Parts Manual

Vickers® by Danfoss

Directional Controls

AX459485632160en-000101



Directional Control Valve

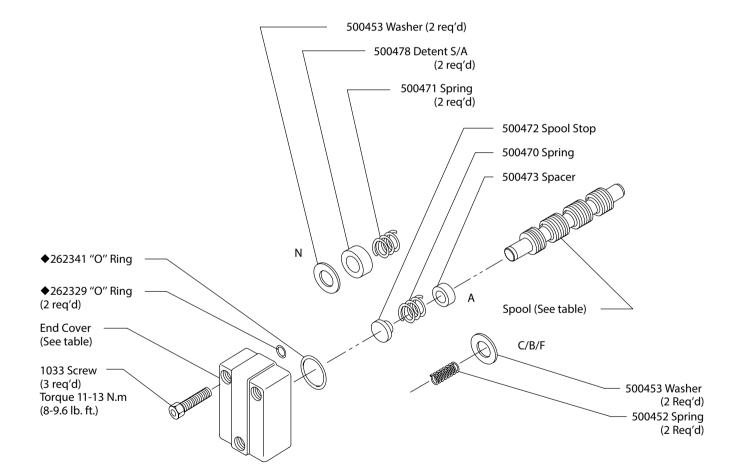
(F3) - DG5S4-02-**(L)-30

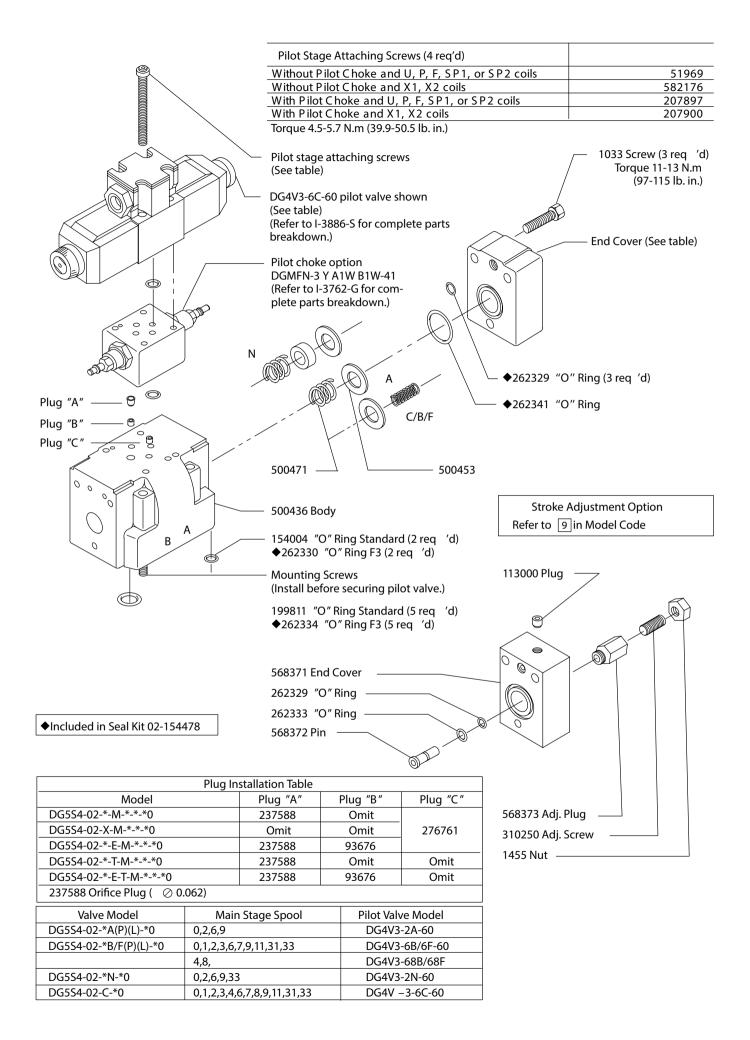
Spool/Spring Arrangement				
Spool Type	А	B,C,F	N	
0	500438	500438	500481	
1*		500442		
2	500437	500437	500480	
3*		500440		
4		500450		
6	500439	500439	500482	
7		500444		
8		500448		
9	500447	500447	500483	
11**		500442		
31**		500440		
33		500449	500484	

*Assemble type "1" and "3" spools
with narrow center land toward "A"
end of valve

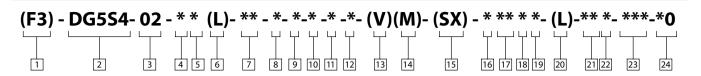
^{**}Assemble type "11" and "31" spools with narrow center land toward "B" end of valve.

Model	End Cover
A,B,C,F	500451
N	500474
Stroke Adjustment	568371





Model Code



- Seal Material
- F3 -Seals for mineral oil and fire resistant fluids

Blank - Standard seals

- 2 Model Series
- DG5S4 -Directional control valve, manifold or gasket mounted, solenoid controlled, pilot operated, sliding spool action, flow direction - four way
- 3 Valve Series
- 02 20 series valve size
- 4 Spool Type
- Spool/Spring Arrangement
- A Spring offset to A
- B Spring centered, shift to offset
- C Spring centered
- F Spring offset, shift to center
- N No spring, detented
- 6 Left Hand Assembly
- L Single solenoid models only (Omit for right hand assembly.)
- 7 Manual Operator in Pilot Valve **End Cap**
- Overrides in solenoid ends only
- H2 Waterproof overrides in both ends of single solenoid
- P2 Overrides in both ends of sinale solenoid
- Lockable manual overrides in solenoid ends only (DC only)
- No overrides in either end
- 8 Response
- Fast response (Omit for standard models.)
- 9 Spool Control Modifications (Omit if not required.)
- Stroke adj. both ends (used w/B, C, and F spool/spring arrangement only)
- Pilot choke adjustments, all models
- Pilot choke & stroke adjustment, both ends (B, C, and F models only)

- **Spool Control Modifications** (Con 't)
 - Stroke adjustment cvl "A" end only (not available on N and AL)
- Stroke adjustment cyl "B" end only (not available on N and AL)
- 2-7 Pilot choke & stroke adjustment, cyl "A"end (not available on N and AL)
- 2-8 Pilot choke & stroke adjustment, cyl "B" end (not available on N and A models)
- 10 External Pilot Pressure
- External pilot pressure (Omit for internal pilot pressure models.)
- Pilot Drain
- Internal pilot drain (Omit for external pilot drain.)
- 12 Mounting Screw Option

Blank - 2500 - 20 UNC-2A screws

M6X1 - 6g screws

- [13] Solenoid Energization Identity
- Blank Standard arrangment for ANSI B93.9 (i.e. engergize solenoid "A" to allow flow "P" to "A")
- ٧. Solenoid identification determined by position of solenoid (i.e. solenoid "A" at port "A" end/solenoid "B" at port "B" end). Note: Type 4 & 8 spools are always V
- Flag Symbol Heading **Electrical Options & Features**
- **Spool Position Monitor Switch** (A, B, and F models only)
- Proximity switch, normally open S1* -
- S2* -Proximity switch, normally closed
- Limit switch, normally open
- S4** Limit switch, normally closed
- S5*** Limit switch unwired
- *Available on U models only
- **Available on PA, PB, PA5 models only
- ***Available on FW & FJ models only

- 16 Coil Type
- U-ISO 4400 (DIN 43650)
- Plua-in coil P -
- F -Flying lead
- SP1 Single 6.3mm spade to IEC 760
- SP2 Dual 6.3mm spade to IEC 760
- Flame proof solenoids to X1 -EEX-O-11B-T4
- Special protection solenoids X2 to CSA/UL
- [17] Electrical Plug Features (F type coils only)
- Т-Wired terminal block
- PA Insta-plug male connector only
- PB Insta-plug male and female receptacles
- PA3 -NFPA 3-pin conduit connector
- NFPA 5-pin conduit connector PA5 -
- 18 Housing (F type coils only)
- Wiring housing with 1/2" NPT thread connectors
- 20mm thread
- 19 Electrical Options
- 1 ISO 4400 with fitted plug (U type coils only)
- 7 Surge damper
- 20 Solenoid Indicator Lights
- For models with flying lead "F" and terminal block "T" only (Omit if not required.)
- 21 Coil Identification Letter (Refer to I-3886-S)
- 22 Tank Pressure Rating
- 2 10 bar (145 psi) switch models
- 4 70 bar (1000 psi) hazardous models
- 6 160 bar (2285 psi) A.C. models
- 7 210 bar (3000 psi) D.C. models
- **Pilot Valve Port Orifices** (Omit if not required.)
- 24 Design
- 20 DG4V3S 60 pilot valve
- 30 DG4V3 60 pilot valve



Products we offer:

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- DCV directional control valves
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- Electric machines
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- Gear pumps
- Hydraulic integrated circuits (HICs)
- Hydrostatic motors
- Hydrostatic pumps
- Orbital motors
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