

Directional Controls



Lever/Cam Operated Miniature 4-Way Directional Valve

DG17V-3-(2)(L)-40**

DG20V-3-(2)(L)-40**

*** Note**

Collar location shown for "A" models at lever position #3. If lever position #1 is desired, locate collar behind spring to obtain "A2". See model code.

Note

Assemble center line of roller lever S/A parallel to pivot shaft slot.

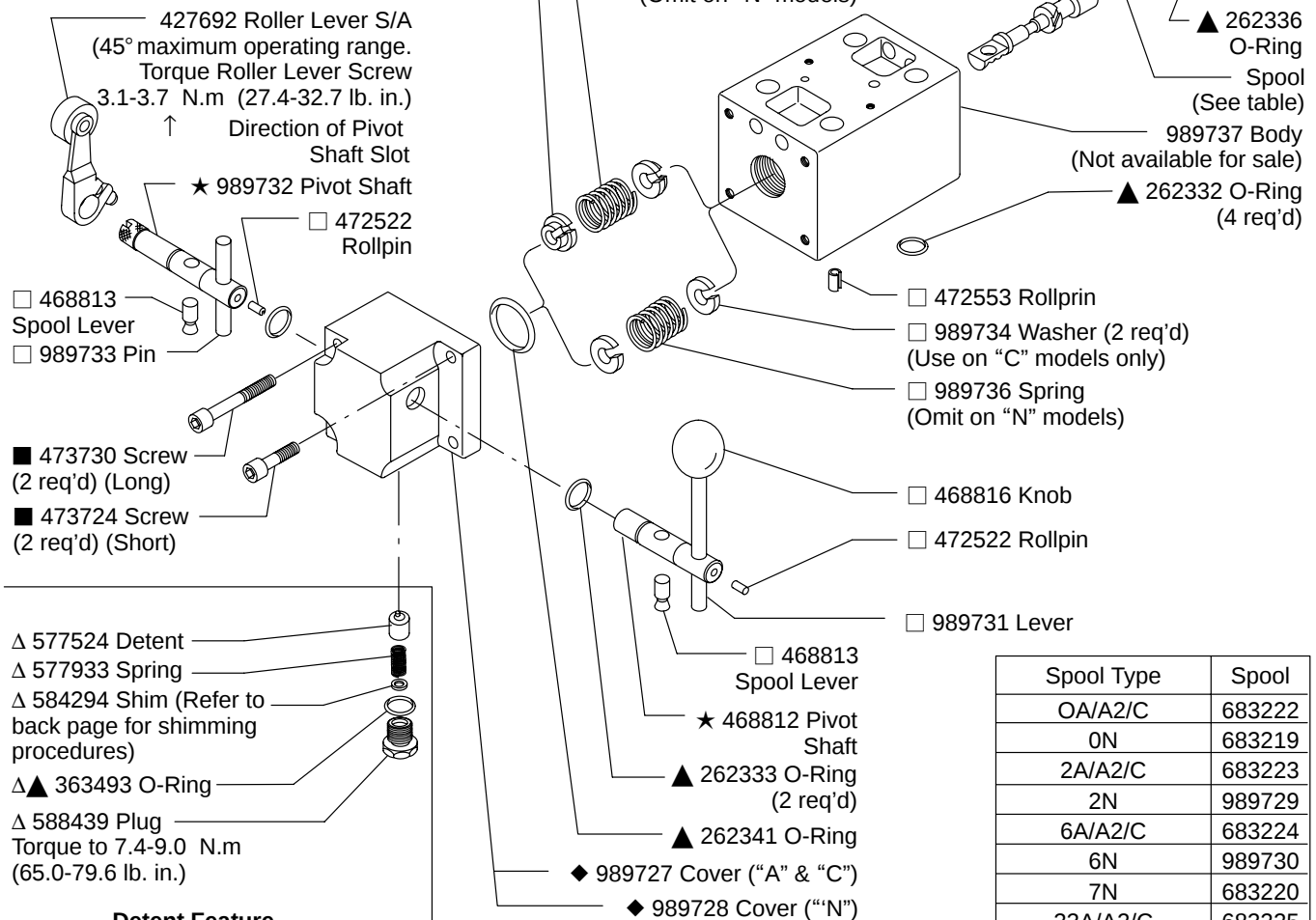
⊖ Assemble Pilot Shafts from the side of cover of shown.

Parts prefixed with ▲△ and ■ sold in kit form only.

◆ Not available for sale.

As this complete unit can be replaced at a nominal cost, factory repair is not practical. Kits are available to support customer repair.

Right Hand Assembly shown. For left hand, all parts, except body, are reversed. Change the Nameplate Label to reflect new model code.



Detent Feature ("N" models only)

▲ Included in 920324 Seal Kit

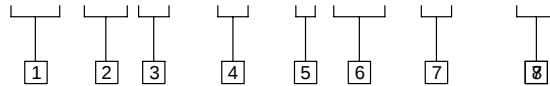
■ 926482 Fastener Kit
Torque 7.4-9.0 N.m (65.0-79.6 lb. in.)

Δ Included in 941219 Detent Kit

Spool Type	Spool
OA/A2/C	683222
0N	683219
2A/A2/C	683223
2N	989729
6A/A2/C	683224
6N	989730
7N	683220
33A/A2/C	683225
33N	683221

Model Code

DG ** V - 3 - * *(2) (L) - 40



1 Model Series

DG - Directional control valve, manifold or subplate mounted

2 Manual Operation

17 - Lever
20 - Roller cam

3 Rated Pressure

350 bar (5000 psi)

4 Interface

ISO-4401-03
NFFA-D01

5 Spool Types

0, 2, 6, 7 & 33

6 Spool Spring Arrangement

A - Spring offset to No. 3 position
A2 - Spring offset to No. 1 position
C - Spring centered
N - No spring detented

7 Assembly

L - Left hand assembly lever/roller cam located on "B" end.
Omit for standard right hand assembly

8 Design

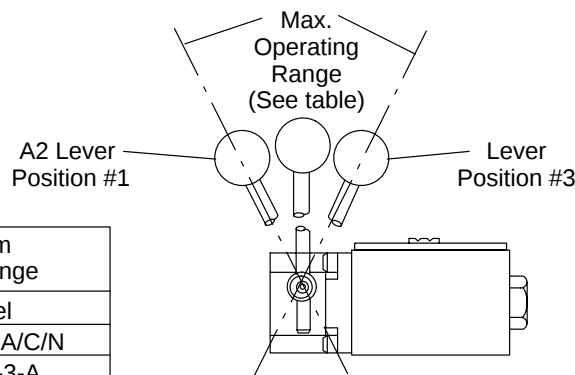
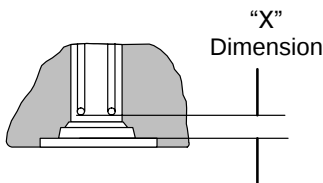
Shimming Procedure

If replacement of the spool, detent, or spring is required, perform the following procedure to maintain a nominal detent force of 5kg., (11 lbs.), on detented "N" models only.

1. Turn valve over so porting is up.
2. Install detent and spring into valve cover. Make sure detent is located in a groove of the spool.

3. Measure "X" distance between top of spring and spot face.
4. Use this measurement to determine shims from table.
5. Install shims and tread plug in place with a torque of 7.4-9.0 N.m (65.0-79.6 lb. in.)

"X" Dimension		Shims req'd.
mm.	in.	
1.39	.054	0
1.40 - 1.70	.055 - 0.67	1
1.71 - 2.00	.068 - .080	2
2.01 - 2.30	.081 - .093	3
2.31 - 2.60	.094 - .106	4



Lever/roller cam Max. operating range	
Range	Model
50°	DG17V-3-A/C/N
45°	DG20V-3-A
40°	DG20V-3-C/N

Available in Lot Kits (25 pcs.)	
Part #	Kit #
468641	944012
468813	944016
468816	944021
472522	944022
472553	944008
989731	944030
989733	944017
989734	944020
989735	944018
989736	944023

For satisfactory service life of these components in industrial applications, use full flow filtration to provide fluid which meets ISO cleanliness code 20/18/15 or cleaner. Selections from Eaton OFP, OFR and OFRS series are recommended.

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