DG4V-3(S)-***(L)-*-(V)-M-(S*)******(L)-* 60
Directional Control Valve
350 Bar (5075psi) P, A, & B Ports
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).

MODEL  † KNOB  ✅ CORE TUBE S/A
DG4V–3–AC  508113  508111
DG4V–3–DC  508113  508124
DG4V–3S–AC  694274  890246
DG4V–3S–DC  694272  694323

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)

- 890332 Gasket

- 576915 Screw (ground)

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

- 472553 Pin
- 617605 Washer AC (2 Req’d)
- Orifice Plug (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)
<table>
<thead>
<tr>
<th>MODEL</th>
<th>KNOB</th>
<th>CORE TUBE S/A</th>
</tr>
</thead>
<tbody>
<tr>
<td>DG4V–3–AC</td>
<td>508113</td>
<td>508111</td>
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<td>DG4V–3–DC</td>
<td>508113</td>
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<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>

**Nameplate** (see table)

- 890330 Strap
- 473710 Screw (2 Req’d)
- 890332 Gasket
- 890333 Cover
- 36212 Screw (2 Req’d)
- 576915 Screw (ground)
- 507334 Body (flying lead) shown
- 507731 Body (Din)

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

- 02–113349 Screw (4 Req’d)
- 890341 Terminal box (W builds)
- 890342 Terminal box (J builds)

**DG4V–3(S).–C.–FJ/FW–60**
Spring centered

- Double solenoid valves, spring centered
- Transient condition only.

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

**DIN Coil (See Table)**

- 617605 Washer AC
- Spring
- 262353 “O” Ring
- 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 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.

- 890330 Strap
- 473710 Screw (2 Req’d)
- 890332 Gasket
- 890341 Terminal box (W builds)
- 890342 Terminal box (J builds)
- 576915 Screw (ground)
- 472553 Roll Pin
- 262332 "O" Ring (4 Req’d)
- Orifice Plug (see table)
- 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)

MODEL | ‡ KNOB | ‡ CORE TUBE S/A
---|---|---
DG4V–3–AC | 508113 | 508111
DG4V–3–DC | 508113 | 508124
DG4V–3S–AC | 694274 | 890246
DG4V–3S–DC | 694272 | 694323
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.

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

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

DG4V–3–AC  508113  508111
DG4V–3–DC  508113  508124
DG4V–3S–AC  694274  890246
DG4V–3S–DC  694272  694323
BLANK NAMEPLATES (DG4V–3S–60 STANDARD VALVE)

<table>
<thead>
<tr>
<th>MODEL CODE</th>
<th>NAMEPLATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>DG4V–3S–*<strong>–</strong>–M–U–**60</td>
<td>694302</td>
</tr>
<tr>
<td>DG4V–3S–*<strong>–</strong>–M–F/FP A3/FP A5–**–60</td>
<td>694386</td>
</tr>
<tr>
<td>DG4V–3S–*<strong>–</strong>–M–FPB–**–60</td>
<td>694363</td>
</tr>
<tr>
<td>DG4V–3S–*<strong>–</strong>–M–FPBL–**–60</td>
<td>694362</td>
</tr>
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</table>

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

<table>
<thead>
<tr>
<th>MODEL CODE</th>
<th>NAMEPLATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>DG4V–3–<em><strong>–</strong>–M–(S</em>)–U–*7–60</td>
<td>694303</td>
</tr>
<tr>
<td>DG4V–3–<em><strong>–</strong>–M–(S</em>)–U–*2/6–60</td>
<td>694451</td>
</tr>
<tr>
<td>DG4V–3–*<strong>–</strong>–M–F/FP A3/FP A5–*7–60</td>
<td>694387</td>
</tr>
<tr>
<td>DG4V–3–*<strong>–</strong>–M–FPB–**–60</td>
<td>865929</td>
</tr>
<tr>
<td>DG4V–3–*<strong>–</strong>–M–FPBL–**–60</td>
<td>865930</td>
</tr>
</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 PTA, Or B As Required

<table>
<thead>
<tr>
<th>CODE</th>
<th>ORIFICE DIA.</th>
<th>PART #</th>
</tr>
</thead>
<tbody>
<tr>
<td>03</td>
<td>0.30 (0.012)</td>
<td>694341</td>
</tr>
<tr>
<td>06</td>
<td>0.60 (0.024)</td>
<td>694342</td>
</tr>
<tr>
<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>
<td>694345</td>
</tr>
<tr>
<td>15</td>
<td>1.50 (0.060)</td>
<td>694346</td>
</tr>
<tr>
<td>20</td>
<td>2.00 (0.080)</td>
<td>694347</td>
</tr>
<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–AC/DC 893242
  all spools, detent builds only
- DG4V–3–DC 893239
  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
<table>
<thead>
<tr>
<th>SPOOL/SPRING CODE</th>
<th>SPOOL #</th>
<th>SPOOL</th>
<th>SPOOL FUNCTIONAL GRAPHIC SYMBOLS</th>
</tr>
</thead>
<tbody>
<tr>
<td>◆ OA(L)</td>
<td>617498</td>
<td><img src="image" alt="OA" /></td>
<td>OAL <img src="image" alt="OAL" /></td>
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<tr>
<td>OB(L)/OC</td>
<td>617121</td>
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<td>OBL <img src="image" alt="OBL" /></td>
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<tr>
<td>◆ 2A(L)</td>
<td>617120</td>
<td><img src="image" alt="2A" /></td>
<td>2AL <img src="image" alt="2AL" /></td>
</tr>
<tr>
<td>2B(L)/2C</td>
<td>617118</td>
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<td>2BL <img src="image" alt="2BL" /></td>
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<tr>
<td>6B(L)/6C</td>
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<tr>
<td>7B(L)/7C</td>
<td>617125</td>
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<tr>
<td>8B(L)/8C</td>
<td>458950</td>
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<tr>
<td>◆ 22A(L)</td>
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<td>617131</td>
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<td>52BL <img src="image" alt="52BL" /></td>
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<td>◆ 56BL/56C</td>
<td>617132</td>
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</tr>
<tr>
<td>66B(L)/66C</td>
<td>698745</td>
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<td>◆ 521B</td>
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<td>617132</td>
<td><img src="image" alt="561B" /></td>
<td><img src="image" alt="561B" /></td>
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</tbody>
</table>

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>
<thead>
<tr>
<th>CODE</th>
<th>VOLTS AC</th>
<th>FLYING LEAD COIL</th>
<th>DIN COIL</th>
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<tr>
<td>NN</td>
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<td>02–111630</td>
<td>02–111255</td>
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<tr>
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<td>24 24</td>
<td>02–111631</td>
<td>02–111541</td>
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<tr>
<td>K</td>
<td>48 48</td>
<td>02–111633</td>
<td>02–111542</td>
</tr>
<tr>
<td>A</td>
<td>110</td>
<td>02–101730</td>
<td>02–101725</td>
</tr>
<tr>
<td>EK</td>
<td>115</td>
<td>02–111635</td>
<td>02–111258</td>
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<tr>
<td>B</td>
<td>110 120</td>
<td>02–101731</td>
<td>02–101726</td>
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<tr>
<td>DN</td>
<td>220</td>
<td>02–111638</td>
<td>02–111545</td>
</tr>
<tr>
<td>D</td>
<td>220 240</td>
<td>02–101733</td>
<td>02–101728</td>
</tr>
<tr>
<td>EM</td>
<td>440</td>
<td>02–111643</td>
<td>02–111262</td>
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### COILS (DG4V–3–60 HIGH PERFORMANCE VALVE)

<table>
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<th>DIN COIL</th>
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<tbody>
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<tr>
<td>N</td>
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</tr>
<tr>
<td>K</td>
<td>48 48</td>
<td>508166</td>
<td>507832</td>
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<tr>
<td>A</td>
<td>110</td>
<td>866458</td>
<td>866456</td>
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<tr>
<td>EK</td>
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<td>866458</td>
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</tr>
<tr>
<td>B</td>
<td>110 120</td>
<td>508169</td>
<td>507833</td>
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<tr>
<td>BL</td>
<td>110 120</td>
<td>698563</td>
<td>698562</td>
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<tr>
<td>DN</td>
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<tr>
<td>D</td>
<td>220 240</td>
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### COILS (DG4V–3(S)–60 STANDARD/HIGH PERFORMANCE VALVE)

* Available For High Performance Valve Only

<table>
<thead>
<tr>
<th>CODE</th>
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<tbody>
<tr>
<td>G</td>
<td>12</td>
<td>508172</td>
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<td>508175</td>
<td>507855</td>
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<tr>
<td>H</td>
<td>24</td>
<td>508173</td>
<td>507848</td>
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<tr>
<td>HL*</td>
<td>24</td>
<td>508174</td>
<td>507852</td>
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<tr>
<td>DK</td>
<td>32</td>
<td>865863</td>
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<td>OJ</td>
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<td>865864</td>
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<td>DM</td>
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<td>EJ</td>
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</tr>
<tr>
<td>S</td>
<td>220</td>
<td>865869</td>
<td>865887</td>
</tr>
</tbody>
</table>

**CAUTION**

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

**NOTE**

Refer to valve model drawing for balance of part numbers.

---

### DG4V–3(S)–FTJ/FTW–60 Terminal block.

* 890345 Terminal block S/A

---

### DG4V–3(S)–FTJL/FTWL–60 Terminal block with lights.

* 890345 Terminal block S/A

**Light kit (see table)**

### NOTE

Refer to valve model drawing for balance of part numbers.
DG4V–3(S)–A/B–FPA5W–60
Terminal block with male receptacle

890346 Warning tag

* 890345
Terminal block
Solenoid lead

02–126782 Male receptacle

2 Lead (black)
3 Lead (white)

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

SG4V–3(S)–A/B–FPA5W–60
Terminal block with male receptacle

890347 Warning tag

* 890345
Terminal block
Solenoid lead

02–126783 Male receptacle

5 Lead (black)
1 Lead (white)

1 white lead to terminal block
5 black lead to terminal block
4 lead capped

Accessory kits

☐ Terminal box accessory kit 893236 (contains all parts for mounting box)

☆ Terminal strip kit 890345 (includes 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.
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

DG4V - 3(S) - *** (L) - * (V) M - (S*) *** **** * ** (L) - * 60 - (EN*) - (P*-A*-B*-T*)

1 D — Directional control valve
   G — Subplate mounted
   4 — Solenoid operated
   V — 350 Bar (5075 psi) P, A, & B ports

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 B38.9 (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)

7 Flag
   Electrical options & features

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—S*—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