

## VICKERS to YUKEN CROSS OVER (D03)

**D   G   4   V   -3   (S)   -0A   -P   L   -M   S1   PA3 -WL -H -9 -A10 40**  
 1   2   3   4   5   6   7   8   9   10   11   12   13   14   15   16   17

	DESCRIPTION	VICKERS	YUKEN
1.	<b>Directional Control Valve</b>	D	DSG
2.	<b>Mounting Type</b> Manifold or Subplate	G	
3.	<b>Solenoid Operated</b>	4	
4.	<b>Rated Pressure 5000PSI</b>	V	
5.	<b>Valve Size/Interface</b> ISO-4401-03, NFPA-D03	3	01
6.	<b>Valve Performance</b> High Performance Standard Performance	Blank 80 l/min S 40 l/min	Blank 60 l/min Blank 60 l/min
7.	<b>Spool/Spring Arrangement</b> Open Center, Spring Offset, Single Solenoid Closed Center, Spring Offset, Single Solenoid Open Center, Spring Centered Closed Center, Spring Centered Closed Center (P Only), Spring Centered Tandem Center, (Open Crossover), Spring Centered Closed Center (Bleed A & B), Spring Centered Open Center, Detent Closed Center, Detent Open Center, Spring Centered, Single Solenoid Closed Center, Spring Centered, Single Solenoid Closed Center (P Only), Spring Centered, Single Solenoid Tandem Center, (Open Crossover), Spring Centered,	0A 2A 0C 2C 6C 8C 33C 0N 2N 0B 2B 6B 8B	2B3 2B2 3C3 3C2 3C4 3C60 3C40 2D3 2D2 2B3B 2B2B 2B4B 2B60B
8.	<b>Manual Operator (In End Cap)</b> Not Required For Single Solenoid Models "A", "B" & "F" Only	Blank P	Blank Standard
9.	<b>Left Hand Assembly</b> For Single Solenoid Models For Standard Right Hand Assembly	L Blank	L- After Design Code Blank
10.	<b>Flag Symbol</b> Electrical Options & Features	M	Disregard
11.	<b>Monitor Switch Option (Spring Offset, "A" Models Only)</b> Unwired Wired N.O. Wired N.C. Not Required	S S1 S2 Blank	Cannot Supply Cannot Supply Cannot Supply Disregard
12.	<b>Electrical Plug-In Options</b> 3-Pin Receptacle (Single Solenoid Models Only) 5-Pin Receptacle "Insta Plug" (With Male and Female Receptacles) Not Required	PA3 PA5 PB Blank	Cannot Supply Cannot Supply Cannot Supply Disregard

31-Dec-01

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	DESCRIPTION	VICKERS	YUKEN
13.	<b>Electrical Options</b>		
	ISO 4400 (DIN 43650) Mounting	U	N
	Connector Fitted w/Lights	U6	N1
	Wiring Box	W	Standard
	Wiring Box w/Lights	WL	Standard
14.	<b>Coil Identification Letter Options</b>		
	110V AC 50Hz	A	A100
	110V AC 50Hz/120V AC 60Hz	B	A120
	220V AC 50Hz	C	A200
	220V AC 50Hz/240V AC 60Hz	D	A240
	12V DC	G	D12
	24V DC	H	D24
	48V DC	J	D48
15.	<b>Low Wattage Coil</b>		
	Available with "B" 115V AC 60 Hz Coil Only	9	L Prefix Befor DSG
16.	<b>Valve Port Orifices</b>		
	Orifice in A	A**	Cannot Supply
	Orifice in B	B**	Cannot Supply
	Orifice in P	P**	Cannot Supply
	Orifice in T	T**	Cannot Supply
17.	<b>Design Code Number</b>		
	Japanese Standard		60
	North American Standard	40	6090

## VICKERS to YUKEN CROSS OVER (D05)

**F3 PB D G 4 S 4 -L W -01 2 C -W -U -\* -5\* -LH**  
 1 2 3 4 5 6 7 8 9 10 11 11 12 13 14 15 16

	DESCRIPTION	VICKERS	YUKEN
1.	<b>Special Seals</b>		
	See Fluids and Seals Note	F3	F
	Standard Seals	Blank	Blank
2.	<b>Electrical Option Features</b>		
	Not Required	Blank	Blank
	Insta Plug	PB	Cannot Supply
	3 Pin Plug	PA3	Cannot Supply
	5 Pin Plug	PA5	Cannot Supply
	Monitor Switch	S	Cannot Supply
3.	<b>Directional Control Valve</b>	D	DSG
4.	<b>Mounting Type</b>	G	
	Manifold or Subplate		
5.	<b>Solenoid Operated</b>	4	
6.	<b>Sliding Spool</b>	S	
7.	<b>Flow Direction</b>		
	2 - 2-Way	2	
	4 - 4-Way	4	
8.	<b>Electrical Accessories</b>		
	L - Solenoid Indicator Lights	L	Standard
9.	<b>Wiring Housing</b>	W	Standard
10.	<b>Valve Size</b>		
	ISO-5501-05, NFPA-D05	01	03
11.	<b>Spool/Spring Arrangement</b>		
	Open Center, Spring Offset, Single Solenoid	0A	2B3
	Closed Center, Spring Offset, Single Solenoid	2A	2B2
	Open Center, Spring Centered	0C	3C3
	Closed Center, Spring Centered	2C	3C2
	Closed Center (P Only), Spring Centered	6C	3C4
	Tandem Center, (Open Crossover), Spring Centered	8C	3C60
	Closed Center (Bleed A & B), Spring Centered	33C	3C40
	Open Center, Detent	0N	2D3
	Closed Center, Detent	2N	2D2
	Open Center, Spring Centered, Single Solenoid	0B	2B3B
	Closed Center, Spring Centered, Single Solenoid	2B	2B2B
	Closed Center (P Only), Spring Centered, Single Solenoid	6B	2B4B
	Tandem Center, (Open Crossover), Spring Centered,	8B	2B60B
12.	<b>Wet Armature Solenoids</b>		
	Wet Arm Solenoids & Non-Serviceable Core Tubes	W	Disregard
	Wet Arm Solenoids & AC Serviceable Core Tubes and All DC Voltages	W3	Cannot Supply

## VICKERS to YUKEN CROSS OVER (D05)

**F3 PB D G 4 S 4 -L W -01 2 C -W -U -\* -5\* -LH**  
 1 2 3 4 5 6 7 8 9 10 11 11 12 13 14 15 16

	DESCRIPTION	VICKERS	YUKEN
13.	<b>DIN Standard</b>		
	Not Rquired	Blank	Blank
	Electrical Plug	U	N
14.	<b>Coil Identification</b>		
	110V AC 50Hz/120V AC 60Hz	B	A120
	220V AC 50Hz/230V AC 60"Hz	D	A240
	440V AC 50Hz/460V AC 60Hz	M	Cannot Supply
	12V DC	G	D12
	24V DC	H	D24
	250 V DC	X	Cannot Supply
15.	<b>Design Code Number</b>		
	Japanese Standard		50
	North American Standard	50	5090
16.	<b>Left Hand Assembly</b>		
	For Single Solenoids	LH	L
	For Standard Right Hand Assembly	Blank	Blank

31-Dec-01

\* Canadian Standards Association Certification. Valves with solenoid voltages of 115V AC - 60 Hz, 230V AC - 60, 12V DC and 24V DC have Canadian standards certification. Identify by adding ~~3324~~ suffix in the model code. This certification does not include models with indicator lights (L) or plug-in devices (PA\*/PB).

## VICKERS to YUKEN CROSS OVER (D08)

F3 DG5S	-8	-2C	L	(*)	(X)	-3	-7	-E	-T	(*)	-(V)	M	-(S*)	U	T	W	6	L	5	-***	-30/40	-EN470																					
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24																				
DESCRIPTION																																											
																		VICKERS					YUKEN																				
1. <b>Special Seals</b> For Mineral Oil & Fire Resistant Fluids																							F3	F																			
Standard Seals																												Blank															Blank
2. <b>Series Designation</b> Directional Control Valve																												D															
Manifold or Subplate Mounted																												G															
Solenoid Controlled, Pilot Operated																												5															DSHG
Sliding Spool, rated Pressure (3,000 PSI)																												S															
3. <b>Interface</b> ISO 4401-08, NFPA D08																												8															06
4. <b>Spool/Spring Arrangement</b> Open Center Spring Offset, Single Solenoid																												0A															
Closed Center, Spring Offset, Single Solenoid																												2A															
Open Center , Spring Centered																												0C															
Closed Center, Spring Centered																												2C															
Closed Center (P Only), Spring Centered																												6C															
Tandem Center (Open Cross Over), Spring Centered																												8C															
Closed Center (Bleed A & B), Spring Centered																												33C															
Open Center, Detent																												0N															
Closed Center, Detent																												2N															
5. <b>Left Hand Assembly</b> Left Hand, Single Solenoid																												L															L - After Design Code
Not Required																												Blank															
6. <b>Manual Override</b> Plain Override, Solenoid Ends Only																												Blank															
Waterproof Override Solenoid Ends Only																												H															
Waterproof Override Both Ends of Single Solenoid																												H2															
Plain Override Both Ends of Single Solenoid																												P2															
Lockable Manual Override Solenoid Ends Only/DC Only																												Y															
No Overrides in Either Ends																												Z															

## VICKERS to YUKEN CROSS OVER (D08)

**F3 DG5S** -8 -2C L (\*) (X) -3 -7 -E -T (\*) -(V) M -(S\*) U T W 6 L 5 -\*\*\* -30/40 -EN470  
 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

	DESCRIPTION	VICKERS	YUKEN
7.	<b>Response Type</b> Fast Response Standard Low Shock Models	X Blank	
8.	<b>Spool Control Modifications</b> Stroke Adjustment Both Ends Pilot Choke (Dual) Adjustment Pilot Choke and Stroke Adjustment Stroke Adjustment A Port End Only Stroke Adjustment B Port End Only Dual Pilot Choke and Stroke Adjustment A Port End Only Dual Pilot Choke and Stroke Adjustment B Port End Only Not required	1 2 3 7 8 2-7 2-8 Blank	R2  PA PB
9.	<b>Pilot Pressure</b> External Pilot Pressure Internal Pilot Pressure	E Blank	E blank
10.	<b>Pilot Drain</b> Internal Pilot drain External Pilot Drain	T Blank	T Blank
11.	<b>Pressure Port Check Valve</b> 0.35 Bar (5 PSI) Cracking Pressure 3.45 Bar (50 PSI) Cracking Pressure 5.20 Bar (75 PSI) Cracking Pressure Not Required	K R S Blank	
12.	<b>Solenoid Energization Identity</b> Solenoid Identification Determined by Position of Solenoid (Solenoid A at Port A End and/or Solenoid B at Port B end). Standard Arrangement for ANSI B93.9 (Energize Solenoid A for Flow P to A Port)	V Blank	
13.	<b>Flag Symbol</b> Electrical Options and Features	M	

## VICKERS to YUKEN CROSS OVER (D08)

**F3 DG5S** -8 -2C L (\*) (X) -3 -7 -E -T (\*) -(V) M -(S\*) U T W 6 L 5 -\*\*\* -30/40 -EN470  
 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

	DESCRIPTION	VICKERS	YUKEN
14.	<b>Spool Indicator Switch (Available on Models with High Performance Pilot DG4V3 Only)</b> Normally Open (Available on Valves with Code P* Only) Normally Closed (Available on Valves with Code P* Only) Free Leads (Available on Valves with Coil Type Code F Only) LVDT Type DC Switch with Pg7 Connector Plug <b>Coil Type</b> ISO 4400 Flying Lead Single 6.3 mm Spade to IEC 760 Dual 6.3 mm Spade to IEC 760	S3 S4 S5 S6 U F SP1 SP2	
15.			
16.	<b>Electrical Connections (Code F Coil Only)</b> Wired Terminal Block Instaplug Male Receptacle Only Instaplug Male and Female Receptacle Only Three Pin Connector Five Pin Connector Not Required <b>Housing (Code F Coil Only)</b> 1/2 NPT Thread Wiring Housing 20 mm Thread Wiring Housing Not Required	T PA PB PA3 PB5 Blank W J Blank	
17.			
18.	<b>Electrical Options (Code U Coil Only)</b> ISO with Fitted Plug ISO With Fitted Plug and Lights	1 6	
19.	<b>Solenoid Indicator Lights ( Code F Coil with Code T Electrical Connectors Only)</b> Indicator Lights Not Required	L Blank	

## VICKERS to YUKEN CROSS OVER (D08)

**F3 DG5S** -8 -2C L (\*) (X) -3 -7 -E -T (\*) -(V) M -(S\*) U T W 6 L 5 -\*\*\* -30/40 -EN470  
 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

		DESCRIPTION	VICKERS	YUKEN
20.	<b>Coil Identification</b>			
	110V AC 50Hz		A	
	110V AC 50Hz/120V AC 60 Hz		B	A120
	220V AC 50Hz		C	
	220V AC 50Hz/240V AC 60 Hz		D	A240
	12V DC		G	D12
	24V DC		H	D24
	98V DC		DJ	
	110V DC		P	
21.	<b>Pilot Valve Tank Pressure Rating</b>			
	10 Bar (145 PSI) DG4V3-60 with S3, S4, or S5 Spool Indicator Switch		2	
	100 Bar (1450 PSI) DG4V3S-60		5	
	210 Bar (3000 PSI) DG4V3-60 with AC Solenoids & Optional S6 Spool Indicator Switch		6	
	210 Bar (3000 PSI) DG4V3-60 with DC Solenoids & Optional S6 Spool Indicator Switch		7	
22.	<b>Pilot Valve Port Orifices</b>			
	Solid Plug		*00	
	0.30 mm (0.012 in)		*03	
	0.60 mm (0.024 in)		*06	
	0.80 mm (0.030 in)		*08	
	1.00 mm (0.040 in)		*10	
	1.30 mm (0.050 in)		*13	
	1.50 mm (0.060 in)		*15	
	2.00 mm (0.080 in)		*20	
	2.30 mm (0.090 in)		*23	
	Not Required		Blank	
23.	<b>Design Number</b>			
	DG4V3S-60 Pilot Valve		30	
	DG4V3-60 Pilot Valve		40	
24.	Special Feature			



# VICKERS to YUKEN CROSS OVER (D10)

**F3 DG5S -10 -2C (P) L (X) -3 -7 -E -T (\*) -(V) M -(S\*) U T W 6 L 5 -\*\*\* -30/40 -EN470**  
 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

		DESCRIPTION	VICKERS	YUKEN
1.	<b>Special Seals</b>			
	For Mineral Oil & Fire Resistant Fluids		F3	F
	Standard Seals		Blank	Blank
2.	<b>Series Designation</b>			
	Directional Control Valve		D	
	Manifold or Subplate Mounted		G	DSHG
	Solenoid Controlled, Pilot Operated		5	
	Sliding Spool, rated Pressure (3,000 PSI)		S	
3.	<b>Interface</b>			
	ISO 4401-10, NFPA D10		8	10
4.	<b>Spool/Spring Arrangement</b>			
	Open Center Spring Offset, Single Solenoid		0A	
	Closed Center, Spring Offset, Single Solenoid		2A	
	Open Center, Spring Centered		0C	
	Closed Center, Spring Centered		2C	
	Closed Center (P Only), Spring Centered		6C	
	Tandem Center (Open Cross Over), Spring Centered		8C	
	Closed Center (Bleed A & B), Spring Centered		33C	
	Open Center, Detent		0N	
	Closed Center, Detent		2N	
5.	<b>Manual Override Operator (For Single Solenoid Models Only)</b>			
	Not Required		Blank	
6.	<b>Left Hand Build (For Single Solenoid Models Only)</b>			
	For Left Hand Assembly		L	
	Not Required for Right Hand Assembly		Blank	
7.	<b>Response Type</b>			
	Fast Response		X	
	Standard Low Shock Models		Blank	

## VICKERS to YUKEN CROSS OVER (D10)

**F3 DG55 -10 -2C L (\*) (X) -3 -7 -E -T (\*) -(V) M -(S\*) U T W 6 L 5 -\*\*\* -30/40 -EN470**  
 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

	DESCRIPTION	VICKERS	YUKEN
8.	<b>Mainstage Spool Control Options</b>		
	Spool Stroke Adjustments	1	
	Pilot Choke Adjustments Spool Shift Control	2	
	Pilot Choke and Stroke Adjustments	3	
	Stroke Adjustment A Port End Only	7	
	Stroke Adjustment B Port End Only	8	
	Pilot Choke and Stroke Adjustment A Port End Only	2-7	
	Pilot Choke and Stroke Adjustment B Port End Only	2-8	
	Not required	Blank	
9.	<b>Pilot Pressure</b>		
	External Pilot Pressure	E	
	Internal Pilot Pressure	Blank	
10.	<b>Pilot Drain</b>		
	Internal Pilot drain	T	
	External Pilot Drain	Blank	
11.	<b>Pressure Port Check Valve</b>		
	0.35 Bar (5 PSI) Cracking Pressure	K	
	3.45 Bar (50 PSI) Cracking Pressure	R	
	5.20 Bar (75 PSI) Cracking Pressure	S	
	Not Required	Blank	
12.	<b>Flag Symbol</b>		
	Electrical Options and Features	M	
13.	<b>Electrical Plug Options</b>		
	See DG4V-3 for Specification	P**	

# VICKERS to YUKEN CROSS OVER (D10)

F3 DG5S -10 -2C L (\*) (X) -3 -7 -E -T (\*) -(V) M -(S\*) U T W 6 L 5 -\*\*\* -30/40 -EN470  
 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

	DESCRIPTION	VICKERS	YUKEN
14.	<b>Spool/Pilot Valve</b> See DG4V-3 for Specification	M	
15.	<b>Electrical Options</b> Wet Armature Solenoids and 1/2' NPT Port in Wiring Housing Wet Armature Solenoids and 1/2' NPT Port in Wiring Housing with Indicator Lights German "DIN" Standard 43650 Electrical Plug (B, D, G & H Voltage Only)	W WL U	
16.	<b>Electrical Service Coil Identification Letter</b> 110V AC 50Hz & 115/120V AC 60Hz 230V AC 60Hz & 220/230V AC 50Hz 6V DC 12V DC 24V DC 250V DC	B D F G H X	
18.	<b>Pilot Valve Port Orifices</b> Applicable Ports, A,B,P & T. Sizes Designated in mm. Example: P08, A10 Not Required	P08 Blank	
19.	<b>Design Number</b> Japanese Standard North American Standard	70 Through 79	42 4290