



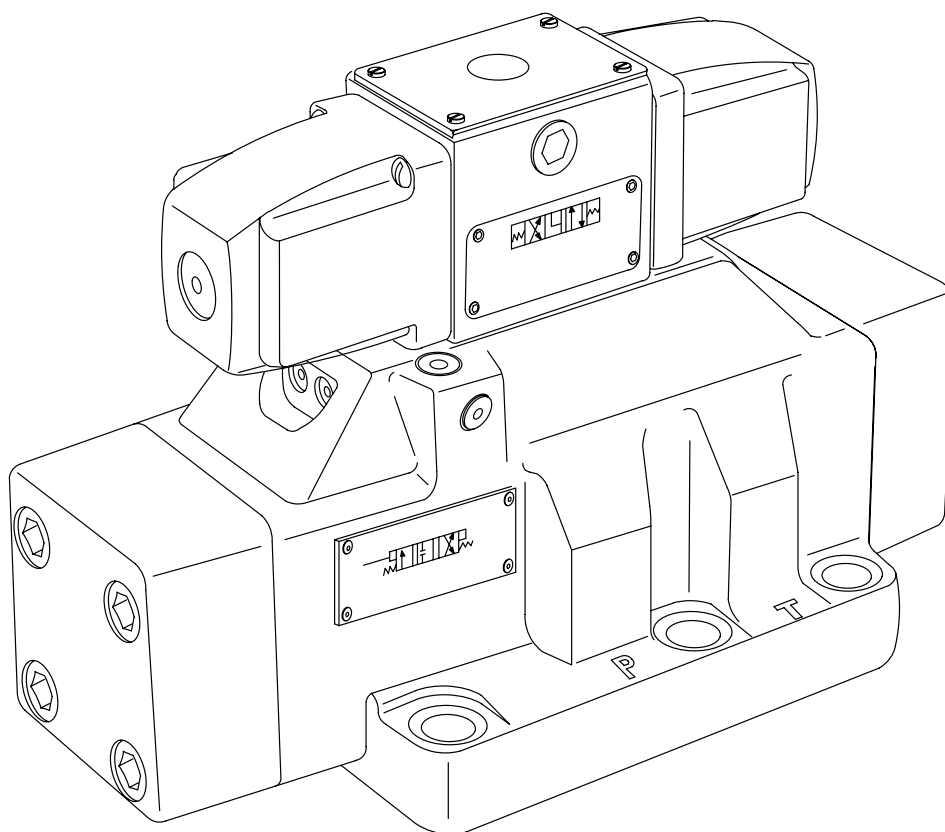
Wet Armature, Pilot Operated Solenoid Controlled, Directional Valve

DG5S4-10*A*W(3)-*-53

DG5S4-10*B*W(3)-*-53

DG5S4-10*C*W(3)-*-53

DG5S4-10*N*W(3)-*-53



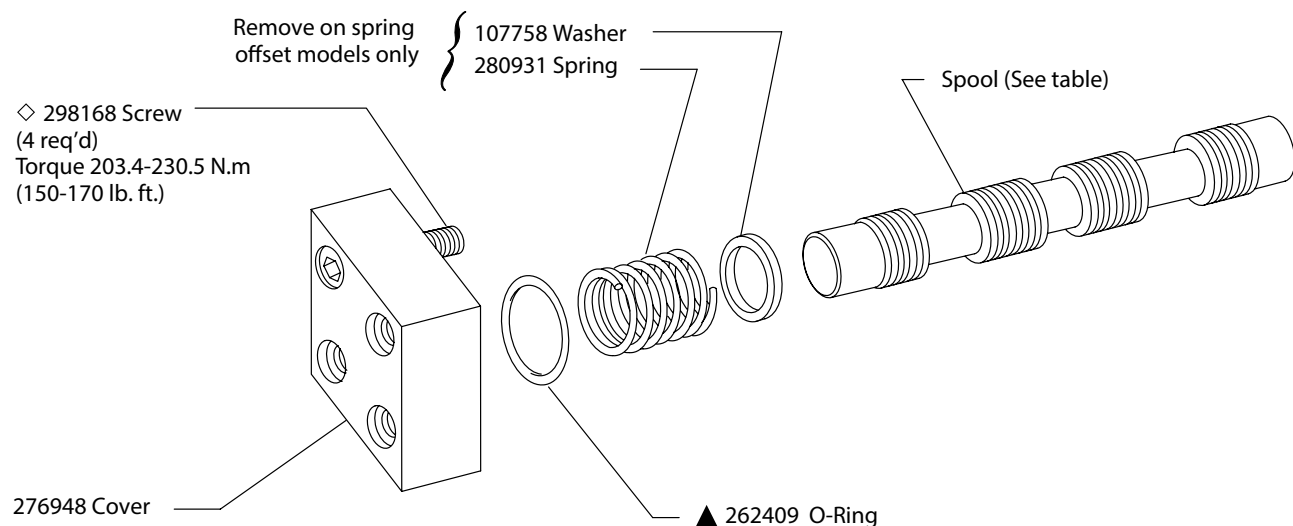
Plug Installation Table			
Model	Plug "A"	Plug "B"	Plug "C"
DG5S4-10**-	Does Not Exist	30560	Out
DG5S4-10**-E		7074	30560
DG5S4-10**-X		Out	Out
DG5S4-10**-X-E			
DG5S4-10**-K/L/R/S	161809	7074	30560
DG5S4-10**-E-K/L/R/S	113000		Out
DG5S4-10**-X-K/L/R/S	Out		
DG5S4-10**-X-E-K/L/R/S	113000		

■ Plug Torques (Oiled)		
Plug	N.m	lb. in.
7074	8.5-9.6	75-85
7075	20.0-23.0	180-205
30560	8.5-9.6	75-85
113000	5.0-5.9	45-52
161809	5.0-5.9	45-52
343740	10.0-11.8	90-105
363889	16.9-18.0	150-160
407533	3.4-4.0	30-35

Valve Model Code		Spool	Main Stage ID Plate W/Circuit Diagram	
Model	Valve Type		A	B, C, N
DG5S4-100-	A/B/C/N	364037	400975	400976
DG5S4-101-	B/C	*331404	—	400977
DG5S4-102-	A/B/C/N	364038	400975	400978
DG5S4-103-	B/C	*277479	—	400979
DG5S4-104-		281193	—	400980
DG5S4-106-	A/B/C/N	364039	400975	400981
DG5S4-108-	B/C	364041	—	400980
DG5S4-109-	A/B/C/N	277563	400975	400976
DG5S4-1031-	B/C	*277479	—	580475
DG5S4-1033-	A/B/C/N	364042	400975	400981

*Assemble type "1" and "3" spools with narrow center land toward "A" end of valve. "A" end is defined as being closest to cylinder port "A". The type "31" spool is installed in reverse of type "3", with narrow center land toward "B" end.

Pilot Attaching Parts		
Model	Bolt (4 req'd)	L'Washer (4 req'd)
W/Out Pilot Choke	□ 1034	✓□ 68907
W/Pilot Choke (See back page)	✓ 10938	
Torque to 11.3 - 12.65 N.m (100-112 lb. in.)		



Note
Refer to Parts Drawing I-3487-S for models with Plug-in Features.

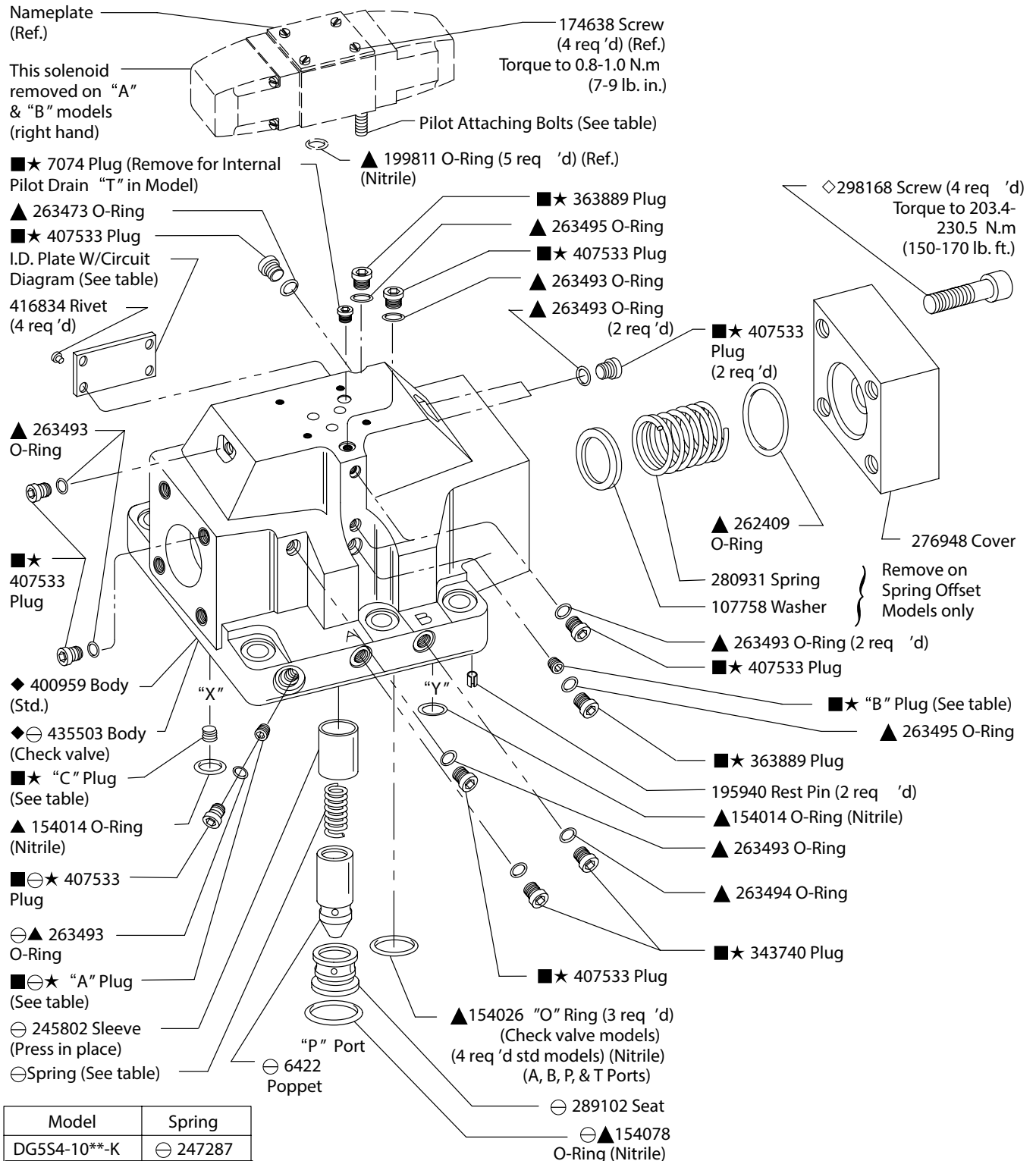
- ▲ Included in F3 Seal Kit 920213
- ◇ Included in Fastener Kit 941262
- Included in Bolt Kit 255633
- / Included in Bolt Kit 255654
- ★ Included in Plug Kit 941263
- Plug Torques (See table)
- ◆ Not available for sale
- ⊖ Used in Check Valve models only

Note
SAE straight thread plugs used on exterior of valve.

Note
Parts included in service kits will not be sold separately.

Seal Kit Note
The -53 design valves are manufactured as shown with F3 seals used internally. Interface seals are standard Nitrile material and are converted to F3 in the seal kit. All seals in the Seal Kit are F3.

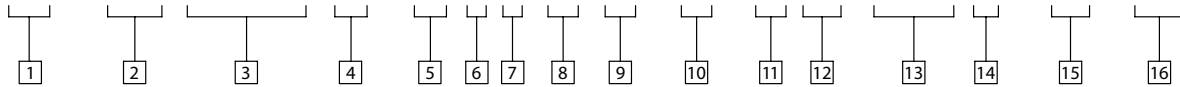
Valve Model	Main Stage Spool	Pilot Valve Model	Pilot Valve Exploded View Shown on:
DG5S4-10*A-W*-53	0, 2, 6, 9, 33	DG4S4-012A-W*-50	I-3557-S
DG5S4-10*B-W*-53	0, 1, 2, 3, 6	DG4S4-016B-W*-50	I-3558-S
	9, 31, 33	DG4S4-0168B-W*-50	
	4 & 8	DG4S4-016C-W*-50	
DG5S4-10*C-W*-53	0, 1, 2, 3, 6	DG4S4-016C-W*-50	I-3559-S
	9, 31, 33	DG4S4-0168C-W*-50	
	4 & 8	DG4S4-0168C-W*-50	
DG5S4-10*N-W*-53	0, 2, 6, 9, 33	DG4S4-012N-W*-51	I-3559-S



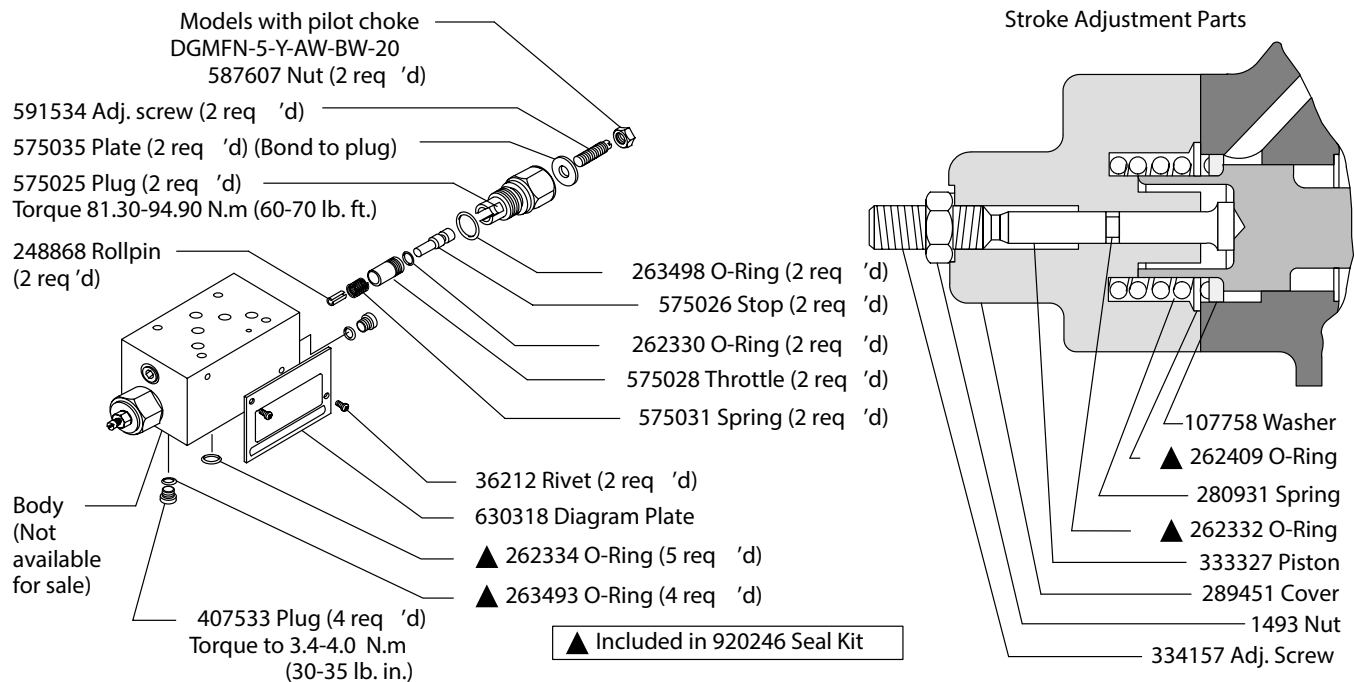
Model	Spring
DG5S4-10**-K	247287
DG5S4-10**-L	247288
DG5S4-10**-R	276428
DG5S4-10**-S	432353

Model Code

(F3) - (P) DG5S4 (L) - 10 * * (X) (*) - (E) - (T)(*) - W(3) * - 53 - (LH)**



1 Seal Material	7 Valve Type	11 Pilot Drain
F3 - Seals for mineral oil and fire resistant fluids (Viton seals)	A - Spring offset B - Spring centered (one solenoid) C - Spring centered N - No spring detented	T - Internal Omitted - External
2 Electrical Feature Plug	8 Response	12 Check Valve
(See note below)	"X" - Fast response model Omitted - Low shock model	K - 5 PSI (0.35 bar) cracking press. L - 35 PSI (2.14 bar) cracking press. R - 50 PSI (3.45 bar) cracking press. S - 75 PSI (5.2 bar) cracking press. Omitted - No check valve
3 Model Series	9 Spool Control Modifications (Omit if not required)	13 Wet Armature Type
DG3S4 - Directional valve, subplate or manifold mounted, solenoid controlled, pilot operated, sliding spool, flow directions 4 - 4 way	1 - Stroke adjustments 2 - Pilot choke adjustments 3 - Pilot choke & stroke adjs. 7 - Stroke adj. "A" end only 8 - Stroke adj. "B" end only	W - Non-serviceable core tube in pilot W3 - Serviceable core tube in pilot check valve
4 Solenoid Indicator Lights	10 External Pilot Pressure	14 Coil Identification Letter
L - Light Omitted - None	Omitted - Internal pilot pressure	15 Design
5 Series		16 Left Hand Assembly
10 - 100 (1.250 inch)		
6 Spool Type		



Electrical Plug Feature (Omit if not required)

PA - Insta-Plug, Male Receptacle only	PA3 (3 Pin) & PA5 (5 PIN) receptacles that meet NFPA Hydraulic Valve Electrical Standard T3.5.29M-1980.
PB - Insta-Plug, Male & Female Receptacle	

For satisfactory service life of these components use full flow filtration to provide fluid which meets ISO cleanliness code 20/18/15 or cleaner. Selections from Danfoss OFF, OFR, and OFRS series are recommended.

Products we offer:

- Cartridge valves
- DCV directional control valves
- Electric converters
- Electric machines
- Electric motors
- Gear motors
- Gear pumps
- Hydraulic integrated circuits (HICs)
- Hydrostatic motors
- Hydrostatic pumps
- Orbital motors
- PLUS+1® controllers
- PLUS+1® displays
- PLUS+1® joysticks and pedals
- PLUS+1® operator interfaces
- PLUS+1® sensors
- PLUS+1® software
- PLUS+1® software services, support and training
- Position controls and sensors
- PVG proportional valves
- Steering components and systems
- Telematics

Hydro-Gear

www.hydro-gear.com

Daikin-Sauer-Danfoss

www.daikin-sauer-danfoss.com

Danfoss Power Solutions is a global manufacturer and supplier of high-quality hydraulic and electric components. We specialize in providing state-of-the-art technology and solutions that excel in the harsh operating conditions of the mobile off-highway market as well as the marine sector. Building on our extensive applications expertise, we work closely with you to ensure exceptional performance for a broad range of applications. We help you and other customers around the world speed up system development, reduce costs and bring vehicles and vessels to market faster.

Danfoss Power Solutions – your strongest partner in mobile hydraulics and mobile electrification.

Go to www.danfoss.com for further product information.

We offer you expert worldwide support for ensuring the best possible solutions for outstanding performance. And with an extensive network of Global Service Partners, we also provide you with comprehensive global service for all of our components.

Local address:

**Danfoss
Power Solutions (US) Company**
2800 East 13th Street
Ames, IA 50010, USA
Phone: +1 515 239 6000

**Danfoss
Power Solutions GmbH & Co. OHG**
Krokamp 35
D-24539 Neumünster, Germany
Phone: +49 4321 871 0

**Danfoss
Power Solutions ApS**
Nordborgvej 81
DK-6430 Nordborg, Denmark
Phone: +45 7488 2222

**Danfoss
Power Solutions Trading
(Shanghai) Co., Ltd.**
Building #22, No. 1000 Jin Hai Rd
Jin Qiao, Pudong New District
Shanghai, China 201206
Phone: +86 21 2080 6201

Danfoss can accept no responsibility for possible errors in catalogues, brochures and other printed material. Danfoss reserves the right to alter its products without notice. This also applies to products already on order provided that such alterations can be made without subsequent changes being necessary in specifications already agreed. All trademarks in this material are property of the respective companies. Danfoss and the Danfoss logotype are trademarks of Danfoss A/S. All rights reserved.