Directional Control Valve
DG4V–3(S)–*N–FJ/FW–60
DG4V–3(S)–*A(L)/B(L)–FJ/FW–60
DG4V–3(S)–*A(L)/B(L)–FJ/FW–60
Spring offset/Spring centered

Single solenoid valves, solenoid at “A” port end. Transient condition only.

Single solenoid valves, solenoid at “B” port end. Transient condition only.

NOTE
Right hand assembly shown, for left hand assembly all parts reversed except body (& spool on “B” builds) and electrical connectors (where applicable).

<table>
<thead>
<tr>
<th>MODEL</th>
<th>KNOB</th>
<th>CORE TUBE S/A</th>
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<tbody>
<tr>
<td>DG4V–3–AC</td>
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<td>DG4V–3–DC</td>
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</tr>
<tr>
<td>DG4V–3S–DC</td>
<td>694272</td>
<td>694323</td>
</tr>
</tbody>
</table>

**Nameplate (see table)**
- 890333 Cover
- 890332 Gasket
- 890330 Strap
- 36212 Screw (2 Req’d)
- 473710 Screw (2 Req’d)
- 890341 Terminal box (W builds)
- 890342 Terminal box (J builds)

**Body (flying lead) shown**
- 507334 Body

**Body (Din)**
- 507731 Body

**Screw (4 Req’d)**
- 02–113349 Screw

**Washer DC (2 Req’d)**
- 458458 Washer DC (2 Req’d)
  (8B builds AC or DC)

**Spring (2 Req’d)**
- Push Pin
  (included in Core Tube S/A see table)

**O” Ring**
- 262342 "O" Ring
  (8B builds AC or DC)
- 262353 “O” Ring
- Core Tube S/A (see table)

**Gasket**
- 890332

**Spool** (see table)
- Core Tube S/A (see table)

**Washer AC (2 Req’d)**
- 617605 Washer AC (2 Req’d)

**Plug**
- 507724 Plug AC
- 507908 Plug DC
- 262342 “O” Ring

**Pin**
- 472553 Pin

**Orfice Plug** (see table)
- 262332 “O” Ring (4 Req’d)

**Coil** (See Table)
- 262392 “O” Ring
- Knob (see table)
- DIN Coil (See Table)

**Available in seal kit only**
- Available in spool accessory kit (see table)
- Available in mounting kit 893236 only
- Available in qty’s. of 25 or more only
- Not available for sale

**Torque**
- 44–62 lbf. ft.(5.0–7.0 N.m)
- 18–25 lbf. in.(2.3–2.8 N.m)
- 22–27 lbf. ft.(30–36 N.m)
- 21–26 lbf. in.(2.5–3.0 N.m)
<table>
<thead>
<tr>
<th>MODEL</th>
<th>KNOB</th>
<th>CORE TUBE S/A</th>
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<tbody>
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<td>DG4V–3–DC</td>
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</tr>
<tr>
<td>DG4V–3S–DC</td>
<td>694272</td>
<td>694323</td>
</tr>
</tbody>
</table>

- **507334 Body (flying lead) shown**
- **507731 Body (Din)**
- **890332 Gasket**
- **DG4V–3**–**AC**
- **DG4V–3**–**AC**
- **DG4V–3**–**AC**
- **DG4V–3**–**DC**
- **DG4V–3**–**DC**
- **DG4V–3S**–**AC**
- **DG4V–3S**–**DC**

- **Nameplate (see table)**
- **890330 Strap**
- **890332 Gasket**
- **36212 Screw (2 Req’d)**
- **473710 Screw (2 Req’d)**
- **576915 Screw (ground)**
- **890341 Terminal box (W builds)**
- **890342 Terminal box (J builds)**
- **508113**
- **508124**
- **890246**
- **694323**

---

**DG4V–3(S)–*C–FJ/FW–60**

Spring centered

Double solenoid valves, spring centered

Transient condition only.

**NOTE**

Refer to other end of valve for common part numbers.

- **472553 Roll Pin**
- **262332 "O" Ring (4 Req’d)**
- **Orifice Plug (see table)**
- **458458 Washer DC**
  
  (8C builds AC or DC)

- **DG4V–3**–**AC**
- **DG4V–3**–**DC**
- **DG4V–3S**–**AC**
- **DG4V–3S**–**DC**

- **262342 "O" Ring**
- **617605 Washer AC**
- **Spring**
- **262353 "O" Ring**
- **Spool (see table)**

- **458458 Washer DC**
  
  (8C builds AC or DC)

- **262332 "O" Ring**
- **Knob (see table)**

- **Available in seal kit only**
- **Available in spool accessory kit (see table)**
- **Available in mounting kit 893236 only**
- **Available in qty’s. of 25 or more only**
- **Not available for sale**
- **Torque 44–62 lbf. ft.(5.0–7.0 N.m)**
- **Torque 18–25 lbf. in.(2.3–2.8 N.m)**
- **Torque 22–27 lbf. ft.(30–36 N.m)**
- **Torque 21–26 lbf. in.(2.5–3.0 N.m)**

---

**Model Diagram:**

- **Model Diagram A B P T**
- **DIN Coil (See Table)**
- **Core Tube S/A (see table)**
- **Knob (see table)**
- **Coil (See Table)**
- **262392 "O" Ring**
- **Torque 21–26 lbf. in.(2.5–3.0 N.m)**
- **Available in seal kit only**
- **Available in spool accessory kit (see table)**
- **Available in mounting kit 893236 only**
- **Available in qty’s. of 25 or more only**
- **Not available for sale**
- **Torque 44–62 lbf. ft.(5.0–7.0 N.m)**
- **Torque 18–25 lbf. in.(2.3–2.8 N.m)**
- **Torque 22–27 lbf. ft.(30–36 N.m)**
- **Torque 21–26 lbf. in.(2.5–3.0 N.m)**
DG4V–3(S)–*N–FJ/FW–60
No spring detented

Double solenoid valves, two position, detented. Transient condition only.

Nameplate (see table)

- 890333 Cover
- 890332 Gasket

- 890330 Strap

- 36212 Screw (2 Req’d)

- 473710 Screw (2 Req’d)

- 890312 Gasket

- 576915 Screw (ground)

- 472553 Roll Pin

- 262332 “O” Ring (4 Req’d)

- Orifice Plug (see table)

- 262392 “O” Ring

- Detent kit

- 262353 “O” Ring

- 262342 “O” Ring

- 02–113349 Screw (4 Req’d)

- 507334 Body (flying lead) shown
- 507731 Body (Din)

**NOTE**
Refer to other end of valve for common part numbers.

- Available in seal kit only
- Available in spool accessory kit (see table)
- Available in mounting kit 893236 only
- Available in qty’s. of 25 or more only
- Not available for sale
- Torque 44–62 lbf. ft.(5.0–7.0 N.m)
- Torque 18–25 lbf. in.(2.3–2.8 N.m)
- Torque 22–27 lbf. ft.(30–36 N.m)
- Torque 21–26 lbf. in.(2.5–3.0 N.m)

<table>
<thead>
<tr>
<th>MODEL</th>
<th>† KNOB</th>
<th>© CORE TUBE S/A</th>
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<tbody>
<tr>
<td>DG4V–3–AC</td>
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<td>508111</td>
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<td>DG4V–3–DC</td>
<td>508113</td>
<td>508124</td>
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<tr>
<td>DG4V–3S–AC</td>
<td>694274</td>
<td>890246</td>
</tr>
<tr>
<td>DG4V–3S–DC</td>
<td>694272</td>
<td>694323</td>
</tr>
</tbody>
</table>
**DG4V–3(S)–A(L)/B(L)–S3/S4–FJ/FW–60**

**Switch option**

LIMIT SWITCH ADJUSTMENT
Remove cover and energize solenoid.
Loosen switch retaining screws and position switch to obtain complete circuit from common (C) thru normally open (NO) contacts. De-energize solenoid and make sure switch returns to normally open (NO) position before re-installing cover.

**NOTE**
Right hand assembly shown, for left hand assembly all parts reversed except body (& spool on "B" builds) and electrical connectors (where applicable).

**Refer to AL/BL–60 for part & kit numbers**

- 474210 Screw (2 Req’d)
- 470708 Washer (2 Req’d)
- 267902 Screw (2 Req’d)
- 989756 Bracket
- 989591 Pad
- 866040 Switch S/A
- 6450 Washer (2 Req’d)
- 1453 Nut (2 Req’d)
- 99755 Push Pin
- 507334 Body

- 472553 Roll Pin
- 262322 "O" Ring (4 Req’d)
- Orifice Plug (see table)

- 458458 Washer DC
- Spring
- 262353 "O" Ring

- 617605 Washer AC
- Push Pin (included in CoreTube S/A)
- Core Tube S/A (see table)

- Available in seal kit only
- Available in spool accessory kit (see table)
- Available in limit switch kit 892951 only
- Available in qty’s. of 25 or more only
- Not available for sale
- Torque 22–27 lbf. ft.(30–36 N.m)
- Torque 21–26 lbf. in.(2.5–3.0 N.m)
BLANK NAMEPLATES (DG4V—3S—60 STANDARD VALVE)

<table>
<thead>
<tr>
<th>MODEL CODE</th>
<th>NAMEPLATE</th>
</tr>
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<tbody>
<tr>
<td>DG4V—3S—*<strong>—</strong>—M—U—**60</td>
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<tr>
<td>DG4V—3S—*<strong>—</strong>—M—F/FP A3/FP A5—**—60</td>
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<td>DG4V—3S—*<strong>—</strong>—M—FPB—**—60</td>
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<td>DG4V—3S—*<strong>—</strong>—M—FPBL—**—60</td>
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</table>

BLANK NAMEPLATES (DG4V—3—60 HIGH PERFORMANCE VALVE)

<table>
<thead>
<tr>
<th>MODEL CODE</th>
<th>NAMEPLATE</th>
</tr>
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<tbody>
<tr>
<td>DG4V—3—<em><strong>—</strong>—M—(S</em>)—U—*7—60</td>
<td>694303</td>
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<tr>
<td>DG4V—3—<em><strong>—</strong>—M—(S</em>)—U—*2/*6—60</td>
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<td>DG4V—3—<em><strong>—</strong>—M—(S</em>)—F/FP A3/FP A5—*7—60</td>
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<tr>
<td>DG4V—3—*<strong>—</strong>—M—FPBL—**—60</td>
<td>865930</td>
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</tbody>
</table>

NOTE
Use blank nameplates when converting to other valve configurations. Model number, assembly number, coil designator, tank pressure, and graphic symbol must be imprinted by person performing conversion.

RESTRICTOR PLUG
Install In P,T,A, Or B As Required

<table>
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<tr>
<th>CODE</th>
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<th>PART #</th>
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<tr>
<td>06</td>
<td>0.60 (0.024)</td>
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<td>08</td>
<td>0.80 (0.030)</td>
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<tr>
<td>10</td>
<td>1.00 (0.040)</td>
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</tr>
<tr>
<td>13</td>
<td>1.30 (0.050)</td>
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<tr>
<td>15</td>
<td>1.50 (0.060)</td>
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<tr>
<td>20</td>
<td>2.00 (0.080)</td>
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<tr>
<td>23</td>
<td>2.30 (0.090)</td>
<td>694348</td>
</tr>
</tbody>
</table>

CAUTION
There is no coil/coretube/part interchangeability between the —60 design and the previous design valves.

- Seal kits
- Seal kit 858996 for (F type coil)
- Seal kit 858995 for (U type coil)
- Seal kit 859049 for (MS spool position monitor switch)

Bolt spacer kit 893225 (spacers required when using —40 design bolts to mount a —60 design valve)

NOTE
For satisfactory service life of these components in industrial applications, use full flow filtration to provide fluid which meets ISO 4406 cleanliness code 20/16 for up to 200 bar (3000 psi) and 18/14 for above 200 bar (3000 psi) or cleaner.

Spool accessory kits
These kits contain the correct centering washers, centering springs, and seal kit to service or convert all valve build types. Some extra parts may exist after service or conversion (seals, spring, etc). Spool not included in kit and must be ordered separately.

- DG4V—3S—AC/DC  893240
  all spools, all builds, except detent builds
- DG4V—3S—AC  893242
  all spools, detent builds only
- DG4V—3S—DC  893243
  all spools, detent builds only
- DG4V—3—AC  893238
  all spools, all builds, except 8B/8C, or detent builds
- DG4V—3—AC/DC  893239
  8B/8C builds only
- DG4V—3—DC  893239
  all spools, detent builds only
- DG4V—3L—AC/DC  893242
  all spools, all builds, except detent
- DG4V—3L—DC  893239
  all spools, low power only
- DG4V—3L—AC  893241
  all spools, all builds, low power only, except 8B/8C
- DG4V—3L—AC  893239
  low power, 8B/8C only

Construction of a typical single solenoid model
### Flow path during spool shift.

<table>
<thead>
<tr>
<th>SPOOL/SPRING CODE</th>
<th>SPOOL #</th>
<th>SPOOL</th>
<th>SPOOL FUNCTIONAL GRAPHICAL SYMBOLS</th>
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<td>OA</td>
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**SPOOL ASSEMBLY NOTES**

Spool orientation unimportant except where indicated.

- These spools to be installed as shown in above table with left hand end towards “A” port (reverse 180° for all “AL” builds).
## COILS (DG4V–3S–60 STANDARD VALVE)

<table>
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<tr>
<th>CODE</th>
<th>VOLTS AC 50 HZ 60 HZ</th>
<th>FLYING LEAD COIL</th>
<th>DIN COIL 02–111630 02–111255 02–111541 02–111542 02–101725 02–111258 02–101726 02–111545 02–101728 02–111262</th>
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<tr>
<td>D</td>
<td>220</td>
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<tr>
<td>EM</td>
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## COILS (DG4V–3–60 HIGH PERFORMANCE VALVE)

<table>
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<tr>
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<th>VOLTS AC 50 HZ 60 HZ</th>
<th>FLYING LEAD COIL 865853 865835</th>
<th>DIN COIL 508166 507825 866458 866466 508169 507833 698563 698562 508170 507834</th>
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<td>865836</td>
<td>865856</td>
</tr>
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</table>

## COILS (DG4V–3(S)–60 STANDARD/HIGH PERFORMANCE VALVE)

* Available For High Performance Valve Only

| CODE | VOLTS DC 50 HZ 60 HZ | FLYING LEAD COIL 508172 507847 508175 507855 508173 507848 508174 507852 865863 865881 865864 865882 865865 865883 865839 865637 865866 865884 865867 865885 865868 865886 865640 865638 865869 865887 |
|------|----------------------|------------------------|-----------------|
| G    | 12                   | 508172                 | 507847          |
| GL*  | 12                   | 508175                 | 507855          |
| H    | 24                   | 508173                 | 507848          |
| HL*  | 24                   | 508174                 | 507852          |
| DK   | 32                   | 865863                 | 865881          |
| OJ   | 48                   | 865864                 | 865882          |
| DM   | 80                   | 865865                 | 865883          |
| DJ   | 98                   | 865839                 | 865637          |
| P    | 110                  | 865866                 | 865884          |
| DP   | 125                  | 865867                 | 865885          |
| Z    | 180                  | 865868                 | 865886          |
| EJ   | 196                  | 865640                 | 865638          |
| S    | 220                  | 865869                 | 865887          |

### CAUTION

Electrical power must be disconnected before removing/replacing terminal block, receptacle plug, indicator lights or limit switch.

---

## DG4V–3(S)–FTJ/FTW–60

**Terminal block.**

![DG4V–3(S)–FTJ/FTW–60 Terminal block](image)

### NOTE

Refer to valve model drawing for balance of part numbers.

---

## DG4V–3(S)–FTJL/FTWL–60

**Terminal block with lights.**

![DG4V–3(S)–FTJL/FTWL–60 Terminal block with lights](image)

### NOTE

Refer to valve model drawing for balance of part numbers.
Terminal block with male receptacle

DG4V–3(S)–A/B–FPA3W–60

- 2 Lead (black) on terminal block
- 3 Lead (white) on terminal block
- 1 green lead (ground) on valve body
- 3 white lead to terminal block

DG4V–3(S)–A/B–FPA5W–60

- 5 Lead (black) on terminal block
- 1 Lead (white) on terminal block
- 3 green lead (ground) on valve body
- 2 lead capped

Accessory kits

- Terminal box accessory kit 893236 (contains all parts for mounting box)
- Terminal strip kit 890345 (contains all attaching hardware)
- Limit switch kit 892951 (contains all minor parts for servicing limit switch)

NOTE

Light kits cannot be installed without a terminal strip.

Light kits (terminal strip not included)

<table>
<thead>
<tr>
<th>VOLTAGE</th>
<th>KIT #</th>
</tr>
</thead>
<tbody>
<tr>
<td>12VDC</td>
<td>893231</td>
</tr>
<tr>
<td>24 VDC</td>
<td>893232</td>
</tr>
<tr>
<td>98 VDC</td>
<td>893233</td>
</tr>
<tr>
<td>120 VAC</td>
<td>893234</td>
</tr>
<tr>
<td>240 VAC</td>
<td>893235</td>
</tr>
</tbody>
</table>

For use on valves with terminal strip installed.

Light kits (terminal strip included)

<table>
<thead>
<tr>
<th>VOLTAGE</th>
<th>KIT #</th>
</tr>
</thead>
<tbody>
<tr>
<td>12VDC</td>
<td>893226</td>
</tr>
<tr>
<td>24 VDC</td>
<td>893227</td>
</tr>
<tr>
<td>98 VDC</td>
<td>893228</td>
</tr>
<tr>
<td>120 VAC</td>
<td>893229</td>
</tr>
<tr>
<td>240 VAC</td>
<td>893230</td>
</tr>
</tbody>
</table>

For use on valves without terminal strip installed.

NOTE

Refer to valve model drawing for balance of part numbers.

CAUTION

Electrical power must be disconnected before removing/replacing terminal block, receptacle plug, indicator lights or limit switch.

DG4V–3(S)–C/N–FPA5W–60

- 2 Lead (red)
- 4 Lead (orange)
- Common (black)
- S3 Lead red for (NO)
- S4 Lead white for (NC)

Terminal block with male receptacle

- 1 white lead to terminal block
- 5 black lead to terminal block
- 4 orange lead to terminal block
- 2 red lead to terminal block

02–126783 Male receptacle

02–126783 Male receptacle

02–126782 Male receptacle

02–126783 Male receptacle
DG4V–3(S)–FPB–60
Instaplug male/female receptacle

DG4V–3(S)–FPBL–60
Instaplug male/female receptacle with lights

<table>
<thead>
<tr>
<th>VOLTAGE RANGE</th>
<th>LIGHT KIT</th>
</tr>
</thead>
<tbody>
<tr>
<td>12V AC/DC</td>
<td>926499</td>
</tr>
<tr>
<td>24V AC/DC</td>
<td>926431</td>
</tr>
<tr>
<td>115V AC/DC</td>
<td>926432</td>
</tr>
<tr>
<td>230V AC/DC</td>
<td>926458</td>
</tr>
</tbody>
</table>

CAUTION
Electrical power must be disconnected before removing/replacing terminal block, receptacle plug, indicator lights or limit switch.

NOTE
Insta–plug part numbers and assembly/disassembly sequence are the same for single and double solenoid valves.

(PB) Insta–plug kit 893237
This kit is required to add the “PB” option to both standard and high performance valves. Kit contains all parts to convert a standard terminal box equipped valve to the Insta–plug (PB) version.
**Model Code**

<table>
<thead>
<tr>
<th>DG4V - 3(S) - *** (L) - * - (V) M - (S*) *** ** * ** (L) - * 60 - (EN*) - (P* - A* - B* - T*)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>4</td>
</tr>
</tbody>
</table>

**2 Standard/High performance**

3 — High performance 80 l/min (21 gpm) at 350 bar (5075 psi)

3S — Standard performance 40 l/min (10.5 gpm) at 350 bar (5075 psi)

**3 Spool type** (see table)

**4 Spool/Spring arrangement**

A — Spring offset, single solenoid

AL — Same as A but left hand build

B — Spring centered, single solenoid

BL — Same as B but left hand build

C — Spring centered

F — Spring offset, shift to center

N — No spring detented

**5 Manual override options**

Blank — Plain override solenoid end only

H — Waterproof override solenoid end only

H2 — Waterproof override both ends of single solenoid

P2 — Plain override both ends of single solenoid

Y — Lockable manual override solenoid ends only

Z — No overrides in either end

**6 Solenoid energisation identity**

Blank — Standard arrangement for ANSI B33 9 (energise solenoid A for flow A to P port)

V — Solenoid A at port A end and/or solenoid B at port B end, regardless of spool type.

(All 8 spool valves are V code)

**8 Spool indicator switch**

Available on high performance models, DG4V–3, only.

Omit when not required.

For DG4V–3—*A(L)–(Z)–(V)M–S*–U valves having type 2 and 22 spools with proximity type DC switch:

S1 — Switch, normally open.

S2 — Switch, normally closed.

For DG4V–3—*A(L)–(Z)–(V)M–S*–FP A5W valves having mechanical type AC switch, wired to 5 pin receptacle:

S3 — Switch, wired normally open.

S4 — Switch, wired normally closed.

For DG4V–3—*A(L)–(Z)–(V)M–S5–F(T)W/J valves having mechanical type AC switch:

S5 — Switch, free leads

**9 Coil type**

U — ISO 4400

F — Flying lead

SP1 — Single 6,3 series spade to IEC 760

SP2 — Dual 6,3 series spade to IEC 760

X1 — Flameproof solenoids

TP EEEx–d–11B–T4

X2 — Hazardous location solenoids to meet UL & CSA approval

X3 — Special protection solenoids to BASEEFA standard SFA009:1972, protection class Ex–S–11–T4

**10 Electrical connections** (F type coil only) omit if not required

T — Wired terminal block

PA — Instaplug male receptacle only

PB — Instaplug male & female receptacle

PA3 — Three pin connector

PA5 — Five pin connector

**11 Housing (F type coils only)**

W — 1/2 NPT thread wiring housing

J — 20 mm thread wiring housing

**12 Solenoid indicator lights** (omit if not required)

Not available on PA, U, SP1, & SP2 builds

**13 Coil identification** (see table)

(*L coils not available on DG4V–3S builds)

**14 Tank pressure rating**

Standard performance DG4V–3S

5 — 100 Bar (72 psi)

High performance DG4V–3

2 — 10 Bar (145 psi)

4 — 70 Bar (1015 psi)

6 — 160 Bar (2320 psi) AC valves

7 — 210 Bar (3045 psi) DC valves

**15 Design**

**16 Special modifications** (omit if not required)

**17 Port orifice plugs** (see table) omit if not required

**Flag**

Electrical options & features