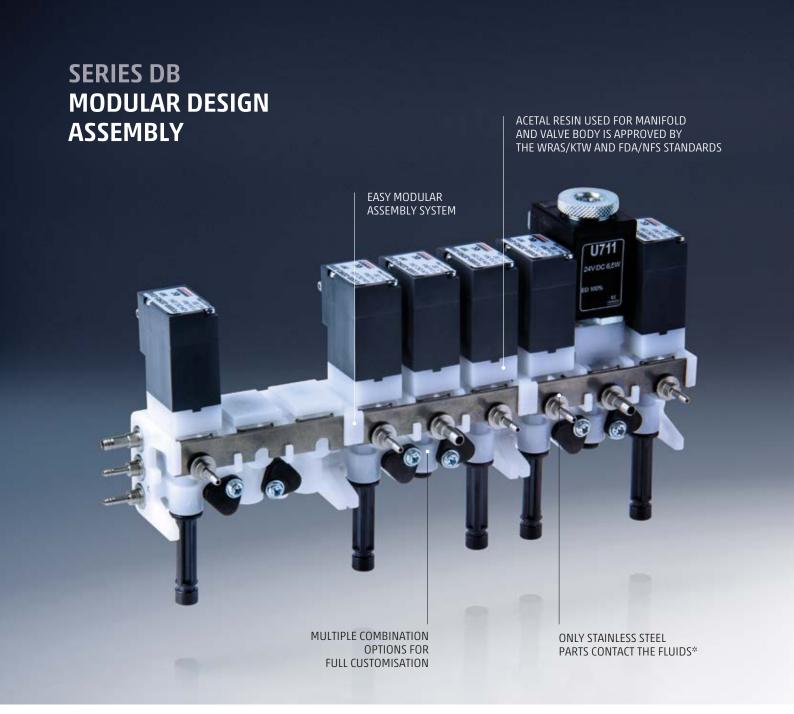


SERIES DB FLUID MULTICHANNEL MANIFOLD





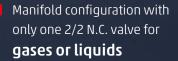
The Series DB is a modular and compact solution, optimising pneumatic, hydraulic and electrical connections — reducing installation times on machines operating in the industrial and life sciences sectors.

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 the food and beverage sector.

Configuration examples



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**







BENEFITS



Easy to install



Modular



Configuration flexibility

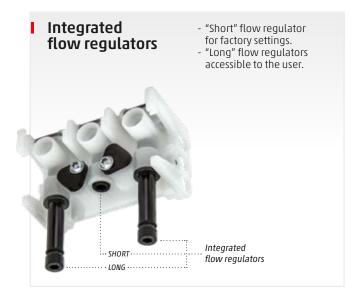


Compact and light design

Designed to be flexible

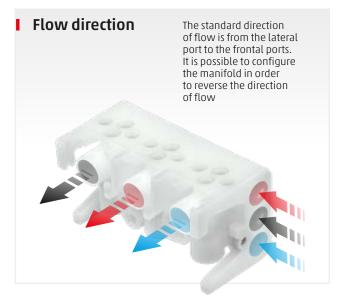












Accessories





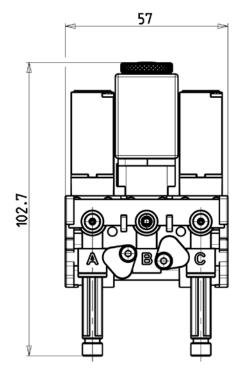
General data

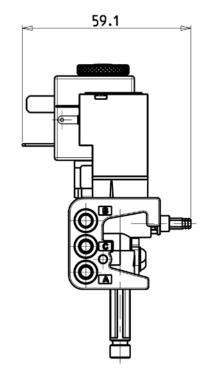
TECHNICAL FEATURES					
Valve function	2/2 N.C.	2/2 proportional	2/2 proportional		
Operation	direct acting poppet type				
Pneumatic connection	hose barb fittings for I.D. tubing Ø 1.6 - 3 - 4 mm / M5 threaded				
Valve orifice diameter	1.6 mm		2.0 mm		
Flow coefficient kv (l/min)	0.6	0.9	1.1 87 NI/min		
Nominal flow (air @ 6 bar free flow)	55 Nl/min	83 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 ISI	0 8573-1, inert gas		
Installation	stallation in any position				

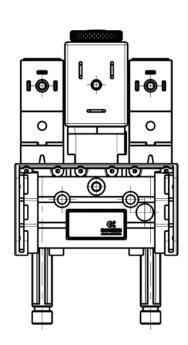
MATERIAL IN CONTACT WITH THE MEDIUM					
Manifold and valve body	POM				
Seals	EPDM	FKM	FKM		
Internal valve parts	IXEF - stainless steel 303 - 430	brass - stainless steel 303 - 430			
Fittings	stainless steel 303				

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		
										1			1

DP	SERIES	
DB		
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	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	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	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 = 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	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	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	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 = 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

DB AT - 2 2 3

DB	SERIES	
AT	ACCESSORIES AT = terminal fittings (supplied with 1 fixing plate and 3 O-rings) AJ = joint fittings (supplied with 2 fixing plates and 6 O-rings)	AL = angled element (supplied with 3 joint fittings, 2 fixing plates and 6 O-rings)
2	FITTING 1 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 A = joint fitting C = blind joint fitting
2	FITTING 2 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 A = joint fitting C = blind joint fitting
3	FITTING 3 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 A = joint fitting C = blind joint fitting

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

