

*Hydra-Cell*<sup>®</sup>

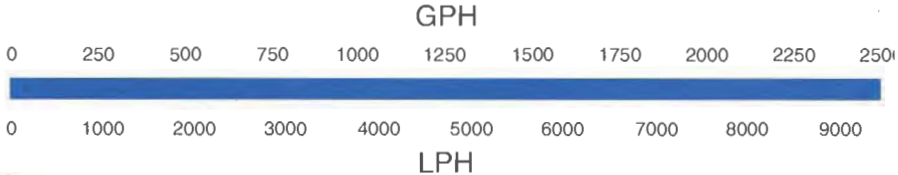
*Precision  
Pumping  
Applications*

- $\pm 1\%$  steady state accuracy
- Flow rates from 0 to 2100 GPH/  
7950 LPH
- Thirty-plus years of field-proven  
reliability
- Inherently superior  
performance, mechanical  
simplicity and cost-efficiency  
over other metering pump  
designs



**WANNER ENGINEERING INC**

# Hydra-Cell<sup>®</sup> Pump Capacity:



**F/G-20**  
 Shaft-driven  
 up to 1500 psi  
 (100 bar)



60 GPH / 227 LPH

**D/G-03**  
 Shaft-driven  
 up to 1200 psi  
 (80 bar)



120 GPH / 454 LPH

**D/G-04**  
 Shaft-driven  
 up to 2500 psi  
 (170 bar)



120 GPH / 454 LPH

**D/G-10**  
 Shaft-driven  
 up to 1000 psi  
 (70 bar)



480 GPH / 1817 LPH

**D/G-15**  
 Shaft-driven  
 up to 2500 psi  
 (170 bar)



720 GPH / 2725 LPH

**H/G-25**  
 Shaft-driven  
 up to 1000 psi  
 (70 bar)



1200 GPH / 4542 LPH

**D/G-35**  
 Shaft-driven  
 up to 1200 psi  
 (80 bar)



2100 GPH / 7950 LPH

**Hydra-Cell<sup>®</sup>**

## The cost-effective metering pump alternative



### **Durability, Performance, Simplicity...**

Wanner Engineering's world class manufacturing and the Hydra-Cell's unique design create a cost-effective alternative to conventional hydraulically-driven diaphragm metering pumps.

### **Hydra-Cell Metering Pump Advantages**

- Precise, steady-state accuracy of  $\pm 1\%$
- Repeatability to 3% or better
- Linearity to 3% or better
- 10:1 turndown ratio
- Positive displacement with smooth, virtually pulse-free flow
- Flow rates from 0 to 2100 GPH/7950 LPH; pressures to 2500 psi/170 bar
- High volumetric efficiencies - low power consumption
- 30+ years of field-proven reliability
- Inherently superior performance, mechanical simplicity and cost-efficiency over other metering pump designs
- Wide choice of materials of construction for pump heads, diaphragms and valve assemblies
- Capable of metering viscous slurries
- Sealless design - can pump solids in suspension
- Can run dry!
- Heavy-duty industrial construction for long service life in harsh conditions
- Hydraulically-balanced, unstressed diaphragms

# Hydra-Cell<sup>®</sup> pumps handle the full spectrum of difficult fluids.

## ◀ Non-Lubricating

Volatile Fluids  
Propane  
Butane

Freon

Ammonia

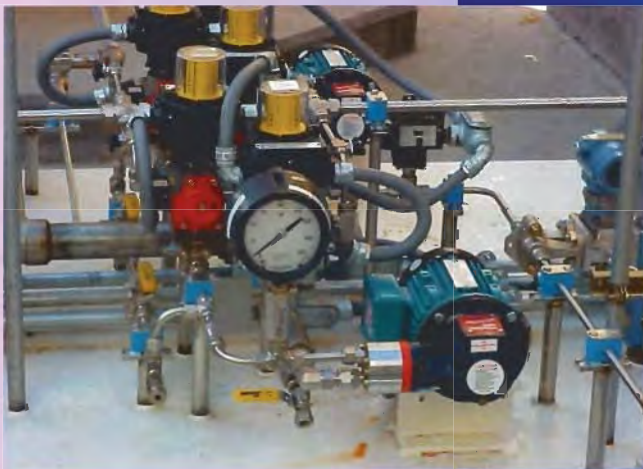
Polymers

Fuels/  
Additives

D.I.  
Water



Fuel Additives



NOX Reduction  
Ammonia Injection



Gas Cooling  
De-ionized Water

# Viscous Abrasives



Glycols

Chlorine

Acids/  
Caustics

Glues/  
Adhesives

Ink/  
Paints

Resins

Slurries



Inks/Paints

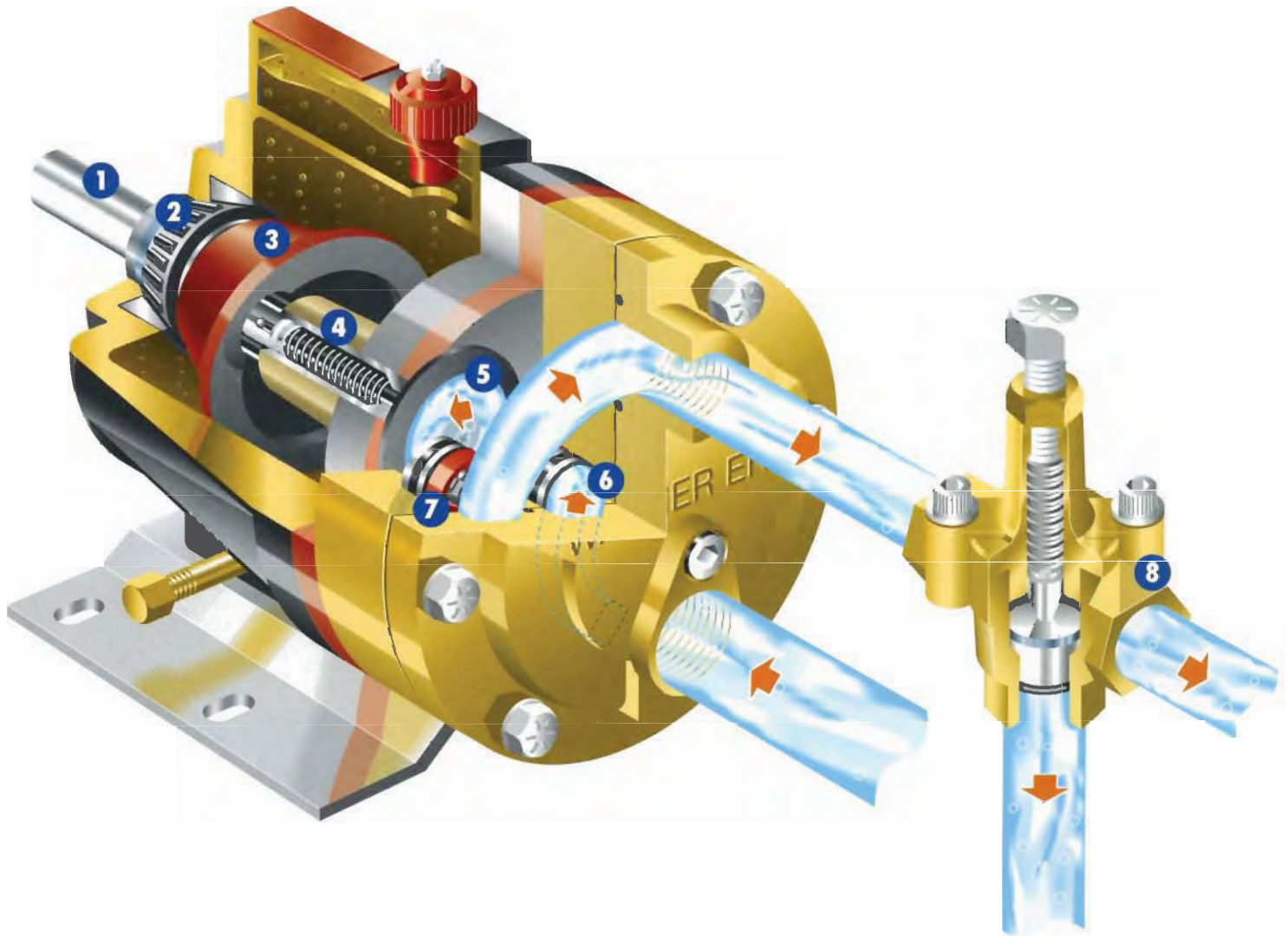


Acids/Caustics



Flue Gas Desulfurization

# Hydra-Cell®... "Simply Built to Last!"



- 1** Drive shaft – via electric motor, hydraulic motor, belt and pulley, etc.
- 2** Roller bearings – rigid support, immersed in lubricating oil bath
- 3** Fixed-angle cam – translates rotary motion into linear to the hydraulic cells
- 4** Hydraulic cells – displace diaphragms via pressurized oil
- 5** Diaphragms – hydraulically balanced, no stress during flexing
- 6** Inlet valve assemblies – simple design, allows liquid into pump chamber
- 7** Outlet valve assemblies – allows liquid to flow into pressurized discharge line
- 8** Pressure regulating valve – controls output pressure and prevents pump overload