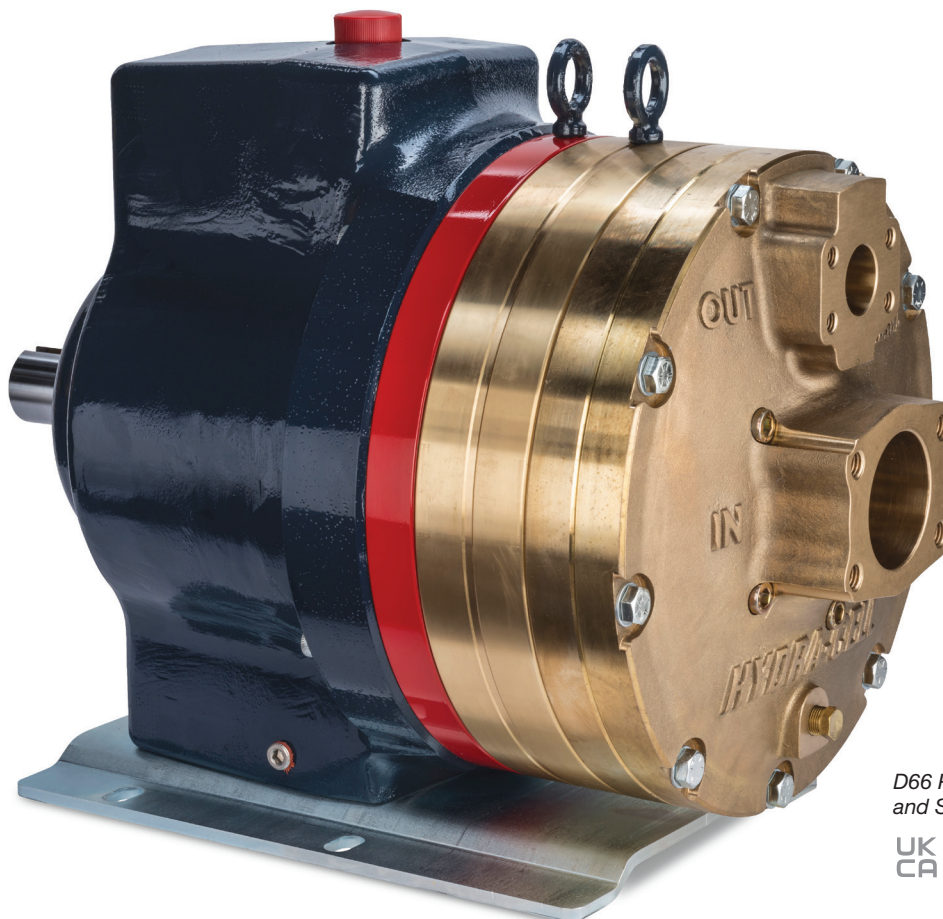


# D66 PRO SERIES

Maximum Flow Rate: 62.5 gpm (236.6 l/min) 2142 BPD  
Maximum Pressure: 1000 psi (69 bar) for Metallic Pump Head  
250 psi (17 bar) for Non-metallic Pump Heads

**WANNER™** HYDRA-CELL® PRO  
SEAL-LESS PUMP TECHNOLOGIES



*D66 Pro with brass pump head and SAE flanged ports.*

UK  
CA CE

## Versatile, reliable pumps for a wide range of applications.

- Pumps the full spectrum of low-to-high viscosity fluids.
- Features a seal-less design and horizontal disk check valves that enable the pump to handle abrasives and particulates that might damage or destroy other types of pumps.
- Simple, compact design reduces initial investment and lowers maintenance costs.
- Operational efficiencies reduce energy costs.
- Able to run dry without damage (or additional maintenance) to the pump in case of accident or operator error.
- Tolerates non-ideal operating conditions.
- Minimizes maintenance and downtime because there are no mechanical or dynamic seals, packing, or cups to leak, wear, or replace.

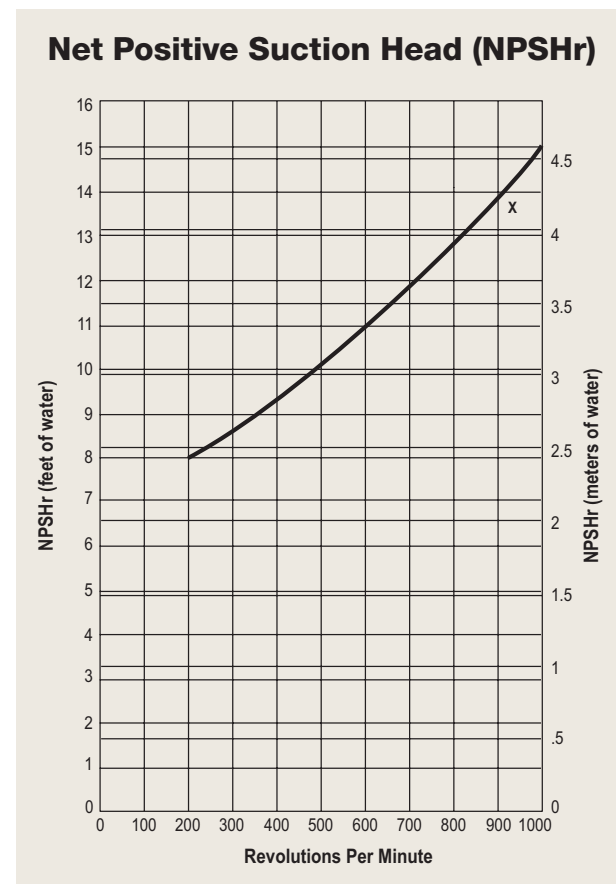
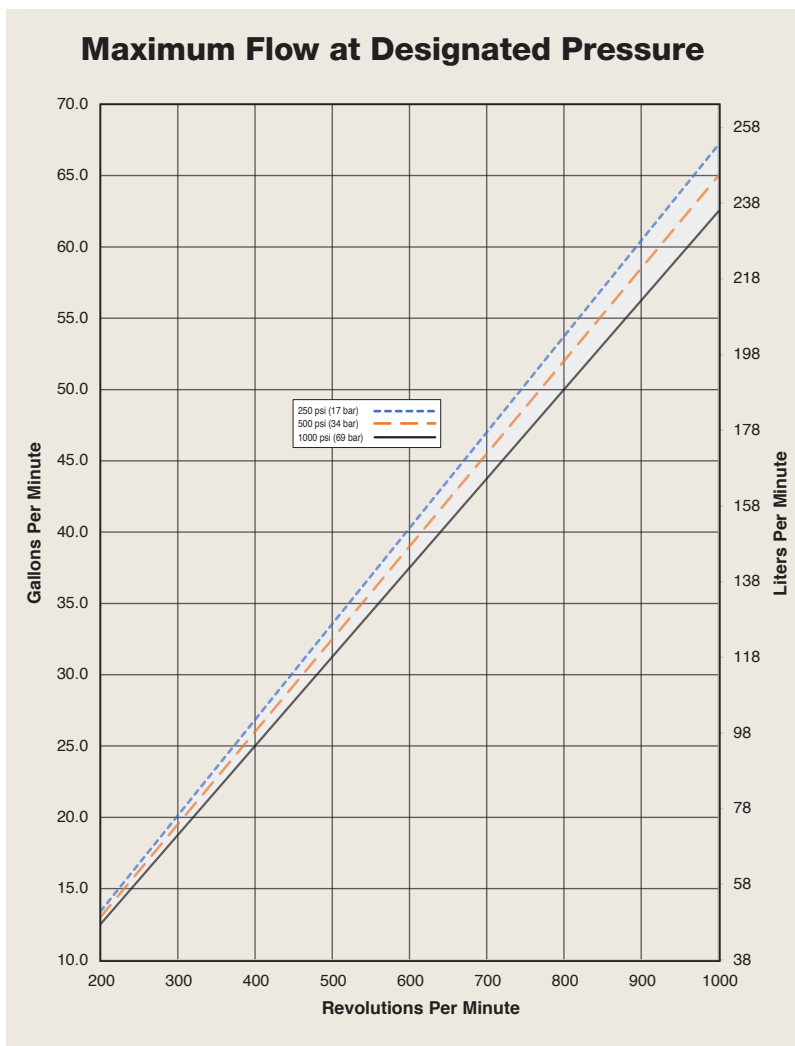
**WANNER™**

# D66 Pro Series | Performance

## Capacities

Model	Max. Input rpm    gpm		Max. Flow Capacities @1000 psi (69 bar) l/min    BPD		Max. Inlet Pressure				Max. Discharge Pressure			
					Metallic Heads		Non-Metallic Heads		Metallic Heads		Non-Metallic Heads	
	rpm	gpm	l/min	BPD	psi	bar	psi	bar	psi	bar	psi	bar
D66-X	1000	62.5	236.6	2142	250	17	50	3.4	1000	69	250	17

Performance and specification ratings apply to D66 configurations unless specifically noted otherwise.



### Suction Lift

Each Hydra-Cell pump has different lift capability depending on model size, cam angle, speed, and fluid characteristics. To ensure that your specific lift characteristics are met, refer to the inlet calculations regarding friction, and acceleration head losses in your Hydra-Cell Product Manual. Compare those calculations to the NPSHr curves above.

Due to the Wanner Engineering Continuous Improvement Program, specifications and other data are subject to change.

# D66 Pro Series | Specifications

## Flow Capacities @ 250 psi (17 bar)

Model	rpm	gpm	l/min	BPD
D66-X (Non-metallic)	1000	66.9	253.2	2293

## Flow Capacities @ 500 psi (34 bar)

Model	rpm	gpm	l/min	BPD
D66-X (Metallic)	1000	65.0	246.1	2228

## Flow Capacities @ 1000 psi (69 bar)

Model	rpm	gpm	l/min	BPD
66-X (Metallic)	1000	62.5	236.6	2142

## Delivery @ 250 psi (17 bar)

Model	gal/rev	liters/rev
D66-X (Non-metallic)	0.0669	0.253

## Delivery @ 500 psi (34 bar)

Model	gal/rev	liters/rev
D66-X (Metallic)	0.0650	0.246

## Delivery @ 1000 psi (69 bar)

Model	gal/rev	liters/rev
D66-X (Metallic)	0.0625	0.237

## Maximum Discharge Pressure

Metallic Heads:	1000 psi (69 bar)
Non-metallic Heads:	250 psi (17 bar)

## Maximum Inlet Pressure

Metallic Heads:	250 psi (17 bar)
Non-metallic Heads:	50 psi (3.4 bar)

## Maximum Operating Temperature

Metallic Heads:	200°F (93.3°C) Consult factory for correct component selection for temperatures from 160°F (71°C) to 200°F (93.3°C).
Non-metallic Heads:	120°F (49°C) Consult factory for temperatures above 120°F (49°C).

## Maximum Solids Size

800 microns

## Inlet Port

3 inch NPT (Metallic)  
2-1/2 inch SAE J518 Flange (Non-metallic)  
3 inch SAE J518 Flange (Metallic)

## Discharge Port

1-1/2 inch NPT  
1-1/2 inch SAE

## Shaft Diameter

2 inch (50.8 mm)

## Shaft Rotation

Reverse (bi-directional)

## Bearings

Tapered roller bearings

## Oil Capacity

11 US quarts (10.4 liters)

## Weight

Metallic Heads:	400 lbs. (181 kg)
Non-metallic Heads:	275 lbs. (125 kg)

## Calculating Required Power

$$\frac{100 \times \text{rpm}}{63,000} + \frac{\text{gpm} \times \text{psi}}{1,460} = \text{electric motor hp}$$

$$\frac{100 \times \text{rpm}}{84,428} + \frac{\text{l/min} \times \text{bar}}{511} = \text{electric motor kW}$$

### Attention!

When using a variable frequency drive (VFD) controller, calculate the hp or kW at minimum and maximum pump speed to ensure the correct hp or kW motor is selected. Note that motor manufacturers typically de-rate the service factor to 1.0 when operating with a VFD.

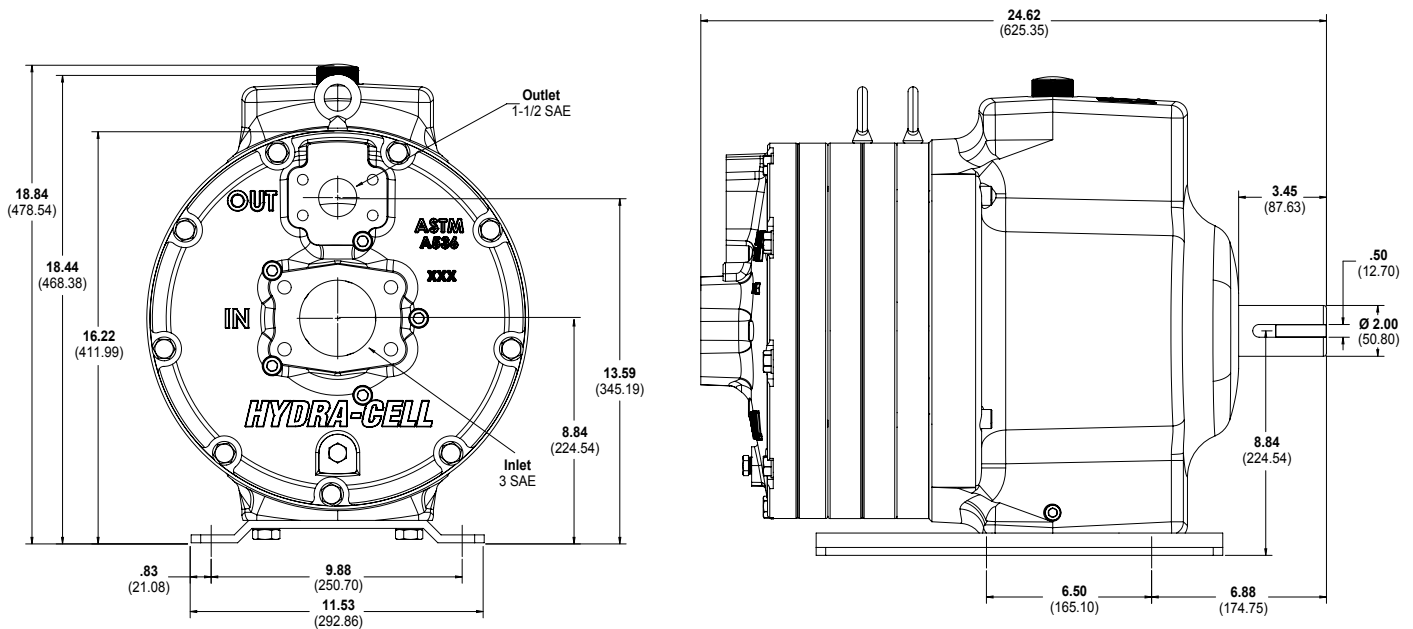
## Calculating Pulley Size

$$\frac{\text{motor pulley OD}}{\text{pump rpm}} = \frac{\text{pump pulley OD}}{\text{motor rpm}}$$

Due to the Wanner Engineering Continuous Improvement Program, specifications and other data are subject to change.

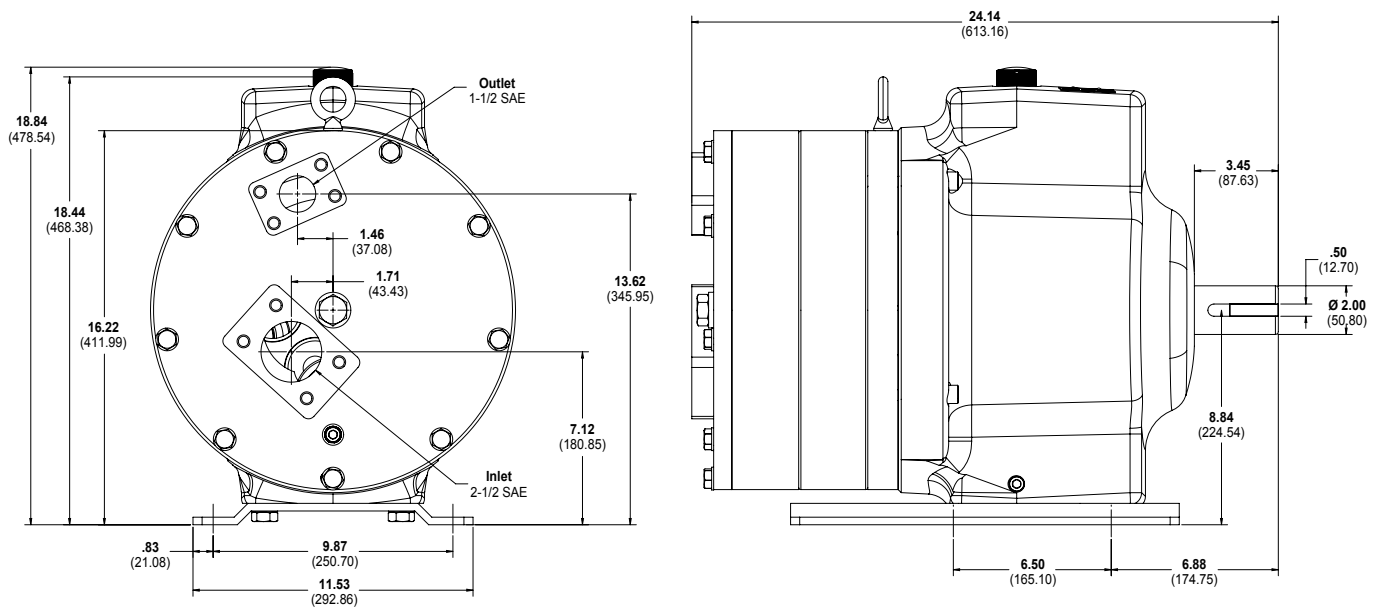
# D66 Pro Series | Representative Drawings

## D66 Models with SAE Flange Inlet/Outlet Ports Inches (mm)



*Metallic pump head models shown.*

## D66 Models with SAE Flange Inlet/Outlet Ports Inches (mm)

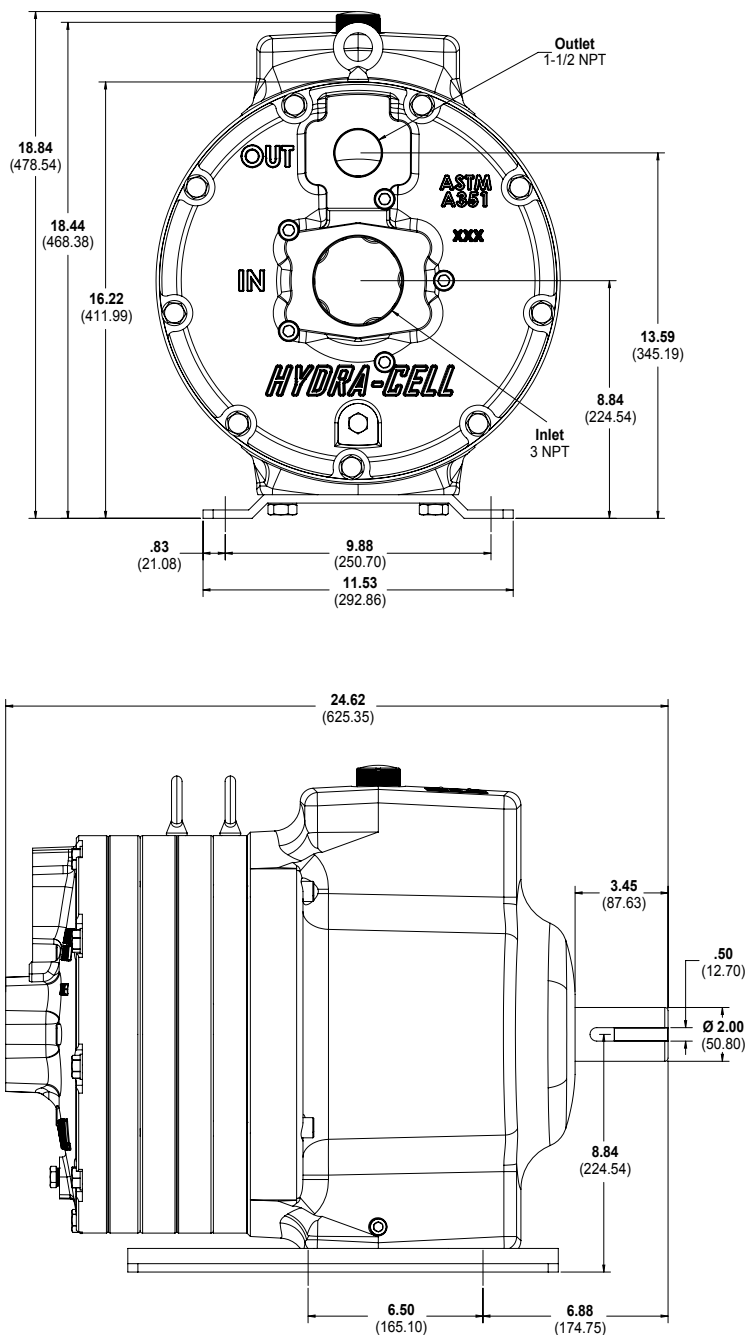


*Non-metallic pump head models shown.*

**Note:** Dimensions are for reference only. Contact factory for certified drawings.

# D66 Pro Series | Representative Drawings

## D66 Models with NPT Flange Inlet/Outlet Ports Inches (mm)



*Metallic pump head models shown.*

**Note:** Dimensions are for reference only. Contact factory for certified drawings.

# D66 Pro Series | How to Order

## Ordering Information

A complete D66 Pro Series Model Number contains 12 digits including 8 customer-specified design and materials options, for example: D66XKSGHFMMH.

1	2	3	4	5	6	7	8	9	10	11	12
D	6	6	X								

Digit	Order Code	Description
<b>1-3</b>	D66	<b>Pump Configuration</b> Shaft-driven
<b>4</b>	X	<b>Hydraulic End Cam</b> Max. 62.5 gpm (236.6 l/min) 2142 BPD @ 1000 rpm
<b>5</b>	P E	<b>Pump Head Version</b> Hydra-Cell Pro Hydra-Cell Pro SAE Flanges
<b>6</b>	B C G N P S	<b>Pump Head Material</b> Brass Ductile Iron (Nickel-plated) Duplex Alloy 2205 Stainless Steel (with Hastelloy C followers & follower screws) Polypropylene (with Hastelloy C followers and follower screws) - SAE only Polypropylene (with Hastelloy C followers and follower screws) - SAE only 316L Stainless Steel
<b>7</b>	E R G H T U	<b>Diaphragm &amp; O-ring Material</b> EPDM (used with metallic heads only) EPDM (used with non-metallic heads only) FKM (used with metallic heads only) FKM (used with non-metallic heads only) Buna-N (used with metallic heads only) Buna-N (used with non-metallic heads only)
<b>8</b>	H N T	<b>Valve Seat Material</b> 17-4 Stainless Steel Nitronic 50 Hastelloy C
<b>9</b>	F N T	<b>Valve Material</b> 17-4 Stainless Steel Nitronic 50 Hastelloy C

Digit	Order Code	Description
<b>10</b>	E F T	<b>Valve Springs</b> Elgiloy 17-4 Stainless Steel Hastelloy C
<b>11</b>	T M	<b>Valve Spring Retainers</b> Celcon PVDF
<b>12</b>	C H	<b>Hydra-Oil</b> EPDM-compatible oil 15W50 high-temp severe-duty synthetic oil



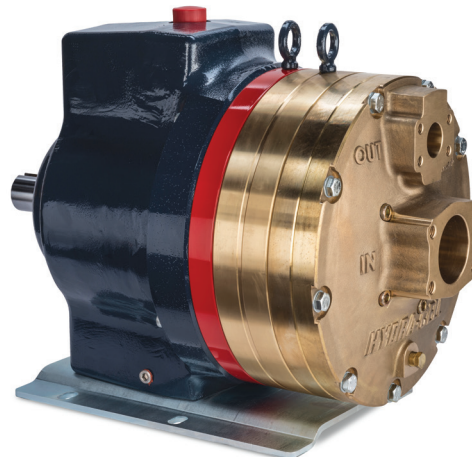
# D66 Pro Series | Options

## Consult the Hydra-Cell Master Catalog for:

- Motors, bases, couplings and other pump accessories
- Hydra-Oil selection and specification information
- Design considerations, installation guidelines, and other technical assistance in pump selection



*D66 Pro with Brass pump head and threaded ports.*



*D66 Pro with Brass pump head and SAE flanged ports*

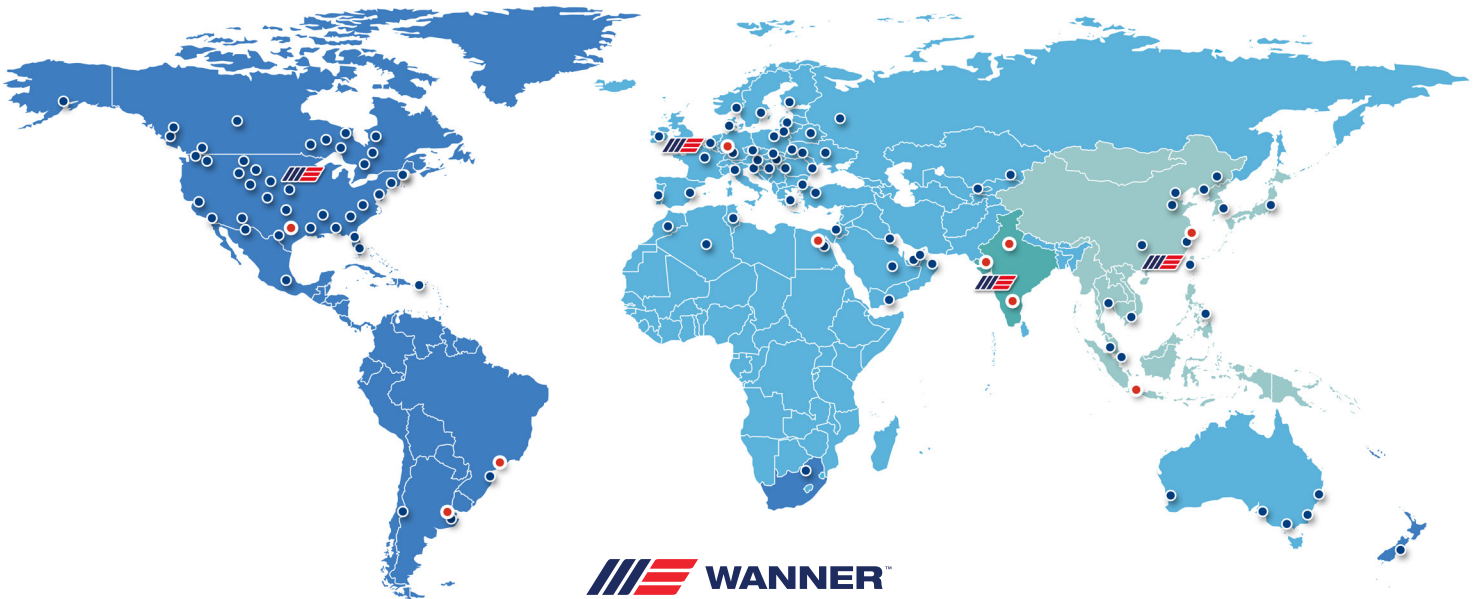


*D66 Pro with Stainless Steel pump head*



*D66 Pro with Polypropylene pump head*

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t: 612-332-5681  
e: sales@wannereng.com  
Hydra-Cell.com

### REGIONAL OFFICE

Wichita Falls, Texas USA  
t: 940-322-7111  
e: sales@wannereng.com

### LATIN AMERICAN OFFICE

São Paulo, Brazil  
t: +55 (11) 99582-1969  
e: mmagoni@wannereng.com  
Hydra-Cell-Pumps.com.br

### WANNER INTERNATIONAL, LTD.

UNITED KINGDOM

8 & 9 Fleet Business Park  
Sandy Lane • Church Crookham  
Hampshire UK GU52 8BF

t: +44 (0) 1252 816847  
e: support@wannerint.com  
Hydra-Cell.co.uk

### WANNER PUMPS, LTD.

Kowloon, HONG KONG

t: +852 3428 6534  
e: sales@wannerpumps.com  
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t: +86-21-6876 3700  
e: sales@wannerpumps.com  
WannerPumps.com

### WANNER INDIA PVT. LTD.

Mumbai, INDIA

t: +91 (22) 22044766  
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