MANUALLY OPERATED VALVES
SERIES 1, 3, 4 AND VMS

Series 1, 3 and 4: 3/2-, 5/2- and 5/3-way CC, CO; ports G1/8, G1/4
Series VMS: 3/2-way; ports M5, G1/8, G1/4, G3/8, G1/2 and G3/4



Series 3 manual valves (G1/8) and Series 4 (G1/4), 3/2-, 5/2- and 5/3-way, are available with several devices designed to satisfy different needs.
Series 1 is provided with two devices: pushbutton (3/2-way) and lever (3/2 and 5/2-way).
Series VMS valves are 3/2-way slide valves which are available with ports M5, G1/8, G1/4, G3/8, G1/2 and G3/4.

The 3/2-way valves Series 3 and 4 are normally closed when 1 is the inlet and they can also be normally open when 3 is the inlet.
Series 3 and 4 5/2-way valves can be supplied via 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	Series 3 and 4: spool-type Series 1: poppet-type Series VMS: slide
Function	Series 1, 3 and 4: 3/2 - 5/2 - 5/3 ways CC CO Series VMS: 3/2-way
Materials	Aluminium body, stainless steel spool, brass poppet, NBR seals
Ports	Series 1, 3 and 4: G1/8, G1/4 Series VMS: M5, G1/8, G1/4, G3/8, G1/2, G3/4
Environmental temperature	0°C ÷ 60°C
Medium temperature	0°C ÷ 50°C
Operating pressure	See the single 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.

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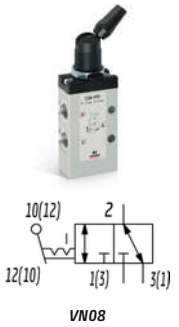
MANUALLY OPERATED VALVES
SERIES 1, 3, 4 AND VMS - CODING EXAMPLES

Coding Example

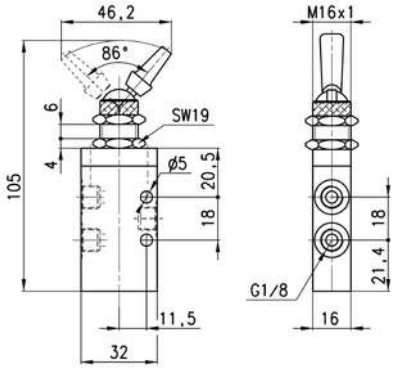
3	5	8	-	900

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 = 5/3-way CP
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. 338-990



VN08

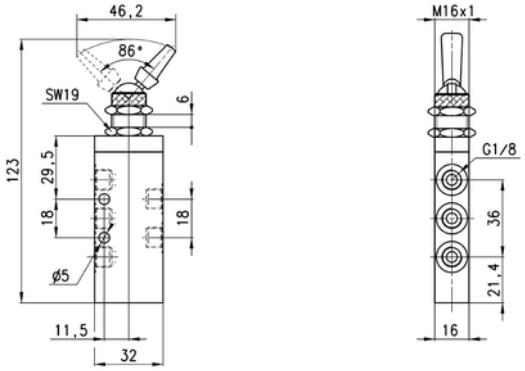


Mod.	Operating pressure [bar]	Flow [Nl/min]	Actuating force [N]
338-990	-0,9 ÷ 10	700	18

Valve Mod. 358-990



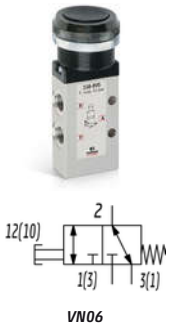
VN16



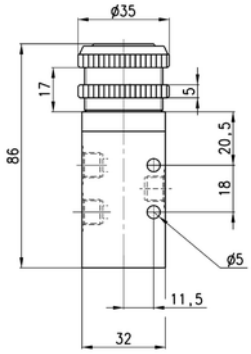
Mod.	Operating pressure [bar]	Flow [Nl/min]	Actuating force [N]
358-990	-0,9 ÷ 10	700	18

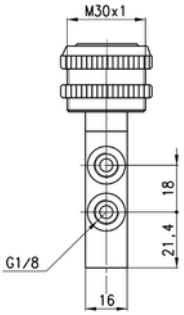
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Valves Mod. 338-89



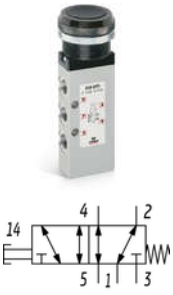
VN06



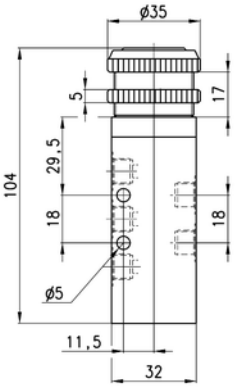


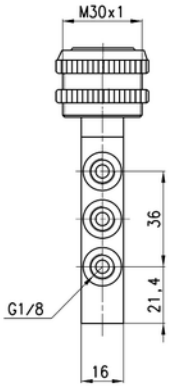
Mod.	Operating pressure [bar]	Flow [Nl/min]	Actuating force [N]	Colors
338-895	-0,9 ÷ 10	700	35	Black
338-896	-0,9 ÷ 10	700	35	Green
338-897	-0,9 ÷ 10	700	35	Red

Valves Mod. 358-89



VN14



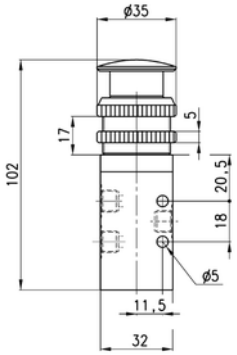


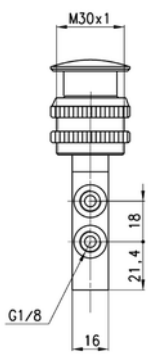
Mod.	Operating pressure [bar]	Flow [Nl/min]	Actuating force [N]	Colors
358-895	-0,9 ÷ 10	700	35	Black
358-896	-0,9 ÷ 10	700	35	Green
358-897	-0,9 ÷ 10	700	35	Red

Valves Mod. 338-97



VN06





Mod.	Operating pressure [bar]	Flow [Nl/min]	Actuating force [N]	Colors
338-975	-0,9 ÷ 10	700	35	Black
338-976	-0,9 ÷ 10	700	35	Green
338-977	-0,9 ÷ 10	700	35	Red

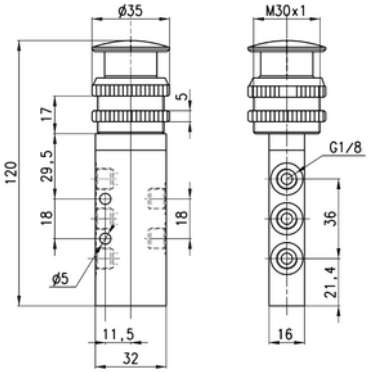
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MANUALLY OPERATED VALVES
SERIES 1, 3, 4 AND VMS - DIMENSIONS

Valves Mod. 358-97



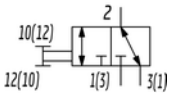
VN14



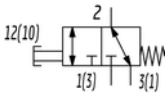
Mod.	Operating pressure [bar]	Flow [Nl/min]	Actuating force [N]	Colors
358-975	-0,9 ÷ 10	700	35	Black
358-976	-0,9 ÷ 10	700	35	Green
358-977	-0,9 ÷ 10	700	35	Red

Valves Mod. 338-91

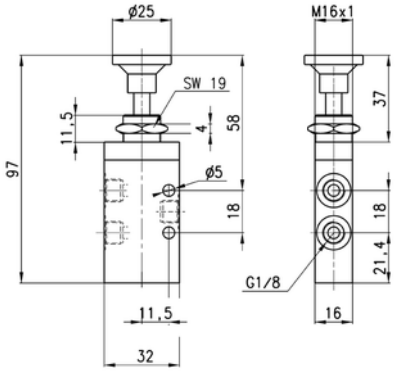




VN03



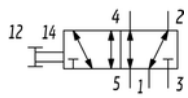
VN06



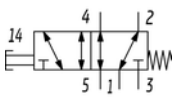
Mod.	Operating pressure [bar]	Flow [Nl/min]	Actuating force [N]	Symbol
338-910	-0,9 ÷ 10	700	6	VN03
338-915	-0,9 ÷ 10	700	35	VN06

Valves Mod. 358-91

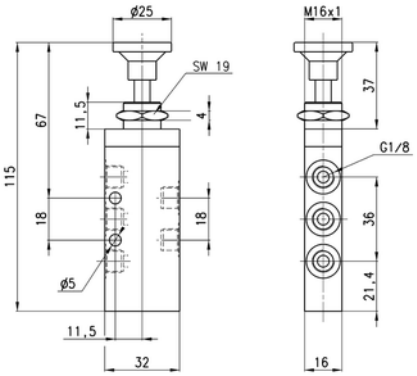




VN13



VN14

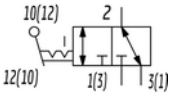


Mod.	Operating pressure [bar]	Flow [Nl/min]	Actuating force [N]	Symbol
358-910	-0,9 ÷ 10	700	6	VN13
358-915	-0,9 ÷ 10	700	35	VN14

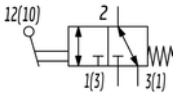
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Valves Mod. 338-90

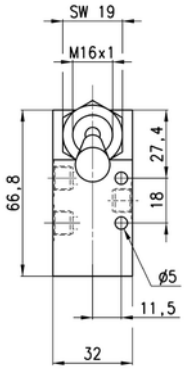


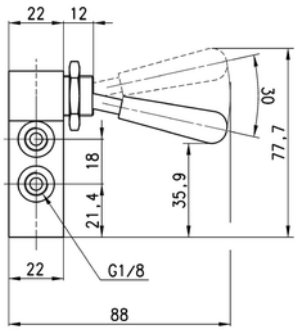


VN08



VN11

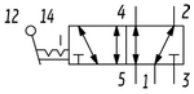




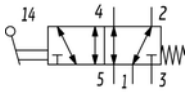
Mod.	Operating pressure [bar]	Flow [Nl/min]	Actuating force [N]	Symbol
338-900	-0,9 ÷ 10	700	5	VN08
338-905	-0,9 ÷ 10	700	22	VN11

Valves Mod. 358-90

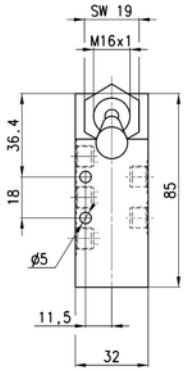


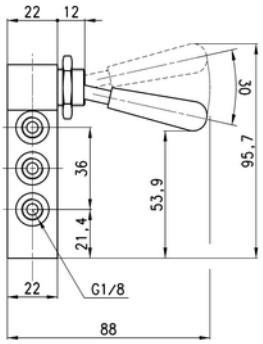


VN16



VN17





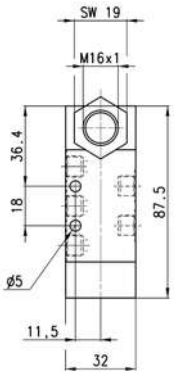
Mod.	Operating pressure [bar]	Flow [Nl/min]	Actuating force [N]	Symbol
358-900	-0,9 ÷ 10	700	5	VN16
358-905	-0,9 ÷ 10	700	22	VN17

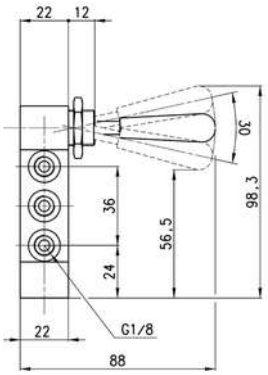
Valve Mod. 368-900





VN20





Mod.	Operating pressure [bar]	Flow [Nl/min]	Actuating force [N]
368-900	-0,9 ÷ 10	500	5

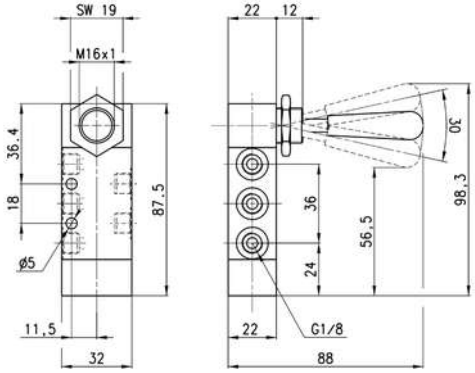
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Valve Mod. 368-905



VN21

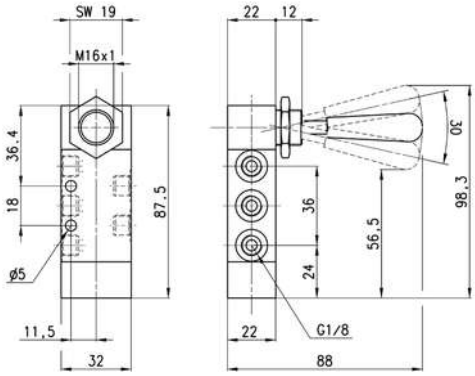


Mod.	Operating pressure [bar]	Flow [Nl/min]	Actuating force [N]
368-905	-0,9 ÷ 10	500	20

Valve Mod. 378-900



VN23

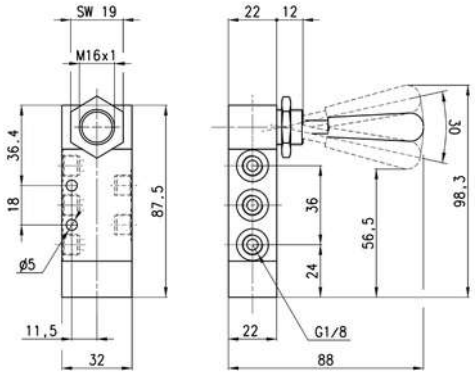


Mod.	Operating pressure [bar]	Flow [Nl/min]	Actuating force [N]
378-900	-0,9 ÷ 10	500	5
388-900	-0,9 ÷ 10	500	5

Valve Mod. 378-905



VN24

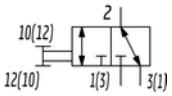


Mod.	Operating pressure [bar]	Flow [Nl/min]	Actuating force [N]
378-905	-0,9 ÷ 10	500	20
388-905	-0,9 ÷ 10	500	5

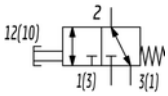
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Valves Mod. 434-91

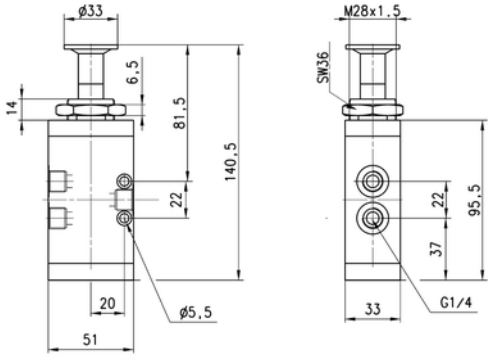




VN03



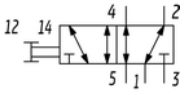
VN06



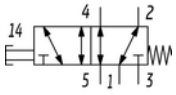
Mod.	Operating pressure [bar]	Flow [Nl/min]	Actuating force [N]	Symbol
434-910	-0,9 ÷ 10	1250	10	VN03
434-915	-0,9 ÷ 10	1250	37	VN06

Valves Mod. 454-91

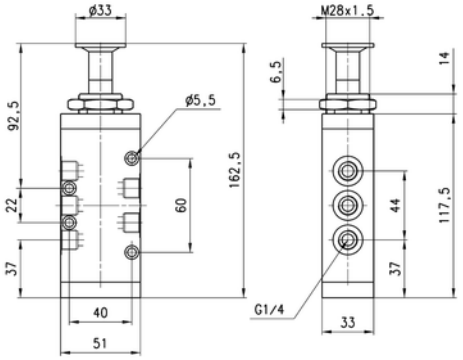




VN13



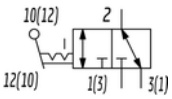
VN14



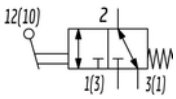
Mod.	Operating pressure [bar]	Flow [Nl/min]	Actuating force [N]	Symbol
454-910	-0,9 ÷ 10	1250	10	VN13
454-915	-0,9 ÷ 10	1250	37	VN14

Valves Mod. 434-90

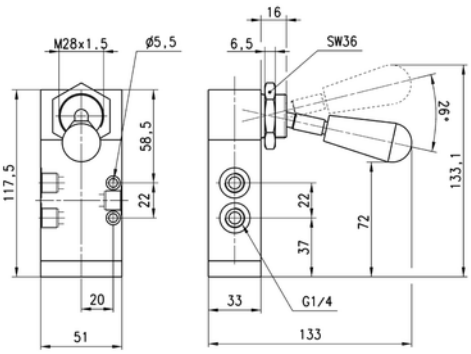




VN08



VN11

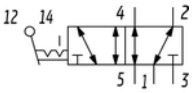


Mod.	Operating pressure [bar]	Flow [Nl/min]	Actuating force [N]	Symbol
434-900	-0,9 ÷ 10	1250	5	VN08
434-905	-0,9 ÷ 10	1250	37	VN11

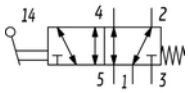
MANUALLY OPERATED VALVES
SERIES 1, 3, 4 AND VMS - DIMENSIONS

Valves Mod. 454-90

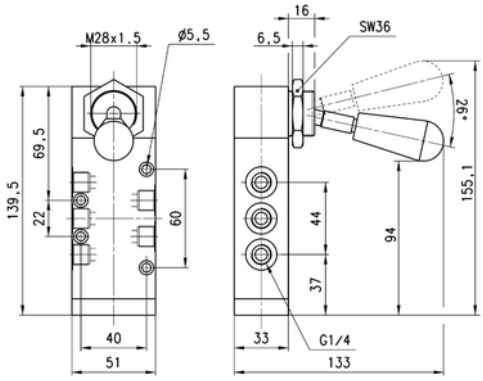




VN16



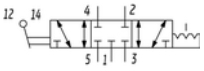
VN17



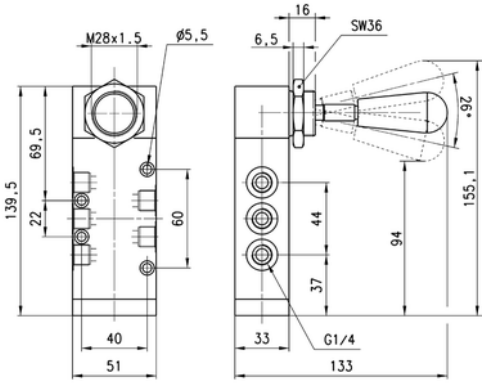
Mod.	Operating pressure [bar]	Flow [Nl/min]	Actuating force [N]	Symbol
454-900	-0,9 ÷ 10	1250	5	VN16
454-905	-0,9 ÷ 10	1250	37	VN17

Valve Mod. 464-900





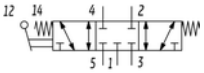
VN20



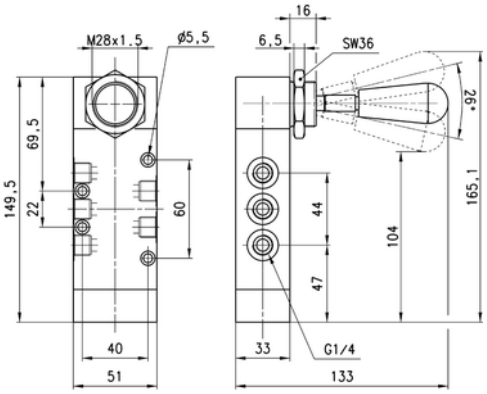
Mod.	Operating pressure [bar]	Flow [Nl/min]	Actuating force [N]
464-900	-0,9 ÷ 10	1250	5

Valve Mod. 464-905





VN21



Mod.	Operating pressure [bar]	Flow [Nl/min]	Actuating force [N]
464-905	-0,9 ÷ 10	1250	10

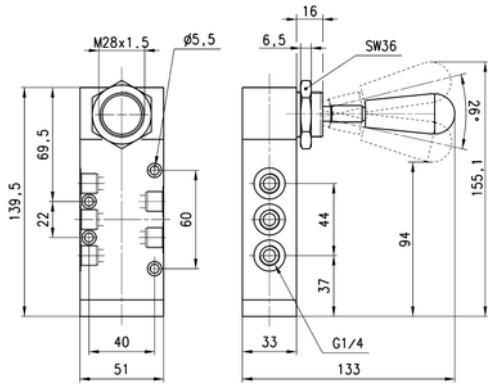
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Valve Mod. 474-900





VN23



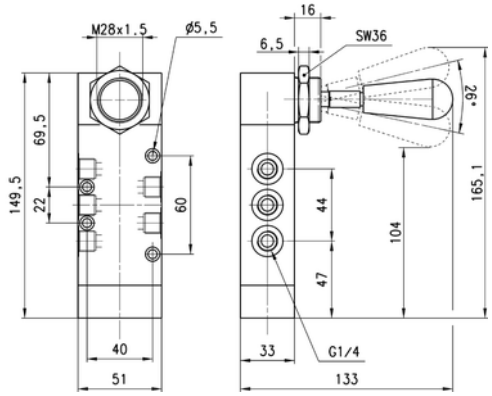
Mod.	Operating pressure [bar]	Flow [Nl/min]	Actuating force [N]
474-900	-0,9 ÷ 10	1250	5

Valve Mod. 474-905





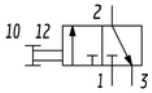
VN24



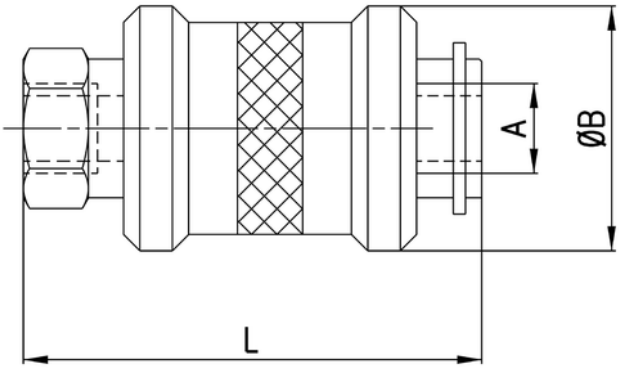
Mod.	Operating pressure [bar]	Flow [Nl/min]	Actuating force [N]
474-905	-0,9 ÷ 10	1250	10

Series VMS slide valves





VN01



Mod.	A	øB	L	Flow at 6 bar ΔP 1 [Nl/min] 1-2	Flow at 6 bar ΔP 1 [Nl/min] 2-3	Operating press. [bar]	Operating temp. [°C]
VMS-105-M5	M5	15	33,5	140	145	0 ÷ 15	-10 ÷ 80
VMS-118-1/8	G1/8	25	48	600	740	0 ÷ 15	-10 ÷ 80
VMS-114-1/4	G1/4	30	58	1200	1780	0 ÷ 15	-10 ÷ 80
VMS-138-3/8	G3/8	35	70	2100	1830	0 ÷ 15	-10 ÷ 80
VMS-112-1/2	G1/2	40	80	3350	4030	0 ÷ 15	-10 ÷ 80
VMS-134-3/4	G3/4	49,5	83	5350	5000	0 ÷ 15	-10 ÷ 80

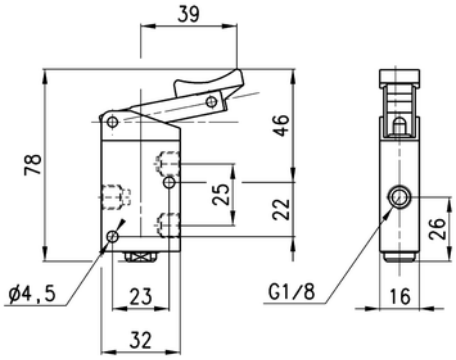
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MANUALLY OPERATED VALVES
SERIES 1, 3, 4 AND VMS - DIMENSIONS

Valve Mod. 138-935



VN04

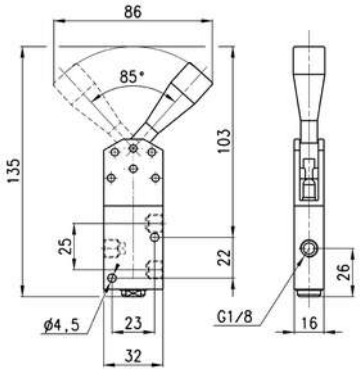


Mod.	Operating pressure [bar]	Flow [Nl/min]	Actuating force [N]
138-935	0 ÷ 10	500	38

Valve Mod. 138-900

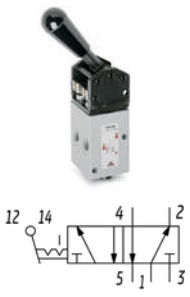


VN07

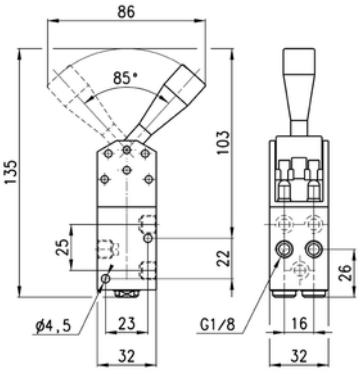


Mod.	Operating pressure [bar]	Flow [Nl/min]	Actuating force [N]
138-900	0 ÷ 10	500	25

Valve Mod. 158-900



VN15



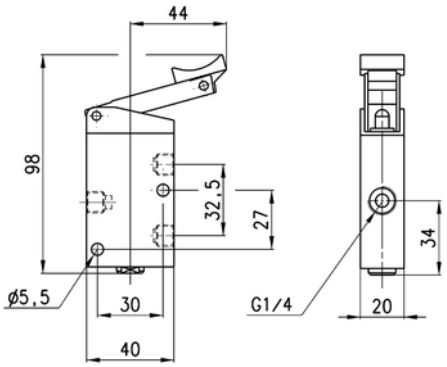
Mod.	Operating pressure [bar]	Flow [Nl/min]	Actuating force [N]
158-900	0 ÷ 10	500	45

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Valve Mod. 134-935



VN04

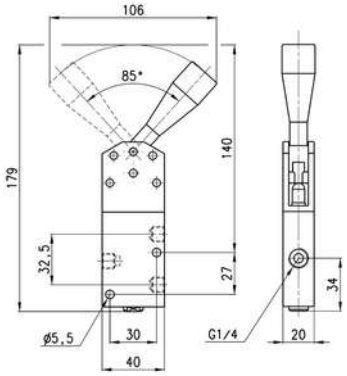


Mod.	Operating pressure [bar]	Flow [Nl/min]	Actuating force [N]
134-935	0 ÷ 10	1250	40

Valve Mod. 134-900

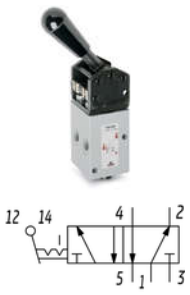


VN07

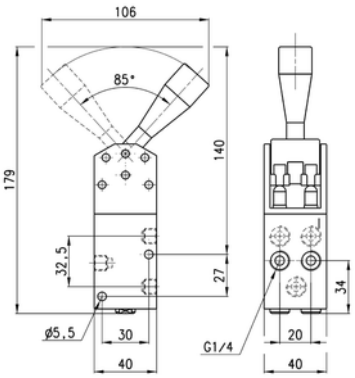


Mod.	Operating pressure [bar]	Flow [Nl/min]	Actuating force [N]
134-900	0 ÷ 10	1250	30

Valve Mod. 154-900



VN15



Mod.	Operating pressure [bar]	Flow [Nl/min]	Actuating force [N]
154-900	0 ÷ 10	1250	55

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