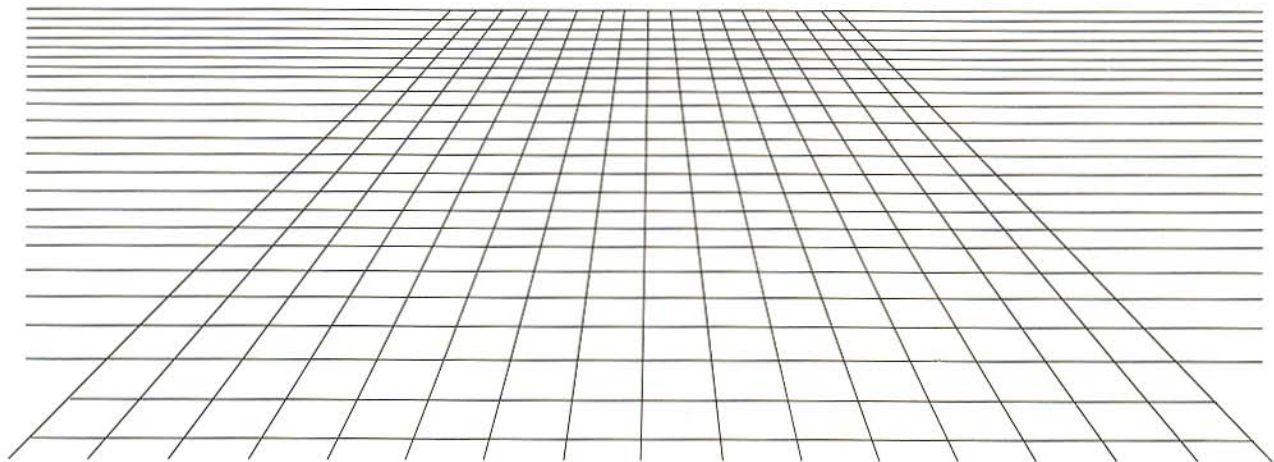


Rexroth

Bosch Group

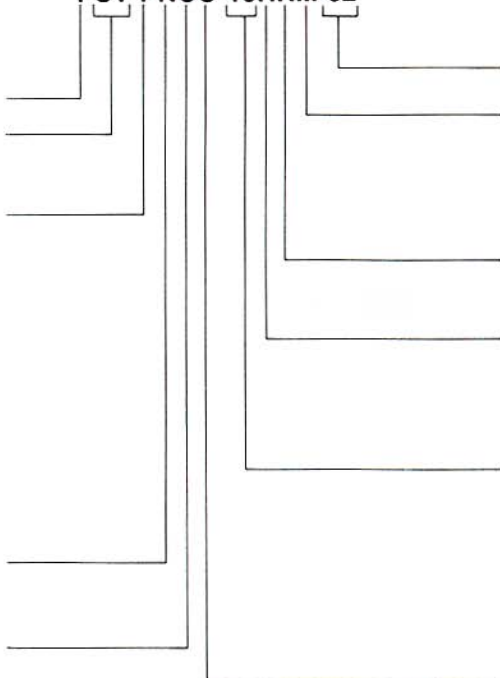
Industrial Products

CODE CHARTS



VANE PUMPS

PSV-PNCO-10HRM-62



P – Pump

SV – Silentvane Series Vane Pump (Med. Press.)

TV – Twinvane Series Vane Pump

(Compatible with 95/5 HWCF Fluids.)

HV – Silentvane Series Vane Pump (High Press.)

K – Single Stage Compensator

(-50 Design Digit and Above)

P – Two Stage Pressure Compensator

(-50 Design Digit and Above)

***S** – Solenoid Operated Two Pressure Compensator

(Normally Low, Energize to High Pressure)

***H** – Solenoid Operated Two Pressure Compensator

(Normally High, Energize to Low Pressure)

***V** – Solenoid Operated Two Pressure Compensator

(Normally Vented, Energize to High Pressure)

J – Hydraulic Operated Two Pressure Compensator

(Normally Low, Energize to High Pressure)

L – Load Sensing Flow Compensator

T – Torque Limiting Control

M – Multiple Control (P L and T)

D – Two Stage Pressure Compensator

(Prior to -50 Design Digit)

P – Single Stage Pressure Compensator

(Prior to -50 Design Digit)

E – Electro-Hydraulic Pressure Compensator

R – Remote Control Pressure Compensator

N – No Maximum Screw Volume Control

S – Screw Volume Control

F – Flow Feedback Governor

(Prior to -50 Design Digit)

S – Subplate Mounted

A – Flange Mounted, SAE Straight Threaded Side Ports

B – Flange Mounted, SAE Straight Threaded Rear Ports

C – Flange Mounted, 4 Bolt Flanged Side Ports

R – Flange Mounted, 4 Bolt Flanged Rear Ports

P – Flange Mounted, SAE Straight Threaded Rear Ports

(Prior to -50 Design Digit)

D – 4 Bolt Mtg. Flange (ISO), BSPP Side

Ports and Auxiliary Ports

E – 4 Bolt Mtg. Flange (ISO), Flanged

Side Ports and SAE Auxiliary Ports

F – 4 Bolt Mtg. Flange, Flanged Side

Ports and BSPP Auxiliary Ports

G – 4 Bolt Mtg. Flange, SAE Side Ports

and Auxiliary Ports (HV-10 & 20 Only)

* – Specify Voltage

62 – Design Digit

M – Medium Keyed Shaft (SAE)

T – Splined Shaft

D – Through Shaft

S – Short Shaft

L – Long Shaft

A – Long Through Shaft

B – Short Through Shaft

W – Keyed Shaft (ISO)

R – Right Hand Rotation (Clockwise)

L – Left Hand Rotation (Counterclockwise)

Q – Left Hand Rotation, Opposite End Drive

D – Through Shaft, Right Hand Rotation

C – 500 PSI Maximum Pressure

D – 750 PSI Maximum Pressure

E – 1000 PSI Maximum Pressure

G – 1500 PSI Maximum Pressure

H – 2000 PSI Maximum Pressure

J – 2500 PSI Maximum Pressure

K – 3000 PSI Maximum Pressure

10 – 7.5 GPM @ 1800 RPM

15 – 11 GPM @ 1800 RPM

15 – (Twinvane) 6 GPM @ 1200 RPM

20 – 15 GPM @ 1800 RPM

25 – 20 GPM @ 1800 RPM

25 – (Twinvane) 11 GPM @ 1200 RPM

40 – 30 GPM @ 1800 RPM

40 – (Twinvane) 23 GPM @ 1200 RPM

80 – 60 GPM @ 1800 RPM

80 – (Twinvane) 40 GPM @ 1200 RPM

100 – 75 GPM @ 1800 RPM

O – Buna N Seals

F – Viton Seals

W – HWCF Compatible, Viton Seals

(Prior to Tandem Mount Design)

H – HWCF Compatible, Viton Seals

(Tandem Mount Design)

SHADED AREAS OBSOLETE

SPRING GOVERNED VANE PUMPS

PVQ-PSEJ-06ERM-01

PV – Pump, Variable
PF – Pump, Fixed
PS – Pump, Variable, Super Q Model

B – Model B, 1800 RPM Rated
F – Model FA, 1200 RPM Rated
K – Model K, 1200 RPM Rated
Q – Model Q, 1800 RPM Rated (Only PS)
R – Model RA, 1200 RPM Rated
S – Model S, 1800 RPM Rated
T – Model T, 1800 RPM Rated
H – Klein Pump, 1800 RPM Rated

B – B Type Pressure Compensator
C – C Type Pressure Compensator
E – Handwheel Pressure Compensator
H – Hydraulic Two Pressure Compensator (Internal Pilot)
J – Hydraulic Two Pressure Compensator (External Pilot)
N – No Control
*O – Solenoid Operated Two Pressure Compensator (With Oil Immersed Solenoid)
P – Standard Pressure Compensator
*S – Solenoid Operated Two Pressure Compensator (with Air Gap Solenoids)
T – Unloading Compensator

H – Handwheel Maximum Volume Control
N – No Volume Control
S – Screw Volume Control

A – Flange Mounted, Threaded Connections
B – Flush Mounted
C – Flange Mounted, Flanged Connections
E – Flange Mounted, SAE Connections
F – Foot Mounted, Flanged Connections
S – Subplate Mounted
T – Foot Mounted, Threaded Connections

* – Specify Voltage

01 – Design Digit

M – Keyed Shaft
T – Splined Shaft

A – Combination Pump, Right Hand Rotation (clockwise)
D – Double Ended, Right Hand Rotation (clockwise)
L – Left Hand Rotation (counterclockwise)
R – Right Hand Rotation (clockwise)
Q – Left Hand Rotation, Opposite End Drive (clockwise)
T – Right Hand Rotation, Opposite End Drive (counterclockwise)

B – 250 PSI Maximum Pressure
C – 500 PSI Maximum Pressure
E – 1000 PSI Maximum Pressure
G – 1500 PSI Maximum Pressure
H – 2000 PSI Maximum Pressure

05 – 5 GPM @ Rated RPM
06 – 6 GPM @ Rated RPM
10 – 10 GPM @ Rated RPM
12 – 12 GPM @ Rated RPM
20 – 20 GPM @ Rated RPM
25 – 25 GPM @ Rated RPM
30 – 30 GPM @ Rated RPM
40 – 40 GPM @ Rated RPM
70 – 70 GPM @ Rated RPM
09 – PSQ Pump, 7 GPM @ Rated RPM
12 – PSQ Pump, 9 GPM @ Rated RPM

F – Viton Seals, Roller Bearings
O – Buna N Seals, Roller Bearings
W – Water Glycol, DU Bearings
J – Buna N Seals, Journal Bearings
K – Viton Seals, Journal Bearings
A – Viton Seals, Journal Bearings

ABBREVIATED CODES

2 FA = 12 GPM 6 RA = 30 GPM
4 FA = 20 GPM 8 RA = 40 GPM
6 FA = 30 GPM

SHADED AREAS OBSOLETE

VANE PUMP

(New VPV Style)

0513-R-18-C3-V-P-V-16-S-M-14-F-Z-A01

ROTATION

R – Clockwise

SPEED

15 – 1500 RPM

18 – 1800 RPM

FLANGE & SHAFT

C3 – ISO 3019/1 (SAE) Keyed Shaft

A7 – ISO 3019/2 (Metric) Keyed Shaft

DISPLACEMENT

16 – 1 in.³/rev.

25 – 1.5 in.³/rev.

32 – 2 in.³/rev.

45 – 3 in.³/rev.

63 – 4 in.³/rev.

80 – 5 in.³/rev.

100 – 6 in.³/rev.

130 – 8 in.³/rev.

164 – 10 in.³/rev.

ACCESSORIES

Y – Volume Control

Z – None

CONTROL TYPE

D – Direct Spring Operated (VPV 16)

F – Adjustable Pressure Comp.

G – Lockable Adj. Pressure Comp.

H – Remote Pressure Comp.

J – Load Sensing Comp.

MAXIMUM PRESSURE

14 – 140 Bar (2000 PSI)

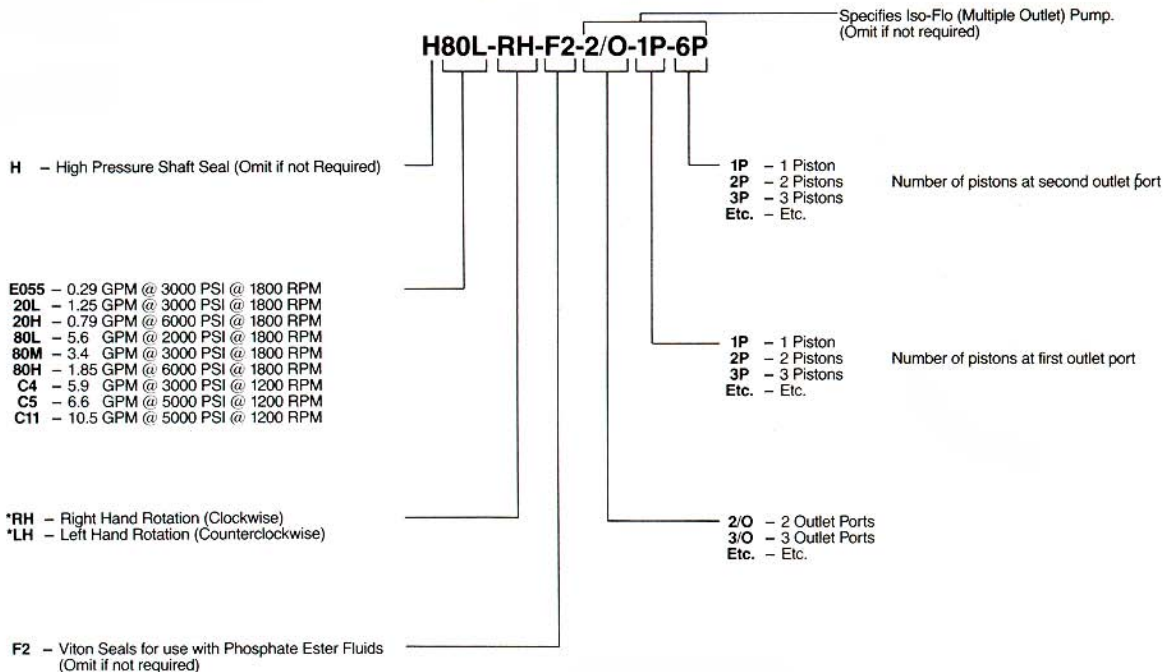
OPERATING FLUID

M – Mineral Oil

IDENTIFICATION CODE ONLY

Refer to Catalog for Ordering Information.

RADIAL PISTON PUMPS



*Applicable to C5 pump only. All other Racine radial piston pumps are bi-rotational.

DIRECTIONAL CONTROLS

FD4-BSHS-106S-A-50-115/60

O - Buna N Seals
F - Viton Seals

A - Pneumatic Actuators
D - Direct Spool
R - Rotary

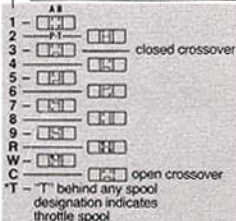
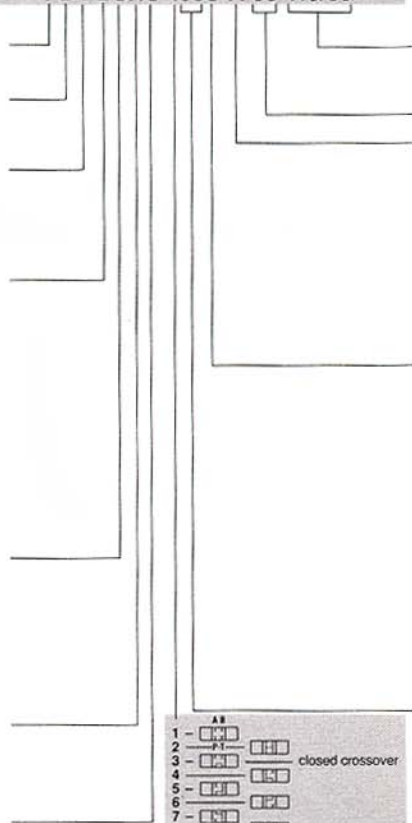
2 - 2 way
3 - 3 way
4 - 4 way
5 - Shuttle
6 - Gage Isolator
8 - Multiple Selector

A - Pilot Operated; Internal Pilot, External Drain
B - Pilot Operated; Internal Pilot, Internal Drain
D - Direct Operated
E - Pilot Operated; External Pilot, External Drain
F - Pilot Operated; External Pilot, Internal Drain
J - Pilot Operated (Oil Immersed Solenoids); Internal Pilot, External Drain
K - Pilot Operated (Oil Immersed Solenoids); External Pilot, External Drain
L - Lever Operated
N - Direct Operated (Oil Immersed Solenoids)
P - Hydraulic Pilot Operated
R - Roller Operated
S - Stem Operated
T - Pilot Operated (Oil Immersed Solenoids); Internal Pilot, Internal Drain
U - Pilot Operated (Oil Immersed Solenoids); External Pilot, Internal Drain

A - Single Solenoid, Spring Centered (P \uparrow A Energized)
B - Single Solenoid, Spring Centered (P \uparrow B Energized)
G - Pressure Return
L - Spring Return with Interlock Limit Switch
N - Detented
O - Spring Return (P \uparrow B De-energized)
P - Hydraulic Pressure Centered
S - Spring Centered
T - Spring Return (P \uparrow A De-energized)
W - Standard Action (Superseded by Detented Valve)

D - 1000 PSI Maximum Pressure
E - 1500 PSI Maximum Pressure
F - 2000 PSI Maximum Pressure
H - 3000 PSI Maximum Pressure
K - 4600 PSI Maximum Pressure

F - Flanged Connections
S - Subplate Mounted
G - Subplate Mounted, with Pressure Port Check Valve
H - Subplate Mounted, with Pressure Port Sequence Valve
T - Foot Mounted, Threaded Connections



115/60 - 115 volt, 60 Hertz Solenoids
12 VDC - 12 VDC Solenoids
Etc. - Etc.

50 - Design Digit

A - Sentinel Lights, AC Solenoids
B - Trouble Detector, Circuit Breaker
C - Trouble Detector, Fuse
D - ANSI Quick Connect (5 or 3 Pin)
E - ANSI Quick Connect with Sentinel Lights (5 or 3 Pin)
F - Trouble Detector
G - ANSI Quick Connect (5 pin for Single Solenoid)
H - DIN 43650 Blade Type Quick Connects
J - Wiring Box Only
K - Wiring Box with Sentinel Lights
L - ANSI Quick Connect with Sentinel Lights (5 pin for Single Solenoid)
P - PNEUMATIC
Y - Permanent Quick Connect with Flying Leads

A - Fixed Pilot Chokes
B - Adjustable Spool Stops
C - Fixed Pilot Chokes and Adjustable Spool Stops
D - Throttle Spool
E - Fixed Pilot Chokes and Throttle Spool
F - Fixed Pilot Chokes, Adjustable Spool Stops and Throttle Spool
G - Adjustable Pilot Chokes and Adjustable Spool Stops
H - Integral Return Check
J - Integral Return Check and Throttle Spool
K - Adjustable Pilot Chokes and Integral Return Check
L - Fixed Pilot Chokes and Integral Return Check
M - Adjustable Pilot Chokes
P - Adjustable Pilot Chokes and Throttle Spool
Q - 007 Compact Valve
R - Adjustable Pilot Chokes, Throttle Spool and Adjustable Spool Stops
S - Standard
T - Adjustable Spool Stops and Throttle Spool
U - Adjustable Pilot Chokes and Adjustable Spool Stop on "B" End of Valve
V - Adjustable Spool Stop on "B" End of Valve
X - Adjustable Pilot Chokes, Meter Out

01 - D01, 1/8" Valve
02 - D02, 1/4" Valve
03 - 3/8" Valve
*04 - 1/2" Valve
06 - D06, 3/4" Valve
10 - D10, 1-1/4" Valve
12 - 1-1/2" Valve
16 - 2" Valve
20 - 2-1/2" Valve
24 - 3" Valve

*1/2" 4 way valve Quick Disconnects are not ANSI standard, they are Racine standard only.
**1/2" Valve available in all configurations.

SHADED AREAS OBSOLETE

PRESSURE CONTROLS

FE1-SBAD-C02S-00

O – Buna N Seals
F – Viton Seals

E1 – Pressure Relief Valve
E2 – Pressure Sequence Valve
E3 – Pressure Reducing Valve
E7 – Pressure Relief and Sequence Valve
E8 – Pressure Unloading Valve
E9 – Pressure Counterbalance Valve

E – Electro/Hydraulic Control
P – Pilot Operated
S – Direct Spring Operated
D – Differential Pressure Operated

A – Internal Pilot, External Drain
B – Internal Pilot, Internal Drain
E – External Pilot, External Drain
F – External Pilot, Internal Drain
C – Solenoid Vented Cartridge Valve (Normally Low, Energize to High)
S – Solenoid Vented DO-1 Valve (Normally Low, Energize to High)
M – Multiple Pressure, Solenoid DO-1 Control Valve

A – 100 PSI Minimum Pressure
B – 250 PSI Minimum Pressure
C – 500 PSI Minimum Pressure
D – 1000 PSI Minimum Pressure
E – 1500 PSI Minimum Pressure
N – 20 PSI Minimum Pressure
P – 50 PSI Minimum Pressure
R – 150 PSI Minimum Pressure

R – 150 PSI Maximum Pressure
C – 500 PSI Maximum Pressure
D – 1000 PSI Maximum Pressure
E – 1500 PSI Maximum Pressure
F – 2000 PSI Maximum Pressure
H – 3000 PSI Maximum Pressure
K – 5000 PSI Maximum Pressure

00 – Design Digit

S – 25 PSI Vent
W – 65 PSI Vent
AB – Cross Port Relief
AS – A Port to Tank, 25 PSI Vent Relief
AW – A Port to Tank, 65 PSI Vent Relief
BS – B Port to Tank, 25 PSI Vent Relief
BW – B Port to Tank, 65 PSI Vent Relief
PS – P Port to Tank, 25 PSI Vent Relief
PW – P Port to Tank, 65 PSI Vent Relief
S – Standard Pressure Port Pilot Reducing
A – A Port Sensing
B – B Port Sensing
H – Integral Return Check

01 – 1/8" NPTF Ports
02 – 1/4" NPTF Ports or 1/4" Valve
03 – 3/8" NPT Ports or 3/8" Valve
04 – 1/2" NPT Ports or 1/2" Valve
06 – 3/4" NPT Ports or 3/4" Valve
08 – 1" NPT Ports or 1" Valve
10 – 1-1/4" NPT Ports or 1-1/4" Valve
12 – 1-1/2" NPT Ports or 1-1/2" Valve
16 – 2" 4-Bolt Flanged Ports or 2" Valve
51 – # 6 SAE Ports
52 – # 8 SAE Ports
53 – #10 SAE Ports
54 – #12 SAE Ports
56 – #16 SAE Ports
58 – #20 SAE Ports
60 – #24 SAE Ports
62 – #32 SAE Ports

C – Flush Mounted, Threaded Connections
F – Foot Mounted, Flanged Connections
M – Manifold Mounted
P – Threaded Connections
R – Flanged Connections
S – Subplate Mounted (NFPA Mount)
T – Foot Mounted, Threaded Connections
I – Subplate Mounted (Industry Standard)
B – Cartridge
G – Flow Through Flange
D – Double, Foot Mtd., Thd. Connections

SHADED AREAS OBSOLETE

FLOW CONTROLS

O - Buna N Seals
F - Viton Seals

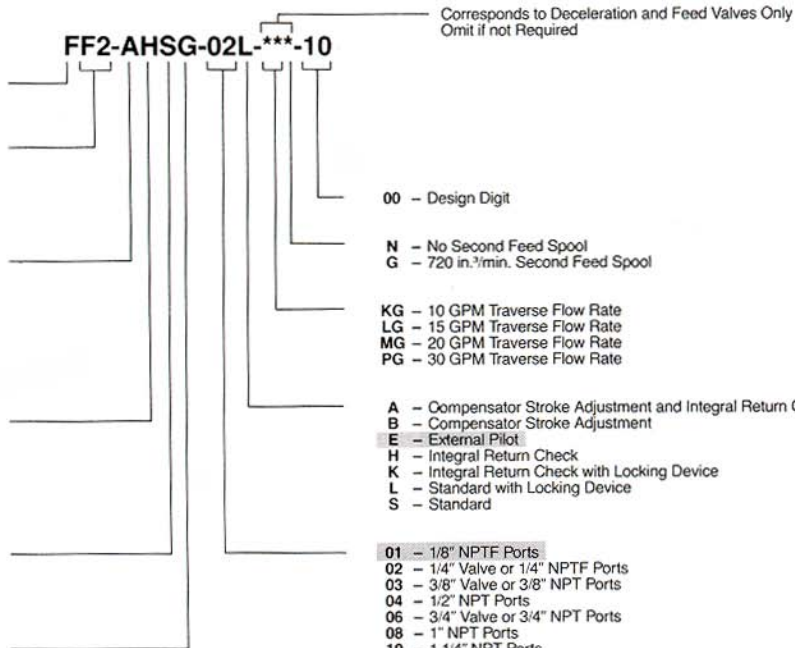
F1 - Non-Compensated, Adjustable Flow Control
F2 - Pressure Compensated, Adjustable Flow Control
F3 - Non-Compensated, Non-Adjustable Flow Control
C3 - Deceleration and Feed Valve
C6 - Deceleration and Feed Valve (Regenerative)

A - Tamper Proof Accu-Trim Adjustment
R - Removable Accu-Trim Adjustment
D - Dial Adjustment
E - Electro/Hydraulic Adjustment
R - Roller Adjustment (FC3 & FC6 Only)
N - No Adjustment
S - Screw Adjustment
M - Micrometer Adjustment

E - 1500 PSI Maximum Pressure
F - 2000 PSI Maximum Pressure
H - 3000 PSI Maximum Pressure
K - 5000 PSI Maximum Pressure
A - Roller Adjustment (Corresponds with second "R" in previous category)

C - Foot Mounted, Threaded Connections
S - Subplate Mounted
M - Manifold Mounted
P - In-Line Mounted

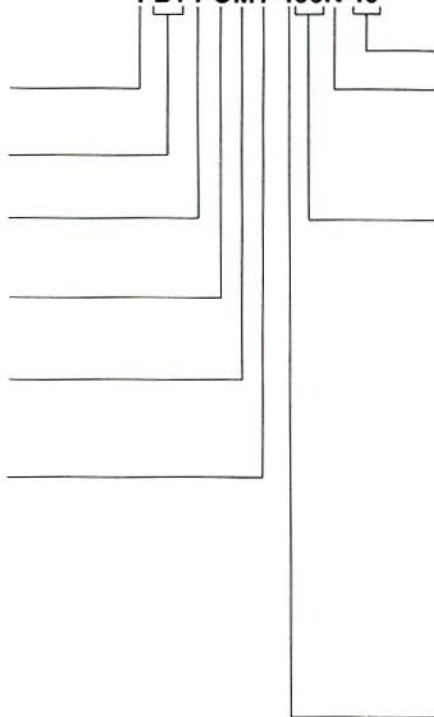
E - 150 in.³/min. Maximum Flow
F - 1 GPM Maximum Flow
G - 3 GPM Maximum Flow
H - 5 GPM Maximum Flow
J - 8 GPM Maximum Flow
K - 10 GPM Maximum Flow
L - 15 GPM Maximum Flow
M - 20 GPM Maximum Flow
N - 25 GPM Maximum Flow
O - Non-Compensated Flow
P - 30 GPM Maximum Flow
Q - 40 GPM Maximum Flow
R - 50 GPM Maximum Flow
S - 60 GPM Maximum Flow
T - 75 GPM Maximum Flow
W - Specified (or Special) Flow Rate



SHADED AREAS OBSOLETE

CHECK VALVES

FB1-POMT-106N-10



O – Buna N Seals
F – Viton Seals

B1 – Check Valve
B2 – Soft Seat Check Valve
B3 – 3 Port Shuttle Valve

P – Pilot Operated
A – Adjustable
X – Standard Direct Spring Operated

D – No Decompression Poppet
O – Poppet
W – No Spring

E – 1500 PSI Maximum
H – 3000 PSI Maximum
K – 5000 PSI Maximum
M – 10,000 PSI Maximum

C – Cartridge
D – Socket Weld Flanges
E – Butt Weld Flanges
F – Foot Mounted, Flanged Connections
M – Manifold Mounted
P – No Mounting, Threaded Connections
R – No Mounting, Flanged Connections
S – Subplate Mounted
T – Foot Mounted, Threaded Connections
A – Angle Check, Threaded Ports
B – Angle Check, Flanged Connections
G – Flow Through, Flange Mounted
V – Double

00 – Design Digit

N – Spring
S – Standard
R – O-ring on Pilot Piston
X – Blocking Check
A – A Port Only
B – B Port Only

01 – 1/8" NPTF Ports
02 – 1/4" NPTF Ports
03 – 3/8" NPT Ports
04 – 1/2" NPT Ports
06 – 3/4" NPT Ports
08 – 1" NPT Ports
10 – 1-1/4" NPT Ports
12 – 1-1/2" NPT Ports
16 – 2" NPT Ports
50 – #4 SAE Female Ports
51 – #6 SAE Female Ports
52 – #8 SAE Female Ports
53 – #10 SAE Female Ports
54 – #12 SAE Female Ports
55 – 3/4" SAE Flange Connections
56 – #16 SAE Female or 1" SAE Flange Connections (3000 PSI)
57 – 1" SAE Flange Connections (6000 PSI)
58 – #20 SAE Female or 1-1/4" SAE Flange Connections (3000 PSI)
59 – 1-1/4" SAE Flange Connections (6000 PSI)
60 – #24 SAE Female or 1-1/2" SAE Flange Connections (3000 PSI)
61 – 1-1/2" SAE Flange Connections (6000 PSI)
62 – #32 SAE Female or 2" SAE Flange Connections (3000 PSI)
63 – 2" SAE Flange Connections (6000 PSI)
71 – 3/8" Male Tube, 37° Flare Connections
72 – 1/2" Male Tube, 37° Flare Connections
73 – 5/8" Male Tube, 37° Flare Connections
74 – 3/4" Male Tube, 37° Flare Connections
76 – 1" Male Tube, 37° Flare Connections
78 – 1-1/4" Male Tube, 37° Flare Connections

2 – Normally Open
1 – Normally Closed

SHADED AREAS OBSOLETE

BOSCH DIRECTIONAL CONTROL VALVES DIRECT OPERATED

0 8 1 W V 0 6 P 1 V 1 0 0 1 W* S 1 1 5 / 6 0 - D







SIZE

- 06 – D03 (NG 6) ISO - 4401
- 10 – D05 (NG 10) ISO - 4401

SEALS

- N – BUNA
- V – VITON

CONTROL TYPE

- 1  Electrical
- 2  Hydraulic
- 4  Mechanical (Roller)
- 6  Pneumatic
- 7  Manual Lever
- 7  Manual Lever (With Detent Specify "G" at Pos.)

SPOOL CODE

SEE SPOOL CHART
(2 Digit Code in Previous Series)

ELECTRICAL CONNECTIONS

- WS – Plug Connector
DIN 43650/ISO4401
- KL – Wiring Box + Sent. Lights
- KA – Wiring Box
- KD – Wiring Box + Quick Conn.
(Brad Harrison 3 Pin Single Sol. & 5 Pin Double Sol.)
- KE – Wiring Box + Quick Conn. + Sent. Lights
- KG – Wiring Box + Quick Conn.
(Single Solenoid 5 Pin)
- KM – Wiring Box + Quick Conn. + Sent. Lights (Single Solenoid 5 Pin)

SOLENOID VOLTAGES

AC	DC
115/60	012/00
230/60	024/00
Series "D"	096/00
Dual Freq.	

ADDITIONAL INFORMATION

- 0 – Standard
- 09 – Manual Push Pin with Rubber Cover
- 11 – Spool with Metering Notches
- 51 – Solenoid Identification (U.S. ANSI B 93.9 Std.) (Can use more than one D51/11)

DESIGN SERIES

- D – Standard
- E – DC Wiring Box¹

SOLENOID OPTIONS

- C – Covered Push Pin
- EX – Explosion Proof

¹ Quick Connect for E Series is Mini Connector

IDENTIFICATION CODE ONLY

Refer to Catalog for Ordering Information.

BOSCH DIRECTIONAL CONTROL VALVES PILOT OPERATED

0 8 1 W V 1 6 P 1 N 3 0 0 1 F** R** H** X Y W S 1 1 5 / 6 0 C D /51 /55

SIZE

10 – D05 (NG 10)
16 – D07 (NG 16) ISO - 4401
25 – D08 (NG 25) ISO - 4401
32 – D10 (NG 32) ISO - 4401

SEALS

N – BUNA
V – VITON

CONTROL TYPE

3  Electrical Actuation
Hydraulic Operation

2  Hydraulic

SPOOL CODE

SEE SPOOL CHART
(2 Digit Code on Previous Series)

IDENTIFICATION CODE ONLY

Refer to Catalog for Ordering
Information.

PILOT CHOKES

F – Fixed [.040 (1mm) dia. orifice]
T – Adjustable (meter out standard)

R – Pilot Pressure Valve in P* –
/55 Design Load Check Only

H – Adjustable Spool Stops

PILOT & DRAIN

XY – Ext. Pilot & Drain
*PT – Int. Pilot & Drain
PY – Int. Pilot & Ext. Drain
XT – Ext. Pilot & Int. Drain

*NOTE: Spool symbols "00 & 02" require
a min. ΔP from P to T of:
65 PSI (4.5 Bar) D07 (NG 16)
or 90 PSI (6 Bar) D08 (NG 25).

**Omit if not used.

LOW PRESSURE VERSION

NFPA SOLENOID ID

DESIGN SERIES

D – Standard
E – DC Wiring Box¹

SOLENOID OPTIONS

— – Std. Manual Push Pin
C – No Manual Push Pin
EX – Explosion Proof

SOLENOID VOLTAGE

AC	DC
115/60	012/00
230/60	024/00
Series "D"	096/00
Dual Freq.	

ELECTRICAL CONNECTIONS

WS – Plug Connector
DIN 43650/ISO4401
KL – Wiring Box + Sent. Lights
KA – Wiring Box
KD – Wiring Box + Quick Conn.
(Brad Harrison 3 Pin Single
Sol. & 5 Pin Double Sol.)
KE – Wiring Box + Quick Conn. +
Sent. Lights
KG – Wiring Box + Quick Conn.
(Single Solenoid 5 Pin)
KM – Wiring Box + Quick Conn. +
Sent. Light (Single Solenoid
5 Pin)

¹ Quick Connect for E Series
is Mini Connector

SPOOL CHART

SPOOL NO.	SYMBOLS	TRANSITION	SPOOL NO.	SYMBOLS	TRANSITION
000			012		
001			014*		
002*			016		
004			018		
005			020		
006			D4**		
009			024		
010			026		
010			027		
011			028		

*Metering notches Std.

**NG 25/55 only.

SPOOL CHART – Cont'd.

SPOOL NO.	SYMBOLS	TRANSITION	SPOOL NO.	SYMBOLS	TRANSITION
031			070		
032			074		
033			087		
036			088		
040			089		
041			091		Pressure port leakage bleeds to tank in the center position
042			095		
045			923		
062			930		
068					

PRESSURE CONTROLS DIRECT ACTING (Inline & Cartridge)

0532-VA-51-N-220*-H

RELIEF VALVE
VA Style

MOUNTING
51 - Inline Mounted #8 SAE
10 - Cartridge M30 - 1.5

SEALS
N - Buna

ADJUSTMENT
D - Handwheel
H - Fixed
K - Stem

PRESSURE SETTING
Fixed

220 PSI (15 Bar)
500 PSI (35 Bar)
750 PSI (50 Bar)
1000 PSI (70 Bar)
1500 PSI (100 Bar)
2000 PSI (140 Bar)
2500 PSI (170 Bar)
2750 PSI (190 Bar)
3000 PSI (210 Bar)
3600 PSI (250 Bar)
4300 PSI (300 Bar)

Adjustable

15-500 PSI (1-35 Bar)
200-1000 PSI (15-70 Bar)
200-2100 PSI (15-150 Bar)
750-4300 PSI (50-300 Bar)

PRESSURE CONTROL VALVES PILOT OPERATED (Inline & Flange)

FE1-PBAE/AE-G-54-W-A-WS024/00

RELIEF VALVE

OPERATION

- B - Pilot Operated
- C - Solenoid Vent
- M - Multi Pressure

PRESSURE RANGE*

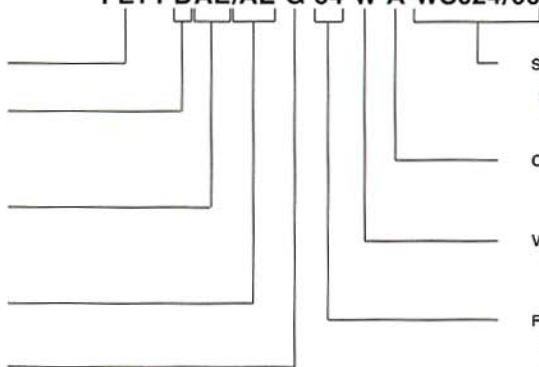
- AE - 100 to 1500 PSI (7-103 Bar)
- EH - 1500 to 3000 PSI (103-210 Bar)
- EK - 1500 to 5000 PSI (103-345 Bar)

SECOND PRESSURE

(If Required)

MOUNTING

- G - Gasket
- T - Inline
(Threaded
Connections)



SOLENOID OPTIONS

- WS - Hirshman
- SAE - 1/4" Spade
- LW - Lead Wires

CONTROL OPTIONS

- A - Normally Open
- F - Normally Closed

VENT SPRING

- W - 65 PSI
- S - 25 PSI

FLANGE SIZE

- 54 - 3/4" SAE
- 56 - 1" SAE
- 58 - 1 1/4" SAE
- 60 - 1 1/2" SAE
- 55 - 3/4" SAE Code 62 (5000 PSI)
- 57 - 1" SAE Code 62 (5000 PSI)
- 59 - 1 1/4" SAE Code 62 (5000 PSI)
- 61 - 1 1/2" SAE Code 62 (5000 PSI)

TANK PORT

- #16 SAE
- #16 SAE
- #20 SAE
- #24 SAE
- #20 SAE
- #16 SAE
- #24 SAE
- #24 SAE

*All springs are capable of 100 PSI min. setting.

PORT SIZE (Inline Mounted)

- 54 - #12 SAE
- 56 - #16 SAE
- 58 - #20 SAE

PRESSURE CONTROLS SUBPLATE MOUNTED

081-DV-10-P1-08-H-V-502-K-WS024/00D51-502-K

RELIEF VALVE
DV – Relief
DMV – Reducing

SIZE
06 – NG 6
10 – NG 10
25 – NG 25

MOUNTING
P1 – D03 (NG 6 Size)
Form P (NG 10 & NG 25 Size)

BASIC OPERATION
00 – Direct Acting
01 – Pilot Operated
06 – External Pilot
08 – External Drain
09 – Internal Pilot
10 – Vented (Normally Open)
12 – Vented (Normally Closed)
14 – Dual Pressure (Low to High)
16 – Dual Pressure (High to Low)
18 – Dual Pressure (Vented)
31 – Reducing
32 – Reducing with By-Pass Check
33 – Remote Operated
34 – Remote Operated with
By-Pass Check

STYLE (NG 6 Size Only)
H – Horizontal
V – Vertical

SEALS
V – Viton

ADJUSTMENT
D – Handwheel
E – Knob
F – Key Lock
K – Stem

SECOND PRESSURE
502 – 50 to 2400 PSI
503 – 50 to 4600 PSI

SOLENOID VOLTAGE
WS024/00D51
WS115/60D51

ADJUSTMENT
D – Handwheel
E – Knob
F – Key Lock
K – Stem

PRESSURE SETTINGS
502 – 50 to 2400 PSI (Some valves
have a 750 PSI min. setting.)
511 – 50 to 500 PSI
513 – 50 to 4600 PSI (Some valves
have a 100 PSI min. setting.)
516 – 50 to 1200 PSI
518 – 750 to 3600 PSI

9 535 233 756

HPUS RSB 000/2 US(10.01)

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