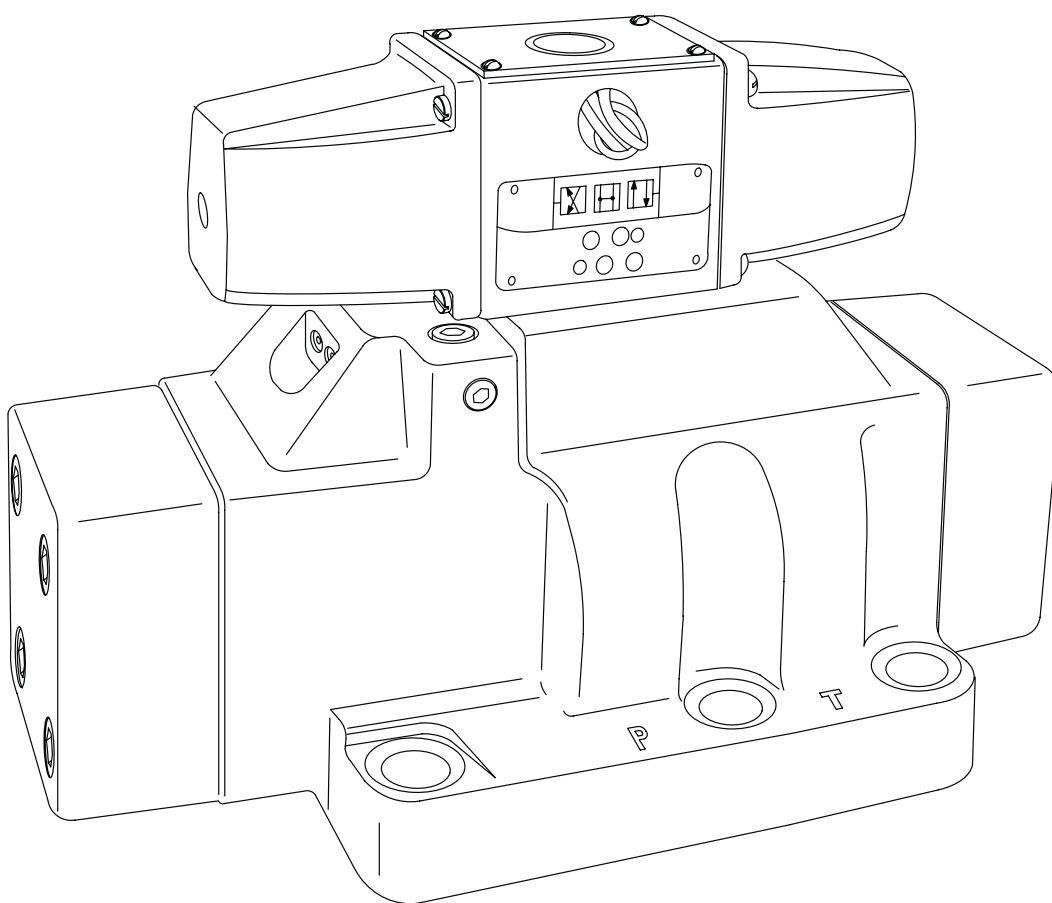


Directional Controls

Pilot Operated Directional Control Valves

DG5S4-10**-*-53



Plug Installation Table			
Model	Plug A"	Plug B"	Plug C"
DG5S4-10**-53	Does Not Exist	30560	Out
DG5S4-10**-E-53		7074	30560
DG5S4-10**-X-53		Out	Out
DG5S4-10**-X-E-53		7074	
DG5S4-10**-K/L/R/S-53	161809		
DG5S4-10**-E-K/L/R/S-53	113000		30560
DG5S4-10**-X-K/L/R/S-53	Out		Out
DG5S4-10**-X-E-K/L/R/S-53	113000		

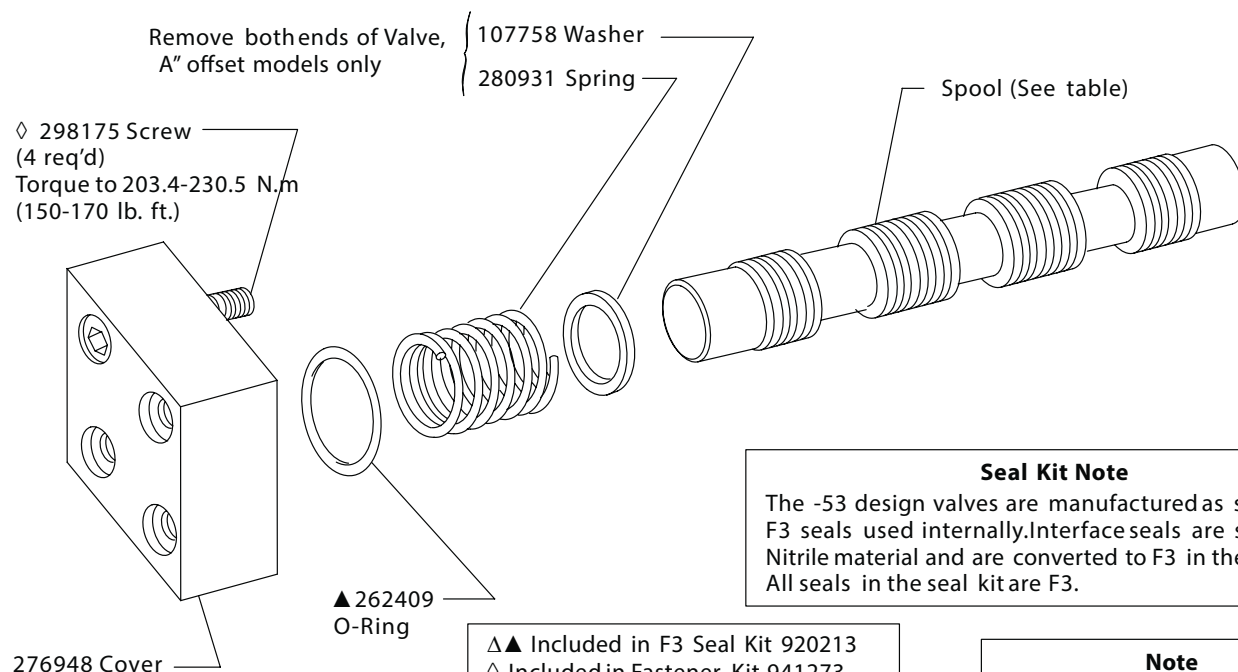
■ Plug Torques (Oiled)		
Plug	N.m	lb. in.
7074	8.5 - 9.6	75-85
7075	20.0-23.0	180-205
30560	8.5-9.6	75-85
113000	5.0-5.9	45-52
161809		
343740	10.0-11.8	90-105
363889	16.9-18.0	150-160
407533	3.4-4.0	30-35

Valve Model Code		Spool	ID Plate W/Circuit Diagram	
Main Stage Spool	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

*Spool Assembly Note

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.		



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.

- ▲▲ Included in F3 Seal Kit 920213
- ◇ Included in Fastener Kit 941273
- Included in Bolt Kit 255654
- Included in Bolt Kit 255633
- Included in Plug Kit 941263
- Plug Torques (See table)
- ◆ Not available for sale
- Used On Check Valve Models Only

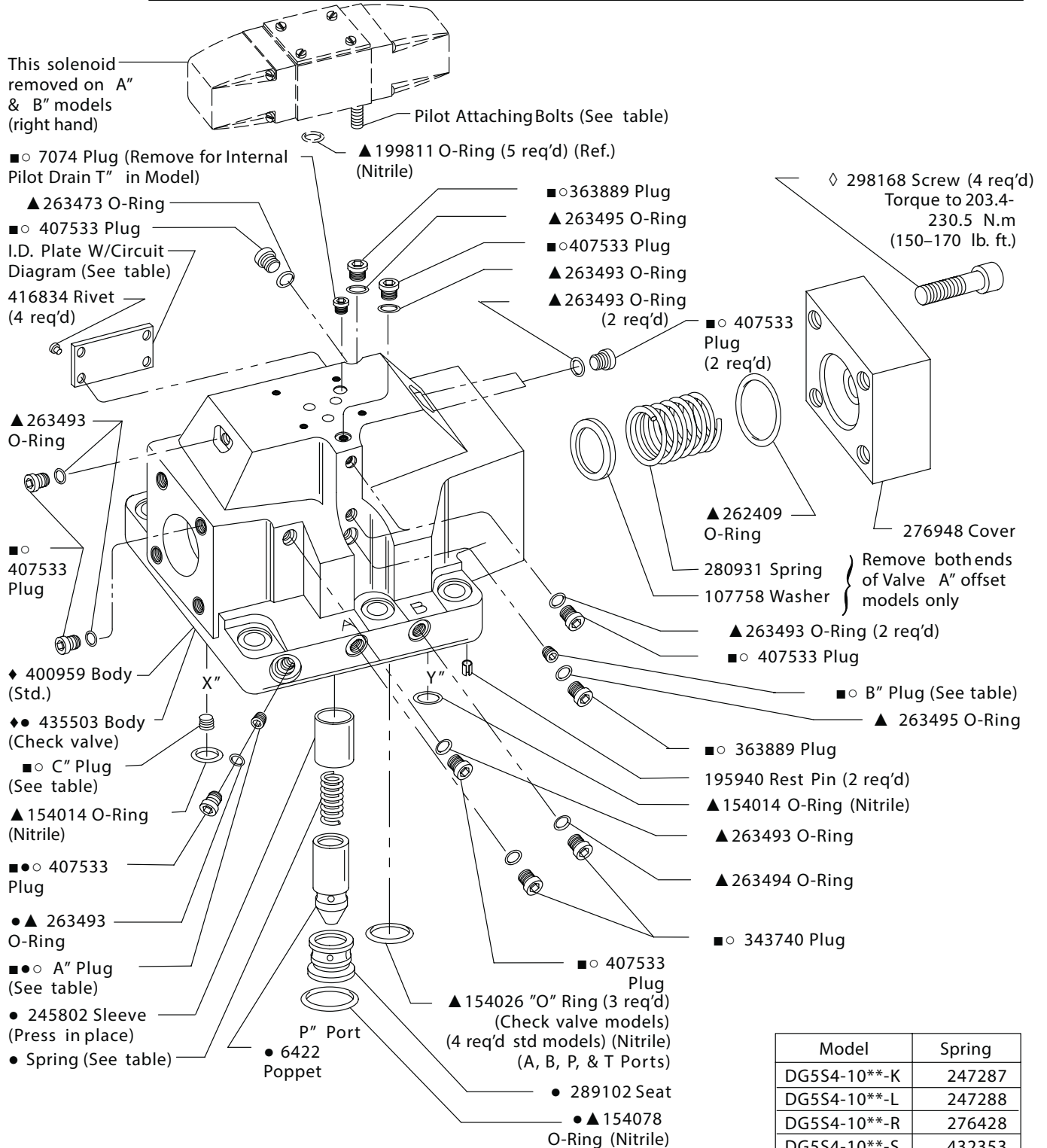
Note

SAE straight thread plugs used on exterior of valve.

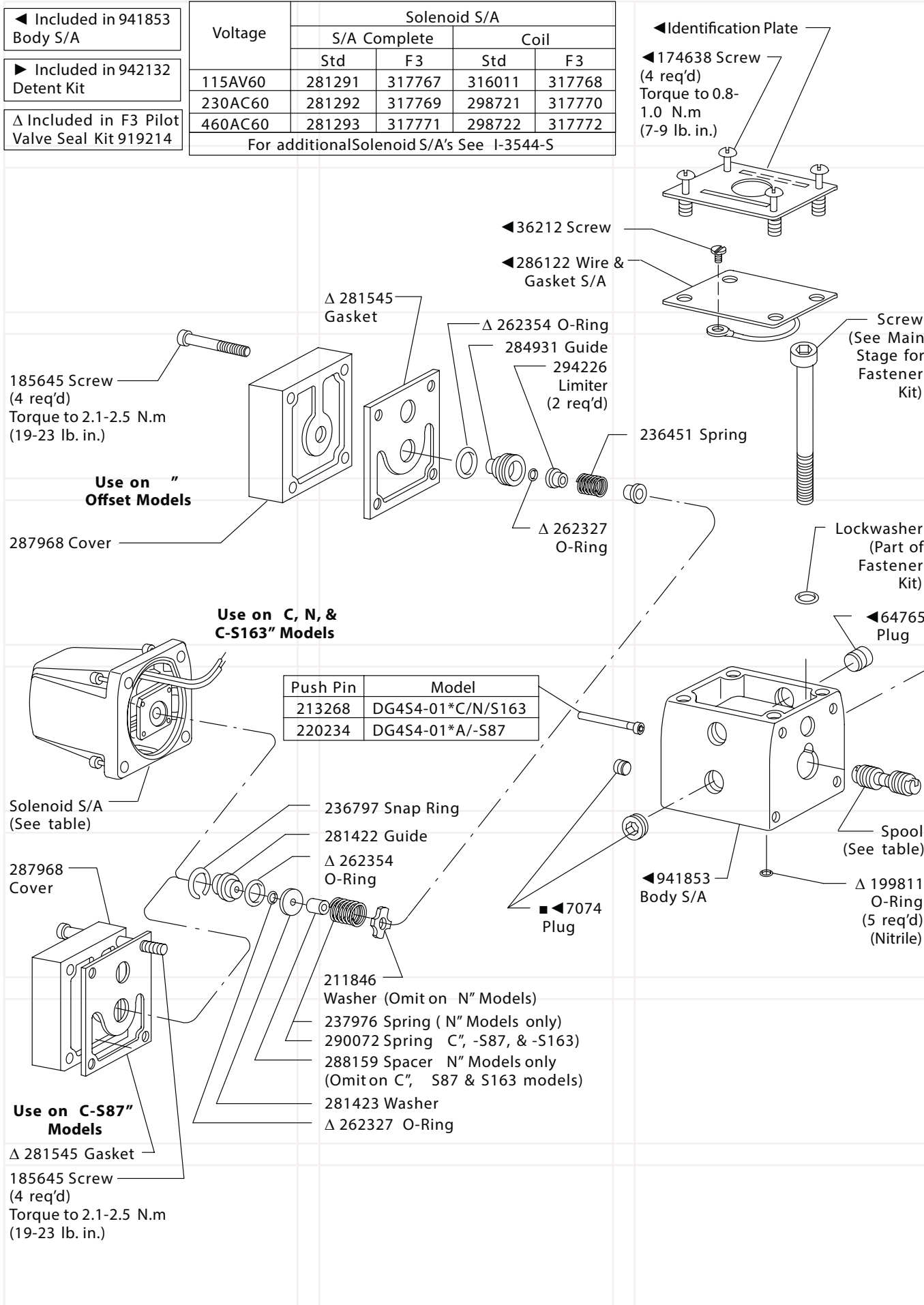
Note

Parts included in service kits not sold separately.

Valve Model	Main Stage Spool	Valve Is Assembled:	
		Left Hand	Right Hand (STD)
		Pilot Valve Model Code (See Back Page For Exploded View)	
DG5S4-10*A-53	0, 2, 6, 9, 33	DG4S4-012A-*-50-LH	DG4S4-012A-*-50
DG5S4-10*B-53	0, 1, 2, 3, 6 9, 31, 33	DG4S4-016C-*-50-S163	DG4S4-016C-*-50-S87
	4 & 8	DG4S4-0168C-*-50-S163	DG4S4-0168C-*-50-S87
DG5S4-10*C-53	0, 1, 2, 3, 6 9, 31, 33		DG4S4-016C-*-50
	4 & 8		DG4S4-0168C-*-50
DG5S4-10*N-53	0, 2, 6, 9, 33		DG4S4-012N-*-51



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



Spool		Diagram Plate			
		A"		C"	N"
Type	Part	LH	RH	STD/S87/S163	
2	213231	577490	290348		577486
6	213232			290345	
68				577480	

Note

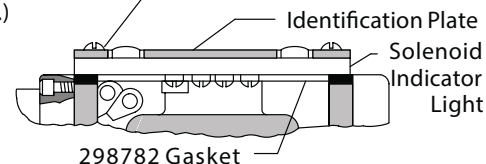
A Spool designation of (68B) indicates valve is assembled LH" & is used as a pilot for two Stage Valves with 4" or 8" type Main Stage Spools.

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.

For models with Solenoid Indicator Lights

298785 Screw
Torque to 0.8-1.0 N.m
(7-9 lb. in.)



Solenoid Indicator Light Kit
(Includes all parts identified)

Voltage Range	Kit
100 thru 127	941615
192 thru 233	941617

Note

For single solenoid models righthand assembly shown. For left hand assembly all parts are reversed, except body & spool. Ex. LH model: Dg454-01-**-*-5*-LH

Note

Refer to Parts Drawing I-3487-S for Models with Plug-In Feature.

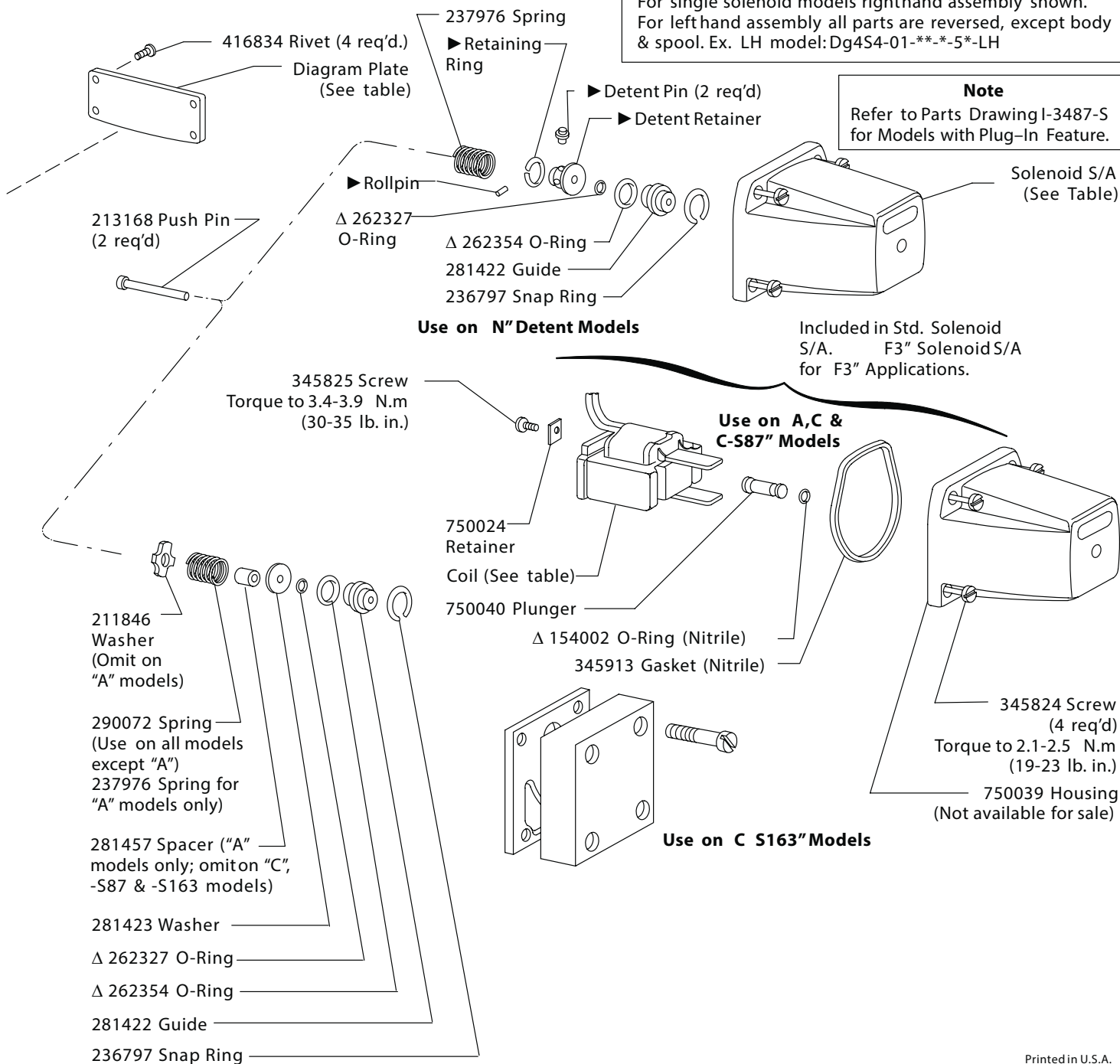
Solenoid S/A
(See Table)

Included in Std. Solenoid S/A.
F3" Solenoid S/A for F3" Applications.

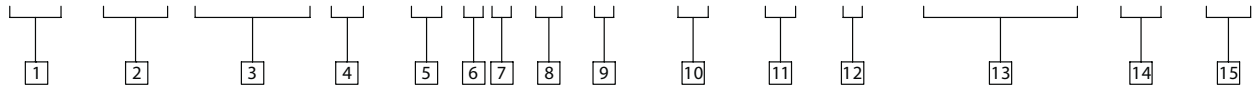
Use on N" Detent Models

Use on A, C & C-S87" Models

Use on C S163" Models



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



1 Seal Material

F3 - Seals for mineral oil and fire resistant fluids (Viton)

2 Electrical Plug Feature

(See note below)

3 Model Series

DG5S4 -Directional valve, subplate or manifold mounted, solenoid controlled, pilot operated, sliding spool, flow directions 4 way

4 Solenoid Indicator Lights

L - Light

Omitted - None

5 Series

10 - 100 (1.250 inch)

6 Spool Type

Main Stage Spool

7 Valve Type

A - Spring offset

B - Spring centered (one solenoid)

C - Spring centered

N - No spring detented

8 Response

"X" - Fast response model

Omitted - Low shock model

9 Spool Control Modifications

(Omit if not required)

1 - Stroke adjustments

2 - Pilot choke adjustments

3 - Pilot choke & stroke adjustment

7 - Stroke adj. cylinder "A" end only

8 - Stroke adj. cylinder "B" end only

10 Pilot Pressure

E - External

Omitted - Internal

11 Pilot Drain

T - Internal Pilot Drain

Omitted - External pilot drain

12 Check Valve

K - 0.35 bar (5 psi)

L - 2.4 bar (2.4 psi)

R - 3.45 bar (3.45 psi)

S - 5.2 bar (5.2 psi)

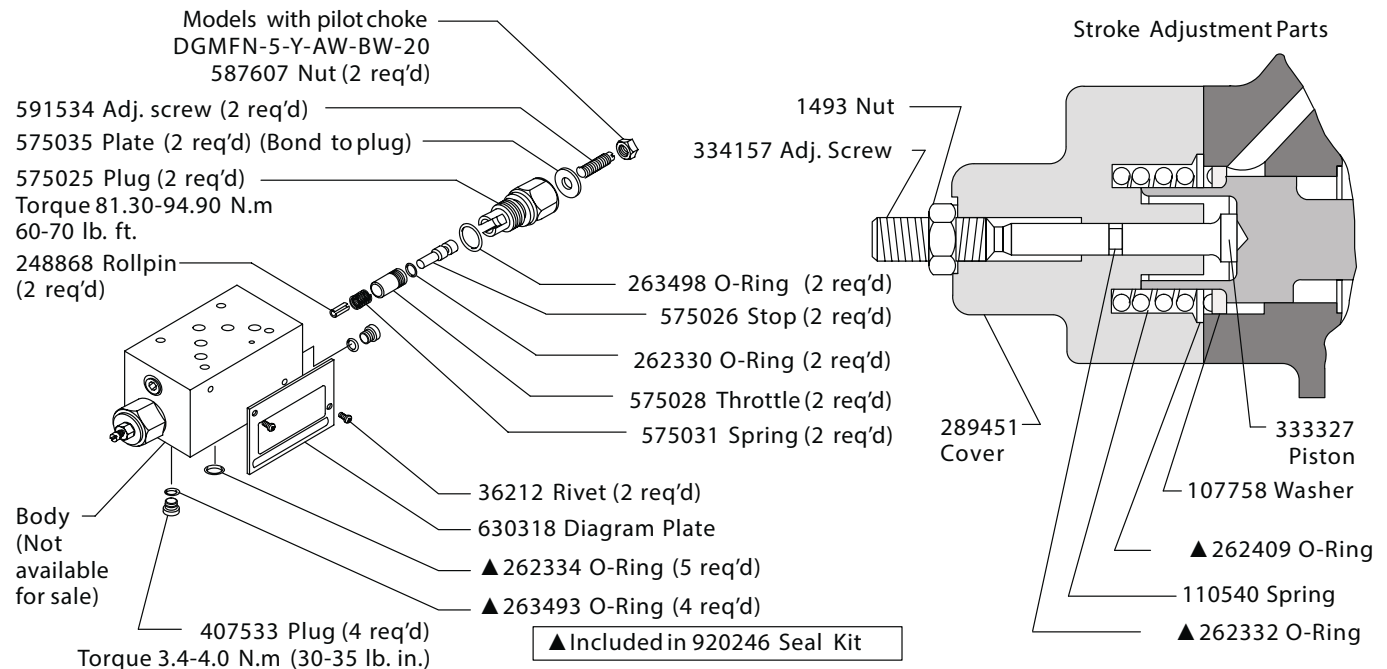
Omitted - No check valve

13 Voltage & Frequency

Omitted - 115AC60 standard

14 Design

15 Left Hand Assembly



Electrical Plug Feature (Omit if not required)

PA - Insta-Plug, Male Receptacle only

PB - Insta-Plug, Male & Female Receptacle

PA3 (3 Pin) & PA5 (5 PIN) receptacles that meet NFPA Hydraulic Valve Electrical Standard T3.5.29M-1980.

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**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