

Vickers®

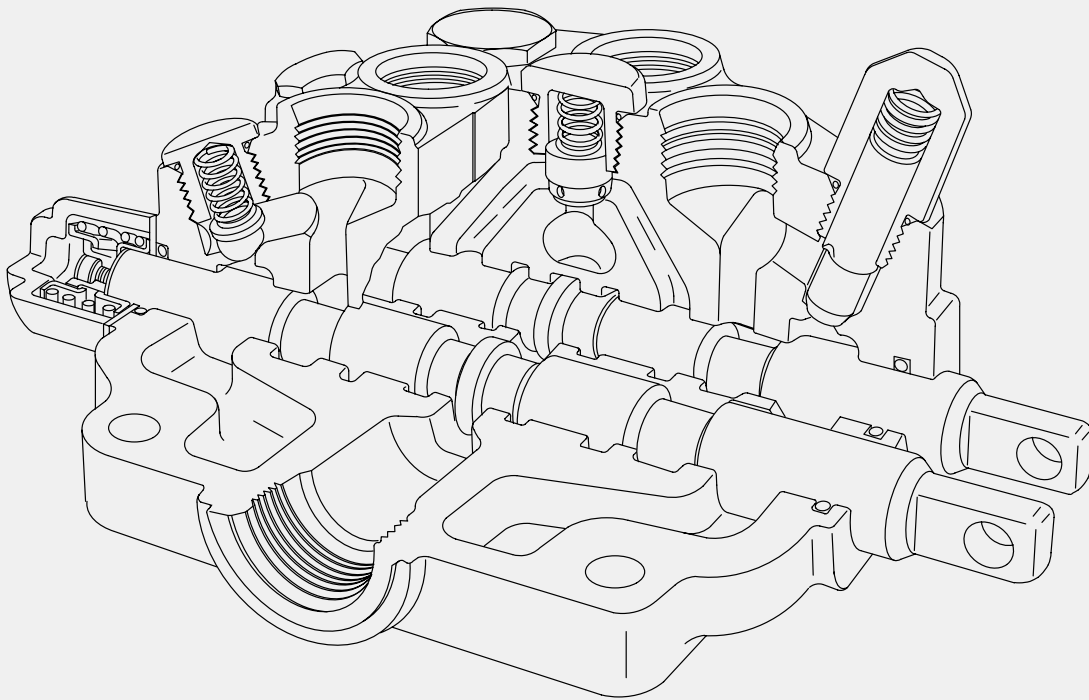
Directional Controls



Service Parts Information

Directional Valves

CMD40 Series - 10 Design



VICKERS

Revised 10/01/86

M-2421-S

Float Spool Detent

214642 Screw
(2 req'd)
Torque to
10-15 lb. ft.

396925 Spring
1650 Ball
(6 req'd)
354811
Ball Guide

Options

388871
Spring

388872 Spring
Retainer

354812
Ball Retainer

388874
Spool Extension (Float)
Torque to 10-15 lb. ft.

388873 Spacer

353793 O-Ring
Retainer

388870 Spring Retainer
(Upper)

353794 Washer

307951 Dust Shield

354346
End Cap Body

3 Position Detent

214873 Screw
(2 req'd)
Torque to
15-20 lb. ft.

353791
Ball Retainer
1650 Ball
(6 req'd)
352838
Ball Guide

355587 Spring

395211 Spring

353793
O-Ring
Retainer

322388
Retainer

393915
Spacer

353797 End Cap
Body

353795 Spool Extension (Detent)
Torque to 15-20 lb. ft.

393928 Washer

See
Assembly
Procedure

**Hydraulic End Cap
3 Position**

1033 Screw (8 req'd)
Torque to 9-12 lb. ft.

434351 End Cap (4 req'd)

434345 Spring Guide
(4 req'd)

434346 Spring Guide
(4 req'd)

199816 O-Ring
(4 req'd)

434353 Spring
(4 req'd)

Note

Spool Changes with Hydraulic End Caps

Body & Spools not sold separately.
Order a new Valve.

1236 Screw
(4 req'd)
Torque to 8-10 lb. ft.

310957 End Cap (2 req'd)

1050 Screw (2 req'd)
Torque to 20-25 lb. ft.

322388 Retainer
(2 req'd)

242079 Guide
(2 req'd)

206772 Spring
(2 req'd)

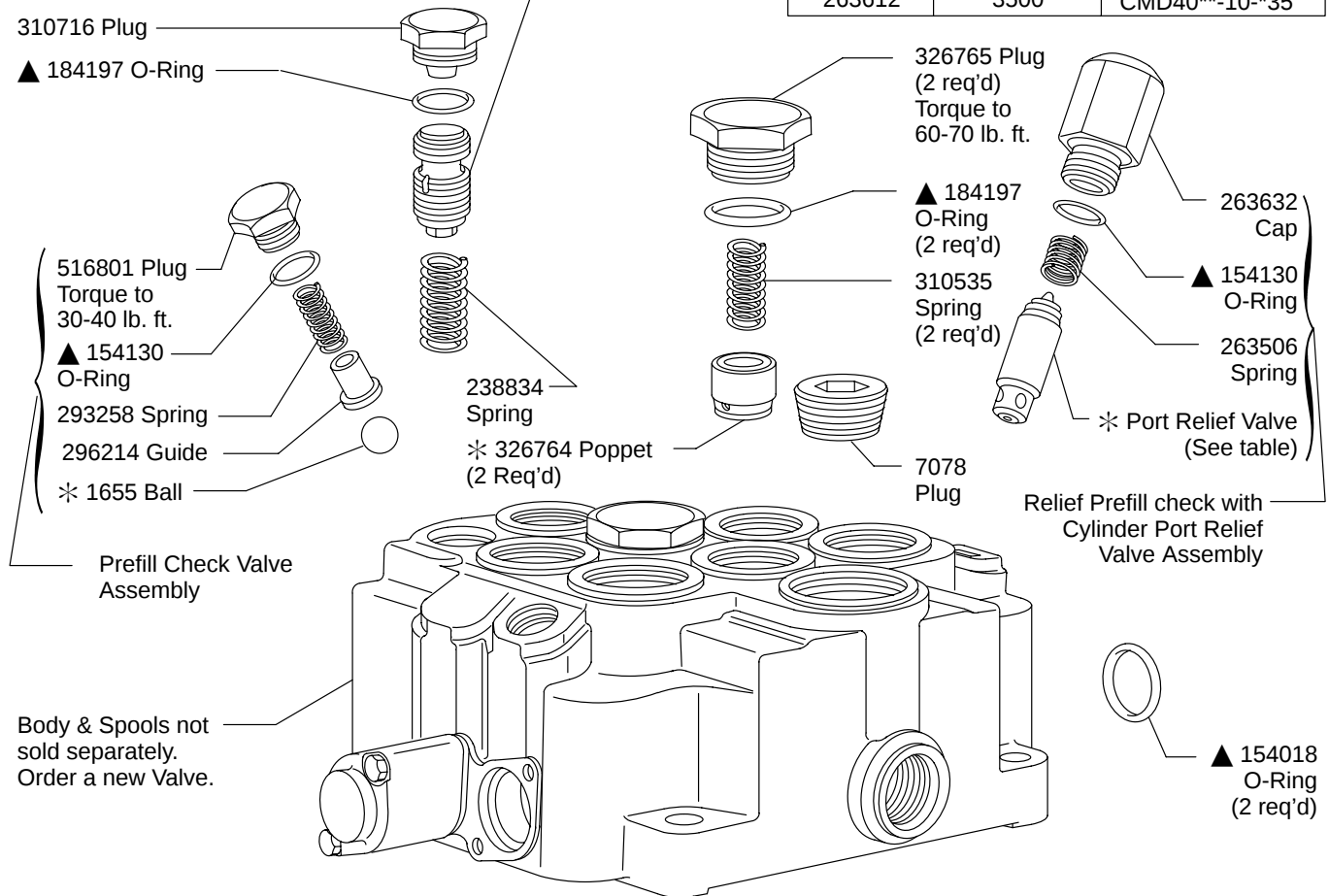
311658 Retainer
(2 req'd)

▲ 154018
O-Ring
(2 req'd)
(Not used with hydraulic
end caps - both ends)

▲ Serviced In Seal Kit 923419

Model Designation	Relief Setting (psi)	Relief Valve Sub-Assy
CMD40**-*07*-10	750	319694
CMD40**-*10*-10	1000	319695
CMD40**-*12*-10	1250	319696
CMD40**-*15*-10	1500	319697
CMD40**-*17*-10	1750	319698
CMD40**-*20*-10	2000	319699
CMD40**-*22*-10	2250	319700
CMD40**-*25*-10	2500	319701
CMD40**-*27*-10	2750	319702
CMD40**-*30*-10	3000	319703

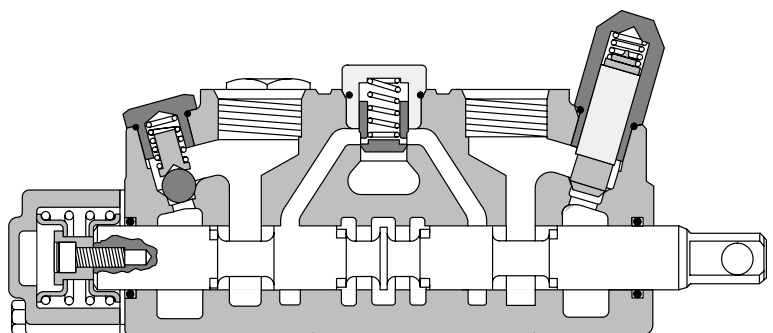
Port Relief Valve Kit *	Relief Setting (psi)	Model Designation
263601	750	CMD40**-10-*07
263602	1000	CMD40**-10-*10
263603	1250	CMD40**-10-*12
263604	1500	CMD40**-10-*15
263605	1750	CMD40**-10-*17
263606	2000	CMD40**-10-*20
263607	2250	CMD40**-10-*22
263608	2500	CMD40**-10-*25
263688	2750	CMD40**-10-*27
263610	3000	CMD40**-10-*30
263611	3250	CMD40**-10-*32
263612	3500	CMD40**-10-*35



* Seat into Body before installing Spring & Plug.

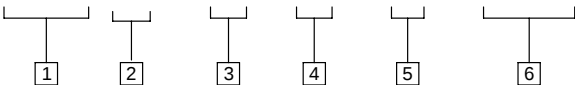
Float and 3 Position Detent Assembly Procedure

1. Insure that spool and detent extension are straight. Straighten if required.
2. Lubricate all parts liberally with water proof grease. Assemble cap and internal parts. Leave mounting screw backed off approximately 2 turns.
3. Shift spool in and out to align internal parts.
4. Cross torque mounting bolts to print requirements.
5. Check to insure there is no bind by rotating spool 360° and shifting spool in and out.



Model Code

CMD 40 - ** - ** - 10 - *****



1 Mobile Directional Valve

2 Valve Capacity - USgpm (Nominal)

40 - 40

3 Integral Relief Valve Settings (psi)

05 - 500	22 - 2250
07 - 750	25 - 2500
10 - 1000	27 - 2750
12 - 1250	30 - 3000
15 - 1500	32 - 3250
17 - 1750	35 - 3500
20 - 2000	

4 Spool Sections

D - Double Acting
R - Regenerative, Double acting, 4 Position
T - Single Acting
W - Reverse Single Acting

5 Design

6 Assembly Number

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 series are recommended.