

## PRESENTATION:

Direct acting S.V. for interception of fluids compatible with the construction materials.

Minimum operational pressure is not required.

The materials used and the tests carried out ensure maximum reliability and duration..

**USE:** Automation, Sterilization  
Vending

**PIPES:** G 1/8 male/female; Ø 6 (hose connection);  
fast fitting

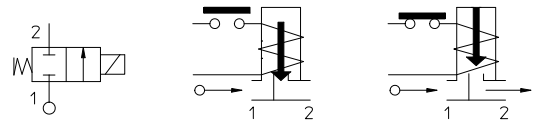
**COILS:** 5W - Ø 10  
LBA 155°C (class F)  
LBV 180°C (class H)

**MOULDING AND BOBBIN ARE MADE BY 100% VIRGIN MATERIAL.**

Max. allowable pressure (PS) 16 bar (25 bar)  
Ambient temperature:  
with coil class F - 10°C + 60°C  
with coil class H - 10°C + 80°C



Gaskets	Temperature		Medium
V=FKM (fluoroelastomer)	- 10°C	+140°C	Air, water, iner gasi, steam
B=NBR (nitrile rubber)	- 10°C	+ 90°C	Water, air, inert gas



For left inlet replace the letter "A" with "B" Es. 23MB1VBDBDBD.

Pipe ISO 228/1	Std code n. 3 modules (inlet right)	Max viscosity		Ø mm	Kv l/mn	Power (watt)	Pressure		
		cSt	°E				min bar	M.O.P.D. AC bar DC bar	
G 1/8 male	23MA1VBDBDBD	12	~ 2	1,2	0,8	5	0	15	15
	23MA1VBEBEBE	37	~ 5	2,3	2			10	6
	23MA1VBFBFBF	53	~ 7	2,6	2,5			15	3,5
G 1/8 female	23MA2VADADAD	12	~ 2	1,2	0,8			15	15
	23MA2VAEAEAE	37	~ 5	2,3	2			10	6
	23MA2VAFAFAF	53	~ 7	2,6	2,5			15	3,5

Pipe ISO 228/1	Std code n. 3 modules (inlet right)	Max viscosity		Ø mm	Kv l/mn	Power (watt)	Pressure		
		cSt	°E				min bar	M.O.P.D. AC bar DC bar	
Ø 6 ext.	23MA3VDCDCDCD	12	~ 2	1,2	0,8	5	0	15	15
	23MA3VCECECE	37	~ 5	2,3	2			10	6
	23MA3VCFCFCF	53	~ 7	2,6	2,5			15	3,5
Fast fitting	23MA4VDDDDDD	12	~ 2	1,2	0,8			15	15
	23MA4VDEDEDE	37	~ 5	2,3	2			10	6
	23MA4VDFDFDF	53	~ 7	2,6	2,5			15	3,5

## Note

Max torque for fittings and nut assembly 2 Nm. Evaluate tightening torque for tapered fittings.

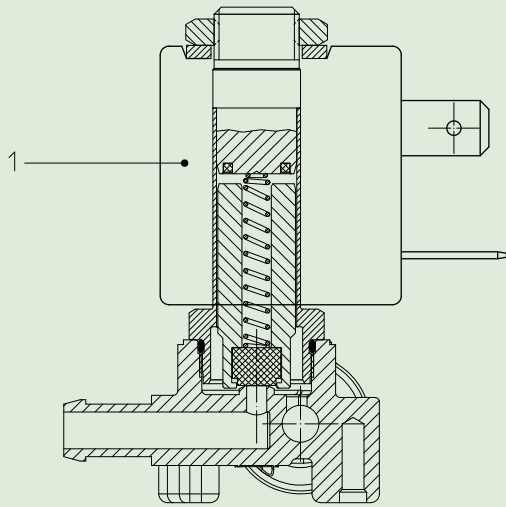
In case glue is used to seal the fittings, verify the compatibility with body material (PPS)

Don't mount the groups with 1 or more elements cantilever.

For application with steam or with PS above the 16 bar , please consult our Technical Service.

Available on request and with minimum quantities.

The "APPA " reserves the right to carry out technical and aesthetic modifications without prior notification.



#### MATERIALS:

<b>Body</b>	PPS
<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>Seal</b>	V=FKM
<b>Orificie</b>	PPS

#### On request:

<b>Connector</b>	Pg 9 o Pg 11
<b>Connector conformity</b>	ISO 4400

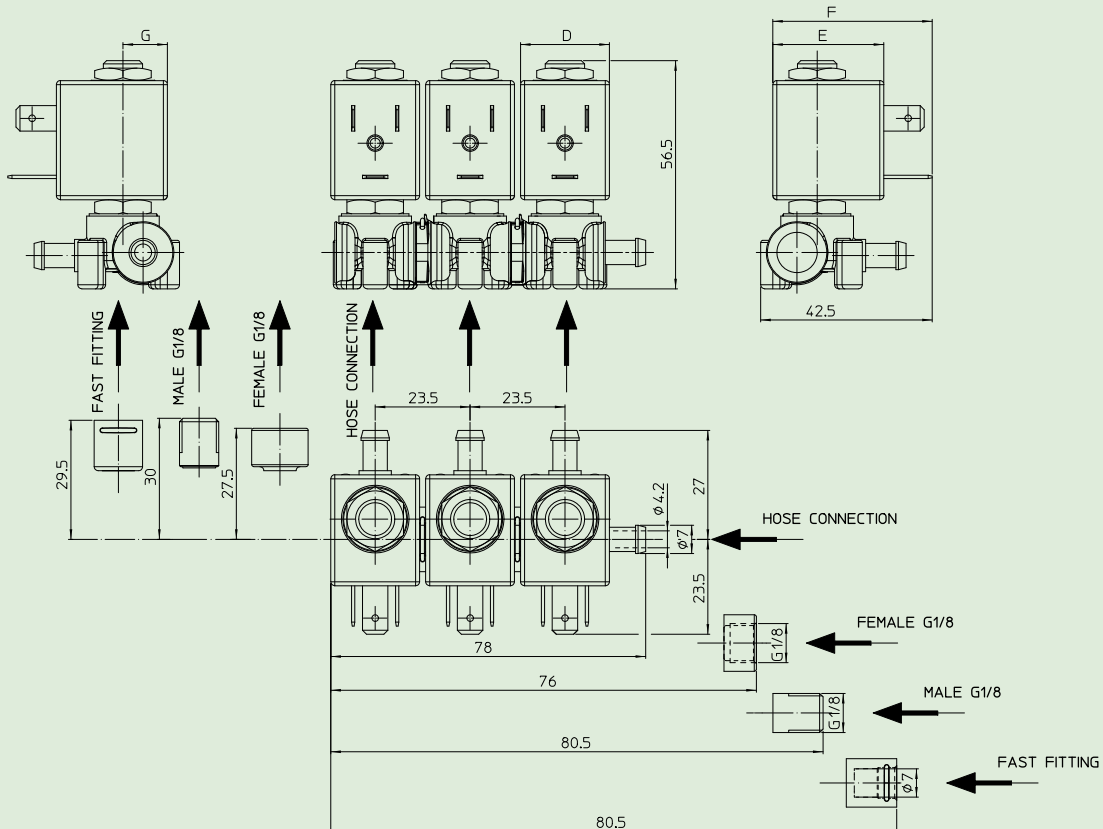
#### FEATURES:

<b>Electrical conformity</b>	IEC 335
<b>Protection degree</b>	IP 65 EN 60529 (DIN 40050) with coil fitted by connector.

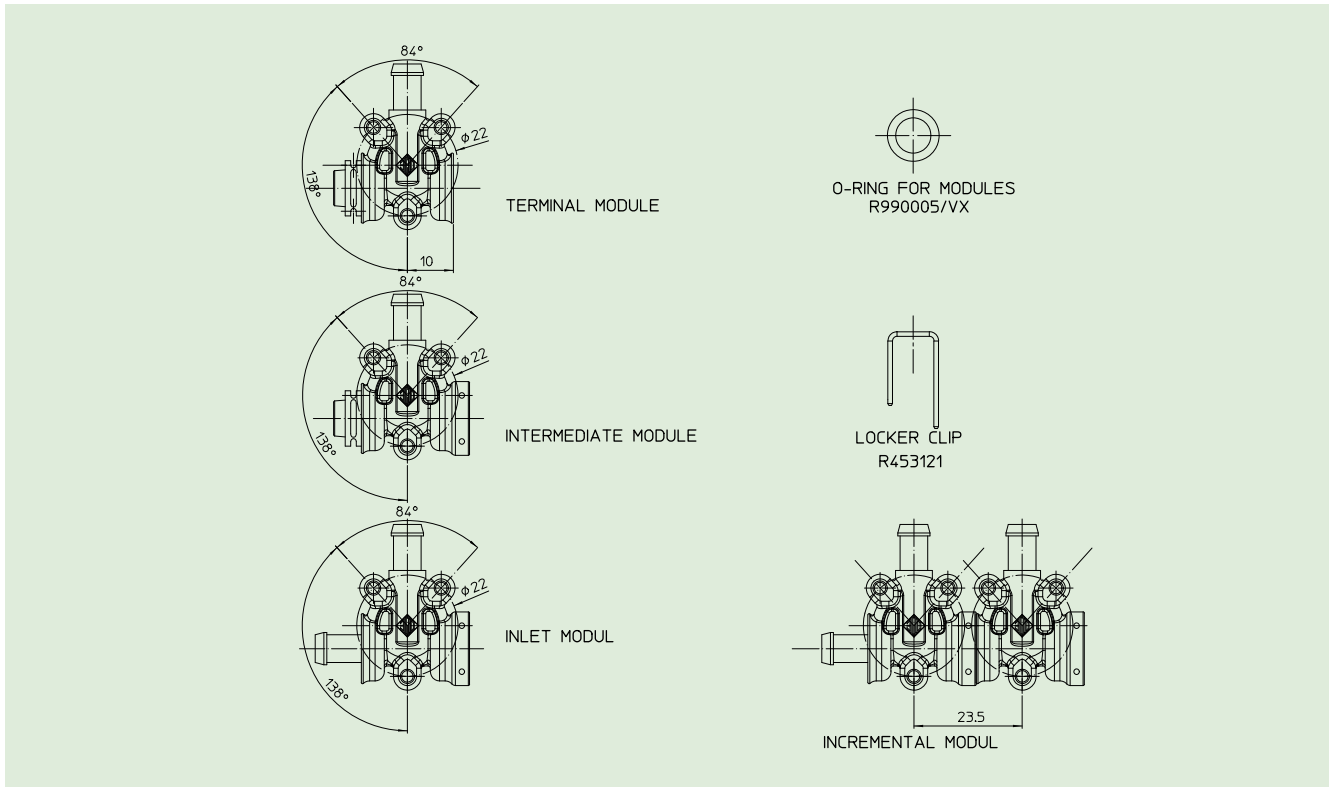
#### SPARE PARTS:

1. **Coil:**  
See coils list
  2. **Gasket O-Ring:**  
Code R990005/VX
- Lock:**  
Code R453121

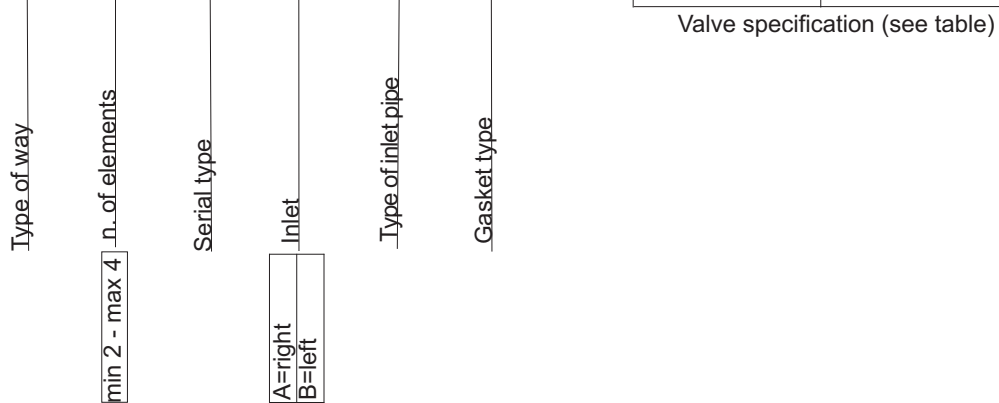
#### DIMENSIONS:



COIL TYPE	POWER ABSORPTION			DIMENSIONS			
	W ==	Hold VA ~	Inrush VA ~	D mm	E mm	F mm	G mm
L	5	10	15	22	27,5	39,5	11



2	3	M	A	1	V	B	D	B	D	B	D
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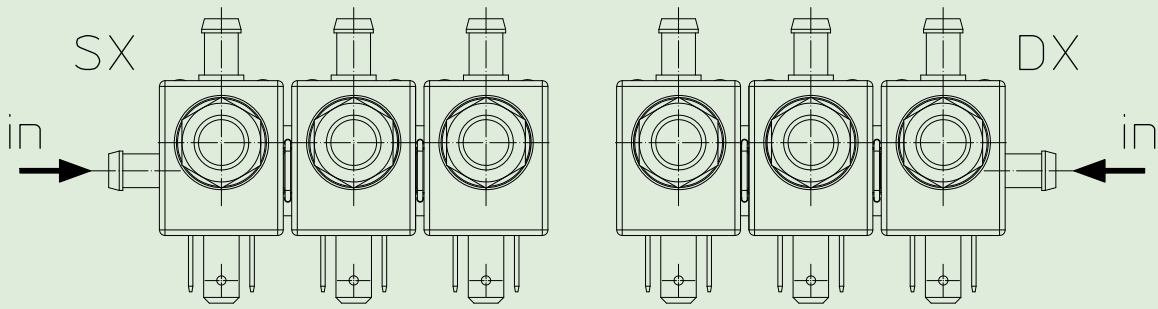
Pipe outlet	Ø orifice	Element code
1	1,2	BD
2		AD
3		CD
4		DD
1	2,3	BE
2		AE
3		CE
4	DE	
1	2,6	BF
2		AF
3		CF
4		DF

Pipe code / outlet			
1	G 1/8 male	3	Hose connection
2	G 1/8 female	4	Fast fitting

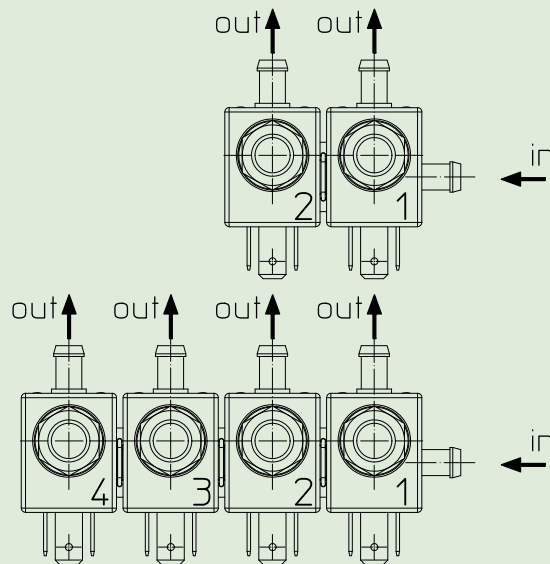
**Description/example**

- 2= number of way
- 3=n. 3 elements
- M= Modular plastic series
- A= Set S.V. with right inlet
- 1= Inlet G 1/8 male
- V= FKM Seal
- BA= Outlet G 1/8; Ø orifice 1,2; fixed core type R1
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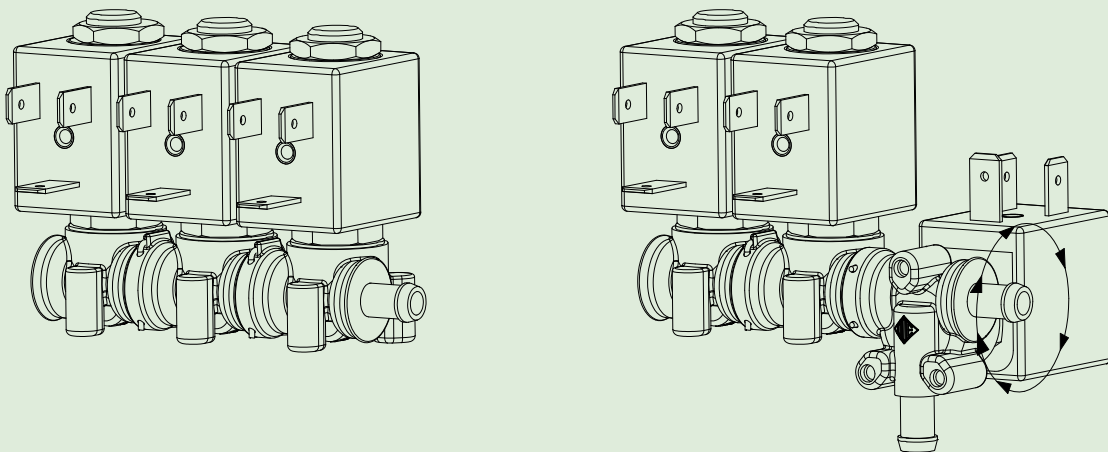
## TYPE WITH LEFT AND RIGHT INLET



## SET S.V. FROM N. 2 TO N. 4 S.V.



## ROTATIONAL STEP TO 90°



# Modular Solenoid valve 2/2 way N.C. Direct acting - NSF Certified

JM Series  
R1 gold-plated

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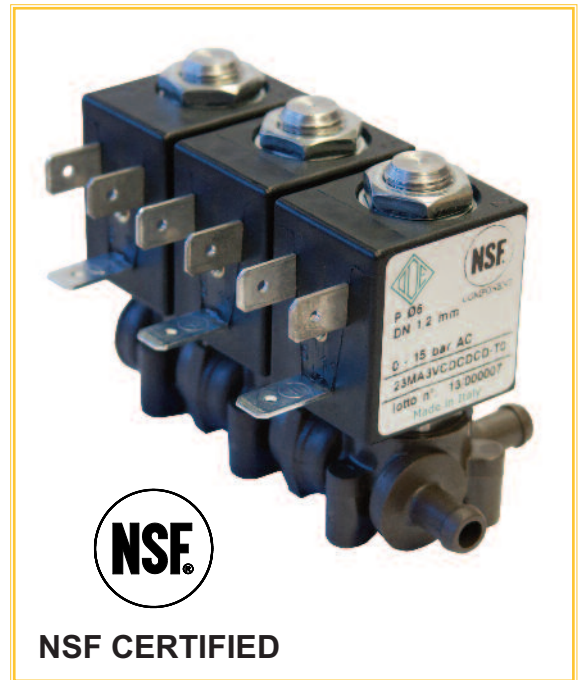
**USE:** Automation, Sterilization  
Vending

**PIPES:** G 1/8 male/female; Ø 6 (hose connection);  
fast fitting

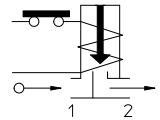
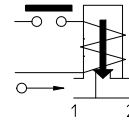
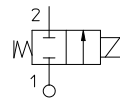
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Pipe ISO 228/1	Std code n. 3 modules (inlet right)	Max viscosity		Ø mm	Kv l/mn	Power (watt)	Pressure		
		cSt	°E				min bar	M.O.P.D. AC bar DC bar	
G 1/8 male	23MA1VBDBDBD-T0	12	~ 2	1,2	0,8	5	0	15	15
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	23MA1VBFBFBF-T0	53	~ 7	2,6	2,5			10	3,5
G 1/8 female	23MA2VADADAD-T0	12	~ 2	1,2	0,8			15	15
	23MA2VAEAEAE-T0	37	~ 5	2,3	2			6	
	23MA2VAFAFAF-T0	53	~ 7	2,6	2,5			10	3,5

Pipe ISO 228/1	Std code n. 3 modules (inlet right)	Max viscosity		Ø mm	Kv l/mn	Power (watt)	Pressure		
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Ø 6 ext.	23MA3VCDCCDCD-T0	12	~ 2	1,2	0,8	5	0	15	15
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Fast fitting	23MA4VDDDDDD-T0	12	~ 2	1,2	0,8			15	15
	23MA4VDEDEDE-T0	37	~ 5	2,3	2			6	
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### Note

Max torque for fittings and nut assembly 2 Nm. Evaluate tightening torque for tapered fittings.

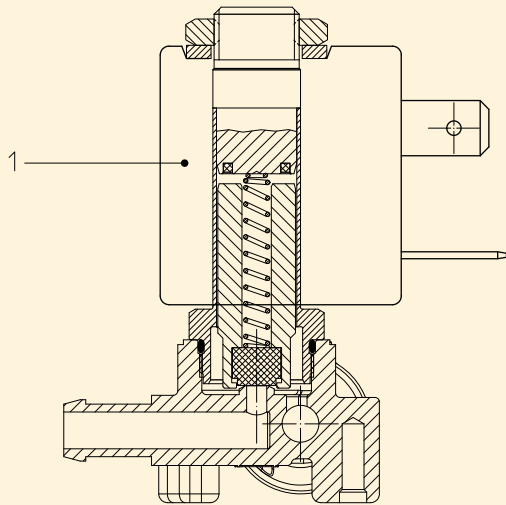
In case glue is used to seal the fittings, verify the compatibility with body material (PPS)

Don't mount the groups with 1 or more elements cantilever.

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Available on request and with minimum quantities.

"ODE " se réserve le droit d'apporter des modifications technique et esthétique sans avis préalable.



**MATERIALS:**

<b>Body</b>	PPS
<b>Armature tube</b>	Stainless steel AISI series 300
<b>Fixed core</b>	Stainless steel AISI series 400
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<b>Seal</b>	V=FKM
<b>Orifice</b>	PPS

**On request:**

<b>Connector</b>	Pg 9 o Pg 11
<b>Connector conformity</b>	ISO 4400

**FEATURES:**

<b>Electrical conformity</b>	IEC 335
<b>Protection degree</b>	IP 65 EN 60529 (DIN 40050) with coil fitted by connector.

**SPARE PARTS**

**1. Coil:**

See coils list

**O-Ring for modules:**

Code R990005/VX

**Locker clip:**

Code R453121

**ACCESSORIES:**

Tube (int.Ø 2 mm; ext.Ø 4mm)  
for fast fitting

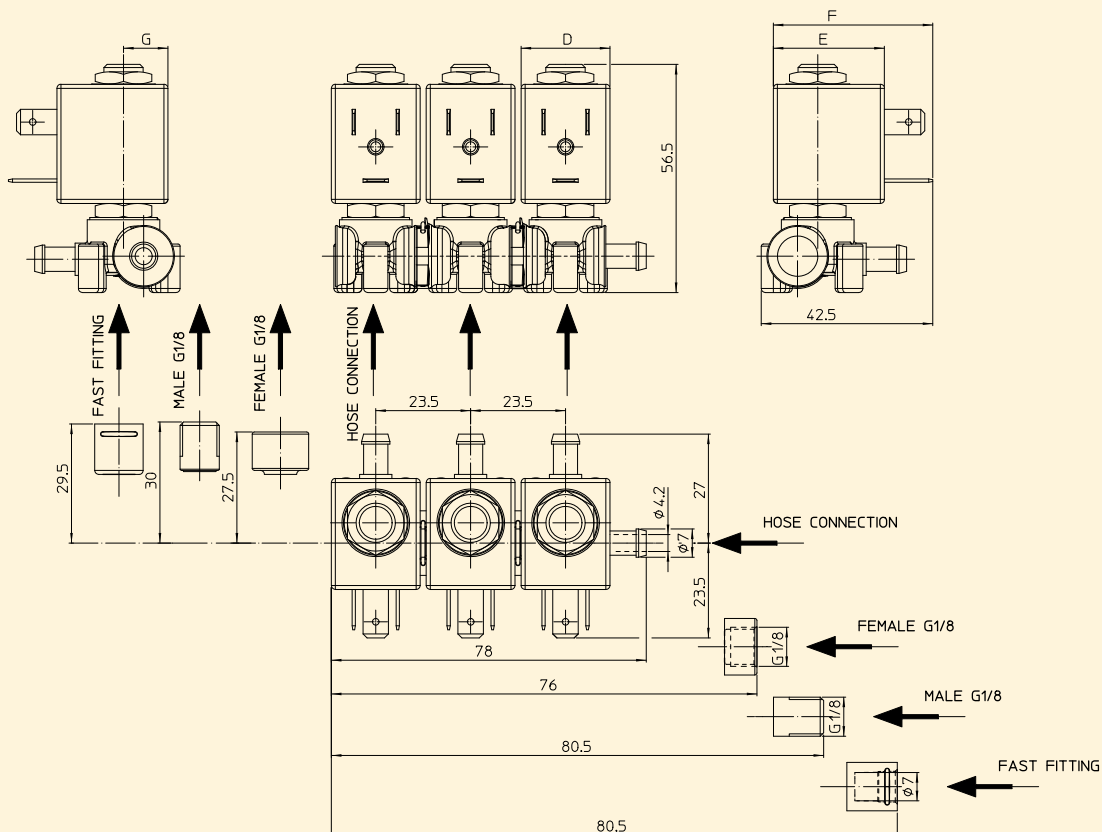
Code R453130/

Tube with male fitting

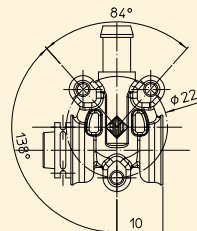
Code R453154/

Tube with double male fitting

(see catalogue page)



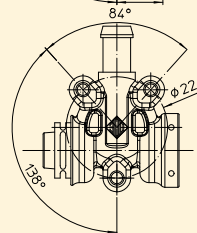
COIL TYPE	POWER ABSORPTION			DIMENSIONS			
	W ==	Hold VA ~	Inrush VA ~	D mm	E mm	F mm	G mm
L	5	10	15	22	27,5	39,5	11



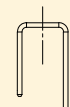
TERMINAL MODULE



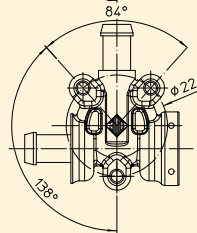
O-RING FOR MODULES  
R990005/VX



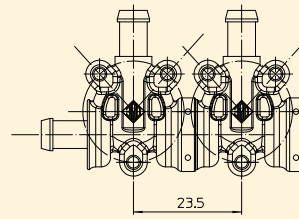
INTERMEDIATE MODULE



LOCKER CLIP  
R453121



INLET MODULE



INCREMENTAL MODULE

2	3	M	A	1	V	B	D	B	D	B	D	-	T	0
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Type of way

n° of elements  
min 2 - max 4

Serial type

Inlet  
A=right  
B=left

Type of inlet pipe

Gasket type

Valve specification (see label)

NSF Approved

Pipe outlet	Ø orifice	Element code
1	1,2	BD
2		AD
3		CD
4	2,3	DD
1		BE
2		AE
3	CE	
4	2,6	DE
1		BF
2		AF
3	CF	
4	DF	

Pipe code inlet / outlet			
1	G 1/8 male	3	Hose connection
2	G 1/8 female	4	Fast fitting

**Description/example**

2= number of way

3=n. 3 elements

M= Modular plastic series

A= Set S.V. with right inlet

1= Inlet G 1/8 male

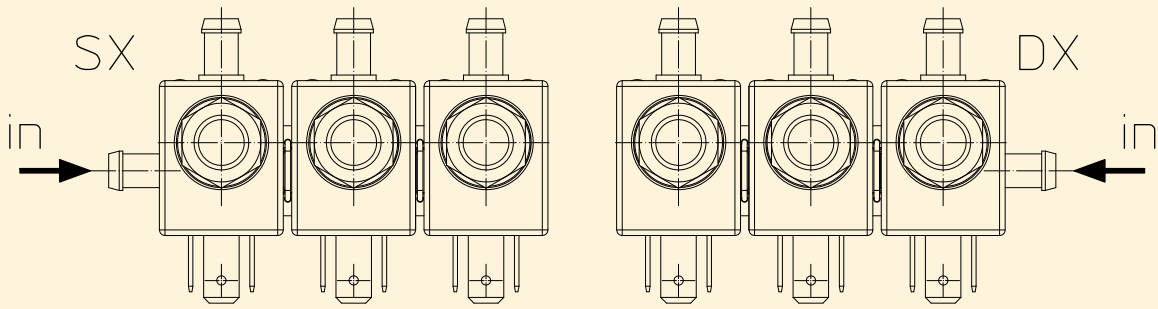
V= FKM Seal

BA= Outlet G 1/8; Ø orifice 1,2; fixed core type R1

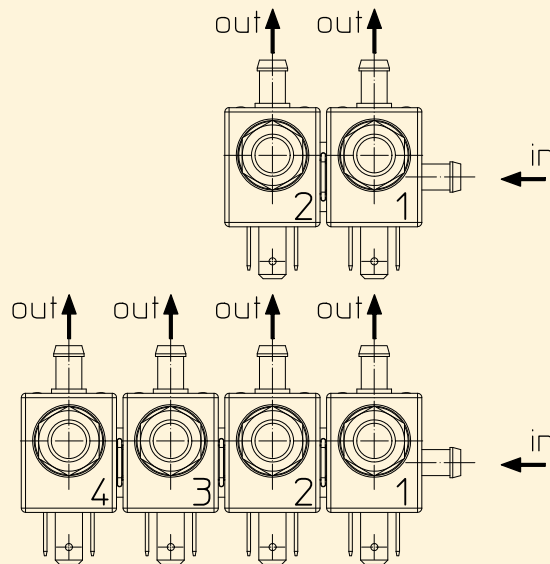
BA= Outlet G 1/8; Ø orifice 1,2; fixed core type R1

BA= Outlet G 1/8; Ø orifice 1,2; fixed core type R1

## TYPE WITH LEFT AND RIGHT INLET



## SET S.V. FROM N. 2 TO N. 4 S.V.



## ROTATIONAL STEP TO 90°

