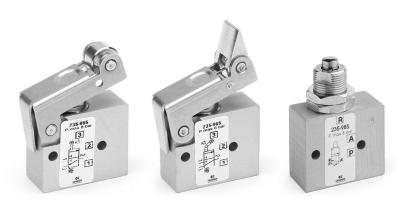


Series 2 mechanically operated minivalves

3/2-way Ports M5, cartridge ø 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 Ø 4mm tubes.

The devices are actuated by a plunger, roller/lever or a unidirectional lever.

GENERAL DATA

Constructionpoppet typeValve group3-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, Ø4mm cartridge

Room temperature 0°C ÷ 60°C Fluid temperature 0°C ÷ 50°C Operating pressure 2 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
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2 SERIES

FUNCTION 3 3 = 3/2-way NC 4 = 3/2-way NO

PORTS 4

4 = cartridge ø 4mm 5 = M5

94

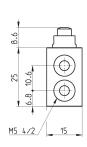
ACTUATION
94 = plunger
95 = lever/roller
96 = unidirectional lever
98 = plunger, panel mounting

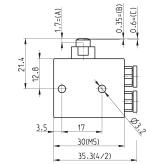
RESETTING 5= spring return 5

Minivalves with plunger



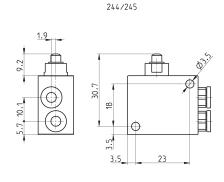
DRAWING LEGEND A = total stroke B = pre-stroke C = effective stroke







234/235





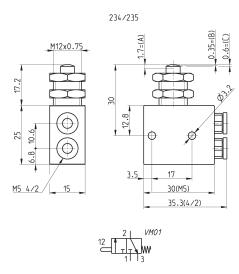
Mod.	Operating pressure (bar)	Flow Qn (Nl/min)	Actuating force at 6 bar (N)	SYMBOL
234-945	2 ÷ 10	60	6	VM01
235-945	2 ÷ 10	60	6	VM01
244-945	2 ÷ 10	60	6	VM03
245-945	2 ÷ 10	60	6	VM03

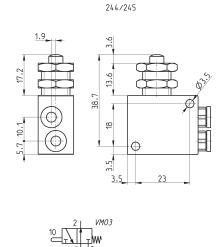


Minivalves with plunger, panel mounting



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



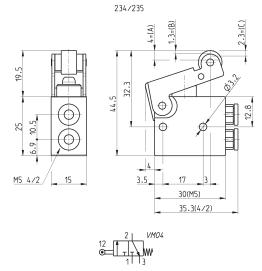


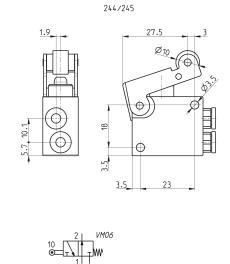
Mod.	Operating pressure (bar)	Flow Qn (Nl/min)	Actuating force at 6 bar (N)	SYMBOL
234-985	2 ÷ 10	60	6	VM01
235-985	2 ÷ 10	60	6	VM01
244-985	2 ÷ 10	60	6	VM03
245-985	2 ÷ 10	60	6	VM03

Minivalves with lever/roller



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





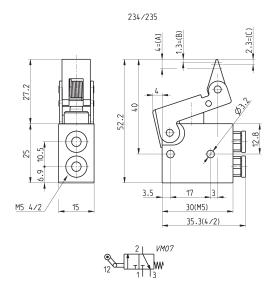
Mod.	Operating pressure (bar)	Flow Qn (Nl/min)	Actuating force at 6 bar (N)	SYMBOL
234-955	2 ÷ 10	60	6	VM04
235-955	2 ÷ 10	60	6	VM04
244-955	2 ÷ 10	60	6	VM06
245-955	2 ÷ 10	60	6	VM06

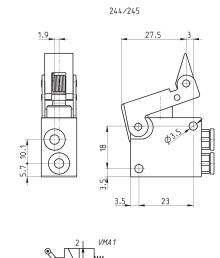


Minivalves, unidirectional lever



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	2 ÷ 10	60	6	VM07
235-965	2 ÷ 10	60	6	VM07
244-965	2 ÷ 10	60	6	VMA1
245-965	2 ÷ 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.

3/2-way monostable valves Series 3 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.

5/2-way valves Series 3 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, brass poppet, 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.



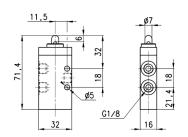
CODING EXAMPLE

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				

Valve Mod. 338-945





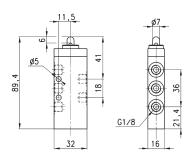


Mod.	Operating pressure (bar)	Flow (Nl/min)	Actuating force (N)
338-945	-0.9 ÷ 10	700	32



Valve Mod. 358-945



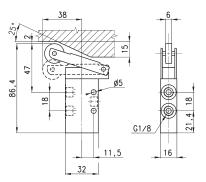




Mod.	Operating pressure (bar)	Flow (Nl/min)	Actuating force (N)
358-945	-0.9 ÷ 10	700	35

Valve Mod. 338-955



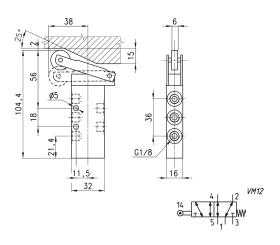




Mod.	Operating pressure (bar)	Flow (Nl/min)	Actuating force (N)
338-955	-0.9 ÷ 10	700	15

Valve Mod. 358-955



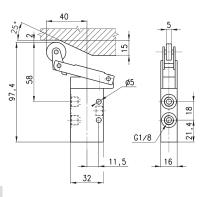


Mod.	Operating pressure (bar)	Flow (Nl/min)	Actuating force (N)
358-955	-0.9 ÷ 10	700	17

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Valve Mod. 338-965





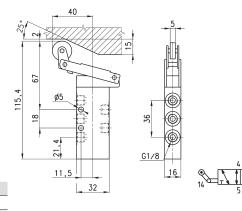
	2	VM08
%	1 - 1	w
12(10)	1(3)	13(1)

VM13

Mod.	Operating pressure (bar)	Flow (Nl/min)	Actuating force (N)
338-965	-0.9 ÷ 10	700	15

Valve Mod. 358-965

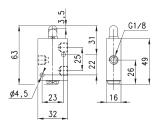




Mod.	Operating pressure (bar)	Flow (Nl/min)	Actuating force (N)
358-965	-0.9 ÷ 10	700	16

Valve Mod. 138-945



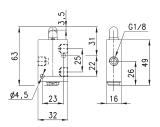




Mod.	Operating pressure (bar)	Flow rate (Nl/min)	Actuating force at 6 bar (N)
138-945	0 ÷ 10	500	70

Valve Mod. 148-945





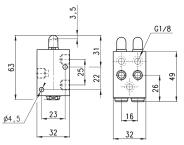
2	VM03
10 1	

Mod.	Operating pressure (bar)	Flow rate (Nl/min)	Actuating force at 6 bar (N)
148-945	0 ÷ 10	500	70



Valve Mod. 158-945



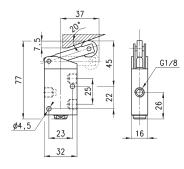


	4	12	VM09
14 T	$\downarrow \mid \downarrow$	Z-w	٧
	5	1 13	

Mod.	Operating pressure (bar)	Flow rate (Nl/min)	Actuating force at 6 bar (N)
158-945	0 ÷ 10	500	120

Valve Mod. 138-955







Mod.	Operating pressure (bar)	Flow rate (Nl/min)	Actuating force at 6 bar (N)
138-955	0 ÷ 10	500	36

Valve Mod. 158-955

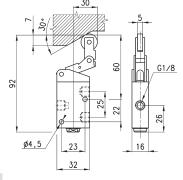


04,5 23 32 VM11

Mod.	Operating pressure (bar)	Flow rate (Nl/min)	Actuating force at 6 bar (N)
158-955	0 ÷ 10	500	92

Valve Mod. 138-965





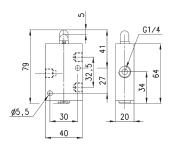


Mod.	Operating pressure (bar)	Flow rate (Nl/min)	Actuating force at 6 bar (N)
138-965	0 ÷ 10	500	41

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Valve Mod. 134-945



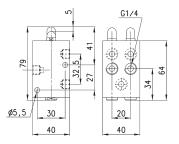




Mod.	Operating pressure (bar)	Flow rate (Nl/min)	Actuating force at 6 bar (N)
134-945	0 ÷ 10	1250	64

Valve Mod. 154-945



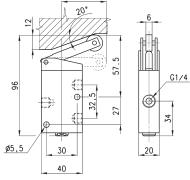




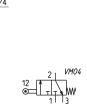
Mod.	Operating pressure (bar)	Flow rate (Nl/min)	Actuating force at 6 bar (N)
154-945	0 ÷ 10	1250	147

Valve Mod. 134-955





20°



Mod.	Operating pressure (bar)	Flow rate (Nl/min)	Actuating force at 6 bar (N)
134-955	0 ÷ 10	1250	41

Valve Mod. 154-955



96	9 30	27.5	
	40		

5 /	9	22.5 G1/7	20	VM1
5_/		<u>G1/4</u>	2040	14 T W

Mod.	Operating pressure (bar)	Flow rate (Nl/min)	Actuating force at 6 bar (N)	
154-955	0 ÷ 10	1250	110	