



# Flange Mounted Relief Valves with Vent

CPF2\*-06/08/10/12-\*-\*-20

# CPF2S-06/08

CODE	■ PRESSURE ADJ. S/A	MAX. PRESSURE bar (psi)
AW	02-140463	50 (725)
BW	02-140464	100 (1450)
FWG	02-140465	207 (3000)
W	02-140466	275 (4000)
AH	02-140467	50 (725)
BH	02-140468	100 (1450)
FH	02-140469	207 (3000)
GH	02-140470	275 (4000)
AK	02-140471	50 (725)
BK	02-140472	100 (1450)
FK	02-140473	207 (3000)
GK	02-140474	275 (4000)

Torque S/A to 65-75 N.m (48-55 lb.ft.)

- ▲■ 690331 "O"Ring
- ▲■ 893376 Back-up ring
- ▲■ 689294 "O"Ring
- ▲■ 893377 Back-up ring

■ Pressure adj. S/A (See table)

▲◆ 262344 "O"Ring

<sup>5</sup>/<sub>64</sub>" Hex key req'd to lock/unlock set screw

▲◆ 262362 "O"Ring

▲◆ 197600 Back-up ring

◆ 819810 Spring

## TORQUES

Part	N.m	lb.ft.
298137	65-80	48.0-59.0
315932	29-32	21.3-23.6
398071	9.8-10.2	7.2-7.5
473919	29-32	21.3-23.6
977935		
977937	2-4	1.5-3.0
977938		

▲ 262330 "O"Ring  
 ■ 977935 Plug (External Drain Only/ See Caution Note\*\* on next page)

▲ 262393 "O"Ring -06  
 ▲ 262398 "O"Ring -08

▲ Included In Seal Kit 02-301166 (SAE)  
 Included In Seal Kit 02-301167 (BSP)

◆ Included In Cartridge S/A

■ Included In Press. Adj. S/A

■ Bond in place with Loctite 222 or equivalent

Parts prefixed with symbols available only in kits.

## RELIEF VALVE BLOCK

Internal Drain	02-155251
External Drain (Shown)	02-301152 SAE 02-301153 BSP

298137 Screw (4 Req'd)

Relief Valve Block (See table)

398071 Plug

▲ 263492 "O"Ring (2 Req'd)

■ 977937 Orifice

▲ 263492 "O"Ring

398071 Plug

## DG4V3(S)-0BL-\*\*\*-60

Refer to I-3886-S for pilot valve parts breakdown

473728 Pilot valve attaching screws (4 req'd) (Ref.)

Torque 4.5-5.7 N.m (3.3-4.2 lb. ft.)

◆ 02-111938 Poppet & sleeve S/A

▲ 262330 "O"Ring

■ 977938 Orifice

▲◆ 594047 Back-up ring

▲◆ 262362 "O"Ring

■ 977935 Plug ("P" External pilot only)

Plug & "O"Ring (See table) (Internal pilot only)

	SAE	BSP
PLUG	315932	473919
"O"RING	▲ 263496	704766

## CARTRIDGE BLOCK

SIZE	SAE	BSP
06	02-155245	02-155265
08	02-155247	02-155267

# CPF2S/V-10-12

CODE	■ PRESSURE ADJ. S/A	MAX. PRESSURE bar (psi)
AW	02-140463	50 (725)
BW	02-140464	100 (1450)
FW	02-140465	207 (3000)
GW	02-140466	275 (4000)
		350 (5000)
AH	02-140467	50 (725)
BH	02-140468	100 (1450)
FH	02-140469	207 (3000)
GH	02-140470	275 (4000)
		350 (5000)
AK	02-140471	50 (725)
BK	02-140472	100 (1450)
FK	02-140473	207 (3000)
GK	02-140474	275 (4000)
		350 (5000)

Torque S/A to 65-75 N.m (48-55 lb.ft.)

- ▲■ 690331 "O"Ring
- ▲■ 893376 Back-up ring
- ▲■ 689294 "O"Ring
- ▲■ 893377 Back-up ring
- Pressure adj.S/A (See table)

<sup>5</sup>/<sub>64</sub>" Hex key req'd to lock/unlock set screw

### TORQUES

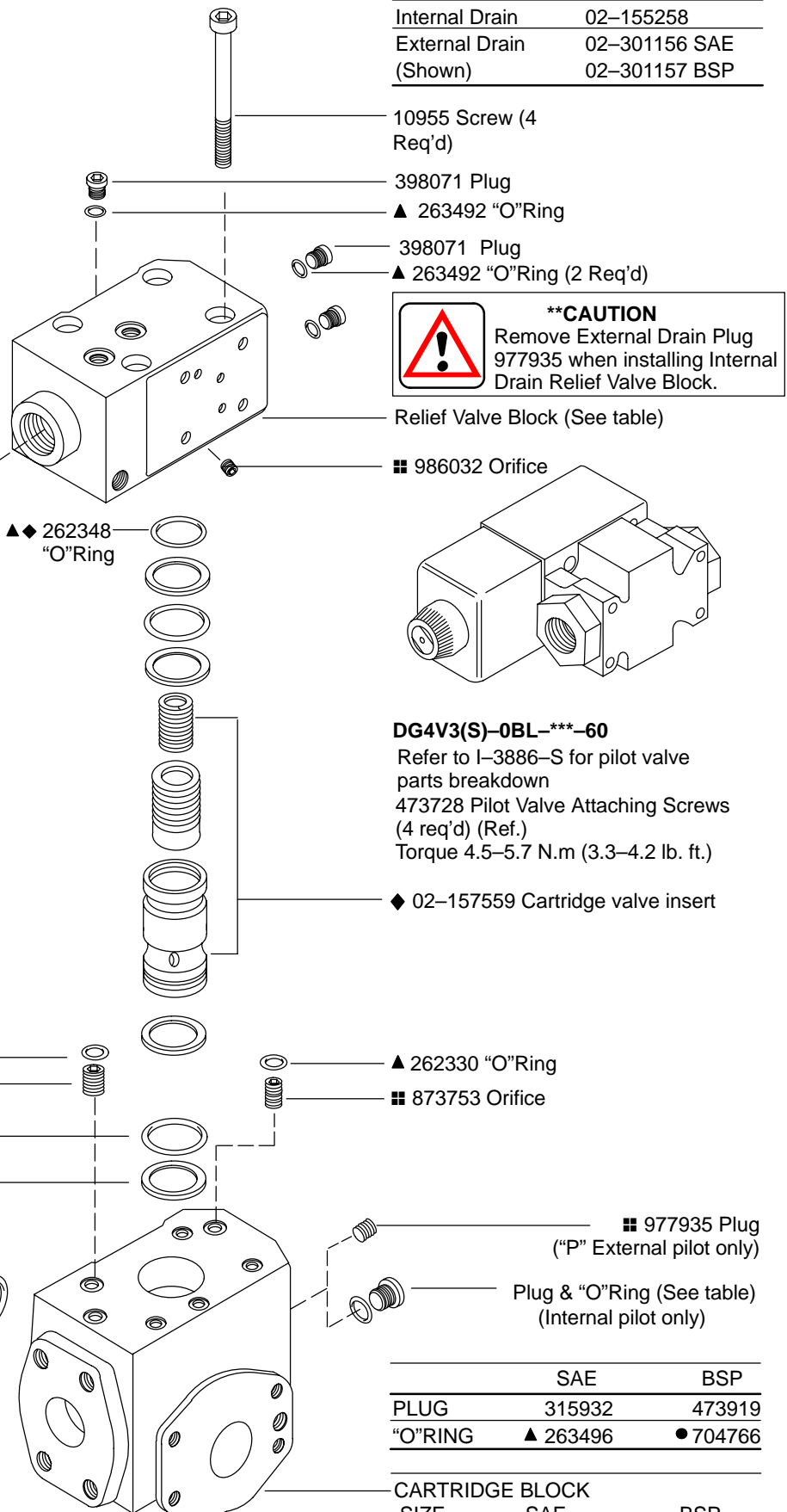
Part	N.m	lb.ft.
10955	110-115	81.1-84.8
315932	29-32	21.3-23.6
398071	9.8-10.2	7.2-7.5
473919	29-32	21.3-23.6
873753		
977935	2-4	1.5-3.0
986032		

- ▲ 262330 "O"Ring
- 977935 Plug (External Drain Only/See Caution Note\*\*)
- ▲◆ 262401 "O"Ring (2 Req'd)
- ▲◆ 277707 Back-up ring (4 req'd)
- ▲ 262399 "O"Ring -10
- ▲ 262402 "O"Ring -12

- ▲ Included In Seal Kit 02-301168 (SAE)
- Included In Seal Kit 02-301169 (BSP)
- ◆ Included In Cartridge S/A
- Included In Press. Adj. S/A

■ Bond in place with Loctite 222 or equivalent

Parts prefixed with symbols available only in kits.



### RELIEF VALVE BLOCK

	SAE	BSP
Internal Drain	02-155258	
External Drain (Shown)	02-301156 SAE	02-301157 BSP

10955 Screw (4 Req'd)

398071 Plug  
▲ 263492 "O"Ring

398071 Plug  
▲ 263492 "O"Ring (2 Req'd)

**\*\*CAUTION**  
Remove External Drain Plug 977935 when installing Internal Drain Relief Valve Block.

Relief Valve Block (See table)

■ 986032 Orifice

### DG4V3(S)-0BL-\*\*\*-60

Refer to I-3886-S for pilot valve parts breakdown  
473728 Pilot Valve Attaching Screws (4 req'd) (Ref.)  
Torque 4.5-5.7 N.m (3.3-4.2 lb. ft.)

◆ 02-157559 Cartridge valve insert

▲ 262330 "O"Ring  
■ 873753 Orifice

■ 977935 Plug ("P" External pilot only)

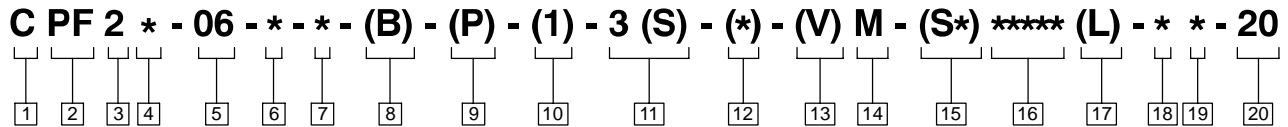
Plug & "O"Ring (See table) (Internal pilot only)

	SAE	BSP
PLUG	315932	473919
"O"RING	▲ 263496	● 704766

### CARTRIDGE BLOCK

SIZE	SAE	BSP
10	02-155254	02-155269
12	02-155260	02-155850
V12	02-155263	02-155852

# MODEL CODE BREAKDOWN



**1 Valve Function**

C - Relief

**2 Mounting Type**

PF - Pump flange mounting

**3 Unit Type**

2 - Single pressure with vent

**4 Flange Type**

S - SAE J518C 4-bolt flange standard series code 61 (All sizes)  
 V - SAE J518C 4-bolt high pressure code 62 (12 size only)

**5 Valve Size**

06 - 3/4 inch  
 08 - 1 inch  
 10 - 1 1/4 inch  
 12 - 1 1/2 inch

**6 Maximum Pressure Adjustment**

A - 50 bar (725 psi)  
 B - 100 bar (1450 psi)  
 F - 207 bar (3000 psi)  
 G - 275 bar (4000 psi) - 350 bar (5000 psi) - (CPF2V-12 models only)

**7 Control Type**

W - Screw adjust with locknut  
 H - Handknob adjust without key  
 K - Micrometer adjust with keylock

**8 Thread Type**

Remote Control/Vent Connection  
 Blank - SAE-6 O-ring boss port (.5625-18 UNF-2B thd.)  
 B - BSP-G 1/4 (1/4" BSPF)  
 Pilot Valve Mounting Threads  
 Blank - 10-24 UNC-2B  
 B - M5-6H x 12

**9 Remote Pilot**

Blank - Internal pilot  
 P - External pilot

**10 Remote Drain**

Blank - Internal drain  
 1 - External drain

**11 Vent Valve**

3 - Standard performance  
 3S - High performance - uses OBL type spool/spring arrangement; other features are optional. Refer to Vickers Service literature I-3886-S.

**12 Manual Override Options**

**13 Solenoid Energization Identification**

**14 Electrical Options Flag**

**15 Spool Position Monitoring Switch**

**16 Solenoid Type/Electrical Connections**

**17 Indicator Lights**

**18 Coil Identification**

**19 Tank Rating Pressure**

2 - 10 bar (145 psi) for spool position indicator models.  
 5 - 100 bar (1450 psi) for standard performance models, DG4V-3(S), with AC or DC solenoids.  
 6 - 210 bar (3045 psi) for high performance models, DG4V-3, with AC solenoids.  
 7 - 210 bar (3045 psi) for high performance models, DG4V-3 with DC solenoids.

**20 Design Number**