



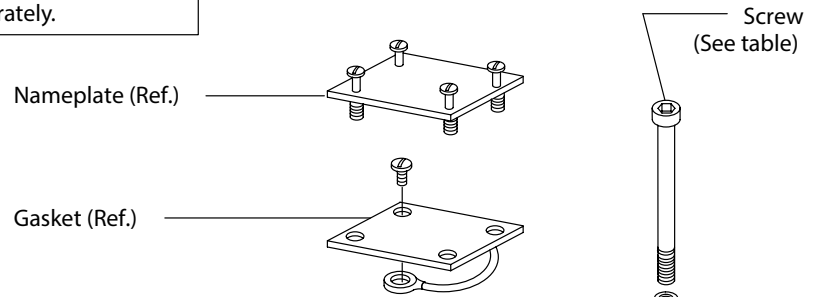
Solenoid Controlled Pilot Operated Directional Valve

DF5S4(L)-16*A/B/C/N-(*)-(E)*-53

Note
See back page for solenoid indicator lights.

Note
Part included in Kits will not be sold separately.

Pilot Attaching Parts		
Model	Screw (4 req 'd)	Washer (4 req 'd)
W/Out Pilot Choke	☐ 1034	☒ ☐ 68907
W/Pilot Choke	☒ 10938	
Torque to 11.3 -12.7 N.m (100-112 lb. in.)		
See other page for Pilot Choke parts.		



This Solenoid removed
on "A" & "B" models

△ 199811 "O" Ring
(Ref) (5 req 'd)

Pilot Choke location
(See model code page)

■ 113000 Plug

For external pilot pressure
models. Remove for internal
pilot pressure.

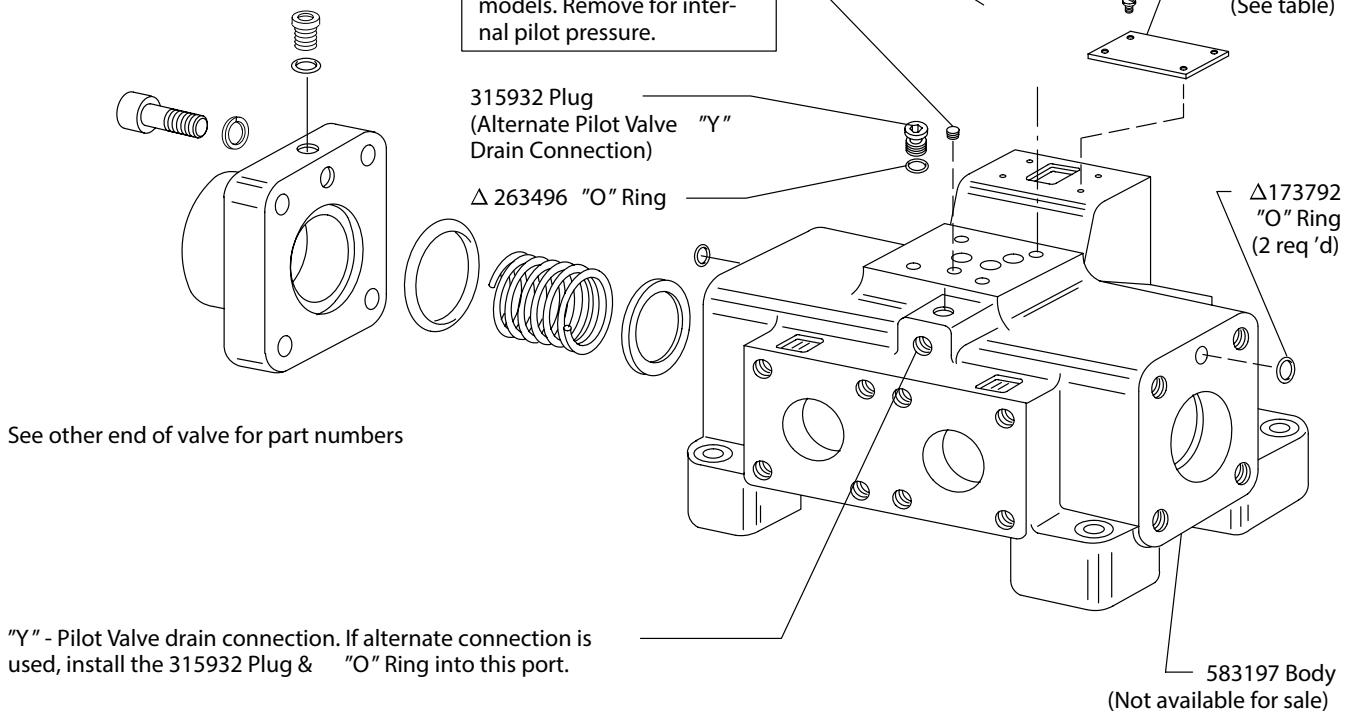
315932 Plug
(Alternate Pilot Valve "Y"
Drain Connection)

△ 263496 "O" Ring

416834 Rivet
(4 Req 'd)

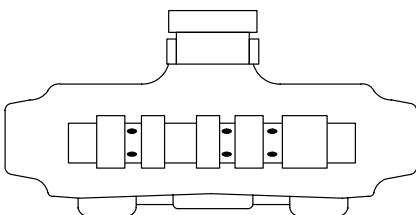
Main Stage
ID Plate
(See table)

△173792
"O" Ring
(2 req 'd)

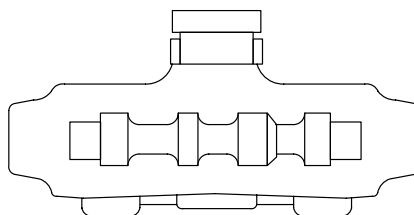


"Y" - Pilot Valve drain connection. If alternate connection is
used, install the 315932 Plug & "O" Ring into this port.

Assemble type 4 & 8 Spools with
wide undercut toward "A" end.
"A" end of valve is defined as be-
ing closest to cylinder port "A".



Assemble type 1 & 3 Spools with taper
toward "B" end. Type 31 Spool is as-
sembled with taper toward "A" end.

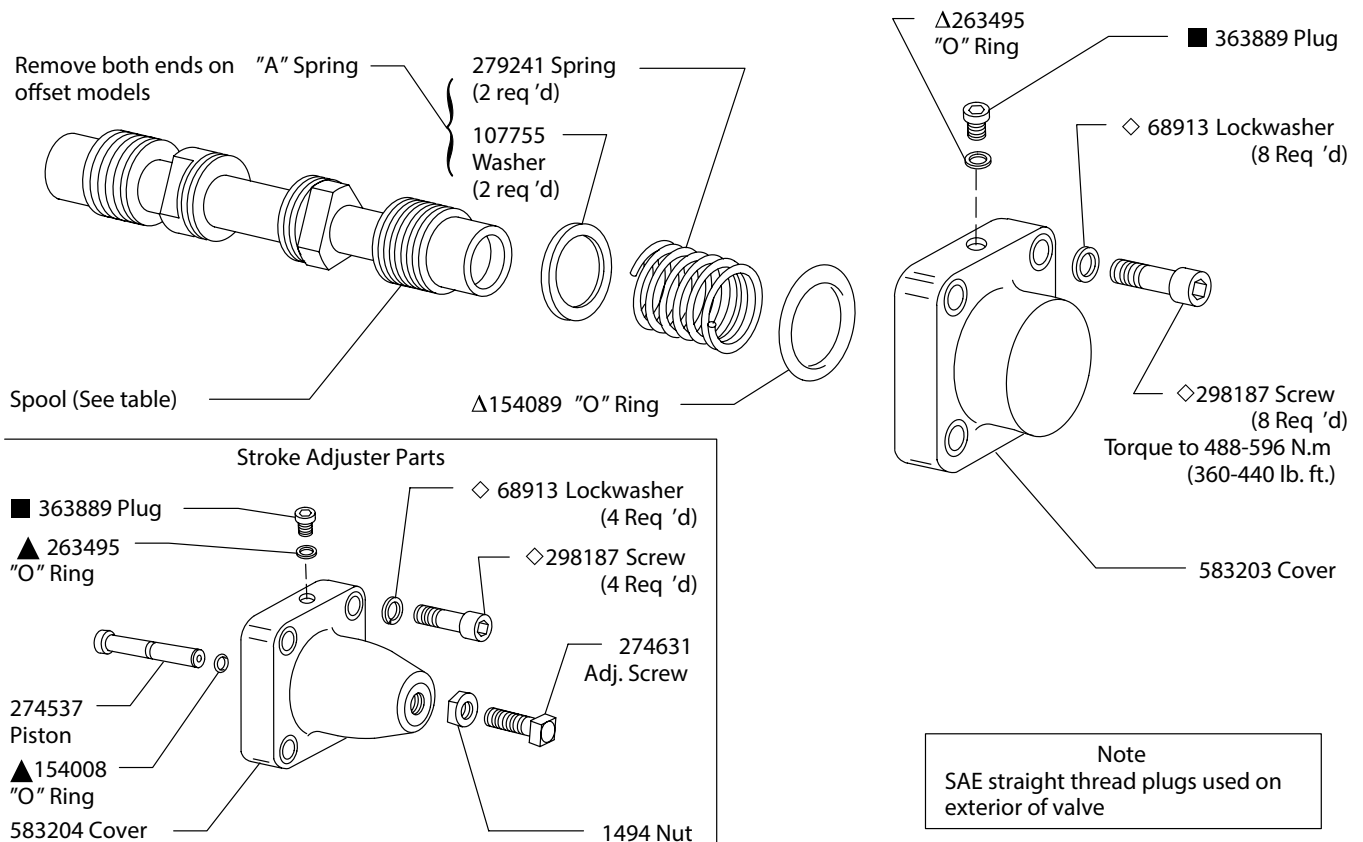


*Spool Assembly

▲△ Included in Seal Kit 919405
F3 equivalent Seal Kit 919434
□ Included in Bolt Kit 255633
▧ Included in Bolt Kit 255654
◇ Included in Fastener Kit 941309
■ Plug Torques (See table)

Valve Model Code	Main Stage Spool Type	Pilot Valve Model Code (See back page)
DF5S4-16*A-*-53	0, 2, 6, 9, 33	DG4S4-012A-*-50-S344
DF5S4-16*B-*-53	0, 1, 2, 3, 6 9, 31, 33	DG4S4-016B-*-50-S344
	4 & 8	DG4S4-0168B-*-50-S344
DF5S4-16*C-*-53	0, 1, 2, 3, 6 9, 31, 33	DG4S4-016C-*-50-S344
	4 & 8	DG4S4-0168C-*-50-S344
DF5S4-16*N-*-53	0, 2, 6, 9, 33	DG4S4-012N-*-51-S344

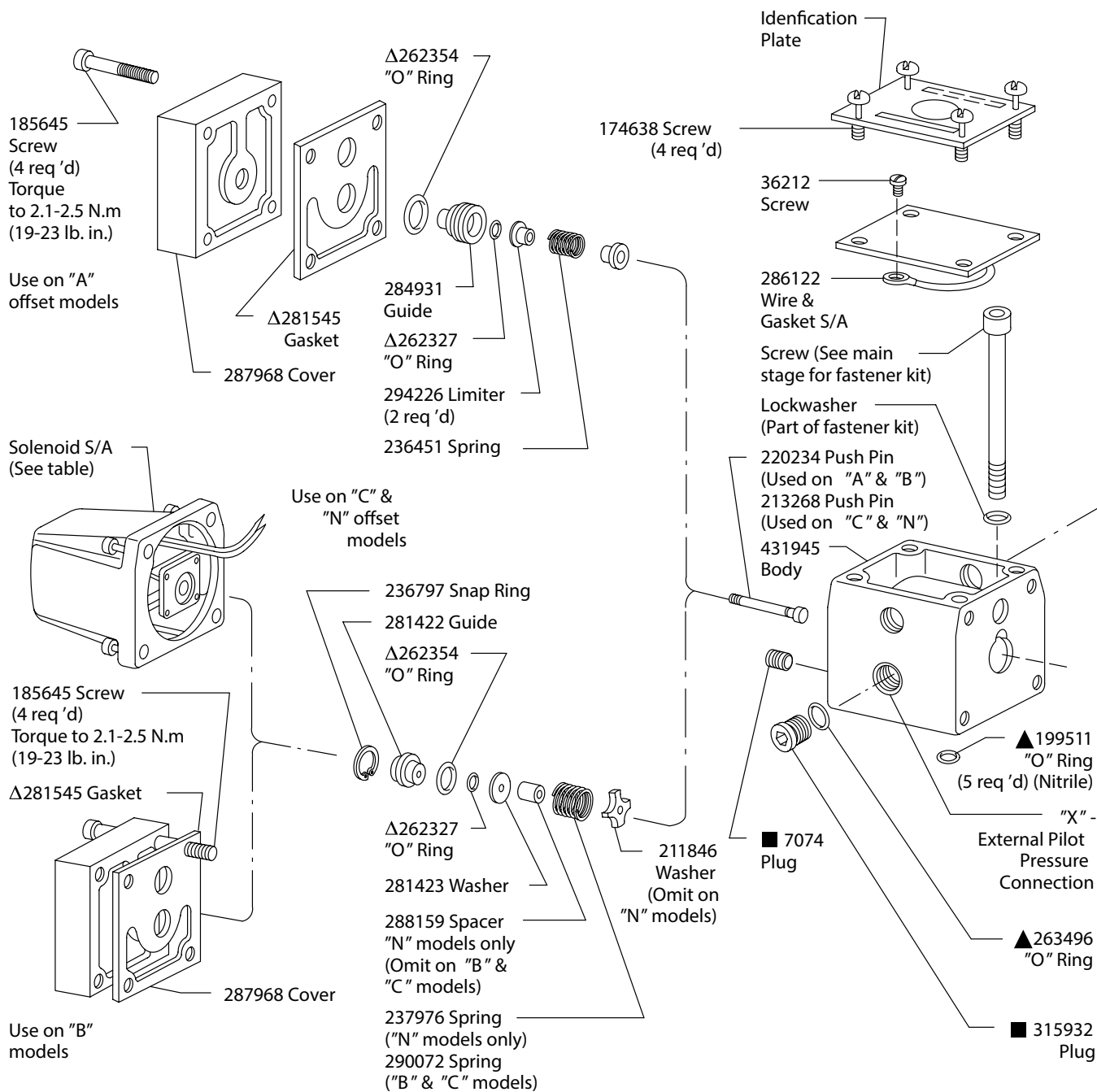
Valve Model Code		Spool	Main Stage ID Plate w/Circuit Diagram	
Model	Valve Type		"A" only	B/C/N
DF5S4-160-	A/B/C/N	273677	400975	400976
DF5S4-161-	B/C	*386581		400977
DF5S4-162-	A/B/C/N	273676		400978
DF5S4-163-	B/C	*275803		400979
DF5S4-164-		*273720		400980
DF5S4-166-	A/B/C/N	275804		400981
DF5S4-168-	B/C	*275805		400980
DF5S4-169-	A/B/C/N	275806		400976
DF5S4-1631-	B/C	*275803		580475
DF5S4-1633-	A/B/C/N	317777		400981
*See Spool Assembly Note				



Voltage	Solenoid S/A			
	S/A Complete		Coil	
	Std	F3	Std	F3
115AC60	281291	317767	316011	317768
230AC60	281292	317769	298721	317770
460AC60	281293	317771	298722	317772
For additional Solenoid S/A 's See I-3544-S				

Seal Kit Note
The -53 design pilot 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 pilot valve seal kit are F3.

Note
Refer to parts drawing I-3487-S for models with plug-in feature.



Note
Part numbers included in kits will not be sold separately.

* Included in 942132 Detent Kit

Δ Included in F3 Pilot Valve Seal Kit 919214

Note

For single solenoid models right hand assembly shown. For left hand assembly all parts are reversed, except body & spool.
Ex. LH Model: DG4S4-01**-5*-S344-LH

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.

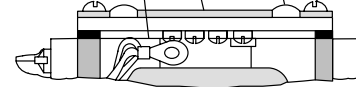
Spool		Diagram Plate			
		"A"		"B" & "C"	"N"
Type	Part	LH	RH		
2	213131	577490	290348		577486
6	213232			290345	
68				577480	

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

Solenoid Indicator Light

Identification Plate

298782 Gasket



Solenoid Indicator Light Kit
(Includes all parts identified)

Voltage Range	Kit
100 thru 127	941615
192 thru 233	941617

For models with Solenoid Indicator Lights

416834 Rivet (4 req 'd)

Diagram Plate (See table)

64765 Plug

Spool (See table)

213268
Push Pin

237976 Spring

* Retaining Ring

* Detent Pin (2 req 'd)

Δ262327 "O" Ring

Δ262354 "O" Ring

281422
Guide

236797 Snap Ring

* Detent
Retainer

* Rollpin

Use on "N" Detent models

211846 Washer
(Omit on "A" models)

237976 Spring
(For "A" models only)
290072 Spring used on
all models except "A"

281547 Spacer
("A" models omit on "B" & "C")

281423 Washer

Δ262327 "O" Ring

281422
Guide

Δ262354
"O" Ring

236797
Snap Ring

750024
Retainer

Coil (See table)

345825 Screw
Torque 3.4-3.9 N.m
(30-35 lb. in.)

750040 Plunger

Δ154002 "O" Ring (Nitrile)

Δ345913 Gasket (Nitrile)

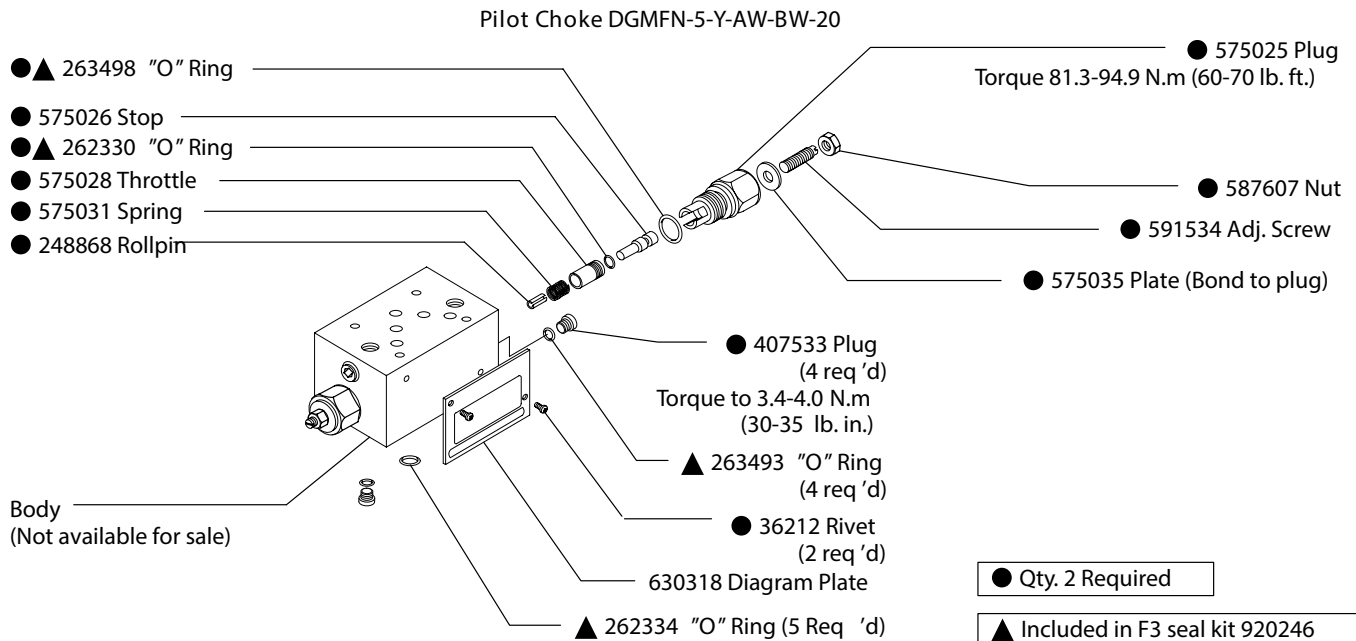
750039 Housing
(Not available for sale)

345824 Screw
(4 req 'd)
Torque 2.1-
2.5 N.m
(19-23 lb. in.)

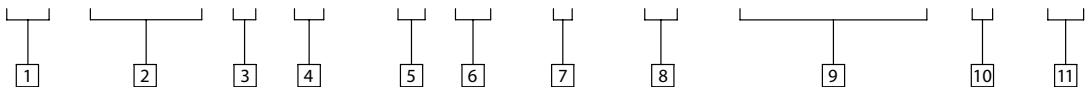
Included in
standard Solenoid S/A.
Use "F3" Solenoid S/A
for "F3" applications

Use on "A", "B", & "C" models

Model Code



(F3) DF5 S 4 (L) - 16 ** - (*) - (E) - (AC**) - 53**



1 Seal Material F3 - Seals for mineral oil and fire resistant fluids	6 Type of Main Stage Spool 7 Valve Type A - Spring offset B - Spring centered (one solenoid) C - Spring centered N - Detented	9 Pilot Pressure E - External Omitted - Internal pilot pressure
2 Model Series DF5S - Directional valve, flange connection, solenoid controlled, pilot operated, sliding spool	8 Spool Control Modification (Omit if not required) 1 - Stroke adjustments 2 - Pilot choke 3 - Pilot choke & stroke adjustment 7 - Stroke adjustment "A" end only 8 - Stroke adjustment "B" end only	10 Voltage and Frequency Omitted - 115AC60 standard
3 Flow Directions 4 - 4 way		11 Design Electrical Plug Feature (Omit if not required) PA - Insta-Plug, male receptacle only PB - Insta-Plug, male & female receptors PA3 (3 pin) & PA5 (5 pin) - receptacles that meet NFPA hydraulic valve electrical standard T3. 5.29M-1980.
4 Indicator Lights L - Solenoid indicator light Omitted - None		
5 Valve Size 160 Series		

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.

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