Vickers®

Directional Controls

Air Pilot Operated Directional Control Valve

DG18V-3-*A/B/F(L)-(P2)-(V)-*-60/61
DG18V-3-*C/N-(V)-*-60/61

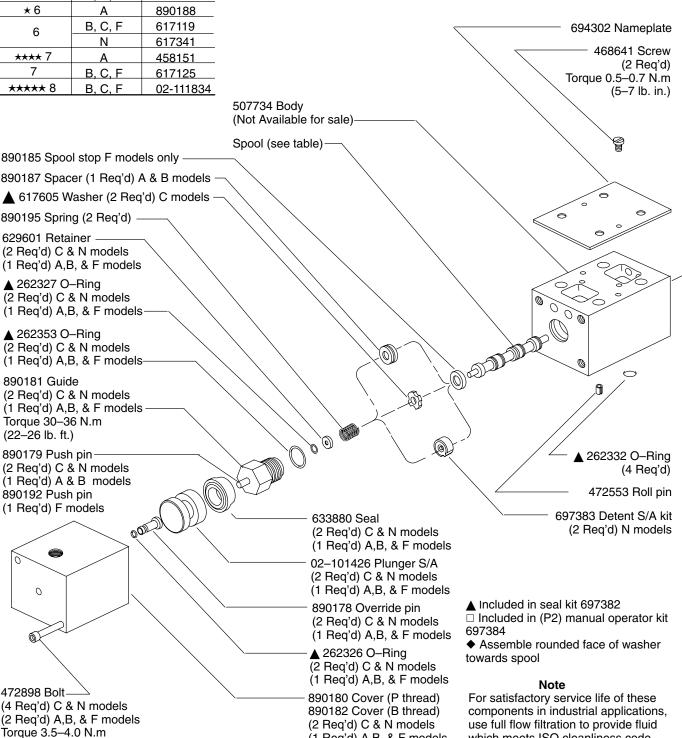| Spool Type	Model	Spool
★ O	A	617498
	B, C, F	617121
	N	890189
★★ 1, 11	B, C, F	458263
★ 2	A	617120
	B, C, F	617118
	N	617126
★★★★ 22	A	617122
★★★ 3, 31	B, C, F	617124
33	B, C, F	617123
★ 6	A	890188
6	B, C, F	617119
	N	617341
★★★★ 7	A	458151
7	B, C, F	617125
★★★★★ 8	B, C, F	02-111834

Spool Assembly Note

★ Assemble type "OA", "2A", and "6A" spool in body with longer end land opposite of operator.

★★ Assemble type "1" spool in body with narrow center land towards "A" port. Assemble type "11" spool in body with narrow center land towards "B" port.

★★★ Assemble type "3" spool in body with narrow center land towards "A" port. Assemble type "31" spool in body with narrow center land towards "B" port.

★★★★ Assemble type "7A" and "22A" spool in body with reduced longer end Dia. towards operator.

★★★★★ " V" Option, operator "A" is at port "A" end of valve and/or operator "B" is at port "B" end of valve, independent of spool type. Type 8 spool valves will always have a "V" present in model code.
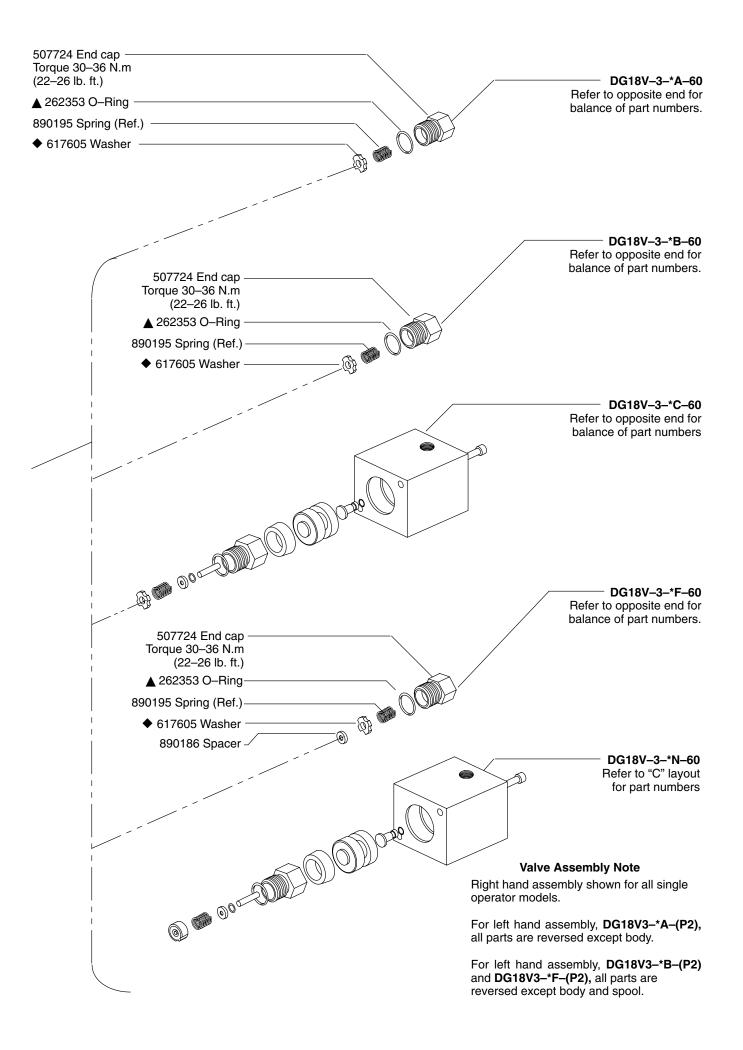

694302 Nameplate

468641 Screw
(2 Req'd)
Torque 0.5–0.7 N.m
(5–7 lb. in.)

507734 Body
(Not Available for sale)

Spool (see table)

890185 Spool stop F models only

890187 Spacer (1 Req'd) A & B models

▲ 617605 Washer (2 Req'd) C models

890195 Spring (2 Req'd)

629601 Retainer
(2 Req'd) C & N models
(1 Req'd) A,B, & F models

▲ 262327 O–Ring
(2 Req'd) C & N models
(1 Req'd) A,B, & F models

▲ 262353 O–Ring
(2 Req'd) C & N models
(1 Req'd) A,B, & F models

890181 Guide
(2 Req'd) C & N models
(1 Req'd) A,B, & F models
Torque 30–36 N.m
(22–26 lb. ft.)

890179 Push pin
(2 Req'd) C & N models
(1 Req'd) A & B models
890192 Push pin
(1 Req'd) F models

▲ 262332 O–Ring
(4 Req'd)

472553 Roll pin

697383 Detent S/A kit
(2 Req'd) N models

633880 Seal
(2 Req'd) C & N models
(1 Req'd) A,B, & F models

02–101426 Plunger S/A
(2 Req'd) C & N models
(1 Req'd) A,B, & F models

890178 Override pin
(2 Req'd) C & N models
(1 Req'd) A,B, & F models

▲ Included in seal kit 697382
☐ Included in (P2) manual operator kit 697384
◆ Assemble rounded face of washer towards spool

▲ 262326 O–Ring
(2 Req'd) C & N models
(1 Req'd) A,B, & F models

890180 Cover (P thread)
890182 Cover (B thread)
(2 Req'd) C & N models
(1 Req'd) A,B, & F models

472898 Bolt
(4 Req'd) C & N models
(2 Req'd) A,B, & F models
Torque 3.5–4.0 N.m
(31–35 lb. in.)

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

507724 End cap
Torque 30–36 N.m
(22–26 lb. ft.)

▲ 262353 O–Ring

890195 Spring (Ref.)

◆ 617605 Washer

DG18V–3–*A–60
Refer to opposite end for
balance of part numbers.

DG18V–3–*B–60
Refer to opposite end for
balance of part numbers.

507724 End cap
Torque 30–36 N.m
(22–26 lb. ft.)

▲ 262353 O–Ring

890195 Spring (Ref.)

◆ 617605 Washer

DG18V–3–*C–60
Refer to opposite end for
balance of part numbers

DG18V–3–*F–60
Refer to opposite end for
balance of part numbers.

507724 End cap
Torque 30–36 N.m
(22–26 lb. ft.)

▲ 262353 O–Ring

890195 Spring (Ref.)

◆ 617605 Washer

890186 Spacer

DG18V–3–*N–60
Refer to "C" layout
for part numbers

Valve Assembly Note

Right hand assembly shown for all single
operator models.

For left hand assembly, **DG18V3–*A–(P2),**
all parts are reversed except body.

For left hand assembly, **DG18V3–*B–(P2)**
and **DG18V3–*F–(P2),** all parts are
reversed except body and spool.

Model Code

DG   18   V - 3 - * * (L) - (P2) - (V) - * - 6 *

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |

1 Directional control valve, subplate mounted

2 Air pilot operated
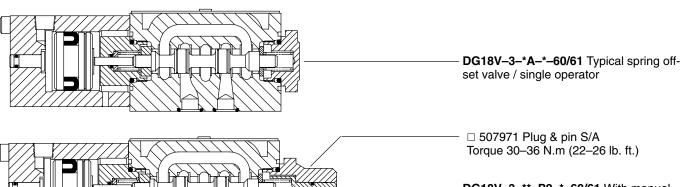
3 Rated pressure

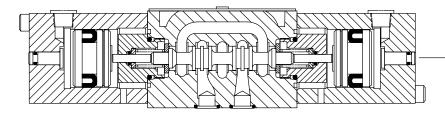350 bar (5000 psi)

4 Interface

ISO 4401–03 (CETOP 3, NFPA D03)

5 Spool type (Center condition)

0 – Open center (All ports)
1 – Open center (P & A to T)
2 – Closed center (All ports)
3 – Closed center (P & B)
6 – Closed center (P only)
7 – Open center (T blocked)
8 – Tandem center (P to T)
11 – Open center (P & B to T)
22 – Closed center (Two–way)
31 – Closed center (P & A)
33 – Closed center (Bleed A & B)

6 Spool spring arrangement

A – Spring offset to CYL. A, (Single operator)
B – Spring centered, (Single operator)
C – Spring centered (Dual operator)
F – Spring offset, to CYL. A, shift to center (Single operator)
N – No–spring, detented

7 Build type

L – Left hand build (Single operator only)
Blank – Standard right hand build (Single operator only)

8 Manual override option

P2 – Manual operator in end cap, (single operators) (Applicable for A(L), B(L) & F(L) models only)
Blank – Overrides in operator end only

9 Actuator identity

V – Actuator identifier included for all type 8 spools (Refer to spool assembly note ★★★★★)

10 Thread connection type

P – 1/8" NPT threads
B – 1/8 BSP threads

11 Design number

60
61

DG18V–3–*A–*–60/61 Typical spring offset valve / single operator

□ 507971 Plug & pin S/A
Torque 30–36 N.m (22–26 lb. ft.)

DG18V–3––P2–*–60/61** With manual operator in end cap / single operator

DG18V–3–*C–*–60/61 Typical spring centered valve / dual operator