

PROCON PRODUCTS

Standard Rotary Vane pumps - Model Number Matrix

1 1 1 A 100 F 1 1 A A 828 180

PRODUCT CLASSIFICATION

1 - ROTARY VANE PUMP

AGENCY APPROVALS

0 - NON-FOOD GRADE (.15% Max. Lead)- NO AGENCY APPROVAL
 1 - NSF STD. 169 LISTED (1.5% 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
 A - ATEX - (SEE NOTE 21)

SERIES

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

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)
 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)

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	(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)

PRESSURE SETTING (RELIEF VALVE) (SEE NOTE 5)

PRESSURE SETTING IN PSI (POUNDS PER SQ. IN.)

MOTOR NUMBER (OPTIONAL) (SEE NOTE 19)

828 - 1/3HP CARB MOTOR (EXAMPLE)

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
 2 TO 4 BAR - DEFAULT SETTING 3.5 BAR
 X - NO SETTING

VALVE TYPE AND CONFIGURATION

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

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.
 X - (SEE NOTE 20)

ROTATION / SLINGER / VANES / PINS

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)

ELASTOMER

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)
- 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, 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.
- ATEX approved must have vane pins removed and use the ATEX label with the EX symbol and additional remark "EX II 2G(i) c IIB T3 -20°C < Ta < 50° C"

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