



ITT

Engineered Valves
Goulds Pumps

Power

QUALITY PUMPS & VALVES

DESIGNED SPECIFICALLY FOR THE

POWER INDUSTRY.

motralec

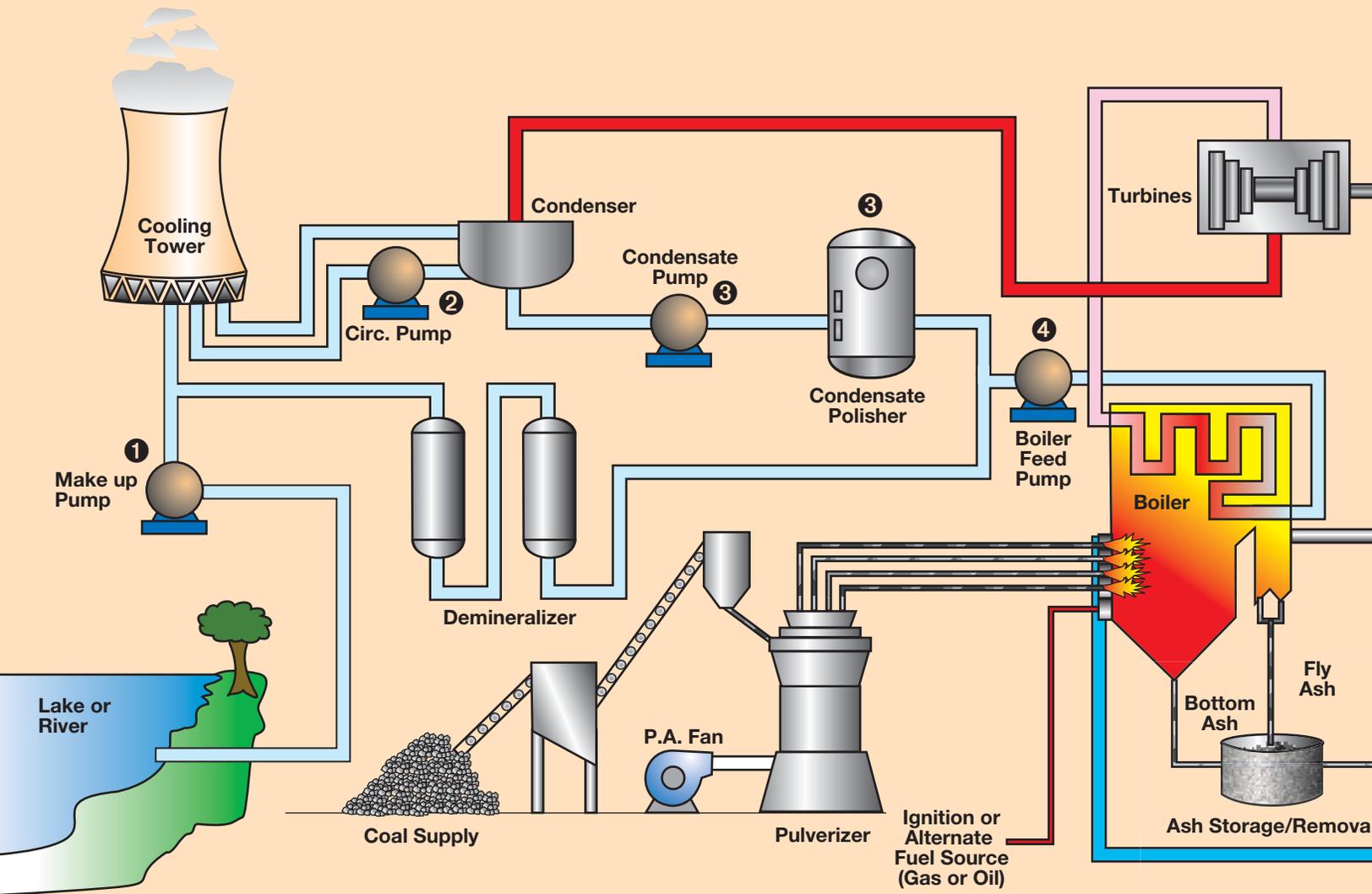
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Power Plant System



1 3

Vertical Turbine and Can Model VIT/VIC

A wide range of hydraulic conditions allows meeting requirements of virtually every power pumping service.



2

Wet Pit Column Pumps Model WCAR

Custom designed for maximum reliability and high efficiency.

- Open or enclosed impellers
- Multiple specific speed designs to meet any system requirement
- Pull-out design available for reduced downtime and maintenance costs
- Available in a wide variety of materials

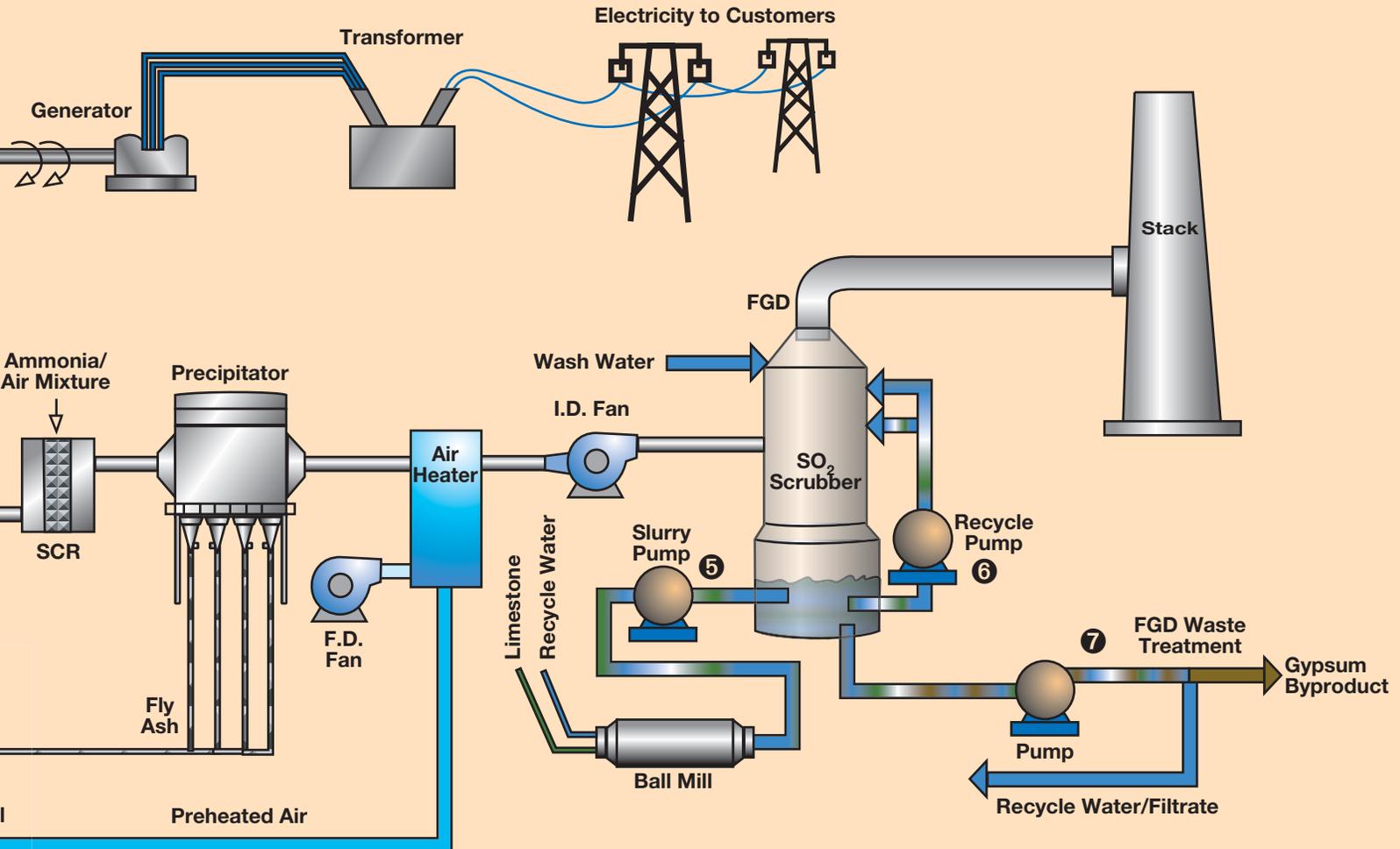


4

High Temperature Multistage Model 3600

Between bearings, axially split multistage process pumps designed for smooth, reliable operation in boiler feed and other high pressure applications.

Pumps

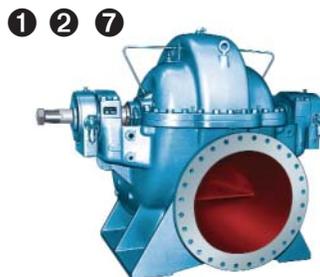


Typical Coal-Fired Power Plant System.



Abrasive Slurry Handling Model SRL

The SRL pumps are designed to handle the toughest abrasive slurries such as Flue Gas Desulphurization. Features include wear resistant rubber liners for maximum life and engineered for ease of maintenance.



Horizontal Splitcase Series 3400

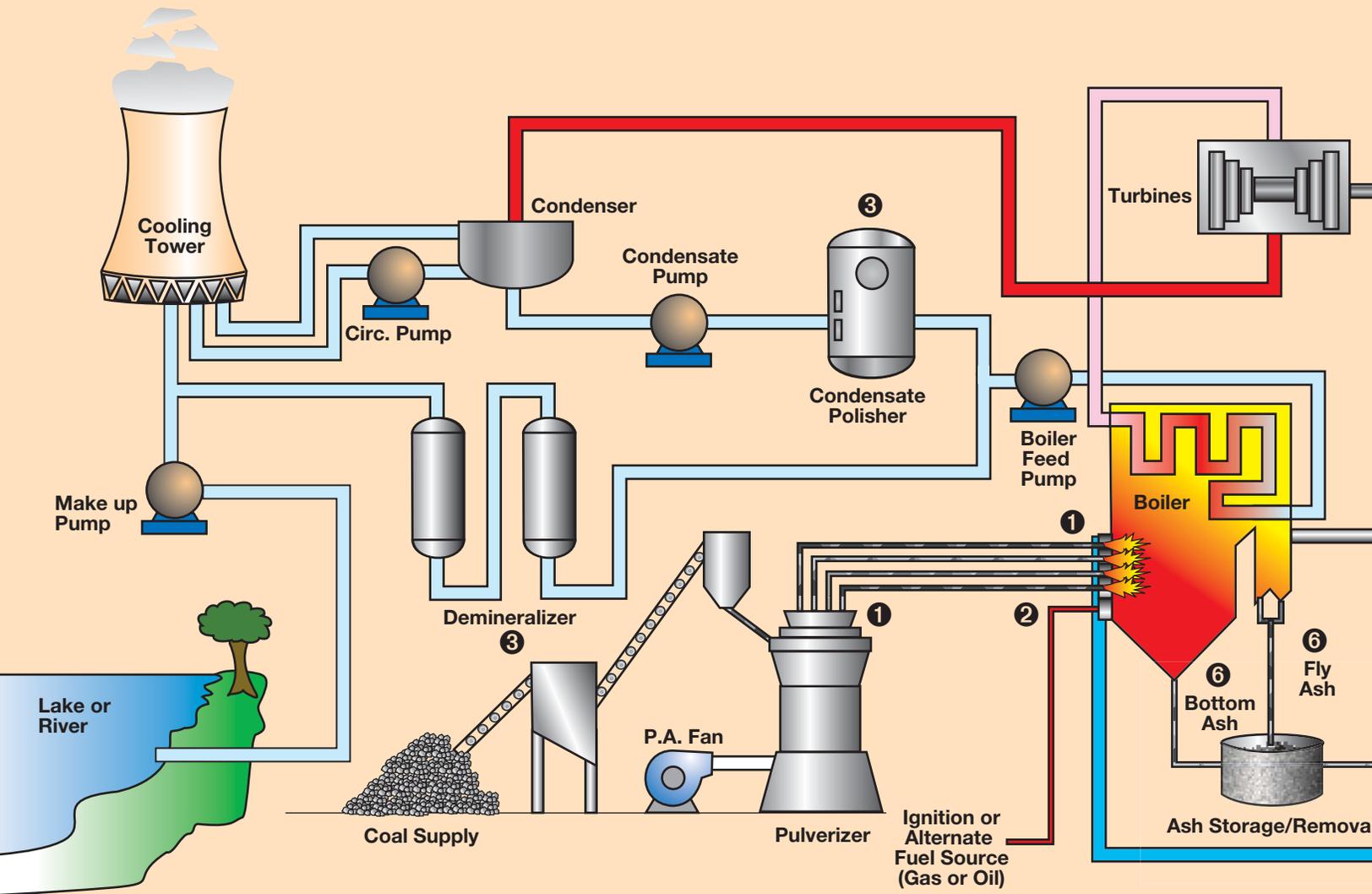
Used for condensate booster, service water, cooling water booster, river waste makeup, raw water, reclaimed water and more.



Vertical Sump Model 3171

Used for coal pile runoff sump, boiler blowdown sump, and other miscellaneous power plant services.

Power Plant System



1



Pulverizer/Coal Burner Isolation Fabri-Valve® Knife Gate Valves

- "Pop-in" style replaceable seats available in a variety of materials
- Optional hard facing seats/gates for additional abrasion resistance
- Exceeds NFPA 85 dusttight requirement
- Custom-engineered designs for retrofit applications

2



Burner & Igniter Safety Shutoff Valve Scotch® Burner S50V

- Compact 3-in-1 design requires less space and reduced installation time and labor.
- Oil shutoff, atomizing shutoff and purge in single valve system
- Gas double block and vent in single valve system
- Factory Mutual (FM) Approved

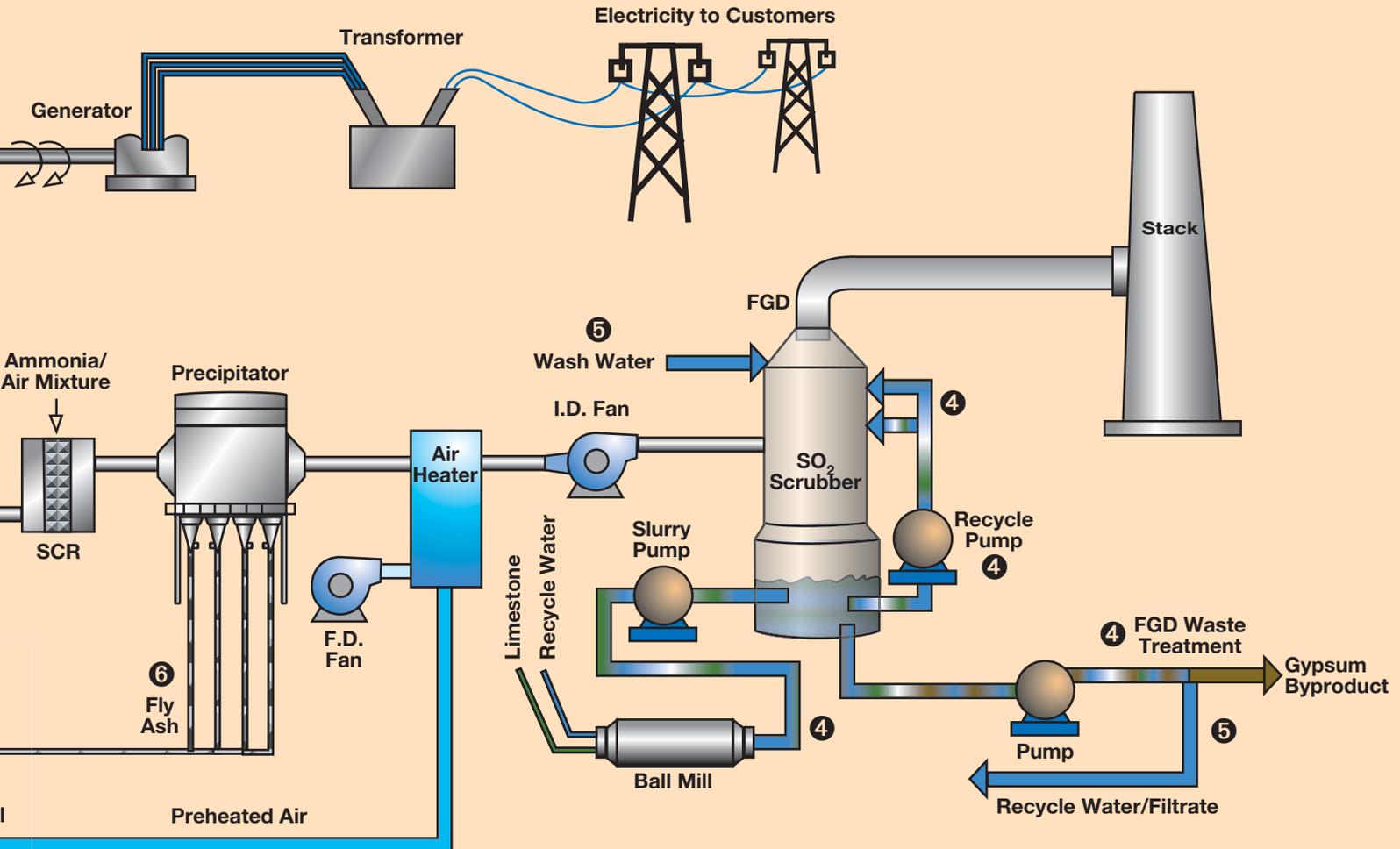
3



Demineralizer/Condensate Dia-Flo® Diaphragm Valves

- 50+ years of proven service for demineralizer
- Reliable long term life
- Easy in-line maintenance
- Modulating and control capabilities
- No packing glands to maintain

Valves



Typical Coal-Fired Power Plant System.

4



FGD Slurry

Fabri-Valve® Knife Gate Valves

- Limestone and gypsum slurries
- Zero Discharge options available
- Urethane and rubber-lined designs available
- Wide selection of special alloy materials for high chlorides

5



FGD Water/Waste Water

Dia-Flo® Diaphragm Valves

- Filtrate, reclaim, mist eliminator wash, dewatering
- Rugged design for reliable, long-term life
- Easy in-line maintenance
- Diaphragm able to close over suspended solids
- Modulating and control capabilities

6



Ash Handling

Fabri-Valve® Knife Gate Valves

- Bottom ash and fly ash, dry and wet
- Designs available up to 1600°F (871°C)
- Bubble-tight, bi-directional shutoff
- Upgraded seats and gates available for more abrasive applications

The Right Pump or Valve for Every Power Plant Job!

Reliability. Durability. Performance.

Goulds Pumps manufactures and services a complete family of proven pumps for power plant operations — our products are involved in every phase, from boiler to condenser, through the entire cycle. Pumps for handling boiler feedwater, scrubbing exhaust gases, transferring corrosive chemicals and supplying cooling water. Corrosion, abrasion and extreme pressures and temperatures are just a few of the conditions our process pumps are designed to withstand.

Goulds pumps are tailored to meet the individual needs of the power industry with demonstrated superior field reliability incorporated in each design.

We engineer each pump with the user in mind to meet the needs of the application and to ensure ease of maintenance and service. We have a long history of providing reliable and durable pumps for the power industry.

When you demand the most dependable and efficient pumping equipment to keep pace with your power fluid handling needs — whether it's an 80 MW combined cycle plant or a 1000 MW coal fired main station utility — we have the products to meet your pumping requirements.

Goulds Pumps...providing an unparalleled level of experience and expertise to solve your most difficult pumping problems for power generation.



Other Pumps for Power



Severe Duty Slurry Model 5500

For ash pond blowdowns, fly ash unloading, LP, HP, ash water, ash slurry, absorber blowdown and absorber quench.



End Suction Process Model 3196

For heater drain, condensate transfer, polisher, lube oil, screen wash, redrain water, mist elimination and other miscellaneous applications. Over 600,000 installations worldwide.



Large End Suction Process Model 3180/3185

For higher capacity heater drain, condensate, and Flue Gas Desulfurization services.

Flue Gas Desulphurization (FGD) Valves

Fabri-Valve® XS150-ULV Knife Gate Valve

For all FGD Slurry applications, the Fabri-Valve XS150-ULV incorporates replaceable urethane liners along with the patented perimeter seal technology for best in class performance.

Advantages:

- Zero discharge
- Zero leakage
- On-line packing adjustment

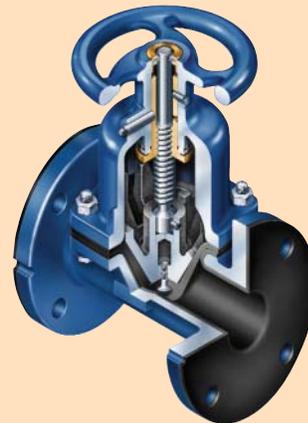


Fabri-Valve XS150-ULV Knife Gate Valve

Dia-Flo® Diaphragm Valves

Dia-Flo diaphragm valves are an excellent choice for corrosive slurry since there are no wetted parts which are metal and the diaphragm is able to close over suspended solids. Dia-Flo diaphragm valves provide a reliable and cost-effective solution in the following FGD applications:

- Smaller drain lines
- Slurry throttling
- Recycle /wash water
- FGD waste water containing heavy materials



Dia-Flo Rubber Lined Valve

Nuclear Power Plant Valves

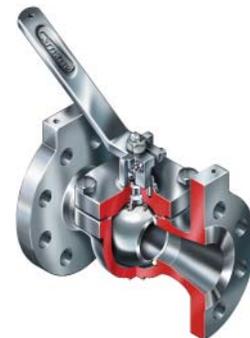


Dia-Flo® Diaphragm Valves

For radwaste systems, chemical volume control systems, boron regeneration systems, steam generator blow down, and service water systems.

N

Engineered Valves maintains the ASME Section III nuclear power plant components 'N' stamp – class 2 & 3 and complies with ANSI B31.1 power piping code for diaphragm and ball valves.



Cam-Tite® Ball Valves

For spent fuel re-processing plants, radwaste reduction operations, nuclear off-gas treatment, dry chlorine applications, and in controlled atmospheres of helium, hydrogen and nitrogen.

The Power of Value-Added Service



State-of-the-Art Engineering Test Facilities

- 100' long x 24' wide x 30' deep
- 440,000 gallon volume
- Test capacities up to 300,000 GPM
- 3000 hp capability, 4160 volt, 150 PSIG multiple gear drives
- 42" magnetic flow meters
- Enhanced data acquisition system
- Vertical column, double suction, submersible and multistage split case pumps. Wet and dry pit tooling available.

Installation and Commissioning

Installation specialists play a major role in every project of any size. Their mission is to assure the customer that all equipment is installed and operating according to original specifications.

Parts

Distribution centers are strategically located worldwide, and inventory genuine products and parts for immediate response with the necessary equipment.

Service Centers

Repair & Overhaul Shops can rebuild and repair all brands of pumps, valves, and other rotating equipment. This capability often eliminates the need for replacement, and decreases customer downtime. PRO Shops substantially reduce the need for customer inventory and our factory-trained field engineers apply leading edge engineering technology to each job.

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