

# DW Series

**POSITIVE DISPLACEMENT PUMPS** 







Engineering excellence, allied to stringent quality control, ensures that SPX's unrivalled range of APV products complies with the highest international standards for hygiene. In the light of growing pressure worldwide to deliver safe, high quality food, all SPX products are designed for easy cleanability, while minimizing the use of valuable resources, such as energy. The APV product portfolio includes a wide range of pumps, valves, heat exchangers, mixers and homogenizers designed for use in the food, dairy and beverage, as well as in chemical, personal care, pharmaceutical and other liquid process industries.

# **DW Series Positive Displacement Pumps**

#### **PRODUCT FEATURES AND BENEFITS**

#### **High Volumetric Efficiency**

The DW range is designed for outstanding efficiency. Internal clearances have been minimized so that a smaller pump size can be selected for medium viscosity applications. This reduces both the initial investment and running costs.

#### Ultra-Hygienic, Accommodates Harsh CIP-Cycles

All DW models are CIP/SIP cleanable. The pumps are designed to withstand rapid temperature changes and can therefore accommodate very harsh CIP-cycles.

#### **Pulse-Free Performance**

When pumping highly viscous products, the DW pump with piston rotors runs completely pulse-free. This ensures a consistent process flow, which is required in connection with filling machines. It also safeguards valves, and other equipment that can be damaged by pressure surges.

#### Low NPSH-Requirement

The highly improved suction capability of the DW pump considerably reduces the NPSH-requirement. This in combination with the absence of pressure pulsations makes the DW pumps ideal for many applications, such as ultrafiltration.

#### **Gentle Product Handling**

The rotor designs available ensure maximum product integrity and minimize risk of potential damage to sensitive products. Both piston and bi-lobe rotors are suitable for high and low viscosities. They will also handle cheese curds and whey, soft fruit and meat — which previously involved fitting special rotors.

#### **Easy Maintenance**

The easy-to-access front loaded mechanical seals reduce maintenance time considerably. All shaft seal O-rings are identical, and access to the shaft seal is achieved by simply removing the front cover and the rotors. Likewise, the timing of rotors is an equally uncomplicated operation.

#### **Low Noise Levels**

The patented rotor design practically eliminates hydraulic noise and the helical gears minimize gearbox noise.

#### **Global Design**

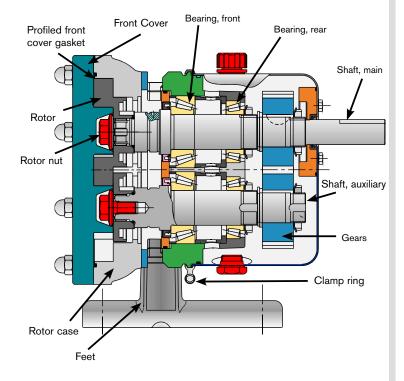
The entire range complies with the European EHEDG and the American 3-A hygiene standards.

#### **High Capacity**

The DW6 high capacity pumps are unique in the field of positive displacement pumps. They are capable of running up to 800 rpm and pumping up to 268 gal/100 revs (1,016 liters/100 revs), approximately 1,628 gal/min (370 m³/h).

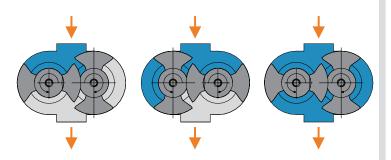
#### THEORY OF OPERATION:

DW pumps are positive-displacement, low-slip, stainless steel pumps designed with larger diameter shafts for greater strength and stiffness, mounted on a heavy-duty cast iron bearing frame (stainless steel option available) with double-tapered roller bearings.



Expanding cavities are formed at the inlet drawing the liquid into the rotors. Meshing of the rotors forces the fluid out of the pumping chamber.





# Typical product applications

#### **Beverage**

Fruit Juice
Cider and Wine
Yeast
Liquid Sugar and Glucose



#### Food

Fruit Preserves
Soups and Sauces
Baby Food
Chocolate



#### **Pharmaceutical and Toiletries**

Antibiotics Toothpaste Cough Medicine Shampoo



#### Dairy

Cream
Butter
Cheese Curd & Whey
Yogurt
Ice cream



#### Chemical

Paint
Oil Additives
Resins
Photographic Film Coatings



#### PRODUCT SPECIFICATIONS

The DW pump is designed for ultra-hygienic applications. The range consists of 26 models with capacities ranging from 0.8 gal/100 revs to 268 gal/100 revs (3 liters/100 revs to 1,016 liters /100 revs) and pressures up to 435 psi (30 bar). All product-contact parts are made from AISI 316L stainless steel and all elastomers comply with FDA-requirements.

There are two rotor types (piston and bi-lobe) available. The piston rotors can be easily changed to bi-lobe rotors without changing the rotor case. The porting on the pump can also be changed from horizontal to vertical (and vice versa) without any modification to the pump or use of a special gear case assembly.

|                 |               | MAXIMUM<br>DISPLACEMENT              | MAXIMUM<br>PRESSURE |  |  |  |  |
|-----------------|---------------|--------------------------------------|---------------------|--|--|--|--|
| MODEL<br>Number | ROTOR<br>TYPE | GAL/100 REVS<br>(LITERS/100<br>REVS) | PSI<br>(BAR)        |  |  |  |  |
| DW1/003/7.5     | Piston        | 0.8 (3)                              | 109 (7.5)           |  |  |  |  |
| DW1/004/15      | Bi-lobe       | 1.1 (4)                              | 218 (15)            |  |  |  |  |
| DW1/007/7       | Bi-lobe       | 1.8 (7)                              | 102 (7)             |  |  |  |  |
| DW2/006/10      | Piston        | 1.6 (6)                              | 145 (10)            |  |  |  |  |
| DW2/007/20      | Bi-lobe       | 1.8 (7)                              | 290 (20)            |  |  |  |  |
| DW2/013/10      | Bi-lobe       | 3.4 (13)                             | 145 (10)            |  |  |  |  |
| DW3/014/10      | Piston        | 3.7 (14)                             | 145 (10)            |  |  |  |  |
| DW3/017/20      | Bi-lobe       | 4.5 (17)                             | 290 (20)            |  |  |  |  |
| DW3/030/10      | Bi-lobe       | 7.9 (30)                             | 145 (10)            |  |  |  |  |
| DW3/050/5       | Bi-lobe       | 13.2 (50)                            | 73 (5)              |  |  |  |  |
| DW4/033/10      | Piston        | 8.7 (33)                             | 145 (10)            |  |  |  |  |
| DW4/039/20      | Bi-lobe       | 10.3 (39)                            | 290 (20)            |  |  |  |  |
| DW4/073/10      | Bi-lobe       | 19.3 (73)                            | 145 (10)            |  |  |  |  |
| DW4/125/5       | Bi-lobe       | 33.0 (125)                           | 73 (5)              |  |  |  |  |
| DW5/080/12.5    | Piston        | 21.1 (80)                            | 181 (12.5)          |  |  |  |  |
| DW5/093/25      | Bi-lobe       | 24.6 (93)                            | 363 (25)            |  |  |  |  |
| DW5/142/15      | Bi-lobe       | 37.5 (142)                           | 218 (15)            |  |  |  |  |
| DW5/256/7       | Bi-lobe       | 67.6 (256)                           | 102 (7)             |  |  |  |  |
| DW6/172/12.5    | Piston        | 45.4 (172)                           | 218 (15)            |  |  |  |  |
| DW6/198/30      | Bi-lobe       | 52.3 (198)                           | 435 (30)            |  |  |  |  |
| DW6/308/15      | Bi-lobe       | 81.4 (308)                           | 218 (15)            |  |  |  |  |
| DW6/519/07      | Bi-lobe       | 137.1 (519)                          | 102 (7)             |  |  |  |  |

The figures included in this brochure are for guidance only. Please use the DW Pump Sizing program or contact your local SPX office for sizing and help selecting a DW Pump.



Standard elastomer material is EPDM. FPM and Isolast (perfluoroelastomer) are also available.

The standard connections are S-Line. Other sanitary and industrial fittings are available.

#### **Rotor Options**

The two rotor types, which are available in three different versions, are suitable for product temperatures up to 230°F (110°C).

Multi Duty Rotors are standard rotors suitable for most applications. The clearance is greater than that of the high efficiency rotors.

**High Efficiency Rotors** are designed for low viscosity products. The size of the rotors has been increased and the clearance is minimal.

**NGA Rotors** are made of Non Galling Alloy (W88) for use with low viscosity products. The material allows the rotors to touch the pump housing without damaging the housing or the rotors. Low tolerances may therefore be applied without decreasing the reliability.

Furthermore the bi-lobe rotors can be supplied as "high temperature" rotors, suitable for product temperatures up to 356°F (180°C). The rotors are smaller for expansion due to the temperature.



Lobe Type Rotor



Piston Type Rotor

|                     | DE       | SIGN       | FEATURES                        |   |                   |   |  |  |  |  |  |  |  |
|---------------------|----------|------------|---------------------------------|---|-------------------|---|--|--|--|--|--|--|--|
| ROTOR TYPES         | MATERIAL | CLEARANCE  | MAXIMUM<br>TEMPERATURE<br>SHOCK | MAXIMUM<br>DIFFERENCE IN<br>PRESSURE (% OF<br>PUMP MAXIMUM) | FULLY<br>POSITIVE | MAXIMUM<br>DIFFERENCE IN<br>PRESSURE (% OF<br>PUMP MAXIMUM) | VULNERABILITY<br>TOWARDS<br>FOREIGN MATTER<br>BIGGER THAN<br>CLEARANCE |  |  |  |  |  |  |
| Multi Duty          | 316L     | Medium     | 130°C (266°F)                   | 110°C (230°F)   | 500 cp            | 100%  | High   |  |  |  |  |  |  |
| High Efficiency     | 316L     | Small      | 110°C (230°F)                   | 50°C (122°F)  | 300 cp            | 100%  | High   |  |  |  |  |  |  |
| High Efficiency     | NGA      | Small      | 180°C (356°F)                   | 80°C (176°F)  | 300 ср            | 100%  | Low  |  |  |  |  |  |  |
| Super Tight         | NGA      | Very Small | 180°C (356°F)                   | 80°C (176°F)  | 100 cp            | 80%   | Low  |  |  |  |  |  |  |
| High<br>Temperature | 316L     | Large      | 180°C (356°F)                   | 120°C (248°C)   | 700 cp            | 100%  | High   |  |  |  |  |  |  |
| High<br>Temperature | NGA      | Large      | 210°C (410°F)                   | 180°C (356°F)   | 700 cp            | 100%  | Low  |  |  |  |  |  |  |

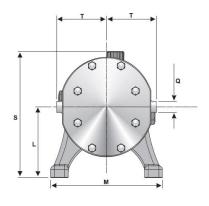
#### **Special Application Options**

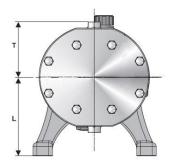
**Rectangular Inlet** for extremely high viscosity products. By applying a rectangular inlet, the inlet conditions are considerably improved.

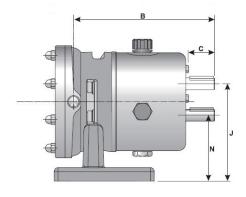
**Thermal Jacket** to provide a constant temperature level within the pump. This may be the solution for handling temperature-sensitive products such as chocolate.

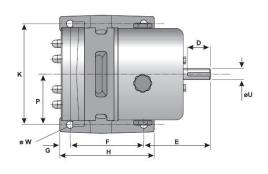
**Relief Valve** releases pressure within the pump when it becomes too high. The relief valve is needed if no other safety devices are installed.

#### PRODUCT DIMENSIONS





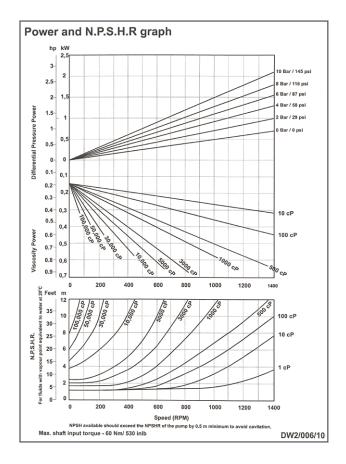


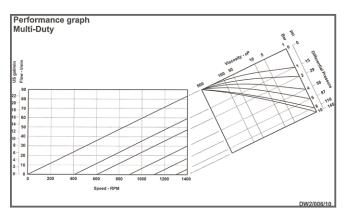


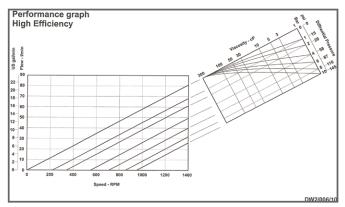
| PUMP<br>MODEL | B<br>IN<br>(MM) | C<br>IN<br>(MM) | D<br>IN<br>(MM) | E<br>IN<br>(MM) | F<br>IN<br>(MM) | G<br>IN<br>(MM) | H<br>IN<br>(MM) | J<br>IN<br>(MM) | K<br>IN<br>(MM) | L<br>IN<br>(MM) | M<br>IN<br>(MM) | N<br>IN<br>(MM) | P<br>IN<br>(MM) | Q<br>IN<br>(MM) | S<br>IN<br>(MM) | T<br>IN<br>(MM) | U<br>IN<br>(MM) | W<br>IN<br>(MM) | WEIGHT<br>LBS<br>(KG) | OIL<br>CAP.<br>GAL.<br>(L) |
|---------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------------|----------------------------|
| DW1/003/-     | 8.54<br>(217)   | 1.57<br>(40)    | 1.50<br>(38)    | 4.29<br>(109)   | 4.76<br>(121)   | 0.47<br>(12)    | 5.75<br>(146)   | 5.90<br>(150)   | 6.53<br>(166)   | 4.80<br>(122)   | 7.60<br>(193)   | 3.70<br>(94)    | 3.27<br>(83)    | DN15            | 8.58<br>(218)   | 3.38<br>(86)    | 0.71 (18)       | 0.31            | 37.48<br>(17)         | 0.21 (0.8)                 |
| DW1/004/-     | 8.54<br>(217)   | 1.57            | 1.50<br>(38)    | 4.29<br>(109)   | 4.76<br>(121)   | 0.47<br>(12)    | 5.75<br>(146)   | 5.90<br>(150)   | 6.53<br>(166)   | 4.80<br>(122)   | 7.60<br>(193)   | 3.70<br>(94)    | 3.27<br>(83)    | DN15            | 8.58<br>(218)   | 3.38<br>(86)    | 0.71 (18)       | 0.31 (8)        | 37.48<br>(17)         | 0.21 (0.8)                 |
| DW1/007/-     | 8.74<br>(222)   | 1.57            | 1.50<br>(38)    | 4.29<br>(109)   | 4.76<br>(121)   | 0.47<br>(12)    | 5.75<br>(146)   | 5.90<br>(150)   | 6.53<br>(166)   | 4.80<br>(122)   | 7.60<br>(193)   | 3.70<br>(94)    | 3.27<br>(83)    | 1<br>(25)       | 8.58<br>(218)   | 3.38<br>(86)    | 0.71<br>(18)    | 0.31            | 39.68<br>(18)         | 0.21 (0.8)                 |
| DW2/006/-     | 9.76<br>(248)   | 1.97<br>(50)    | 1.42<br>(36)    | 4.72<br>(120)   | 5.59<br>(142)   | 0.67<br>(17)    | 6.93<br>(176)   | 7.01<br>(178)   | 7.64<br>(194)   | 5.71<br>(145)   | 8.98<br>(228)   | 4.41<br>(112)   | 3.82<br>(97)    | 1<br>(25)       | 9.92<br>(252)   | 3.86<br>(98)    | 0.87<br>(22)    | 0.47 (12)       | 55.11<br>(25)         | 0.34 (1.3)                 |
| DW2/007/-     | 9.76<br>(248)   | 1.97<br>(50)    | 1.42<br>(36)    | 4.72<br>(120)   | 5.59<br>(142)   | 0.67<br>(17)    | 6.93<br>(176)   | 7.01<br>(178)   | 7.64<br>(194)   | 5.71<br>(145)   | 8.98<br>(228)   | 4.41<br>(112)   | 3.82<br>(97)    | 1<br>(25)       | 9.92<br>(252)   | 3.86<br>(98)    | 0.87<br>(22)    | 0.47<br>(12)    | 55.11<br>(25)         | 0.34<br>(1.3)              |
| DW2/013/-     | 9.92<br>(252)   | 1.97<br>(50)    | 1.42<br>(36)    | 4.72<br>(120)   | 5.59<br>(142)   | 0.67<br>(17)    | 6.93<br>(176)   | 7.01<br>(178)   | 7.64<br>(194)   | 5.71<br>(145)   | 8.98<br>(228)   | 4.41<br>(112)   | 3.82<br>(97)    | 1.5<br>(38)     | 9.92<br>(252)   | 3.86<br>(98)    | 0.87<br>(22)    | 0.47<br>(12)    | 59.52<br>(27)         | 0.34<br>(1.3)              |
| DW3/014/-     | 10.67<br>(271)  | 2.36<br>(60)    | 1.57<br>(40)    | 4.84<br>(123)   | 6.30<br>(160)   | 0.79<br>(20)    | 7.87<br>(200)   | 7.72<br>(196)   | 8.35<br>(212)   | 6.22<br>(158)   | 9.92<br>(252)   | 4.72<br>(120)   | 4.17<br>(106)   | 1.5<br>(38)     | 10.75<br>(273)  | 4.41<br>(112)   | 0.98<br>(25)    | 0.51<br>(13)    | 74.96<br>(34)         | 0.37                       |
| DW3/017/-     | 10.67           | 2.36<br>(60)    | 1.57            | 4.84<br>(123)   | 6.30<br>(160)   | 0.79<br>(20)    | 7.87<br>(200)   | 7.72<br>(196)   | 8.35<br>(212)   | 6.22<br>(158)   | 9.92<br>(252)   | 4.72<br>(120)   | 4.17<br>(106)   | 1.5 (38)        | 10.75<br>(273)  | 4.41<br>(112)   | 0.98<br>(25)    | 0.51<br>(13)    | 74.96<br>(34)         | 0.37                       |
| DW3/030/-     | 11.02<br>(280)  | 2.36<br>(60)    | 1.57            | 4.84<br>(123)   | 6.30<br>(160)   | 0.79<br>(20)    | 7.87<br>(200)   | 7.72<br>(196)   | 8.35<br>(212)   | 6.22<br>(158)   | 9.92<br>(252)   | 4.72<br>(120)   | 4.17<br>(106)   | 2<br>(51)       | 10.75<br>(273)  | 4.41<br>(112)   | 0.98<br>(25)    | 0.51<br>(13)    | 88.18<br>(40)         | 0.37                       |
| DW3/050/-     | 11.97<br>(304)  | 2.36<br>(60)    | 1.57            | 4.84<br>(123)   | 6.30<br>(160)   | 0.79<br>(20)    | 7.87<br>(200)   | 7.72<br>(196)   | 8.35<br>(212)   | 6.22<br>(158)   | 9.92<br>(252)   | 4.72<br>(120)   | 4.17<br>(106)   | 2<br>(51)       | 10.75<br>(273)  | 4.41<br>(112)   | 0.98<br>(25)    | 0.51<br>(13)    | 99.21<br>(45)         | 0.37                       |
| DW4/033/-     | 13.86<br>(352)  | 3.15<br>(80)    | 1.77<br>(45)    | 6.38<br>(162)   | 8.07<br>(205)   | 0.79<br>(20)    | 9.64<br>(245)   | 9.37<br>(238)   | 10.24 (260)     | 7.48<br>(190)   | 11.81<br>(300)  | 5.59<br>(142)   | 5.12<br>(130)   | 2<br>(51)       | 12.91<br>(328)  | 5.12<br>(130)   | 1.38<br>(35)    | 0.55<br>(14)    | 141.09<br>(64)        | 0.79                       |
| DW4/039/-     | 13.86<br>(352)  | 3.15<br>(80)    | 1.77<br>(45)    | 6.38<br>(162)   | 8.07<br>(205)   | 0.79<br>(20)    | 9.64<br>(245)   | 9.37<br>(238)   | 10.24 (260)     | 7.48<br>(190)   | 11.81<br>(300)  | 5.59<br>(142)   | 5.12<br>(130)   | 2<br>(51)       | 12.91<br>(328)  | 5.12<br>(130)   | 1.38<br>(35)    | 0.55<br>(14)    | 141.09<br>(64)        | 0.79                       |
| DW4/073/-     | 14.37<br>(365)  | 3.15<br>(80)    | 1.77<br>(45)    | 6.38<br>(162)   | 8.07<br>(205)   | 0.79<br>(20)    | 9.64<br>(245)   | 9.37<br>(238)   | 10.24<br>(260)  | 7.48<br>(190)   | 11.81<br>(300)  | 5.59<br>(142)   | 5.12<br>(130)   | 3<br>(76)       | 12.91<br>(328)  | 5.12<br>(130)   | 1.38<br>(35)    | 0.55<br>(14)    | 158.73<br>(72)        | 0.79                       |
| DW4/125/-     | 15.71<br>(399)  | 3.15<br>(80)    | 1.77<br>(45)    | 6.38<br>(162)   | 8.07<br>(205)   | 0.79<br>(20)    | 9.64<br>(245)   | 9.37<br>(238)   | 10.24 (260)     | 7.48<br>(190)   | 11.81 (300)     | 5.59<br>(142)   | 5.12<br>(130)   | 3<br>(76)       | 12.91<br>(328)  | 5.12<br>(130)   | 1.38 (35)       | 0.55<br>(14)    | 187.39<br>(85)        | 0.79                       |
| DW5/080/-     | 18.86<br>(479)  | 4.17<br>(106)   | 2.79<br>(71)    | 9.13<br>(232)   | 10.31<br>(262)  | 0.98<br>(25)    | 12.28<br>(312)  | 11.93<br>(303)  | 12.83<br>(326)  | 9.45<br>(240)   | 14.57<br>(370)  | 6.97<br>(177)   | 6.42<br>(163)   | 2.5<br>(63)     | 17.09<br>(434)  | 6.50<br>(165)   | 1.65<br>(42)    | 0.67<br>(17)    | 332.90<br>(151)       | 1.85<br>(7)                |
| DW5/093/-     | 18.86<br>(479)  | 4.17<br>(106)   | 2.79<br>(71)    | 9.13<br>(232)   | 10.31 (262)     | 0.98<br>(25)    | 12.28<br>(312)  | 11.93<br>(303)  | 12.83<br>(326)  | 9.45<br>(240)   | 14.57<br>(370)  | 6.97<br>(177)   | 6.42<br>(163)   | 2.5<br>(63)     | 17.09<br>(434)  | 6.50<br>(165)   | 1.65<br>(42)    | 0.67<br>(17)    | 332.90<br>(151)       | 1.85<br>(7)                |
| DW5/142/-     | 19.49<br>(495)  | 4.17<br>(106)   | 2.79<br>(71)    | 9.13<br>(232)   | 10.31<br>(262)  | 0.98<br>(25)    | 12.28<br>(312)  | 11.93<br>(303)  | 12.83<br>(326)  | 9.45<br>(240)   | 14.57<br>(370)  | 6.97<br>(177)   | 6.42<br>(163)   | 3<br>(76)       | 17.09<br>(434)  | 6.50<br>(165)   | 1.65<br>(42)    | 0.67<br>(17)    | 337.30<br>(153)       | 1.85                       |
| DW5/256/-     | 20.47<br>(520)  | 4.17<br>(106)   | 2.79<br>(71)    | 9.13<br>(232)   | 10.31 (262)     | 0.98<br>(25)    | 12.28<br>(312)  | 11.93<br>(303)  | 12.83<br>(326)  | 9.45<br>(240)   | 14.57<br>(370)  | 6.97<br>(177)   | 6.42<br>(163)   | DN<br>125       | 17.09<br>(434)  | 6.50<br>(165)   | 1.65<br>(42)    | 0.67<br>(17)    | 379.19<br>(172)       | 1.85<br>(7)                |
| DW6/172/-     | 27.24<br>(692)  | 3.86<br>(98)    | 3.54<br>(90)    | 13.82<br>(351)  | 16.53<br>(420)  | 1.57            | 19.68<br>(500)  | 14.80<br>(376)  | 19.33<br>(491)  | 11.53<br>(293)  | 21.30<br>(541)  | 8.19<br>(208)   | 9.64<br>(245)   | 3<br>(76)       | 20.79<br>(528)  | 8.58<br>(218)   | 1.97<br>(50)    | 0.94<br>(24)    | 815.71<br>(370)       | 6.60<br>(25)               |
| DW6/198/-     | 27.24<br>(692)  | 3.86<br>(98)    | 3.54<br>(90)    | 13.82<br>(351)  | 16.53<br>(420)  | 1.57<br>(40)    | 19.68<br>(500)  | 14.80<br>(376)  | 19.33<br>(491)  | 11.53<br>(293)  | 21.30<br>(541)  | 8.19<br>(208)   | 9.64<br>(245)   | 3<br>(76)       | 20.79<br>(528)  | 8.58<br>(218)   | 1.97<br>(50)    | 0.94<br>(24)    | 815.71<br>(370)       | 6.60<br>(25)               |
| DW6/308/-     | 27.80<br>(706)  | 3.86<br>(98)    | 3.54<br>(90)    | 13.82<br>(351)  | 16.53<br>(420)  | 1.57            | 19.68<br>(500)  | 14.80<br>(376)  | 19.33<br>(491)  | 11.53<br>(293)  | 21.30<br>(541)  | 8.19<br>(208)   | 9.64<br>(245)   | 4<br>(102)      | 20.79<br>(528)  | 8.58<br>(218)   | 1.97<br>(50)    | 0.94<br>(24)    | 859.80<br>(390)       | 6.60<br>(25)               |
| DW6/519/-     | 28.82<br>(732)  | 3.86<br>(98)    | 3.54<br>(90)    | 13.82<br>(351)  | 16.53<br>(420)  | 1.57<br>(40)    | 19.68<br>(500)  | 14.80<br>(376)  | 19.33<br>(491)  | 11.53<br>(293)  | 21.30<br>(541)  | 8.19<br>(208)   | 9.64<br>(245)   | DN<br>150       | 20.79<br>(528)  | 8.46<br>(215)   | 1.97<br>(50)    | 0.94<br>(24)    | 1014.12<br>(460)      | 6.60<br>(25)               |

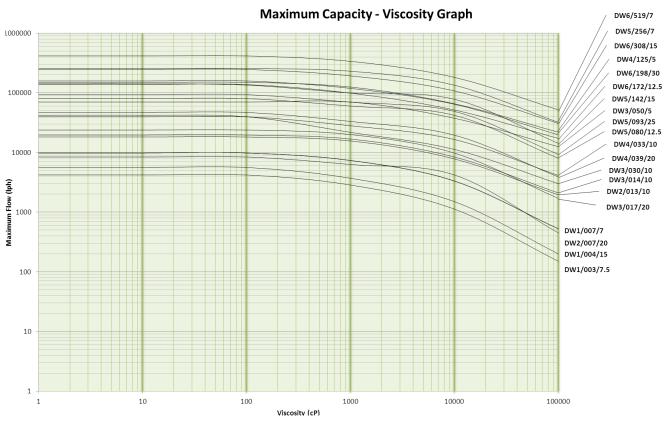
#### **ADDITIONAL TECHNICAL DATA**

### Typical Pump Curves - for DW2/006/10 Model









## **DW Series**

**POSITIVE DISPLACEMENT PUMPS** 



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