

PROCON® Products

Series 1, 2, & 3 Pumps

- Positive Displacement Rotary Vane Pump
- Flow ranging from 15 to 140 gallons per hour at discharge up to 250 psi
- Self Priming
- Maintenance Free
- Low Vibration and Pulsation Characteristics

Clamp-on or bolt-on available

- Stainless Steel, Brass and Low Lead Brass (0.20% Max Lead)
- Patented Relief Valve Configuration
- Models compatible with 48YZ Frame and 56C Frame Motors

(Adapter and Coupling required for 56C Frame Mounting)

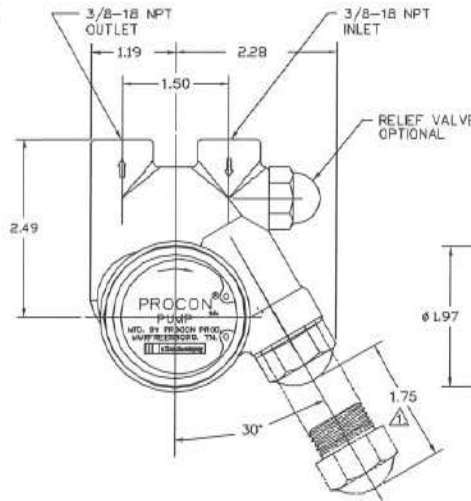
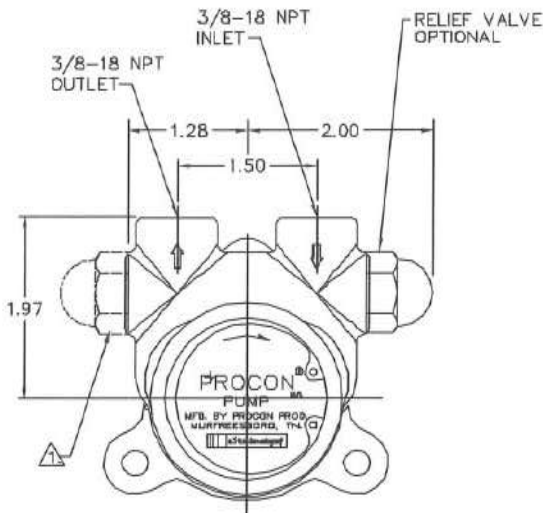


SPECIFICATIONS

| | |
|--------------------------------------|-----------------------------------|
| Body Material | Type 303 stainless steel or brass |
| Capacity | 15 to 125 GPH |
| Nominal Speed | 1725 RPM |
| Typical Horsepower Required | .25 to .50 HP |
| Maximum Discharge Pressure | 250 PSI |
| Rotation (viewed from nameplate end) | Clockwise |
| Dry Weight | Approximately 2.5 lbs. |
| Dimensions | 3.56" x 3.49" x 3.86" |
| Self Priming (water) | 6 ft. Maximum Lift |
| Port Size | 3/8 NPT Inlet and Outlet |

TYPICAL APPLICATIONS

- Carbonation
- Espresso/Coffee
- Welding
- Cold Carb Circulation
- Reverse Osmosis
- Beer Chillers
- Pesticide Systems
- Solar Applications



PROCON® Products

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"QUALITY PRODUCTS – DELIVERED ON TIME"



SERIES 1, 2 & 3 Nominal Volume at 1725 RPM (See note on Series 6)

| FLOW RATE (GPH) | GALLONS PER HOUR | | | | | BRAKE HORSEPOWER | | | | |
|--------------------|------------------|-----|-----|-----|-----|------------------|-----|-----|-----|-----|
| | PRESSURE (PSI) | | | | | PRESSURE (PSI) | | | | |
| | 50 | 100 | 150 | 200 | 250 | 50 | 100 | 150 | 200 | 250 |
| 140 | 143 | 141 | 139 | 137 | 135 | .17 | .28 | .40 | .52 | .63 |
| 125 | 128 | 126 | 124 | 122 | 120 | .16 | .26 | .36 | .47 | .57 |
| 110 | 111 | 109 | 107 | 105 | 103 | .15 | .25 | .34 | .44 | .54 |
| 100 | 102 | 100 | 98 | 96 | 94 | .13 | .20 | .28 | .35 | .42 |
| 80 | 82 | 80 | 78 | 76 | 74 | .12 | .18 | .25 | .32 | .39 |
| 70 | 72 | 70 | 68 | 66 | 64 | .11 | .17 | .24 | .30 | .37 |
| 60 | 62 | 60 | 58 | 56 | 54 | .10 | .16 | .23 | .29 | .35 |
| 50 | 52 | 50 | 48 | 46 | 44 | .09 | .15 | .21 | .27 | .33 |
| 35 | 37 | 35 | 33 | 31 | 29 | .08 | .14 | .19 | .24 | .29 |
| 25 | 27 | 25 | 23 | 21 | 19 | .07 | .12 | .17 | .22 | .27 |
| 15 | 17 | 15 | 13 | 11 | - | .06 | .10 | .15 | .19 | - |

Series 1 - 6 Rotary Vane pumps - Model Number Matrix

1 1 1 A 100 F 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 SMD (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 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)
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) |
| 350 - 350 GPH - NO RELIEF VALVE | (1050 LPH) |
| 420 - 420 GPH - NO RELIEF VALVE | (1250 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)
 19 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 9)
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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