

# Vickers® by Danfoss

## Solenoid Directional Control Valve

DG4V-3M, DG4V-5M, KDG4V-3M

Aerial work platforms; vocational vehicles; agriculture, construction, and mining machinery



### DG valve for mobile equipment

The DG4V-3M, DG4V-5M and KDG4V-3M directional control valves are targeted at mobile applications with demanding environmental requirements for ingress protection and reliability. Built on Vickers proven industrial valve platform, these valves provide dependable directional control performance in both the CETOP 3 and CETOP 5 sizes. Proportional control is also available in the CETOP 3 size. Integrated Deutsch connectors provide best-in-class IP69K ingress protection – perfect for applications requiring high pressure washdown.

#### DG4V-3M



- Size D03 / NG06
- Standard Viton seals
- Flow up to 80 l/min (21 US GPM)
- Push button overrides
- Proportional control available (see KDG4V-3M)
- Can be used to pilot DG5V-7 or DG5V-8

DG4V — 3M — \* \* — V(M) — KUP5(D) — H 7 — \*\*

1 2 3 4 5 6 7 8

**1 Valve size 3M**  
CETOP 3 / NG06

**2 Spool type**  
Standard spool as per DG4V3 catalog

**3 Spool spring arrangement**  
Standard arrangements as per DG4V3 catalog

**4 Solenoid Energization Identity**  
**Blank** - None  
**V** - Solenoid "A" is at port "A" end and/or solenoid "B" is at port "B" end, independent of spool type

**5 Coil type KUP5**  
Integral Deutsch connector male DT04-2P. Mating connector DT06-2S  
*Note: KUP5D available with diodes*

**6 Coil rating**  
**G** 12V DC  
**H** 24V DC  
**DS** 28V DC

**7 Tank pressure rating**  
**7** 210 bar (3000psi)

**8 Design number**  
**65** 65 design - standard corrosion protected  
**66** 66 design - 480 hrs corrosion protected

*Note: For complete model code, please refer to Danfoss standard DG D03/NG6 catalog*

#### Specifications

|                                 |                                             |
|---------------------------------|---------------------------------------------|
| Basic features                  | D03/NG06                                    |
| Maximum pressure (P, A, B port) | 350 bar (5000 psi)                          |
| Maximum pressure (T port)       | 210 bar (3000 psi)                          |
| Minimum ambient temperature     | -20 deg C (-4 deg F)                        |
| Maximum ambient temperature     | +70 deg C (158 deg F)                       |
| Rated voltage                   | 12V, 24V DC (±10%),<br>28V DC (-15% / +10%) |
| Power                           | 30W                                         |

## DG4V-5M



- Size D05 / NG10
- Standard Viton seals
- Flow up to 120 l/min (31.5 US GPM)
- Push button overrides

### Specifications

|                                 |                         |
|---------------------------------|-------------------------|
| Basic features                  | D05/NG10                |
| Maximum pressure (P, A, B port) | 315 bar (4500 psi)      |
| Maximum pressure (T port)       | 210 bar (3000 psi)      |
| Minimum ambient temperature     | -20 deg C (-4 deg F)    |
| Maximum ambient temperature     | +70 deg C (158 deg F)   |
| Rated voltage                   | 12V, 24V, 28V DC (±10%) |
| Power                           | 38W                     |

DG4V — 5M — \* \* — M — KUP5(D) — H 7 — \*\*

1 2 3 4 5 6 7

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| <p><b>1 Valve size</b><br/><b>5M</b><br/>CETOP 5 / NG10</p> <p><b>2 Spool type</b><br/>Standard spools<br/>per DG4V5 catalog</p> <p><b>3 Spool spring arrangement</b><br/>Standard<br/>arrangements per<br/>DG4V5 catalog</p> | <p><b>4 Coil type</b><br/><b>KUP5</b><br/>Integral Deutsch<br/>connector male<br/>DT04-2P. Mating<br/>connector DT06-2S<br/><i>Note: KUP5D available<br/>with diodes</i></p> <p><b>5 Coil rating</b><br/><b>G</b> 12V DC<br/><b>H</b> 24V DC<br/><b>DS</b> 28V DC</p> | <p><b>6 Tank pressure</b><br/><b>7</b> 210 bar (3000psi)</p> <p><b>7 Design number</b><br/><b>22</b> 22 design -<br/>standard<br/>corrosion<br/>protected<br/><br/><b>23</b> 23 design - 480<br/>hrs corrosion<br/>protected<br/><br/><i>Note: For complete model<br/>code, please refer to Danfoss<br/>standard DG D05/NG10<br/>catalog</i></p> |
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## KDG4V-3M



- Size D03 / NG06
- Standard Viton seals
- Flow up to 30 l/min (7.9 US GPM)
- Push button overrides
- Proportional control
- Can be used to pilot KDG5V-7 or KDG5V-8

### Specifications

|                                 |                       |
|---------------------------------|-----------------------|
| Basic features                  | D03/NG06              |
| Maximum pressure (P, A, B port) | 350 bar (5000 psi)    |
| Maximum pressure (T port)       | 210 bar (3000 psi)    |
| Minimum ambient temperature     | -20 deg C (-4 deg F)  |
| Maximum ambient temperature     | +70 deg C (158 deg F) |
| Rated voltage                   | 12V, 24V              |
| Power                           | 18W(G/H); 30W(GP/HA)  |

KDG4V — 3M — \* \* — M — KUP5(D) — H 7 — \*\*

1 2 3 4 5 6 7

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| <p><b>1 Valve size</b><br/><b>3M</b><br/>CETOP 3 / NG06</p> <p><b>2 Spool type</b><br/>Standard spool<br/>as per KDG4V3<br/>catalog</p> <p><b>3 Spool spring arrangement</b><br/>Standard<br/>arrangements as<br/>per KDG4V3 catalog</p> | <p><b>4 Coil type</b><br/><b>KUP5</b><br/>Integral Deutsch<br/>connector male<br/>DT04-2P. Mating<br/>connector DT06-2S<br/><i>Note: KUP5D also<br/>available with diodes</i></p> <p><b>5 Coil rating</b><br/><b>G</b> 12V DC, 1.8 Ω<br/><b>H</b> 24V DC, 7.2 Ω<br/><b>GP</b> 12V DC, 4.9 Ω<br/><b>HA</b> 24V DC, 19.6 Ω</p> | <p><b>6 Tank pressure rating</b><br/><b>7</b> 210 bar (3000psi)</p> <p><b>7 Design number</b><br/><b>65</b> 65 design -<br/>standard<br/>corrosion<br/>protected<br/><br/><b>66</b> 66 design - 480<br/>hrs corrosion<br/>protected<br/><br/><i>Note: For complete model<br/>code, please refer to Danfoss<br/>standard KDG D03/NG6<br/>catalog</i></p> |
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