2/2-way direct acting dialysis valve, NC medium separation by PTFE bellow

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A. u. K. Müller

Solenoid valves Control valves Special valves and systems

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Series U9x.60x



Applications

- Haemodialysis machines
- Medical engineering
- Water treatment
- Disinfection equipment

Characteristics

- Special valve for haemodialysis machines
- Medium separated by PTFE bellow
- Function and leak tightness in both flow directions
- Plunger guided by PTFE
- High flow rate
- Various fixing options
- Suitable for pressure and vacuum operation
- Short cycle times
- High number of ON-OFF cycles
- Minimal dead areas in valve body
- Easy chemical disinfection
- Materials with worldwide approvals
- High operating safety by use of high quality materials
- Low power consumption
- CE Marking
- UL and CSA certification on request

Description

This valve series has been specially developed for use in haemodialysis machines and other medical devices. The design recognizes the specific requirements of this market.

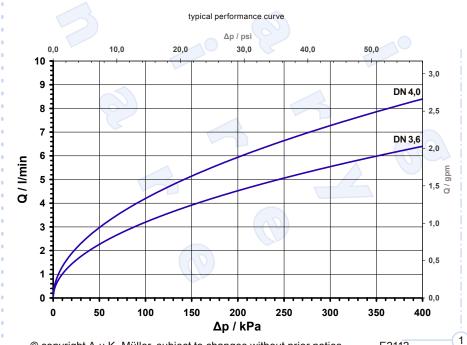
Used as an inlet or outlet valve for the balance chamber of a dialysis machine, the valve will work in both flow directions across the complete pressure range.

A variety of standard bodies are available to connect to the customer's balance chamber but customised versions can be produced.

The use of high quality plastics and sealing elements made of EPDM or FKM ensure durability even with aggressive media such as dialysate, cleaning agents and disinfectants.

The PTFE Bellows ensure a longer lifetime than a rubber membrane as it is less likely to become brittle.

All materials meet EU, RoHS and REACH regulations.



2/2-way direct acting dialysis valve, NC Medium de séparation par soufflet en PTFE



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Series U9x.60x III VII

Ted	hnical	Data			
Туре	Solenoid valve for dialysis machines				
Construction	2/2-way single chamber straight valve, direct acting				
Function	NC (normall	y closed) y open) on request			
Fitting position	any				
Media		I solutions in the on for each application			
T-Medium	90	°C max.			
T-Ambient	70 (60	°C max. °C max. on coils MS.024, MS.025)			
DN	3,6 4,0	mm mm			
p-Operating	10 - 400	ΔkPa (abs) both flow directions			
Cv-value DN 3,6 DN 4,0	3,2 l/min 4,2 l/min				
Coil type	MS.006, MS	3.024, MS.025			
Nominal voltages	24	VDC			
	other voltage	es on request			
Voltage tolerance	±10%				
Duty cycle	100%				
Nominal power	9,5 W				
Protection Type	IP 00, IP 65 according to	EN 60529			
Coil connections	flat tabs 6,3 x 0,8 mm plug socket according to EN 175301-803 (IP65), several cable connections (IP65)				
Insulation class	F	according to EN 60730			
Protection class	III	according to EN 60730 (for incorporation in class I)			

Materials						
Valve body	PEI PPSU on request PEEK on request					
Plunger guide	PTFE					
Plunger and spring	stainless steel					
Bellow	PTFE					
Seal	EPDM FKM on request					
Coil coating	PBT, PET or epoxy resin					

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VIII	

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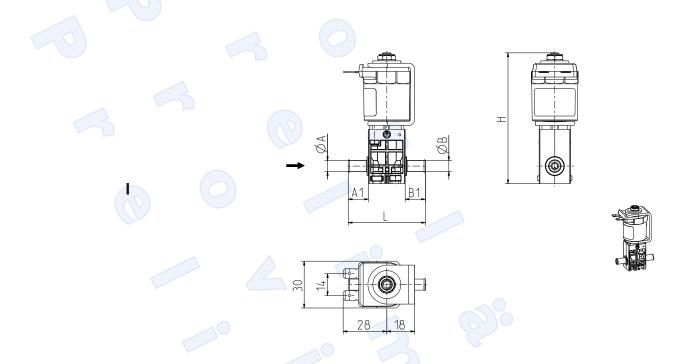
90.60x	MS.024 (IP65)	
92.60x	MS.006 (IP00)	
93.60x	MS.025 (IP65)	

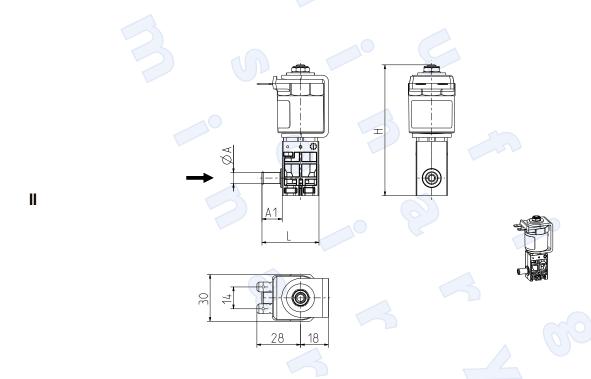
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Options								
Variant						Length	Height	
	DN	øΑ	A1	øB	B1	L	Н	
1	3,6	7,1 Nozzle	13,0	7,1 Nozzle	13,0	49.5	84,0	
II	3,6	7,1 Nozzle	13,0	-	-	37,0	84,0	

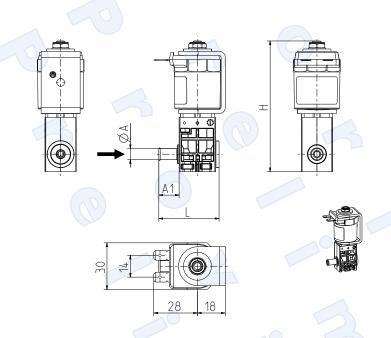
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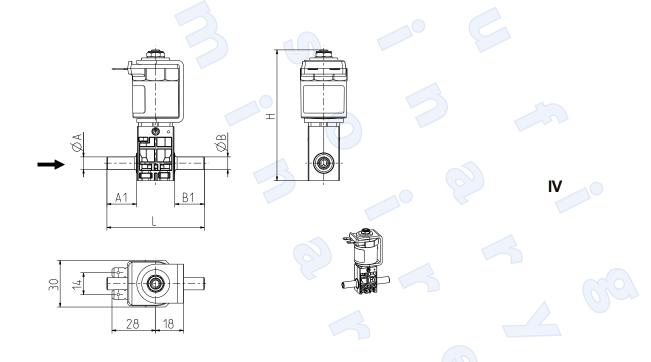


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Options								
Variant						Length	Height	
	DN	øΑ	A1	øΒ	B1	L	Н	
III	3,6	7,1 Nozzle	13,0	-	-	39,0	84,0	
IV	3,6	8,0 Nozzle JG	19,0	8,0 Nozzle JG	19,0	62,5	84,0	

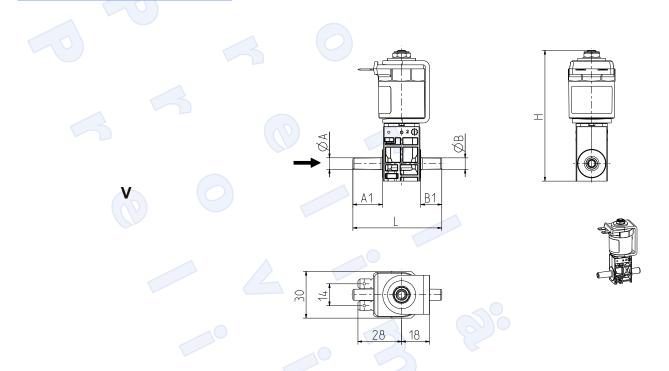
JG = John Guest connection

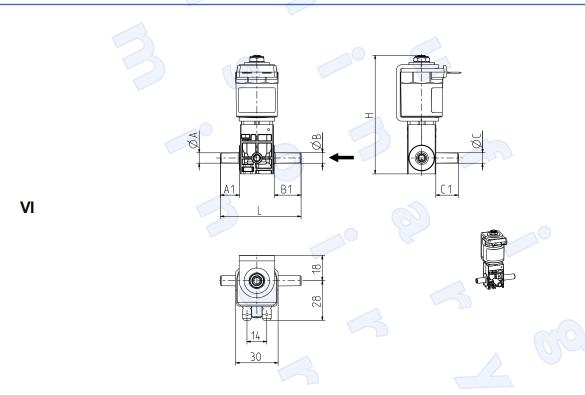
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Options									
Variant								Length	Height
	DN	øΑ	A1	øB	B1	øС	C1	L	Н
V	3,6	7,3 Nozzle	19,0	7,3 Nozzle	13,5	-	-	57,0	84,0
VI	3,6	7,3 Nozzle	13,5	7,3 Nozzle	19,0	7,5 Nozzle	16,0	57,0	84,0

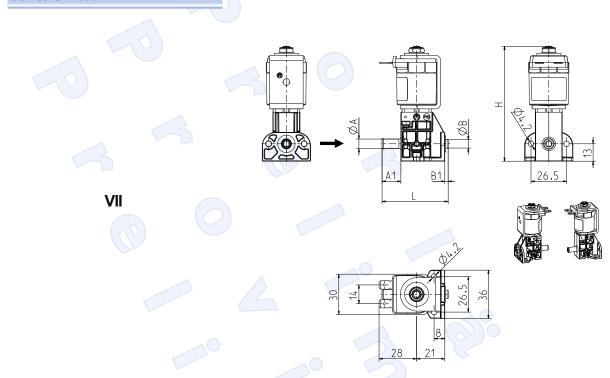
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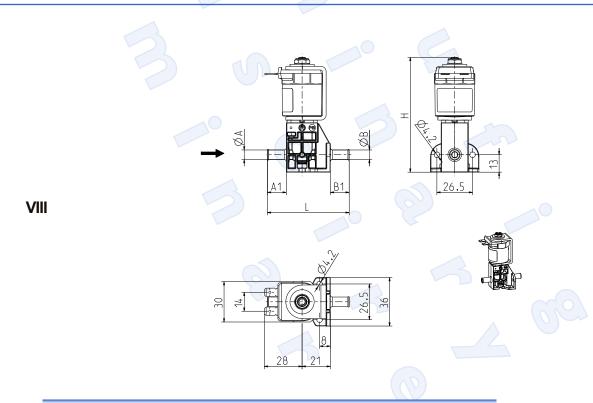
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Options									
Variant						Length	Height		
	DN	øΑ	A1	øΒ	B1	L	Н		
VII	4,0	7,1 Nozzle	14,0	6,3	2,5	49,0	85,0		
VIII	4,0	7,1 Nozzle	14,0	7,1 Nozzle	14,0	61,0	85,0		