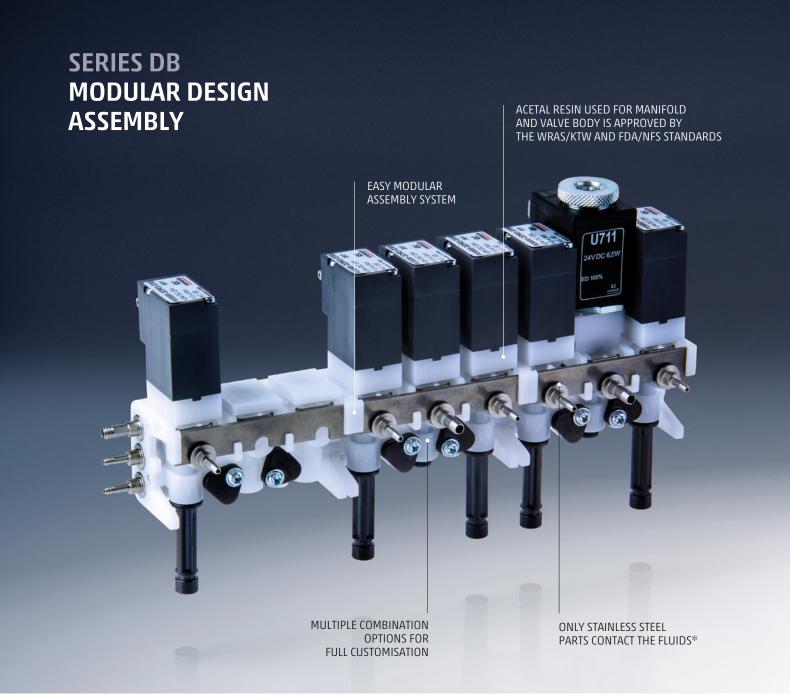


# SERIES DB DENTAL MULTICHANNEL MANIFOLD



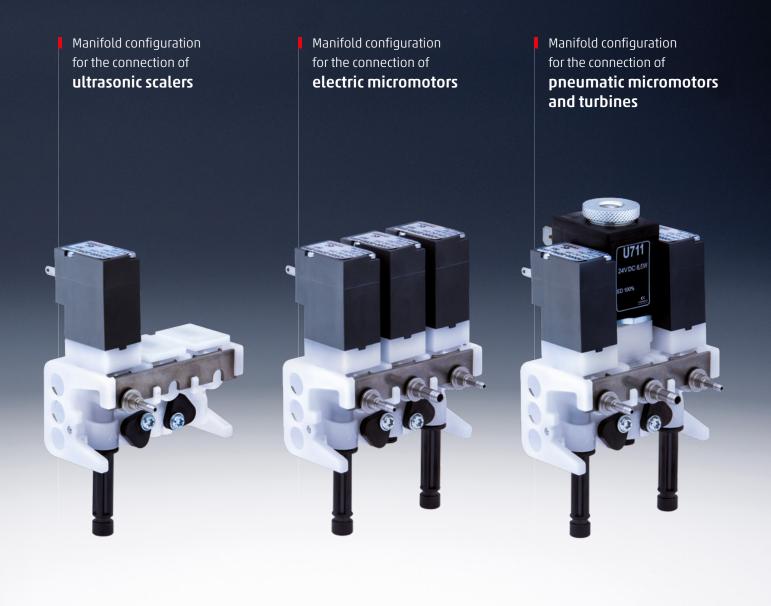


The Series DB is a modular and compact solution, optimising pneumatic, hydraulic and electrical connections — reducing installation times on machines operating in the industrial and life sciences sectors.

The concept behind the manifold gives multiple modules maximum configuration versatility, combining miniature solenoid on-off valves and proportional control valves.

Each single manifold is configurable in several ways to match the operating requirements of each handpiece installed on the dental units.

For example, with the proper configuration, it is possible to optimise the connections of the air and water tubing used for the operation with turbines, micromotors, scalers and syringes.



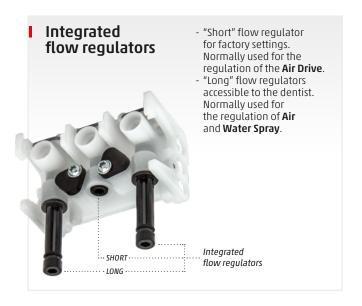
#### **BENEFITS**



## Designed to be flexible

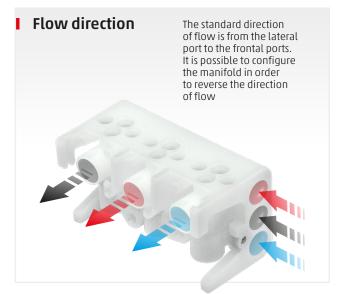












#### **Accessories**





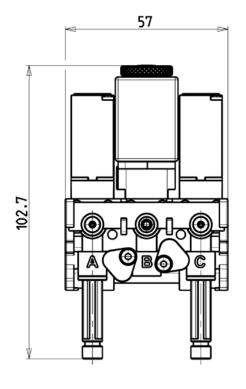
#### General data

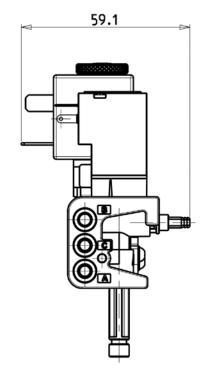
TECHNICAL FEATURES			
Valve function	2/2 N.C.	2/2 proportional	2/2 proportional
Operation	direct acting poppet type		
Pneumatic connection	hose barb fittings for I.D. tubing Øi 1.6 - 3 - 4 mm / M5 threaded		
Valve orifice diameter	1.6 mm	1.6 mm	2.0 mm
Flow coefficient kv (l/min)	0.6	0.9	1.1
Nominal flow (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 IS	0 8573-1, inert gas
Installation	in any position		

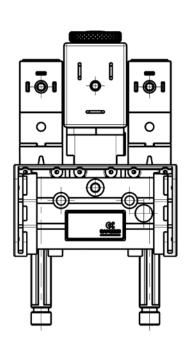
MATERIAL IN CONTACT WITH THE MEDIUM				
Manifold and valve body	POM			
Seals	EPDM	FKM	FKM	
Valve internal parts	IXEF - stainless steel 303 - 430	brass - stainless steel	303 - 430	
Fittings	stainless steel 303			
ELECTRICAL FEATURES				
W. H	3/1/4- 01511			

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	
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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 0-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

