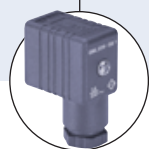


2/2- and 3/2-Way Rocker Solenoid Valve



Type 6128 can be combined with...

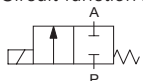


Type 2507

Plug connection

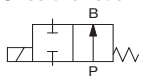
The 6128 analytical solenoid valve combines all state of the art features in a compact design. With high reliability, virtually no heat transfer between fluid and coil, low internal volume and Burkert's expertise in supplying customized solutions, these valves are a perfect fit even for the most demanding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

Circuit function A



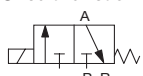
2/2-way valve,
direct acting,
normally closed

Circuit function B



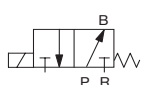
2/2-way valve,
direct acting,
normally open

Circuit function C



3/2-way valve,
direct acting,
when deenergized,
port A exhausted

Circuit function D



3/2-way valve,
direct acting,
when deenergized,
port B pressurized

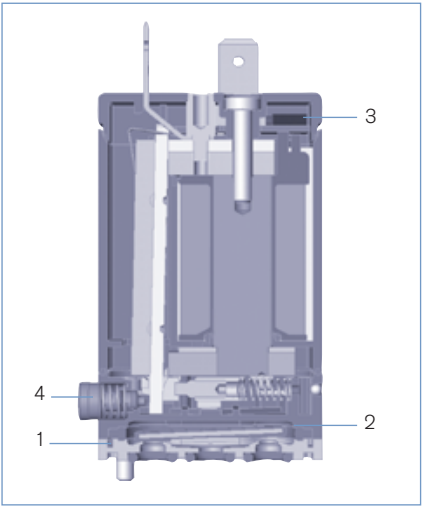
- Direct acting
- Hermetic isolation of fluid from the actuator
- 0 – 145 PSI (0 – 10 bar)
- Orifice 5/64" to 1/8" (2 or 3 mm)
- Manual override as standard

Technical data	
Body material	PPS
Seal material	EPDM or FKM
Fluids	resistant to neutral and slightly aggressive gases and liquids according our chemical resistance chart; technical vacuum
Fluid temperature	32°F up to 158°F (0°C up to +70°C)
Ambient temperature	21°F up to 140°F (0°C up to +60°C)
Max. Viscosity	approx. 21 mm ² /s
Port connection	NPT 1/8 thread Sub-base G 1/8 thread
Nominal voltage	24 VDC, 12 VDC / 50, 120–240/60 Hz other voltages on request
Voltage tolerance	± 10%
Power consumption	5 W
Duty cycle	100% continuously rated
Electrical connection	Rectangular plug Cable plug type 2507 to DIN 43 650, Form B leads 500 mm (on request)
Manual override	standard
Installation	any, preferred with coil upward
Protection class	IP40, IP65 (on request)

Response times

Orifice DN [mm]	C _v -value water [GPM]	Q _{Nn} -value air [SCFM]	Pressure range [PSI] ¹⁾	Response times	
				Opening [ms]	Closing [ms]
2.0	0.11	3.6	Vac-145	18	8
3.0	0.18	6.0	Vac-43	18	8

- Flow rate C_v-value water [GPM]:
Measured at 68°F (+20°C), 14.5 PSI (1 bar) pressure to atmosphere
- Response times [ms]:
Measured at valve outlet at 43 PSI (3 bar) and 68°F (+20°C) according to ISO 12238.
Opening: Pressure rise from 0 – 10%
Closing: Pressure drop from 100 – 90%

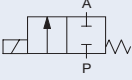
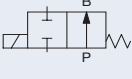


- 1) Valve body
– PPS
- 2) Diaphragm
– EPDM or FKM
- 3) Coil body
– PA
- 4) Manual override
– PPS

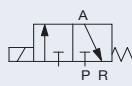
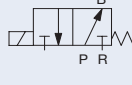
Valve with tag connector form B - Industrial standard (The IN/OUT port is used for 2/2-way version)



Ordering information

Circuit function	Orifice DN [mm]	Body material	Seal material	Voltage [V/Hz]	Port connection	Electrical connection	Item no.
A 	5/64" [2.0 mm]	PPS	FKM	24 V/DC	Sub-base	Rectangular plug	160 758 V
					G 1/8 thread	cable plug type 2507	160 759 W
						Rectangular plug	160 760 T
					NPT 1/8 thread	cable plug type 2507	160 761 Q
						Rectangular plug	160 837 V
					NPT 1/8 thread	cable plug type 2507	160 838 E
	1/8" [3.0 mm]	PPS	FKM	24 V/DC	Sub-base	Rectangular plug	160 763 J
						cable plug type 2507	160 764 K
					G 1/8 thread	Rectangular plug	160 765 L
						cable plug type 2507	160 766 M
					NPT 1/8 thread	Rectangular plug	160 840 L
						cable plug type 2507	160 841 H
					Sub-base	Rectangular plug	160 768 X
						cable plug type 2507	160 769 Y
					G 1/8 thread	Rectangular plug	160 770 V
						cable plug type 2507	160 771 J
					NPT 1/8 thread	Rectangular plug	160 843 B
						cable plug type 2507	160 844 C
					Sub-base	Rectangular plug	155 561 X
						cable plug type 2507	160 773 L
					G 1/8 thread	Rectangular plug	160 774 M
						cable plug type 2507	160 775 N
B 	5/64" [2.0 mm]	PPS	FKM	24 V/DC	Sub-base	Rectangular plug	160 777 Q
					G 1/8 thread	cable plug type 2507	160 778 Z
						Rectangular plug	160 779 S
					NPT 1/8 thread	cable plug type 2507	160 780 Q
						Rectangular plug	160 849 R
					NPT 1/8 thread	cable plug type 2507	160 850 N
	1/8" [3.0 mm]	PPS	FKM	24 V/DC	Sub-base	Rectangular plug	160 782 E
						cable plug type 2507	160 783 F
					G 1/8 thread	Rectangular plug	160 784 G
						cable plug type 2507	160 785 H
					NPT 1/8 thread	Rectangular plug	160 786 I
						cable plug type 2507	160 787 B
					Sub-base	Rectangular plug	160 788 L
						cable plug type 2507	160 789 M
					G 1/8 thread	Rectangular plug	160 790 J
						cable plug type 2507	160 791 K
					NPT 1/8 thread	Rectangular plug	160 855 F
						cable plug type 2507	160 856 G
	1/8" [3.0 mm]	PPS	FKM	24 V/DC	Sub-base	Rectangular plug	160 792 G
						cable plug type 2507	160 793 H
					G 1/8 thread	Rectangular plug	160 794 A
						cable plug type 2507	160 795 B
					NPT 1/8 thread	Rectangular plug	160 859 K
						cable plug type 2507	160 860 Q

Ordering information

Circuit function	Orifice DN [mm]	Body material	Seal material	Voltage [V/Hz]	Port connection	Electrical connection	Item no.			
C 	5/64 in [2.0 mm]	PPS	FKM	24 V/DC	Sub-base	Rectangular plug	160 797 D			
						cable plug type 2507	150 790 Q			
					G 1/8 thread	Rectangular plug	160 798 N			
						cable plug type 2507	160 799 P			
					NPT 1/8 thread	Rectangular plug	160 861 D			
						cable plug type 2507	160 862 E			
						EPDM	24 V/DC	Sub-base	Rectangular plug	160 801 A
								cable plug type 2507	150 791 D	
			G 1/8 thread	Rectangular plug	160 802 B					
				cable plug type 2507	160 803 C					
			NPT 1/8 thread	Rectangular plug	160 864 G					
				cable plug type 2507	160 865 H					
	1/8 in [3.0 mm]	PPS	FKM	24 V/DC	Sub-base	Rectangular plug	160 805 E			
						cable plug type 2507	150 792 E			
					G 1/8 thread	Rectangular plug	160 806 F			
						cable plug type 2507	160 807 G			
					NPT 1/8 thread	Rectangular plug	160 867 B			
						cable plug type 2507	160 868 L			
						EPDM	24 V/DC	Sub-base	Rectangular plug	160 809 J
								cable plug type 2507	150 793 F	
			G 1/8 thread	Rectangular plug	160 810 E					
				cable plug type 2507	160 811 T					
			NPT 1/8 thread	Rectangular plug	160 870 J					
				cable plug type 2507	160 871 F					
D 	5/64 in [2.0 mm]	PPS	FKM	24 V/DC	Sub-base	Rectangular plug	160 813 V			
						cable plug type 2507	150 080 C			
					G 1/8 thread	Rectangular plug	160 814 W			
						cable plug type 2507	TBD			
					NPT 1/8 thread	Rectangular plug	160 873 H			
						cable plug type 2507	160 874 A			
						EPDM	24 V/DC	Sub-base	Rectangular plug	160 817 Z
								cable plug type 2507	150 794 G	
			G 1/8 thread	Rectangular plug	160 818 A					
				cable plug type 2507	160 819 B					
			NPT 1/8 thread	Rectangular plug	160 876 C					
				cable plug type 2507	160 877 D					
	1/8 in [3.0 mm]	PPS	FKM	24 V/DC	Sub-base	Rectangular plug	160 821 V			
						cable plug type 2507	150 795 H			
					G 1/8 thread	Rectangular plug	160 822 W			
						cable plug type 2507	160 823 X			
					NPT 1/8 thread	Rectangular plug	160 879 P			
						cable plug type 2507	160 880 D			
						EPDM	24 V/DC	Sub-base	Rectangular plug	160 825 Z
								cable plug type 2507	150 796 A	
			G 1/8 thread	Rectangular plug	160 826 S					
				cable plug type 2507	160 827 T					
			NPT 1/8 thread	Rectangular plug	160 882 T					
				cable plug type 2507	160 883 U					

- 2507 series cable plug and rectangular plug sold separately. Please see list of accessories.
- Manual override is standard

Ordering information

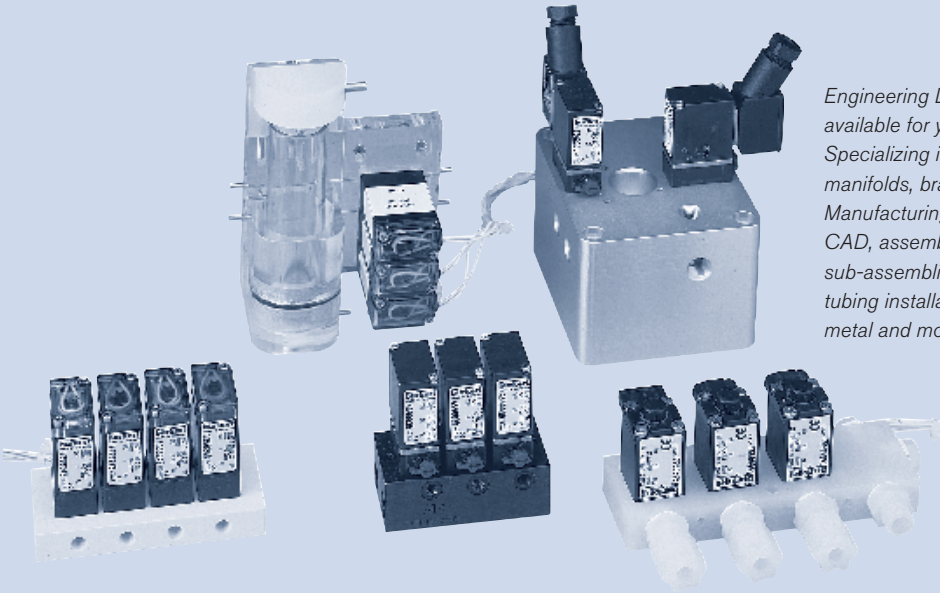
Cable plug Type 2507 to DIN 43650, Form B

Accessory	Description	Voltage	Item no.
Cable plug type 2507	no circuit (standard)	0 ... 250 V AC/DC	423 845 R
	with LED	24 V AC/DC	423 849 V
	with varistor	24 V AC/DC	423 846 J
	with rectifier, LED and varistor	24 V AC/DC	423 853 R



Accessories

Accessory	Description	Item no.
Rectangular plug, 5.08 mm	3 m cable	133 486 F
	2 m leads	148 578 R
	300 mm leads	644 068 N
	single contacts for manifold mounting	644 067 D
	Mounting brackets for single valve mounting (set contains 10 clips and 10 screws M4x6)	648 231 J



Engineering Design and Contract Manufacturing services available for your micro-fluidic system needs. Specializing in Value added Design and Fabrication of manifolds, brackets, cable harnesses and more. Manufacturing services include complete documentation, CAD, assembly and testing of complete systems and sub-assemblies including: valve mounting, fitting and tubing installation, cable harnesses, power boards, sheet metal and more.