

Hydra-Cell[®]

Industrial Pumps



WANNER ENGINEERING INC

Hydra-Cell®



Durability, performance and simplicity of design make Hydra-Cell® pumps the optimum choice for the widest range of pump applications.

When we say "Simply Built to Last", we mean it!

Wanner Engineering Hydra-Cell pumps have proven their performance and reliability in many of the toughest industrial equipment and process applications.

Our customers are found in virtually every market sector of industry, but they all share the same concern; they all require pumps to keep their plants and equipment running... Reliably!



- Agricultural & lawn care
- Automatic car washes
- Chemical processing
- Food & drug
- High pressure machine tool coolant
- Metering and dosing chemical additives
- Mining
- Oil production & refining
- Paper & pulp
- Parts washing
- Pressure washing
- Reverse osmosis
- Water and wastewater

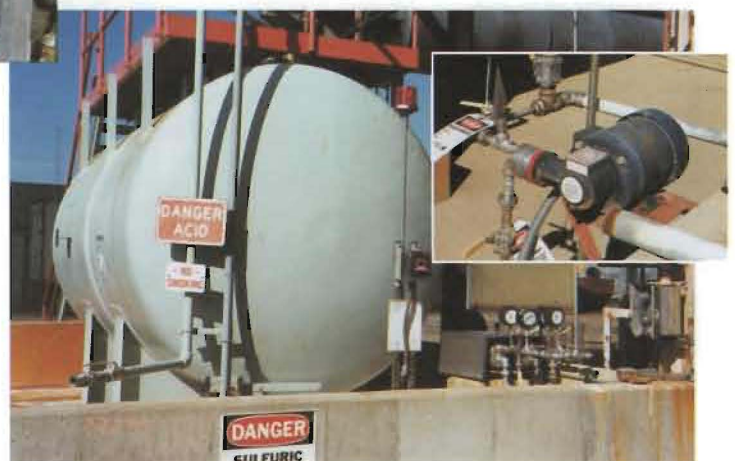


Hydra-Cell® positive displacement pumps handle the difficult fluids that destroy other pumps.

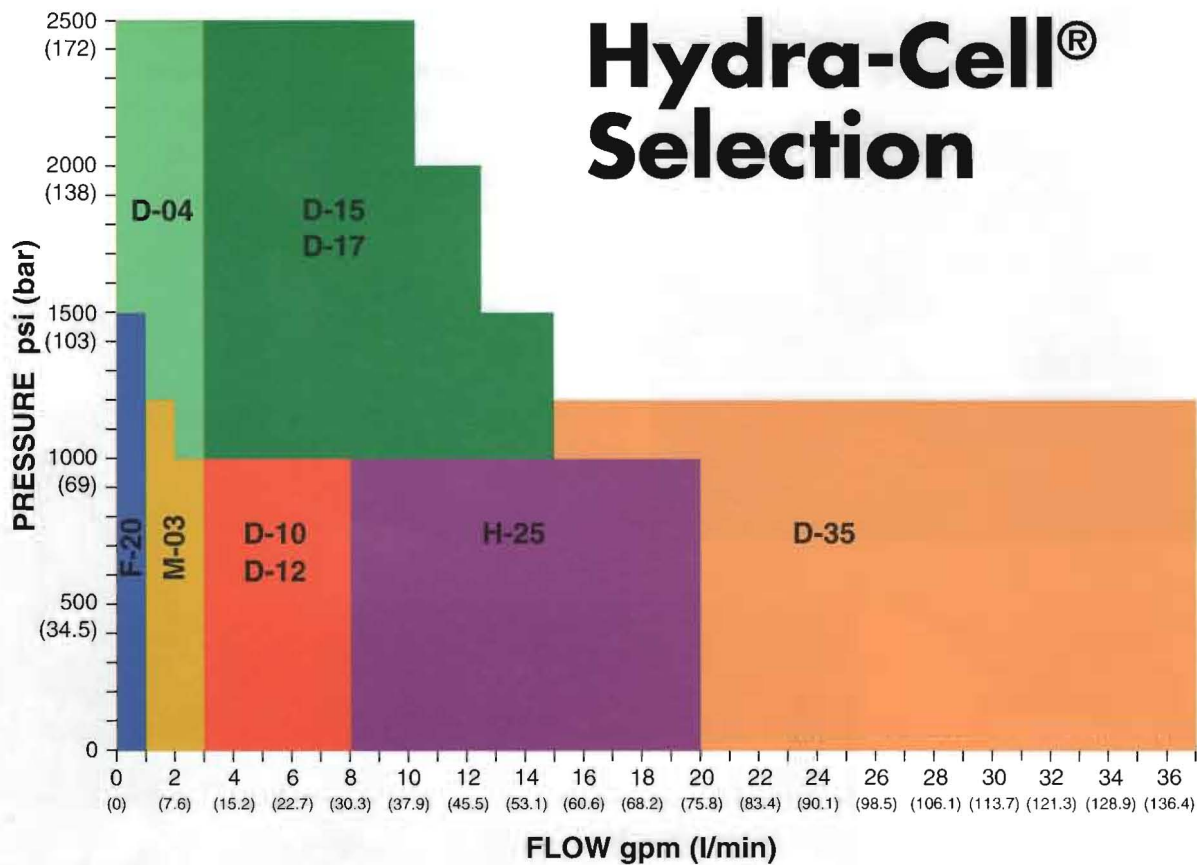


Hydra-Cell pumps handle a lot more than just clean water!

- Hot fluids
- Reclaim water
- Corrosive fluids
- Slurries
- Abrasives
- Liquid gases
- Wettable powders
- Fertilizers
- Cutting fluids
- Viscous fluids
- Ultrapure fluids
- Chemicals
- Adhesives
- Soap solutions
- Salt water
- and many more...



Hydra-Cell® Selection



F-20

Max Pressure

Metallic Heads:	F-20: 1000 psi (70 bar); F-21 & F-22: 1500 psi (100 bar)
Non-Metallic Heads:	All Models: 250 psi (17 bar)

Capacity @ Max Pressure

	rpm	gpm	l/min
F-20-X	1750	0.96	3.63
F-20-E	1750	0.73	2.76
F-20-S	1750	0.55	2.08
F-20-B*	1750	0.33	1.25
F-20-G*	1750	0.20	0.76

Delivery @ Max Pressure

	revs/gal	revs/liter
F-20-X	1823	500
F-20-E	2397	659
F-20-S	3182	906
F-20-B*	5303	1400
F-20-G*	8750	2302

Max Inlet Pressure 100 psi (7 bar)

Inlet Port 1/2 inch NPT

Discharge Port 3/8 inch NPT

Shaft Diameter F-20: 5/8 inch hollow shaft;
F-21 & F-22: 5/8 inch

Bearings Ball bearings

Oil Capacity 1/8 US quart (0.12 liters)

Weight

Metallic Heads:	12 lbs (5.5 kg)
Non-Metallic Heads:	9 lbs (4.1 kg)



F-20



M-03

M-03

Max Pressure

Metallic Heads	M-03-X: 1000 psi (70 bar) M-03-S, E, B, G: 1200 psi (83 bar)
Non-Metallic Heads	All models: 250 psi (17 bar)

Capacity @ Max Pressure

	rpm	gpm	l/min
M-03-X	1750	3.0	11.3
M-03-E	1750	2.2	8.3
M-03-S	1750	1.8	6.8
M-03-B*	1750	1.1	4.2
M-03-G*	1750	0.5	1.9

Delivery @ Max Pressure

	revs/gal	revs/liter
M-03-X	584	155
M-03-E	795	204
M-03-S	972	258
M-03-B*	1591	415
M-03-G*	3500	906

Max Inlet Pressure 250 psi (17 bar)

Inlet Port 1/2 inch NPT

Discharge Port 3/8 inch NPT

Shaft Diameter M-03: 5/8 inch hollow shaft
D-03: 7/8 inch
M-23: 20 mm hollow shaft

Bearings Ball bearings

Oil Capacity 1 US quart (0.95 liters)

Weight

Metallic Heads:	28 lbs (12.7 kg)
Non-Metallic Heads:	19 lbs (8.6 kg)

* May require pressurized inlet.

Performance specifications are guidelines only.

D-04

Max Pressure	2500 psi (170 bar)		
Capacity @ Max Pressure	rpm	gpm	l/min
D-04-X	1750	2.9	11.0
D-04-E	1750	2.1	7.8
D-04-S	1750	1.6	6.1
Delivery @ Rated Pressure	revs/gal		
	500 psi	1500 psi	2500 psi
D-04-X	565	583	603
D-04-E	761	795	833
D-04-S	921	972	1093
	revs/liter		
	34 bar	100 bar	170 bar
D-04-X	149	154	159
D-04-E	201	211	224
D-04-S	244	257	287
Max Inlet Pressure	500 psi (34 bar)		
Inlet Port	1/2 inch NPT		
Discharge Port	1/2 inch NPT		
Shaft Diameter	7/8 inch		
Bearings	Ball bearings		
Oil Capacity	1.1 U.S. quart (1.05 liters)		
Weight	37 lbs (16.8 kg)		

**D-04****D-10****D-12****D-15/17****D-10 (Horizontal) D-12 (Vertical)**

Max Pressure			
Metallic Head:	D-10, D-12: 1000 psi (70 bar)		
Non-Metallic Head:	D-10: 250 psi (17 bar)		
Capacity @ Max Pressure	rpm	gpm	l/min
D-10/12-X	1450	7.8	29.0
D-10/12-E	1750	8.0	30.3
D-10/12-S	1750	6.0	22.7
D-10/12-I	1750	3.9	14.9
Delivery @ Max Pressure	revs/gal	revs/liter	
D-10/12-X	185	50	
D-10/12-E	219	58	
D-10/12-S	292	77	
D-10/12-I	448	117	
Max Inlet Pressure	250 psi (17 bar)		
Inlet Port	1 inch NPT		
Discharge Port	3/4 inch NPT		
Shaft Diameter	7/8 inch		
Bearings	Tapered roller bearings		
Oil Capacity	1.1 US quart (1.05 liters)		
Weight			
Metallic Heads:	D-10: 48 lbs (22 kg)		
	D-12: 64 lbs (29 kg)		
Non-Metallic Heads:	D-10: 35 lbs (16 kg)		

D-15 (Horizontal) D-17 (Vertical)

Max Pressure	1500 psi (100 bar) @ 1750 rpm (D-15-E and D-17-E only) 2000 psi (140 bar) @ 1450 rpm; 2500 psi (170 bar) @ 1150 rpm				
Capacity @ Rated Pressure	rpm	psi	(bar)	gpm	l/min
D-15/17-X	1450	1000	(70)	13.4	50
	1450	1500	(100)	13.0	48
	1450	2000	(140)	12.7	48
	1150	2500	(170)	10.3	39
D-15/17-E	1750	1000	(70)	15.1	57
	1750	1500	(100)	14.1	53
	1450	2000	(140)	11.5	44
	1150	2500	(170)	9.4	35
Delivery @ Rated Pressure	psi	(bar)	revs/gal	revs/liter	
D-15/17-X	1000	(70)	109	28.8	
	1500	(100)	112	29.6	
	2000	(140)	114	30.2	
	2500	(170)	112	29.6	
D-15/17-E	1000	(70)	116	30.6	
	1500	(100)	124	32.8	
	2000	(140)	126	33.3	
	2500	(170)	122	32.3	
Max Inlet Pressure	500 psi (34 bar)				
Inlet Port	1-1/4 inch NPT				
Discharge Port	3/4 inch NPT				
Shaft Diameter	1-1/8 inch				
Bearings	Taper roller bearings				
Oil Capacity	2.2 U.S. quart (2.1 liters)				
Weight	145 lbs (66 kg)				

Performance specifications are guidelines only.

Common Specifications:**Max Temperature**

Metallic Heads: 250°F (121°C)
Consult factory for correct component selection
for temperatures above 160°F (71°C)

Non-Metallic Heads: 140°F (60°C)

Shaft Rotation Bi-directional

H-25

Max Pressure

Metallic:	1000 psi (70 bar)
Non-Metallic:	250 psi (17 bar)

Capacity @ Max Pressure

	rpm	gpm	l/min
H-25-X	1050	20.0	76
H-25-E	1150	20.2	77
H-25-S	1150	15.6	59
H-25-I	1150	11.6	44

Delivery @ Max Pressure

	revs/gal	revs/liter
H-25-X	52	14
H-25-E	57	15
H-25-S	74	19
H-25-I	99	26

Max Inlet Pressure

250 psi (17 bar)

Inlet Port

1-1/2 inch NPT

Discharge Port

1 inch NPT

Shaft Diameter

1-1/8 inch

Bearings

Tapered roller

Oil Capacity

2-1/2 US quarts (2.4 liters)

Weight

Metallic Heads:	125 lbs (56.8 kg)
Non-Metallic Heads:	90 lbs (40.9 kg)



H-25



D-35

D-35

Max Pressure

1200 psi (83 bar)

Capacity @ Max Pressure

	rpm	gpm	l/min
D-35-X	1050	36.5	138
D-35-E	1150	34.5	131

Delivery @ Max Pressure

	revs/gal	revs/liter
D-35-X	29	7.7
D-35-E	33	8.8

Max Inlet Pressure

250 psi (17 bar)

Inlet Port

2-1/2 inch NPT or
3 inch SAE flange

Discharge Port

*1-1/4 inch NPT or
1-1/4 inch SAE flange

Shaft Diameter

2 inch

Bearings

Tapered roller

Oil Capacity

5 US quarts (4.7 liters)

Weight

240 lbs (109 kg)

Performance specifications are guidelines only.

Flexible pump designs to meet your customized needs...



- 1 High pressures up to 2500 psi
- 2 Vertical designs for machine tool and similar pump applications
- 3 Complete line of valves, pump/motor adapters, couplings, and other accessories
- 4 Welded flanges for petrochemical and other critical installations
- 5 Wide selection of pump head, diaphragm and valve materials as well as optional mounting configurations
- 6 Slurry duty designs for tough fluids that destroy most other pumps

Accessories

Accessory products simplify installation, increase performance and tailor pumps to harsh requirements:

- Pump/motor adapters, baseplates, couplings and guards
- Oil cooler and filter system
- Oil level monitor
- Oil reservoir sight bottles
- Specialty tools
- Hose connectors



Modified and Customized Designs

- Pump component modification to handle a particular fluid, critical performance specification, extreme operating conditions
- Custom pump head or body castings
- Matching OEM paint specifications
- Private labeling



Hydra-Cell pumps for all your applications...

*Clean. Dirty. Hot.
High pressure.
Low pressure. Caustic.
Thick. Goopy. Abrasive.
Flammable. Perishable.
Wettable Powder...*

These are just a few of the words our customers use to describe their pumping applications. From liquid butane to drinking water to ceramic slurries, Hydra-Cell pumps handle the full spectrum of industrial and commercial fluids.

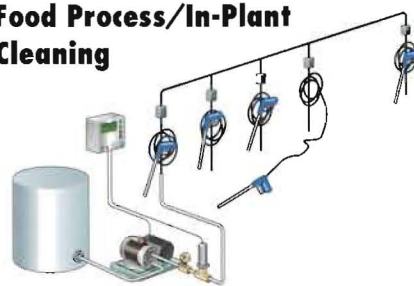
Flue Gas Emission Control



Agricultural Applications



Food Process/In-Plant Cleaning



Parts Washing



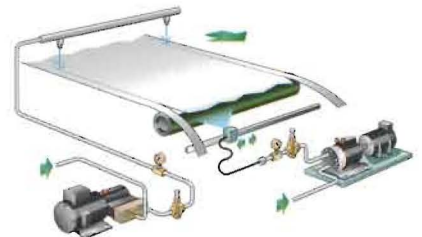
Machine Tool Coolant



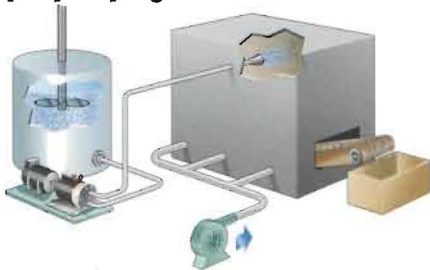
Lawn Care



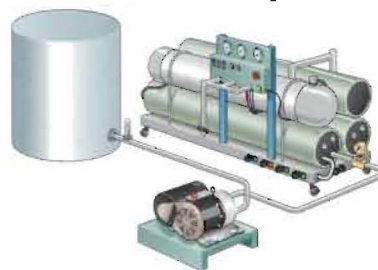
Paper Mill Applications



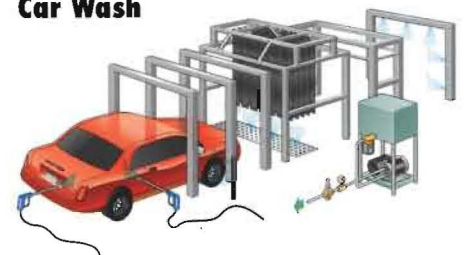
Spray Drying - Abrasives



Reverse Osmosis - Separation



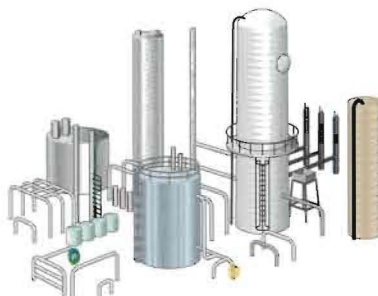
Car Wash



Tote, Tank and Barrel Washing



Oil Production and Refining



Propellant Packaging



Hydra-Cell™ Worldwide Sales & Service



Hydra-Cell pumps are sold and serviced worldwide by a comprehensive network of factory trained pump distributors. As specialists in pump technologies, these distributor organizations offer you a vital local resource for technical expertise, product training, sales and service.

Hydra-Cell distributors are located in more than thirty countries worldwide. In North America specifically, over 100 Hydra-Cell distributor locations provide local availability for every major industrial marketplace.

Contact our home office for the distributor location nearest you.

Argentina	Holland	Portugal
Australia	Hong Kong	Puerto Rico
Austria	Iceland	Singapore
Belgium	India	South Africa
Brazil	Indonesia	Spain
Canada	Israel	Sweden
China	Italy	Switzerland
Czechoslovakia	Japan	Taiwan
Denmark	Korea	Thailand
Finland	Malaysia	Turkey
France	Mexico	United Kingdom
Germany	New Zealand	United States
Greece	Norway	Uruguay
		Venezuela

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PUMPS AND TANKS