

Shut-off Valve Types BML and BMT

		BM is a manual shut-off valve designed for installation in the liquid, suction and hot gas lines of refrigeration plant.
Features	 Can be used for HCFC and non-flammable HFC refrigerants Fitted with three stainless steel diaphragms that prevent leakage throughout the operating life of the valve. 	 Valve plate of polyamide nylon to give complete shut-off with minimum torque. Valve cover with counter-seat to prevent the ingress of moisture.

Approvals

UL CE



Shut-off Valve, types BML and BMT

Technical data

Temperature range	-55 – 100 °C
Working range	$\Delta p = -1 - 21 \text{ bar}$
Max. working pressure	PS/MWP = 28 bar/406 psig
Max. test pressure	Pe = 36.4 bar/528 psig

Ordering

Straightway version









ODF extended ends

Туре	Connection		K _v value (calculated value)		
		Flare	ODF solder	ODF extended ends	[m³/h]
BML 6	1/ ₄ in.	009G0101	009G0102	009G0202	0.3
BMLO	6 mm	—	009G0108	009G0208	0.3
DMI 10	³ / ₈ in.	009G0127	009G0122	009G0222	0.84
BML 10	10 mm	_	009G0128	009G0228	0.84
DAL 12	¹ / ₂ in.	009G0141	009G0142	009G0242	1.5
BML 12	12 mm	_	009G01t48	009G0248	1.5
BML 15	⁵/ ₈ in.	009G0168	009G0162	009G0262	2.2
BML 15	16 mm	_	009G0170	_	2.2
DMI 10	³ / ₄ in.	_	009G0181	_	2.9
BML 18	18 mm		009G0184	-	2.9
BMI 22	⁷ ∕ ₈ in.		009G0191	009G0291	2.9
BML 22	22 mm	—	009G0194	—	2.9

BMT

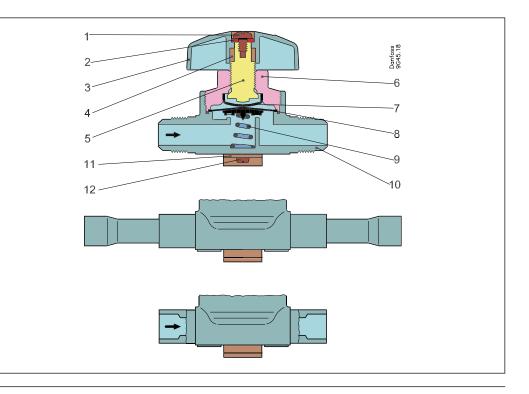


Туре	Connection		K _v value (calculated value)		
		Flare	ODF solder	ODF extended ends	[m³/h]
BMT 6	1/ ₄ in.	009G0105	—	—	0.3



 Screw
 Washer
 Handwheel
 Driver
 Spindle
 Cover
 Thrust pad
 Diaphragm with valve plate
 Spring
 Valve body
 Bracket
 Screw

Design / Function



The shut-off valves are fitted with three diaphragms of stainless steel which ensure long operating life.

BM valves are available in straightway, and threeway versions (BMT). The side connection of the three-way BMT can be shut off, but the end connections will always remain open. The BM can be fitted with a mounting bracket. Valve body, cover and spindle are made of brass, the handwheel (3) of coloured plastic. BM valves have a triple diaphragm seal (8) which is designed in such a way that the tension in the diaphragms lift the valve plate from the seat when the valve is opened. The valve plate itself is made of nylon and gives complete shut-off when the handwheel is lightly tightened.

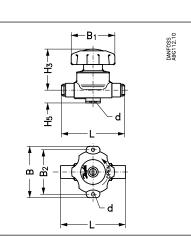
The thrust pad (7) prevents direct contact between spindle (5) and diaphragms (8). This also contributes to increased valve life. The spring (9) is able to hold the valve open at operating pressures down to -1 bar (pe). The counter-seat in the cover (6) prevents the ingress of moisture in fully open position. When the valve is opened, the pressure on the outlet side must not exceed the pressure on the inlet side by more than 1 bar.

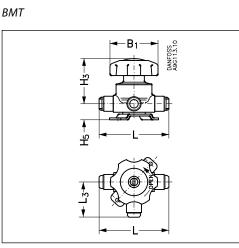
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Dimensions [mm] and weights [kg]









L2

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Туре	H ₃	H₅	L	L ₃	В	B ₁	B ₂	ød	Net weight
BML 6	46	15	77	_	62	50	50	5	0.3
BML 10	49	15	85	_	62	50	50	5	0.4
BML 12	56	18	102	_	70	60	56	6	0.5
BML 15	66	19	118	_	83	71	69	6	0.7
BMT 6	46	19	65	32.5	62	50	50	5	0.3

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 L_2

d

L

ODF solder version

Туре	H₃	H₅	L	L ₂	В	B ₁	B ₂	ød	Net weight
BML 6	46	17	117	7	62	50	50	5	0.3
BML 10	49	16	117	9	62	50	50	5	0.4
BML 12	55	18	128	10	70	60	56	6	0.5
BML 15	66	20	165	12	83	71	69	6	0.7
BML 18	66	22	176	14	83	71	69	6	0.8
BML 22	66	22	181	17	83	71	69	6	0.8

ODF solder extended ends version

Туре	H ₃	H₅	L	L ₂	В	B ₁	B ₂	ød	Net weight
BML 6	46	17	65	7	62	50	50	5	0.3
BML 10	49	16	72	9	62	50	50	5	0.4
BML 12	55	18	87	10	70	60	56	6	0.5
BML 15	65	20	106	12	83	71	69	6	0.7
BML 18	66	22	103	14	83	71	69	6	0.8
BML 22	66	22	103	17	83	71	69	6	0.8

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