

Vickers By Danfoss

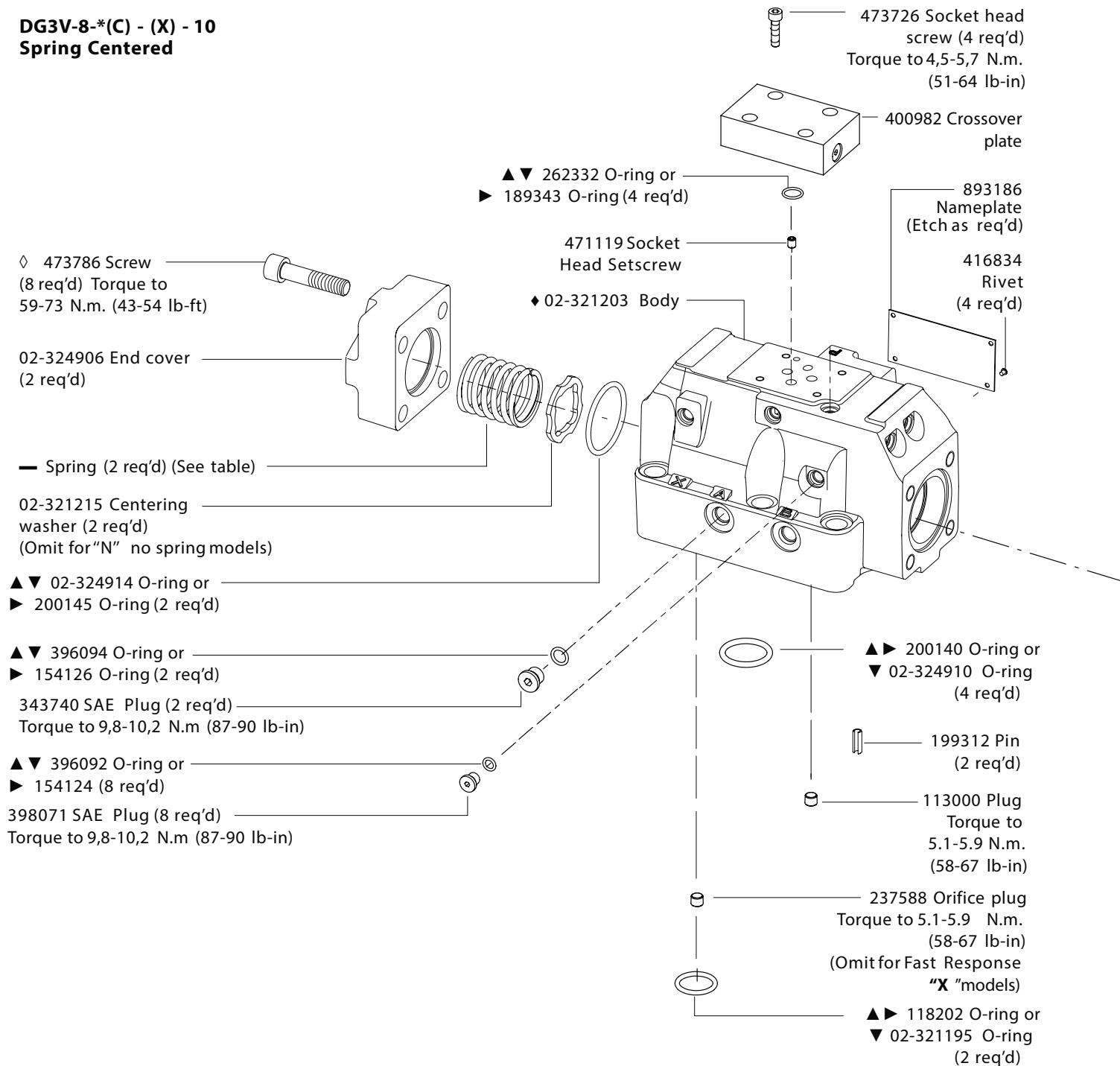
Directional Valves



Hydraulic Operated Directional Valves

(F*) –DG3V –8 (B) –** –(L) –(X) –(*) –(*) –10 –(EN**)

DG3V-8-*(C) - (X) - 10
Spring Centered



— Centering Spring Options

Part No.	Description	Spool Types
783665	Centering Spring •	2,3,6,7,31,33,52,521
02-321216		0,1,11,9
926840		4,8

• Omit centering springs for "N" No Spring models

- ▼ Included in 02-329323 F3 Seal Kit
- Included in 02-330405 F6 Seal Kit
- ▲ Included in 02-330404 Standard Seal Kit
- Included in 02-329322 Stroke Adj. Kit
- ◇ Included in 02-329325 Fastener Kit
- ◆ Not available for sale

Seal Kit Note:

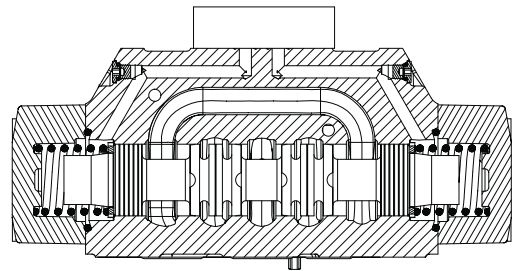
All internal seals of the mainstage are F3 (Viton®). Mounting face seals are standard (Buna-N). F6 seals are special (Nitrile) and are used throughout the valve assembly.

®Viton is a registered trademark of E.I. DuPont

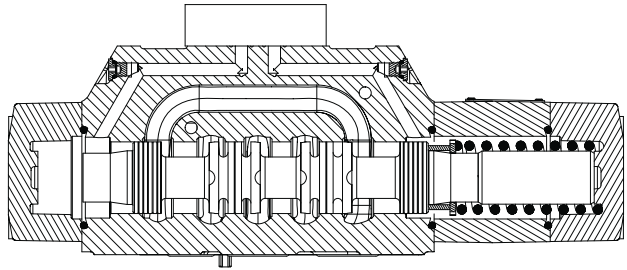
■ Spool Type	Part Number
0	02-324575
1	02-324576■
2	02-324577
3	02-324578■
4	02-324579
6	02-324580
7	02-324581
8	02-324582
9	02-324583
11	02-324576□
31	02-324578□
33	02-324584
52	02-324585□
521	02-324585■

■ Assemble with narrow center land towards "A" end of valve.

□ Assemble with narrow center land towards "B" end of valve.

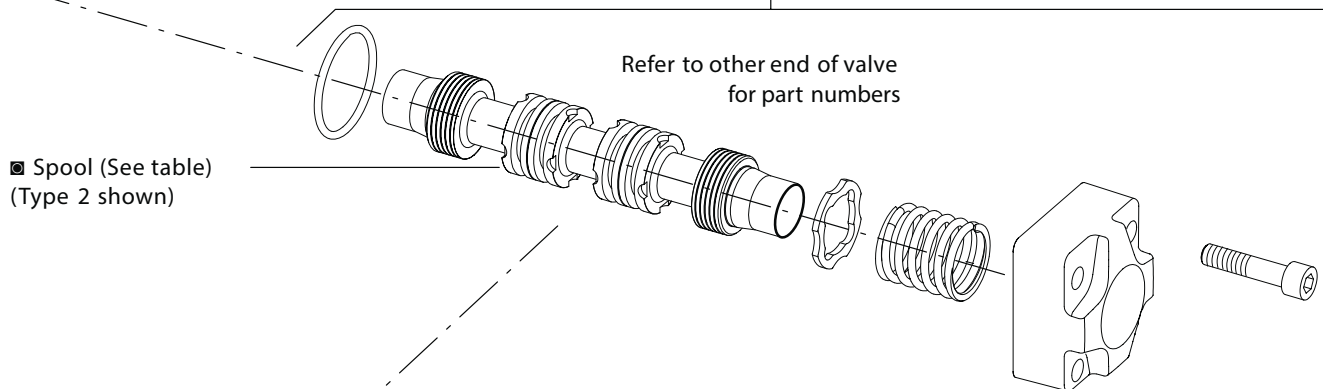


Spring Centered Cross Sectional View
DG3V-8-*(C)-(X)-10

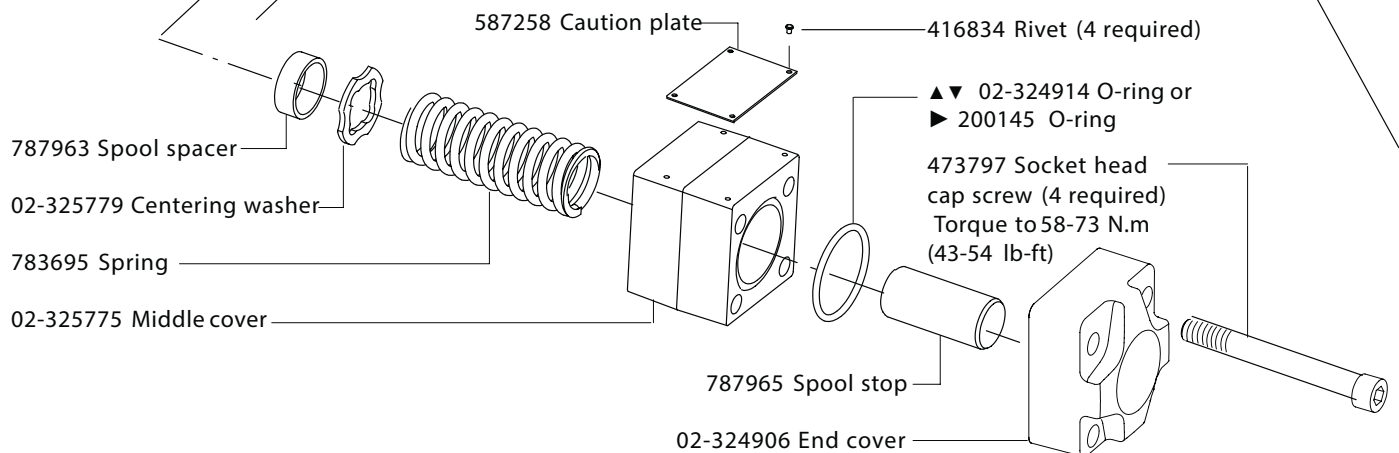


Spring Offset Cross Sectional View
DG3V-8-*(A(L)-(X)-10

DG3V-8-*(C) - (X) - 10 Spring Centered



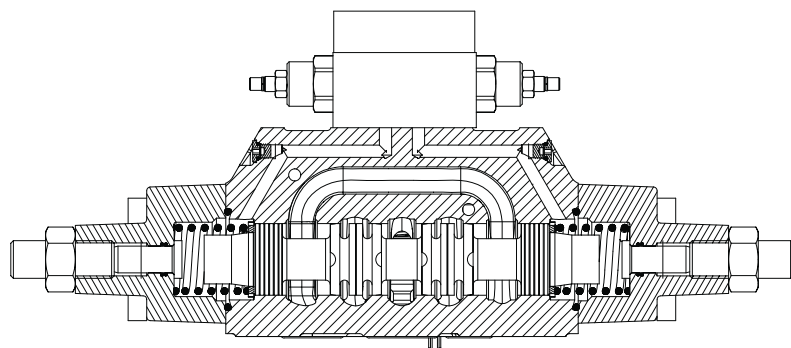
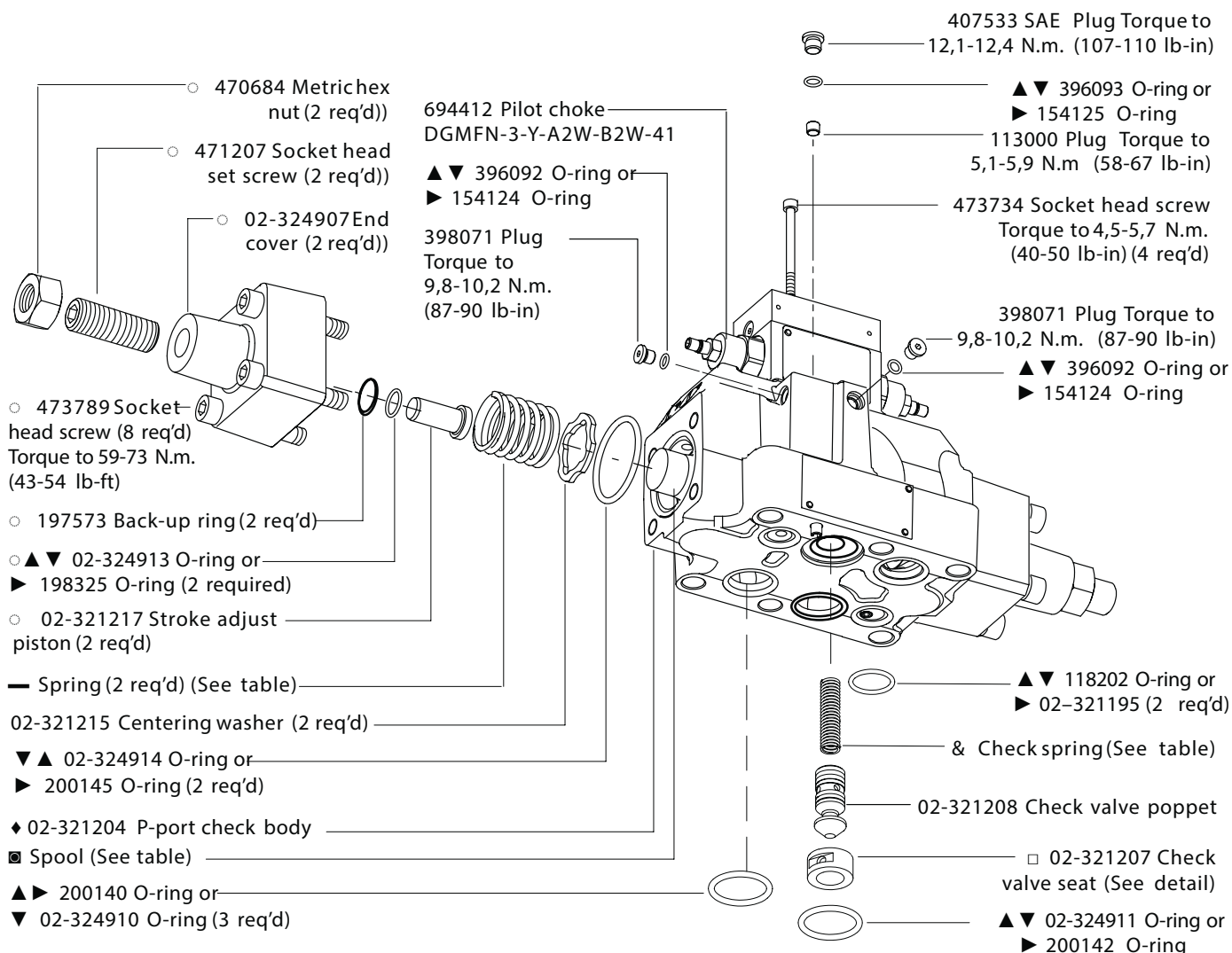
DG3V-8-*(A(L) - (X) - 10 Spring Offset



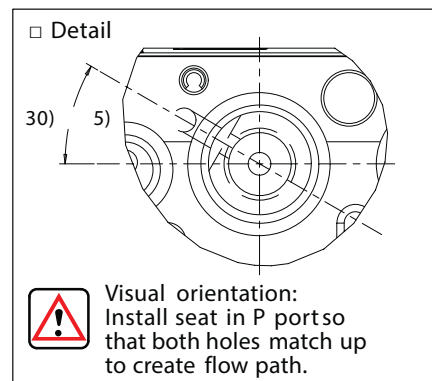
& Check Spring Options

Part No.	Description
02-321211	K -0,3 bar (5 psi) spring
02-321212	Q -2,4 bar (35 psi) spring
02-321213	R -3,4 bar (50 psi) spring
02-321214	S -5,2 bar (75 psi) spring

DG3V-8-*(C)-(X) -*.-10 Spring Centered with Check Valve Options & Stroke Adjustment, Pilot Choke (Refer to model code)

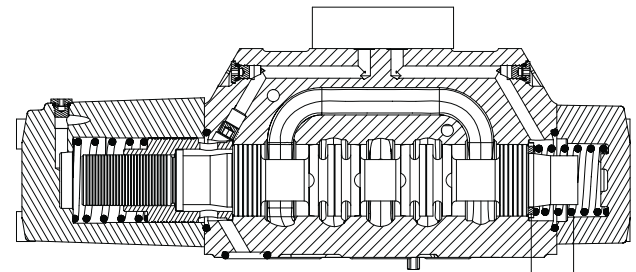


Spring Centered Cross Sectional View
DG3V-8-*(C)-3-K-10
(Pilot Choke and Stroke Adjustment Both Ends)



DG3V-8-*(D) (2/8/28)-10
Pressure Centered with
Spool Control
& Check Valve Options
(Refer to model code)

Pressure Centered Cross Sectional View DG3V-8-*(D)-10



02-321215 Centering washer

— Centering spring (See table)

473797 Socket Head
Screw (4 req'd)
Torque to 59-73 N.m
(43-54 lb-in)

398071 Plug
Torque to 9,8-10,2 N.m.
(87-90 lb-in)

▲▼ 396092 O-ring
► 154124 O-ring

▲▼ 02-324919 O-ring
► 200183 O-ring

▲▼ 02-324914 O-ring or
► 200145 O-ring (2 req'd)

■ Spool (See table)

473786 Socket Head
Screw (4 req'd)
Torque to 59-73 N.m
(43-54 lb-in)

02-324916 End Cover

02-325778 Spring

02-324917 Piston sleeve

02-324918 Piston

7074 Plug
Torque to 8,5-9,6 N.m. (96-108 lb-in)

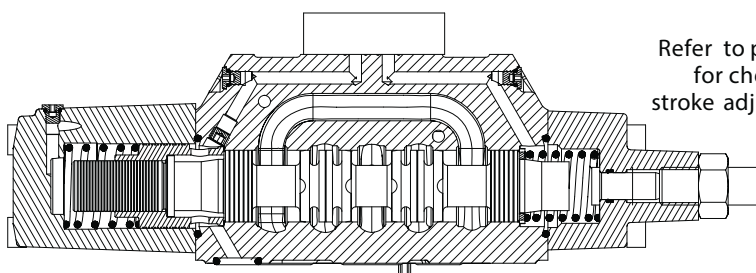
◆ 02-321205 Pressure centered body
◆ 02-321206 Pressure centered body
with check

▲▼ 02-321195 O-ring or
► 118202 O-ring

▲▼ 200140 O-ring or
► 02-324910 O-ring (4 req'd)

▲▼ 118202 O-ring or
► 02-321195 (2 req'd)

02-324906 End Cover

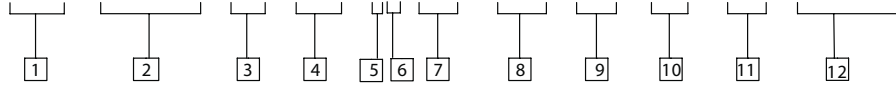


Refer to previous page
for check valve and
stroke adjustment parts

Pressure Centered Cross Sectional View DG3V-8-*(D)-10
 (Stroke Adjustment on Cylinder "B" End Only)

Model Code

(F*) - DG3V - 8 - (B) - ** (L) - (X) - (*) - (*) - 10 - (EN**)



1 Special Seals

(Omit if not required)

F3 - Seals for fire resistant fluids.

F6 - Seals for water glycol.

2 Directional Control Valve

DG3V - Subplate mounting; hydraulic operated. Pressure rating 350 bar (5000 psi) for all ports.

3 Valve Size

8 - Valve size CETOP 8, NFPA D08

4 Gauge Ports

Blank - .4375-20 UNF-2B Thread
B - ¹/₄BSP Thread

5 Spool Types

- 0** - Open to T all ports
- 1** - Open P&A to T, closed B
- 2** - Closed to T all ports
- 3** - Closed P&B, open A to T
- 4** - Tandem P to T, closed crossover
- 6** - Closed P only, open A&B to T
- 7** - Open P to A&B, closed T
- 8** - Tandem P to T, open crossover
- 9** - Open to T all ports over tapers
- 11** - Open P&B to T, closed A
- 31** - Closed P&A, open B to T
- 33** - Closed P, open A&B to T over tapers
- 52** - Closed center, regen. by sol. 'A'
- 521** - Closed center, regen. by sol. 'B'

6 Spool/Spring Arrangement

Blank - No spring

A - Spring offset to cylinder 'A'

C - Spring centered

D - Pressure centered 140-210 bar (2000 - 3000 psi)

7 Left Hand Build

L - A Models only, omit if not required.

8 Fast Response

(Omit for standard low shock models)

X - Not recommended for pilot pressures above 210 bar (3000 psi).

9 Spool Control Modifications

(Omit if not required)

- 1** - Stroke adjustment (both ends) (available on C & Blank (no spring) models)
- 2** - Pilot choke adjustment (available on all models)
- 3** - Pilot stroke and stroke adjusters (both ends) (available on C & Blank (no spring) models)
- 7** - Stroke adjusters on cylinder A end only (available on A, C & Blank (no spring) models)
- 8** - Stroke adjusters on cylinder 'B' end only (available on A, C, & Blank (no spring) models)
- 27** - If both are required (available on A, C, & Blank (no spring) models)
- 28** - If both are required (available on AL left hand build, C & Blank (no spring) models)

Note: Single Offset models with stroke adj:
DG3V-8-***A** with stroke adj available as type **8** or **28** only
DG3V-8-***AL** with stroke adj available as type **7** or **27** only

Note: Stroke adjustment available as type **8** or **28** option only when used in combination with a Pressure Centered -**D** model.

10 Check Valve in Pressure Port

(Omit if not required)

K - 0,35 bar (5 psi) check

Q - 2,42 bar (35 psi) check

R - 3,45 bar (50 psi) check

S - 5,20 bar (75 psi) check

11 Design Number

Subject to change. Installation dimensions remain as shown for design numbers 10 through 19.

12 Special Modifications

(Omit if not required)

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
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- 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

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