

# PROCON® Products

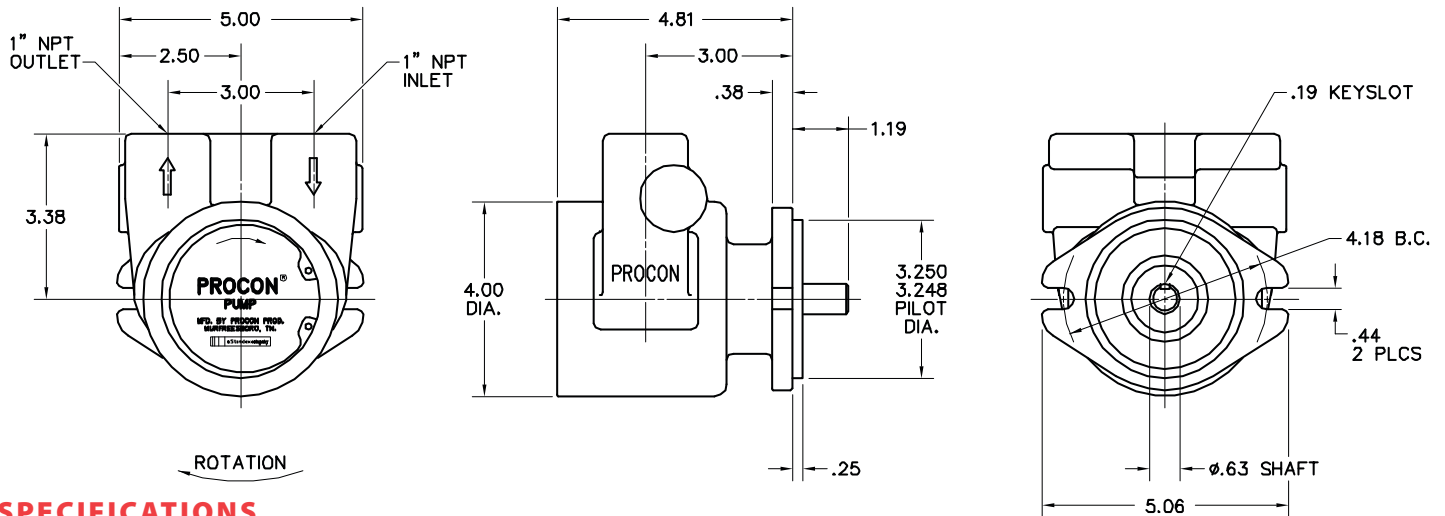
## Series 6 Pump

- Positive Displacement Rotary Vane Pump
- Flow ranging from 300 to 660 gallons per hour (requires flooded inlet) at discharge up to 250 psi
- Maintenance Free
- Low Vibration and Pulsation Characteristics
- 303 Stainless Steel Construction
- Available hardware for 56C Frame Motors (mounting kit part # 3341-1)



### TYPICAL APPLICATIONS

- Circulation
- Reverse Osmosis
- Booster Pumps
- Solar Applications
- Hydraulic Systems
- Desalination



### SPECIFICATIONS

Body Material	Type 303 stainless steel	Rotation (viewed from nameplate end)	Clockwise
Capacity	5-11 GPM	Dry Weight	Approximately 15 lbs.
Nominal Speed	1725 RPM	Dimensions	5" x 5.38" x 4.81"
Typical Horsepower Required	1-2 HP	Self Priming (water)	6 ft. Maximum Lift
Maximum Discharge Pressure	250 PSI	Port Size	1" NPT Inlet and Outlet

## PROCON® Products

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"QUALITY PRODUCTS – DELIVERED ON TIME"



# Series 6 Nominal Volume at 1725 RPM See note at bottom

FLOW RATE (GPH)	GALLONS PER HOUR					BRAKE HORSEPOWER				
	PRESSURE (PSI)					PRESSURE (PSI)				
	50	100	150	200	250	50	100	150	200	250
660	663	660	657	654	651	.50	.95	1.40	1.85	2.35
600	612	609	606	603	600	.50	.90	1.35	1.80	2.30
540	552	549	546	543	540	.50	.85	1.30	1.70	2.00
480	489	486	483	480	477	.45	.75	1.15	1.50	1.80
420	435	432	429	426	423	.45	.70	1.00	1.35	1.75
360	372	369	366	363	360	.40	.65	.95	1.25	1.55
300	303	300	297	294	291	.35	.55	.85	1.15	1.45

Note: Nominal flow rating for each pump model is based on operating the pump at a speed of 1725 rpm, at a discharge pressure of 100 psi, with 70°F tap water as the fluid. The values are measured averages; individual pumps will deviate from these values. Because the pumps are positive displacement pumps, the discharge flow (in gallons per hour) is directly proportional to the speed at which the pump is being driven (800 rpm - minimum, 1725 rpm - maximum for Series 6, 2300 rpm - maximum for Series 1, 2, 3, 4, & 5). Use these charts to find your actual flow and minimum power requirements.

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

1 1 1 A 100 E 1 1 A A 180

**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 - (1.5% Max. Lead) NO AGENCY LISTING  
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)  
W - 254 SMO (316 S/S) - NO AGENCY APPROVAL

**SERIES**  
1 - SERIES 1 BRASS - INTEGRAL STRAINER  
2 - SERIES 2 BRASS  
3 - SERIES 3 STAINLESS STEEL  
4 - SERIES 4 BRASS  
5 - SERIES 5 STAINLESS STEEL  
6 - SERIES 6 STAINLESS STEEL  
7 - SERIES 7 BRASS MINI PRO  
8 - SERIES 8 STAINLESS STEEL - INTEGRAL STRAINER  
9 - SERIES 9 BRASS SHORT PUMP

**MOUNTING AND DRIVE CONFIGURATION**  
A - CLAMP ON WITH .189" 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)  
P - CLAMP ON WITH 1143-3 OVERSIZE BRONZE COUPLING  
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

**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 (HIGH FLOW) (330 LPH)  
125 - 125 GPH (HIGH FLOW) (375 LPH)  
140 - 140 GPH (HIGH FLOW) (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 SETTING IN PSI (POUNDS PER SQ. IN.)

**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, HI TEMP-BYPASS  
B - PLASTIC, HI TEMP-SOLID  
C - PLASTIC, HI TEMP BALANCED BYPASS  
D - PLASTIC, HI TEMP BALANCED SOLID  
F - PLASTIC, HI TEMP-EXTERNAL ADJUST BYPASS  
G - PLASTIC, HI TEMP-EXTERNAL ADJUST SOLID  
P - BRASS, HI TEMP-SOLID  
R - STAINLESS STEEL, HI TEMP-SOLID  
1 - PLASTIC, LOW TEMP-BYPASS  
2 - PLASTIC, LOW TEMP-SOLID  
3 - PLASTIC, LOW TEMP BALANCED BYPASS  
4 - PLASTIC, LOW TEMP BALANCED SOLID  
5 - PLASTIC, LOW TEMP-EXTERNAL ADJUST BYPASS  
6 - PLASTIC, LOW TEMP-EXTERNAL ADJUST SOLID  
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 / PASSIVATION / STRAINER**  
1 - CLOCKWISE  
2 - COUNTERCLOCKWISE  
3 - CLOCKWISE / SLINGER  
4 - COUNTERCLOCKWISE / SLINGER  
7 - CLOCKWISE / COARSE STRAINER  
8 - CLOCKWISE / SLINGER / COARSE STRAINER

**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

**NOTES:**

- Brass pumps are NSF listed for potable water only. Stainless steel pumps are NSF listed for potable and carbonated water. (Nitrile elastomer only.)
- Bolt on model with .25" double flat drive for use in Japan only. (No NSF available.)
- 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. No other parts are passivated.
- The EP elastomer is no longer available for Series 6 pumps.
- Neoprene elastomer not available for the following relief valve configurations: C, D, F, 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

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