# PROCON PRODUCTS

Series 1 - 6 Rotary Vane pumps - Model Number Matrix

1 1 1 A 100 F 1 1 A A 828

### PRODUCT CLASSIFICATION

## 1 - ROTARY VANE PUMP

### **AGENCY APPROVALS**

- 0 NON-FOOD GRADE (1.5% Max. Lead)- NO AGENCY APPROVAL
- 1 NSF STD. 169 LISTED (1.5% Max Lead) (SEE NOTE 1)
- 2 WRC
- 3 FOOD GRADE MATERIAL/ NO AGENCY APPROVAL (1.5% Max. Lead)
- P- SPARE PARTS KIT
- Z NON-FOOD GRADE (.20% Max. Lead)- NO AGENCY APPROVAL
- 4 NSF STD. 169 LISTED (.20% Max. Lead) (SEE NOTE 1)
- Y NON-FOOD GRADE (.10% Max. Lead)- NO AGENCY APPROVAL
- 5 NSF STD. 169 LISTED (.10% Max. Lead) (SEE NOTE 1)
- 6- WRC (.20% Max Lead)
- W 254 SMO (316 S/S) NO AGENCY APPROVAL
- T- TIFQ DM 174
- D DZR BRASS AUSTRALIA ONLY NO NSF SERIES 1, 2 AND 4

### **SERIES**

### 1 - SERIES 1 BRASS - INTEGRAL STRAINER - 3/8 NPT PORTS

- 2 SERIES 2 BRASS 3/8 NPT PORTS
- 3 SERIES 3 STAINLESS STEEL 3/8 NPT PORTS
- 4 SERIES 4 BRASS 1/2 NPT PORTS
- 5 SERIES 5 STAINLESS STEEL- 1/2 NPT PORTS 6 - SERIES 6 STAINLESS STEEL - 1" NPT PORTS
- 7 SERIES 7 BRASS MINI PRO 3/8 NPT
- 8 SERIES 8 STAINLESS STEEL INTEGRAL STRAINER 3/8 NPT PORTS
- 9 SERIES 9 BRASS SHORT PUMP G 3/8 PORTS
- A SERIES 1 BRASS INTEGRAL STRAINER G 3/8 PORTS
- **B-SERIES 2 BRASS G 3/8 PORTS**
- C SERIES 3 STAINLESS STEEL G 3/8 PORTS
- D SERIES 4 BRASS G 1/2 PORTS
- E SERIES 5 STAINLESS STEEL- G 1/2 PORTS
- F SERIES 7 BRASS MINI PRO G 3/8 PORTS
- G SERIES 8 STAINLESS STEEL INTEGRAL STRAINER G 3/8 PORTS

### MOUNTING AND DRIVE CONFIGURATION

- A CLAMP ON WITH .188" DOUBLE FLAT DRIVE
- **B CLAMP ON WITH 1143 BRONZE COUPLING**
- C CLAMP ON WITH 1143-2 PLASTIC COUPLING
- D CLAMP ON WITH SLOTTED SHAFT ONLY NO COUPLING
- E BOLT ON WITH SINGLE FLAT DRIVE (SERIES 1-5 ONLY)
- J BOLT ON WITH .25 DOUBLE FLAT DRIVE (SEE NOTE 2)
- **K BOLT ON WITH 3018 BRONZE COUPLING**
- L BOLT ON WITH 3018-1 OVERSIZE BRONZE COUPLING
- M BOLT ON WITH SLOTTED SHAFT ONLY
- N BOLT ON WITH KEY SLOT DRIVE (SERIES 6 ONLY) R - LONG CLAMP ON WITH DOUBLE FLAT DRIVE (SEE NOTE 11)
- S CLAMP ON WITH SINGLE FLAT DRIVE

(45 LPH)

(500 LPH)

(575 LPH)

(650 LPH)

(725 LPH)

- T BOLT-ON S-TYPE FAEMA STYLE MOUNT WITH FAEMA ROTOR
- V CLAMP-ON WITH METRIC KEYWAY ROTOR W - BOLT-ON WITH METRIC KEYWAY ROTOR
- Y BOLT-ON WITH FAEMA DOUBLE FLAT DRIVE

# FLOWRATE (SEE NOTE 10)

SERIES 1, 2 AND 3 015 - 15 GPH

025 - 25 CDL

025 - 25 GPH	(/5 LPH)
035 - 35 GPH	(100 LPH)
050 - 50 GPH	(150 LPH)
060 - 60 GPH	(180 LPH)
070 - 70 GPH	(210 LPH)
080 - 80 GPH	(240 LPH)
100 - 100 GPH	(300 LPH)
110 - 110 GPH	(330 LPH)
125 - 125 GPH	(375 LPH)
140 - 140 GPH	(425 LPH)
SERIES 4 AND 5	
115 - 115 GPH	(350 LPH)
140 - 140 GPH	(425 LPH)
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#### 265 - 265 GPH (800 LPH) 330 - 330 GPH (HIGH FLOW) - NO RELIEF VALVE (1000 LPH)

# **SERIES 6**

165 - 165 GPH

190 - 190 GPH

215 - 215 GPH

240 - 240 GPH

300 - 300 GPH - NO RELIEF VALVE	(900 LPH)
<b>360 - 360 GPH - NO RELIEF VALVE</b>	(1080 LPH)
420 - 420 GPH - NO RELIEF VALVE	(1260 LPH)
480 - 480 GPH - NO RELIEF VALVE	(1440 LPH)
540 - 540 GPH - NO RELIEF VALVE	(1620 LPH)
600 - 600 GPH - NO RELIEF VALVE	(1800 LPH)
<b>660 - 660 GPH - NO RELIEF VALVE</b>	(2000 LPH)

180 PRESSURE SETTING (RELIEF VALVE) (SEE NOTE 5)

PRESSURE SETTING IN PSI (POUNDS PER SQ. IN.)

**MOTOR NUMBER (OPTIONAL) (SEE NOTE 19)** 

828 - 1/3HP CARB MOTOR (EXAMPLE)

PRESSURE RANGE (RELIEF VALVE SPRING)

A - 151 TO 250 PSI - DEFAULT SETTING 170 PSI (SEE NOTE 4)

10 to 17 BAR - DEFAULT SETTING 14 BAR B - 100 TO 150 PSI - DEFAULT SETTING 130 PSI

7 TO 10 BAR - DEFAULT SETTING 10 BAR

C - 60 TO 99 PSI - DEFAULT SETTING 99 PSI

4 TO 7 BAR - DEFAULT SETTING 7 BAR

D - 30 TO 59 PSI - DEFAULT SETTING 50 PSI (SEE NOTE 6)

2 TO 4 BAR - DEFAULT SETTING 3.5 BAR

**X - NO SETTING** 

### **VALVE TYPE AND CONFIGURATION**

- A PLASTIC, HIGH TEMP-BYPASS W/SS INSERT
- **B PLASTIC, HIGH TEMP-SOLID W/SS INSERT**
- C PLASTIC, HIGH TEMP BALANCED BYPASS W/SS INSERT
- D PLASTIC, HIGH TEMP BALANCED SOLID W/SS INSERT
- F PLASTIC, HIGH TEMP-EXTERNAL ADJUST BYPASS W/SS INSERT
- G PLASTIC, HIGH TEMP-EXTERNAL ADJUST SOLID W/SS INSERT
- P BRASS, HIGH TEMP-SOLID W/SS INSERT
- Q PLASTIC, HIGH TEMP BALANCE SOLID- W/HEX SCREW/NUT (AS OF 4-25-16)
- R STAINLESS STEEL, HIGH TEMP-SOLID
- S STAINLESS STEEL, HIGH TEMP-SOLID, EXTERNAL ADJUST
- W PLASTIC, HIGH TEMP BALANCE BYPASS- W/HEX SCREW/NUT
- Y PLASTIC, HIGH TEMP BALANCE SOLID- W/HEX SCREW
- Z PLASTIC, HIGH TEMP BALANCE BYPASS- W/HEX SCREW
- 1 PLASTIC, LOW TEMP-BYPASS NO INSERT
- 2 PLASTIC, LOW TEMP-SOLID NO INSERT
- 3 PLASTIC, LOW TEMP BALANCED BYPASS NO INSERT
- 4 PLASTIC, LOW TEMP BALANCED SOLID NO INSERT
- 5 PLASTIC, LOW TEMP-EXTERNAL ADJUST BYPASS NO INSERT
- 6 PLASTIC, LOW TEMP-EXTERNAL ADJUST SOLID NO INSERT
- **X NO RELIEF VALVE**

# **CLEARANCES**

- 1 STANDARD CLEARANCE
- 2 SPCL CLEARANCE (1x) LINER & BRGS
- 3 SPECIAL CLEARANCE (2x) LINER & (1x) BRGS.
- 4 STANDARD CLEARANCE WITH SEAL CIRCULATION
- 5 SPCL CLEARANCE (1x) LINER AND (1x) SEAL CIRC. BRGS.
- 6 SPCL CLEARANCE (1x) LINER AND (2x) SEAL CIRC. BRGS.

# **ROTATION / SLINGER / VANES / PINS**

- 1 CLOCKWISE (SEE NOTE 18.)
- 2 COUNTERCLOCKWISE (SEE NOTE 18.)
- 3 CLOCKWISE / SLINGER (SEE NOTE 18.)
- 4 COUNTERCLOCKWISE / SLINGER (SEE NOTE 18.) A - CLOCKWISE / PEEK VANES WITH VANE PINS
- **B- CLOCKWISE / PEEK VANES WITHOUT VANE PINS**
- C CLOCKWISE / SLINGER / PEEK VANE WITH VANE PINS D - CLOCKWISE / SLINGER / PEEK VANE WITHOUT VANE PINS
- E- CLOCKWISE / CARBON VANES WITHOUT VANE PINS
- F- CLOCKWISE / SLINGER / CARBON VANES WITHOUT VANE PINS

# **ELASTOMER**

- F-FDA GRADE NITRILE TYPE 21 OR TYPE 2106
  - **USED INTERCHANGEABLY**
- **G ETHYLENE PROPYLENE TYPE 21 SEAL (SEE NOTE 8)** R--FLUOROCARBON-TYPE 21 SEAL
- S NEOPRENE TYPE 21 SEAL (SEE NOTE 9) W - ETHYLENE PROPYLENE - TYPE 21 SEAL -
- WRC APPROVED COMPOUND
- A NITRILE O-RINGS AND EP TYPE 21 BALANCED SEAL W/ SILICON
- CARBIDE ST. RING
- **B NITRILE O-RINGS, TYPE 21 SEAL, SILICON CARBIDE, HARD CARBON**

# NOTES:

- 1. Brass pumps are NSF listed for potable water only. Stainless steel pumps are NSF listed for potable and carbonated water.
- 2. Bolt on model with .25" double flat drive for use in Japan only. ( No NSF.)
- 3. Counterclockwise rotation not available for Series 1 pumps.
- 4. For the Beverage Industry the default relief valve pressure setting is 250 PSI.
- 5. The relief valve pressure setting is not part of the model matrix number. It is for customer reference only.
- 6. This pressure range is not available in valve configurations C, D, K or L.
- 7. Passivation is defined as a passivated housing only.
- 8. The EP and Neoprene elastomers are no longer available for Series 6 pumps.
- 9. Neoprene elastomer not available for the following relief valve configurations: C, D, F, G, 3, 4, 5, and 6.
- 10. GPH rating at 60HZ (1750 RPM) LPH rating at 50HZ (1400 RPM).
- 11. Long clamp on pumps are series 1 and 4 only
- 12. Series 6 pumps do not have a slinger.
- 13. All longneck Series 1 pumps must have relief valve.
- 14. Type"F" and "A" elastomers are NSF approved.
- 15. Type"F" elastomer is TIFQ approved.
- 16. Type "W" elastomer is WRAS approved. 17. Series 8 and G are not available at this time.
- 18. Unless otherrwise indicated, pumps use carbon vanes and vane pins. 19. Motor numbers range from 600 to 999 and alphabetically from AAA to ZZZ. Pressure settings
  - range from 30 to 250 PSI. Both pressure setting and motor number may appear simutaneously.