

Miniature valves (2-way direct operated)

2/2

ACTUATION	BODY MATERIAL	FUNCTION	CONNECTION	ORIFICE (MM)	MAX. PRESSURE (BAR)	PAGE
Direct operated	Brass body	Normally closed	1/8	.8 to 4	56.0	38
		Normally open	1/8	.8 to 2.4	21.0	40
	303 Stainless steel body	Normally closed	1/8	.8 to 4	56.0	40
		Normally open	1/8	.8 to 2.4	21.0	42
	Aluminium alloy body	Normally closed	SB	1.2 to 1.6	35.0	42
		Normally open	SB	1.2 to 2.4	14.0	42

Notes:

Direct operated valves: pressure range from 0 to max pressure.

Miniature valves (2-way direct operated)

2/2

Applications

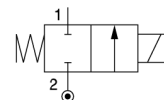
The Miniature Series is a small size and low power consumption valve line. It is available in 2-way (normally closed and normally open) and 3-way (normally closed and normally open) versions. These valves are equipped with integrated molded coils with tab or lead termination.

Direct operated

Port size	Orifice (mm)	Flow factors (L/min)			Admissible differential pressure bar			Fluid temp. °C			Seat disc	Reference numbers				Power consumption (W)		Wt. (g)	Dim ref.
		Liquids kv	Qmax	Gases Qn	Min	Max		Gas	Liquid	Oil		Global valve reference	Valve reference	Housing	Coil	DC	AC		

Brass body/Pipe mounting

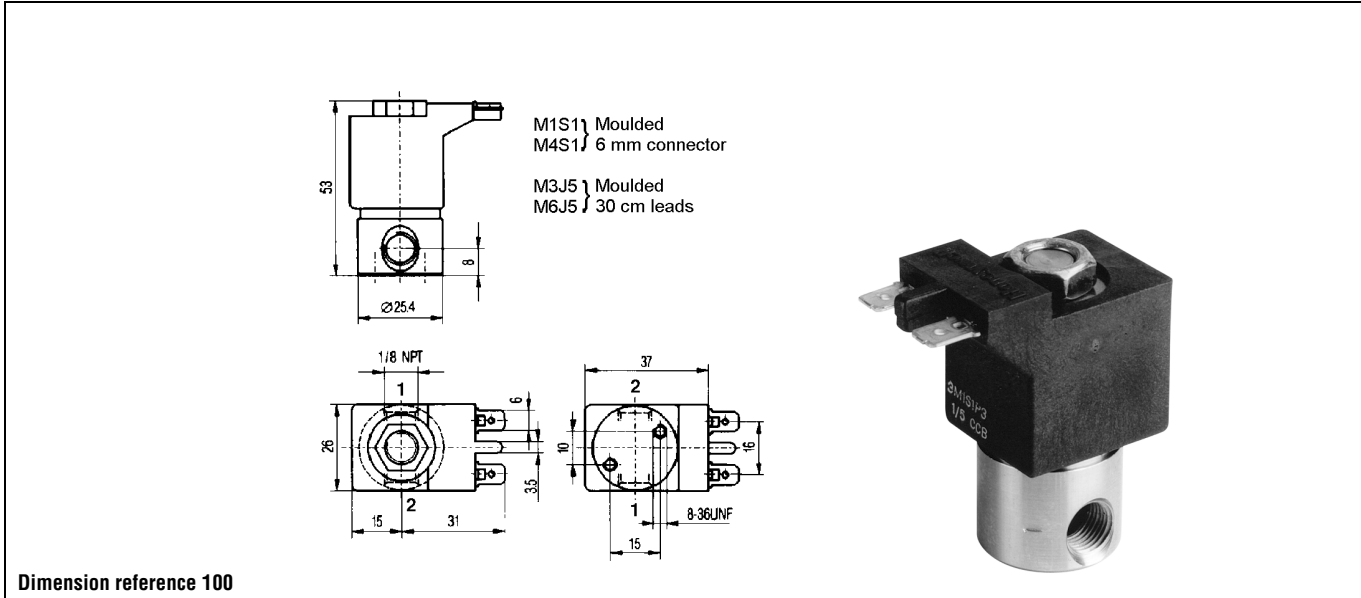
Normally closed



1/8	0.8	0.43	-	-	0	56	56	50	50	50	FKM	3121BBN1AV00	-	NO	M1S1	4.5	4.5	-	100
	0.8	0.43	-	-	0	56	56	50	50	50	FKM	3121BBN1AV00	-	NO	M3J5	4.5	4.5	-	100
	0.8	0.43	-	-	0	54	54	50	50	50	FKM	3921BBN1AV00	-	NO	M4S1	2.5	2.5	-	100
	0.8	0.43	-	-	0	54	54	50	50	50	FKM	3921BBN1AV00	-	NO	M6J5	2.5	2.5	-	100
	1.2	0.72	-	-	0	35	35	50	50	50	FKM	3121BBN1EV00	-	NO	M1S1	4.5	4.5	-	100
	1.2	0.72	-	-	0	35	35	50	50	50	FKM	3121BBN1EV00	-	NO	M3J5	4.5	4.5	-	100
	1.2	0.72	-	-	0	21	21	50	50	50	FKM	3921BBN1EV00	-	NO	M4S1	2.5	2.5	-	100
	1.2	0.72	-	-	0	21	21	50	50	50	FKM	3921BBN1EV00	-	NO	M6J5	2.5	2.5	-	100
	1.6	1.29	-	-	0	21	21	50	50	50	FKM	3121BBN1GV00	-	NO	M1S1	4.5	4.5	-	100
	1.6	1.29	-	-	0	21	21	50	50	50	FKM	3121BBN1GV00	-	NO	M3J5	4.5	4.5	-	100
	1.6	1.29	-	-	0	6.6	6.6	50	50	50	FKM	3921BBN1GV00	-	NO	M4S1	2.5	2.5	-	100
	1.6	1.29	-	-	0	6.6	6.6	50	50	50	FKM	3921BBN1GV00	-	NO	M6J5	2.5	2.5	-	100
	2	1.86	-	-	0	14	14	50	50	50	FKM	3121BBN1JV00	-	NO	M1S1	4.5	4.5	-	100
	2	1.86	-	-	0	14	14	50	50	50	FKM	3121BBN1JV00	-	NO	M3J5	4.5	4.5	-	100
	2	1.86	-	-	0	4.5	4.5	50	50	50	FKM	3921BBN1JV00	-	NO	M4S1	2.5	2.5	-	100
	2	1.86	-	-	0	4.5	4.5	50	50	50	FKM	3921BBN1JV00	-	NO	M6J5	2.5	2.5	-	100
	2.4	2.57	-	-	0	12.25	12.25	50	50	50	FKM	3121BBN1LV00	-	NO	M1S1	4.5	4.5	-	100
	2.4	2.57	-	-	0	12.25	12.25	50	50	50	FKM	3121BBN1LV00	-	NO	M3J5	4.5	4.5	-	100
	2.4	2.57	-	-	0	2.8	2.8	50	50	50	FKM	3921BBN1LV00	-	NO	M4S1	2.5	2.5	-	100
	2.4	2.57	-	-	0	2.8	2.8	50	50	50	FKM	3921BBN1LV00	-	NO	M6J5	2.5	2.5	-	100
	3.2	3.43	-	-	0	7	7	50	50	50	FKM	3121BBN1NV00	-	NO	M1S1	4.5	4.5	-	100
	3.2	3.43	-	-	0	7	7	50	50	50	FKM	3121BBN1NV00	-	NO	M3J5	4.5	4.5	-	100
	3.2	3.43	-	-	0	0.28	0.28	50	50	50	FKM	3921BBN1NV00	-	NO	M4S1	2.5	2.5	-	100
	3.2	3.43	-	-	0	0.28	0.28	50	50	50	FKM	3921BBN1NV00	-	NO	M6J5	2.5	2.5	-	100
	4	4.3	-	-	0	3.5	3.5	50	50	50	FKM	3121BBN1QV00	-	NO	M1S1	4.5	4.5	-	100
	4	4.3	-	-	0	3.5	3.5	50	50	50	FKM	3121BBN1QV00	-	NO	M3J5	4.5	4.5	-	100

Table continued on page 40

Miniature valves 2/2 - Direct operated

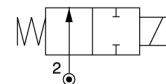


Miniature valves 2/2 - Direct operated

Port size	Orifice (mm)	Flow factors (L/min)			Admissible differential pressure bar			Fluid temp. °C			Seat disc	Reference numbers				Power consumption (W)		Wt. (g)	Dim ref.
		Liquids		Gases	Min	Max		Gas	Liquid	Oil		Global valve reference	Valve reference	Housing	Coil	DC	AC		
		kv	Qmax			DC	AC												
G				Qn															

Brass body/Pipe mounting

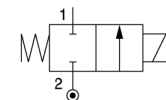
Normally open



1/8	0.8	0.43	-	-	0	21	21	50	50	50	FKM	3129BBN1AV00	-	NO	M1S1	4.5	4.5	-	100
	0.8	0.43	-	-	0	21	21	50	50	50	FKM			NO	M3J5	4.5	4.5	-	
	1.2	0.72	-	-	0	14	14	50	50	50	FKM	3129BBN1EV00	-	NO	M1S1	4.5	4.5	-	100
	1.2	0.72	-	-	0	14	14	50	50	50	FKM			NO	M3J5	4.5	4.5	-	
	1.6	1.29	-	-	0	10.5	10.5	50	50	50	FKM	3129BBN1GV00	-	NO	M1S1	4.5	4.5	-	100
	1.6	1.29	-	-	0	10.5	10.5	50	50	50	FKM			NO	M3J5	4.5	4.5	-	
	2	1.86	-	-	0	5.6	5.6	50	50	50	FKM	3129BBN1JV00	-	NO	M1S1	4.5	4.5	-	100
	2	1.86	-	-	0	5.6	5.6	50	50	50	FKM			NO	M3J5	4.5	4.5	-	
	2.4	2.57	-	-	0	2.8	2.8	50	50	50	FKM	3129BBN1LV00	-	NO	M1S1	4.5	4.5	-	100
	2.4	2.57	-	-	0	2.8	2.8	50	50	50	FKM			NO	M3J5	4.5	4.5	-	

303 Stainless steel body/Pipe mounting

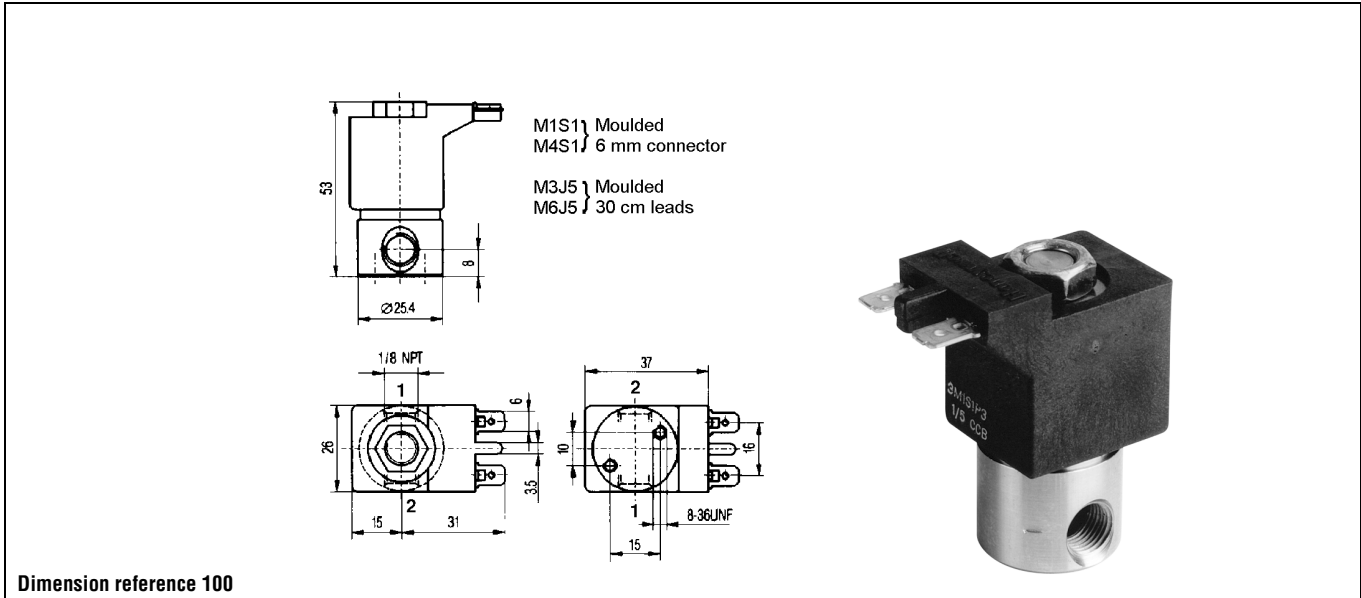
Normally closed



1/8	0.8	0.43	-	-	0	56	56	50	50	50	FKM	3121BSN1AV00	-	NO	M1S1	4.5	4.5	-	100
	0.8	0.43	-	-	0	56	56	50	50	50	FKM			NO	M3J5	4.5	4.5	-	
	0.8	0.43	-	-	0	54	54	50	50	50	FKM	3921BSN1AV00	-	NO	M4S1	2.5	2.5	-	100
	0.8	0.43	-	-	0	54	54	50	50	50	FKM			NO	M6J5	2.5	2.5	-	
	1.2	0.72	-	-	0	35	35	50	50	50	FKM	3121BSN1EV00	-	NO	M1S1	4.5	4.5	-	100
	1.2	0.72	-	-	0	35	35	50	50	50	FKM			NO	M3J5	4.5	4.5	-	
	1.2	0.72	-	-	0	21	21	50	50	50	FKM	3921BSN1EV00	-	NO	M4S1	2.5	2.5	-	100
	1.2	0.72	-	-	0	21	21	50	50	50	FKM			NO	M6J5	2.5	2.5	-	
	1.6	1.29	-	-	0	21	21	50	50	50	FKM	3121BSN1GV00	-	NO	M1S1	4.5	4.5	-	100
	1.6	1.29	-	-	0	21	21	50	50	50	FKM			NO	M3J5	4.5	4.5	-	
	1.6	1.29	-	-	0	6.6	6.6	50	50	50	FKM	3921BSN1GV00	-	NO	M4S1	2.5	2.5	-	100
	1.6	1.29	-	-	0	6.6	6.6	50	50	50	FKM			NO	M6J5	2.5	2.5	-	
	2	1.86	-	-	0	14	14	50	50	50	FKM	3121BSN1JV00	-	NO	M1S1	4.5	4.5	-	100
	2	1.86	-	-	0	14	14	50	50	50	FKM			NO	M3J5	4.5	4.5	-	
	2	1.86	-	-	0	4.5	4.5	50	50	50	FKM	3921BSN1JV00	-	NO	M4S1	2.5	2.5	-	100
	2	1.86	-	-	0	4.5	4.5	50	50	50	FKM			NO	M6J5	2.5	2.5	-	
	2.4	2.57	-	-	0	12.25	12.25	50	50	50	FKM	3121BSN1LV00	-	NO	M1S1	4.5	4.5	-	100
	2.4	2.57	-	-	0	12.25	12.25	50	50	50	FKM			NO	M3J5	4.5	4.5	-	
	2.4	2.57	-	-	0	2.8	2.8	50	50	50	FKM	3921BSN1LV00	-	NO	M4S1	2.5	2.5	-	100
	2.4	2.57	-	-	0	2.8	2.8	50	50	50	FKM			NO	M6J5	2.5	2.5	-	
	3.2	3.43	-	-	0	7	7	50	50	50	FKM	3121BSN1NV00	-	NO	M1S1	4.5	4.5	-	100
	3.2	3.43	-	-	0	7	7	50	50	50	FKM			NO	M3J5	4.5	4.5	-	
	3.2	3.43	-	-	0	0.28	0.28	50	50	50	FKM	3921BSN1NV00	-	NO	M4S1	2.5	2.5	-	100
	3.2	3.43	-	-	0	0.28	0.28	50	50	50	FKM			NO	M6J5	2.5	2.5	-	
	4	4.3	-	-	0	3.5	3.5	50	50	50	FKM	3121BSN1QV00	-	NO	M1S1	4.5	4.5	-	100
	4	4.3	-	-	0	3.5	3.5	50	50	50	FKM			NO	M3J5	4.5	4.5	-	

Table continued on page 42

Miniature valves 2/2 - Direct operated

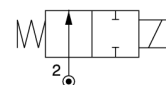


Miniature valves 2/2 - Direct operated

Port size	Orifice (mm)	Flow factors (L/min)			Admissible differential pressure bar			Fluid temp. °C			Seat disc	Reference numbers				OR	Power consumption (W)		Wt. (g)	Dim ref.
		Liquids kv	Qmax	Gases Qn	Min	Max		Gas	Liquid	Oil		Global valve reference	Valve reference	Housing	Coil		DC	AC		
G						DC	AC													

303 Stainless steel body/Pipe mounting

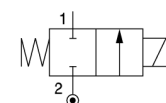
Normally open



1/8	0.8	0.43	-	-	0	21	21	50	50	50	FKM	3129BSN1AV00	-	N0	M1S1	4.5	4.5	-	100
	0.8	0.43	-	-	0	21	21	50	50	50	FKM			N0	M3J5	4.5	4.5	-	
	1.2	0.72	-	-	0	14	14	50	50	50	FKM	3129BSN1EV00	-	N0	M1S1	4.5	4.5	-	100
	1.2	0.72	-	-	0	14	14	50	50	50	FKM			N0	M3J5	4.5	4.5	-	
	1.6	1.29	-	-	0	10.5	10.5	50	50	50	FKM	3129BSN1GV00	-	N0	M1S1	4.5	4.5	-	100
	1.6	1.29	-	-	0	10.5	10.5	50	50	50	FKM			N0	M3J5	4.5	4.5	-	
	2	1.86	-	-	0	5.6	5.6	50	50	50	FKM	3129BSN1JV00	-	N0	M1S1	4.5	4.5	-	100
	2	1.86	-	-	0	5.6	5.6	50	50	50	FKM			N0	M3J5	4.5	4.5	-	
	2.4	2.57	-	-	0	2.8	2.8	50	50	50	FKM	3129BSN1LV00	-	N0	M1S1	4.5	4.5	-	100
	2.4	2.57	-	-	0	2.8	2.8	50	50	50	FKM			N0	M3J5	4.5	4.5	-	

Aluminium alloy body/Sub-base mounting

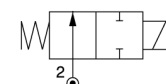
Normally closed



SB	1.2	0.72	-	-	0	35	35	50	50	50	FKM	3121BJA7EVC#	- 1	N0	M1S1	4.5	4.5	-	101
	1.2	0.72	-	-	0	35	35	50	50	50	FKM		1	N0	M3J5	4.5	4.5	-	
	1.2	0.72	-	-	0	21	21	50	50	50	FKM	3921BJA7EVC#	- 1	N0	M4S1	2.5	2.5	-	101
	1.2	0.72	-	-	0	21	21	50	50	50	FKM		1	N0	M6J5	2.5	2.5	-	
	1.6	1.29	-	-	0	21	21	50	50	50	FKM	3121BJA7GVC#	- 1	N0	M1S1	4.5	4.5	-	101
	1.6	1.29	-	-	0	21	21	50	50	50	FKM		1	N0	M3J5	4.5	4.5	-	
	1.6	1.29	-	-	0	6.6	6.6	50	50	50	FKM	3921BJA7GVC#	- 1	N0	M4S1	2.5	2.5	-	101
	1.6	1.29	-	-	0	6.6	6.6	50	50	50	FKM		1	N0	M6J5	2.5	2.5	-	

Aluminium alloy body/Sub-base mounting

Normally open

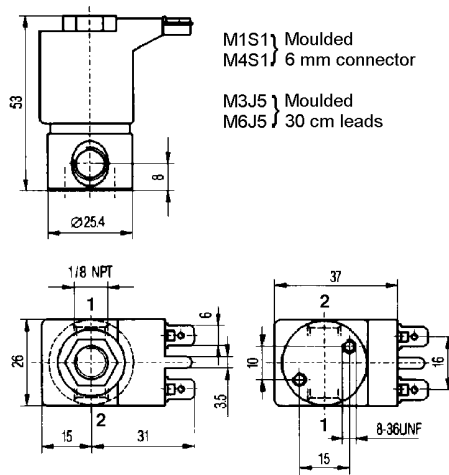


SB	1.2	0.72	-	-	0	14	14	50	50	50	FKM	3129BJA7EVC#	- 1	N0	M1S1	4.5	4.5	-	101
	1.2	0.72	-	-	0	14	14	50	50	50	FKM		1	N0	M3J5	4.5	4.5	-	
	1.6	1.29	-	-	0	10.5	10.5	50	50	50	FKM	3129BJA7GVC#	- 1	N0	M1S1	4.5	4.5	-	101
	1.6	1.29	-	-	0	10.5	10.5	50	50	50	FKM		1	N0	M3J5	4.5	4.5	-	
	2.4	1.29	-	-	0	2.8	2.8	50	50	50	FKM	3129BJA7LVC#	- 1	N0	M1S1	4.5	4.5	-	101
	2.4	1.29	-	-	0	2.8	2.8	50	50	50	FKM		1	N0	M3J5	4.5	4.5	-	

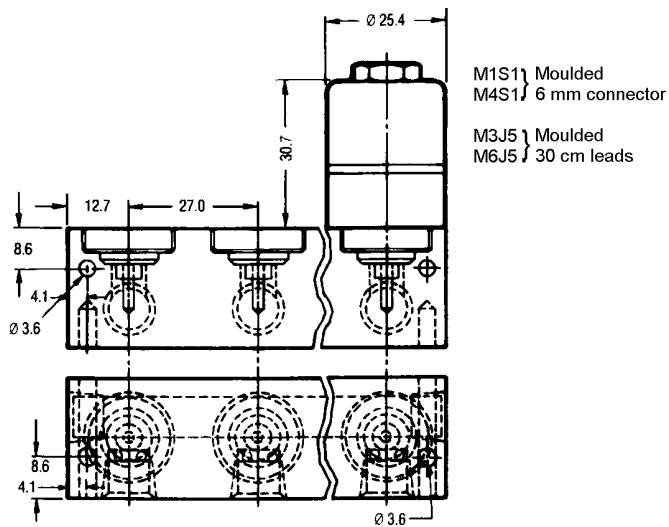
Notes:

1. # Denotes the number of valves in the manifold, from 2 to 4

Miniature valves 2/2 - Direct operated



Dimension reference 100



Dimension reference 101