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Find the *Burkert 0121* at our website: ***Click HERE***

bürkert
FLUID CONTROL SYSTEMS



2/2 and 3/2-way Solenoid Valve for aggressive fluids

- Pivoted armature valve with manual override
- Direct-acting with hermetic isolation of fluid
- Different circuit functions
- Body in plastic and stainless steel
- Seal materials suitable for aggressive mediums

Type 0121 can be combined with…

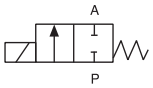


Type 2508
Cable plug

Type 1078
Timer unit

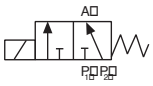
Type 0121 is a high quality, direct-acting 2/2 or 3/2 pivoted armature solenoid valve that can be used in a wide range of applications for opening, closing, dosing, mixing and distributing. The separation between the magnetic system and the medium chamber consists of an intermediate separating diaphragm system. The valve is particularly suitable for aggressive media

Circuit function A



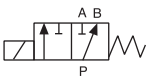
A 2/2-way valve NC

Circuit function E



3/2-way mixer valve

Circuit function F



3/2-way distributor valve

Technical data	
Orifice	DN2.0 to 8.0
Body material	PTFE, (PP, PVDF on request) PVC (resistant acc. to DIN 8062, 8061) Stainless steel 1.4401
Seal materials medium FKM FFKM	FKM, FFKM, (EPDM on request) Oxydizing acids and substances, oils, salt solutions, waste gases, technical vacuum The valve is particularly suitable for aggressive media, aromatic compound, ether, ester, ketone (please see Bürkert chemical resistance chart)
Medium temperature body + seal (Material combination) PVC + FKM PTFE/St. st. + FKM PTFE/St. st. + FFKM	 -10 to +50 °C -10 to +90 °C -10 to +90 °C
Ambient temperature	max. +50 °C
Viscosity	max. 37 mm²/s
Voltage tolerance	±10%
Cycling rate	max. 100/min with AC max. 10/min with UC
Duty cycle **Continuous operation** Intermittent operation	 St. st. body 100% ED and with universal Current (UC) with PVC 10% ED (10 min) with PP, PTFE and PVDF body (40% ED, 10 min)
Electrical connection with AC and DC	 Cable plug for cable Ø 6 - 7 mm (supplied as standard) or cable connection
Protection class	IP 65 with cable or cable plug
Installation	As required, preferably with actuator upright

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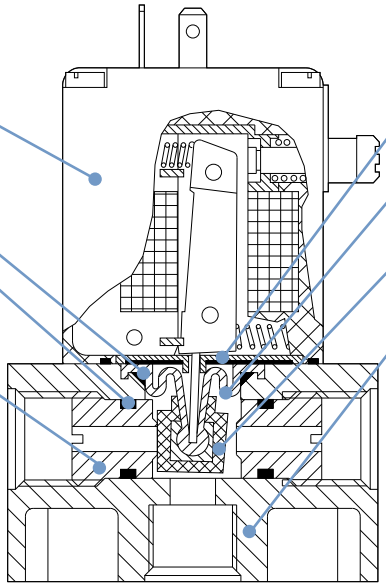
Technical data, continued

Power consumption						Response times		Weight	
Inrush		[VA]				Open	Closed	PTFE	Stainless steel
AC [VA]	UC [W]	AC [VA/W]	UC [W]	DC cold [W]	DC [W]	[ms]	[ms]	[kg]	[kg]
30	40	15/8	3	11-12	8	15-20	15-20	0.5	0.9

Response times [ms]:
Measured at valve outlet at 6 bar and +20°C.
Opening: Pressure build-up 0 - 90%
Closing: pressure relief 100 to 10%

Materials

8. Coil body: Epoxy
6. Seal: PTFE
5. O-rings: FKM, EPDM
4. Seat: see table on the right



7. Isolating diaphragm: FKM, EPDM, FFKM
3. Toggle pin: Hostaflon TF 1502
2. Seal: FFKM FKM
1. Valve body: see table below (PVDF, PP on request)

(Sectional drawing of version with PVC body and FKM seal)

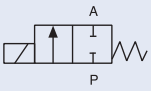
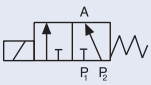
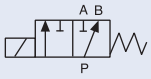
Body material	Seat material
Stainless steel	1.4571
PTFE	PTFE
PVC	PVC

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Ordering chart for valves **(other versions on request)**

valves with plastic or stainless steel body, manual override and cable plug (UC with silicon cable, see footnote)

Circuit function	Port connection	Orifice [mm]	Kv value water [m3/h]	Pressure range [bar]	Body material	Seal material	Voltage/ frequency [V/Hz]	Item no.
A 2/2-way valve NC 	**Stainless steel body**							
	G 1/4	4.0	0.3	0-2	St. st.	FKM	024/DC	055 244
				0-4	St. st.	FKM	024/50	056 934
							042/50	052 817
							230/50	052 441
		6.0	0.6	0-1	St. st.	FKM	024/DC	040 482
				0-2	St. st.	FKM	024/50	057 086
							110/50	067 659
							230/50	054 595
	Plastic body PVC							
	G 3/8	4.0	0.3	0 - 2	PVC	FKM	024/DC	049 654
				0 - 4	PVC	FKM	024/50	048 940
							230/50	047 859
	G 3/8	6.0	0.6	0 - 1	PVC	FKM	024/DC	048 749
				0 - 2	PVC	FKM	024/50	049 348
							110/50	050 553
							230/50	047 810
	G 3/8	8.0	1.0	0 - 1	PVC	FKM	024/UC	048 697
							024/50	052 800
							230/50	052 302
E 3/2-way mixer valve 	**Stainless steel body**							
	G 1/4	4.0	0.3	0-2	St. st.	FKM	230/50	042 457
	Plastic body PTFE							
	G 3/8	4.0	0.3	0 - 2	PTFE	FFKM	024/UC	130 933
							230/50	130 934
F 3/2-way distributor valve 	**Plastic body PVC**							
	G 3/8	6.0	0.6	0 - 1	PVC	FKM	024/DC	049 533
				0 - 2	PVC	FKM	024/50	052 181
							110/50	050 336
							230/50	047 916

Note: UC with internal high-performance coil (60 W Inrush, 3 W hold) and moulded-in 1m silicon cable

Further versions on request

Materials
Body material PP, PVDF.
Seal materials EPDM, various body and seal material combinations.

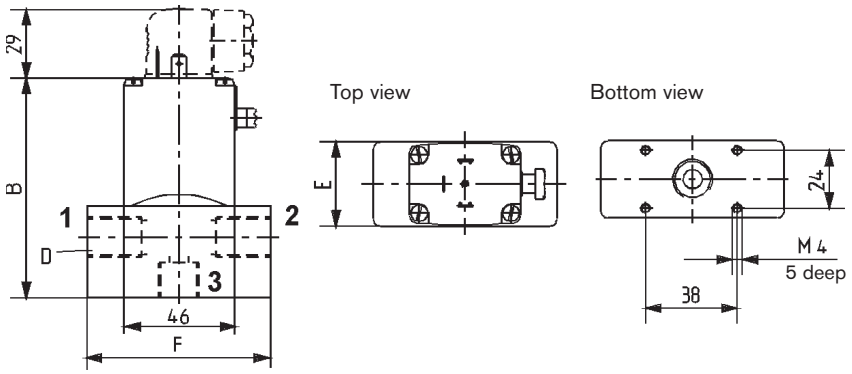
Circuit function
Other circuit functions, e.g. 2/2-way normally open.

Additional
ATEX Version (see Type 789).
Optical or electrical feedback unit.

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Dimensions [mm]



Body material	D	B	E	F
Stainless steel	G 1/4	89	32	76
PVC	G 3/8	91	35	65
Possible port configurations				
Circuit function	1	2	3	
A	P	–	A	
E	P1	P2	A	
F	A	B	P	

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In case of special application conditions, please consult for advice.

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