

Hydra-Cell[®]

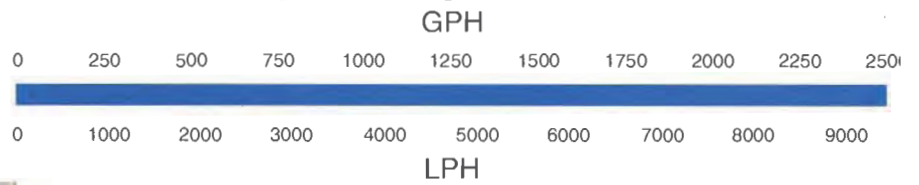
*Precision
Pumping
Applications*

- $\pm 1\%$ 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[®] Pump Capacity:



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



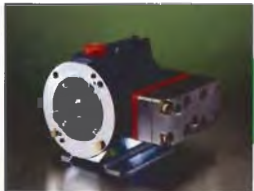
60 GPH / 227 LPH

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[®]

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[®] pumps handle the full spectrum of difficult fluids.

◀ Non-Lubricating

Volatile Fluids
Propane
Butane

Freon

Ammonia

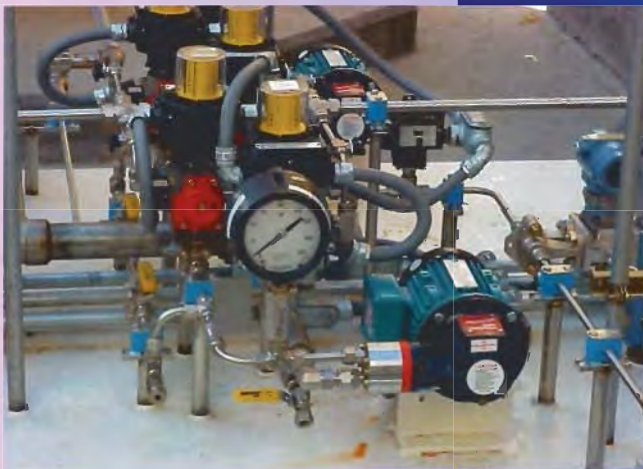
Polymers

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

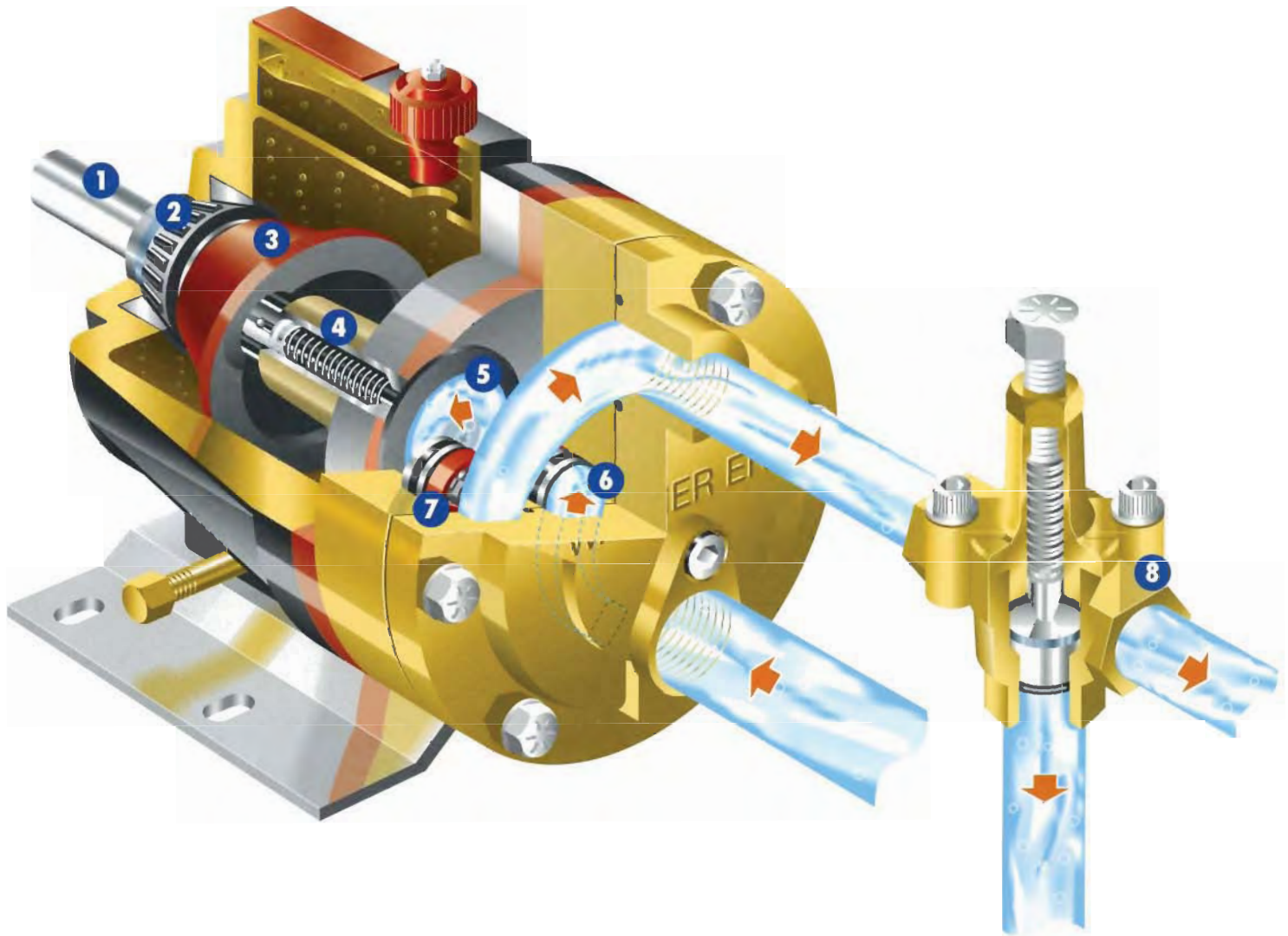


Acids/Caustics



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