



Fluidyne™
FLUID POWER

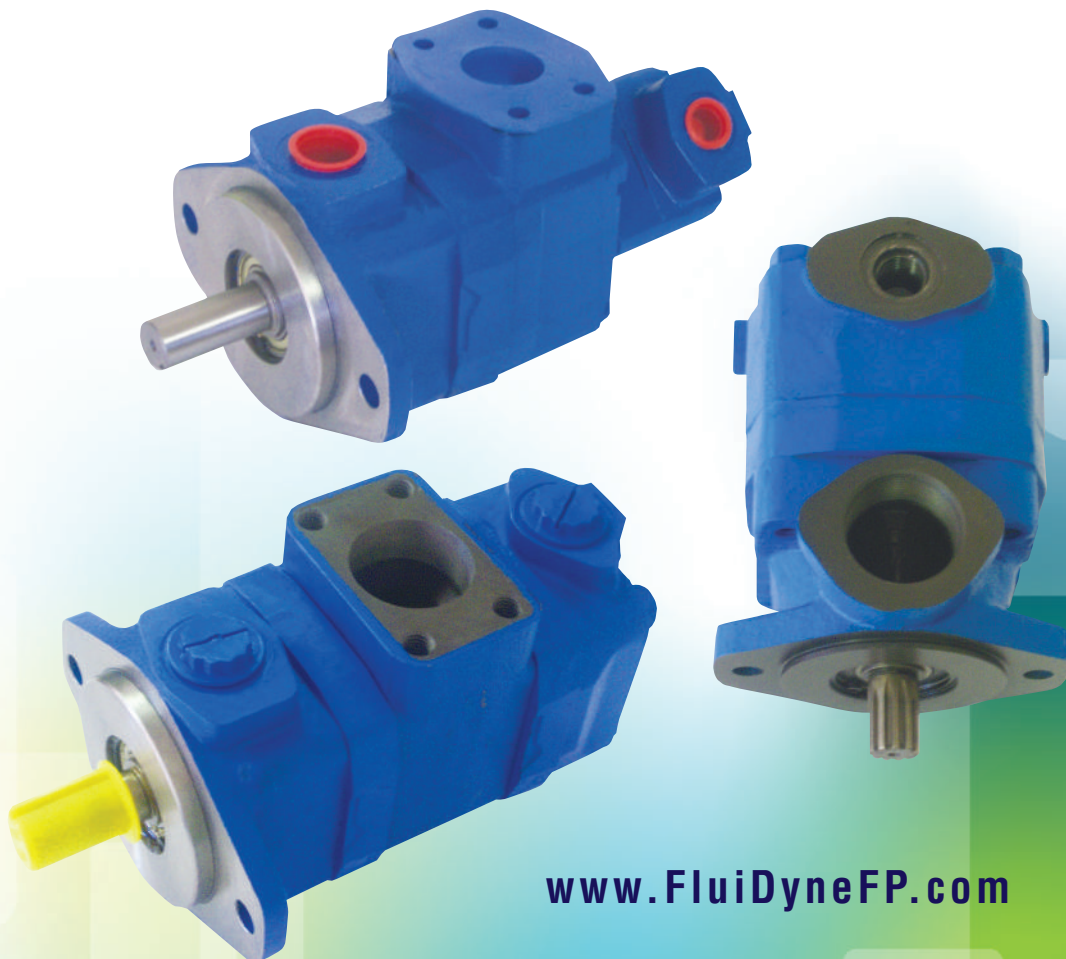
Vane Pumps & Parts

V10/V10F/NF/P

V20/V20F/NF/P

V2010*, V2020*F/NF/P

- Standards and Specials - including Caterpillar Pumps
- Available in Industrial Version, Single & Double Units
- Left and Right Hand Rotations, Variety of Shafts Available
- Same Day Shipment



www.FluidyneFP.com

Our People Make the Difference

Our promise at FluidDyne is to provide the fluid power industry with high quality, fully tested and technically supported hydraulic pumps, motors and valves. We understand and value the local service and support provided by repair shops, resellers and distributors to the OEM's and users of fluid power applications. We do not compete with our customers; rather we work with our channels as partners in their success and to advance the technology of fluid power.

Our strength is our people. We focus on personal development and a long term commitment to our staff. We recognize knowledgeable people are a valuable part of the service a business organization provides. We stress a commitment to learning and customer support at every level of the FluidDyne organization. Accounting, Customer Service, Engineering, Inventory, Management, Manufacturing, Quality and Shipping all work together to serve our customer. We believe in treating everyone inside and outside the company with professionalism and respect.

Application and technical support for our products is easy access, and we pride ourselves in not having a switchboard or phone tree. The person, who picks up the phone, helps the customer. We like it simple, we like it direct. Our inventory is extensive and our people are skilled at assembly, modifications and testing.

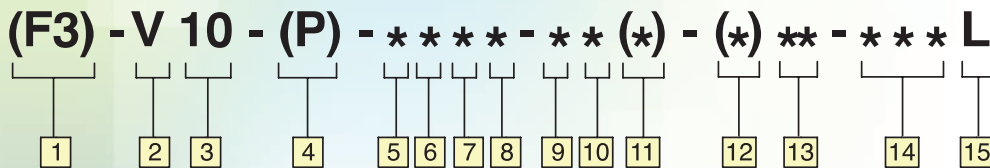
Our product leaves the factory fast (often the same day) and it leaves correct, tested and documented. If there is a mistake, we work hard to make it right, quickly and fairly.

Please call or email to learn more about FluidDyne. Our products and people make us special.

- 18 month warranty
- Blind drop shipments
- Custom proprietary software allows immediate & accurate technical support, quoting, order entry & bill of material information
- End customer protection
- Extensive Michigan inventory
- ISO Certified 9001:2008
- New FluidDyne and remanufactured products
- Outstanding customer service
- Performance you have come to expect
- Same day shipments
- Standard & modified products
- Multiple test stands which allow for quick 100% testing of all units shipped

Voted "Best Customer Technical Service 2014"





1 Special seals

F3 – Special “O”Rings & seals for mineral oil & fire resistant fluid

2 Vane Pump

3 Series 10

4 Pump Cover Options

F – Flow control cover
P – Priority valve cover
NF – Flow control cover & relief with internal drain
Omitted – Standard cover

5 Mounting

1 – 2 Bolt flange (SAE “A” size)
2 – Foot bracket at 12 O’Clock*
23 – Foot bracket at 3 O’Clock*
26 – Foot bracket at 6 O’Clock*
29 – Foot bracket at 9 O’Clock*
 *(Viewed from shaft end)

6 Inlet Port Connections

P – 1” NPT thread
S – 1-5/16”–12 straight thread
T – 1-3/16”–12 straight thread
B – G1” BSPP straight thread

7 SAE Rated Ring Capacity gpm
 (1200 rpm – 100 psi)

1 – 1 gpm **5** – 5 gpm
2 – 2 gpm **6** – 6 gpm
3 – 3 gpm **7** – 7 gpm
4 – 4 gpm

8 Outlet Port Connections

V10 Standard Cover
P – 1/2” NPT thread
R – 1-1/16” –12 straight thread
S – 3/4” –16 straight thread
B – G 1/2” BSPP straight thread
Y – 7/8” – 14 straight thread

V10F Flow Control Cover

Pressure	Tank
P – 3/4”–16 St. Thd.	1/2” NPT Thd.
T – 3/4”–16 St. Thd.	3/4”–16 St. Thd.

V10NF

Pressure	Tank
T – 3/4”–16 St. Thd.	_____

V10P Priority Valve Cover

Primary Outlet	Secondary Outlet	Tank
K – 9/16”–18 St. Thd.	3/4”–16 St. Thd.	9/16”–18 St. Thd.

9 Shaft Types

1 – 3/4” Straight–keyed, 1.75” ext.
3 – 5/8” Thd, Str. with woodruff key
11 – Spline–9 tooth
12 – Spline–13 tooth
38 – Spline–11 tooth
 *Additional Shafts Available

10 Pressure Port Positions
 (Viewed from cover end)

A – Opposite inlet
B – 90° CCW from inlet
C – Inline with inlet
D – 90° CW from inlet

11 Flow Rate in gpm Through Orifice in Cover

1 – 1 gpm (V10P) **5** – 5 gpm
2 – 2 gpm (V10F) **6** – 6 gpm
3 – 3 gpm **7** – 7 gpm
4 – 4 gpm

12 Pressure Setting ,V10F/NF & V10P
 (Omit for standard cover)

Code	Code
A – 250 psi	F – 1500 psi
B – 500 psi	G – 1750 psi
C – 750 psi	H – 2000 psi
D – 1000 psi	J – 2250 psi
E – 1250 psi	K – 2500 psi
0 – Defined by Special Suffix	

13 Design & Modification

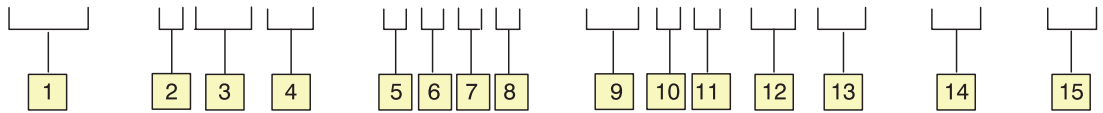
14 Special Feature Suffix

15 Rotation
 (Viewed from shaft end of pump)
R – Right hand for clockwise
L – Left hand for counterclockwise



VIONF and V2ONF
 pumps also available -
 Contact Customer Service

(F3) – V 20 (*) – * * * * – (S) * * (*) (*) – ** – (L)



1 Special Seals

F3 – For mineral oil & fire resistant fluids (Omit if not required)

2 Vane Pump

3 Series Designation

4 Cover Type

F – Flow control cover
P – Priority valve cover
NF – Flow control cover & relief w/ internal drain
Omitted – Standard cover

5 Mounting

1 – Flange, 2 bolt SAE A size
2 – Foot bracket at 12 o'clock*
6 – Flange, 2 bolt SAE B size
23 – Foot bracket at 3 o'clock*
26 – Foot bracket at 6 o'clock*
29 – Foot bracket at 9 o'clock*
 *(Viewed from shaft end)

6 Inlet Port Connection

B – G 1-1/4" BSPP St. Thd.
D – 1-5/16"-12 UN-2B thread
E – 1-1/2" dia. 2 bolt flange
P – 1-1/4" NPT
R – 1" NPT
S – 1-5/8"-12 straight thread

7 Ring Capacity

(Rated capacity (gpm) at 1200 rpm, 6.9 bar (100 psi))
5 – 5 gpm **9** – 9 gpm
6 – 6 gpm **10** – 10 gpm
7 – 7 gpm **11** – 11 gpm
8 – 8 gpm **12** – 12 gpm
 13 – 13 gpm

8 Outlet Port Connect(s)

Code	Std. cover	Flow control cover	
		Pressure	Tank
F	1-1/16" 2 bolt flange	_____	_____
P	3/4" NPT Thd.	3/4"-16 St. Thd.	1/2" NPT Thd.
S	1-1/16"-12 St. Thd.	3/4"-16 St. Thd.	1-1/16"-12 St. Thd.
T	_____	3/4"-16 St. Thd.	3/4"-16 St. Thd.
B	G 3/4" St. Thd.	_____	_____
Y	7/8"-14 St. Thd.	_____	_____

Priority Valve Cover

Code	Primary outlet	Secondary outlet	Tank
T	3/4"-16 St.Thd.	7/8"-14 St.Thd.	3/4"-16 St.Thd.

9 Shaft Seal Type

S – Double lip seal and open bearings (22 design only)
Omit – Single lip seal and sealed bearings

10 Shaft Type

1 – 3/4" Straight, keyed 2.66" ext.
3 – 15/16" Thd., Str. with woodruff key
11 – Spline 11 tooth, 2.94" ext.
38 – Spline 11 tooth, 1.25" ext.
62 – Spline 9 tooth, 1.25" ext.

11 Outlet or Primary Outlet Port Positions

(Viewed from cover end of pump)
A – Opposite inlet
B – 90° CCW from inlet
C – Inline with inlet
D – 90° CW from inlet

12 Flow Rate (V20F & V20P)

(Through orifice in cover)
2 – 2 gpm **8** – 8 gpm
2.5 – 2.5 gpm **9** – 9 gpm
3 – 3 gpm **10** – 10 gpm
4 – 4 gpm **11** – 11 gpm
5 – 5 gpm **12** – 12 gpm
6 – 6 gpm
7 – 7 gpm

13 Pressure Setting (V20F & V20P)

A – 250 psi **F** – 1500 psi
B – 500 psi **G** – 1750 psi
C – 750 psi **H** – 2000 psi
D – 1000 psi **J** – 2250 psi
E – 1250 psi **K** – 2500 psi
0 – Defined by Special Suffix

14 Design

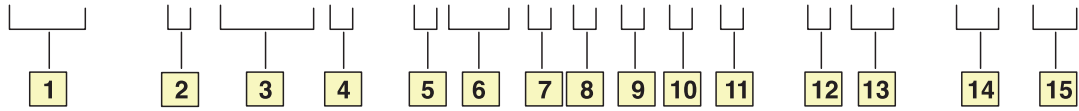
11 – V20, V20F & V20P
12 – V20P
22 – V20F, V20NF

15 Rotation

(Viewed from shaft end of pump)
R – Right hand (clockwise)
L – Left hand (counterclockwise)



(F3) - V 2010 * - * (*) F * S * S - 1 ** - 12 (L)



1 Special Seals

2 Vane Pump

3 Series Designation

4 Cover Type

- F – Flow control cover
- P – Priority valve cover
- NF – Flow control cover & relief with internal drain
- Omit – Standard cover

5 Mounting

- 1 – Flange, 2 bolt SAE B size
- 2 – Foot bracket
- 6 – Flange, 2 bolt SAE A size

6 Foot Bracket

(Mounting position with respect to inlet port when viewed from shaft end. No code required for inlet port at 12 o'clock)

- 3 – Inlet port at 3 o'clock
- 6 – Inlet port at 6 o'clock
- 9 – Inlet port at 9 o'clock
- Omitted for flange mounting

7 Inlet Port

- F – 4 bolt flange, 1.500 dia.

8 Ring Capacity (Shaft End)

(Rated capacity (gpm) at 1200 rpm, 6.9 bar (100 psi))

- 5 – 5 gpm 10 – 10 gpm
- 6 – 6 gpm 11 – 11 gpm
- 7 – 7 gpm 12 – 12 gpm
- 8 – 8 gpm 13 – 13 gpm
- 9 – 9 gpm

9 No. 1 Outlet Port (Shaft End)

S – 1-1/16"–12 UN 2B thread

10 Ring Capacity (Cover End)

(Rated capacity (gpm) at 1200 rpm, 6.9 bar (100 psi))

- 1 – 1 gpm 5 – 5 gpm
- 2 – 2 gpm 6 – 6 gpm
- 3 – 3 gpm 7 – 7 gpm
- 4 – 4 gpm

11 No. 2 Outlet Port (Cover End)

Code	Std. cover	Flow control cover	
		Pressure	Tank
P	1/2"	3/4"–16	1/2"
	NPT Thd.	St.Thd.	NPT Thd.
R	1-1/16"–12		
	St.Thd.		
S	3/4"–16		
	St.Thd.		
T*		3/4"–16	3/4"–16
		St.Thd.	St.Thd.

*NF only available with T pressure port

V2010P Priority Cover

Code	Primary outlet	Secondary outlet	Tank
K	9/16"–18	3/4"–16	9/16"–18
	St.Thd.	St.Thd.	St.Thd.

12 Shaft Type

- 1 – 1" Str., keyed 2.31" ext.
- 3 – 7/8" thd., Str. with woodruff key
- 11 – Splined 13 tooth

13 Outlet Port Orientation

(Viewed from cover end of pump)

With no. 1 outlet opposite inlet

- AA – No. 2 outlet 135° CCW from inlet
- AB – No. 2 outlet 45° CCW from inlet
- AC – No. 2 outlet 45° CW from inlet
- AD – No. 2 outlet 135° CW from inlet

With no. 1 outlet 90° CCW from inlet

- BA – No. 2 outlet 135° CCW from inlet
- BB – No. 2 outlet 45° CCW from inlet
- BC – No. 2 outlet 45° CW from inlet
- BD – No. 2 outlet 135° CW from inlet

With no. 1 outlet inline with inlet

- CA – No. 2 outlet 135° CCW from inlet
- CB – No. 2 outlet 45° CCW from inlet
- CC – No. 2 outlet 45° CW from inlet
- CD – No. 2 outlet 135° CW from inlet

With no. 1 outlet 90° CW from inlet

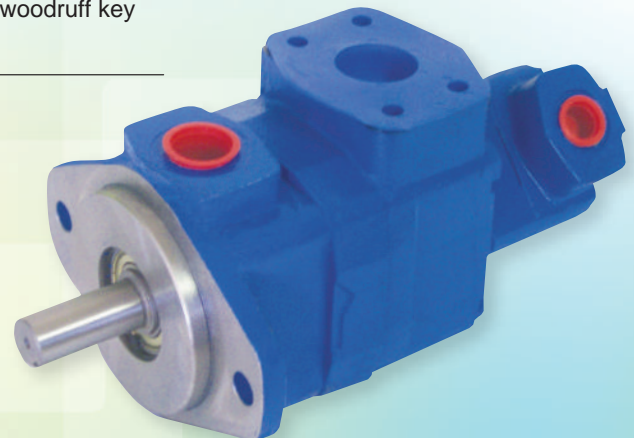
- DA – No. 2 outlet 135° CCW from inlet
- DB – No. 2 outlet 45° CCW from inlet
- DC – No. 2 outlet 45° CW from inlet
- DD – No. 2 outlet 135° CW from inlet

14 Design 10 – 19

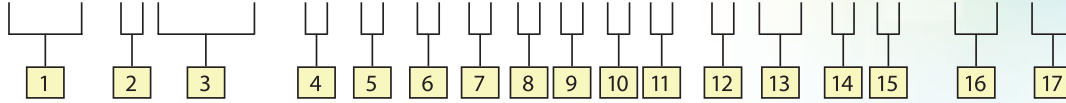
15 Rotation

(Viewed from shaft end of pump)

- R – Right hand (clockwise)
- L – Left hand (counterclockwise)



(F3) - V 2020 - (*) * (*) F * S * S - 1 ** - * * - 20 (L)



1 Viton Seals

(Omit if not required.)

2 Vane Pump

3 Series Designation

4 Cover Type

- F – Flow control cover
- P – Priority valve cover
- NF – Flow control cover & relief with internal drain
- Omit – Standard cover

5 Mounting

- 1 – 2 Bolt SAE “B”
- 2 – Foot bracket
- 6 – 2 Bolt SAE “A”

6 Foot Bracket

Mounting position with respect to inlet port when viewed from shaft end. No code required for inlet port at 12 o'clock.

- 3 – Inlet port at 3 o'clock
- 6 – Inlet port at 6 o'clock
- 9 – Inlet port at 9 o'clock
- Omitted for flange mounting.

7 Inlet Port

F - 4-bolt flange 2.00” dia.

8 Ring Capacity - Shaft End

- (gpm at 1200 rpm and 100 psi)
- 5 - 5 gpm 10 - 10 gpm
 - 6 - 6 gpm 11 - 11 gpm
 - 7 - 7 gpm 12 - 12 gpm
 - 8 - 8 gpm 13 - 13 gpm
 - 9 - 9 gpm

9 No. 1 Outlet Port (Shaft End)

S - 1-1/16”-12 UN-2B thread

10 Ring Capacity - Cover End

- (gpm at 1200 rpm and 100 psi)
- 5 - 5 gpm 10 - 10 gpm
 - 6 - 6 gpm 11 - 11 gpm
 - 7 - 7 gpm 12 - 12 gpm
 - 8 - 8 gpm 13 - 13 gpm
 - 9 - 9 gpm

11 No. 2 Outlet Port Connections

(See table below.)

12 Shaft Type

- 1 – 1” Straight – keyed, 2.31” ext.
- 3 – 7/8” Thd., Str. with woodruff key
- 11 – Spline 13 tooth

13 Outlet Positions

(Facing cover end of pump)

Outlet #1	Outlet #2	Position
A	A	Opposite inlet
B	B	90° CCW from inlet
C	C	Inline with inlet
D	D	90° CW from inlet

Any combination of outlet positions may be used. See model code unit (i.e. V2020P***AD-20).

- A - Opposite inlet (Outlet #1)
- D - 90 CCW from inlet (Outlet #2)

14 Flow Rate

(Thru orifice in cover gpm)

- 1 - 1 gpm
- 2 - 2 gpm
- 3 - 3 gpm
- 4 - 4 gpm
- 6 - 6 gpm
- 8 - 8 gpm

15 Pressure Setting

(Relief setting psi)

- C - 750
- D - 1000
- E - 1250
- F - 1500
- G - 1750
- H - 2000
- J - 2250
- K - 2500

16 Design 20 – 39

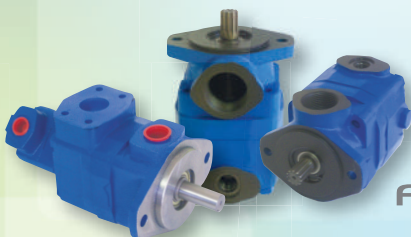
17 Rotation

(Viewed from shaft end)

- R - Right hand (CW rotation)
- L - Left hand (CCW rotation)

Outlet No. 2 Port Connections (Cover End)						
Code	Std. Cover	Flow Control Cover		Priority Valve Cover		
		Pressure	Tank	Primary Outlet	Secondary Outlet	Tank
P	-	3/4”-16 St. thd.	1/2” NPT thd.	-	-	-
S	1-1/16”-12 St. thd.	3/4”-16 St. thd.	1-1/16”-12 St. thd.	-	-	-
T	-	3/4”-16 St. thd.	3/4”-16 St. thd.	3/4”-16 St. thd.	7/8”-14 St. thd.	3/4”-16 St. thd.

*NF only available in T port



FluiDyne Interchange Products

Your choice for interchange hydraulic pumps, motors, valves and filters.

PUMPS & MOTORS

▲ FluiDyne ■ Remanufactured products

◆ Veljan

VICKERS / EATON

VHO / VQ Single, Double & Triple*

- ▲ ■ 20, 25, 30, 35, 40, 45 (V/VQ)
- ▲ ■ 2520, 2521, 3520, 3525, 4520, 4525, 4535 (V/VQ)
- ▲ ■ Cart Kits available for all sizes

*Caterpillar part numbered pumps also available

Round Pumps

- V104/5, V108/9, V110/1, V124/5, V128/9, V134/5
- V144/5, V148/9, V350/3/6, V360/1/2, V368/9/70
- VC108, 138, 148 Combination Pumps

Square Pumps

- ▲ ■ V10F, V10NF, V10P, V20F, V20NF, V20P
- ▲ ■ V10, V20, V2010, V2020

DENISON

- Single T6, T7
- Double T6, T67, T7
- Triple T6, T67, T7
- PV6, 10, 15, 20, 29
- M4C, M4D, M4E

DUMP PUMPS

- ▲ C101/102

OILGEAR

- PVW (W) (H) 04, 06, 10, 11, 15, 20, 25, 34, 45, 60
- PVW (J) 11, 14, 22, 25, 34, 46, 64, 76, 98, 130

Motors

- MHT 32, 50, 70, 90, 150, 250, 330, 440, 500, 660, 750, 1000
- ▲ ■ 25M, 26M, 35M, 36M, 45M, 46M, 50M
- ▲ ■ M2-210

Piston Pumps

- ▲ ■ PVH 57, 74, 98, 131, 141
- ▲ ■ PVE 12, 19, 21, 27, 35, 47, 62
- ▲ ■ PVB 5, 6, 10, 15, 20, 29, 45, 45A, 90*
- ▲ ■ PVQ 10, 13, 20, 32
- PVM 18, 20, 45, 50, 57, 63, 74, 81, 98, 106, 131, 141

Transmissions

- TA15, 19, 1919, 19V, 21

VELJAN

- ◆ Single T6, T7
- ◆ Double T6, T67, T7
- ◆ Triple T6, T67, T7
- ◆ Drive Train T6*R
- ◆ M4C, M4D, M4E
- ◆ M3B
- ◆ TXB1

RACINE/BOSCH

- ▲ ■ PSV 10, 15, 20, 25, 40
- ▲ ■ PSV 80, 100
- PVF, PVQ, PVR
- PVK, PVT, PVS
- VPV
- ▲ ■ H20, H80

REXROTH

- ▲ ■ A10V(S)018
- ▲ ■ A10V(S)028, 45, 71, 100, 140
- ▲ ■ A4V(S)071, 125, 180, 250

CHAR-LYNN

- ▲ H SERIES (101-)
- ▲ S SERIES (103-)
- ▲ 2000, 4000 (104-, 109-)
- ▲ 6000, 10,000 (112-, 119-)
- ▲ J SERIES (129-)

INTERCHANGES WITH:

EATON
SAUER-DANFOSS
WHITE
PARKER/ROSS/TRW
CHARLYNN

VALVES

Directional Valves

- ▲ ■ D03 – DG4V3, 4WE6
- ▲ ■ D05 – DG4S401, 4WE10
- ▲ ■ DG5V5, DG5S4, 4WEH10, 4WEH16
- ▲ ■ D08 - DG5S4, DG5S8, 4WEH25
- ▲ ■ DG17S/V 03, 05

Flange Mounted Valves

- ◆ R5V/R5S/RSU: 06, 08, 10, 12
- ◆ R1E Remote Relief

Check Valves

- ▲ ■ CG5
- 4CT, 4CG
- DT8P1

Relief Valves

- ▲ ■ CT/CG/CS/CF 03, 06, 10

Stack Modules

- ▲ ■ DGM Staks, Flow Control, Reliefs, Checks, Pressure Controls

Needle Valves

- ▲ ■ 1/8 thru 1-1/2

Pressure Controls

- X (C) G OR T 03, 06, 10

Valves and Stacks

- D03-5-7-8

FILTERS

FluiDyne has a full range of replacement filters elements and filter housings for:

Pall Hydac Hycon
Schroeder Vickers Parker

*Manufacturers names and numbers are for reference only

FluidDyne supports the distributors providing local knowledge and assistance to fluid power customers.

Our people provide extensive support:

- Engineering expertise
- Decoding special part number
- Identification of parts within units
- Advice on component repair and assembly
- Component failure analysis
- Massive local stock
- New application component selection
- Same day shipments
- 18 month warranty

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Service!**

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