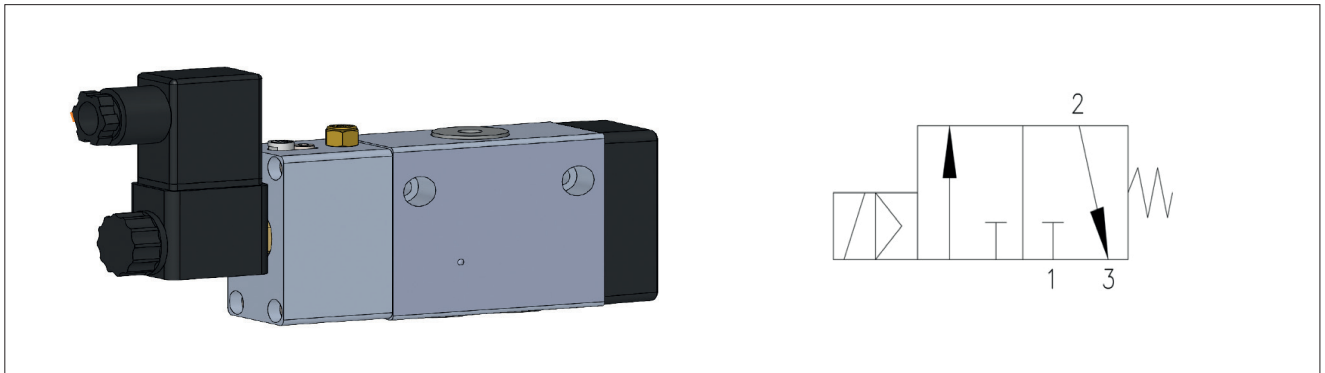


# Neles Easyflow™ high capacity solenoid valves

## Series DAQ and VAQ IP certified valves

### 3/2 way solenoid valve

Model no. DAQ213 / DAQ313 / DAQ413



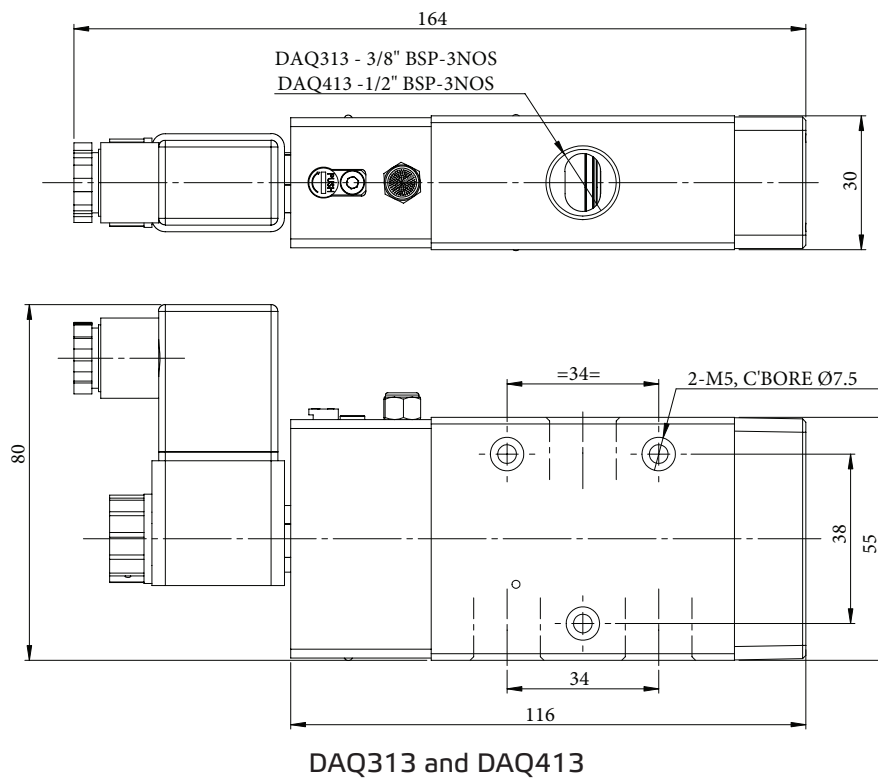
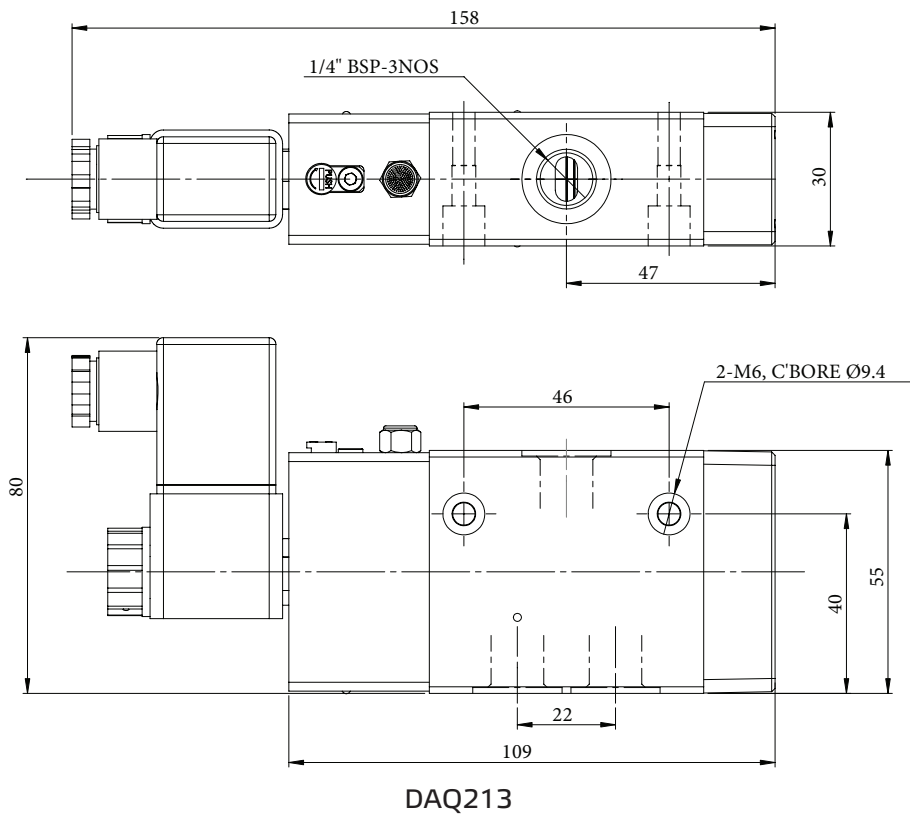
#### Features

- Mounts in any position
- High flow solenoid valves
- Helping piston improves valves performance & reliability
- Solenoid capable of turning 360°
- Solenoid continuous duty rated
- Noiseless performance
- Available in BSP & NPT port thread type
- Spring & air return ensures healthy valve operation in case of spring failure also
- IP certification

#### Technical specification

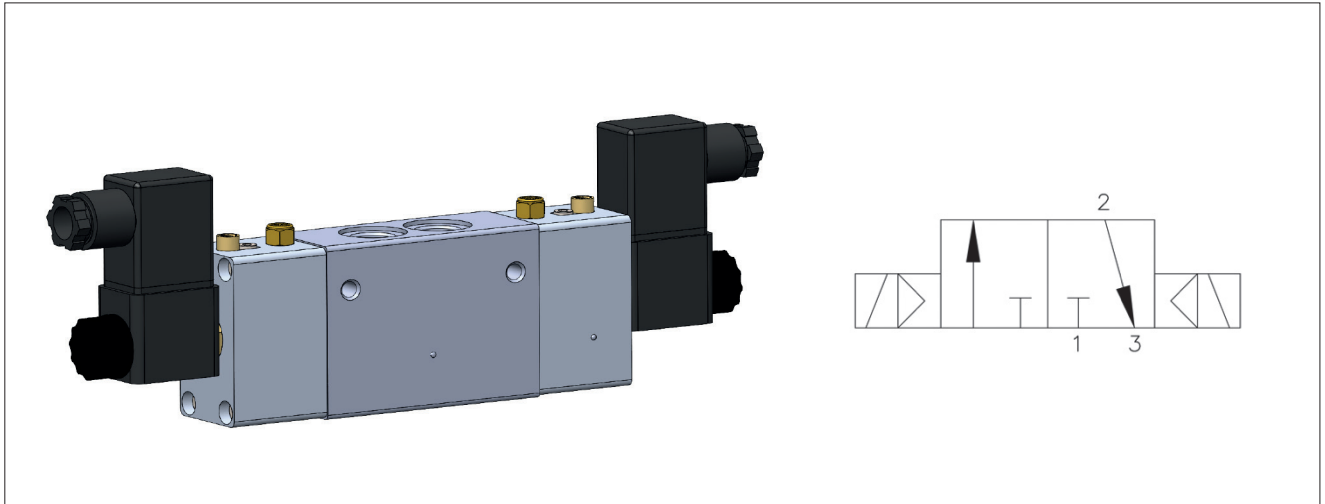
| Model                          | DAQ213   | DAQ313                        | DAQ413 |
|--------------------------------|--|-------------------------------|--------|
| Type                           | 3/2 way spool design, single coil, spring & air return direction control valve |                               |        |
| Media                          | Compressed air, 25 µm. Filtered, lubricated or unlubricated                    |                               |        |
| Mounting                       | Through holes in housing, also suitable for mounting on manifold               |                               |        |
| Orifice (mm)                   | 6.7  | 10                            | 10     |
| Flow factor (kv) (L/min)       | 15   | 38                            | 38     |
| Port size                      | 1/4"   | 3/8"                          | 1/2"   |
| Operating pressure range (bar) | 3-10   |                               |        |
| Temperature range (°C)         | -10 to 70  |                               |        |
| Response time at 5 bar         | On time 28 ms, Off time 36 ms  | On time 32 ms, Off time 48 ms |        |
| Manual override type           | Push type & rotate to lock   |                               |        |
| Operating voltage              | AC (50 Hz) – 110, 220  | DC – 12, 24, 48               |        |
| Duty cycle                     | Continuous   |                               |        |
| Coil insulation class          | F  |                               |        |
| Valve body MOC                 | Aluminium  |                               |        |
| Seals MOC                      | NBR  |                               |        |

Dimensional drawings



## 3/2 way solenoid valve

Model no. DAQ214 / DAQ314 / DAQ414



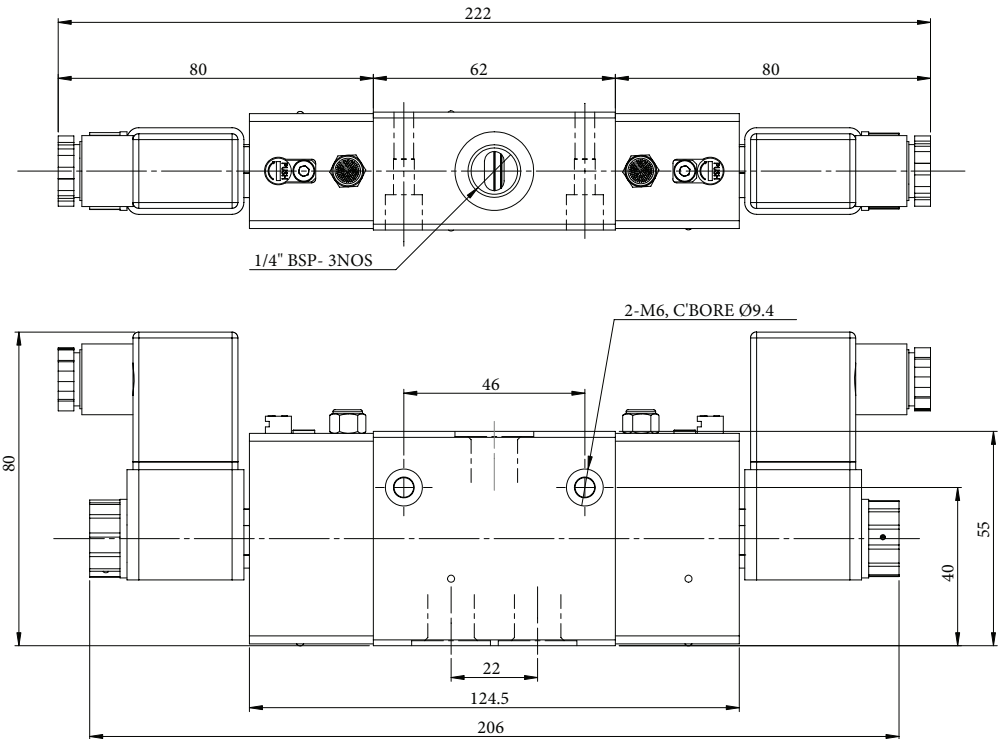
### Features

- Mounts in any position
- High flow solenoid valves.
- Helping piston improves valves performance & reliability
- Solenoid capable of turning 360°
- Solenoid continuous duty rated
- Noiseless performance
- Available in BSP & NPT port thread type
- IP Certification

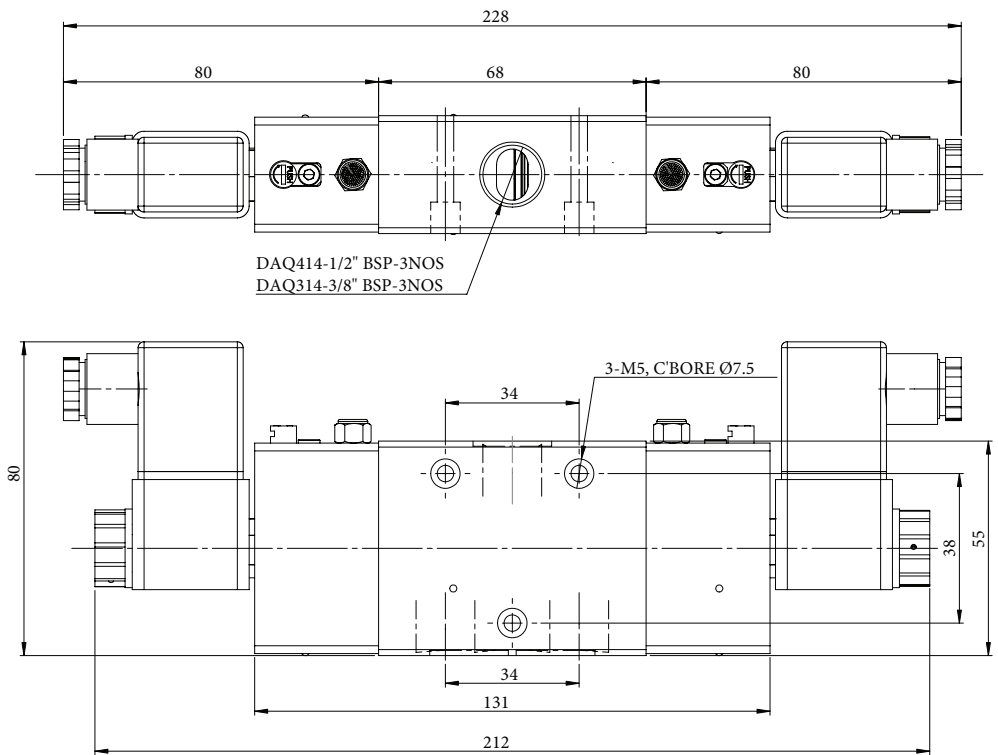
### Technical specification

| Model                          | DAQ214   | DAQ314                        | DAQ414 |
|--------------------------------|--|-------------------------------|--------|
| Type                           | 3/2 way spool design, double coil, direction control valve       |                               |        |
| Media                          | Compressed air, 25 µm. Filtered, lubricated or unlubricated      |                               |        |
| Mounting                       | Through holes in housing, also suitable for mounting on manifold |                               |        |
| Orifice (mm)                   | 6.7  | 10                            | 10     |
| Flow factor (kv)               | 15   | 38                            | 38     |
| Port size                      | 1/4"   | 3/8"                          | 1/2"   |
| Operating pressure range (bar) | 3-10   |                               |        |
| Temperature range (°C)         | -10 to 70  |                               |        |
| Response time at 5 bar         | On time 28 ms, Off time 36 ms                                    | On time 32 ms, Off time 48 ms |        |
| Manual override type           | Push type & rotate to lock                                       |                               |        |
| Operating voltage              | AC (50 Hz) – 110, 220  | DC – 12, 24, 48               |        |
| Duty cycle                     | Continuous   |                               |        |
| Coil insulation class          | F  |                               |        |
| Valve body MOC                 | Aluminium  |                               |        |
| Seals MOC                      | NBR  |                               |        |

Dimensional drawings



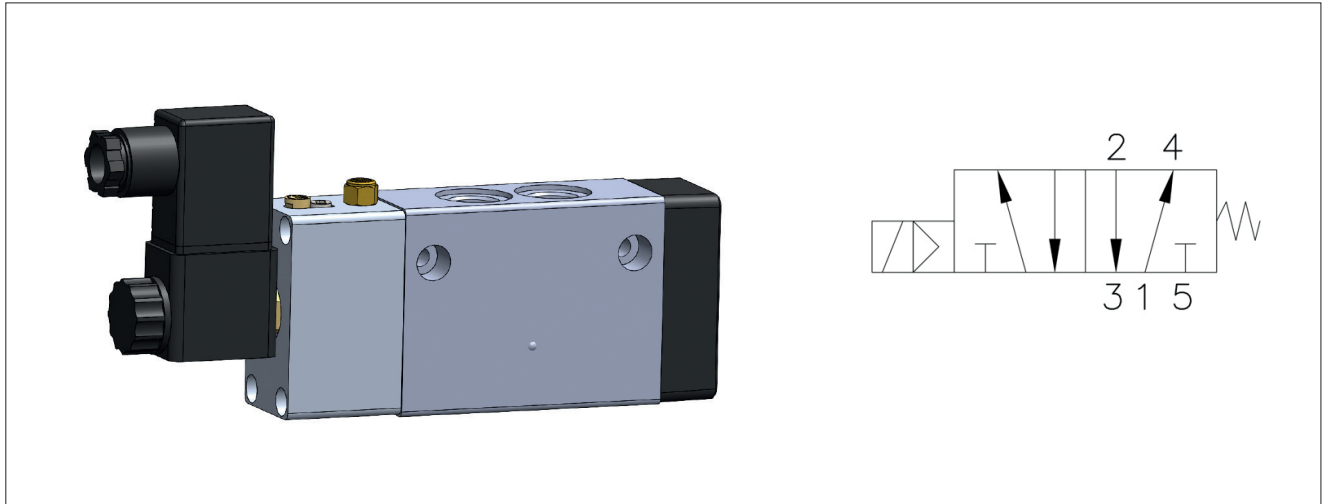
DAQ214



DAQ314 and DAQ414

## 5/2 way solenoid valve

Model no. VAQ213 / VAQ313 / VAQ413



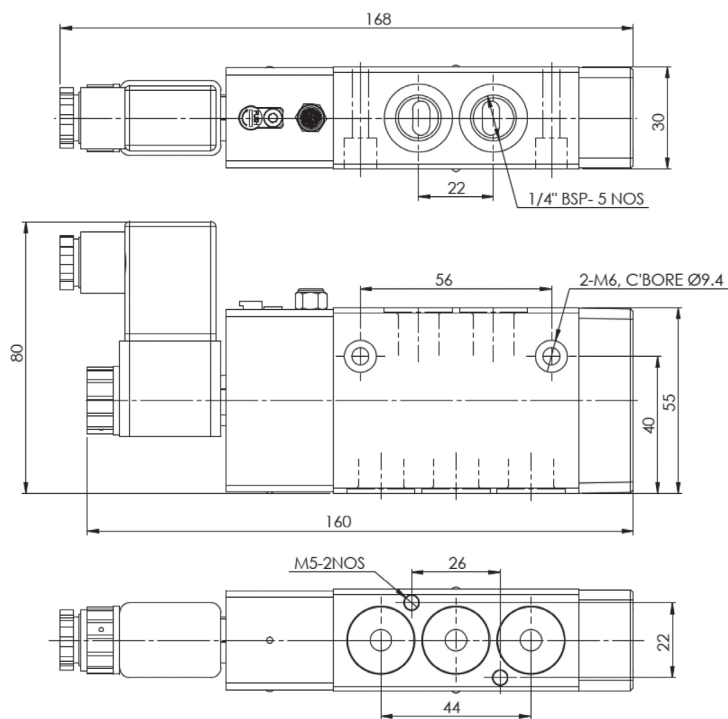
### Features

- Mounts in any position
- High flow solenoid valves
- Helping piston improves valves performance & reliability
- Solenoid capable of turning 360°
- Solenoid continuous duty rated
- Noiseless performance
- Available in BSP & NPT port thread type
- Spring & air return ensures healthy valve operation in case of spring failure also
- IP certification

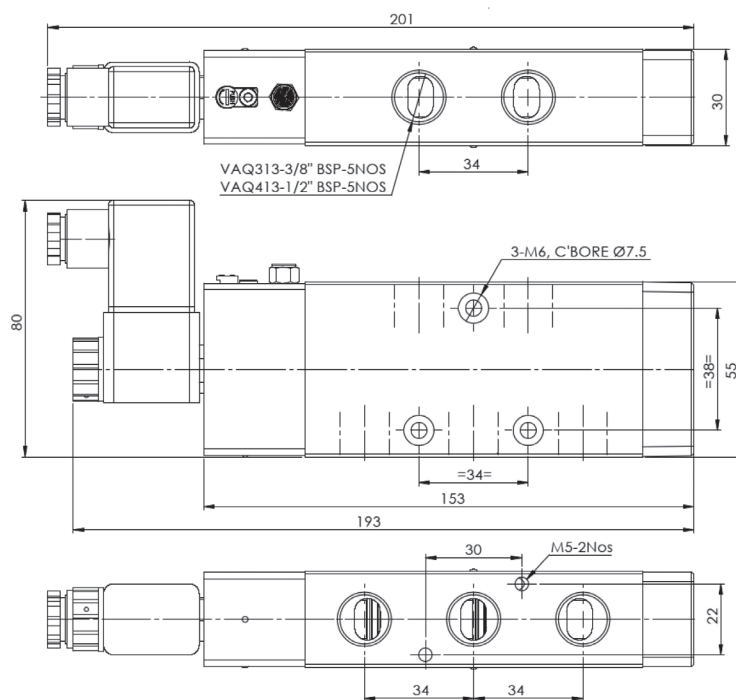
### Technical specification

| Model                          | VAQ213   | VAQ313                        | VAQ413 |
|--------------------------------|--|-------------------------------|--------|
| Type                           | 5/2 way spool design, double coil, direction control valve       |                               |        |
| Media                          | Compressed air, 25 µm. Filtered, lubricated or unlubricated      |                               |        |
| Mounting                       | Through holes in housing, also suitable for mounting on manifold |                               |        |
| Orifice (mm)                   | 6.7  | 10                            | 10     |
| Flow factor (kv)               | 15   | 38                            | 38     |
| Port size                      | 1/4"   | 3/8"                          | 1/2"   |
| Operating pressure range (bar) | 3-10   |                               |        |
| Temperature range (°C)         | -10 to 70  |                               |        |
| Response time at 5 bar         | On time 28 ms, Off time 36 ms                                    | On time 32 ms, Off time 48 ms |        |
| Manual override type           | Push type & rotate to lock                                       |                               |        |
| Operating voltage              | AC (50 Hz) – 110, 220  | DC – 12, 24, 48               |        |
| Duty cycle                     | Continuous   |                               |        |
| Coil insulation class          | F  |                               |        |
| Valve body MOC                 | Aluminium  |                               |        |
| Seals MOC                      | NBR  |                               |        |

## Dimensional drawings



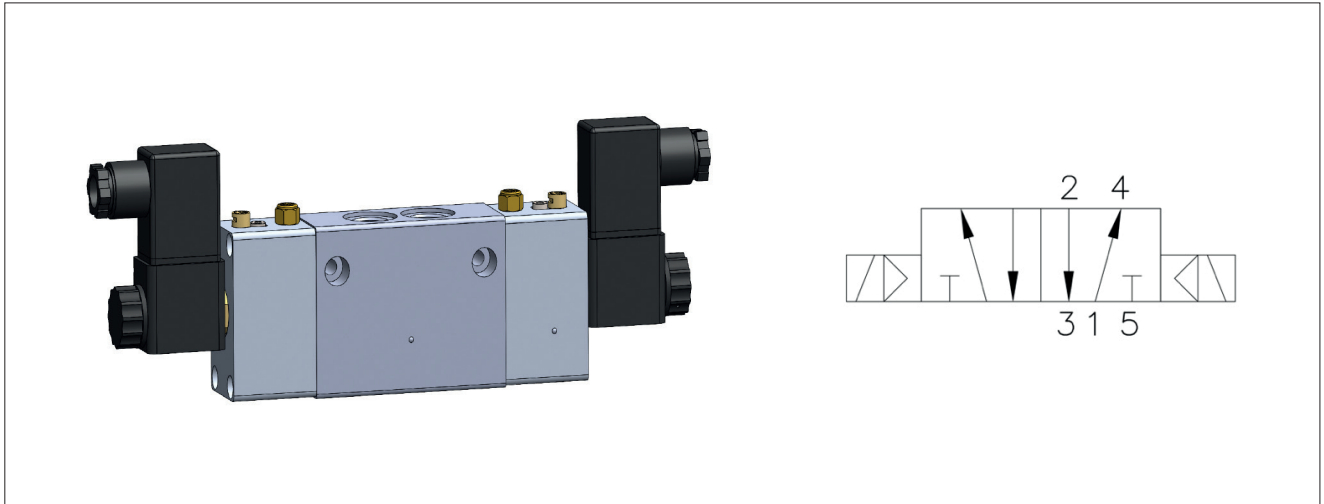
VAQ213



VAQ313 and VAQ413

## 5/2 way solenoid valve

Model no. VAQ214 / VAQ314 / VAQ414



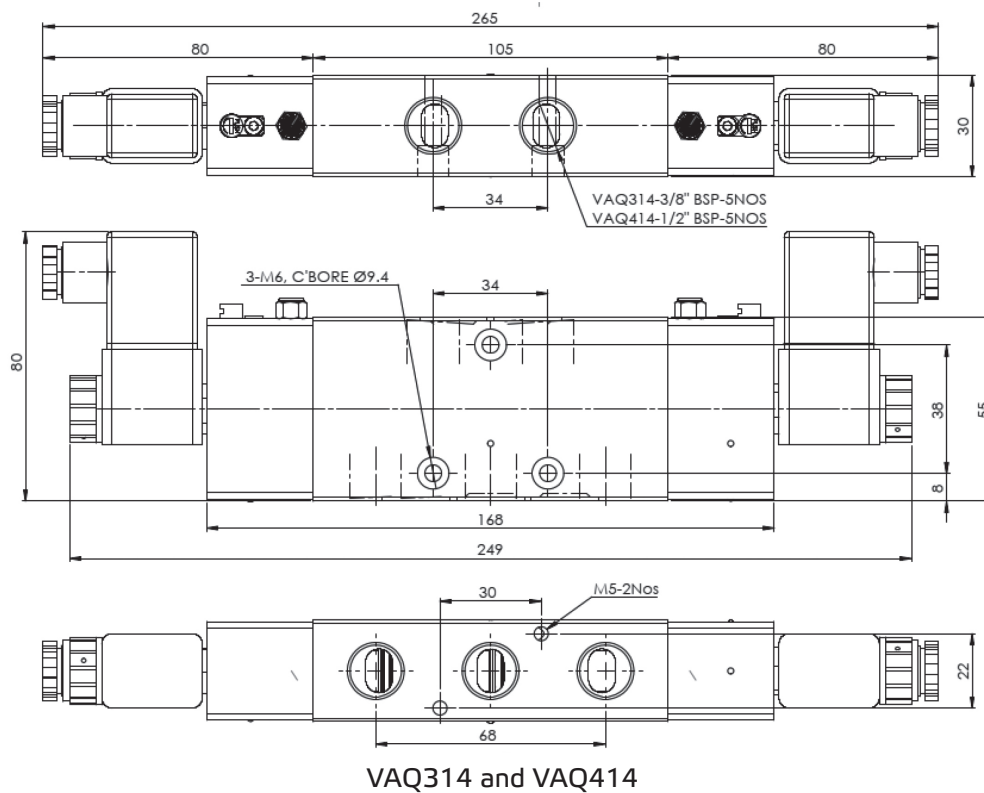
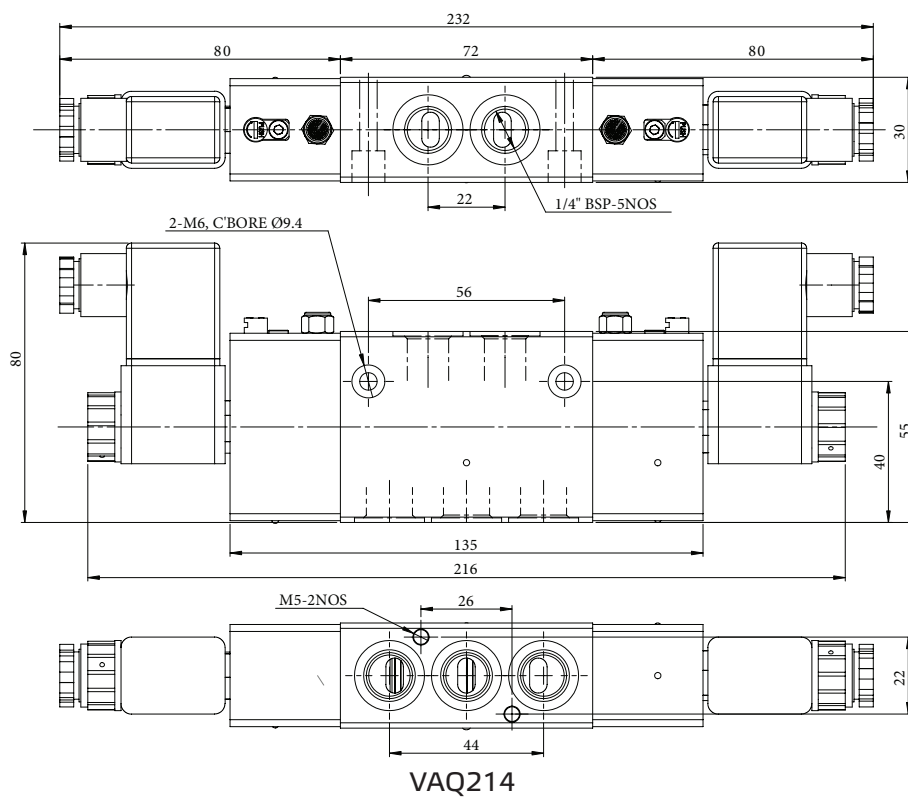
### Features

- Mounts in any position
- High flow solenoid valves.
- Helping piston improves valves performance & reliability.
- Solenoid capable of turning 360°
- Solenoid continuous duty rated
- Noiseless performance
- Available in BSP & NPT port thread type
- IP certification

### Technical specification

| Model                          | VAQ214   | VAQ314 | VAQ414                        |
|--------------------------------|--|--------|-------------------------------|
| Type                           | 5/2 way spool design, single coil, spring & air return direction control valve |        |                               |
| Media                          | Compressed air, 25 µm. Filtered, lubricated or unlubricated                    |        |                               |
| Mounting                       | Through holes in housing, also suitable for mounting on manifold               |        |                               |
| Orifice (mm)                   | 6.7  | 10     | 10                            |
| Flow factor (kv)               | 15   | 38     | 38                            |
| Port size                      | 1/4"   | 3/8"   | 1/2"                          |
| Operating pressure range (bar) | 3-10   |        |                               |
| Temperature range (°C)         | -10 to 70  |        |                               |
| Response time at 5 bar         | On time 28 ms, Off time 36 ms  |        | On time 32 ms, Off time 48 ms |
| Manual override type           | Push type & rotate to lock   |        |                               |
| Operating voltage              | AC (50 Hz) – 110, 220  |        | DC – 12, 24, 48               |
| Duty cycle                     | Continuous   |        |                               |
| Coil insulation class          | F  |        |                               |
| Valve body MOC                 | Aluminium  |        |                               |
| Seals MOC                      | NBR  |        |                               |

## Dimensional drawings





## How to order

| 1.  | 2. | 3. | 4. | 5. | 6. | 7.   | 8. | 9. |
|-----|----|----|----|----|----|------|----|----|
| DAQ | 2  | 13 | G  | 0  | 0  | 01D0 | P1 | NN |

| 1.  | Valve type |
|-----|------------|
| DAQ | 3/2 way    |
| VAQ | 5/2 way    |

| 2. | Port size |
|----|-----------|
| 2  | 1/4"      |
| 3  | 3/8"      |
| 4  | 1/2"      |

| 3. | Operator    |
|----|-------------|
| 13 | Single coil |
| 14 | Double coil |

| 4. | Port connrction |
|----|-----------------|
| G  | BSP             |
| R  | NPT             |

| 5. | Body and spool material |
|----|-------------------------|
| 0  | Aluminium               |
| 1  | SS316                   |

| 6. | Seals |
|----|-------|
| 0  | NBR   |
| 1  | VITON |

| 7.   | Coil       |
|------|------------|
| 01D0 | 12VDC      |
| 02D0 | 24VDC      |
| 03D0 | 48VDC      |
| 04D0 | 110VDC     |
| 05D0 | 220VDC     |
| 01A0 | 24VAC      |
| 02A0 | 48VAC      |
| 03A0 | 110VAC     |
| 04A0 | 220VAC     |
| 11AL | 110VAC-LED |
| 12AL | 220VAC-LED |
| 13AL | 24VAC-LED  |
| 11DL | 24VDC-LED  |

| 8. | Protection |
|----|------------|
| P1 | IP66/67    |

| 9. | Certification |
|----|---------------|
| NN | NILL          |

### ORDERING EXAMPLE:

1. DAQ-2-13-G-0-0-01D0-P1-NN. This is a 3/2 position single coil solenoid valve with port size of 1/4" BSP connection with Aluminium body having NBR seal and coil voltage of 12VDC, IP Certified valve
2. VAQ-2-13-G-0-0-01A0-P1-NN. This is a 5/2 position single coil solenoid valve with port size of 1/4" BSP connection with Aluminium body having NBR seal and coil voltage of 12VDC IP Certified valve

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