



brands you trust.



Solutions for Power Generation



Crane ChemPharma & Energy

www.cranecpe.com



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Introduction to Crane • Crane Co.

FOUNDED IN 1855

- 1 FLUID HANDLING
- 2 AEROSPACE & ELECTRONICS
- 3 MERCHANDISING SYSTEMS AND PAYMENT TECHNOLOGIES
- 4 ENGINEERED MATERIALS

Crane Co.

Crane Co. is a diversified global manufacturer of engineered industrial products traded on the New York Stock Exchange (NYSE: CR). One of its segments, Crane Fluid Handling, provides highly engineered products for fluid handling applications worldwide.

The Fluid Handling Segment

Crane Fluid Handling provides highly-engineered products including **valves, pumps, controls and water treatment equipment for fluid handling applications worldwide.** Its operating units include Crane ChemPharma & Energy, Crane Nuclear, Crane Building Services, Crane Pumps & Systems, Crane Supply, Barksdale Control Products.

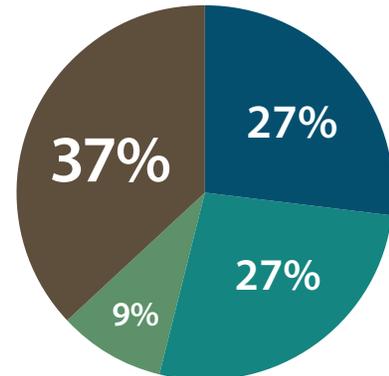
Crane ChemPharma & Energy (CPE)

Crane CP&E designs and manufactures a variety of high-performance products including: highly-engineered **check valves, sleeved plug valves, lined valves, process ball valves, high performance butterfly valves,** bellows sealed globe valves, aseptic and industrial diaphragm valves, multi/quarter-turn valves, actuation, sight glasses, lined pipe, **fitting and hoses, and air-operated diaphragm and peristaltic pumps.** Its trusted brands are in use worldwide in many industries, including **Oil & Gas, Oil Refining, Petrochemical, Power Generation, Chemical Processing, Biotechnology, and Pharmaceutical.**

Crane (CPE) Brands

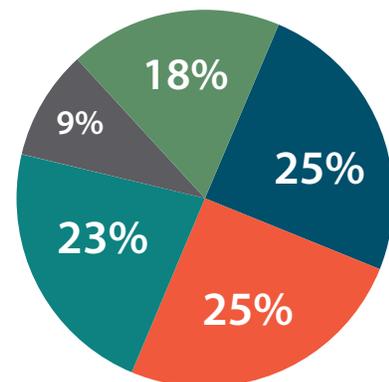
ALOYCO • CENTER LINE • COMPAC-NOZ • CRANE • DEPA
DUO-CHEK • ELRO • FLOWSEAL • JENKINS • KROMBACH
NOZ-CHEK • PACIFIC • RESISTOFLEX • REVO • SAUNDERS
STOCKHAM • TRIANGLE • UNI-CHEK • WTA • XOMOX

Crane Co.



- Fluid Handling
- Aerospace & Electronics
- Merchandising and Payment Technologies
- Engineered Materials

Key Markets



- Chemical/Petrochemical
- Energy
- Building Services
- Municipal
- General Industry

Quality & Certifications

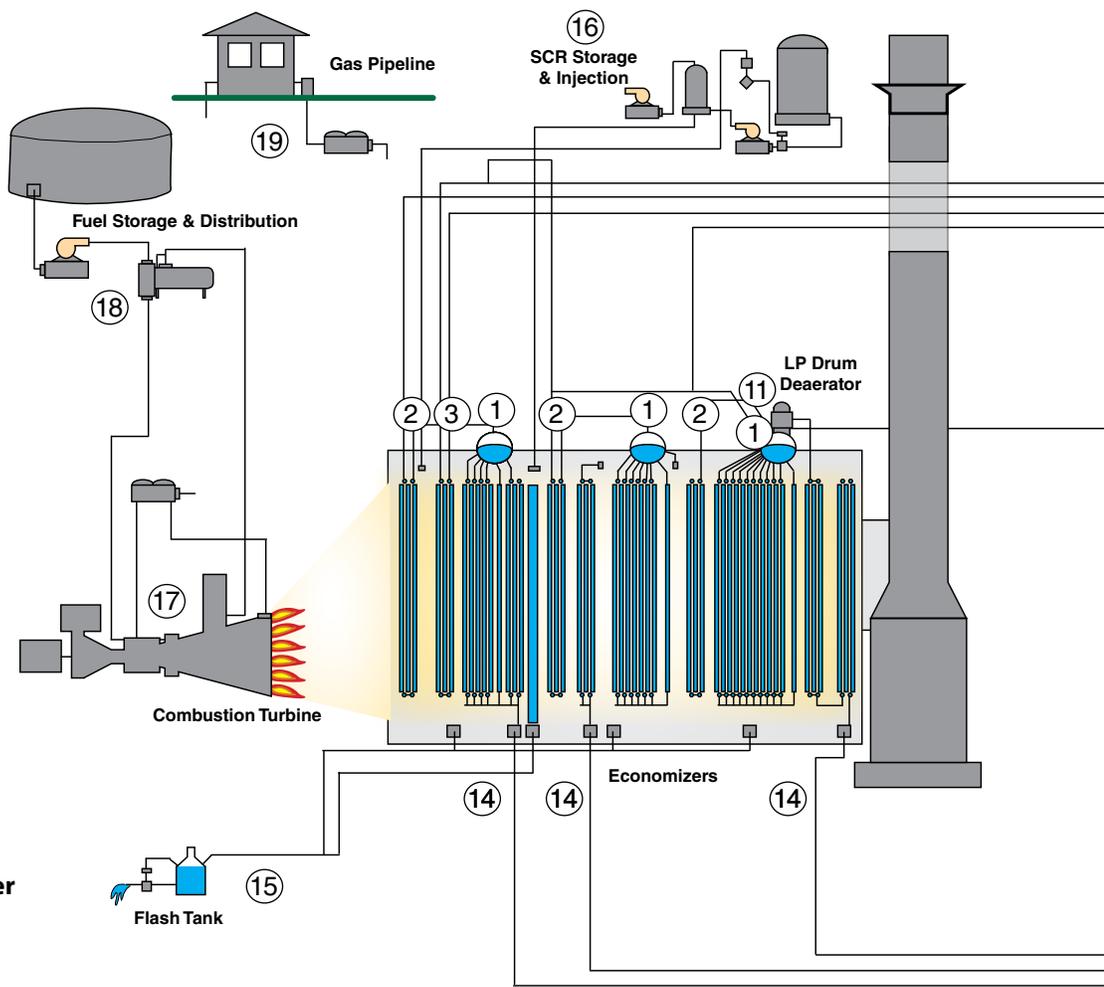


The following is a partial list of certificates held by Crane ChemPharma & Energy. All certificates are available upon request.

- ISO 15848-1
- ASME 16.34, 16.10, 16.5, 16.25
- ISO 9001: 2000 (Det Norske Veritas, TÜV)
- ISO 14001:2005 (TÜV Nord)
- Zertifikat DGRL Certificate PED (TÜV Nord)
- Directive 97/56/EG
- API 6D
- QS - Certificate of Assessment PED (Det Norske Veritas)
- Technical Standards & Safety Authority
- Laboratorio De Pruebas De Equipos Y Materiales
- Welding Procedure Approval (Det Norske Veritas)
- Russian GOST R
- Water Regulation Advisory Scheme
- Design Assessment (American Bureau of Shipping)
- Konformitätserklärung ATEX - Declaration of Conformity ATEX
- DVGW - Baumuster-Prüfzertifikat Gasversorgung (DVGW Zertifizierungsstelle)
- Certificate of Recognition (Bureau Veritas)
- AD 2000-Merkblatt HP 0/TRD 201/GGVE/GGVs
- AD 2000-Merkblatt A4
- Shipbuilding approval according to MODE IBV/Mode II
- EN 729-2
- KTA 1401
- TA Luft 2000
- API 622 emissions testing
- EPA Method 21 emissions testing
- CE
- 10CFR50 Appendix B
- ASME N45.2
- ASME N-Stamp N-2 899
- ASME NPT Stamp N-2900
- ASME NCA-4000
- ASME NB Registration
- Repair and Testing of Valves and Actuators in Compliance with 10CFR.50 Appendix B and ASME NQA-1
- "NR"- Field Repair or Replacement of Class 1, 2, & 3 Line Valves and Section III Class 1, 2 and 3 Pressure Relief Devices
- "VR"- Field Repair of ASME Section I, III and VIII PRV

** These certifications are only applicable to certain products.

Combined Cycle Power Plant



- 1. Drums (HP, IP, LP)**
Check Valves
Isolation Valves
Non-return Valves
Vent & Drain Valves

- 2. Superheater (HP, IP, LP)**
Check Valves
Isolation Valves
Vent & Drain Valves

- 3. Reheater**
Check Valves
Isolation Valves
Vent & Drain Valves

- 4. Steam Turbine with Condenser**
Extraction/Induction Check Valves
Main Steam Isolation
Drain Valves

- 5. Cooling Water Circulation**
Butterfly Valves
Check Valves
Isolation Valves
Drain Valves
Diaphragm Valves
Polypropylene-Lined Pipe

- 6. Water Treatment**
Butterfly Valves
Check Valves
Isolation Valves
Drain Valves
Diaphragm Valves
Polypropylene-Lined Pipe

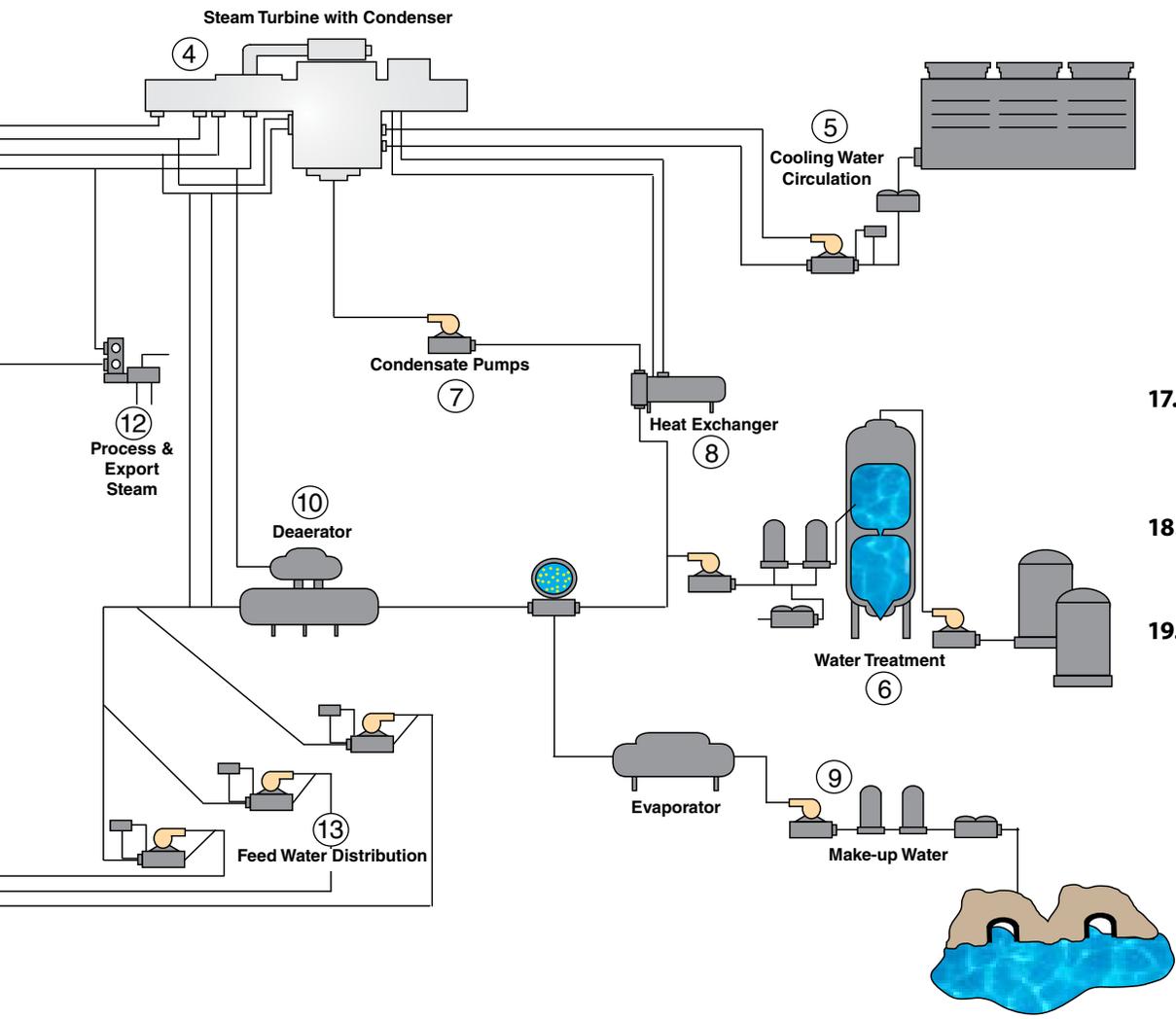
- 7. Condensate Pumps**
Butterfly Valves
Check Valves
Isolation Valves
Drain Valves

- 8. Heat Exchanger**
Check Valves
Isolation Valves
Vent & Drain Valves

- 9. Make-up Water**
Butterfly Valves
Check Valves
Isolation Valves
Lined Valves
Strainers
Diaphragm Valves
Polypropylene-Lined Pipe

- 10. Deaerator**
Check Valves
Isolation Valves
Vent & Drain Valves
Diaphragm Valves

Combined Cycle Power Plant



17. Combustion Turbine

- Butterfly Valves
- Check Valves
- Isolation Valves

18. Fuel Storage & Distribution

- Butterfly Valves
- Check Valves

19. Gas Pipeline (custody transfer station)

- Butterfly Valves
- Check Valves
- Isolation Valves
- Drain Valves

11. LP Drum Deaerator

- Check Valves
- Isolation Valves
- Vent & Drain Valves

12. Process & Export Steam

- Check Valves
- Isolation Valves
- Vent & Drain Valves

13. Feed Water Distribution (HP, IP, LP)

- Butterfly Valves
- Check Valves
- Isolation Valves
- Metal Seated Ball Valves

14. Economizers (HP, IP, LP)

- Check Valves
- Isolation Valves
- Vent & Drain Valves
- Metal Seated Ball Valve

15. Flash Tank

- Check Valves
- Isolation Valves
- Vent & Drain Valves

16. SCR Storage & Injection

- Butterfly Valves
- Check Valves
- Isolation Valves

Coal-fired Power Plant

1. Drums
 Check Valves
 Isolation Valves
 Non-return Valves
 Vent & Drain Valves

2. Superheater
 Check Valves
 Isolation Valves
 Vent & Drain Valves

3. Reheater
 Check Valves
 Isolation Valves
 Extraction Check Valves
 Vent & Drain Valves

4. Steam Turbine w/ Condenser
 Drain Valves
 Extraction Check Valves
 Main Steam Isolation

5. Cooling Water Circulation
 Check Valves
 Isolation Valves
 Butterfly Valves
 Drain Valves
 Diaphragm Valves
 Polypropylene-Lined Pipe

6. Water Treatment
 Butterfly Valves
 Check Valves
 Isolation Valves
 Drain Valves
 Diaphragm Valves
 Polypropylene-Lined Pipe

7. Condensate Pumps
 Check Valves
 Isolation Valves
 Drain Valves

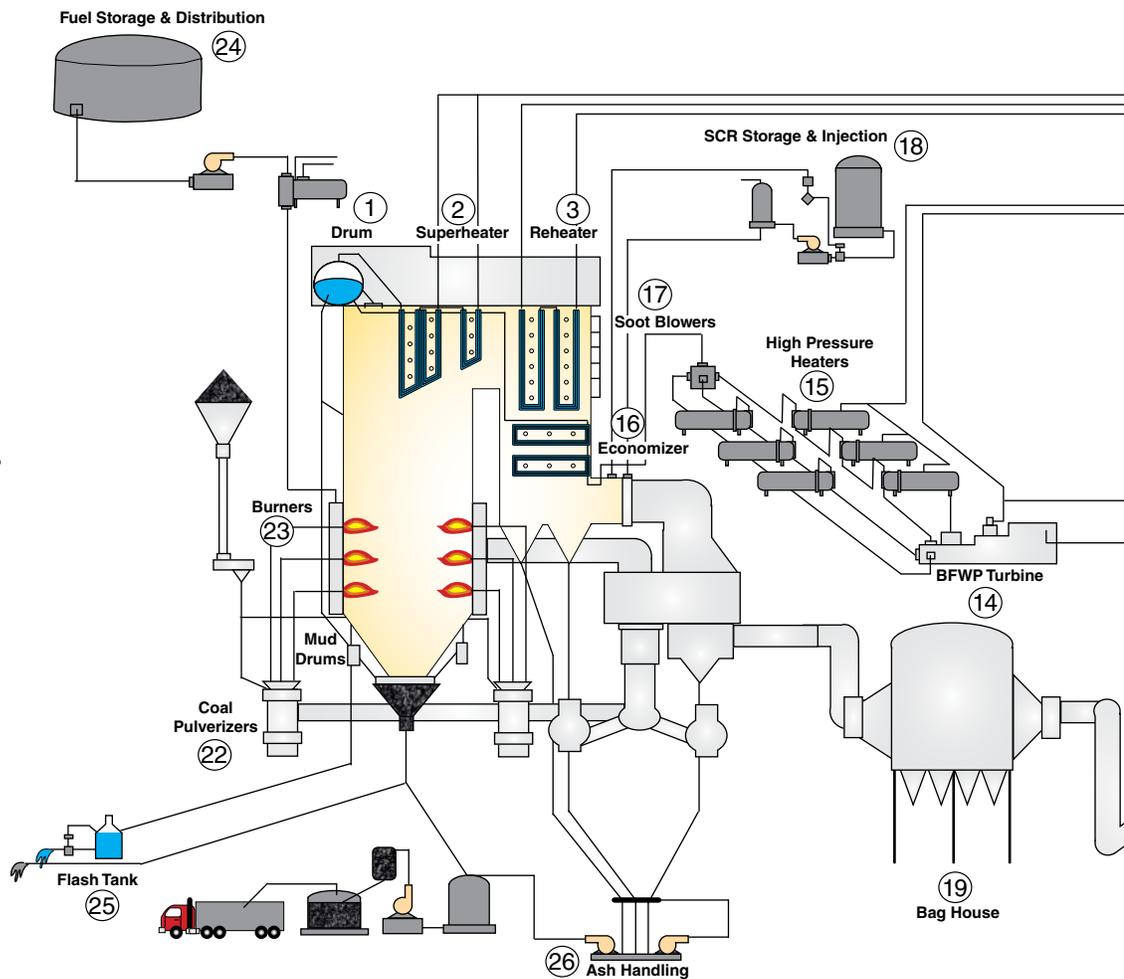
8. Heat Exchanger
 Check Valves
 Isolation Valves
 Vent & Drain Valves

9. Low Pressure Heaters
 Check Valves
 Isolation Valves

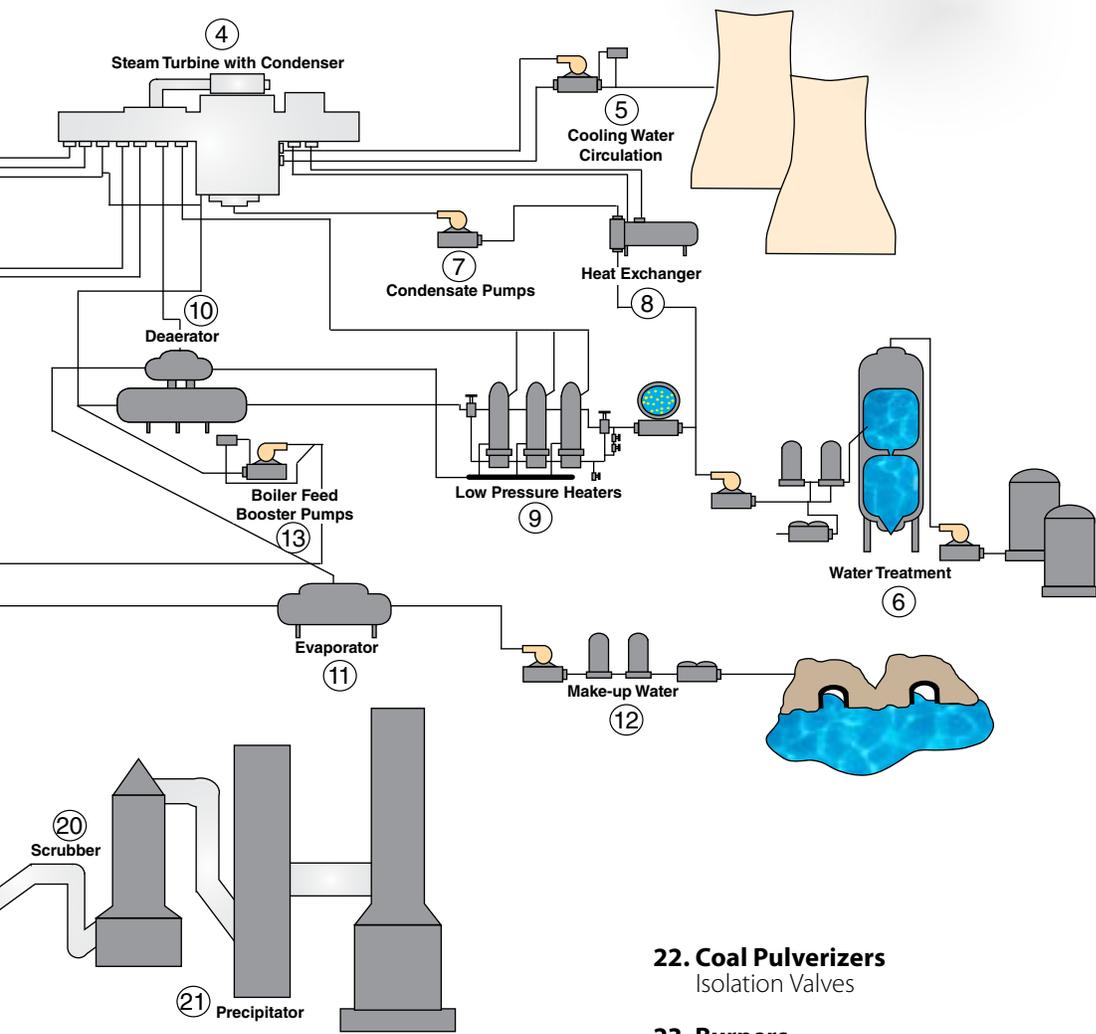
10. Deaerator
 Check Valves
 Isolation Valves
 Vent & Drain Valves
 Diaphragm Valves
 Polypropylene-Lined Pipe

11. Evaporator
 Check Valves
 Isolation Valves
 Vent & Drain Valves

12. Make-up Water
 Check Valves
 Isolation Valves
 Vent & Drain Valves
 Strainers
 Diaphragm Valves
 Polypropylene-Lined Pipe



Coal-fired Power Plant



13. Boiler Feed Booster Pumps
Check Valves
Isolation Valves

14. BFWP Turbine
Check Valves
Isolation Valves
Vent & Drain Valves

15. High Pressure Heaters
Check Valves
Isolation Valves
Extraction Check Valves
Vent & Drain Valves
Metal Seated Ball Valves

16. Economizer
Check Valves
Isolation Valves

17. Soot Blowers
Check Valves
Isolation Valves

18. SCR Storage & Injection
Check Valves
Isolation Valves

19. Bag House
Isolation Valves

20. Scrubber
Isolation Valves

21. Precipitator
Isolation Valves

22. Coal Pulverizers
Isolation Valves

23. Burners
Isolation Valves

24. Fuel Storage & Distribution
Check Valves
Isolation Valves

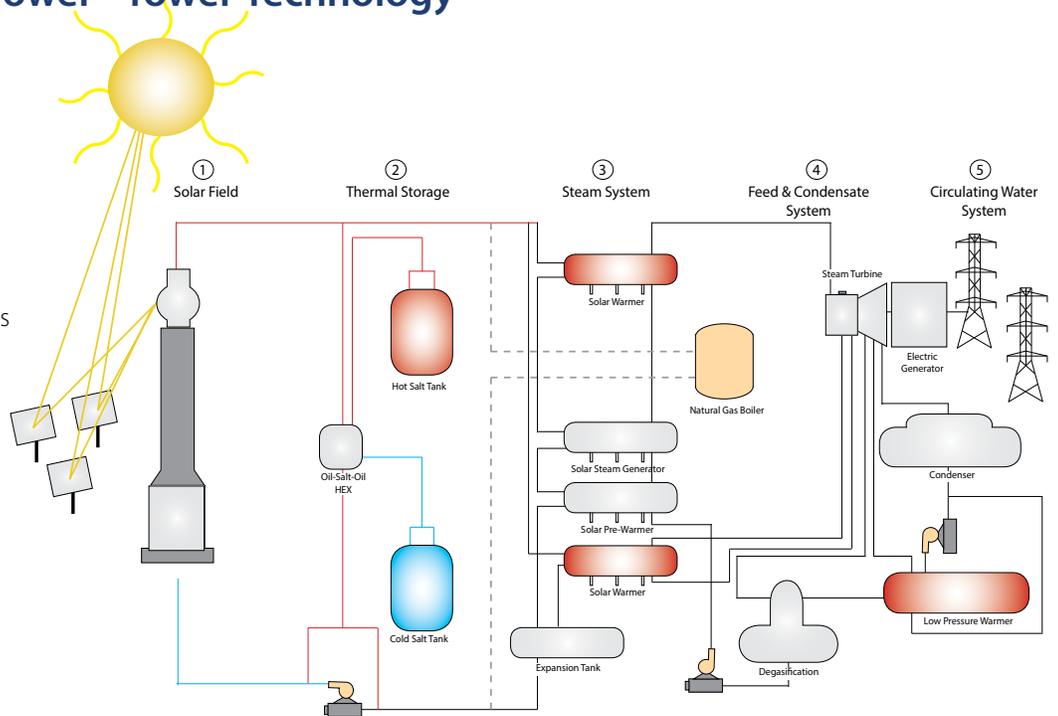
25. Flash Tank
Check Valves

26. Ash Handling
Isolation Valves
Diaphragm Valves
Polypropylene-Lined Pipe

Solar & Geothermal Power

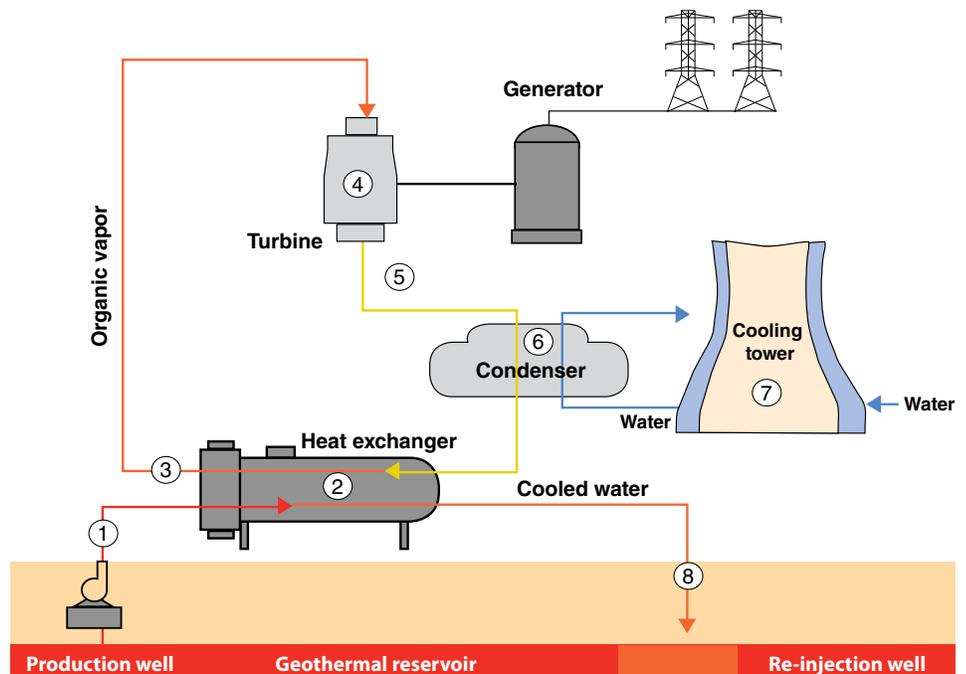
Concentrated Solar Power - Tower Technology

1. **Solar Field**
3-way Valves
Check Valves
Isolation Valves
2. **Thermal Storage**
Check Valves
Isolation Valves
3. **Steam System**
Check Valves
Cold Reheat Non-Return Check Valves
HP/HT Isolation Valves
Non-Return Valves
Vent & Drain Valves
4. **Feed & Condensate System**
Check Valves
Isolation Valve
5. **Circulating Water System**
Check Valves
Isolation Valves
Polypropylene-Lined Pipe

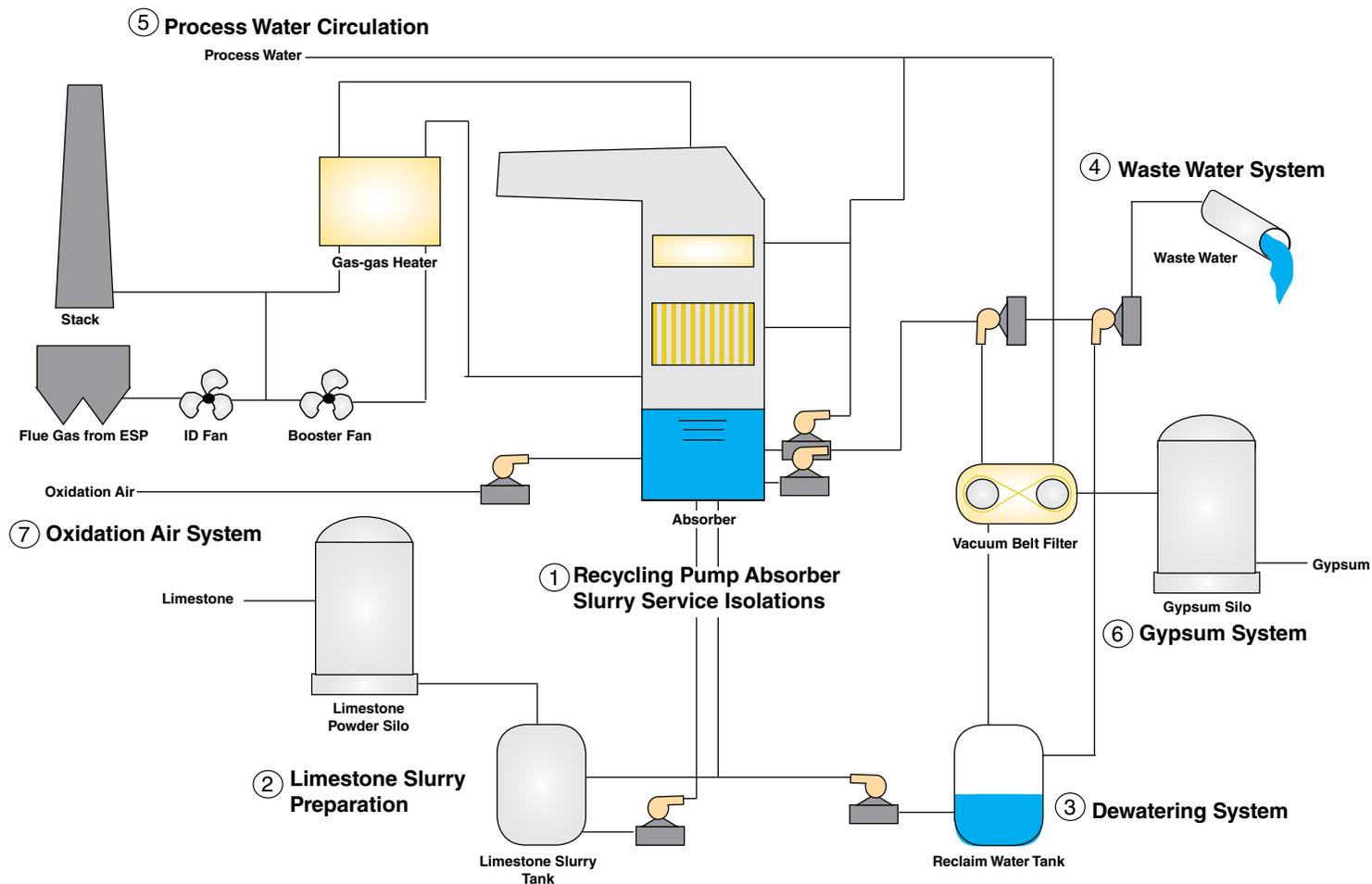


Geothermal Power Binary Cycle

1. **Production Wells**
Butterfly valves
Gate, Globe and Check
2. **Heat Exchanger**
Isolation valves
Gate, Globe and Check
3. **Organic Vapor**
Butterfly valves
Gate, Globe and Check
4. **Steam Turbine**
Extraction check valves
Bypass valves
Drain Valves
Vent Valves
5. **Outlet Steam Pipe Steam Turbine**
Butterfly valves
Gate, Globe and Check
6. **Condenser**
Butterfly Valves
7. **Cooling Tower**
Isolation valves
Drain Valves
Polypropylene-Lined Pipe
8. **Injection Wells**
Butterfly valves
Gate, Globe and Check



Wet Flue Gas Desulfurization



1. Recycling Pump - Absorber
Slurry Service Isolation Valves

2. Limestone Slurry Preparation
Butterfly Valves
Diaphragm Valves
Polypropylene-Lined Pipe

3. Dewatering System
Butterfly Valves
Diaphragm Valves
Polypropylene-Lined Pipe

4. Waste Water System
Butterfly Valves
Diaphragm Valves
Polypropylene-Lined Pipe

5. Process Water Circulation
Butterfly Valves
Ball Valves
Diaphragm Valves
Polypropylene-Lined Pipe

6. Gypsum System
Butterfly Valves
Diaphragm Valves

7. Oxidation Air System
Butterfly Valves

Isolation Valves Pressure Seal

Pressure Seal Gate

Brand: Aloyco, Crane, Krombach, Pacific

ASME Class: 600 - 4500

Sizes: 2½" - 36"

DN: 65 - 900

Materials: Carbon Steel, Stainless Steel & Alloy. Cast and Forged

Connections: Weld End, Flanged, Venturi

Features & Benefits:

- Gate valves offered in two designs: parallel disc and flexible wedge
- Provides superior shutoff service for your high pressure and temperature applications
- The parallel disc gate valve eliminates excessive leakage, thermal binding and maintenance with:
 1. Spring-loaded discs that seal with differential pressure and self adjust for thermal growth and pipe stresses – the higher the differential pressure the tighter the seal
 2. Integrally cast body stops that eliminate over travel and prevent wire drawing or steam cutting of seats
 3. Fully guided carrier assembly which is position seated rather than torque seated
 4. Parallel seating components that are hard-faced and self cleaning, ensuring extended life
 5. Lower torque requirements allowing smaller actuation packages
 6. Easy in-line repair and fitting



Pressure Seal Globe

Brand: Aloyco, Crane, Krombach, Pacific

ASME Class: 600 - 4500

Sizes: 8" - 24" (Y-Globe) 2"-12" (T-Globe)

DN: 65 - 600

Materials: Carbon Steel, Stainless Steel & Alloy. Cast & Forged

Connections: Weld End, Flanged, Venturi

Features & Benefits:

- Available in both y-pattern and t-pattern, as well as both globe stop and stop-check (non-return) configurations, bodies with streamlined flow path to minimize pressure drop
- Fully body-guided discs for perfect seating in high pressure service
- Disc, seat rings, and backseat have hardened surfaces for maximum service life
- Stainless steel, precision ground stems to minimize packing friction
- Two-piece, self-aligning glands
- Fully fabricated yokes designed to withstand seismic activity, while offering easy maintenance and actuator mounting
- Hammerblow handwheel standard
- Best in class flow characteristics (Cv) for Y-Globe valves



Isolation Valves Bolted Bonnet

Bolted Bonnet Gate

Brands: Aloyco, Crane, Krombach, Pacific

ASME Class: 150 - 1500

Sizes: 2" - 36"

Materials: Carbon Steel, Stainless Steel, Alloy

Connections: Weld End, Flanged, Threaded

Features & Benefits:

- Body is cast with straight through ports to minimize turbulence, erosion and pressure drop are minimized
- Seat rings are seal welded to eliminate leak path behind rings and for long trouble-free service
- Our one piece flexible disc provides accurate alignment of mating seating surfaces so the valve can absorb piping strains without leakage and avoids any tendency to stick in the seated position
- Packing contains corrosion inhibitor to avoid stem pitting
- Stuffing box is deep, assuring long packing life
- Gland Eyebolts swing aside for ease in repacking the stuffing box
- API 624 available



Bolted Bonnet Globe

Brands: Aloyco, Crane, Krombach, Pacific

ASME Class: 150-1500

Sizes: 2" - 24"

Materials: Carbon Steel, Stainless Steel, Alloy

Connections: Weld End, Flanged

Features & Benefits:

Available in globe stop configurations. Our globe valves are designed for services requiring frequent operation and throttling when pressure drop across the valve is about 20% of inlet pressure.

- Body is designed with heavy sections reinforced at points subjected to the greatest stress
- Seat ring welded in to eliminate leak path in cast steel design
- Disc stem ring connects the disc to the stem, permitting the disc to swivel and aid in securing tight seating for trouble-free service
- Gland eyebolts are securely fastened to the bonnet yet swing away to permit easy access to the stuffing box
- API 623 available



Flow Reversal Protection Valves

Pressure Seal Check

Brand: Aloyco, Crane, Krombach, Pacific

ASME Class: 600 - 3500

Sizes: 2 1/2" - 36"

DN: 65 - 900

Materials: Carbon Steel, Stainless Steel, Alloy

Connections: Weld End, Flanged

Valve Types:

Swing Check, Tilting Disc (Non-Slam), Y-Pattern Lift, and T-Pattern Lift Configurations

- The tilting disc check valve uses gravity to rapidly close the disc upon flow reversal (Non-Slam)
- Valve design fully opens or closes through an arc of only 45 degrees, (unlike most other tilting disc check valves which must swing through a 90 degree arc)
- Conical seating is self aligning, tight, and always closed in a no-flow situation
- Hard-faced seating surfaces, large diameter hinge pins, and corrosion resistant bearing surfaces ensure long life, and an internal disc stop prevents flutter
- The internal disc hanger provides adjustable alignment and eliminates body wall penetrations



Bolted Bonnet Swing Check

Brands: Aloyco, Crane, Krombach, Pacific

ASME Class: 150-1500

Sizes: 2" - 36"

Materials: Cast Iron, Carbon Steel, Stainless Steel, Alloy, Forged Steel

Connections: Weld End, Flanged

Features & Benefits:

- Used to prevent reversal of flow in horizontal pipe lines
- There is no tendency for the seating surfaces to gall or score, because the disc meets the flat seat squarely without rubbing contact upon closing
- Can be furnished with outside lever and adjustable weight in certain sizes, to assist in closing the valve more rapidly, thus minimizing reversal of flow and resultant surge and shock
- With the lever and weight mounted to balance the weight of the disc, the valve becomes more sensitive to low flow velocities



Flow Reversal Protection Valves

Nozzle Check (Compact & Full Body)

Brands: Compac-Noz, Noz-Chek

ASME Class: 150 - 4500

Sizes: 2" - 84"

DN: 50 - 2100

Materials: Ductile Iron, Carbon Steel, Stainless Steel, Alloy

Connections: Flanged, Hub-End, Weld-End

Standards: ASME, DIN, JIS

Features & Benefits:

- Engineered and sized for the application, not the line size
- One piece body casting (no body penetration, no fugitive emission to atmosphere)
- One moving part resulting in minimum wear and long life
- Short stroke length resulting in quick dynamic response and minimizing the reverse velocity through the valve, thus preventing water hammer risks
- Suitable for reciprocating compressor service (removal of chatter effects frequently associated with conventional check valves)
- Stable behavior due to the Venturi type design, the opening characteristics ensure a fully opened check valve
- Choice of spring torques to suit critical velocity systems and improve valve response time
- Anti-spinning device to stabilize disc
- Tight shut-off
- Maintenance free design



Dual Plate Check

Brands: Duo-Chek

ASME Class: 125 - 4500

Sizes: 2" - 84"

DN: 50 - 2100

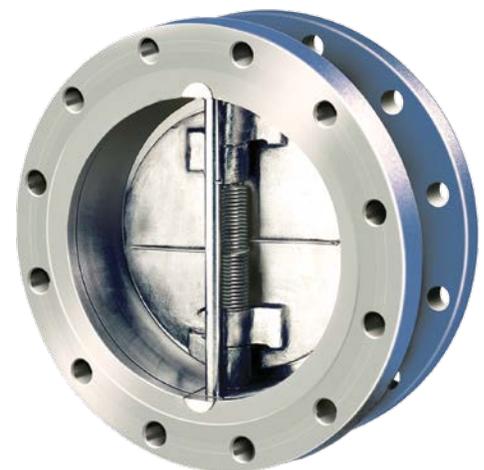
Materials: Cast Iron, Bronze, Carbon Steel, Stainless Steel, Alloy

Connections: Wafer, Lugged, Flanged

Standards: ASME, DIN, JIS, AS

Features & Benefits:

- Lightweight & compact compared to the traditional swing check valve
- Spring assisted closure (independent spring design), plates are more responsive to changes in flow conditions
- Faster response time improved by the use of independent springs and support sleeves, minimizes water hammer risks for non slam applications
- Retainerless design available (no fugitive emission to atmosphere, valve is inherently fire-safe)
- Choice of spring torques to suit critical velocity systems and improve valve response time



Special Application Valves

Resilient-Seated Concentric Butterfly

Brands: Center Line, CRANE, Krombach

ASME Class: 150 CWP

Sizes: 1½" - 54"

DN: 40 - 1350

Materials: Cast Iron, Ductile Iron, Carbon Steel, Stainless Steel

Body Styles: Wafer, Lugged, Double Flanged

Features & Benefits:

- Qualified for both gaseous and liquid service
- Positive shut-off bi-directionally
- Phenolic backed cartridge seat
- PTFE bushing standard
- Locking handle standard (2"-12")
- End of line service standard on lug style
- Ease of automation
- Field repairable (2"-24")
- Complete size range: 1½" - 54"



High Performance Butterfly

Brands: Flowseal, Xomox

ASME Class: 150 - 600

Sizes: 2" - 48"

DN: 50 - 1200

Materials: Carbon Steel, Stainless Steel & Alloy

Body Styles: Wafer, Lugged (Double Dead End)

Features & Benefits:

- Soft seat design provides bubble tight shut-off
- Metal seated; ASME Class IV Leakage
- Wafer and lug body styles
- Firesafe, Meets API 607, Rev. 4
- MSS-SP-68
- Unparalleled service in vacuum-to-low pressure



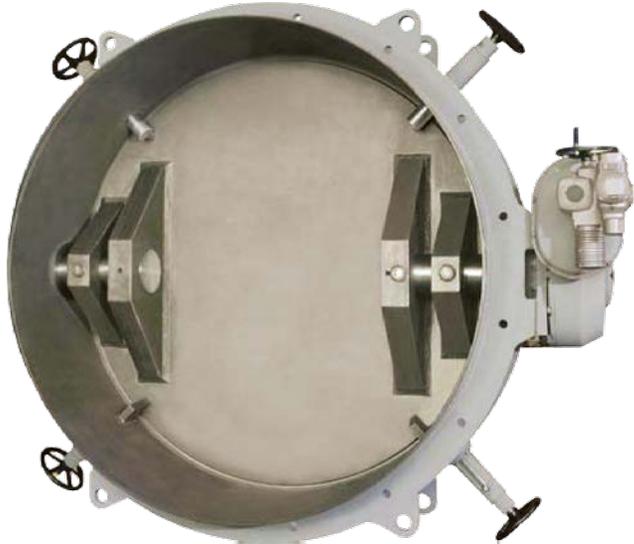
Special Application Valves

Double Eccentric Butterfly

Brands: Krombach
ASME Class: 150 - 600
PN: 10 - 40
Sizes: 4" - 136"
DN: 100 - 3400
Materials: Ductile Iron, Carbon Steel
Body Styles: Double Flanged Short or Long Pattern, Custom Ends

Features & Benefits:

- Fabricated body, resilient seated
- Soft seat design provides tight shut-off
- Optimal flow profile of disc
- Hard rubber coating for heavy duty installations possible



Triple Offset

Brands: CRANE®FKX 9000
ASME Class: 150, 300
PN: 10 - 100
Sizes: 3" - 96"
DN: 80-600
Materials: Carbon Steel, Stainless Steel, Special Materials
Body Styles: Lug, Double Flanged Short or Long

Features & Benefits:

- Optimized seat angle design and Stellite® hard-faced valve body seat deliver a longer seal life and improved abrasion resistance
- Metal-to-metal sealing to deliver reliable and bidirectional shutoff in high-temperature, high-pressure, severe service applications, etc.
- Innovative stem seal design
- Fugitive emissions tested: ISO 15848
- Torque-seating self-adjusts to evenly distribute seal compression
- A "floating" seal ring and wide seal ring supporting gasket eliminate binding and enhance performance



Note: special configuration Turbine Trip & Throttle Valve with customized quick-closing actuation package.

Special Application Valves

Extraction Check / Cold Reheat Non-Return Check Valves

Brand: Krombach

ASME Class: 150 - 300

PN: 16 - 40

Sizes: 6" - 72" (others upon request)

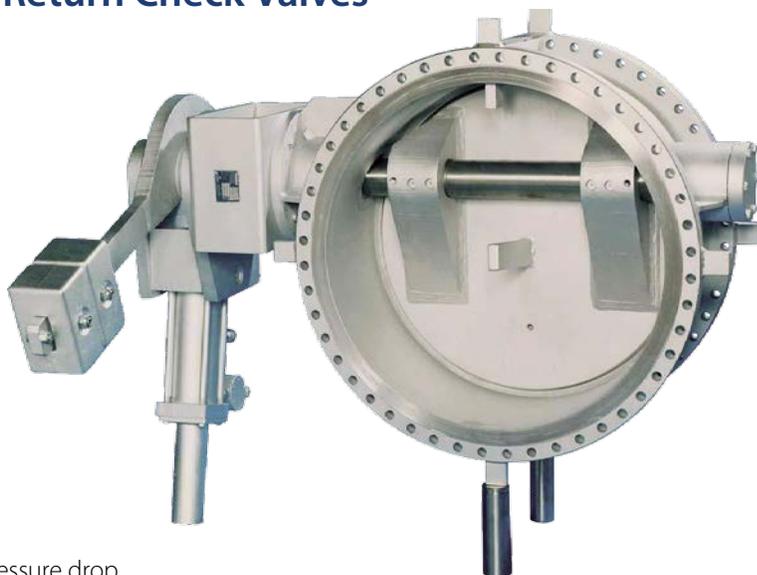
DN: 150 - 1800 (others upon request)

Materials: Carbon Steel, Stainless Steel

Connections: Double Flanged, Weld Ends

Optional Features:

- Fabricated design
- Free swinging disc
- Hardened seating surfaces
- Canted seat angle
- Hardened bushings
- Graphite packing
- Counterweights & actuation packages available
- Customized seat diameter & disc thickness to minimize pressure drop
- Special face-to-face dimensions, flanges, and materials available
- Special approvals (ASME, CRN, IBR)



Industrial Diaphragm Valve

Brands: Saunders

Sizes: ½" - 20"

Class: ASME 125-150

DN: 15-500

Materials: Cast Iron, Ductile Iron, Cast Steel, Stainless Steel, Gunmetal

Linings: Glass, Rubber, Plastic

Diaphragm: Rubber, PTFE

Operation: Manual, Pneumatic, Electric, Hydraulic

Connections: Flanged, Threaded

Body Style: Weir or straight through types

Features & Benefits:

- The Science Inside®: Proprietary diaphragm technology provides unique sealing solution and complete emissions control.
- Unmatched Expertise & Innovation: Comprehensive selection of polymers delivers superior corrosion and abrasion resistance for a wide range of demanding applications, since 1928.
- Efficient Operation: Top entry design enables in-line maintenance capability to reduce plant down-time.



Polypropylene-Lined Pipe and Fittings



Brand: Resistoflex
ASME Class: 150, 300
Sizes: 1" – 12"
DN: 25 – 300
Materials: Carbon Steel, Stainless Steel
Connections: Flanged

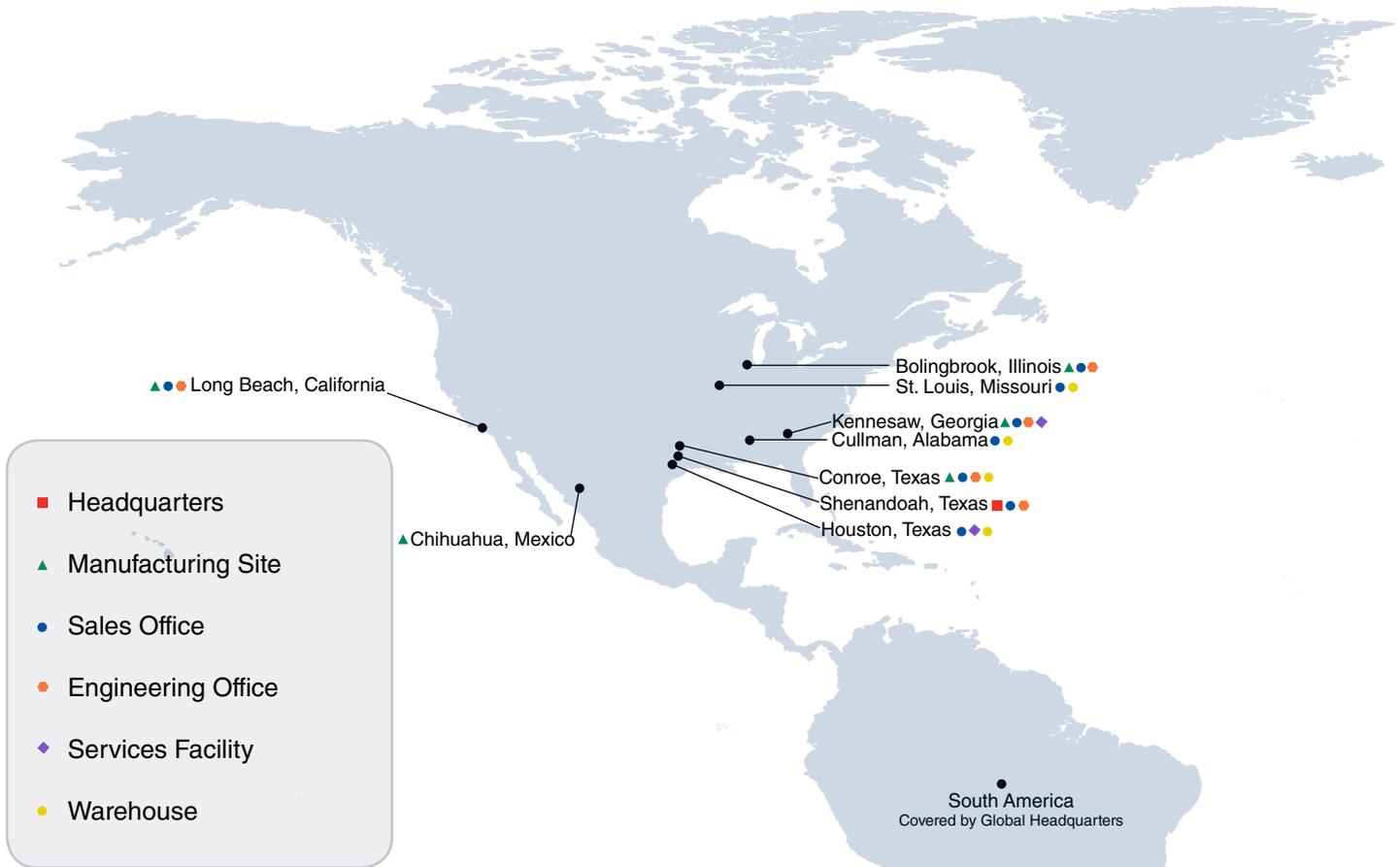
Features and Benefits:

- Pipe and fittings liners have a heavy wall thickness and are made from raw resin at our North Carolina manufacturing facility.
- Pipe and fittings are rated for continuous full vacuum service up to 225°F
- The Resistoflex Thermalok™ process locks the plastic liner in the metal housing, resulting in the liner and metal housing acting as one monolithic unit, even during frequent thermal cycling. Inherently stiff liner remains tight against the housing interior throughout its lifespan.
- Polypropylene has shown good abrasion resistance on fine slurries, such as fly ash. Third party testing indicates that Resistoflex Polypropylene liners will outperform rubber liners by a factor of four, giving enhanced service life.
- Resistoflex Polypropylene lined pipe and fittings are delivered to site ready to bolt-up, with no expensive, time-consuming, or equipment-dependent fabrication procedures.
- Polypropylene has excellent chemical resistance to a broad spectrum of acids and caustics.
- Good release properties to fight scale buildup
- Weld free construction reduces NDE costs.
- Straight lengths available up to 20 ft.
- Resistoflex pipe and fittings comply with the requirements of ASME B31.3 and ASTM F1545-15a



Special Configurations Available with ETFE or PVDF Liner

Global Coverage



Major Sales Offices

AMERICAS

United States

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Fax: +49-211-59-56-111

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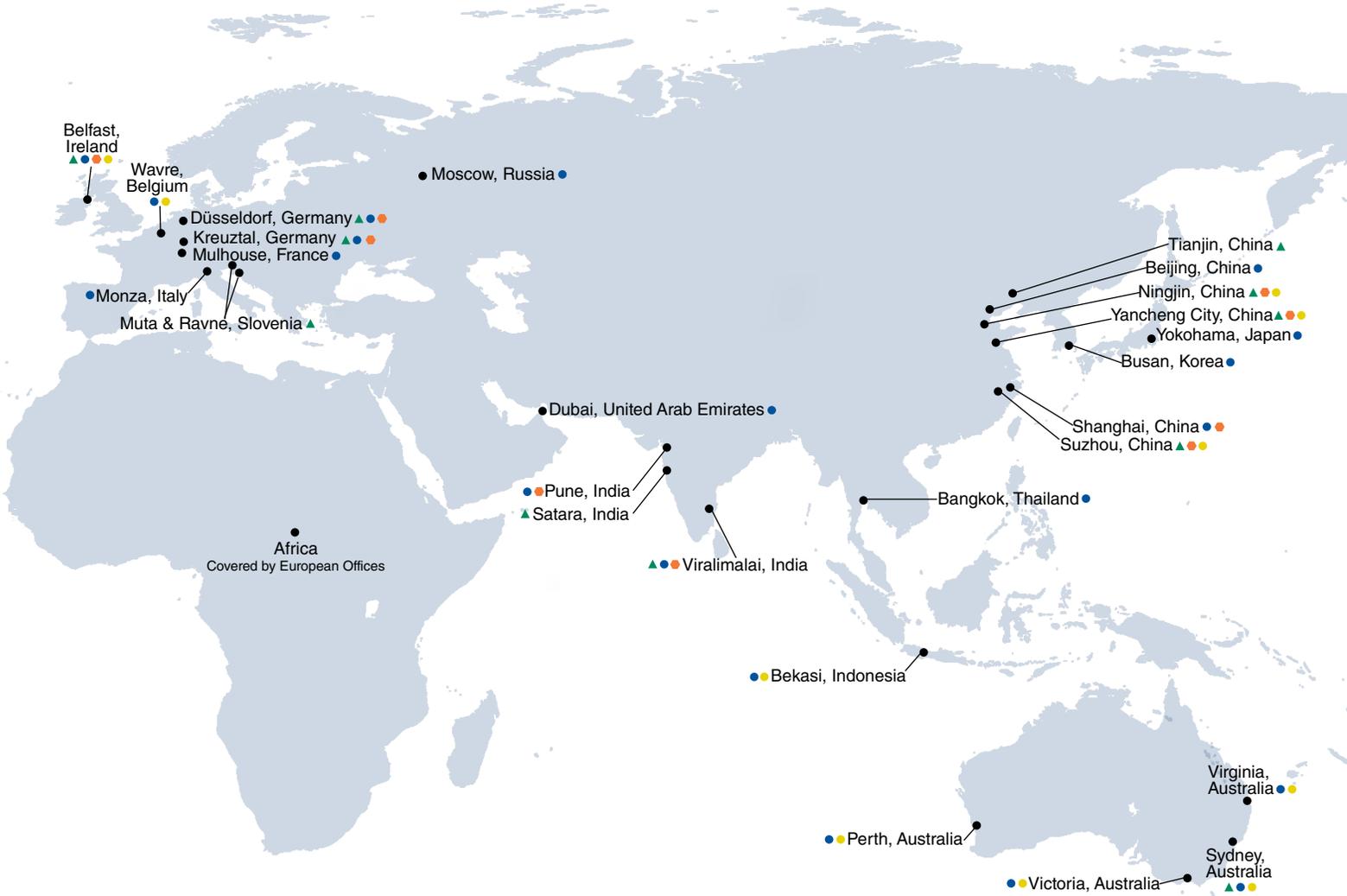
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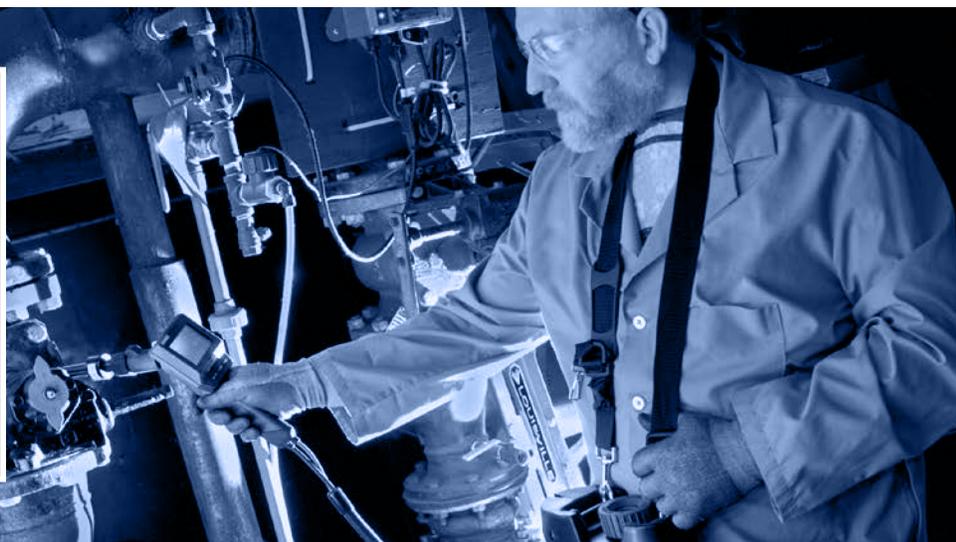


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