



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	—

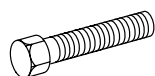
Spool (See table)

786523 Washer

783665 Spring

▲262403 "O" Ring

573674 Cover



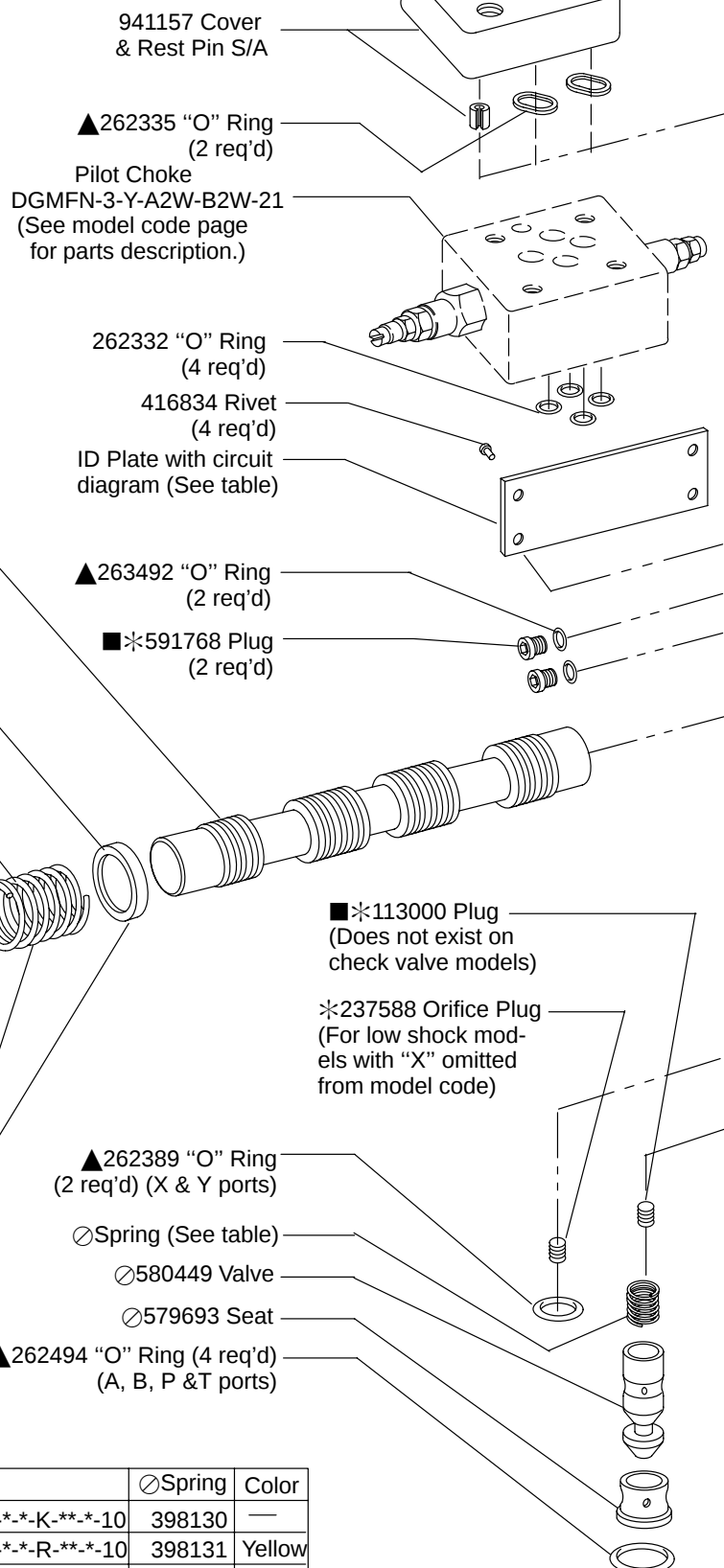
◇470884 Screw (4 req'd)
Torque 49-59 N.m.
(36-43.5 lb. ft.)

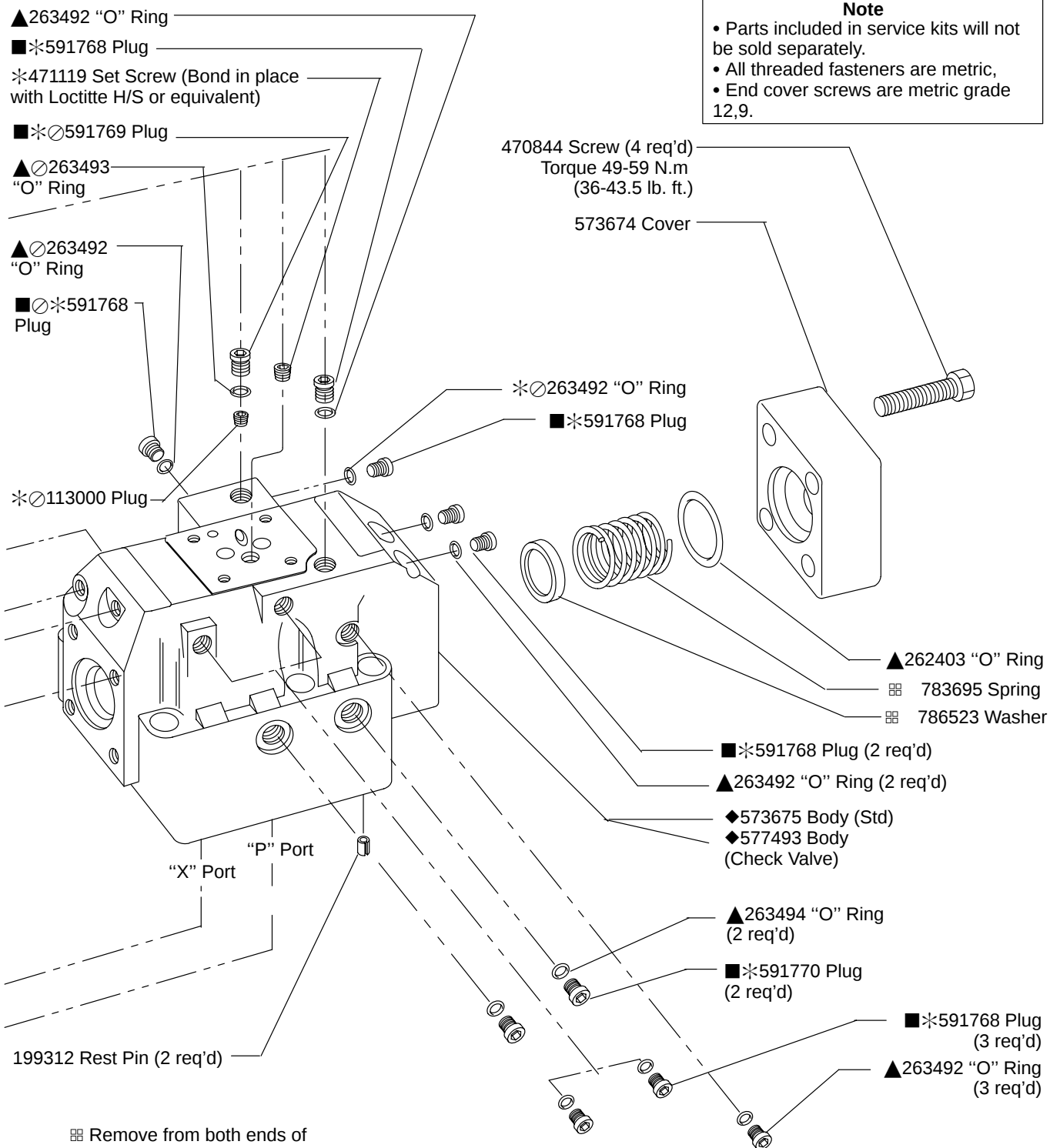
Remove Spring & Washer from both ends of valve on No-Spring models.

■ 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

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

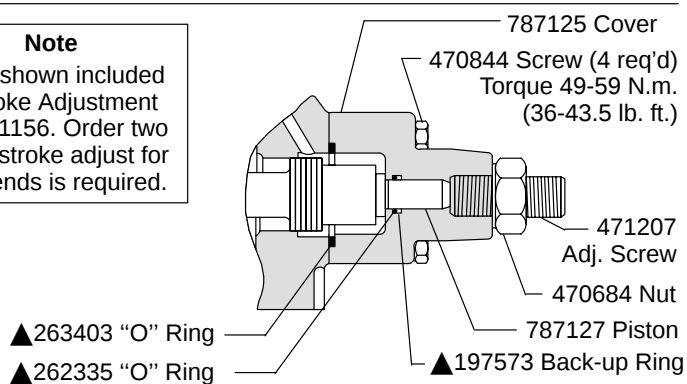




- ▲ Included in F3 Seal Kit 920137
- ◇ Included in Fastener Kit 941175
- Included in Fastener Kit 941164
- * Included in Plug Kit 941167
- ◆ Not available for sale
- Used on Check Valve models only

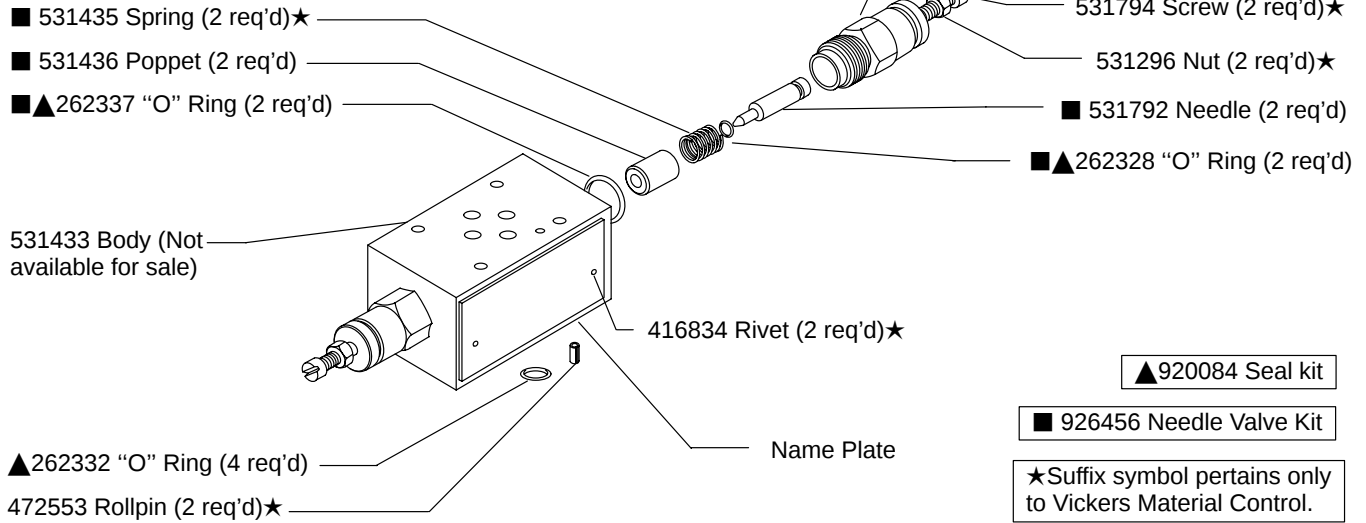
Note

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



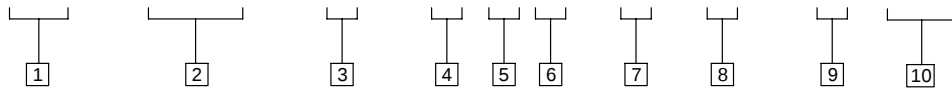
Pilot Choke

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 Eaton OFP, OFR and OFRS filter series are recommended.

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