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### Important Note

The information shown in these documents is for guidance only. No liability is accepted for any errors or omissions. The designer or user is solely responsible for the safe and proper application of the parts, assemblies or equipment described.

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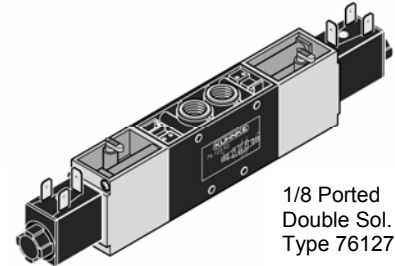
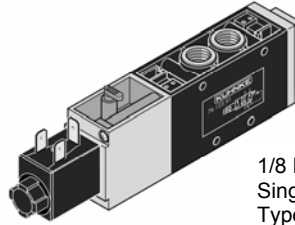
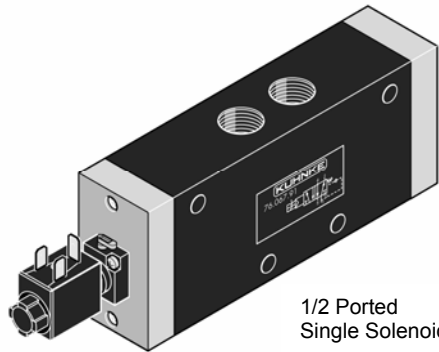
# Electrically Operated Valves

## General Purpose

Kuhnke Power Valves

### Directional Control Valves (5/2), Solenoid Operated

(Poppet Design, In Line Mounting)



Solenoid operated, air piloted poppet valves are available in single, double, priority and external air pilot supply versions. Priority version overrides signal from opposite solenoid to assure return to valve home position. Valves with external air pilot connections are used when switching pressures below 2.5 bar. Poppet valves usually provide higher flow rates than other types of valves because of flow path design. Valves include a red manual override for easy testing. Encapsulated coils provide splash proof protection when used with plug connectors. Valves can be mounted individually using through body holes or assembled on manifolds.

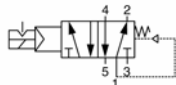
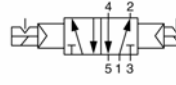

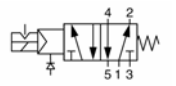
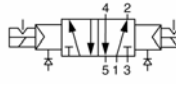
#### Order Coils Separately

Valve catalogue numbers do not include solenoid coils. Coils are supplied loose and unmounted as separate items. (Double solenoid types require 2 coils.)

**AC Coil Catalogue No. 76410-02-\*\***  
**DC Coil Catalogue No. 76410-00-\*\***

\*\* - Add the required coil voltage suffix code from the chart below to complete the coil catalogue number.

| Voltage | AC | DC |
|---------|----|----|
| 12V     | -  | 01 |
| 24V     | 12 | 02 |
| 48V     | 13 | 03 |
| 110V    | 14 | 04 |
| 230V    | 15 | 05 |

| Description   | Orifice (Body No.) | Dimensions (Approx. mm) L x W x H | Port Size | Catalogue Number      |                      |
|---|--------------------|-----------------------------------|-----------|-----------------------|----------------------|
|   |                    |                                   |           | Metric Ports Standard | NPT Ports (USA Std.) |
| <b>Single Solenoid</b><br>Spring Return-air assisted<br>           | 6mm (10P)          | 162 x 28 x 40                     | 1/8       | 76027-91-00           | 75027-91-00          |
|   | 6mm (1MP)          | 157 x 24 x 40                     | 1/8       | 76127-91-00           | (Not Available)      |
|   | 8mm (7P)           | 178 x 26 x 50                     | 1/4       | 76047-91-00           | 75047-91-00          |
|   | 15mm (12P)         | 225.5 x 40 x 70                   | 1/2       | 76067-91-00           | 75067-91-00          |
| <b>Double Solenoid</b><br>With Detent<br>                        | 6mm (10P)          | 218 x 28 x 40                     | 1/8       | 76027-92-00           | 75027-92-00          |
|   | 6mm (1MP)          | 213 x 24 x 40                     | 1/8       | 76127-92-00           | (Not Available)      |
|   | 8mm (7P)           | 251 x 26 x 50                     | 1/4       | 76047-92-00           | 75047-92-00          |
|   | 15mm (12P)         | 282 x 40 x 70                     | 1/2       | 76067-92-00           | 75067-92-00          |
| <b>Double Solenoid</b><br>With Priority Detent<br>               | 6mm (1MP)          | 213 x 24 x 40                     | 1/8       | 76127-93-00           | (Not Available)      |
|   | --                 | --                                | --        | --                    | --                   |
|   | --                 | --                                | --        | --                    | --                   |
| <b>Single Solenoid</b><br>External Air Pilot * Spring Return<br> | 6mm (10P)          | 162 x 28 x 40                     | 1/8       | 76327-91-00           | 75327-91-00          |
|   | 6mm (1MP)          | 194 x 24 x 40                     | 1/8       | 76527-91-00           | (Not Available)      |
|   | 8mm (7P)           | 178 x 26 x 50                     | 1/4       | 76347-91-00           | 75347-91-00          |
|   | 15mm (12P)         | 210 x 40 x 70                     | 1/2       | 76367-91-00           | 75367-91-00          |
| <b>Double Solenoid</b><br>External Air Pilot * With Detent<br>   | 6mm (10P)          | 218 x 28 x 40                     | 1/8       | 76327-92-00           | 75327-92-00          |
|   | 6mm (1MP)          | 251 x 24 x 40                     | 1/8       | 76527-92-00           | (Not Available)      |
|   | 8mm (7P)           | 308 x 26 x 50                     | 1/4       | 76347-92-00           | 75343-92-00          |
|   | 15mm (12P)         | 320 x 40 x 70                     | 1/2       | 76367-92-00           | 75367-92-00          |

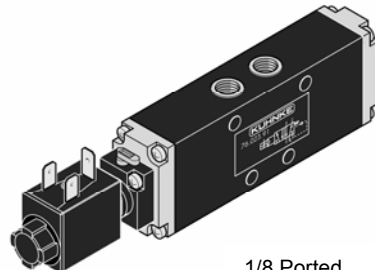
\* External Air Pilot: valves have an auxiliary M5 (10-32) port (1/8 on 1/2 ported valves) for connecting a separate air pilot supply for the solenoid section. For use when switching air pressures below 2.5 bar.

Operating pressure range is 2.5 to 10 bar. (Use valves with external pilot for switching lower pressures).

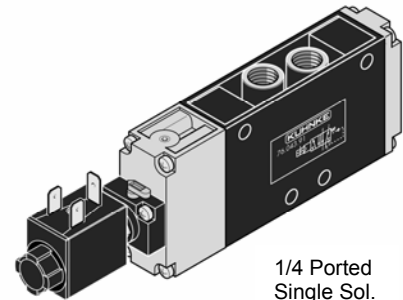
Through body holes are 4.5mm for 1/8 and 1/4 ported valves, 6.5mm for 1/2 ported valves.

**For valve specifications see appendix. See accessory section for connectors and manifolds. For detail dimensions contact factory.**

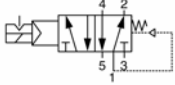
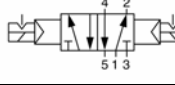
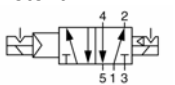
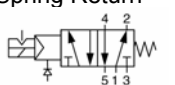
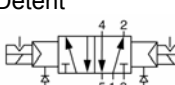
### Directional Control Valves (5/2) Solenoid Operated (Spool Design, In Line Mounting)



1/8 Ported  
Single Sol.



1/4 Ported  
Single Sol.

| Description  | Orifice<br>(Body<br>No.) | Dimensions<br>(Approx.<br>mm)<br>L x W x H | Port<br>Size | Catalogue Number           |                         |
|--|--------------------------|--|--------------|----------------------------|-------------------------|
|  |                          |  |              | Metric Ports<br>(Standard) | NPT Ports<br>(USA Std.) |
| <b>Single Solenoid</b><br>Spring Return-<br>air assisted<br>        | 6mm<br>(8S)              | 162 x<br>28 x 40                           | 1/8          | <b>76023-91-00</b>         | 75023-91-00             |
|  | 6mm<br>(1MS)             | 160 x<br>25 x 40                           | 1/8          | <b>76123-91-00</b>         | (Not Available)         |
|  | 8mm<br>(5S)              | 178 x<br>25 x 50                           | 1/4          | <b>76043-91-00</b>         | 75043-91-00             |
| <b>Double Solenoid</b><br>With Detent<br>                           | 6mm<br>(8S)              | 220 x<br>28 x 40                           | 1/8          | <b>76023-92-00</b>         | 75023-92-00             |
|  | 6mm<br>(1MS)             | 215 x<br>25 x 40                           | 1/8          | <b>76123-92-00</b>         | (Not Available)         |
|  | 8mm<br>(5S)              | 250 x<br>25 x 50                           | 1/4          | <b>76043-92-00</b>         | 75043-92-00             |
| <b>Double Solenoid</b><br>With Priority<br>Detent<br>               | 6mm<br>(1MS)             | 215 x<br>25 x 50                           | 1/8          | <b>76123-93-00</b>         | (Not Available)         |
|  | --                       | --   | --           | --                         | --                      |
|  | --                       | --   | --           | --                         | --                      |
| <b>Single Solenoid</b><br>External Air Pilot *<br>Spring Return<br> | 6mm<br>(8S)              | 194 x<br>25 x 40                           | 1/8          | <b>76323-91-00</b>         | 75323-91-00             |
|  | 6mm<br>(1MS)             | 194 x<br>25 x 40                           | 1/8          | <b>76523-91-00</b>         | (Not Available)         |
|  | 8mm<br>(5S)              | 210 x<br>25 x 40                           | 1/4          | <b>76343-91-00</b>         | 75343-91-00             |
| <b>Double Solenoid</b><br>External Air Pilot *<br>Detent<br>        | 6mm<br>(8S)              | 258 x<br>28 x 40                           | 1/8          | <b>76323-92-00</b>         | 75323-92-00             |
|  | 8mm<br>(5S)              | 308 x<br>25 x 50                           | 1/4          | <b>76343-92-00</b>         | 75343-92-00             |
|  | --                       | --   | --           | --                         | --                      |

Solenoid operated, air piloted spool valves are available in single, double, priority and external air pilot versions. Valve designs use a stainless steel spool moving within a sleeve to direct airflow to the ports of the valve. Spool valves are known for their long life capability.

Valves are available in 1/8 and 1/4 port sizes and have an operating range of 2.5 to 10 bar.

Valves include a red manual override and encapsulated coils and can be individually mounted or assembled on manifolds.

#### Order Coils Separately

Valve catalogue numbers do not include solenoid coils. Coils are supplied loose and unmounted as separate items. (Double solenoid types require 2 coils.)

**AC Coil Catalogue No. 76410-02-\*\***

**DC Coil Catalogue No. 76410-00-\*\***

\*\* - Add the required coil voltage suffix code from the chart below to complete the coil catalogue number.

| Voltage | AC | DC |
|---------|----|----|
| 12V     | -  | 01 |
| 24V     | 12 | 02 |
| 48V     | 13 | 03 |
| 110V    | 14 | 04 |
| 230V    | 15 | 05 |

\* External Air Pilot: valves have an auxiliary M5 port for connecting a separate air pilot supply for the solenoid section. For use when switching air pressures below 2.5 bar.

Operating pressure range is 2.5 to 10 bar. (Use valves with external pilot for switching lower pressures.)

Through body mounting holes are 6mm.

**For valve specifications see appendix. See accessory section for connectors and manifolds. For detail dimensions contact factory.**