

# AM - JM -TO SERIES

## Food Grade, Direct Acting

**AM** and **JM** are direct acting solenoid valves. The fixed core and armature tube are welded together to enhance pressure resistance and leak-tightness. Valves do not require a minimum operating pressure. A large selection of seal materials provides wide chemical compatibility. AC/DC interchangeability of the coil is possible for both NC and NO configurations.



### TECHNICAL DATA

<b>PORT CONNECTION</b>	G 1/8 (F), G1/8 (M), Hose connection Ø6, fast fitting, push in		
<b>SEALING MATERIALS</b>	FKM		EPDM*
<b>FLUID TEMPERATURE</b>	-10°C +140°C		-10°C +140°C
<b>FLUIDS</b>	Air, water, inert gas, steam		Water, inert gas, steam
<b>VISCOSITY</b>	12 cSt up to orifice 1.5 mm, 37 cSt for orifice 2.0 and 2.3 mm, 53 cSt for orifice 2.5 mm and above		
<b>TUBE Ø - COIL WIDTH - SERIES</b>	JM-AM	ø 10 mm - 22 mm	LBA05, LTA05 (class F), LBV05 (class H)
	JM-AM	ø 10 mm - 22 mm	LBV08 (class H), ED 50%
	AM	ø 13 mm - 30 mm	BDA08, BVA08 (class F), BDV08 (class H)
<b>INSTALLATION</b>	as required, preferably with actuator upright		
<b>PROTECTION DEGREE</b>	IP65 EN 60529 (DIN 40050) with plug connector		

\* Available on request with minimum order quantity.

### MATERIALS

<b>BODY</b>	PPS
<b>ORIFICE</b>	For JM series: PPS For AM series: stainless steel
<b>ARMATURE TUBE</b>	Stainless steel AISI series 300
<b>FIXED CORE</b>	Stainless steel AISI series 400
<b>PLUNGER</b>	Stainless steel AISI series 400
<b>PHASE DISPLACEMENT RING</b>	Gold plated copper
<b>SPRING</b>	Stainless steel AISI series 300
<b>SEALING</b>	V=FKM, E=EPDM

■ V = FKM+EPDM for valves with PPS body and PUSH IN connections.

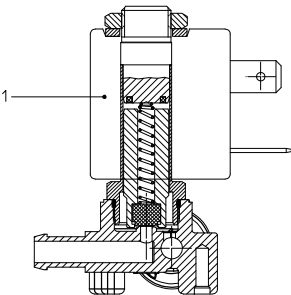
■ **CE**  
- 2014/35/EU (LVD)  
- 2014/30/EU (EMC)  
- 2014/68/EU (PED)  
art. 4.3 up to 1"

■ **UL** recognized and **VDE**  
approved coils are available  
for this series, please refer  
to coil section.

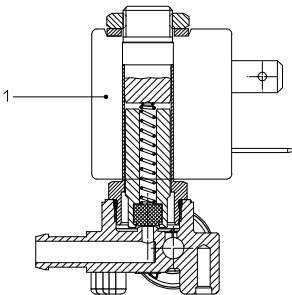
■ **NSF/ANSI 169** certification (Special  
Food Equipment and Devices) is available  
for this series. Valves with NSF approval  
are in compliance with CE regulation  
1935/2004. List of certified product codes  
available in the following tables.

■ The fluids listed in the "technical data" tables should be considered as a recommendation.  
Please check the chemical compatibility of the fluids with the materials of the valve at RFQ stage.  
■ G type thread in accordance with ISO 228/1.  
■ For spare parts list, please refer to the dedicated chapter.

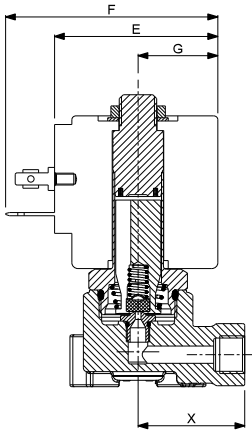
JM SERIES



JM SERIES, DC VERSION

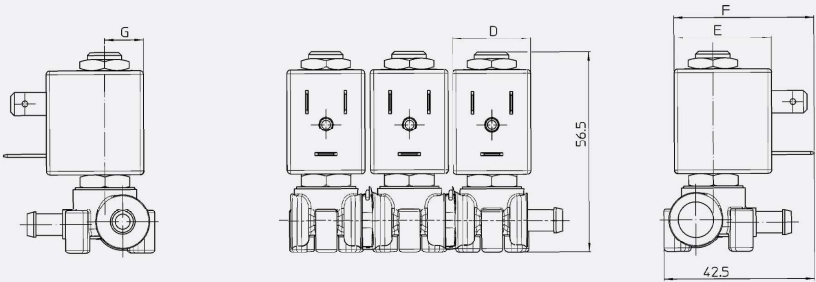


AM SERIES

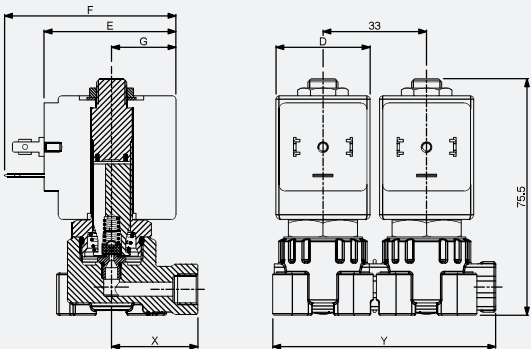


Solenoid Valves ■ General purpose ■ Food Grade ■ **AM - JM -TO SERIES**

DRAWING 1



DRAWING 2



SERIES	DIMENSIONS [mm]					
	D	E	F	G	X	Y
JM SERIES	22	28±1	39,5	11	-	-
AM SERIES	30	42	54	20,5	27,5	71 (G1/8 F) 74,5 (hose conn.)

**JM SERIES**

PIPE	ORIFICE SIZE [mm]	Kv [l/min]	COIL SERIES	PRESSURE [bar]			
				MIN.	MOPD		PS
					AC	DC	
REF. TO CODIFICATION TABLE	1,2	0,7	L**05	0	15	15	16
	1,5	1,1	L**05	0	15	15	16
	2	1,8	L**05	0	15	8	16
	2,3	2,3	L**05	0	15	6	16
	2,6	2,4	L**05	0	10	3,5	16

**JM SERIES,  
DC VERSION**

PIPE	ORIFICE SIZE [mm]	Kv [l/min]	COIL SERIES	MIN.	PRESSURE [bar]		
					MOPD		PS
					AC	DC	
REF. TO CODIFICATION TABLE	1,2	0,7	L**05	0	-	15	16
	1,5	1,1	L**05	0	-	15	16
	1,8	1,6	L**05	0	-	12	16
	1,8	1,6	LBV08*	0	-	16	16
	2	1,8	L**05	0	-	8	16
	2	1,8	LBV08*	0	-	16	16
	2,3	2,3	L**05	0	-	6	16
	2,6	2,4	L**05	0	-	3,5	16

■ \*LBV08 has ED50%. Please refer to coil chapter for further details.

**AM SERIES**

PIPE	ORIFICE SIZE [mm]	Kv [l/min]	COIL SERIES	MIN.	PRESSURE [bar]		
					MOPD		PS
					AC	DC	
REF. TO CODIFICATION TABLE	1,5	1	B**08	0	16	16	16
	2	1,8	B**08	0	16	16	16
	2,5	2,5	B**08	0	14	9	16
	3	3	B**08	0	10	6	16

- For application with steam or with PS > 16 bar please consult our Technical Service
- The Kv values refer to the orifice and do not take into account any reductions due to the size of the connection pipe
- Max torques: fittings 2 Nm, coil nut assembly 2 Nm, armature tube 4 Nm
- Use fitting seal compatible with body material
- Don't mount the groups with 1 or more elements cantilevered
- Not suitable for vacuum use
- Available on request and with minimum quantities.

I	II	III	IV	V	VI	VII	VIII	IX	X	XI		XII
2	4		M	A	2	V	BD	BD	BD	BD	-	TO

**I. NUMBER OF WAYS**

2 - 2 - way

**II. NUMBER OF ELEMENTS**

2 - number of elements

3 - number of elements

4 - number of elements

**III. ARMATURE TUBE MATERIAL**

Blank - std

6 - AISI (optional, NC element)

**IV. SERIES**

M - modular JM Series

**V. INLET SIDE**

A - right inlet

B - left inlet

X - double inlet

**VI. INLET CONNECTION**

1 - G1/8 (M)

2 - G1/8 (F)

3 - hose connection

4 - fast connection

U - PUSH IN for OD 4 mm

V - PUSH IN for OD 6 mm

**VII. SEALING MATERIAL**

V - FKM

E - EPDM

**VIII. FIRST ELEMENT TYPE****IX. SECOND ELEMENT TYPE****X. THIRD ELEMENT TYPE \***

\* blank if not used

**XI. FOURTH ELEMENT TYPE \***

\* blank if not used

**XII. NSF CERTIFICATION**

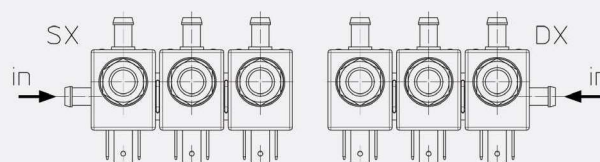
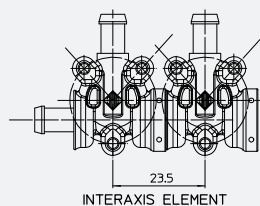
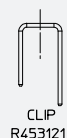
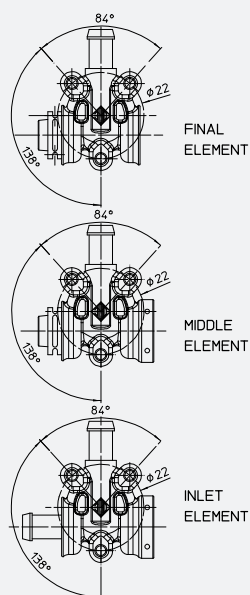
TO - PPS body

OUTLET CONN.	ORIFICE [mm]	VERSION	ELEMENT CODE
G1/8 (F)	1,2	AC, DC	AD
G1/8 (F)	1,5	AC, DC	AO
G1/8 (F)	2	AC, DC	AQ
G1/8 (F)	2,3	AC, DC	AE
G1/8 (F)	2,6	AC, DC	AF
G1/8 (F)	1,2	DC	AG
G1/8 (F)	1,5	DC	AR
G1/8 (F)	1,8	DC	AS
G1/8 (F)	2	DC	AT
G1/8 (F)	2,3	DC	AH
G1/8 (F)	2,6	DC	AI
G1/8 (M)	1,2	AC, DC	BD
G1/8 (M)	1,5	AC, DC	BO
G1/8 (M)	2	AC, DC	BQ
G1/8 (M)	2,3	AC, DC	BE
G1/8 (M)	2,6	AC, DC	BF
G1/8 (M)	1,2	DC	BG
G1/8 (M)	1,5	DC	BR
G1/8 (M)	1,8	DC	BS
G1/8 (M)	2	DC	BT
G1/8 (M)	2,3	DC	BH
G1/8 (M)	2,6	DC	BI
Hose connection	1,2	AC, DC	CD
Hose connection	1,5	AC, DC	CO
Hose connection	2	AC, DC	CQ
Hose connection	2,3	AC, DC	CE
Hose connection	2,6	AC, DC	CF
Hose connection	1,2	DC	CG
Hose connection	1,5	DC	CR
Hose connection	1,8	DC	CS
Hose connection	2	DC	CT
Hose connection	2,3	DC	CH
Hose connection	2,6	DC	CI

OUTLET CONN.	ORIFICE [mm]	VERSION	ELEMENT CODE
Fast fitting	1,2	AC, DC	DD
Fast fitting	1,5	AC, DC	DO
Fast fitting	2	AC, DC	DQ
Fast fitting	2,3	AC, DC	DE
Fast fitting	2,6	AC, DC	DF
Fast fitting	1,2	DC	DG
Fast fitting	1,5	DC	DR
Fast fitting	1,8	DC	DS
Fast fitting	2	DC	DT
Fast fitting	2,3	DC	DH
Fast fitting	2,6	DC	DI
P.I. Ø4mm	1,2	AC, DC	ED
P.I. Ø4mm	1,5	AC, DC	EO
P.I. Ø4mm	2	AC, DC	EQ
P.I. Ø4mm	2,3	AC, DC	EE
P.I. Ø4mm	2,6	AC, DC	EF
P.I. Ø4mm	1,2	DC	EG
P.I. Ø4mm	1,5	DC	ER
P.I. Ø4mm	1,8	DC	ES
P.I. Ø4mm	2	DC	ET
P.I. Ø4mm	2,3	DC	EH
P.I. Ø4mm	2,6	DC	EI
P.I. Ø6mm	1,2	AC, DC	FD
P.I. Ø6mm	1,5	AC, DC	FO
P.I. Ø6mm	2	AC, DC	FQ
P.I. Ø6mm	2,3	AC, DC	FE
P.I. Ø6mm	2,6	AC, DC	FF
P.I. Ø6mm	1,2	DC	FG
P.I. Ø6mm	1,5	DC	FR
P.I. Ø6mm	1,8	DC	FS
P.I. Ø6mm	2	DC	FT
P.I. Ø6mm	2,3	DC	FH
P.I. Ø6mm	2,6	DC	FI

■ Please contact ODE to configure manifolds of 5 elements and above

■ Some element types/combinations have a minimum order quantity. Please contact ODE before order.



# AM SERIES - CODIFICATION

I	II	III	IV	V	VI	VII		VIII
<b>G</b>	<b>2</b>	<b>M</b>	<b>A</b>	<b>2</b>	<b>V</b>	<b>0003</b>	<b>-</b>	<b>TO</b>

## I. TYPE OF VALVE

**G** - manifold

## II. NUMBER OF ELEMENTS

**2** - number of elements

**3** - number of elements

**4** - number of elements

## III. SERIES

**M** - modular AM Series

## IV. INLET SIDE

**A** - right inlet

**B** - left inlet

## V. INLET CONNECTION

**2** - G1/8 (F)

**3** - hose connection

## VI. SEALING MATERIAL

**V** - FKM

**E** - EPDM

## VII. SERIAL NUMBER

## VIII. NSF CERTIFICATION

**TO** - PPS body

- Serial number is to be assigned by ODE for every specific configuration. Please contact ODE before order.
- Please contact ODE to configure manifolds of 5 elements and above
- Some element types/combinations have a minimum order quantity. Please contact ODE before order.

