PROCON PRODUCTS

Series 1 - 6 Rotary Vane pumps - Model Number Matrix

1 1 1 A 100 F 1 1 A A 180

PRODUCT CLASSIFICATION

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)
- 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

- 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
- T BOLT ON WITH FAEMA STYLE MOUNT
- V CLAMP-ON WITH METRIC KEYWAY ROTOR W - BOLT-ON WITH METRIC KEYWAY ROTOR
- FLOWRATE (SEE NOTE 10)

	SERIES 1, 2 AND 3	
	015 - 15 GPH	(45 LPH)
	025 - 25 GPH	(75 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)
	165 - 165 GPH	(500 LPH)
	190 - 190 GPH	(575 LPH)
	215 - 215 GPH	(650 LPH)
	240 - 240 GPH	(725 LPH)
	265 - 265 GPH	(800 LPH)
	330 - 330 GPH (HIGH FLOW)	- NO RELIEF VALVE (1000 LPH)

SERIES 6

300 - 300 GPH - NO RELIEF VALVE	(900 LPH)
360 - 360 GPH - NO RELIEF VALVE	(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)
660 - 660 GPH - NO RELIEF VALVE	(2000 LPH)

PRESSURE SETTING (RELIEF VALVE) (SEE NOTE 5)

PRESSURE RANGE (RELIEF VALVE SPRING)

- 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

- B PLASTIC, HI TEMP-SOLID W/SS INSERT
- C PLASTIC, HI TEMP BALANCED BYPASS W/SS INSERT D PLASTIC, HI TEMP BALANCED SOLID W/SS INSERT
- F PLASTIC, HI TEMP-EXTERNAL ADJUST BYPASS W/SS INSERT
- G PLASTIC, HI TEMP-EXTERNAL ADJUST SOLID W/SS INSERT
- P BRASS, HI TEMP-SOLID W/SS INSERT
- R STAINLESS STEEL, HI TEMP-SOLID S STAINLESS STEEL, HI TEMP-SOLID, EXTERNAL ADJUST
- 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

(SEE NOTE 18.)

(SEE NOTE 18.)

(SEE NOTE 18.)

(SEE NOTE 18.)

ROTATION / SLINGER / VANES / PINS

- 1 CLOCKWISE
- 2 COUNTERCLOCKWISE
- 3 CLOCKWISE / SLINGER
- 4 COUNTERCLOCKWISE / SLINGER
- 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
- 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.
- 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.
- Passivation is defined as a passivated housing only.
- The EP and Neoprene elastomers are no longer available for Series 6 pumps.
- 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.