



Pilot Operated Directional Control Valves

DG3S-H8-*C*-*-20 Spring Centered

DG3S-H8-**-**-20 No Spring

***Note**

Assemble Type 1 and 3 spools with narrow center land toward 'A' end of valve. 'A' end of valve 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 of valve.

Model	□ Screw (4 req'd)	Bolt Kit
Without Pilot Choke	473726	—
With Pilot Choke	—	466836
Kits include (4) screws		
Torque to 4.5-5.7 N.m. (39.8 - 50.4 lb. in.)		

Model	Spool	I.D. Plate	
		"C"	No Spring
DG3S-H8-0(C)*-**-20	786350	400976	400975
DG3S-H8-1(C)*-**-20	*786557	400977	—
DG3S-H8-2(C)*-**-20	786349	400978	400975
DG3S-H8-3(C)*-**-20	*786558	400979	—
DG3S-H8-4(C)*-**-20	628162	400980	—
DG3S-H8-6(C)*-**-20	786559	400981	400975
DG3S-H8-8(C)*-**-20	627221	400980	—
DG3S-H8-9(C)*-**-20	786561	400976	400975
DG3S-H8-31(C)*-**-20	*786558	580475	—
DG3S-H8-33(C)*-**-20	786562	400981	—

Spool (See table)

786523 Washer

783665 Spring

▲ 262403 "O" Ring

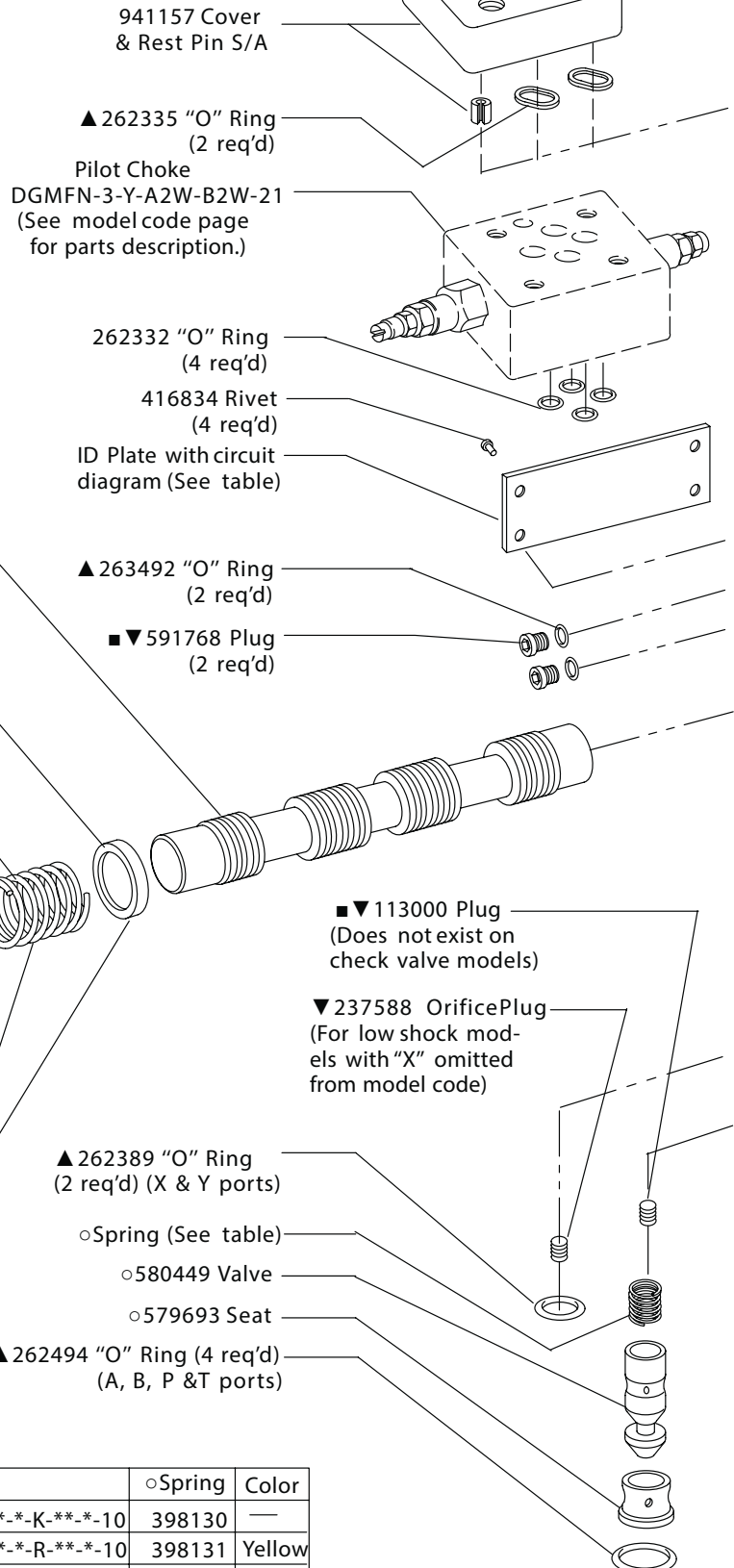
573674 Cover

◇ 470884 Screw (4 req'd)
Torque 49-59 N.m.
(36-43.5 lb. ft.)

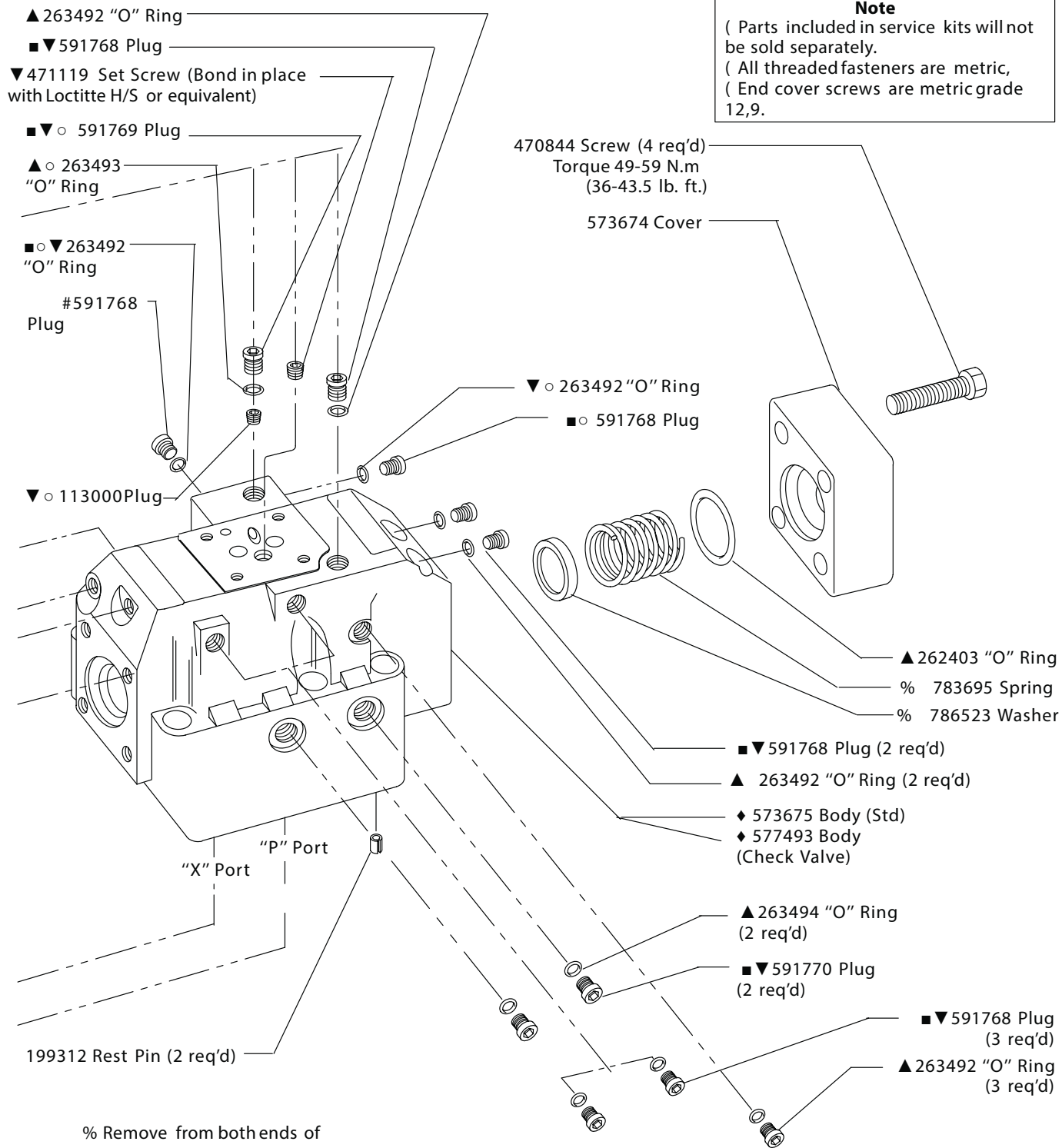
Remove Spring & Washer from both ends of valve on No-Spring models.

■ Plug torques (oiled)

Plug	Torque (N.m.)	Torque (lb. in.)
113000	5.0 - 5.9	45-52
591768	9.8 - 10.2	87-90
591769	12.1 - 12.4	107-110
591770	15.0 - 16.6	133-147

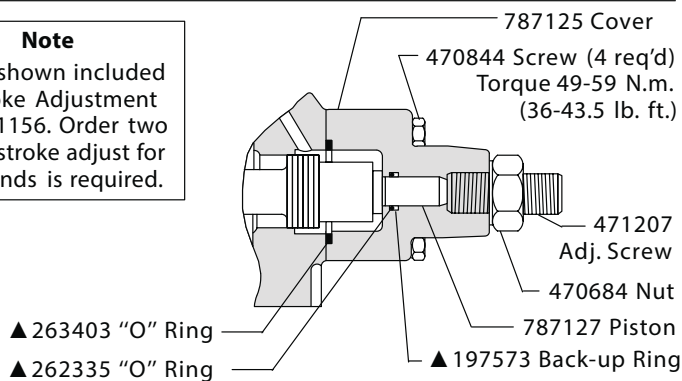


Model	○ Spring	Color
DG3S-H8-(C)*-**-K-**-10	398130	—
DG3S-H8-(C)*-**-R-**-10	398131	Yellow
DG3S-H8-(C)*-**-S-**-10	398132	Red



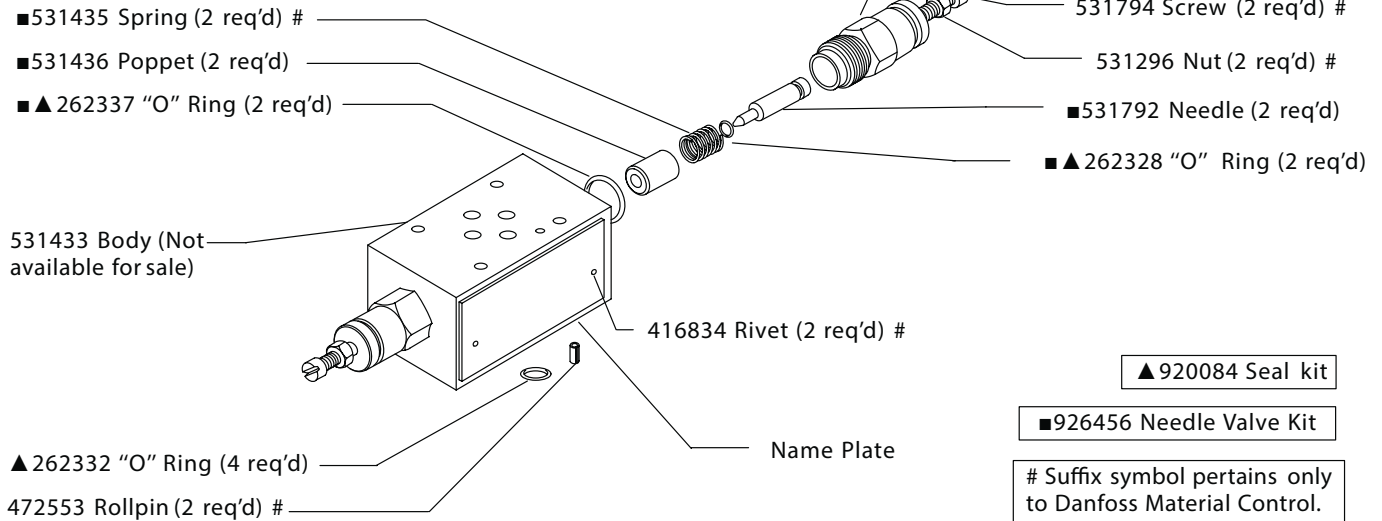
- ▲ Included in F3 Seal Kit 920137
- ◇ Included in Fastener Kit 941175
- Included in Fastener Kit 941164
- ▼ Included in Plug Kit 941167
- ♦ Not available for sale
- Used on Check Valve models only

Note
 Parts shown included in Stroke Adjustment Kit 941156. Order two kits if stroke adjust for both ends is required.



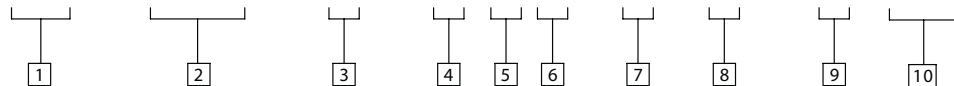
Pilot Choke

DGMFN-3-Y-A2W-B2W-21



Model Code

(F3) - DG3S - H8 - * * * - * - * - 20 (LH)



1 Seal Material

F3 - Special seals for mineral oil or fire resistant fluid

2 Model Series

DG3S - Directional valve, subplate mounted, pilot operated, rated pressure 210 bar (3000 psi)

3 Interface (High Flow)

H8 - CETOP 8

4 Spool Type

5 Valve Type

C - Spring centered
(Omit for no-spring models.)

6 Fast Response "X"

(Omit for standard models.)

7 Spool Control Modification

(Omit when not required)

2 - Pilot choke adjustments

7 - Stroke adjustment, cylinder "A" end only

8 - Stroke adjustment, cylinder "B" end only

2-7 - If both are required

2-8 - If both are required

8 Check Valve in Pressure Port

(Omit when not required.)

K - 0,35 bar (5 psi)

S - 5,20 bar (75 psi)

9 Design

10 Offset to "B"

(Omit for std. offset to "A" models.)

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 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

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:

Hydro-Gear

www.hydro-gear.com

Daikin-Sauer-Danfoss

www.daikin-sauer-danfoss.com

**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