burkert
FLUID CONTROL SYSTEMS

2/2- or 3/2-way-
Rocker Solenoid Valve

Type 6128 can be combined with...

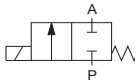
Type 2507
Cable Plug

Note
This Type will be replaced by 6628 in 2013

- Direct acting
- Hermetic isolation of fluid
- Vacuum to 10 bar[1)]
- Orifice 2 or 3 mm
- Manual override as standard
- Sub-base and threaded port version
- 22 mm width per station

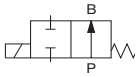
The 6128 analytical solenoid valve combines all state of the art features in a compact design. With high reliability, virtually no heat transfer between fluid and coil, low internal volume and Burkert's expertise in supplying customized solutions, these valves are a perfect fit even for the most demanding applications.

Circuit function A



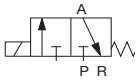
2/2-way valve, direct acting, normally closed

Circuit function B



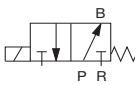
2/2-way valve, direct acting, normally open

Circuit function C



3/2-way valve, direct acting, when de-energised Port A exhausted

Circuit function D



3/2-way valve, direct acting, when de-energised Port B pressurised

Technical data	
Body material G, NPT connection subbase connection	 PEEK and PPS PPS
Seal material	EPDM or FKM
Medium	Resistant to neutral and slightly aggressive fluids (see chemical resistance chart); technical vacuum
Medium temperature	0 °C ... +70 °C
Ambient temperature	0 °C ... +60 °C
Viscosity	max. 21 mm²/s
Port connection	Sub-base G 1/8 NPT 1/8 on request
Operating voltages	24 V DC, 230 V / 50 Hz Other voltages on request
Voltage tolerance	± 10%
Power consumption	5 W
Duty cycle	100 % continuous rating
Electrical connection	▪ Acc. to Form B industrial standard for cable plug Type 2507 ▪ Rectangular plug ▪ 500mm leads on request
Manual override	Standard
Installation	As required, preferably with actuator upright
Protection class	IP40

[1)] Pressure values [bar]: Measured as overpressure to the atmospheric pressure

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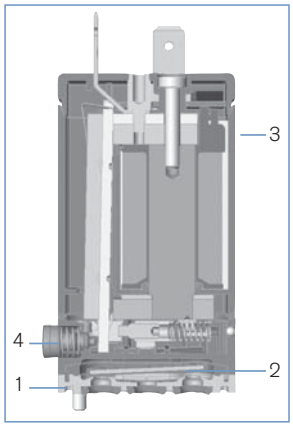
Response times

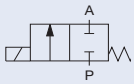
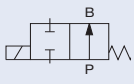
Circuit function	Orifice DN [mm]	Kv value water [m³/h]	QNn-value air [l/min]	Pressure range [bar]	Response times opening [ms]	Response times closing [ms]	Max. pressure difference [bar]
A	2	0,1	104	Vacu-10	18	8	10
	3	0,13	136	Vacu-3	18	8	3
B	2	0,1	104	Vacu-10	18	8	10
	3	0,13	136	Vacu-3	18	8	3
C	2	0,1	104	Vacu-10	18	8	10
	3	0,13	136	Vacu-3	18	8	3
D	2	0,1	104w	Vacu-10	18	8	10
	3	0,13	136	Vacu-3	18	8	3

- Kv value [m³/h]: Flow rate for water,
  Measured at +20 °C, 1 bar[1)] pressure difference
- Response times [ms]:
  Measured at valve outlet at 3 bar[1)] and +20°C according to ISO 12238.
  Opening Pressure rise from 0…10%
  Closing Pressure drop from 100…90%



1. Valve body, PEEK / PPS
2. Diaphragm, EPDM or FKM
3. Coil body, PA
4. Manual override, PA

Ordering chart

Circuit function	Orifice DN [mm]	Body material	Seal material	Voltage/ frequency [V/ Hz]	Port connection	Electrical connection	Item no.
A 	2.0	PPS	FKM	24 V/DC	Sub-base	Rectangular plug	160 758
						Tag connector Form B	160 759
		PEEK/ PPS			G 1/8	Rectangular plug	160 760
						Tag connector Form B	160 761
				230 V/50 Hz	G 1/8	Tag connector Form B	160 762
		PPS	EPDM	24 V/DC	Sub-base	Rectangular plug	160 763
						Tag connector Form B	160 764
		PEEK/ PPS			G 1/8	Rectangular plug	160 765
						Tag connector Form B	160 766
				230 V/50 Hz	G 1/8	Tag connector Form B	160 767
	3.0	PPS	FKM	24 V/DC	Sub-base	Rectangular plug	160 768
						Tag connector Form B	160 769
		PEEK/ PPS			G 1/8	Rectangular plug	160 770
						Tag connector Form B	160 771
				230 V/50 Hz	G 1/8	Tag connector Form B	160 772
		PPS	EPDM	24 V/DC	Sub-base	Rectangular plug	155 561
						Tag connector Form B	160 773
		PEEK/ PPS			G 1/8	Rectangular plug	181 398
						Tag connector Form B	160 775
				230 V/50 Hz	G 1/8	Tag connector Form B	160 776
B 	2.0	PPS	FKM	24 V/DC	Sub-base	Rectangular plug	160 777
						Tag connector Form B	160 778
		PEEK/ PPS			G 1/8	Rectangular plug	160 779
						Tag connector Form B	160 780
				230 V/50 Hz	G 1/8	Tag connector Form B	160 781

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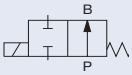
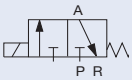
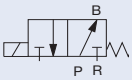
Ordering chart (continued)

Circuit function	Orifice DN [mm]	Body material	Seal Material	Voltage/ frequency [V/Hz]	Port Connection	Electrical connection	Item no.
B 	2.0	PPS	EPDM	24 V/DC	Sub-base	Rectangular plug	160 782
						Tag connector Form B	160 783
		PEEK/ PPS			G 1/8	Rectangular plug	160 784
						Tag connector Form B	160 785
				230 V/50 Hz	G 1/8	Tag connector Form B	160 786
	3.0	PPS	FKM	24 V/DC	Sub-base	Rectangular plug	160 787
						Tag connector Form B	160 788
		PEEK/ PPS			G 1/8	Rectangular plug	160 789
						Tag connector Form B	160 790
				230 V/50 Hz	G 1/8	Tag connector Form B	160 791
		PPS	EPDM	24 V/DC	Sub-base	Rectangular plug	160 792
						Tag connector Form B	160 793
		PEEK/ PPS			G 1/8	Rectangular plug	160 794
						Tag connector Form B	160 795
				230 V/50 Hz	G 1/8	Tag connector Form B	160 796
C 	2.0	PPS	FKM	24 V/DC	Sub-base	Rectangular plug	160 797
						Tag connector Form B	150 790
		PEEK/ PPS			G 1/8	Rectangular plug	160 798
						Tag connector Form B	160 799
				230 V/50 Hz	G 1/8	Tag connector Form B	160 800
		PPS	EPDM	24 V/DC	Sub-base	Rectangular plug	160 801
						Tag connector Form B	150 791
		PEEK/ PPS			G 1/8	Rectangular plug	160 802
						Tag connector Form B	160 803
				230 V/50 Hz	G 1/8	Tag connector Form B	160 804
	3.0	PPS	FKM	24 V/DC	Sub-base	Rectangular plug	160 805
						Tag connector Form B	150 792
		PEEK/ PPS			G 1/8	Rectangular plug	160 806
						Tag connector Form B	160 807
				230 V/50 Hz	G 1/8	Tag connector Form B	160 808
		PPS	EPDM	24 V/DC	Sub-base	Rectangular plug	160 809
						Tag connector Form B	150 793
		PEEK/ PPS			G 1/8	Rectangular plug	160 810
						Tag connector Form B	160 811
				230 V/50 Hz	G 1/8	Tag connector Form B	160 812
D 	2.0	PPS	FKM	24 V/DC	Sub-base	Rectangular plug	160 813
						Tag connector Form B	150 080
		PEEK/ PPS			G 1/8	Rectangular plug	160 814
						Tag connector Form B	160 815
				230 V/50 Hz	G 1/8	Tag connector Form B	160 816
		PPS	EPDM	24 V/DC	Sub-base	Rectangular plug	160 817
						Tag connector Form B	150 794
		PEEK/ PPS			G 1/8	Rectangular plug	160 818
						Tag connector Form B	160 819
				230 V/50 Hz	G 1/8	Tag connector Form B	160 820
	3.0	PPS	FKM	24 V/DC	Sub-base	Rectangular plug	160 821
						Tag connector Form B	150 795
		PEEK/ PPS			G 1/8	Rectangular plug	160 822
						Tag connector Form B	160 823
				230 V/50 Hz	G 1/8	Tag connector Form B	160 824
		PPS	EPDM	24 V/DC	Sub-base	Rectangular plug	160 825
						Tag connector Form B	150 796
		PEEK/ PPS			G 1/8	Rectangular plug	160 826
						Tag connector Form B	160 827
				230 V/50 Hz	G 1/8	Tag connector Form B	160 828

- Rectangular plug supplied **without** cable plug (see ordering chart for accessories).
- Manual override as standard.
- Other versions on request.

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Ordering chart for manifold

Multiple Manifolds with individual service port (G1/8) and diverter function on 2 common channels (G1/8); Delivery without valves; Material: anodized aluminium

Manifold	A [mm]	Item no.
2-fold	47	669 571
3-fold	69	672 633
4-fold	91	669 572
5-fold	113	672 661
6-fold	135	669 570
10-fold	223	672 660

▪ Other versions on request.

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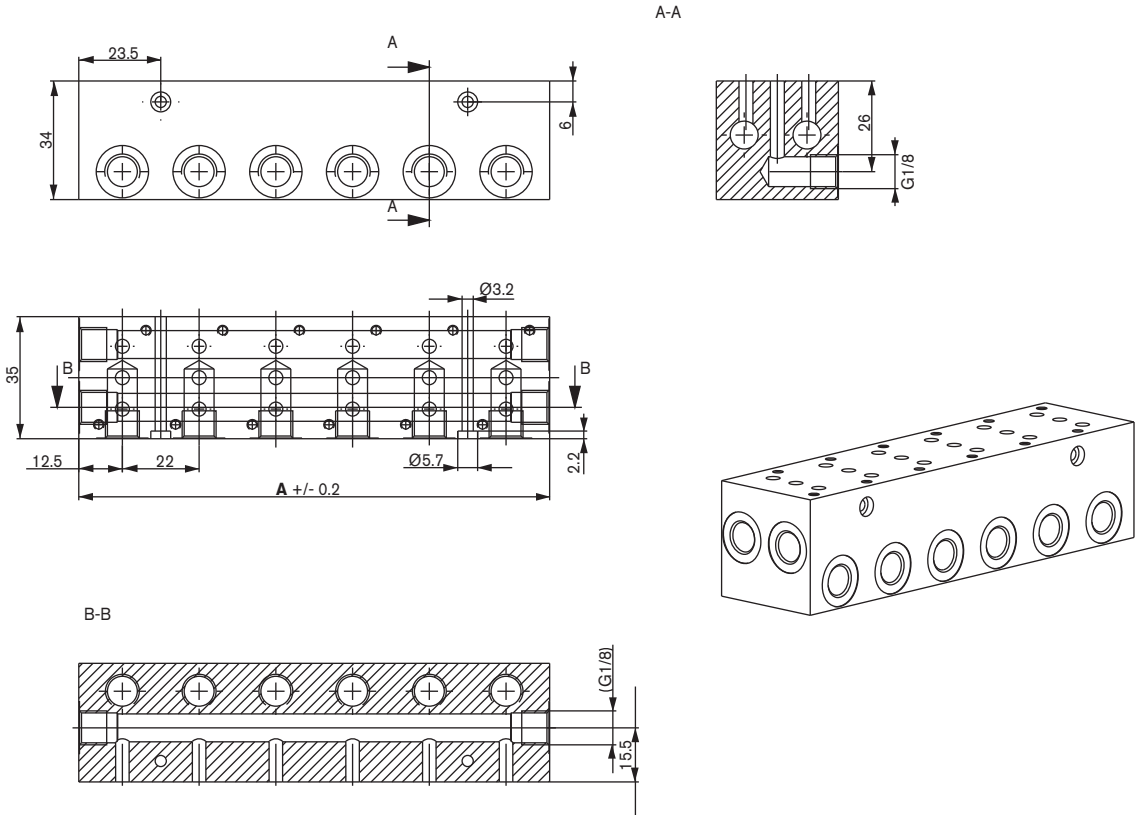
Manifold



Ordering chart for accessories

Cable Plug Type 2507 according to Industrial standard Form B

	Accessories	Version	Voltage	Item no.
	Cable Plug Type 2507	without Circuitry	0 ... 250 V AC/DC	423 845
		with LED	24 V AC/DC	423 849

Rectangular plug Type 2505

	Accessories	Item no.
	with 3m cable	133 486
	with 300mm leads	644 068
	Single contact for individual mounting	644 067

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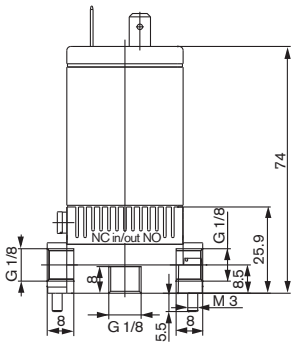
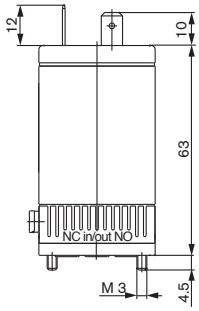
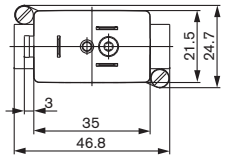
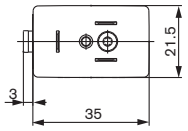
Dimensions [mm]

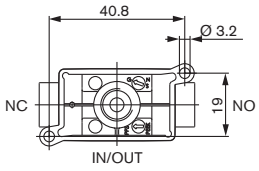
Valves with tag connector Form B - Industrial standard
(The middle connection is not applicable in the case of the 2/2-way version)

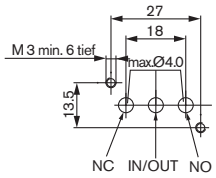












Threaded port body G1/8 manifold mounting (2xM3 screws)

Flange interface for manifold mounting (2xM3 screws)

Valves with rectangular plug