

PROCON® Products

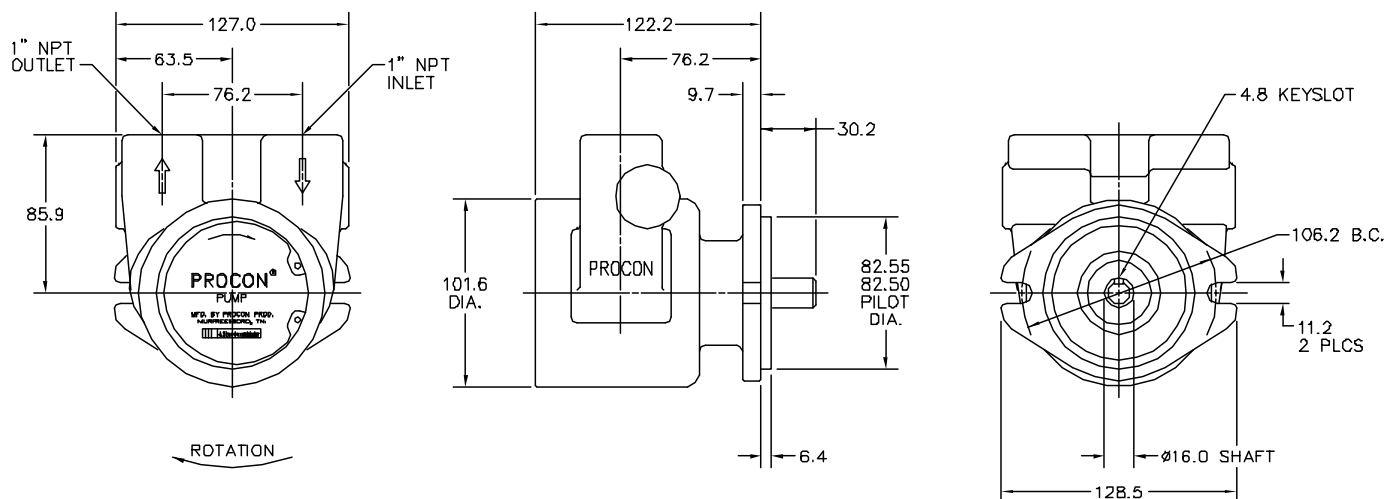
Series 6 Pump

- Positive Displacement Rotary Vane Pump
- Flow ranging from 920 to 2020 liters per hour (requires flooded inlet) at discharge up to 1750 kPa
- 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	920 to 2020 lph	Dry Weight	Approximately 6.8 kg
Nominal Speed	1400 RPM	Dimensions	122.2mm X 127.0mm X 136.7mm
Typical Horsepower Required	210 to 1420 watts	Self Priming (water)	1.8m Maximum Lift
Maximum Discharge Pressure	1750 kPa	Port Size	1" NPT Inlet and Outlet

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"QUALITY PRODUCTS – DELIVERED ON TIME"



Series 6 Nominal Volume at 1400 RPM

NOMINAL FLOW RATE (l/h)	LITERS PER HOUR					BRAKE HORSEPOWER (kW)				
	PRESSURE (k Pa)					PRESSURE (k Pa)				
	350	700	1050	1400	1750	350	700	1050	1400	1750
2020	2034	2025	2016	2006	1997	0.30	0.58	0.85	1.12	1.42
1840	1878	1868	1859	1850	1841	0.30	0.54	0.82	1.09	1.39
1650	1693	1684	1675	1666	1657	0.30	0.51	0.79	1.03	1.21
1470	1500	1491	1482	1473	1463	0.27	0.45	0.70	0.91	1.09
1280	1335	1325	1316	1307	1298	0.27	0.42	0.60	0.82	1.06
1100	1141	1132	1123	1114	1104	0.24	0.39	0.58	0.76	0.94
920	930	920	911	902	893	0.21	0.33	0.51	0.70	0.88

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	F	1	1	A	A	180
PRODUCT CLASSIFICATION											PRESSURE SETTING (RELIEF VALVE) (SEE NOTE 5)
1 - ROTARY VANE PUMP											PRESSURE SETTING IN PSI (POUNDS PER SQ. IN.)
AGENCY APPROVALS											PRESSURE RANGE (RELIEF VALVE SPRING)
0 - NON-FOOD GRADE (1.5% Max. Lead)- NO AGENCY APPROVAL											A - 151 TO 250 PSI - DEFAULT SETTING 170 PSI (SEE NOTE 4)
1 - NSF STD. 169 LISTED (1.5% Max. Lead) - (SEE NOTE 1)											10 TO 17 BAR - DEFAULT SETTING 14 BAR
2 - WRC											B - 100 TO 150 PSI - DEFAULT SETTING 130 PSI
3 - FOOD GRADE - (1.5% Max. Lead) NO AGENCY LISTING											7 TO 10 BAR - DEFAULT SETTING 10 BAR
P - SPARE PARTS KIT											C - 60 TO 99 PSI - DEFAULT SETTING 99 PSI
Z - NON-FOOD GRADE (.20% Max. Lead)- NO AGENCY APPROVAL											4 TO 7 BAR - DEFAULT SETTING 7 BAR
4 - NSF STD. 169 LISTED (.20% Max. Lead) - (SEE NOTE 1)											D - 30 TO 59 PSI - DEFAULT SETTING 50 PSI (SEE NOTE 6)
Y - NON-FOOD GRADE (.10% Max. Lead)- NO AGENCY APPROVAL											2 TO 4 BAR - DEFAULT SETTING 3.5 BAR
5 - NSF STD. 169 LISTED (.10% Max. Lead) - (SEE NOTE 1)											X - NO SETTING
W - 254 SMO (316 S/S) - NO AGENCY APPROVAL											VALVE TYPE AND CONFIGURATION
SERIES											A - PLASTIC, HI TEMP-BYPASS
1 - SERIES 1 BRASS - INTEGRAL STRAINER											B - PLASTIC, HI TEMP-SOLID
2 - SERIES 2 BRASS											C - PLASTIC, HI TEMP BALANCED BYPASS
3 - SERIES 3 STAINLESS STEEL											D - PLASTIC, HI TEMP BALANCED SOLID
4 - SERIES 4 BRASS											F - PLASTIC, HI TEMP-EXTERNAL ADJUST BYPASS
5 - SERIES 5 STAINLESS STEEL											G - PLASTIC, HI TEMP-EXTERNAL ADJUST SOLID
6 - SERIES 6 STAINLESS STEEL											P - BRASS, HI TEMP-SOLID
7 - SERIES 7 BRASS MINI PRO											R - STAINLESS STEEL, HI TEMP-SOLID
8 - SERIES 8 STAINLESS STEEL - INTEGRAL STRAINER											1 - PLASTIC, LOW TEMP-BYPASS
9 - SERIES 9 BRASS SHORT PUMP											2 - PLASTIC, LOW TEMP-SOLID
MOUNTING AND DRIVE CONFIGURATION											3 - PLASTIC, LOW TEMP BALANCED BYPASS
A - CLAMP ON WITH .188" DOUBLE FLAT DRIVE											4 - PLASTIC, LOW TEMP BALANCED SOLID
B - CLAMP ON WITH 1143 BRONZE COUPLING											5 - PLASTIC, LOW TEMP-EXTERNAL ADJUST BYPASS
C - CLAMP ON WITH 1143-2 PLASTIC COUPLING											6 - PLASTIC, LOW TEMP-EXTERNAL ADJUST SOLID
D - CLAMP ON WITH SLOTTED SHAFT ONLY - NO COUPLING											X - NO RELIEF VALVE
E - BOLT ON WITH SINGLE FLAT DRIVE (SERIES 1-5 ONLY)											CLEARANCES
J - BOLT ON WITH .25 DOUBLE FLAT DRIVE (SEE NOTE 2)											1 - STANDARD CLEARANCE
K - BOLT ON WITH 3018 BRONZE COUPLING											2 - SPCL CLEARANCE (1x) LINER & BRGS
L - BOLT ON WITH 3018-1 OVERSIZE BRONZE COUPLING											3 - SPECIAL CLEARANCE (2x) LINER & (1x) BRGS.
M - BOLT ON WITH SLOTTED SHAFT ONLY											4 - STANDARD CLEARANCE WITH SEAL CIRCULATION
N - BOLT ON WITH KEY SLOT DRIVE (SERIES 6 ONLY)											5 - SPCL CLEARANCE (1x) LINER AND (1x) SEAL CIRC. BRGS.
P - CLAMP ON WITH 1143-3 OVERSIZE BRONZE COUPLING											6 - SPCL CLEARANCE (1x) LINER AND (2x) SEAL CIRC. BRGS.
R - LONG CLAMP ON WITH DOUBLE FLAT DRIVE (SEE NOTE 11)											ROTATION / SLINGER / PASSIVATION / STRAINER
S - CLAMP ON WITH SINGLE FLAT DRIVE											1 - CLOCKWISE
T - BOLT ON WITH FAEMA STYLE MOUNT											2 - COUNTERCLOCKWISE
FLOWRATE (SEE NOTE 10)											3 - CLOCKWISE / SLINGER
SERIES 1, 2 AND 3											4 - COUNTERCLOCKWISE / SLINGER
015 - 15 GPH (45 LPH)											7 - CLOCKWISE / COARSE STRAINER
025 - 25 GPH (75 LPH)											8 - CLOCKWISE / SLINGER / COARSE STRAINER
035 - 35 GPH (100 LPH)											ELASTOMER
050 - 50 GPH (150 LPH)											F - FDA GRADE NITRILE - TYPE 21 OR TYPE 2106
060 - 60 GPH (180 LPH)											USED INTERCHANGEABLY
070 - 70 GPH (210 LPH)											G - ETHYLENE PROPYLENE - TYPE 21 SEAL (SEE NOTE 8)
080 - 80 GPH (240 LPH)											R - FLUOROCARBON - TYPE 21 SEAL
100 - 100 GPH (300 LPH)											S - NEOPRENE - TYPE 21 SEAL (SEE NOTE 9)
110 - 110 GPH (HIGH FLOW) (330 LPH)											W - ETHYLENE PROPYLENE - TYPE 21 SEAL -
125 - 125 GPH (HIGH FLOW) (375 LPH)											WRC APPROVED COMPOUND
140 - 140 GPH (HIGH FLOW) (425 LPH)											NOTES:
SERIES 4 AND 5											1. Brass pumps are NSF listed for potable water only. Stainless steel pumps are NSF listed for potable and carbonated water. (Nitrile elastomer only.)
115 - 115 GPH (350 LPH)											2. Bolt on model with .25" double flat drive for use in Japan only. (No NSF available.)
140 - 140 GPH (425 LPH)											3. Counterclockwise rotation not available for Series 1 pumps.
165 - 165 GPH (500 LPH)											4. For the Beverage Industry - the default relief valve pressure setting is 250 PSI.
190 - 190 GPH (575 LPH)											5. The relief valve pressure setting is not part of the model matrix number. It is for customer reference only.
215 - 215 GPH (650 LPH)											6. This pressure range is not available in valve configurations C, D, K or L.
240 - 240 GPH (725 LPH)											7. Passivation is defined as a passivated housing only. No other parts are passivated.
265 - 265 GPH (800 LPH)											8. The EP elastomer is no longer available for Series 6 pumps.
330 - 330 GPH (HIGH FLOW) - NO RELIEF VALVE (1000 LPH)											9. Neoprene elastomer not available for the following relief valve configurations: C, D, F, 3, 4, 5, and 6.
SERIES 6											10. GPH rating at 60HZ (1750 RPM) - LPH rating at 50HZ (1400 RPM).
300 - 300 GPH - NO RELIEF VALVE (900 LPH)											11. Long clamp on pumps are series 1 and 4 only
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)											