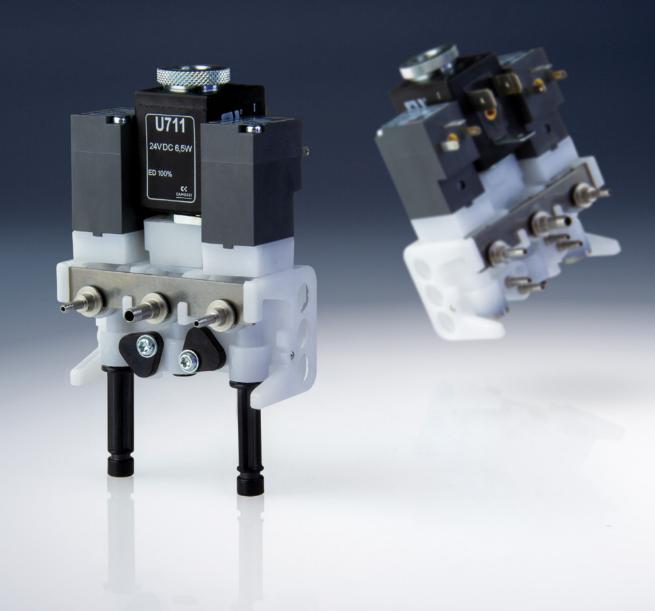
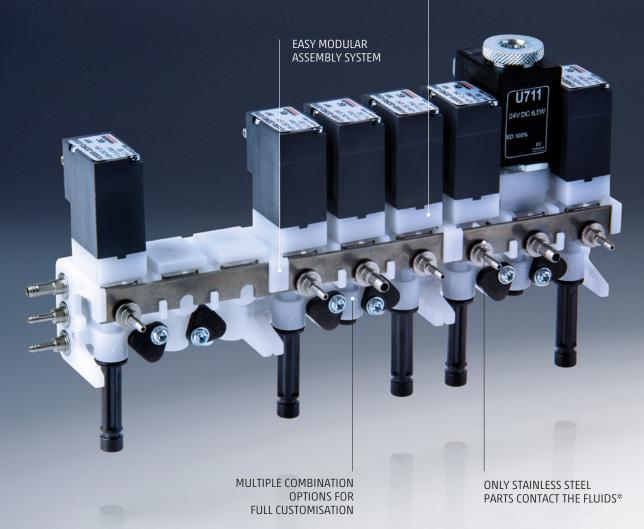


SERIES DB FLUID MULTICHANNEL MANIFOLD



SERIES DB MODULAR DESIGN ASSEMBLY

ACETAL RESIN USED FOR MANIFOLD AND VALVE BODY IS APPROVED BY THE WRAS/KTW AND FDA/NFS STANDARDS



The Series DB is a modular and compact solution, optimising pneumatic, hydraulic and electrical connections — reducing installation times on machines operating in the industrial and life sciences sectors.

The concept behind the manifold gives multiple modules maximum configuration versatility, combining miniature solenoid on-off valves and proportional control valves. Each single manifold can support several configurations and can easily be tailored to suit the operating requirements of varied applications.

For example, the manifold, due to its material specification, allows dispensing equipment to manage different gases (like carbon dioxide or nitrogen used for carbonation and preservation) and liquids, an advantage in food and beverage sector.

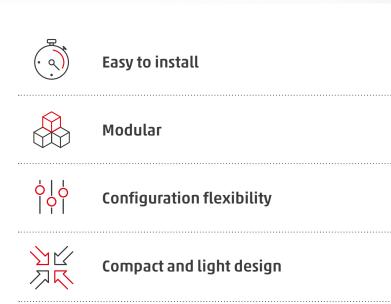
Configuration examples

Manifold configuration with only one 2/2 N.C. valve for gases or liquids Manifold configuration with three 2/2 N.C. valves for gases and liquids

Manifold configuration with one proportional valve for **gases** and two 2/2 N.C. valves for **gases and liquids**

U711

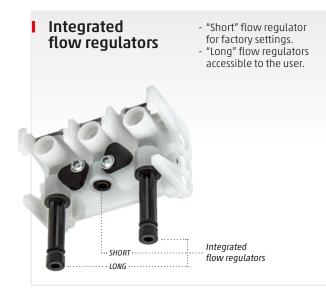




Designed to be flexible







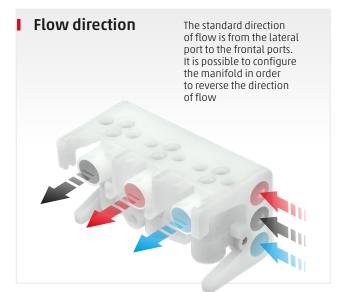


Fixing holes

Located on the bottom and on the front of the manifold







Accessories



- b. Hose barb fittings I.D. tubing Ø 1.6 3 4 mm
- c. Threaded M5 female fittings for input and output ports
- d. Plugs for input and output ports



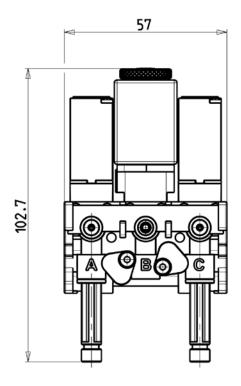
element allows the input ports of the manifold to turn through 90°

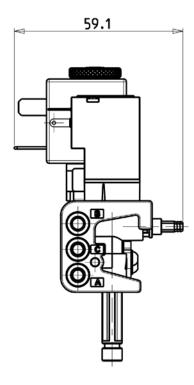
General data

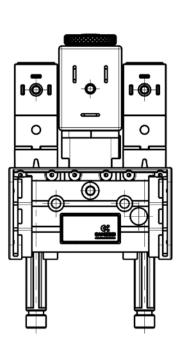
TECHNICAL FEATURES							
Valve function	2/2 N.C.	2/2 proportional	2/2 proportional				
Operation	direct acting poppet type						
Pneumatic connection	hose barb fittings for I.D. tubing Ø 1.6 - 3 - 4 mm / M5 threaded						
Valve orifice diameter	1.6 mm	1.6 mm	2.0 mm				
Flow coefficient kv (l/min)	0.6	0.9	1.1				
Nominal flow (air @ 6 bar free flow)	55 Nl/min	83 Nl/min	87 Nl/min				
Operating pressure	6 bar	6 bar	5 bar				
Operating temperature	0 ÷ 50 °C						
Media	filtered air class 5.4.4 according to ISO 8573-1, inert gas, potable water	filtered air class 5.4.4 according to ISO 8573-1, inert gas					
Installation	in any position						

MATERIAL IN CONTACT WITH THE MEDIUM									
Manifold and valve body	РОМ								
Seals	EPDM	FKM	FKM						
Internal valve parts	IXEF - stainless steel 303 - 430 brass - stainless steel 303 - 430								
Fittings	stainless steel 303								
ELECTRICAL FEATURES									
Voltage	24 Vdc - Other voltage on request								
Power consumption	2W	6.5W	6.5W						
Duty cycle	ED 100%								
Electrical connection	Micro Industrial Standard pitch 9.4 mm	EN 175 301-803-B pitch 11 mm	EN 175 301-803-B pitch 11 mm						

Dimensional characteristics







Coding example

DB	2	2	4	-	6	3	3	-	2	2	4		
DB	SERIES												
2	SECTION A - VALVE POSITION 0 = plug element 1 = bypass element 2 = valve 2/2 NC - Ø 1.6 mm - rear electrical contacts 3 = valve 2/2 NC - Ø 1.6 mm - front electrical contacts					7 = valv A = valv	6 = valve 2/2 PROPORTIONAL - Ø 1.6 mm - rear electrical contacts 7 = valve 2/2 PROPORTIONAL - Ø 1.6 mm - front electrical contacts A = valve 2/2 PROPORTIONAL - Ø 2.0 mm - rear electrical contacts B = valve 2/2 PROPORTIONAL - Ø 2.0 mm - front electrical contacts						
2	SECTION A - OUTPUT PORT POSITION 0 = none 1 = plug fitting 2 = hose barb fitting for tubing Ø 1.6 x 3.17 mm					4 = hos	3 = hose barb fitting for tubing Ø 3 x 5 mm 4 = hose barb fitting for tubing Ø 4 x 6 mm 5 = threaded M5 female fitting						
4	SECTION A - FLOW REGULATOR POSITION 0 = none 1 = plug and external flow regulator hose barb fittings 2 = plug					4 = lon 5 = thre	3 = short flow regulator 4 = long flow regulator 5 = threaded M5 female fitting 6 = threaded M5 female fitting and external flow regulator hose barb fittings						
-	SECTION A - FLOW DIRECTION POSITION - = standard (output on the front or bottom of the manifold)					R = reve	R = reverse mode (input on the front or bottom of the manifold)						
6	SECTION B - VALVE POSITION 0 = plug element 1 = bypass element 2 = valve 2/2 NC - Ø 1.6 mm - rear electrical contacts 3 = valve 2/2 NC - Ø 1.6 mm - front electrical contacts					7 = valv A = valv	6 = valve 2/2 PROPORTIONAL - Ø 1.6 mm - rear electrical contacts 7 = valve 2/2 PROPORTIONAL - Ø 1.6 mm - front electrical contacts A = valve 2/2 PROPORTIONAL - Ø 2.0 mm - rear electrical contacts B = valve 2/2 PROPORTIONAL - Ø 2.0 mm - front electrical contacts						
3	SECTION B - OUTPUT PORT POSITION 0 = none 1 = plug fitting 2 = hose barb fitting for tubing Ø 1.6 x 3.17 mm					4 = hos	3 = hose barb fitting for tubing Ø 3 x 5 mm 4 = hose barb fitting for tubing Ø 4 x 6 mm 5 = threaded M5 female fitting						
3	SECTION B - FLOW REGULATOR POSITION 0 = none 2 = plug					4 = lon	3 = short flow regulator 4 = long flow regulator 5 = threaded M5 female fitting						
-	SECTION B - FLOW DIRECTION POSITION - = standard (output on the front or bottom of the manifold)					R = reve	R = reverse mode (input on the front or bottom of the manifold)						
2	SECTION C - VALVE POSITION 0 = plug element 1 = bypass element 2 = valve 2/2 NC - Ø 1.6 mm - rear electrical contacts 3 = valve 2/2 NC - Ø 1.6 mm - front electrical contacts					6 = valve 2/2 PROPORTIONAL - Ø 1.6 mm - rear electrical contacts 7 = valve 2/2 PROPORTIONAL - Ø 1.6 mm - front electrical contacts A = valve 2/2 PROPORTIONAL - Ø 2.0 mm - rear electrical contacts B = valve 2/2 PROPORTIONAL - Ø 2.0 mm - front electrical contacts							
2	SECTION C - OUTPUT PORT POSITION 0 = none 1 = plug fitting 2 = hose barb fitting for tubing Ø 1.6 x 3.17 mm					3 = hose barb fitting for tubing Ø 3 x 5 mm 4 = hose barb fitting for tubing Ø 4 x 6 mm 5 = threaded M5 female fitting							
4	SECTION C - FLOW REGULATOR POSITION 0 = none 1 = plug and external flow regulator hose barb fittings 2 = plug						3 = short flow regulator 4 = long flow regulator 5 = threaded M5 female fitting 6 = threaded M5 female fitting and external flow regulator hose barb fittings						
		SECTION C - FLOW DIRECTION POSITION - = standard (output on the front or bottom of the manifold) R = reverse mode (input on the front or bottom of the manifold)											
	POWER SUPPLY = 24 VDC						2 = 12 VDC						

Coding example accessories

D	B	AT	-	2	2	3			
DB	SERIES								
AT	ACCESSORIESAT = terminal fittings (supplied with 1 fixing plate and 3 0-rings)AL = angled element (supplied with 3 joint fittings, 2 fixing plates and 6 0-rings)AJ = joint fittings (supplied with 2 fixing plates and 6 0-rings)2 fixing plates and 6 0-rings)								
2		iitting barb fitting for tubing Ø 1.0 barb fitting for tubing Ø 3 >		5 = threaded M A = joint fitting	4 = hose barb fitting for tubing Ø 4 x 6 mm 5 = threaded M5 female fitting A = joint fitting C = blind joint fitting				
2				5 = threaded M A = joint fitting	4 = hose barb fitting for tubing Ø 4 x 6 mm 5 = threaded M5 female fitting A = joint fitting C = blind joint fitting				
3	FITTING 34 = hose barb fitting for tubing Ø 4 x 6 mm1 = plug fitting5 = threaded M5 female fitting2 = hose barb fitting for tubing Ø 1.6 x 3.17 mmA = joint fitting3 = hose barb fitting for tubing Ø 3 x 5 mmC = blind joint fitting								

Note only for the accessories: Please indicate after the dash, the numbers or letters in ascending order during the composition of the code. (i.e. DBAT-135).

Contacts

Camozzi Automation S.p.A. Società Unipersonale Via Eritrea, 20/I 25126 Brescia Italy Tel. +39 030 37921 info@camozzi.com

Customer Service Tel. +39 030 3792790 service@camozzi.com

Export Department Tel. +39 030 3792262 sales@camozzi.com

