



Solenoid Controlled Pilot Operated Relief Valves

(F3)–C/G/S/T5–(H)–10***(V)**(V)–M–(S*)***** (L)*****–100/110–EN**

*** Note**

On CG5-(H)10***C-*-100/110 dual solenoid models, pilot valve & cover S/A are rotated 90 ° clockwise from body. Refer to pilot valve drawing for parts breakdown.

* Pilot Valve (See Table)
(DG4V-3(S)-*C-60 Shown)

▲ 232332 'O'Ring (4 Req'd)

■ 329463 Restriction plug

■▲ 263497 'O'Ring

■ 329463 Plug
Torque 53–58 N.m.
(39–43 lb. ft.)

■ 285601 Seat

Assemble 285601 seat with cross hole facing up as shown.

■▲ 262367 'O'Ring

Spring (See Table)

283952 Piston

Seat (See Table)

Sleeve ('H' High Flow Models Only)
(See Table)

696892 Bolt Kit (Includes 4 Bolts)

Torque 5.6 N.m. (50 lb. in.) Maximum

68905 Washer (4 Req'd)

1074 Screw (4 Req'd)
Torque 54.2–67.7 N.m. (40–50 lb. ft.)

■ Cover (See Table)

■ 343704 Plug &
▲ 263494 'O'Ring (See Table)

■ 398071 Plug &
Y 263492 'O'Ring (See Table)

⊕ ◆ 292230 Screw

■ 326317 Shim
(As req'd to obtain
proper adj. range)

■ 1485 Locknut

⊕ ◆ 283949 Retainer

■ 64520 Washer

■ 283948 Plunger

▲ 262332 'O'Ring

■ Washer (See Table)

■ 422849 Spacer

■ Cover Spring
(See Table)

■ 290057 Piston

MODEL	SEAT	SLEEVE
C*5-10	283954	—
C*5-H10	587996	400730

MODEL	■ COVER S/A
C*5-(H)100A/F-B(V)-100/110	942456
C*5-(H)100A/F-C(V)-100/110	942457
C*5-(H)100A/F-F(V)-100/110	942458
C*5-(H)101A-B(V)-100/110	942459
C*5-(H)102A-B(V)-100/110	
C*5-(H)10*C-B(V)-100/110	
C*5-(H)101A-C(V)-100/110	942460
C*5-(H)102A-C(V)-100/110	
C*5-(H)10*C-C(V)-100/110	
C*5-(H)101A-F(V)-100/110	942461
C*5-(H)102A-F(V)-100/110	
C*5-(H)10*C-F(V)-100/110	

▲ 263494 'O'Ring

343740 Plug
Torque 15.0–16.6 N.m.
(133–147 lb. in.)

Diagram Plate
(See Table)

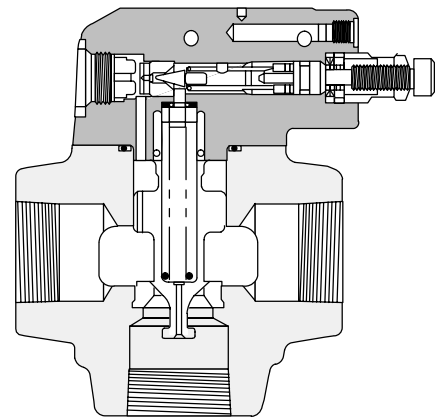
AX-36212 Screw
(4 Req'd)

◆ Body (See Table)

MODEL	◆ BODY
CT5-10**-*-100/110	590300
CS5-(H)10**-*-100/110	580430

MODEL	DIAGRAM PLATE	* PILOT VALVE
C*5 -(H)100A(P) -* (V) -M-***-100	422864	DG4V -3S -0BL -M***-60
C*5 -(H)100A(P) -* (V) -M-***-110		DG4V -3-0BL -M***-60
C*5 -(H)101A(P) -* (V) -M-***-100	422865	DG4V -3S -2AL -M***-60
C*5 -(H)101A(P) -* (V) -M-***-110		DG4V -3-2AL -M***-60
C*5 -(H)102A(P) -* (V) -M-***-100	423814	DG4V -3S -2BL -M***-60
C*5 -(H)102A(P) -* (V) -M-***-110		DG4V -3-2BL -M***-60
C*5 -(H)100C -* (V) -M-***-100	422862	DG4V -3S -0C -M***-60
C*5 -(H)100C -* (V) -M-***-110		DG4V -3-0C -M***-60
C*5 -(H)102C -* (V) -M-***-100	422863	DG4V -3S -2C -M***-60
C*5 -(H)102C -* (V) -M-***-110		DG4V -3-2C -M***-60
C*5 -(H)100F(P) -* (V) -M-***-100	_____	DG4V -3S -0FL -M***-60
C*5 -(H)100F(P) -* (V) -M-***-110		DG4V -3-0FL -M***-60

* Refer to pilot valve drawing for parts breakdown.



Relief valve sectional view
without pilot valve

MODEL	■ COVER	■ PLUG/ 'O'RING (2 REQ 'D)	■ PLUG/ 'O'RING
C*5 -(H)100A -100/110	422852	_____	_____
C*5 -(H)101A -100/110	424204	343740/ ▲ 263494	398071/ ▲ 263492
C*5 -(H)102A -100/110			
C*5 -(H)10*C -100/110			

MODEL	■ WASHER	■ COVER SPRING	SPRING
C*5 -10** -B -100/110	_____	2280	291822
C*5 -H10** -BV -100/110			291821
C*5 -10** -C -100/110	233110	583937	291822
C*5 -H10** -CV -100/110			291821
C*5 -10** -F -100/110	_____	2281	291822
C*5 -H10** -FV -100/110			291821

■ Included In Cover S/A

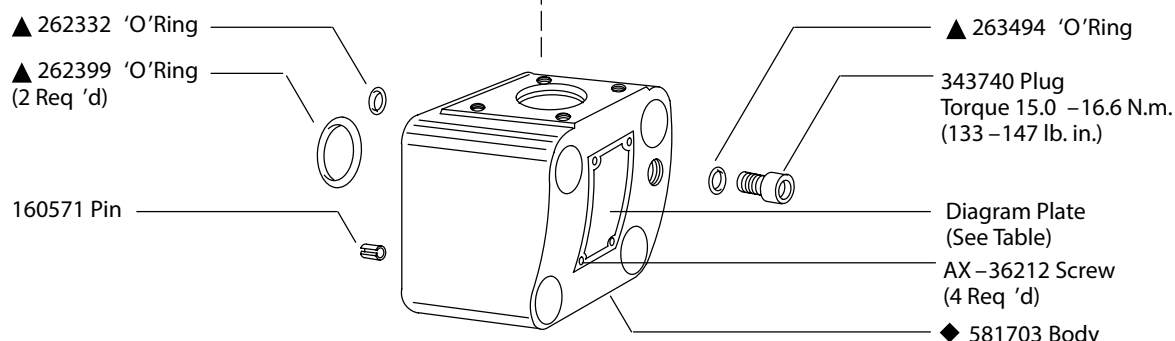
▲ Included In F3 Seal Kit 696930
(includes pilot valve seals)

⊕ Lubricate With Oil Before Assembly

◆ Not Available For Sale

Note

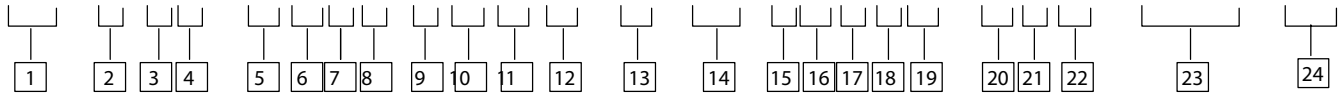
Parts Prefixed With A Symbol Available
Only In Kits.



CG5 -(H)10** -* -100/110

Model Code

(F3) - C - * 5 - (H) ** * *- * (V) - (V) - M - (S*) - * ** ** (L) - * ***- 100/110- EN****



- | | | |
|---|---|---|
| <p>1 Seals for mineral oil & fire resistant fluids</p> <p>2 Relief valve</p> <p>3 Connections</p> <p>G – Subplate mounting
S – Straight threads
T – NPTF threads</p> <p>4 Solenoid controlled</p> <p>5 High flow
Omit for standard models</p> <p>6 Valve size</p> <p>10 – 1–1/4”–1.6250 straight thread or 1–1/4” NPTF</p> <p>7 Pilot spool function</p> <p>0,1, or 2 Indicates venting condition</p> <p>8 Pilot spool spring arrangement</p> <p>A – Spring offset
C – Spring centered
F – Spring centered, shift to center</p> <p>9 Pressure range</p> <p>B – 125–1000 psi
C – 500–2000 psi
F – 1500–3000 psi</p> <p>10 High vent (Req’d for high flow models)</p> <p>Blank – Omit for low vent models</p> | <p>11 Manual override options (included in pilot valve model code)</p> <p>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</p> <p>12 Solenoid energization identity</p> <p>Blank – Standard arrangement for ANSI B93.9 (energise solenoid A for flow P to A port)
V – Solenoid identification determined by position of solenoid. (Solenoid A at port A end and/or solenoid B at port B end. (All 4 & 8 spools are always V code)</p> <p>13 Flag symbol heading electrical options & features</p> <p>14 Spool position monitoring switch (tank pressure rating 10 bar only)</p> <p>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</p> <p>15 Coil type</p> <p>U – ISO 4400
F – Flying lead
SP1 – Single 6,3 series spade to IEC 760
SP2 – Dual 6,3 series spade to IEC 760</p> | <p>16 Electrical connections (F type coil only) omit if not required</p> <p>T – Wired terminal block
PA – Instaplug male receptacle only
PB – Instaplug male & female receptacle
PA3 – Three pin connector
PA5 – Five pin connector</p> <p>17 Housing (F type coils only)</p> <p>W – 1/2 NPT thread wiring housing
J – 20 mm thread wiring housing</p> <p>18 Electrical options</p> <p>1 – ISO with fitted plug, U type coils only
6 – ISO with fitted plug, with lights, U type coils only</p> <p>19 Solenoid indicator lights (F build only) To be used with T terminal block models. (Omit if not required)</p> <p>20 Coil identification</p> <p>21 Pilot valve code (tank pressure rating)</p> <p>2 – 10 bar (145 psi) use with switch models S*
5 – 100 bar (1450 psi) DG4V –3S –60
6 – 160 bar (2300 psi) DG4V –3–60
7 – 210 bar (3000 psi) DG4V –3–60</p> <p>22 Pilot valve port orifices</p> <p>23 Design</p> <p>100 – DG4V3S –60
Standard pilot valve
110 – DG4V3 –60
High performance pilot valve</p> <p>24 Special modifications (omit if not required)</p> |
|---|---|---|

11 Thru 22 included in pilot valve model code

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