



# Pilot Operated Directional Control Valves

**(F3)-DG3S-8-\*C\*-\*-10 Spring Centered**

**(F3)-DG3S-8-\*\*\*-\*-10 No Spring**

| Model             | Spool  | I.D. Plate with Circuit Diagram |           |
|-------------------|--------|---------------------------------|-----------|
|                   |        | Spring Center                   | No Spring |
| DG3S-8-0(C)*-*-10 | 363495 | 400976                          | 400975    |
| DG3S-8-1 C*-*-10  | 276623 | 400977                          | —         |
| DG3S-8-2(C)*-*-10 | 363496 | 400978                          | 400975    |
| DG3S-8-3 C*-*-10  | 276625 | 400979                          | —         |
| DG3S-8-4 C*-*-10  | 276626 | 400980                          |           |
| DG3S-8-6(C)*-*-10 | 363498 | 400981                          | 400975    |
| DG3S-8-8 C*-*-10  | 363499 | 400980                          | —         |
| DG3S-8-9(C)*-*-10 | 363500 | 400976                          | 400975    |
| DG3S-8-31 C*-*-10 | 276625 | 580475                          | —         |
| DG3S-8-33 C*-*-10 | 363501 | 400981                          |           |

#### Note

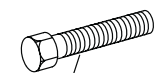
Assemble type '1' and '3' spools with narrow center land towards "A" end of valve. "A" end of valve is defined as being closest to cylinder port A. Type '31' spools are installed in reverse of type '3', with narrow center land toward "B" end of valve.

Spool (See table)

Remove on No-Spring models  
(Both ends of valve)

▲ 262402 "O" Ring

280400 Cover



Ø473784 Screw (4 req'd)  
Torque 49-59 N.m.  
(36-43.5 lb. ft.)

| Δ 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          |

| Cover Attaching Screws                                                  |              |          |
|-------------------------------------------------------------------------|--------------|----------|
| Model                                                                   | Fastener Kit | Bolt Kit |
| Without Pilot Choke                                                     | 941164       | —        |
| With Pilot Choke                                                        | —            | 466836   |
| Kits include (4) screws<br>Torque to 4.5-5.7 N.m. (39.8 - 50.4 lb. in.) |              |          |

941157 Cover  
& Rollpin S/A

▲ 262335 "O" Ring  
(2 req'd)

Pilot Choke (See  
back page for parts)

262332 "O" Ring  
(4 req'd) (Ref.)

472553 Roll pin

127728 Washer

279497 Spring

Δ\*113000 Plug (Does not  
exist on check valve models)

\*237588 Orifice Plug  
(For low shock models  
with "X" omitted  
from model code)

▲ 262339 "O" Ring (2 req'd)  
(X & Y ports)

‡Spring (See table)

‡580449 Valve

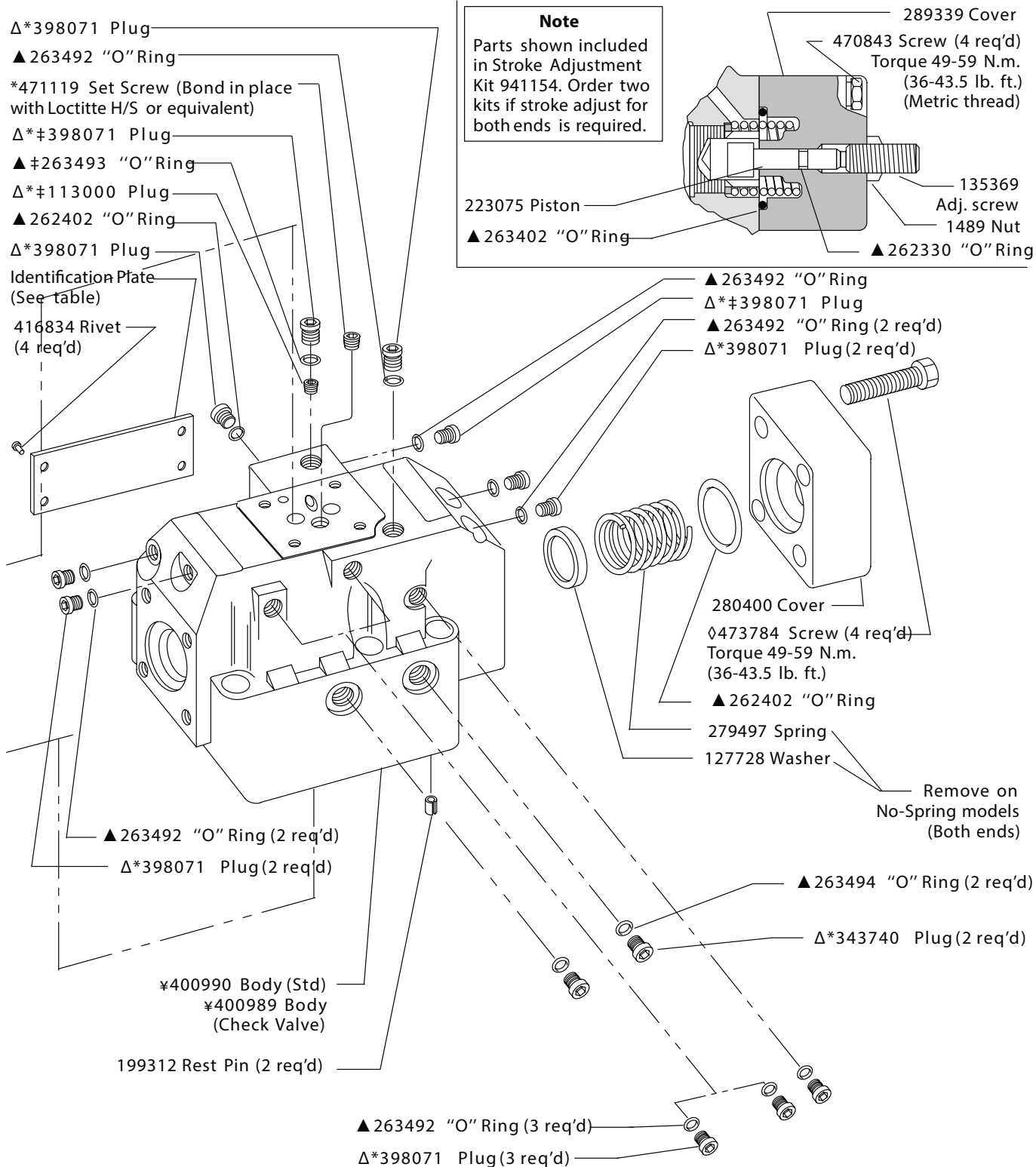
‡580450 Seat

▲ 263494 "O" Ring (4 req'd)  
(A, B, P & T ports)

#### Note

- Part numbers included in service kits will not be sold separately.
- All threaded fasteners are metric.
- End cover screws are metric grade 12.9.

| Model               | ‡Spring | Color  |
|---------------------|---------|--------|
| DG3S-8-*(C)*-*-K-10 | 398130  | —      |
| DG3S-8-*(C)*-*-R-10 | 398131  | Yellow |
| DG3S-8-*(C)*-*-S-10 | 398132  | Red    |



▲ Included in F3 Seal Kit 920149

Ø Included in Fastener Kit 941165

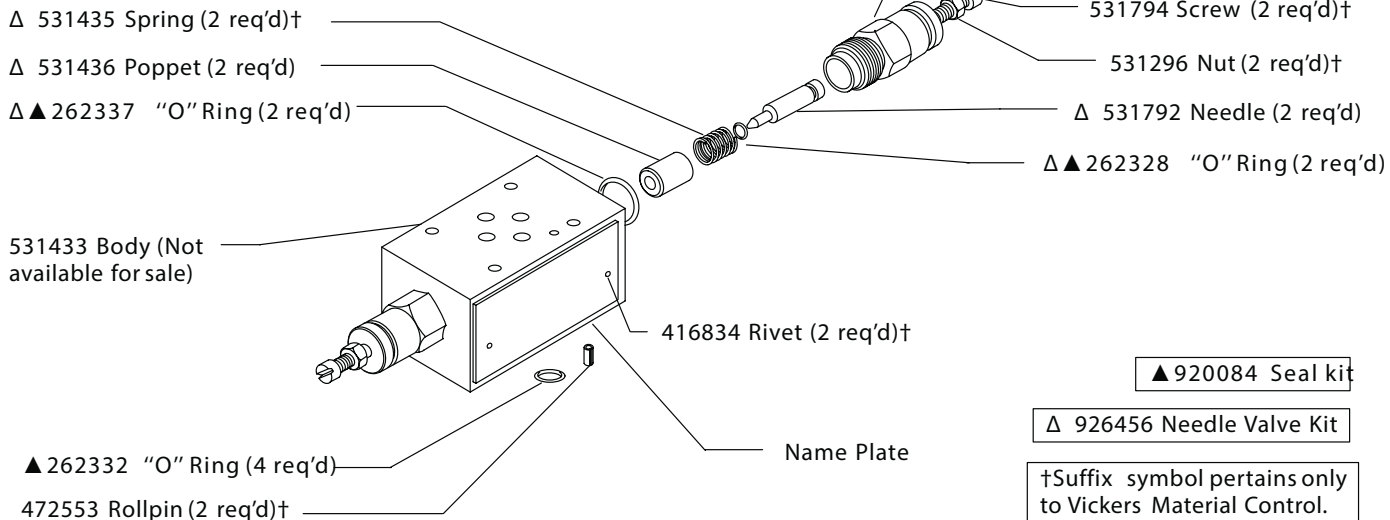
\* Included in Plug Kit 941167

¥ Not available for sale

‡ Used on Check Valve models only

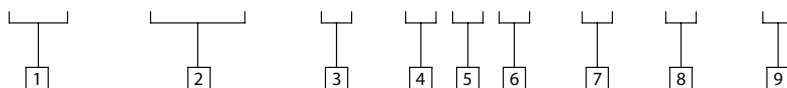
## Pilot Choke

### DGMFN-3-Y-A2W-B2W-21



## Model Code

**(F3) - DG3S - 8 - \* \* \* - \* - \* - 10**



#### 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

**8** - CETOP 8

#### 4 Spool Type

#### 5 Spring Centered "C"

(Omit for no-spring models)

#### 6 Fast Response "X"

(Omit for standard models)

#### 7 Spool Control Modification

(Omit when not required)

- 1** - Stroke adjustments
- 2** - Pilot choke adjustments
- 3** - Pilot choke & stroke adjustments
- 7** - Stroke adjustment, cylinder "A" end only
- 8** - Stroke adjustment, cylinder "B" end only

#### 8 Check Valve in Pressure Port

(Omit when not required)

- K** - 0,35 bar (5 psi)
- R** - 3,45 bar (50 psi)
- S** - 5,20 bar (75 psi)

#### 9 Design

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

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