

# 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>		<b>PRESSURE SETTING (RELIEF VALVE) (SEE NOTE 5)</b>
<b>1 - ROTARY VANE PUMP</b>		<b>PRESSURE SETTING IN PSI (POUNDS PER SQ. IN.)</b>
<b>AGENCY APPROVALS</b>		<b>MOTOR NUMBER (OPTIONAL) (SEE NOTE 19)</b>
0 - NON-FOOD GRADE (1.5% Max. Lead)- NO AGENCY APPROVAL		828 - 1/3HP CARB MOTOR (EXAMPLE)
1 - NSF STD. 169 LISTED (1.5% Max Lead) - (SEE NOTE 1)		<b>PRESSURE RANGE (RELIEF VALVE SPRING)</b>
2 - WRC		A - 151 TO 250 PSI - DEFAULT SETTING 170 PSI (SEE NOTE 4)
3 - FOOD GRADE MATERIAL/ NO AGENCY APPROVAL - (1.5% Max. Lead)		10 to 17 BAR - DEFAULT SETTING 14 BAR
P- SPARE PARTS KIT		B - 100 TO 150 PSI - DEFAULT SETTING 130 PSI
Z - NON-FOOD GRADE (.20% Max. Lead)- NO AGENCY APPROVAL		7 TO 10 BAR - DEFAULT SETTING 10 BAR
4 - NSF STD. 169 LISTED (.20% Max. Lead) - (SEE NOTE 1)		C - 60 TO 99 PSI - DEFAULT SETTING 99 PSI
Y - NON-FOOD GRADE (.10% Max. Lead)- NO AGENCY APPROVAL		4 TO 7 BAR - DEFAULT SETTING 7 BAR
5 - NSF STD. 169 LISTED (.10% Max. Lead) - (SEE NOTE 1)		D - 30 TO 59 PSI - DEFAULT SETTING 50 PSI (SEE NOTE 6)
6- WRC - (.20% Max Lead)		2 TO 4 BAR - DEFAULT SETTING 3.5 BAR
W - 254 SMO (316 S/S) - NO AGENCY APPROVAL		X - NO SETTING
T- TIFQ - DM 174		<b>VALVE TYPE AND CONFIGURATION</b>
D - DZR BRASS - AUSTRALIA ONLY - NO NSF - SERIES 1, 2 AND 4		A - PLASTIC, HIGH TEMP-BYPASS W/SS INSERT
<b>SERIES</b>		B - PLASTIC, HIGH TEMP-SOLID - W/SS INSERT
1 - SERIES 1 BRASS - INTEGRAL STRAINER - 3/8 NPT PORTS		C - PLASTIC, HIGH TEMP BALANCED BYPASS - W/SS INSERT
2 - SERIES 2 BRASS - 3/8 NPT PORTS		D - PLASTIC, HIGH TEMP BALANCED SOLID - W/SS INSERT
3 - SERIES 3 STAINLESS STEEL - 3/8 NPT PORTS		F - PLASTIC, HIGH TEMP-EXTERNAL ADJUST BYPASS - W/SS INSERT
4 - SERIES 4 BRASS - 1/2 NPT PORTS		G - PLASTIC, HIGH TEMP-EXTERNAL ADJUST SOLID - W/SS INSERT
5 - SERIES 5 STAINLESS STEEL- 1/2 NPT PORTS		P - BRASS, HIGH TEMP-SOLID - W/SS INSERT
6 - SERIES 6 STAINLESS STEEL - 1" NPT PORTS		Q - PLASTIC, HIGH TEMP BALANCE SOLID- W/HEX SCREW/NUT (AS OF 4-25-16)
7 - SERIES 7 BRASS MINI PRO - 3/8 NPT		R - STAINLESS STEEL, HIGH TEMP-SOLID
8 - SERIES 8 STAINLESS STEEL - INTEGRAL STRAINER - 3/8 NPT PORTS		S - STAINLESS STEEL, HIGH TEMP-SOLID, EXTERNAL ADJUST
9 - SERIES 9 BRASS SHORT PUMP - G 3/8 PORTS		W - PLASTIC, HIGH TEMP BALANCE BYPASS- W/HEX SCREW/NUT
A - SERIES 1 BRASS - INTEGRAL STRAINER - G 3/8 PORTS		Y - PLASTIC, HIGH TEMP BALANCE SOLID- W/HEX SCREW
B - SERIES 2 BRASS - G 3/8 PORTS		Z - PLASTIC, HIGH TEMP BALANCE BYPASS- W/HEX SCREW
C - SERIES 3 STAINLESS STEEL - G 3/8 PORTS		1 - PLASTIC, LOW TEMP-BYPASS - NO INSERT
D - SERIES 4 BRASS - G 1/2 PORTS		2 - PLASTIC, LOW TEMP-SOLID - NO INSERT
E - SERIES 5 STAINLESS STEEL- G 1/2 PORTS		3 - PLASTIC, LOW TEMP BALANCED BYPASS - NO INSERT
F - SERIES 7 BRASS MINI PRO - G 3/8 PORTS		4 - PLASTIC, LOW TEMP BALANCED SOLID - NO INSERT
G - SERIES 8 STAINLESS STEEL - INTEGRAL STRAINER - G 3/8 PORTS		5 - PLASTIC, LOW TEMP-EXTERNAL ADJUST BYPASS - NO INSERT
<b>MOUNTING AND DRIVE CONFIGURATION</b>		6 - PLASTIC, LOW TEMP-EXTERNAL ADJUST SOLID - NO INSERT
A - CLAMP ON WITH .188" DOUBLE FLAT DRIVE		X - NO RELIEF VALVE
B - CLAMP ON WITH 1143 BRONZE COUPLING		<b>CLEARANCES</b>
C - CLAMP ON WITH 1143-2 PLASTIC COUPLING		1 - STANDARD CLEARANCE
D - CLAMP ON WITH SLOTTED SHAFT ONLY - NO COUPLING		2 - SPCL CLEARANCE (1x) LINER & BRGS
E - BOLT ON WITH SINGLE FLAT DRIVE (SERIES 1-5 ONLY)		3 - SPECIAL CLEARANCE (2x) LINER & (1x) BRGS.
J - BOLT ON WITH .25 DOUBLE FLAT DRIVE (SEE NOTE 2)		4 - STANDARD CLEARANCE WITH SEAL CIRCULATION
K - BOLT ON WITH 3018 BRONZE COUPLING		5 - SPCL CLEARANCE (1x) LINER AND (1x) SEAL CIRC. BRGS.
L - BOLT ON WITH 3018-1 OVERSIZE BRONZE COUPLING		6 - SPCL CLEARANCE (1x) LINER AND (2x) SEAL CIRC. BRGS.
M - BOLT ON WITH SLOTTED SHAFT ONLY		<b>ROTATION / SLINGER / VANES / PINS</b>
N - BOLT ON WITH KEY SLOT DRIVE (SERIES 6 ONLY)		1 - CLOCKWISE (SEE NOTE 18.)
R - LONG CLAMP ON WITH DOUBLE FLAT DRIVE (SEE NOTE 11)		2 - COUNTERCLOCKWISE (SEE NOTE 18.)
S - CLAMP ON WITH SINGLE FLAT DRIVE		3 - CLOCKWISE / SLINGER (SEE NOTE 18.)
T - BOLT-ON S-TYPE FAEMA STYLE MOUNT WITH FAEMA ROTOR		4 - COUNTERCLOCKWISE / SLINGER (SEE NOTE 18.)
V - CLAMP-ON WITH METRIC KEYWAY ROTOR		A - CLOCKWISE / PEEK VANES WITH VANE PINS
W - BOLT-ON WITH METRIC KEYWAY ROTOR		B - CLOCKWISE / PEEK VANES WITHOUT VANE PINS
Y - BOLT-ON WITH FAEMA DOUBLE FLAT DRIVE		C - CLOCKWISE / SLINGER / PEEK VANE WITH VANE PINS
<b>FLOWRATE (SEE NOTE 10)</b>		D - CLOCKWISE / SLINGER / PEEK VANE WITHOUT VANE PINS
<b>SERIES 1, 2 AND 3</b>		E - CLOCKWISE / CARBON VANES WITHOUT VANE PINS
015 - 15 GPH	(45 LPH)	F - CLOCKWISE / SLINGER / CARBON VANES WITHOUT VANE PINS
025 - 25 GPH	(75 LPH)	<b>ELASTOMER</b>
035 - 35 GPH	(100 LPH)	F - FDA GRADE NITRILE - TYPE 21 OR TYPE 2106
050 - 50 GPH	(150 LPH)	USED INTERCHANGEABLY
060 - 60 GPH	(180 LPH)	G - ETHYLENE PROPYLENE - TYPE 21 SEAL (SEE NOTE 8)
070 - 70 GPH	(210 LPH)	R - FLUOROCARBON - TYPE 21 SEAL
080 - 80 GPH	(240 LPH)	S - NEOPRENE - TYPE 21 SEAL (SEE NOTE 9)
100 - 100 GPH	(300 LPH)	W - ETHYLENE PROPYLENE - TYPE 21 SEAL -
110 - 110 GPH	(330 LPH)	WRC APPROVED COMPOUND
125 - 125 GPH	(375 LPH)	A - NITRILE O-RINGS AND EP TYPE 21 BALANCED SEAL W/ SILICON
140 - 140 GPH	(425 LPH)	CARBIDE ST. RING
<b>SERIES 4 AND 5</b>		B - NITRILE O-RINGS, TYPE 21 SEAL, SILICON CARBIDE, HARD CARBON
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)	
<b>SERIES 6</b>		
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)	

### 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.
- 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.
- 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.