 bar
Flow rate = 650NI/min.



Mod.	Symbol
354N-925	VN18 - VN19



Electrical foot operated pedal Series 3

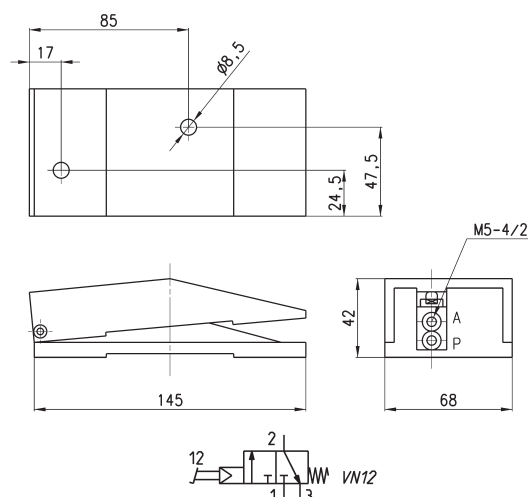


Mod.
3E2-925



Pneumatic foot operated pedal Series 2

Operating pressure = 2 ÷ 8 bar
Flow rate = 60 NI/min.



Mod.
234-925
235-925

Series 2

manually operated console minivalves

3/2 and 5/3-way CC, CO, CP
Ports M5, Cartridge Ø 4

2

CONTROL



This series of miniature valves has been especially designed to satisfy all the application requirements of the controls industry with particular attention paid to the operating characteristics required from these components:

- short operational stroke
- small dimensions

GENERAL DATA

Valve group	3/2-way
Construction	poppet-type (closed centres)
Materials	aluminium body, brass plunger, NBR seals
Mounting	panel
Ports	M5 or cartridge dia. 4
Ambient temperature	0°C ÷ 60°C
Medium temperature	0°C ÷ 50°C
Operating pressure	see models

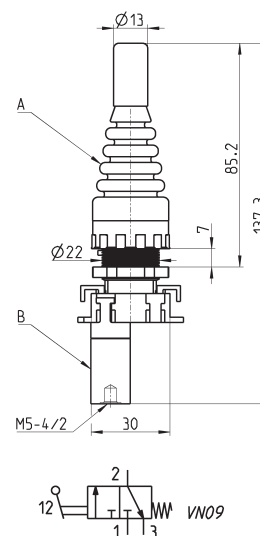
CODING EXAMPLE

2	3	4	-	97	5
---	---	---	---	----	---

2	SERIES
3	FUNCTION: 3 = 3/2-way NC 4 = 3/2-way NO 8 = 5/3-way CO (function realized with 2x 3/2-way NC valves)
4	PORTS: 4 = cartridge ø 4 5 = M5
97	MODE OF OPERATION: 87 = 3 position selector 89 = push button 97 = palm switch 90 = joystick 99 = 2 position selector 92 = pedal 904 = key
5	RESETTING: 5 = spring return 0 = stable 2 = latching-twist to release 54= joystick

Minivalves

Operating pressure = 2 ÷ 8 bar
Flow rate = 60 NI/min.

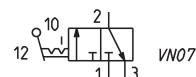
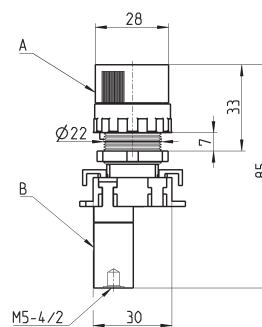


Mod.	A	B
234-905	200-905	234-000
235-905	200-905	235-000



Minivalves

Operating pressure = 2 ÷ 8 bar
Flow rate = 60 NI/min.

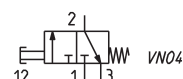
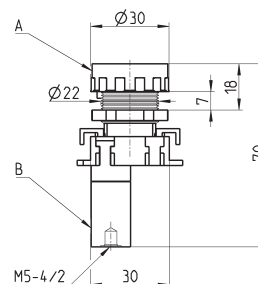


Mod.	A	B
234-990	200-990	234-000
235-990	200-990	235-000



Minivalves

Operating pressure = 2 ÷ 8 bar
Flow rate = 60 NI/min.
Actuating force at 6 bar = 7 N

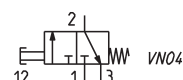
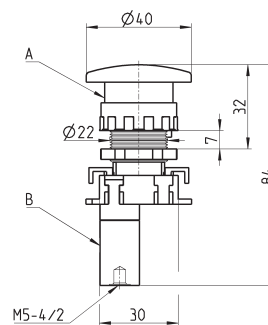


Mod.	A	B
234-895	200-895	234-000
235-895	200-895	235-000



Minivalves

Operating pressure = 2 ÷ 8 bar
Flow rate = 60 NI/min.
Actuating force at 6 bar = 7 N

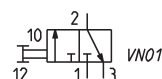
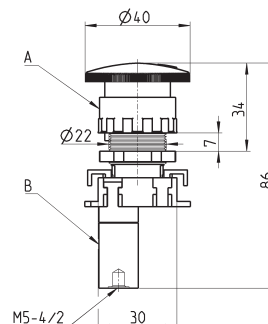


Mod.	A	B
234-975	200-975	234-000
235-975	200-975	235-000



Minivalves

Operating pressure = 2 ÷ 8 bar
Flow rate = 60 NI/min.
Actuating force at 6 bar = 7 N

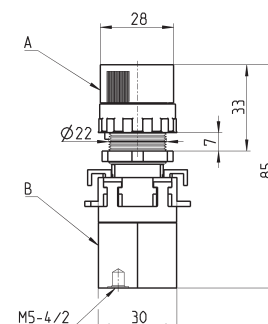


Mod.	A	B
234-972	200-972	234-000
235-972	200-972	235-000



Minivalves

Operating pressure = 2 ÷ 8 bar
Flow rate = 60 NI/min.

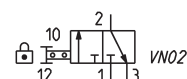
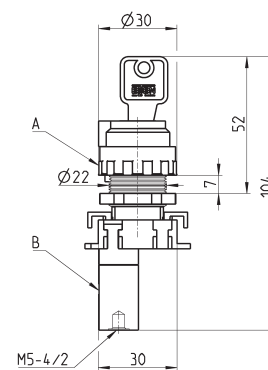


Mod.	A	B
284-870	200-870	284-000
285-870	200-870	285-000



Minivalves

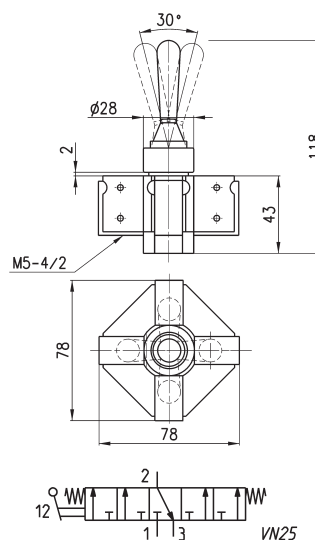
Operating pressure = 2 ÷ 8 bar
Flow rate = 60 NI/min.



Mod.	A	B
234-904	200-904	234-000
235-904	200-904	235-000

Joystick valves

Minimum pressure = 2 bar



Mod.

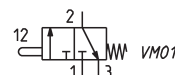
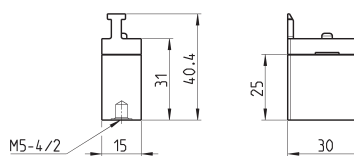
234-9054

235-9054

2

CONTROL

Minivalves

Operating pressure = 2 ÷ 8 bar
Flow rate = 60 NI/min.

Mod.

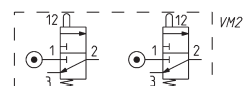
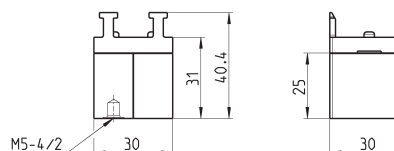
234-000

235-000

Minivalves

Operating pressure = 2 ÷ 8 bar
Flow rate = 60 NI/min.

The codes shown in the table are composed by two 3/2-way valves NC which can be operated with the control device Mod. 200-870 only.

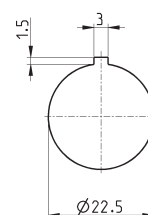


Mod.

284-000

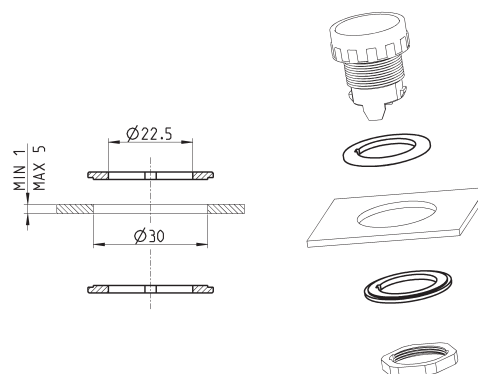
285-000

Drilling for mounting



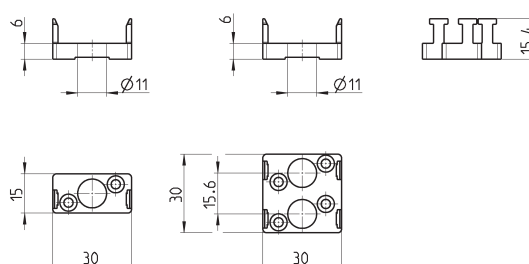
Adaptor

Panel hole adaptor Ø30
Supplied with:
2x reduction rings



Mod.
200-2230

End cover



Mod.
210-000
220-000

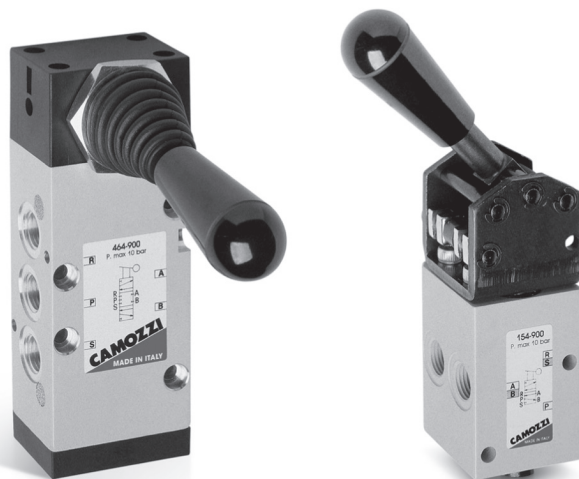
Series 1, 3, 4 and VMS manually operated valves

Series 1, 3 and 4: 3/2, 5/2 and 5/3-way CC CO CP

Ports G1/8 - G1/4

Series VMS: 3/2-way

Ports G1/8 - G1/4 - G3/8 - G1/2



Series 3 manual valves (G1/8) and Series 4 (G1/4), 3/2 - 5/2-way and 5/3-way, are available with several devices designed to satisfy different needs. The 3/2-way valves Series 3 and 4 are normally closed when 1 is the inlet; they can also be normally open when 3 is the inlet.

Series 3 and 4 5/2-way valves can be supplied via the ports 3 and 5 with two different pressures, if a cylinder has to be operated using a delivery pressure which is different from the return pressure. Series 1 is provided with two devices : pushbutton (3/2-way) and lever (3/2 and 5/2-way).

GENERAL DATA

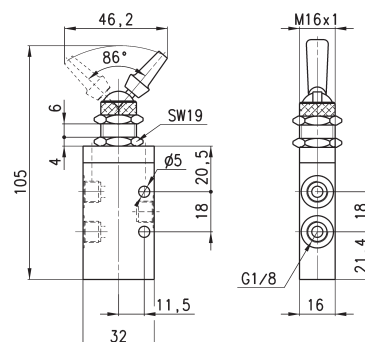
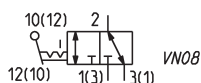
Construction	spool-type (Series 3 and 4) - poppet-type (Series 1) - slide (Series VMS)
Valve group	3/2 - 5/2 - 5/3 way/pos.
Materials	aluminium body, stainless steel spool, NBR seals
Ports	G1/8 - G1/4
Ambient temperature	0°C ÷ 60°C
Medium temperature	0°C ÷ 50°C
Operating pressure	see models
Fluid	Filtered air, without lubrication. If lubricated air is used, it is recommended to use ISO VG32 oil. Once applied the lubrication should never be interrupted.

CODING EXAMPLE

3	3	8	-	900
---	---	---	---	-----

3	SERIES: 1 3 4
5	FUNCTION: 3 = 3/2-way NC 5 = 5/2-way 6 = 5/3-way CC 7 = 5/3-way CO
8	PORTS: 8 = G1/8 4 = G1/4
900	RESETTING: 895 = pushbutton, monostable, black 896 = pushbutton, monostable, green 897 = pushbutton, monostable, red 900 = lever, bistable 905 = lever, monostable 910 = knob, bistable 915 = knob, monostable 935 = digital monostable 975 = palm-switch, monostable, black 976 = palm-switch, monostable, green 977 = palm-switch, monostable, red 990 = switch, bistable

Valve

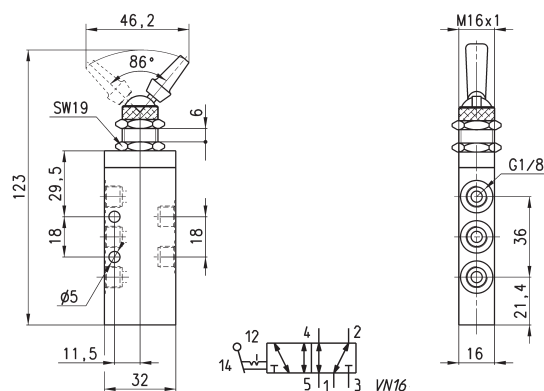


Mod.	Operating pressure (bar)	Flow rate (Nl/min)	Actuating force (N)
338-990	0.9 ÷ 10	700	18

Valve



Actuating force = 18N
Operating pressure = -0,9 ÷ 10 bar
Flow rate = 700 NI/min.



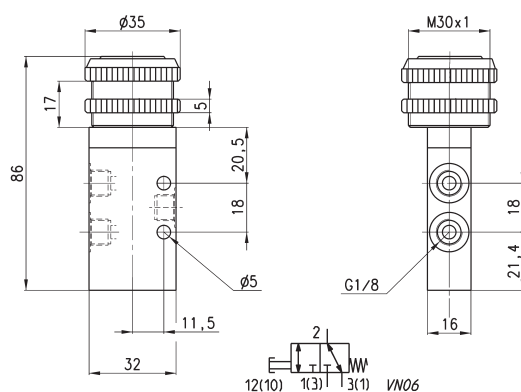
Mod.

358-990

Valves



Actuating force = 35N
Operating pressure = -0,9 ÷ 10 bar
Flow rate = 700 NI/min.



Mod.

338-895

Colors

Black

338-896

Green

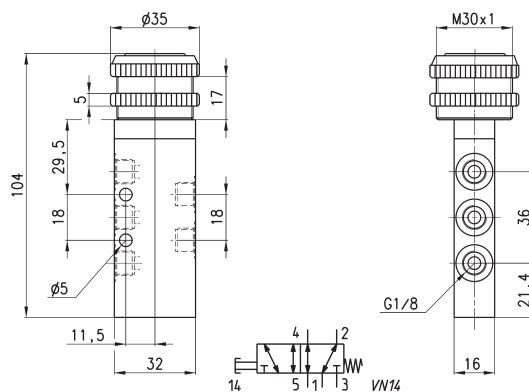
338-897

Red

Valves



Actuating force = 35N
Operating pressure = -0,9 ÷ 10 bar
Flow rate = 700 NI/min.



Mod.

358-895

Colors

Black

358-896

Green

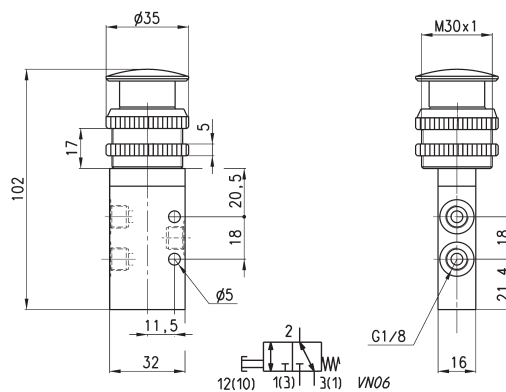
358-897

Red

Valves



Actuating force = 35N
Operating pressure = -0,9 ÷ 10 bar
Flow rate = 700 NI/min.



Mod.

338-975

Colors

Black

338-976

Green

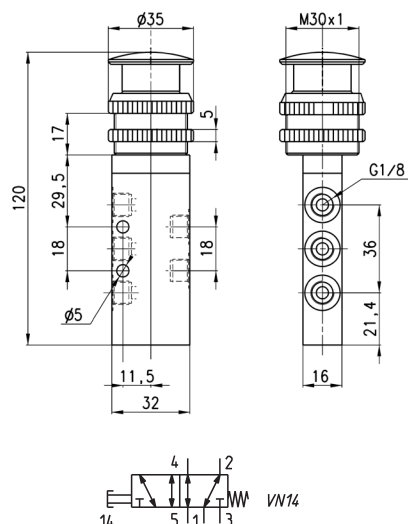
338-977

Red



Valves

Actuating force = 35N
Operating pressure = -0,9 ÷ 10 bar
Flow rate = 700 NI/min.

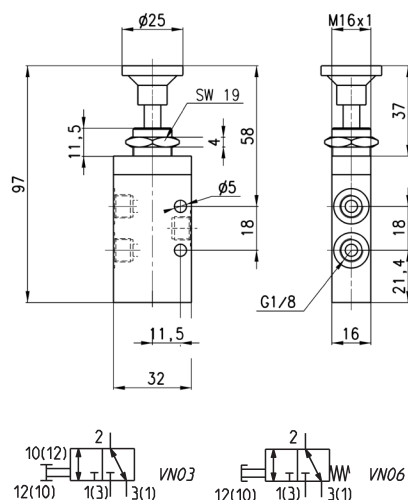


Mod.	Colors
358-975	Black
358-976	Green
358-977	Red



Valves

338-910 Actuating force = 6N
338-915 Actuating force = 35N
Operating pressure = -0,9 ÷ 10 bar
Flow rate = 700 NI/min.

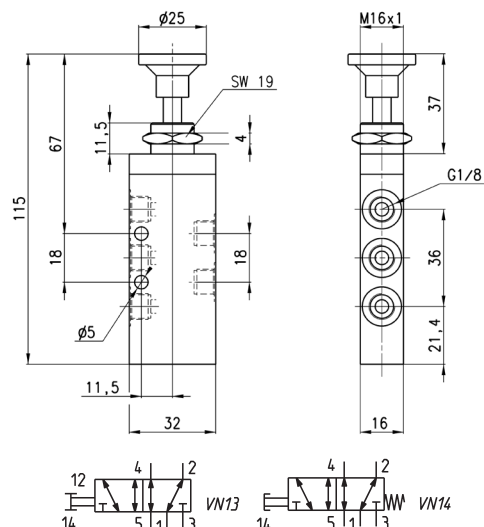


Mod.	Symbol
338-910	VN03
338-915	VN06



Valves

358-910 Actuating force = 6N
358-915 Actuating force = 35N
Operating pressure = -0,9 ÷ 10 bar
Flow rate = 700 NI/min.

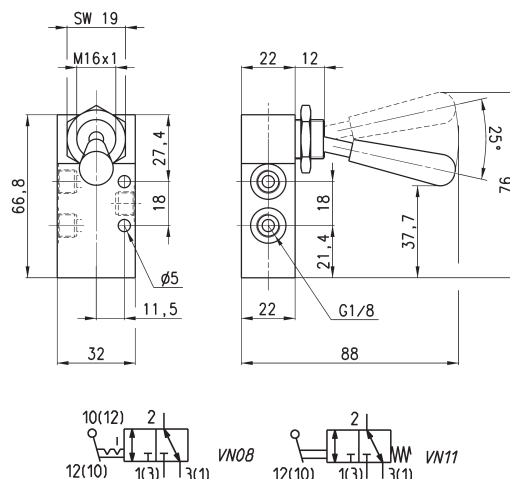


Mod.	Symbol
358-910	VN13
358-915	VN14

Valves



338-910 Actuating force = 6N
 338-915 Actuating force = 35N
 Operating pressure = $-0,9 \div 10$ bar
 Flow rate = 700 NI/min.

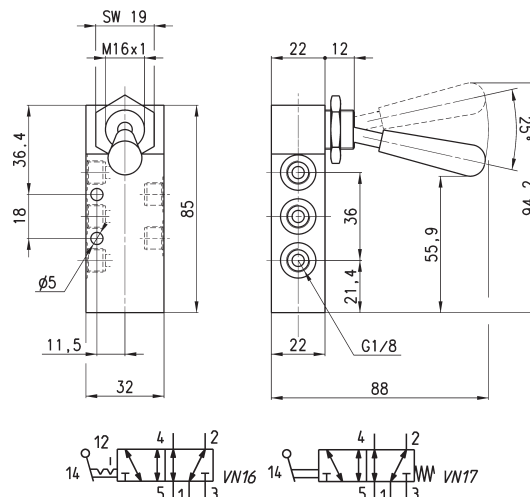


Mod.	Symbol
338-900	VN08
338-905	VN11

Valves



358-900 Actuating force = 5N
 358-905 Actuating force = 22N
 Operating pressure = $-0,9 \div 10$ bar
 Flow rate = 700 NI/min.

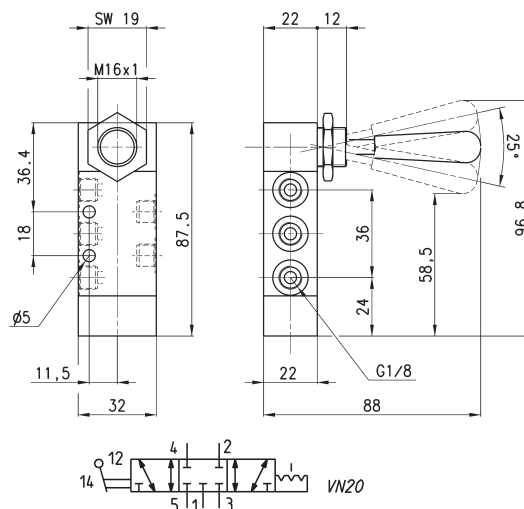


Mod.	Symbol
358-900	VN16
358-905	VN17

Valve



Actuating force = 5N
 Operating pressure = $-0,9 \div 10$ bar
 Flow rate = 500 NI/min.

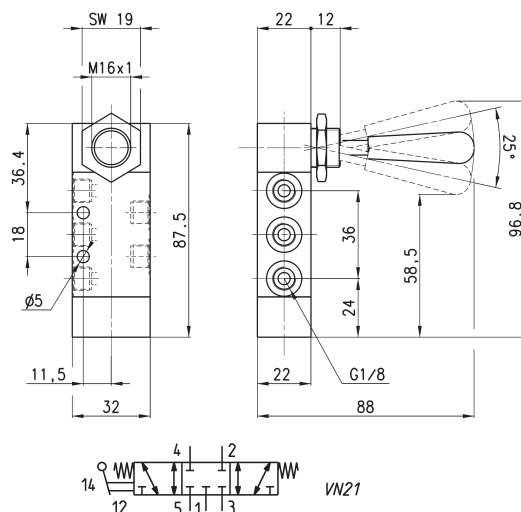


Mod.
368-900



Valve

Actuating force = 20N
Operating pressure = $-0,9 \div 10$ bar
Flow rate = 500 NI/min.

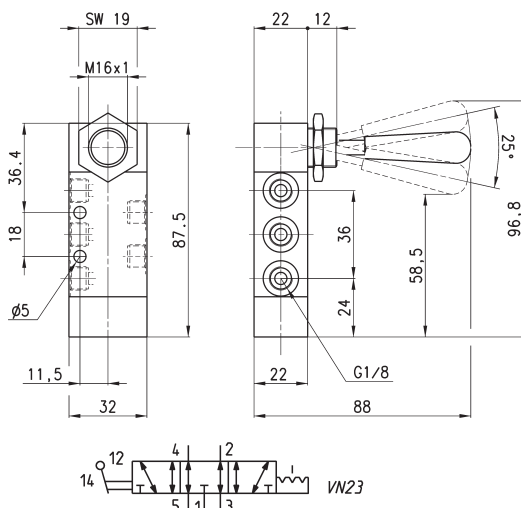


Mod.
368-905



Valve

Actuating force = 5N
Operating pressure = $-0,9 \div 10$ bar
Flow rate = 500 NI/min.

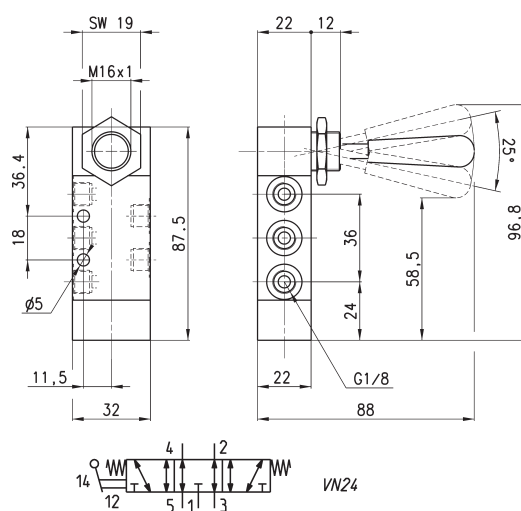


Mod.
378-900



Valve

Actuating force = 20N
Operating pressure = $-0,9 \div 10$ bar
Flow rate = 500 NI/min.

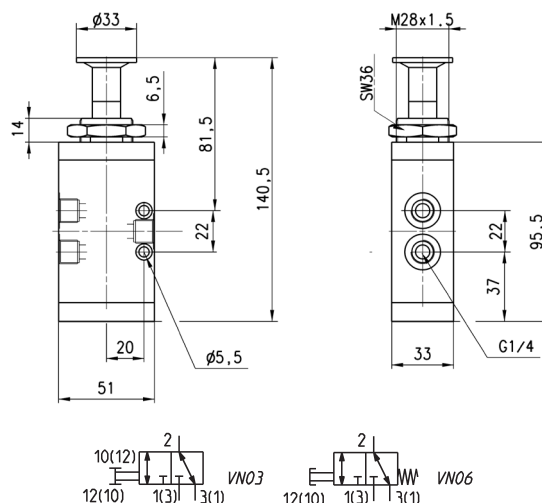


Mod.
378-905



Valves

434-910 actuating force = 10N
434-915 actuating force = 37N
Operating pressure = -0,9 ÷ 10 bar
Flow rate = 1250 NI/min.

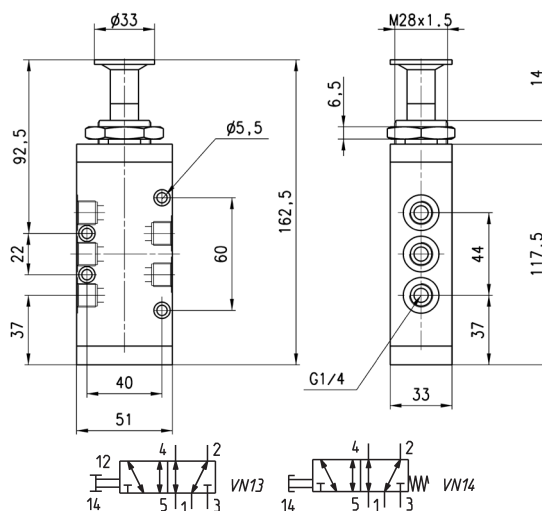


Mod.	Symbol
434-910	VN03
434-915	VN06



Valves

454-910 actuating force = 10N
454-915 actuating force = 37N
Operating pressure = -0,9 ÷ 10 bar
Flow rate = 1250 NI/min.

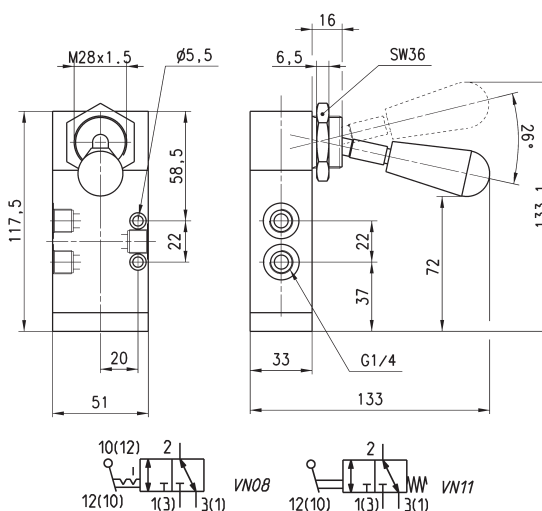


DIMENSIONS	
Mod.	Symbol
454-910	VN13
454-915	VN14



Valves

434-900 actuating force = 5N
434-905 actuating force = 37N
Operating pressure = -0,9 ÷ 10 bar
Flow rate = 1250 Nl/min.

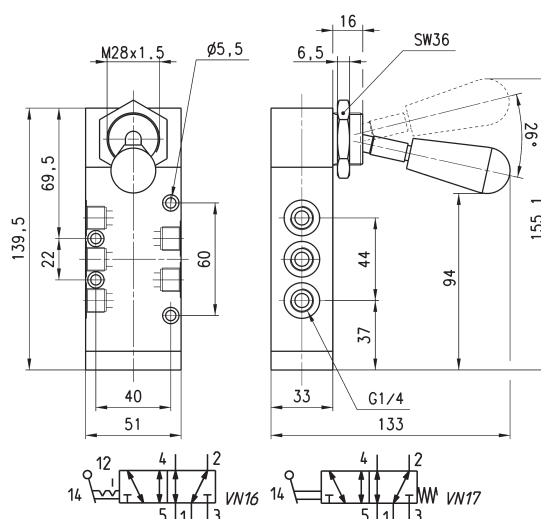


Mod.	Symbol
434-900	VN08
434-905	VN11



Valves

454-900 actuating force = 5N
454-905 actuating force = 37N
Operating pressure = $-0,9 \div 10$ bar
Flow rate = 1250 NI/min.

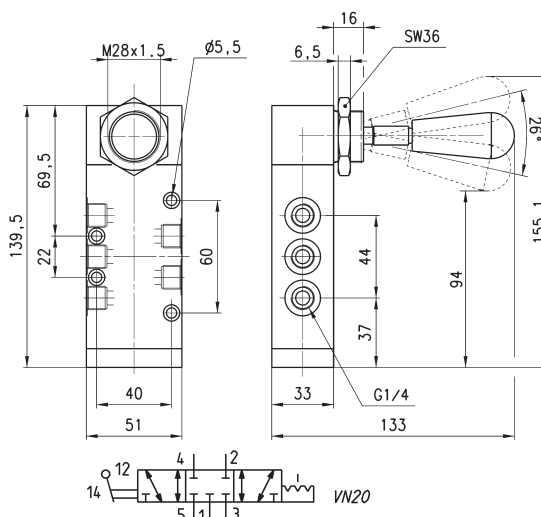


Mod.	Symbol
454-900	VN16
454-905	VN17



Valve

Actuating force = 5N
Operating pressure = $-0,9 \div 10$ bar
Flow rate = 1250 NI/min.

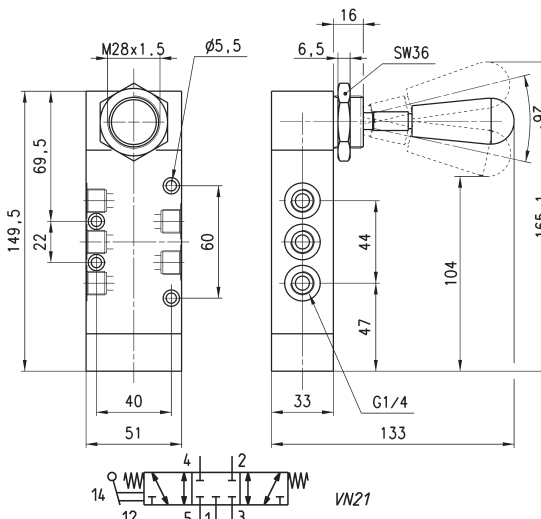


Mod.
464-900



Valve

Actuating force = 10N
Operating pressure = $-0,9 \div 10$ bar
Flow rate = 1250 NI/min.

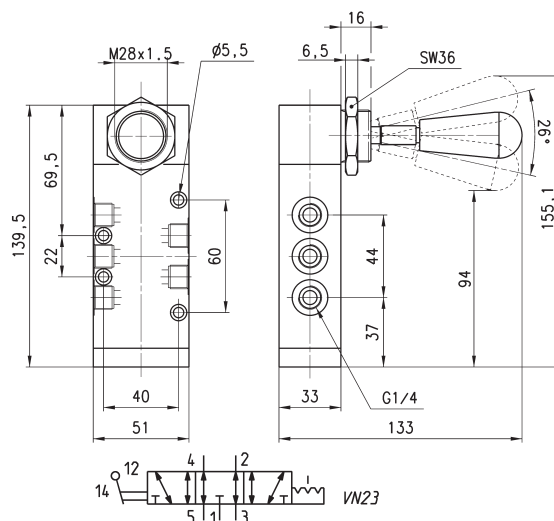


Mod.
464-905

Valve



Actuating force = 5N
Operating pressure = $-0,9 \div 10$ bar
Flow rate = 1250 NI/min.



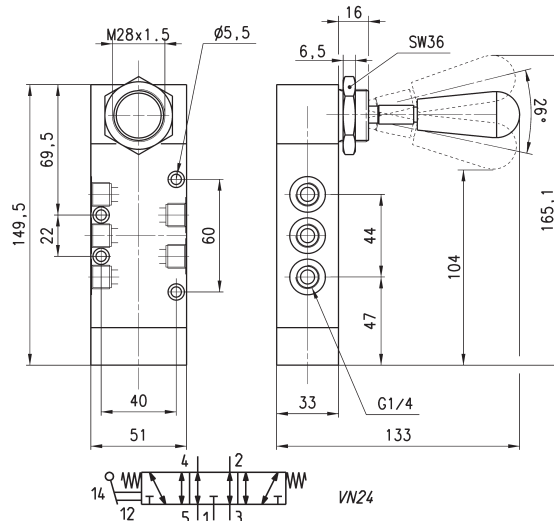
Mod.

474-900

Valve



Actuating force = 10N
Operating pressure = $-0,9 \div 10$ bar
Flow rate = 1250 NI/min.

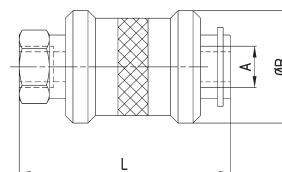


Mod.

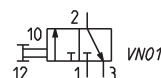
474-905

Valves Series VMS

Operating pressure: $0 \div 15$ bar
Operating temperature: $-10 \div 80^{\circ}\text{C}$



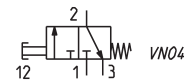
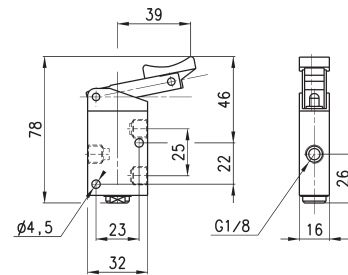
Mod.	A	ϕB	L	Q* (NI/min) 1-2	Q* (NI/min) 2-3
VMS-105-M5	M5	15	33,5	140	145
VMS-118-1/8	G1/8	25	48	600	740
VMS-114-1/4	G1/4	30	58	1200	1780
VMS-138-3/8	G3/8	35	70	2100	1830
VMS-112-1/2	G1/2	40	80	3350	4030
VMS-134-3/4	G3/4	49,5	83	5350	5000





Valve

Actuating force at 6 bar = 38N
Operating pressure = 0 ÷ 10 bar
Flow rate = 500 NI/min.

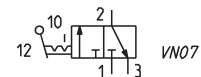
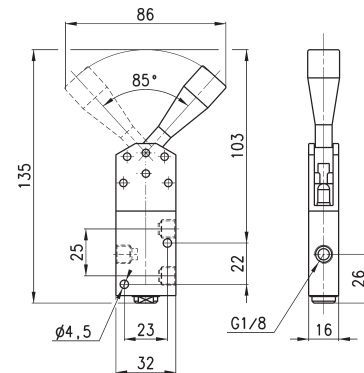


Mod.
138-935



Valve

Actuating force at 6 bar = 25N
Operating pressure = 0 ÷ 10 bar
Flow rate = 500 NI/min.

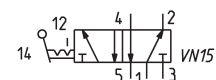
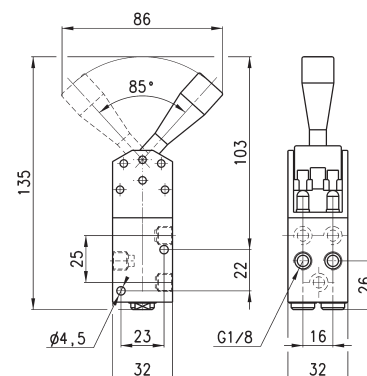


Mod.
138-900



Valve

Actuating force at 6 bar = 45N
Operating pressure = 0 ÷ 10 bar
Flow rate = 500 NI/min.

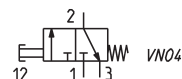
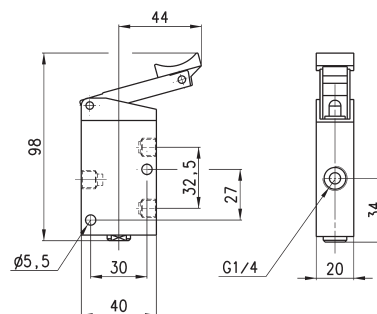


Mod.
158-900



Valve

Actuating force at 6 bar = 40N
Operating pressure = 0 ÷ 10 bar
Flow rate = 1250 NI/min.



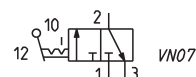
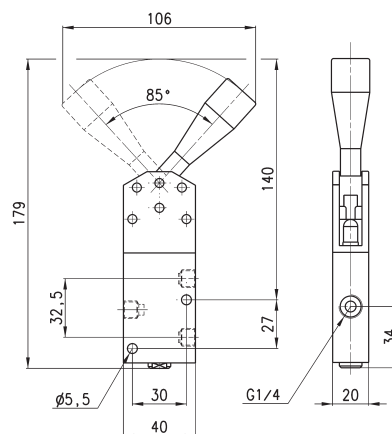
Mod.

134-935



Valve

Actuating force at 6 bar = 30N
Operating pressure = 0 ÷ 10 bar
Flow rate = 1250 NI/min.



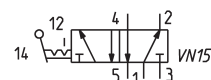
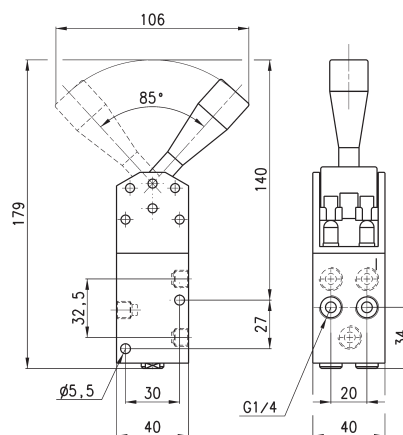
Mod.

134-900



Valve

Actuating force at 6 bar = 55N
Operating pressure = 0 ÷ 10 bar
Flow rate = 1250 NI/min.



Mod.

154-900

Series 2 mini-handle valves

Handle with incorporated micro valve 3/2 NC and NO
Handle with incorporated micro switch

2

CONTROL

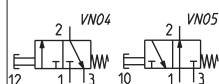
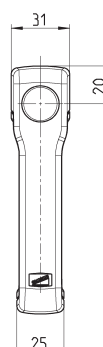
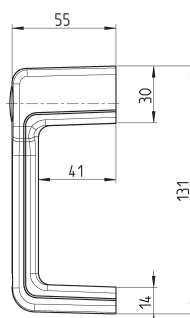
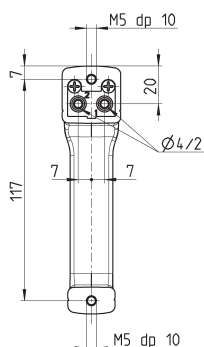


Manual handle with integrated pneumatic micro valve 3/2 or with an electrical micro switch with single pole changeover contacts. Rugged construction particularly suited to be incorporated in to other equipment.

GENERAL DATA

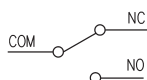
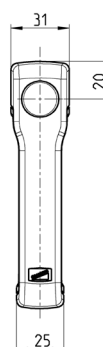
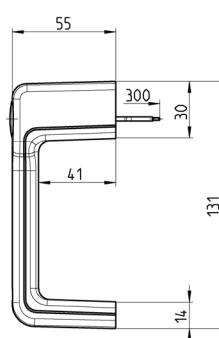
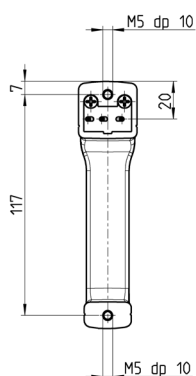
Construction	poppet-type (closed centres)
Valve group	way/pos. 3/2 way NC and NO
Nominal diameter	2,5 mm
Fixing	N°2 holes M5
Ports	push in cartridge Ø4
Installation	in any position
Operating temperature	0 ÷ +70°C (-20°C with dry air)
Operating pressure	2 ÷ 8 bar
Nominal flow rate	Qn 60 NI/min. (6 bar Δ p1)
Fluid	Filtered air, without lubrication. If lubricated air is used, it is recommended to use ISO VG32 oil. Once applied the lubrication should never be interrupted.
Actuating force	at 6 bar 13N
Construction	switch device
Electrical connections	3 wires Ø external 2,2 mm internal section 0,5 length 30 cm NC = black wire NO = blue wire
Fixing	N° 2 holes M5
Mounting	in any position
Operating temperature	0 ÷ +70°C
Protection class	IP40
Activation stroke	2 mm
Actuating force	5 N

Handle 3/2 NC and NO



Mod.	Symbol
234-885	VN04
244-885	VN05

Handle



Electrical characteristics						
Mod.	Voltage	Non-inductive load Resist. NC / NO	Non-inductive load Lamp NC / NO	Inductive load NC / NO	Inductive load Motor NC/NO	
234-88E	125VAC	5A	1,5 A / 0,7 A	3 A	2,5 A / 1,3 A	
	250 VAC	3A	1 A / 0,5 A	2 A	1,5 A / 0,8 A	
	8 VDC	5A	2 A	5 A / 4 A	3 A	
	14 VDC	5A	2 A	4 A	3 A	
	30 VDC	4A	2 A	3 A	3 A	
	125 VDC	0,4A	0,05 A	0,4 A	0,05 A	
	250 VDC	0,2A	0,03 A	0,2 A	0,03 A	
234-88E	The above-mentioned values refer to steady-state-current	The inductive load refers to power factor = 0,4 in AC. and a time constant of 7 msec max. in DC.	Lamp load has an inrush current of 10 times the steady-state current.	Motor load has an inrush current of 6 times the steady-state current.	If the switch is used in a DC circuit and is subjected to a surge connect a surge suppressor across the switch.	