

# PROCON PRODUCTS

## Series 1 - 6 Rotary Vane pumps - Model Number Matrix

	1	1	1	A	100	F	1	1	A	A	828	180
<b>PRODUCT CLASSIFICATION</b>	1 - ROTARY VANE PUMP											
<b>AGENCY APPROVALS</b>	0 - NON-FOOD GRADE (.15% Max. Lead)- NO AGENCY APPROVAL 1 - NSF STD. 169 LISTED (.15% Max Lead) - (SEE NOTE 1) 2 - WRC 3 - FOOD GRADE MATERIAL/ NO AGENCY APPROVAL - (.15% 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											
<b>SERIES</b>	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											
<b>MOUNTING AND DRIVE CONFIGURATION</b>	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 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 X - (SEE NOTE 20)											
<b>FLOWRATE (SEE NOTE 10)</b>	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) XXX - (SEE NOTE 20)  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)											
<b>PRESSURE SETTING (RELIEF VALVE) (SEE NOTE 5)</b>	PRESSURE SETTING IN PSI (POUNDS PER SQ. IN.)											
<b>MOTOR NUMBER (OPTIONAL) (SEE NOTE 19)</b>	828 - 1/3HP CARB MOTOR (EXAMPLE)											
<b>PRESSURE RANGE (RELIEF VALVE SPRING)</b>	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 2 TO 4 BAR - DEFAULT SETTING 3.5 BAR X - NO SETTING											
<b>VALVE TYPE AND CONFIGURATION</b>	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 H - PLASTIC, HIGH TEMP, BALANCED BYPASS - W/PLASTIC PISTON & SS INSERT J - PLASTIC, HIGH TEMP, BALANCED SOLID - W/PLASTIC PISTON & SS INSERT P - BRASS, HIGH TEMP, SOLID - W/SS INSERT Q - PLASTIC, HIGH TEMP, BALANCED SOLID - W/SS INSERT, HEX SCREW, & NUT R - STAINLESS STEEL, HIGH TEMP, SOLID - W/SS INSERT S - STAINLESS STEEL, HIGH TEMP, SOLID, EXTERNAL ADJUST - W/SS INSERT T - HIGH TEMP, BYPASS, THERMOSTATIC, EXTERNAL ADJUST - W/SS INSERT W - PLASTIC, HIGH TEMP, BALANCED BYPASS - W/SS INSERT, HEX SCREW, & NUT Y - PLASTIC, HIGH TEMP, BALANCED SOLID - W/SS INSERT & HEX SCREW Z - PLASTIC, HIGH TEMP, BALANCED BYPASS - W/SS INSERT & 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											
<b>CLEARANCES</b>	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. X - (SEE NOTE 20)											
<b>ROTATION / SLINGER / VANES / PINS</b>	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 X - (SEE NOTE 20)											
<b>ELASTOMER</b>	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 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											

### NOTES:

- Brass pumps are NSF listed for potable water only. Stainless steel pumps are NSF listed for potable and carbonated water.
- Bolt on model with .25" double flat drive for use in Japan only. (No NSF.)
- Counterclockwise rotation not available for Series 1 pumps.
- For the Beverage Industry - the default relief valve pressure setting is 250 PSI.
- The relief valve pressure setting is not part of the model matrix number. It is for customer reference only.
- (DELETED 2/2/2018)
- Passivated 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, H, J, Q, 3, 4, 5, and 6.
- GPH rating at 60HZ (1750 RPM) - LPH rating at 50HZ (1400 RPM).
- Long clamp on pumps are series 1 and 4 only
- Series 6 pumps do not have a slinger.
- All longneck Series 1 pumps must have relief valve.
- Type "F" and "A" elastomers are NSF approved.
- Type "F" elastomer is TIFQ approved.
- Type "W" elastomer is WRAS approved.
- Series 8 and G are not available at this time.
- Unless otherwise indicated, pumps use carbon vanes and vane pins.
- 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 simultaneously.
- Applicable only for thermostatic valve and valve kit.