Service Data

$\text{Vickers}^{\text{\tiny{\circledR}}}$

Directional Controls



Directional Control Valve

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



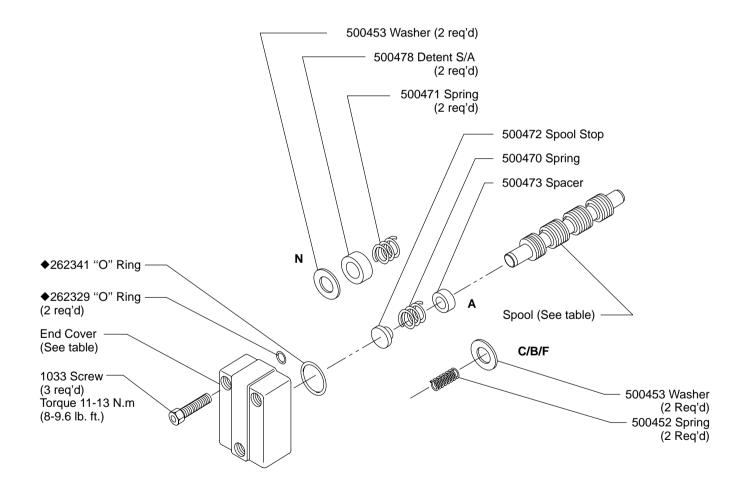
Spool/Spring Arrangement				
Spool	Α	B,C,F	N	
Туре				
0	500438	500438	500481	
1*		500442		
2	500437	500437	500480	
3*		500440		
4		500450		
6	500439	500439	500482	
7		500444		
8		500448		
9	500447	500447	500483	
11**		500442		
31**		500440		
33		500449	500484	

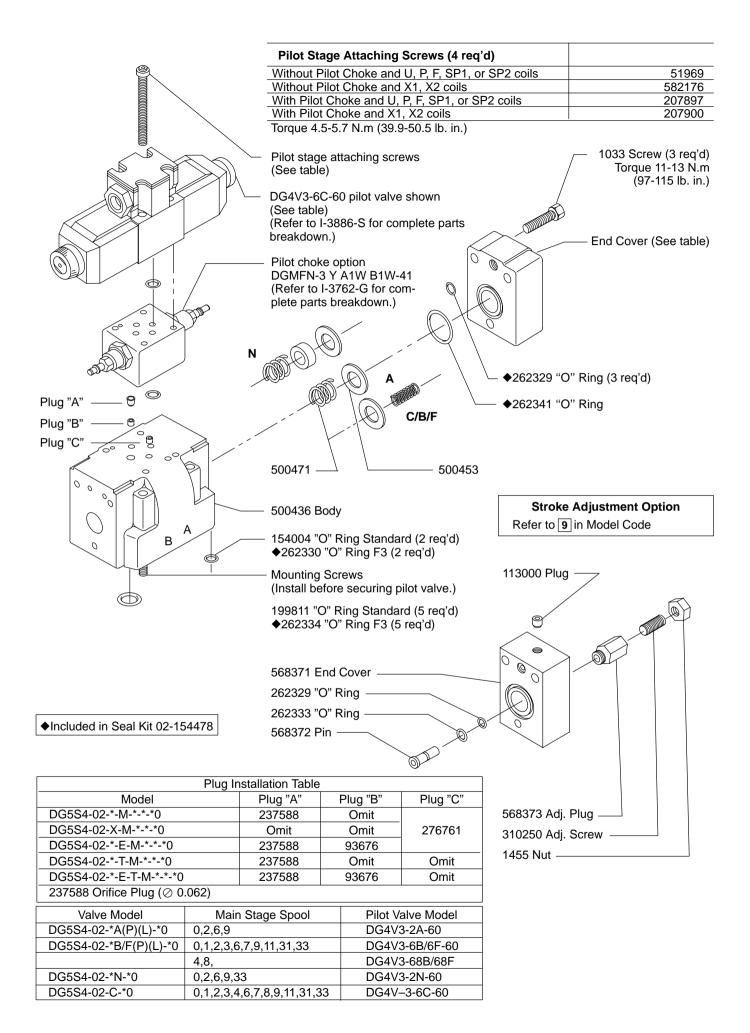
33		500449	5004		
*Assemble type "1" and "3" spools					
with narrow center land toward "A"					

end of valve.

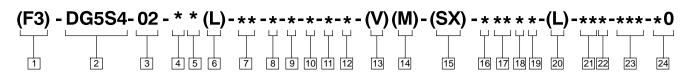
**Assemble type "11" and "31" spools
with narrow center land toward "B"
end of valve.

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





Model Code



1 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

5 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.)

Manual Operator in Pilot Valve End Cap

H - Overrides in solenoid ends only

H2 - Waterproof overrides in both ends of single solenoid

P2 - Overrides in both ends of single solenoid

 Y - Lockable manual overrides in solenoid ends only (DC only)

Z - No overrides in either end

8 Response

X - Fast response (Omit for standard models.)

Spool Control Modifications (Omit if not required.)

 Stroke adj. both ends (used w/B, C, and F spool/spring arrangement only)

2 - Pilot choke adjustments, all models

 Pilot choke & stroke adjustment, both ends (B, C, and F models only)

Spool Control Modifications (Con't)

 7 - Stroke adjustment cyl "A" end only (not available on N and AL)

8 - 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

 E - External pilot pressure (Omit for internal pilot pressure models.)

11 Pilot Drain

 T - Internal pilot drain (Omit for external pilot drain.)

12 Mounting Screw Option

Blank - 2500 - 20 UNC-2A screws **M** - M6X1 - 6a screws

[13] Solenoid Energization Identity

Blank - Standard arrangment for ANSI B93.9 (i.e. engergize solenoid "A" to allow flow "P" to "A")

V - 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)

S1* - Proximity switch, normally open **S2*** - Proximity switch, normally

closed

\$3** - Limit switch, normally open

\$4** - Limit switch, normally closed

\$5*** - 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)

P - Plug-in coil

F - Flying lead

SP1 - Single 6.3mm spade to IEC 760 **SP2** - Dual 6.3mm spade to IEC 760

X1 - Flame proof solenoids to

EEX-O-11B-T4

X2 - Special protection solenoids to CSA/UL

17 Electrical Plug Features (F type coils only)

T - Wired terminal block

PA - Insta-plug male connector only

PB - Insta-plug male and female receptacles

PA3 - NFPA 3-pin conduit connector

PA5 - NFPA 5-pin conduit connector

18 Housing (F type coils only)

W - Wiring housing with ½" NPT thread connectors

J - 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

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. Selections from Eaton OFP, OFR, and OFRS series are recommended.