Multi—Pressure Relief Valves

(F3)—C/G/S/T—06/10**(V)—DG—8BL**—(V)M—(S)***(L)*****—40/50
NOTE: Lubricate all parts & seals with a thin coat of oil at assembly.

DG4V3(S)–8BL–60 Pilot valve (Refer to parts drawing for detailed information).

255698 Bolt kit (Torque 4.5–5.6 N.m.)
40–50 lb.in. (Pilot valve to adapter plate mounting) Not shown

255651 Bolt kit (Torque 14.9–20.3 N.m.)
11–15 lb.ft. (Adapter plate to cover mounting)

422814 Adapter plate

▲ 113000 Plug (4 Req’d)
▲ 262334 “O”Ring (4 Req’d)
▲ 1649 Ball (2 Req’d) C*–06 only

Cover (see table)

Head 1 (Inoperative) See sectional view

290057 Piston (2 Req’d)

Cover spring (see table)
▲ 262332 “O”Ring (2 Req’d)
▲ 197570 BU-Ring (2 Req’d)

370701 Plunger (2 Req’d)

※▲ 292230 ADJ. screw (2 Req’d)
※▲ 1485 Locknut (2 Req’d)
※ 283949 Lockscrew (2 Req’d)
※& 64520 Washer (As req’d)
※& 326317 Washer (As req’d)

※ NOTE
Coat 292230 ADJ. screw, 283949 lock-screw and 1485 locknut with oil prior to assembly.

□ NOTE
These parts used at final test to obtain correct pressure range.

<table>
<thead>
<tr>
<th>Model</th>
<th>Seat</th>
<th>Hydrocone</th>
<th>Lo–Vent spring</th>
<th>Hi–Vent spring</th>
<th>Cover</th>
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<tbody>
<tr>
<td>C*–06</td>
<td>343153</td>
<td>343154</td>
<td>2077</td>
<td>184458</td>
<td>370664</td>
</tr>
<tr>
<td>C*–10</td>
<td>283954</td>
<td>283952</td>
<td>291822</td>
<td>291821</td>
<td>370669</td>
</tr>
</tbody>
</table>

NOTE
Use either a Lo–Vent or Hi–Vent spring. Do not use both. (See model code)

WARNING
Use only a DG4V3(S)–8BL–60 directional valve as a pilot for this relief valve. Use of a different pilot can block relief valve, causing excessive system pressure.

263497 “O”Ring (2 Req’d)
329463 Plug (3 Req’d)
Torque 52.8–58.3 N.m.
(39–43 lb. ft.)

294656 Restrictor plug (2 Req’d) C*–10 only
285601 Seat (2 Req’d) Assemble cross hole facing up

▲ 113000 Plug (C*–06 5 Req’d)
(C*–10 7 Req’d)
370839 Warning plate

▲ 226816 Rollpin
Screw (see table)

▲ 227405 Screw (4 Req’d)

Hydrocone (see table)
Seat (see table)

▲ 262361 “O”Ring (C*–06)
262367 “O”Ring (C*–10)

NOTE
For satisfactory service life of these components in industrial applications, use full flow filtration to provide fluid which meets ISO cleanliness code 18/15 or cleaner. OFP, OFR, and OFRS series filters are recommended.
**Sectional “E” vent head 2 or 3**

- 370701 Plunger
- 218750 Plug

- 197570 BU-Ring
- 262332 “O”Ring

- 329463 Plug
  Torque 52.8—58.3 Nm.
  (39—43 lb. ft.)

- 263497 “O”Ring

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**Sectional head “1” inoperative**

- 329463 Plug
  Torque 52.8—58.3 Nm.
  (39—43 lb. ft.)

- 263497 “O”Ring

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### Model Screw (4 Req’d) | Torque | Lock washer (4 Req’d)
--- | --- | ---
C*—06 | 1036 | 11—15 | 14.9—20.3 | 68907
C*—10 | 1076 | 35—43 | 47.5—58.3 | 68909

### Model Cover spring | Pressure range psi (bar)
--- | ---
C*—**—B | 2280 | 125—1000 (8.5—70)
C*—**—C | 583937 | 500—2000 (35—140)
C*—**—F | 2281 | 1500—3000 (105—210)

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- ▲ Part Kit
  1485 944064
  1649 944067
  AX—36212 944053
  64520 944068
  113000 944055
  160571 944069
  218750 944070
  226816 944071
  227405 944074
  292230 944072
  326317 944073
  329463 944041
  343740 944038

Parts with ▲ available only in kits of 25. Reference kit on parts order.

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### Model Body
--- | —6 | —10
CG | 580456 | 581703
CS | 581701 | 580430
CT | 590348 | 590300

- ▲ CS/CT body (see table)
  CT shown

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- ▲ 343740 Plug
  Torque 14.9—16.5 Nm.
  (133—147 lb. in.)

- ▲ 263497 “O”Ring

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- ▲ Included in —06 F3 seal kit 919684
- ▲ Included in —10 F3 seal kit 919685
- ♦ Available only in kits of 25.
- ♦ Not available for sale
### Model Code

<table>
<thead>
<tr>
<th>(F3) - C* ** - <em><em>(s)(V) - DG - <strong>(L)</strong> - (V)M - (S</em>) - ** - ** - <em>(L) - ** - *** - ** - EN</em></em></th>
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<td><strong>21</strong> Design</td>
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<td><strong>22</strong> Special modifications (omit if not required)</td>
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1. Seals for mineral oil & fire resistant fluids
2. Relief valve connections
3. Valve size
4. Pressure range
5. High vent
6. Directional valve
7. Spool type & spring arrangement
8. Left hand build
9. Manual override options (included in pilot valve model code)

**Blank** — Plain override solenoid ends only

**H** — Waterproof override solenoid ends only

**H2** — Waterproof override both ends of single solenoid

**M** — Serviceable manual overrides in solenoid ends only

**P2** — Plain override both ends of single solenoid

**Y** — Lockable manual overrides solenoid ends only

**Z** — No overrides in either end

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10. Solenoid energization identity

**Blank** — Standard arrangement for ANSI B93.1 (energise solenoid A for flow P to A port)

**V** — Solenoid identification determined by position of solenoid. (Solenoid A at port A and/or solenoid B at port B end. (All 4 & 8 spools are always V code)

11. Flag symbol heading electrical options & features

12. Spool position monitoring switch (tank pressure rating 10 bar only)

**S1** — Switch, normally open, U coils only

**S2** — Switch, normally closed, U coils only

**S3** — Switch, wired normally open, P*

**S4** — Switch, wired normally closed, P*

**S5** — Switch, free leads, FW & FJ only

13. Coil type

**U** — ISO 4400

**P** — Plug in coil

**F** — Flying lead

**SP1** — Single 6.3 series spade to IEC 760

**SP2** — Dual 6.3 series spade to IEC 760

14. 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 & terminal block

**PA5** — Five pin connector & terminal block

15. Housing (F type coils only)

**W** — 1/2 NPT thread wiring housing

**J** — 20 mm thread wiring housing

16. Electrical options

1 — ISO with fitted plug, U type coils only

7 — Surge damper, P type coils only

9 — Rectifier (fast type) P type coils only

12 — Rectifier (slow type) P type coils only

17. Solenoid indicator lights (F build only) To be used with T terminal block models. (Omit if not required)

18. Coil identification

19. Pilot valve code (tank pressure rating)

2 — 10 bar (145 psi) use with switch models S*

5 — 100 bar (1450 psi) for all other models

20. Pilot valve port orifices

21. Design

40 — DG4V3S—60 Standard pilot valve

50 — DG4V3—60 High performance pilot valve

22. Special modifications (omit if not required)

7 Thru 20 included in pilot valve model code