

1/4 NPT, Polyamide Body



Advantages/Benefits

- ▶ Suitable for Manifold Mounting
- ▶ High Flow Rates
- ▶ Manual Override as Standard
- ▶ and approval

The Type 5413 is a 4/2 way solenoid valve with a poppet design. An epoxy-encapsulated 3/2 way pilot solenoid valve provides the control. The valve consists basically of two inter-connected 3/2 way valves of opposite function feeding ports A (NC) and B (NO). A min. pressure differential of 14.5 PSI is required to provide reliable switching. The valves can be multi-manifold mounted into assemblies on double-channel manifolds for main air supply and exhaust.

Process Specification

Materials	
Body	Polyamide with molded-in metal threads
Valve internals	Stainless Steel
Sealing	NBR
Fluids	Neutral media, e.g. lubricated or unlubricated compressed air
Temperatures	
Fluid	14°F to 140°F
Ambient	Max. 131°F
Operating voltages	
	24 V/DC
	24/60 Hz
Voltage tolerance	±10%
Duty cycle	100% continuously rated
Electrical connection	
	Tag connectors according to DIN 43650 A for cable plugs
	Type 2508 (see accessories)
Rating	IP 65 (with cable plug)
Installation	
	As required (preferably solenoid system upright)

Flow rate: QNn-value air [l/min]

Measured at 68°F, 87 PSI pressure at valve inlet, 1 bar pressure difference.

Pressure ranges (PSI)

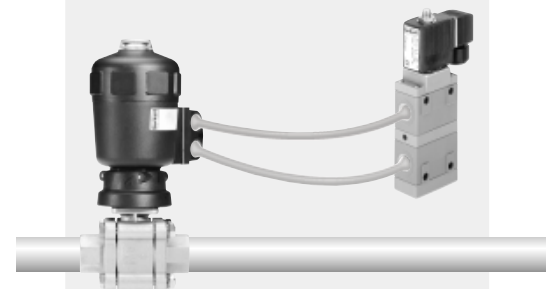
Measured as overpressure to the atmospheric pressure

\*) Applied supply pressure must be 14.5 PSI above the pilot pressure of the valve actuator.

Orifice [inch]	QNn value air <sup>1)</sup> [l/min]	Port conn. [NPT]	Electrical power consumption			Response times		Press. range [PSI]	Weight [kg]
			AC inrush [VA]	AC hold [VA]	DC [W]	opening [ms]	closing [ms]		
1/4	900	1/4	11	6	2	50	30	14.5-145	0.4

Applications

Actuation of large, externally piloted valves



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Fluid Control Systems

## Specifications - Ordering Chart (Other Versions on Request) for Type 5413

(with standard-cable plug 0-250 V AC/DC)

Circuit function	Orifice DN [inch]	Port connection [NPT]	Q <sub>Nn</sub> -value air <sup>1)</sup> [l/min]	Pressure range [PSI]	Voltage / Frequency [V/Hz]	Item-No.
G	1/4	NPT 1/4	900	14.5 – 145	024/DC 024/56 120/60 240/60	442 864 X US07281 439 621 Y US07324

## Specifications - Ordering Chart for Light Alloy Manifolds

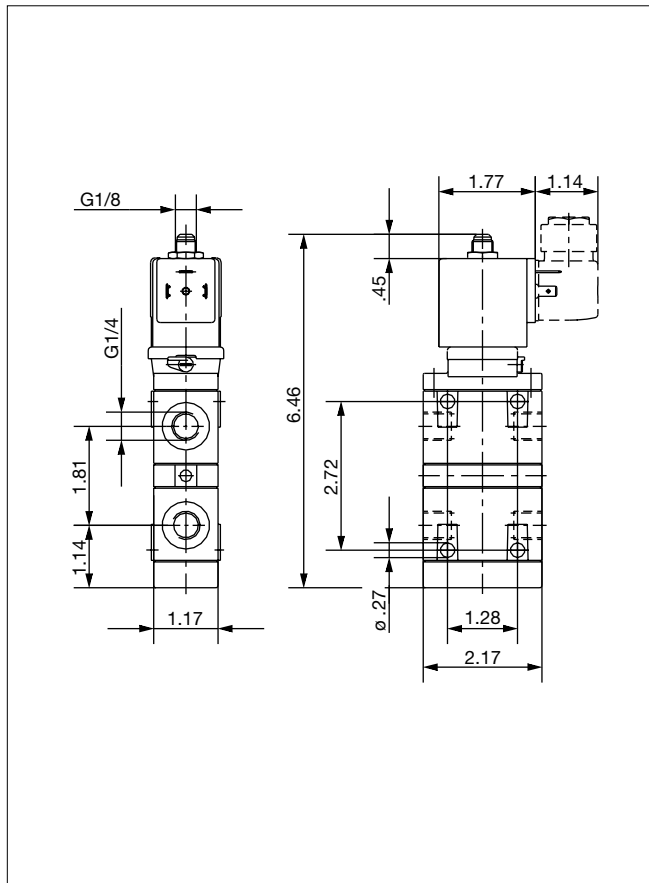
**Double Channel** (for pressure and exhaust port) incl. mounting screws M5 x 60 DIN 912 and O-rings 11 x 2.5

No. of valves	Hole spacing [inch]	Total length [inch]	Item-No.
2	3.66	3.05	005 686 T
3	4.96	4.37	005 688 D
4	6.26	5.67	005 719 B
5	7.56	6.96	005 696 V
6	8.86	8.26	005 626 W
7	10.15	9.56	005 738 E
8	11.45	10.86	005 724 Y
9	12.75	12.16	005 739 F
10	14.05	13.46	005 740 L
11	15.35	14.76	005 804 S
12	16.65	16.06	005 700 M

**Single Channel** (for pressure port) incl. banjo bolts and seals

No. of valves	Hole spacing [inch]	Total length [inch]	Item-No.
2	3.03	3.66	005 811 Q
3	4.33	4.96	005 717 Z
4	5.63	6.26	005 843 Y
5	6.93	7.56	005 776 C
6	8.23	8.86	005 718 A

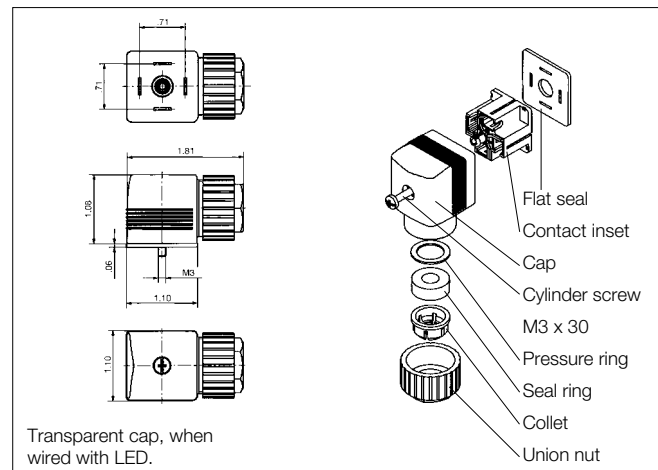
## Dimensions [inch]



## Ordering Chart for Accessories

Device/ Accessory	Features	Item-No.
Cable plugs <sup>1)</sup> Type 2508	Standard cable plug, 0–250 V AC/DC (standard-delivery) <sup>1)</sup>	008 376 N
	with LED, 12–24 V AC/DC	008 360 S
	with LED, 100–120 V AC/DC	008 361 P
	with LED + varistor, 12–24 V AC/DC	008 367 M
	with LED + varistor, 100–120 V AC/DC	008 368 W
	with LED + varistor, 200–240 V AC/DC	008 369 X
	(optional wirings and connection specifications see data sheet Type 2508)	

<sup>1)</sup> The standard cable plug (0-250 V AC/DC), Order-No. 008 376 N is part of the standard delivery.  
Ordering of optional cable plugs with separate item number.  
A wide selection of further cable plugs is available (see datasheet Type 2508)



In case of special requirements please consult for advice.

We reserve the right to make technical changes without notice.

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