

# Manually operated valves Series 1, 3, 4 and VMS

2

Series 1, 3 and 4: 3/2, 5/2 and 5/3-way C.C. C.O. C.P.

Ports G1/8 - G1/4

Series VMS: 3/2 - way

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



The manual valves Series 3 (G1/8) and Series 4 (G1/4), 3/2 - 5/2-way and 5/3-way, are available with 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.

The 5/2 way valves for Series 3 and 4 maybe 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.

The Series 1 is provided with two devices : pushbutton (3/2-way) and lever (3/2 and 5/2-way).

## GENERAL DATA

<b>Construction</b>	spool-type (Series 3 and 4) - poppet-type (Series 1) - slide (Series VMS)
<b>Valve group</b>	3/2 - 5/2 - 5/3 way/pos.
<b>Materials</b>	aluminium body, stainless steel spool, NBR seals
<b>Ports</b>	G1/8 - G1/4
<b>Ambient temperature</b>	0°C + 60°C
<b>Medium temperature</b>	0°C + 50°C
<b>Operating pressure</b>	see models
<b>Fluid</b>	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**

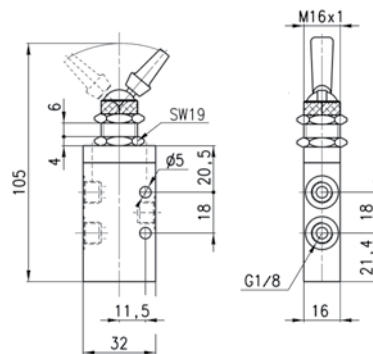
<b>3</b>	<b>3</b>	<b>8</b>	<b>-</b>	<b>900</b>
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<b>3</b>	<p>SERIES:</p> <p>1</p> <p>3</p> <p>4</p>
<b>5</b>	<p>FUNCTION:</p> <p>3 = 3/2 way N.C.</p> <p>5 = 5/2 way</p> <p>6 = 5/3 way C.O.</p> <p>7 = 5/3 way C.O.</p>
<b>8</b>	<p>PORTS:</p> <p>8 = G1/8</p> <p>4 = G1/4</p>
<b>900</b>	<p>RESETTING:</p> <p>895 = pushbutton, monostable, black</p> <p>896 = pushbutton, monostable, green</p> <p>897 = pushbutton, monostable, red</p> <p>900 = lever, bistable</p> <p>905 = lever, monostable</p> <p>910 = knob, bistable</p> <p>915 = knob, monostable</p> <p>935 = digital monostable</p> <p>975 = palm-switch, monostable, black</p> <p>976 = palm-switch, monostable, green</p> <p>977 = palm-switch, monostable, red</p> <p>990 = switch, bistable</p>

**Valve**



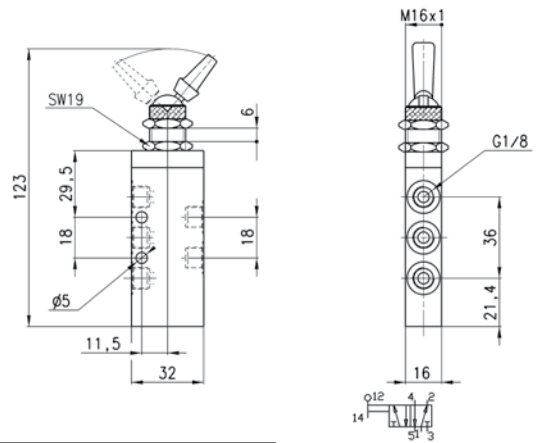
Actuating force = 18N  
 Operating pressure = -0,9 ÷ 10 bar  
 Flow rate = 700 NI/min.



Mod.  
 338-990

Valve

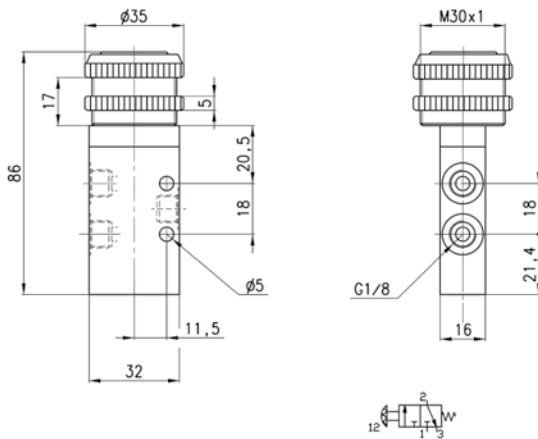
Actuating force = 18N  
 Operating pressure = -0,9 ÷ 10 bar  
 Flow rate = 700 NI/min.



Mod.	
358-990	

Valves

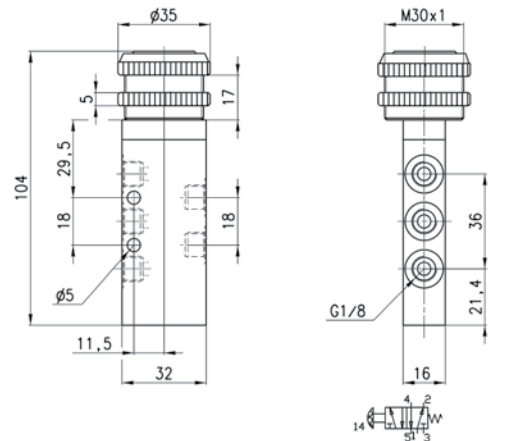
Actuating force = 35N  
 Operating pressure = -0,9 ÷ 10 bar  
 Flow rate = 700 NI/min.



Mod.	Colors
338-895	Black
338-896	Green
338-897	Red

Valves

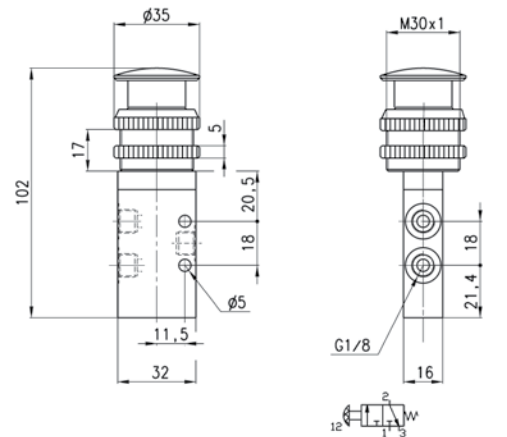
Actuating force = 35N  
 Operating pressure = -0,9 ÷ 10 bar  
 Flow rate = 700 NI/min.



Mod.	Colors
358-895	Black
358-896	Green
358-897	Red

Valves

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

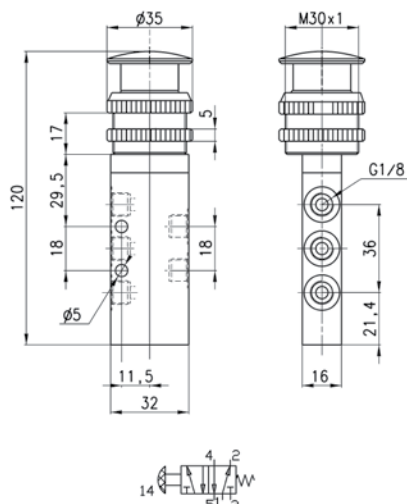


Mod.	Colors
338-975	Black
338-976	Green
338-977	Red

Valves



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

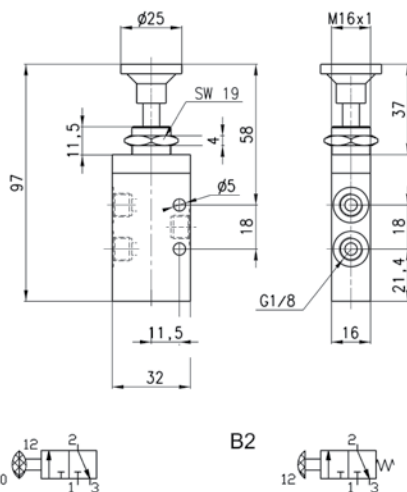


Mod.	Colors
358-975	Black
358-976	Green
358-977	Red

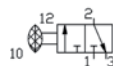
Valves



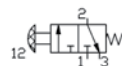
338-910 Actuating force = 6N  
 338-915 Actuating force = 35N  
 Operating pressure = -0,9 ÷ 10 bar  
 Flow rate = 700 NI/min.



A2



B2

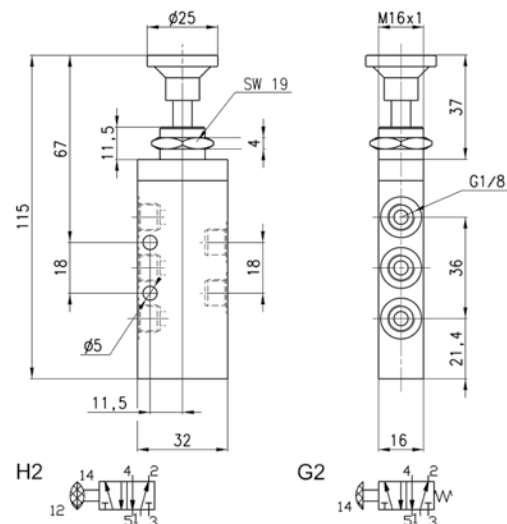


Mod.	Symbol
338-910	A2
338-915	B2

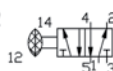
Valves



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



H2



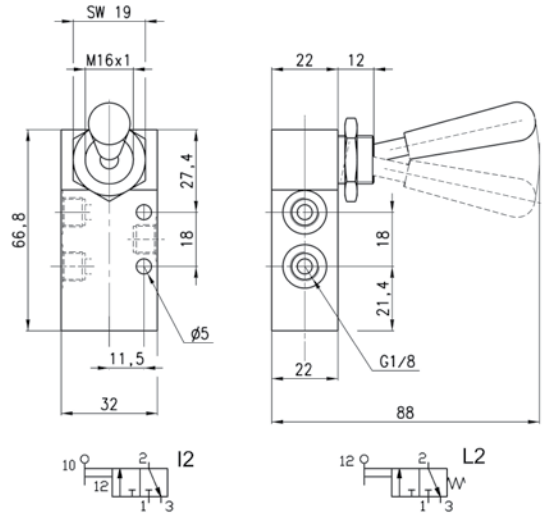
G2



Mod.	Symbol
358-910	H2
358-915	G2

Valves

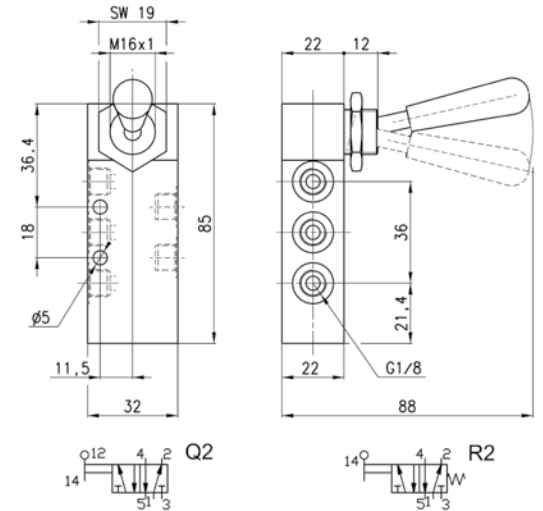
338-910 Actuating force = 6N  
 338-915 Actuating force = 35N  
 Operating pressure = -0,9 ÷ 10 bar  
 Flow rate = 700 NI/min.



Mod.	Symbol
338-900	I2
338-905	L2

Valves

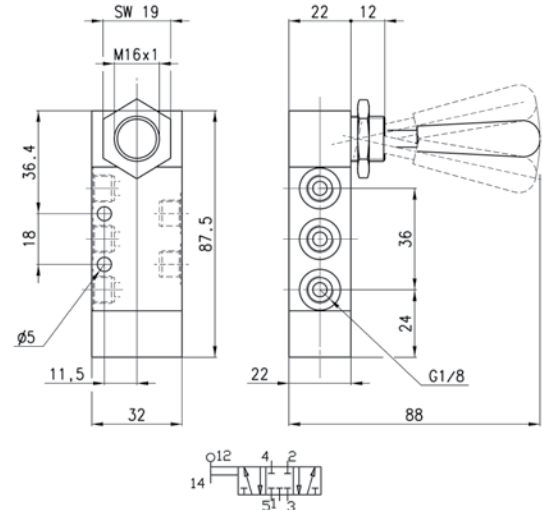
358-900 Actuating force = 5N  
 358-905 Actuating force = 22N  
 Operating pressure = -0,9 ÷ 10 bar  
 Flow rate = 700 NI/min.



Mod.	Symbol
358-900	Q2
358-905	R2

Valve

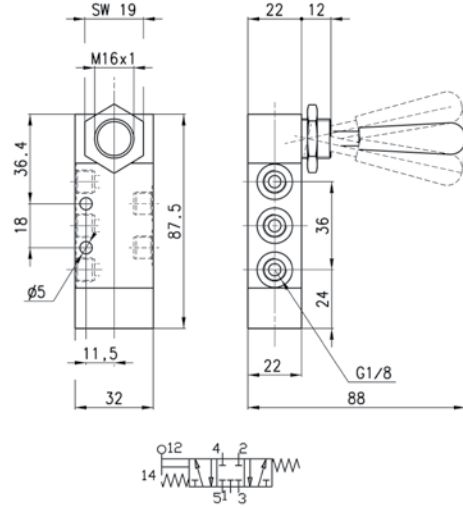
Actuating force = 5N  
 Operating pressure = -0,9 ÷ 10 bar  
 Flow rate = 500 NI/min.



Mod.
368-900

Valve

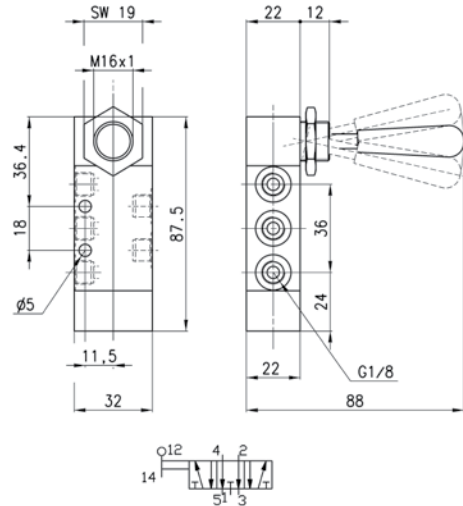
Actuating force = 20N  
 Operating pressure = -0,9 ÷ 10 bar  
 Flow rate = 500 NI/min.



Mod.  
**368-905**

Valve

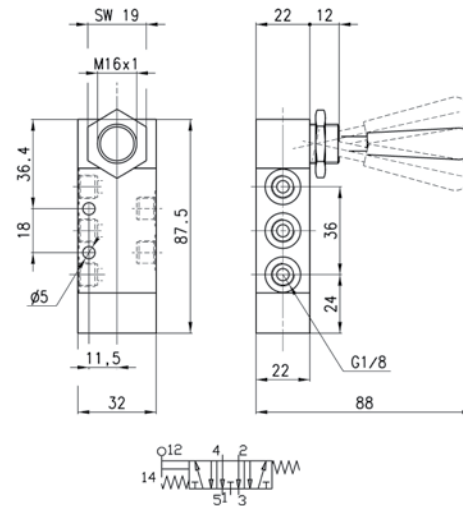
Actuating force = 5N  
 Operating pressure = -0,9 ÷ 10 bar  
 Flow rate = 500 NI/min.



Mod.  
**378-900**

Valve

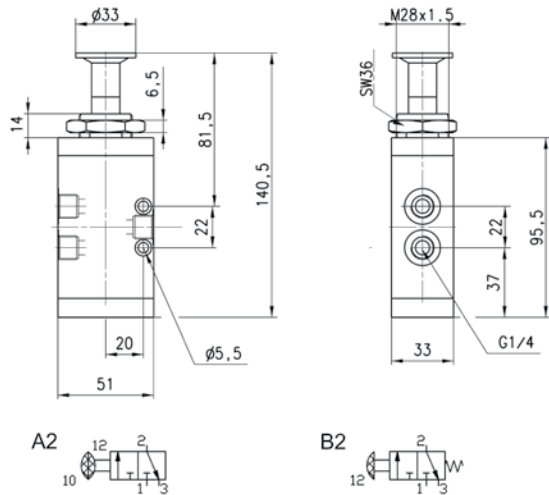
Actuating force = 20N  
 Operating pressure = -0,9 ÷ 10 bar  
 Flow rate = 500 NI/min.



Mod.  
**378-905**

Valves

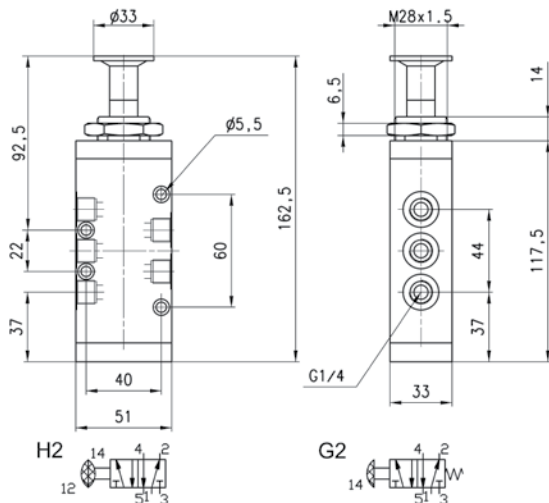
434-910 actuating force = 10N  
 434-915 actuating force = 37N  
 Operating pressure = -0,9 ÷ 10 bar  
 Flow rate = 1250 NI/min.



Mod.	Symbol
434-910	A2
434-915	B2

Valves

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

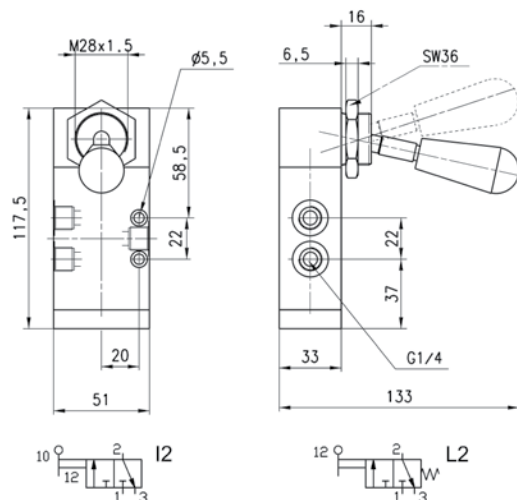


DIMENSIONS

Mod.	Symbol
454-910	H2
454-915	G2

Valves

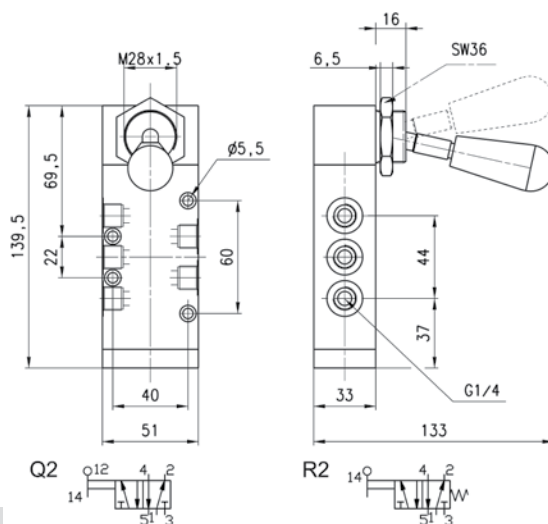
434-900 actuating force = 5N  
 434-905 actuating force = 37N  
 Operating pressure = -0,9 ÷ 10 bar  
 Flow rate = 1250 NI/min.



Mod.	Symbol
434-900	I2
434-905	L2

Valves

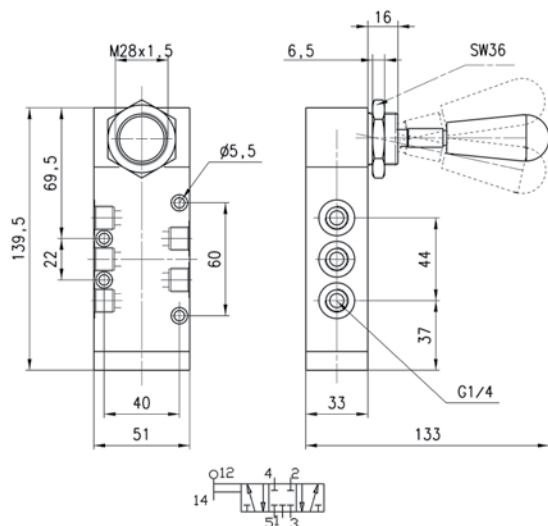
454-900 actuating force = 5N  
 454-905 actuating force = 37N  
 Operating pressure = -0,9 ÷ 10 bar  
 Flow rate = 1250 NI/min.



Mod.	Symbol
454-900	Q2
454-905	R2

Valve

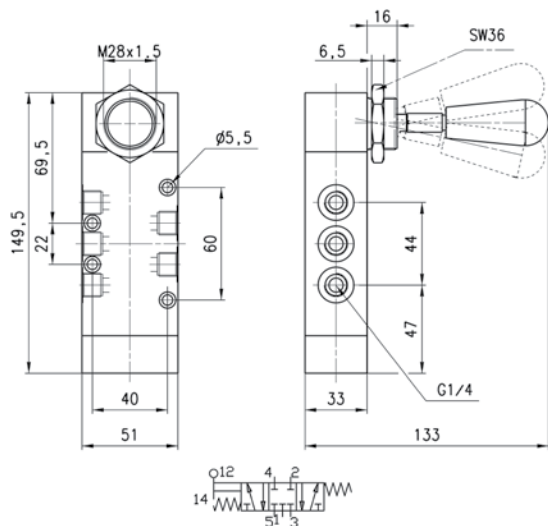
Actuating force = 5N  
 Operating pressure = -0,9 ÷ 10 bar  
 Flow rate = 1250 NI/min.



Mod.
464-900

Valve

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

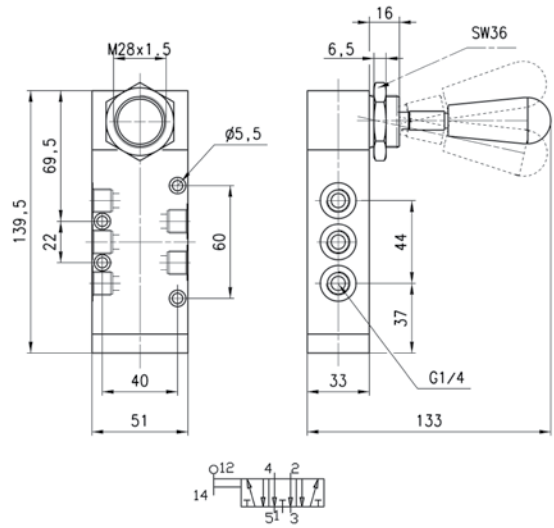


Mod.
464-905



Valve

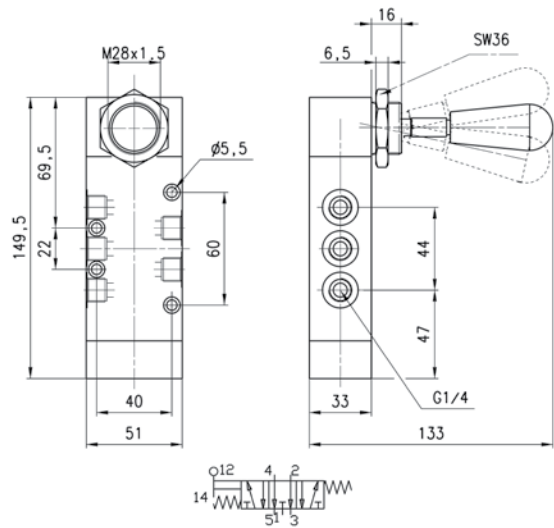
Actuating force = 5N  
 Operating pressure = -0,9 ÷ 10 bar  
 Flow rate = 1250 NI/min.



Mod.  
**474-900**

Valve

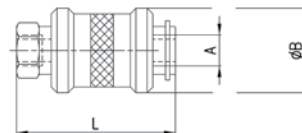
Actuating force = 10N  
 Operating pressure = -0,9 ÷ 10 bar  
 Flow rate = 1250 NI/min.



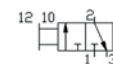
Mod.  
**474-905**

Valves

Operating pressure: 0 ÷ 8 bar  
 Operating temperature: - 10 ÷ 80°C.



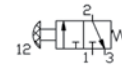
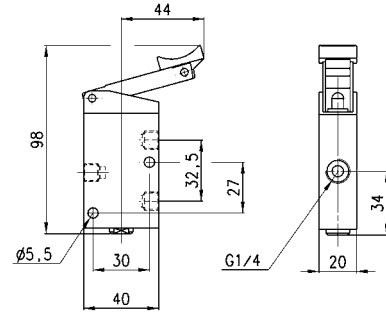
Mod.	A	ØB	L	Flow rate NI/min 1-2	Flow rate NI/min 2-3
<b>VMS-105-M5</b>	M5	15	33,5	140	145
<b>VMS-118-1/8</b>	G1/8	25	48	600	740
<b>VMS-114-1/4</b>	G1/4	30	58	1200	1780
<b>VMS-138-3/8</b>	G3/8	35	70	2100	1830
<b>VMS-112-1/2</b>	G1/2	40	80	3350	4030
<b>VMS-134-3/4</b>	G3/4	49,5	83	5350	5000





Valve

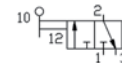
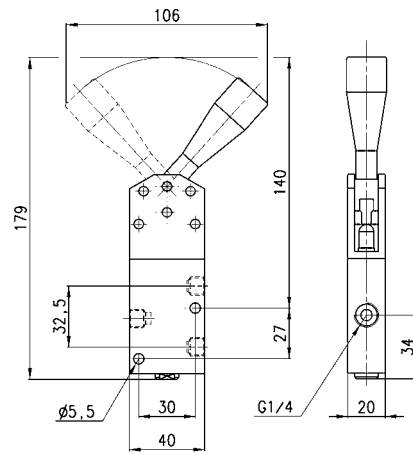
Actuating force at 6 bar = 40N  
 Operating pressure = 0 ÷ 10 bar  
 Flow rate = 1250 NI/min.



Mod.  
 134-935

Valve

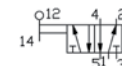
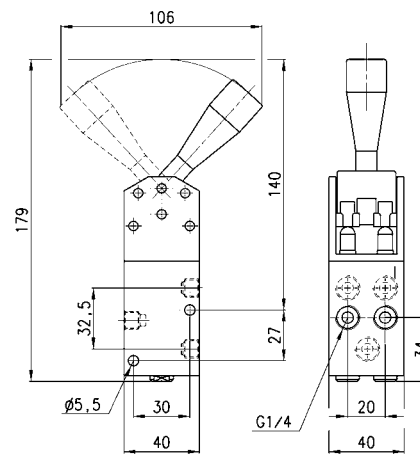
Actuating force at 6 bar = 30N  
 Operating pressure = 0 ÷ 10 bar  
 Flow rate = 1250 NI/min.



Mod.  
 134-900

Valve

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



Mod.  
 154-900