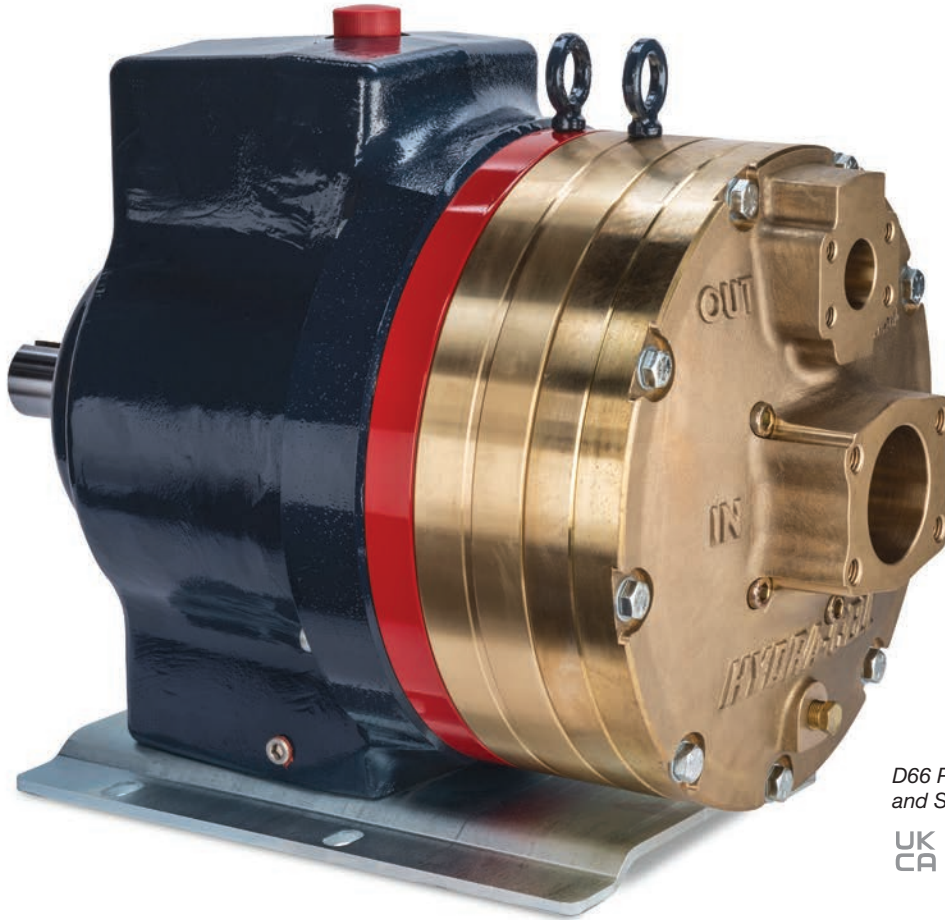


D66 PRO SERIES

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.

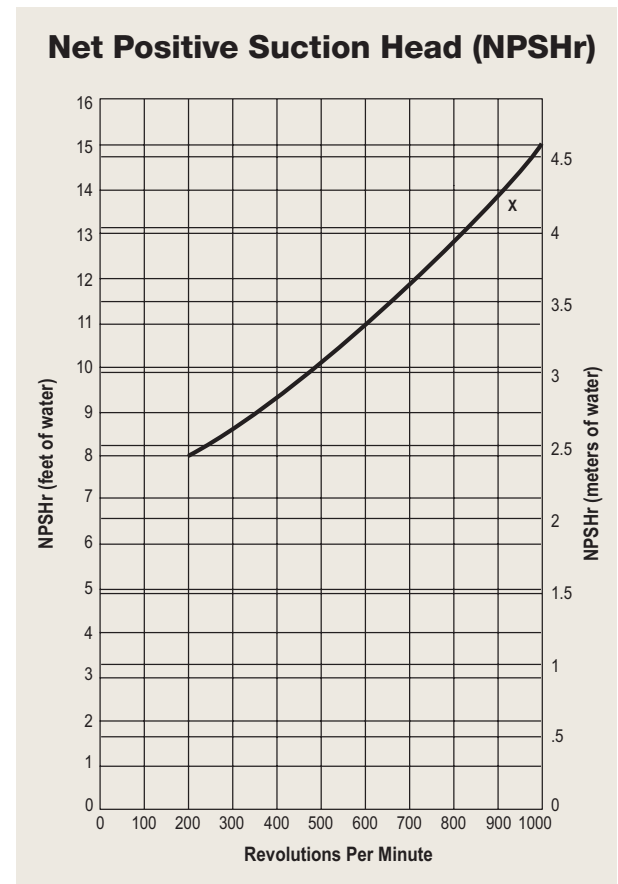
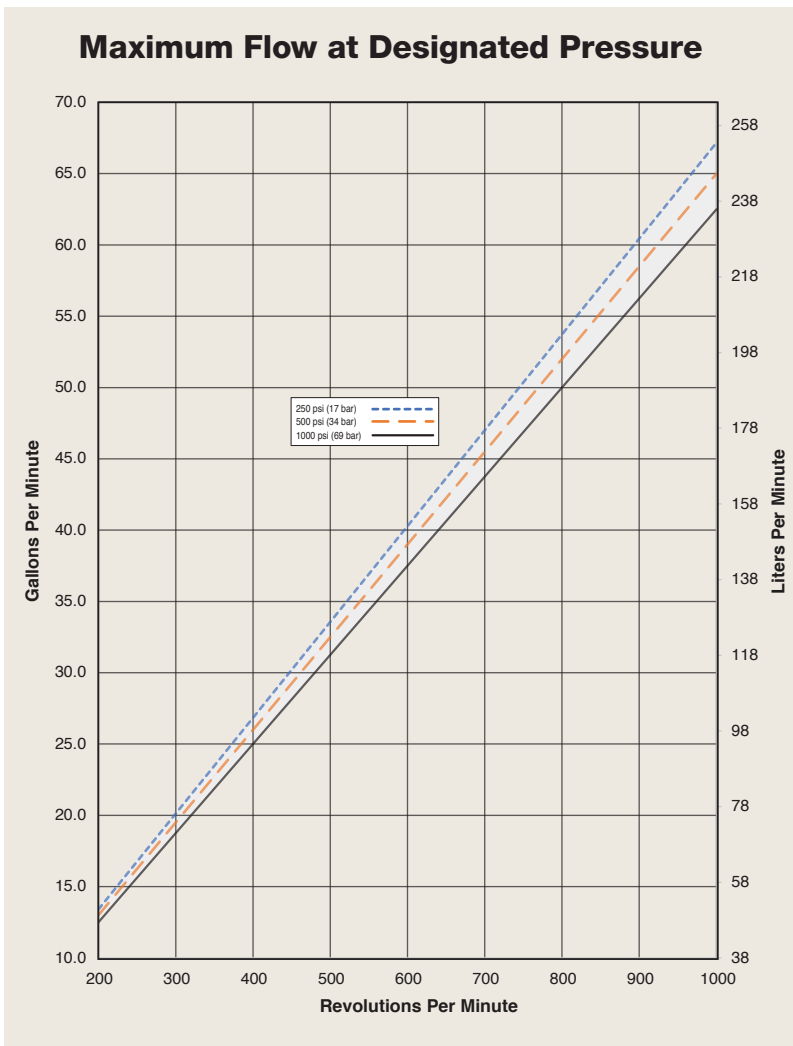
WANNER™

D66 Pro Series | Performance

Capacities

Model	Max. Input		Max. Flow Capacities @1000 psi (69 bar)		Max. Inlet Pressure				Max. Discharge Pressure			
	rpm	gpm	l/min	BPD	Metallic Heads		Non-Metallic Heads		Metallic Heads		Non-Metallic Heads	
					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.

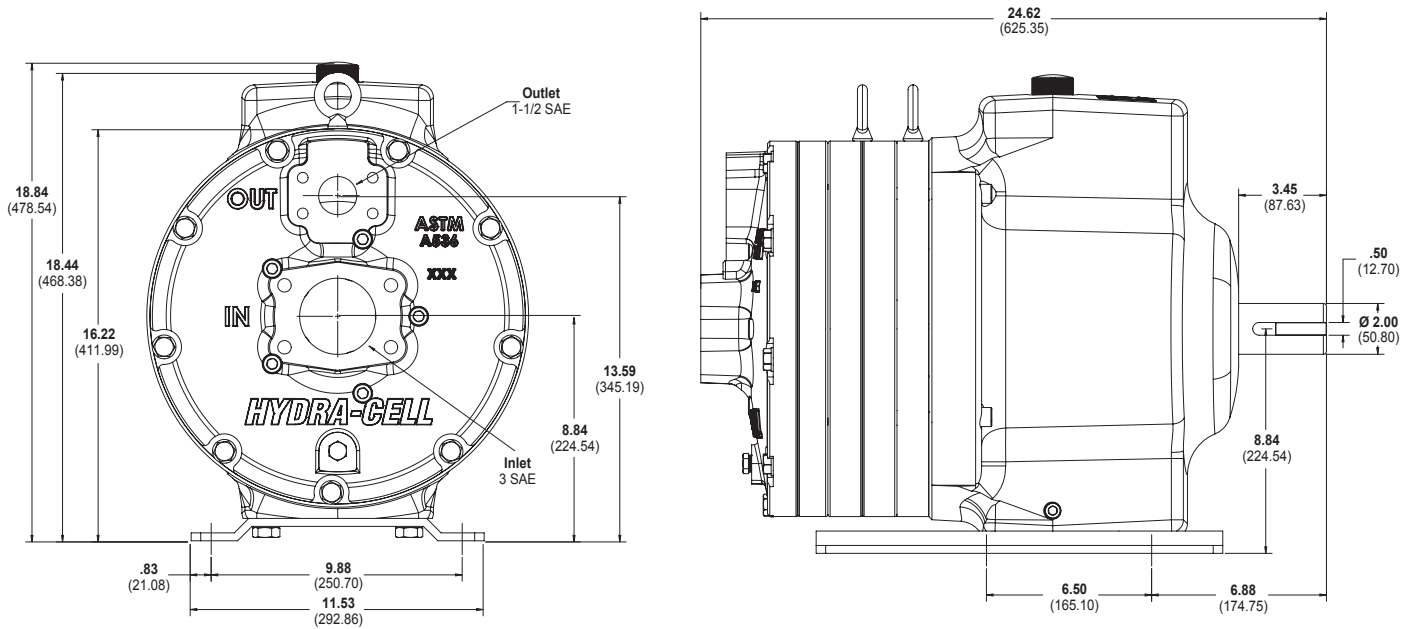
Calculating Pulley Size

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

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

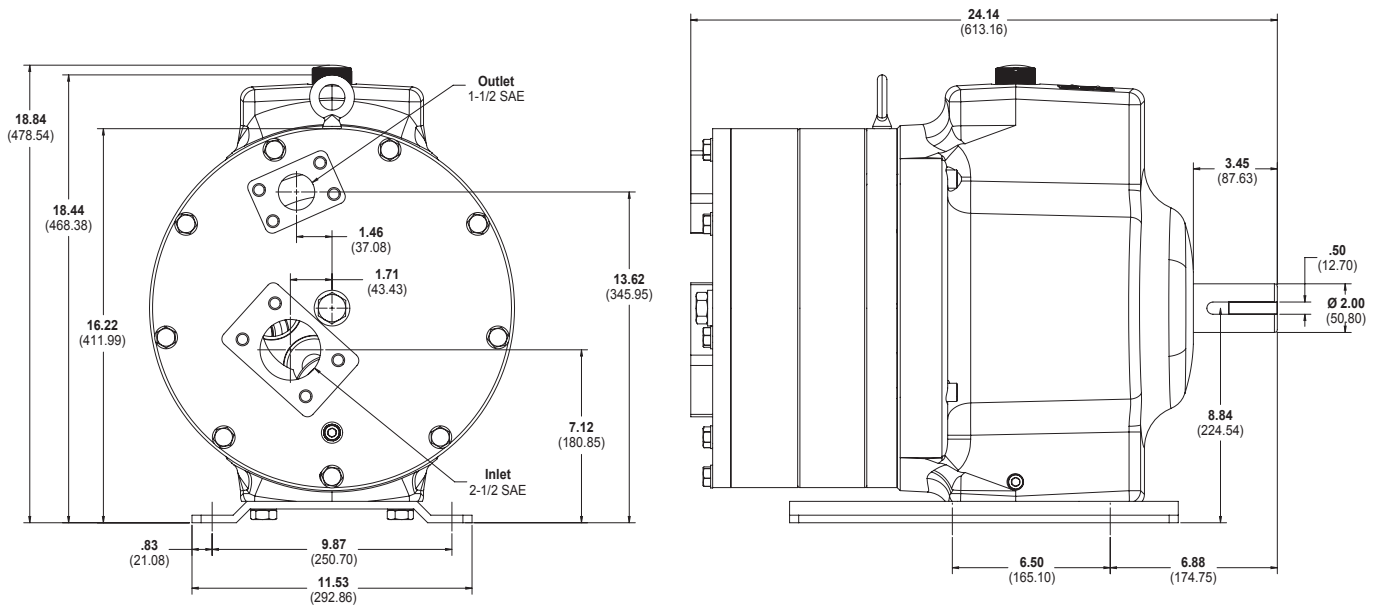
D66 Pro Series | Representative Drawings

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)

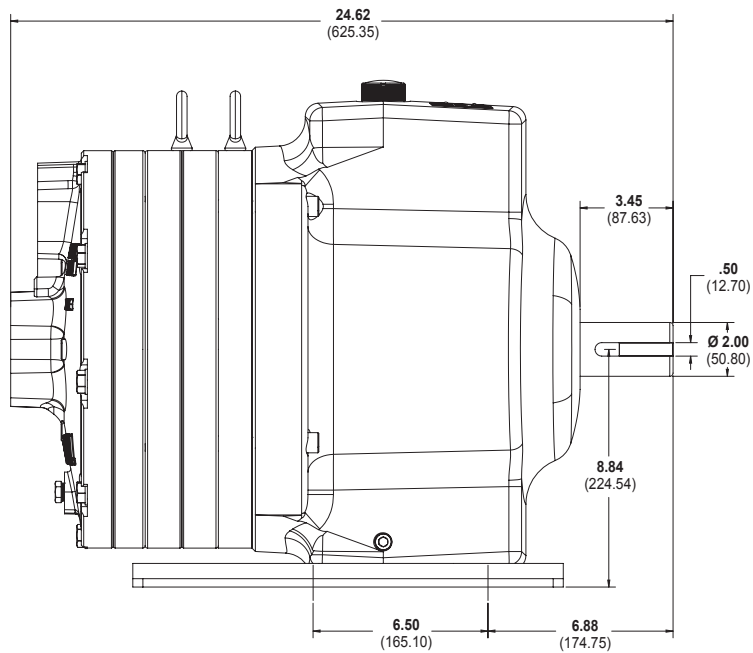
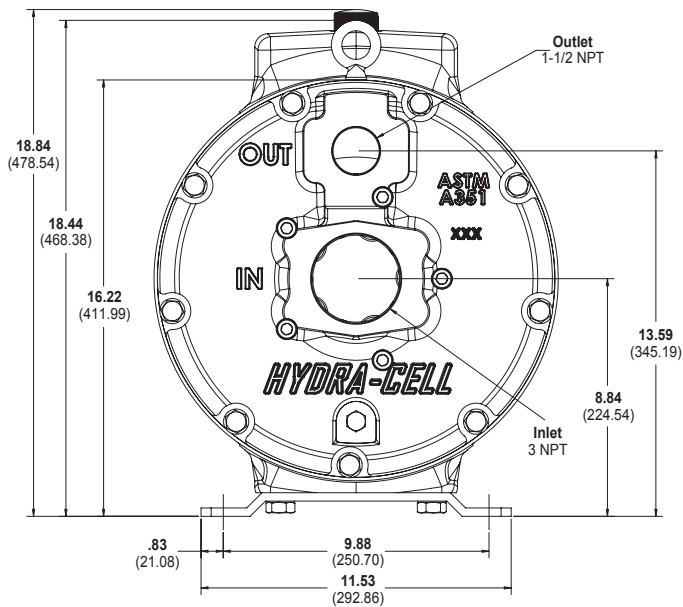


Non-metallic pump head models shown.

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

Digit	Order Code	Description
11		Valve Spring Retainers
	T	Celcon
	M	PVDF
12		Hydra-Oil
	C	EPDM-compatible oil
	H	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

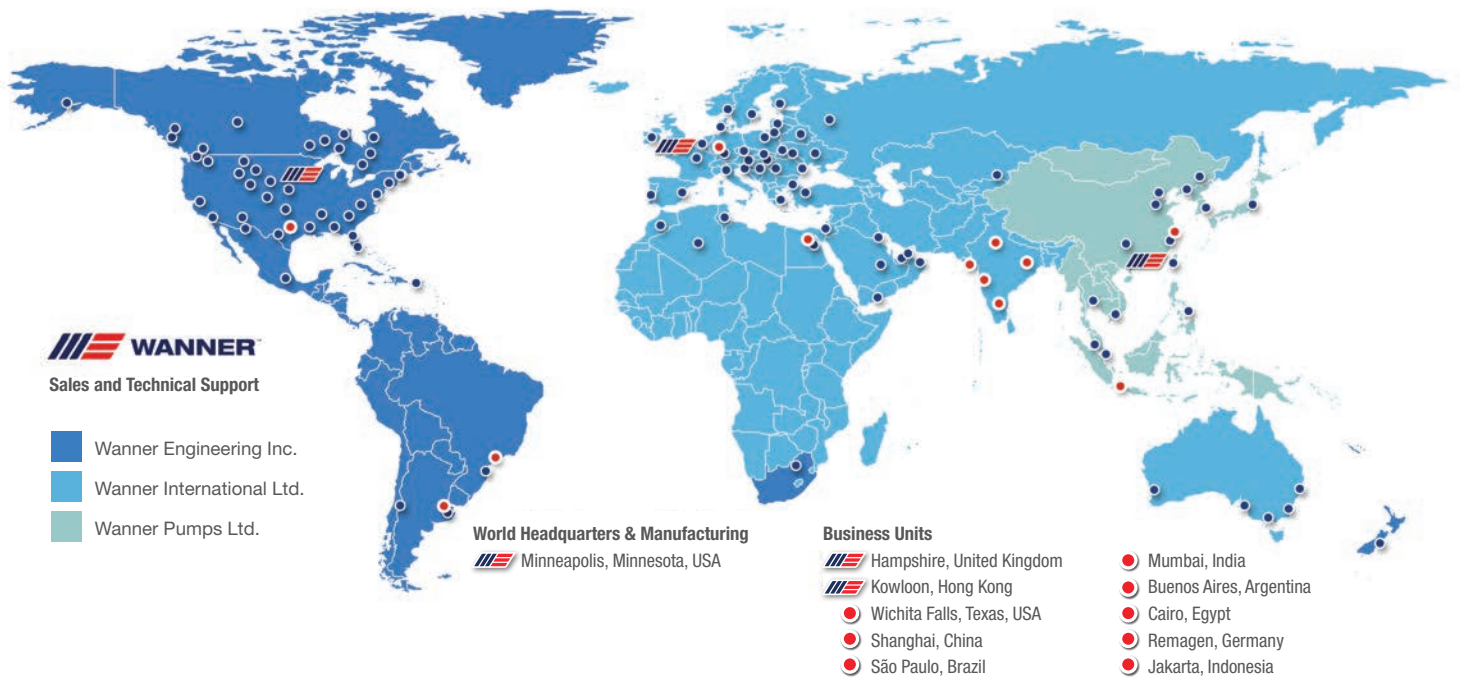


D66 Pro with Stainless Steel pump head



D66 Pro with Polypropylene pump head

Partners in over 70 countries



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