



PRODUCT APPLICATION GUIDE

SEPTEMBER 2023





WHO WE ARE

Kimray is a world-class manufacturer of oil and gas control equipment based in Oklahoma City, Oklahoma, USA. Since 1948, Kimray has been creating simple, effective products for a wide range of applications in temperature, level, flow, and pressure control for production equipment.

Kimray products are known for being reliable, easy to operate, and low maintenance. Common applications for Kimray products include compression, gas dehydration, gas sweetening, separation, heaters, artificial lift, gas regulation skids, measurement stations and more.

Buying from Kimray is about much more than the product. The relationships between Kimray representatives and our customers extend from before the sale through the life of the product. Those relationships, along with quality Kimray products, are the result of a company striving for excellence for our customers, our company and our community.

Visit Kimray.com to learn more about our company and the products we create.



TABLE OF CONTENTS

FEATURED APPLICATIONS

Vertical Separator, Low Pressure, Pneumatic, 2-Phase	4
Vertical Separator, Low Pressure, Mechanical, 2-Phase	6
Vertical Separator, Low Pressure, Electric, 2-Phase	8
Vertical Separator, High Pressure, Pneumatic, 3-Phase	10
Vertical Separator, High Pressure, Electric, 3-Phase	12
Horizontal Separator, High Pressure, Pneumatic, 3-Phase	14
Horizontal Separator, Low Pressure, Mechanical, 3-Phase	16
Heater Treater, Mechanical & Pneumatic	18
Heater Treater, Mechanical & Electric	20
Compressor, Low Pressure, Pneumatic	22
Compressor, High Pressure, Pneumatic	24
Dehydrator, Pneumatic	26
Dehydrator, Electric	28
Free Water Knockout, Mechanical, 2-Phase	30
Free Water Knockout, Mechanical & Pneumatic, 3-Phase	32
Line Heater, Pneumatic	34
Plunger Lift, Electric	36
Gas Production Unit	38
Injection Gas	40
Blanket Gas	49

FEATURED KIMRAY PRODUCTS

3 PMB Pilot mounted on a Float Operated Trunnion Cover	32
Adjustable Double-Acting Low Pressure Control Valve	22, 26
Back Pressure Regulator	4, 6, 16, 18, 22, 26
Back Pressure Regulator Package	10, 14, 24, 26
Differential Pressure Regulator	22
Double-Acting Low Pressure Control Valve	18, 26, 34, 44
E-LO Control Valve	20, 28
Electric Actuator, Kimray	8, 12, 20, 28, 38, 42, 46
Electric Actuator, Tritex II	8, 12
Electric Actuator, Valcon with R2L Adapter	8, 12, 38, 46
Electric Glycol Pump	28
Electric Level Switch	28
Electric Pilot	8, 12, 20, 38, 40, 42, 46
Energy Exchange Glycol Pump	26
Gen 3 Liquid Level Controller	4, 10, 14, 22, 26, 44
High Pressure Control Valve	10, 14, 24, 26
High Temperature Shut-Down	26, 34
Liquid Dump Valve	6, 16, 30
Low Pressure High Volume Valve	32
Low Pressure Back Pressure Regulator	48

ALL VESSELS, PIPING, SKIDS, ETC. THAT ARE GRAYED OUT ARE SHOWN FOR REFERENCE ONLY. KIMRAY DOES NOT SELL THESE ITEMS.

Mini Scrubber	36
Pilot Guard	26, 34
Pneumatic Liquid Level Switch	10, 14, 18, 22, 24, 26, 34, 44
Pneumatic Liquid Dump Valve	4, 32
Pressure-Reducing Balanced Regulator	22
Pressure-Reducing Regulator Package	24
Spring-Loaded Back Pressure Regulator	30, 32
Supply Gas Regulator	22, 24, 26, 34, 44
T-Body High Pressure Control Valve	10, 14, 36, 40, 44
T-Body High Pressure Control Valve Package	40
Temperature Controller	18, 26, 34, 44
Topworks used with Plunger Catcher	36, 40
Trunnion Assembly	6, 16, 30, 32
Weight Operated Dump Valve	18, 20, 32

**Final temperature and pressure are dependent upon material options. Contact your Kimray sales representative for more information.*



GEN 3 LIQUID LEVEL CONTROLLER

Pneumatically controls the liquid level within a vessel.

Pressure Rating: 4000 psig
Temperature Range: -20° to 450° F
Connections: NPT, Flanged, Hammer Union



PNEUMATIC LIQUID DUMP VALVE

Used as an oil or water valve for separators, meters, and water knockouts where a reduced signal pressure is available.

Size: 2" to 6"
Pressure Rating: 500 psig
Temperature Range: -20° to 450° F
Material: Ductile, WCB
Connections: NPT, Flanged

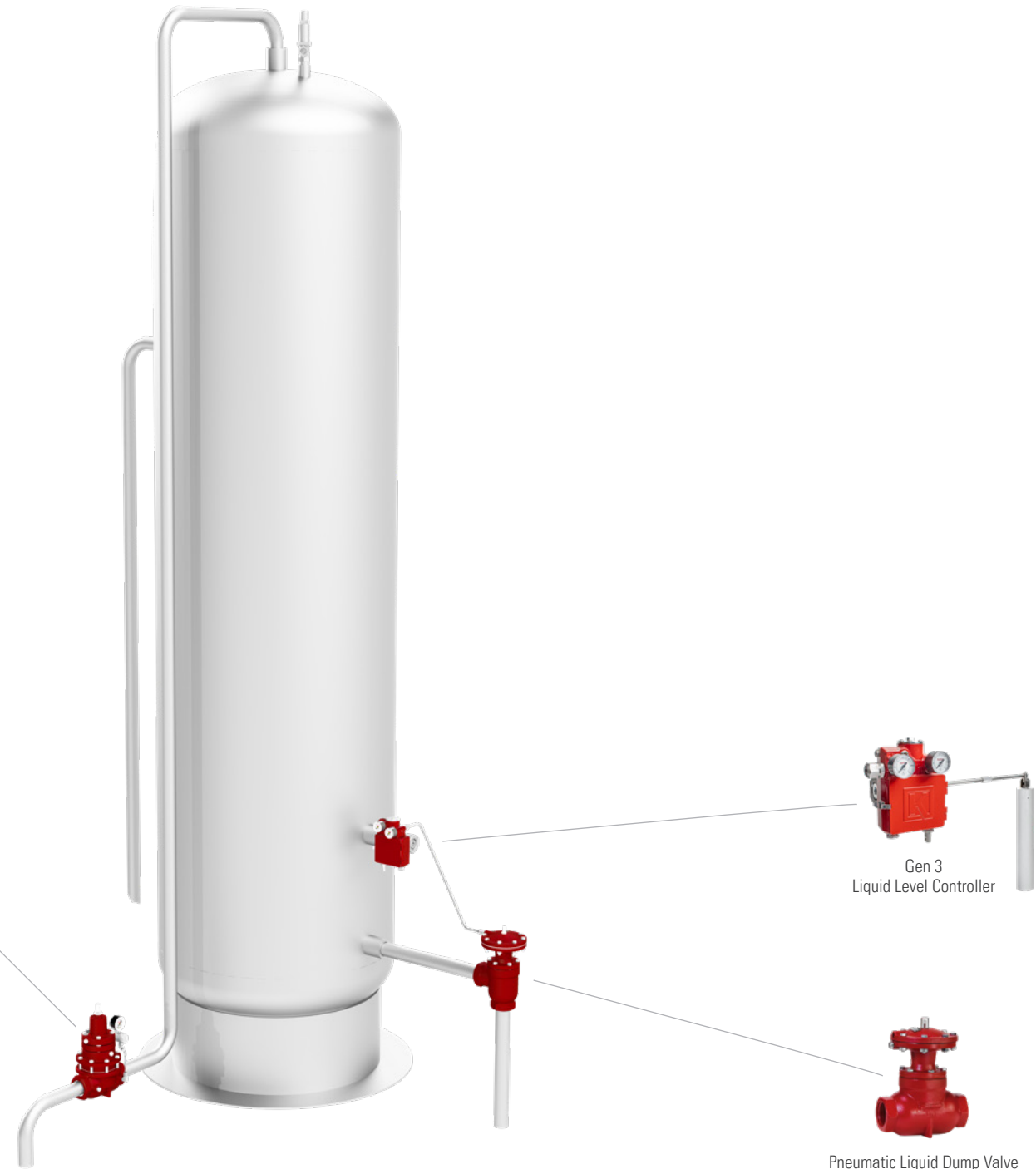


BACK PRESSURE REGULATOR

Maintains constant pressure in the vessel. Uses upstream gas to operate.

Size: 1" to 6"
Pressure Rating: 300 psig
Control Range: 10 to 300 psig
Temperature Range: -20° to 450° F
Material: Ductile, WCB
Connections: NPT, Flanged, Grooved

- Non-Vent Options Available
- Outside Supply Option Available





TRUNNION ASSEMBLY

Transfers force to a mechanical valve based on the liquid level.

- Size:** 6" to 10"
- Pressure Rating:** 500 psig
- Temperature Range:** -20° to 450° F
- Material:** Ductile, WCB
- Connections:** Hammer Union, Flanged



LIQUID DUMP VALVE

Uses a mechanical lever to remove all types of liquid from the vessel.

- Size:** 2" to 6"
- Pressure Rating:** Up to 500 psig
- Temperature Range:** -20° to 450° F
- Material:** Ductile, WCB
- Connections:** NPT, Flanged



BACK PRESSURE REGULATOR

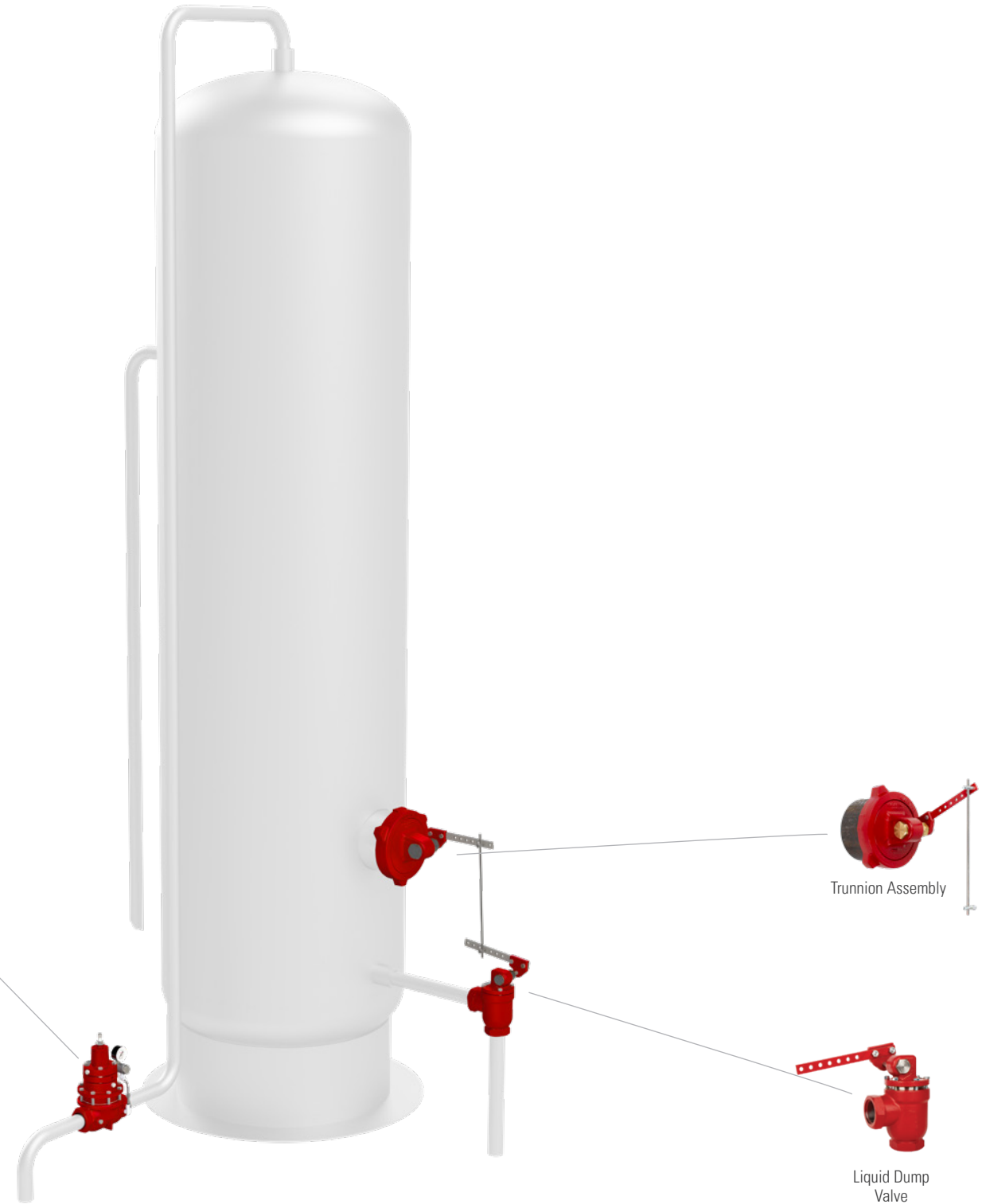
Maintains constant pressure in the vessel. Uses upstream gas to operate.

- Size:** 1" to 6"
- Pressure Rating:** 300 psig
- Control Range:** 10 to 300 psig
- Temperature Range:** -20° to 450° F
- Material:** Ductile, WCB
- Connections:** NPT, Flanged, Grooved

- Non-Vent Options Available
- Outside Supply Option Available

Coal Bed Methane Application - Kimray has helped pioneer coal seam gas production with producers across the United States, India, and Australia. Coal Seam Gas recovery, also called Coal Bed Methane production, is a method of recovering gas stored in coal.

ZERO EMISSIONS APPLICATION
 *only if non-vent Back Pressure Regulator is used





ELECTRIC PILOT

Provides precise valve regulation for flow control.

Features: PID for direct or indirect control, PID auto-tune, ON-OFF control for shutdown applications, low power, Class I, Div. 1 explosion-proof rating, discrete I/O

Input voltage: 10-30 VDC

Communication: MODBUS RS-485

Analog input: 4-20mA from sensor

Analog output: 4-20mA to valve actuator

OTHER OPTIONS



VALVCON ELECTRIC ACTUATOR SHOWN WITH R2L ADAPTER

Features: Open-yoke design, standard coupling block and mounting hardware to valve, weather-tight, maintenance free design

Size: 1" and 2"



TRITEX II ELECTRIC ACTUATOR

Voltage: 12-48 VDC

Rating: Class 1, Division 2 groups A, B, C, & D

Speed: Up to 5"/sec.

Stroke: 3" max



ELECTRIC ACTUATOR

Provides efficient, zero-emission control.

Voltage: 12-24VDC

Rating: Class 1 Zone 1

Speed: Up to 1/2" per second

Bottom Works: 1" - 10"

Connections: (2) 1/2" NPT (2) 3/4" NPT

Max LBF: 2300lbs

T-Body HPCV available for erosive applications



Electric Pilot





GEN 3 LIQUID LEVEL CONTROLLER

Pneumatically controls the liquid level within a vessel.

Pressure Rating: 4000 psig
Temperature Range: -20° to 450° F
Connections: NPT, Flanged, Hammer Union



PNEUMATIC LIQUID LEVEL SWITCH

This snap-acting stainless steel switch has a seal-less design, isolating liquids from the pneumatics.

Pressure Rating: 2000 psig
Temperature Range: -20° to 450° F
Maximum Supply Pressure: 75 psig
 ⚡ Electric Options Available



HIGH PRESSURE CONTROL VALVE

Functions as a snap liquid dump valve or a throttle control valve.

Size: 1" to 10"
Pressure Rating: 1": Up to 6000 psig
 2": Up to 6170 psig
 3" to 10": Up to 1440 psig
Temperature Range: -20° to 450° F
Material: WCB
Connections: NPT, Flanged



BACK PRESSURE REGULATOR PACKAGE

Maintains constant pressure in the vessel. Uses upstream gas to operate.

Size: 1" to 10"
Pressure Rating: 1": Up to 6000 psig
 2": Up to 6170 psig
 3" to 10": Up to 1440 psig
Control Range: vacuum to 2500 psig
Temperature Range: -20° to 450° F
Material: WCB
Connections: NPT, Flanged



T-BODY HIGH PRESSURE CONTROL VALVE

Used as a snap liquid dump valve or a throttle liquid control valve in erosive applications.

Size: 2"
Pressure Rating: Up to 6000 psig
Temperature Range: -15° to 450° F
Material: WCB
Connections: NPT, Flanged



Pneumatic Liquid Level Switch



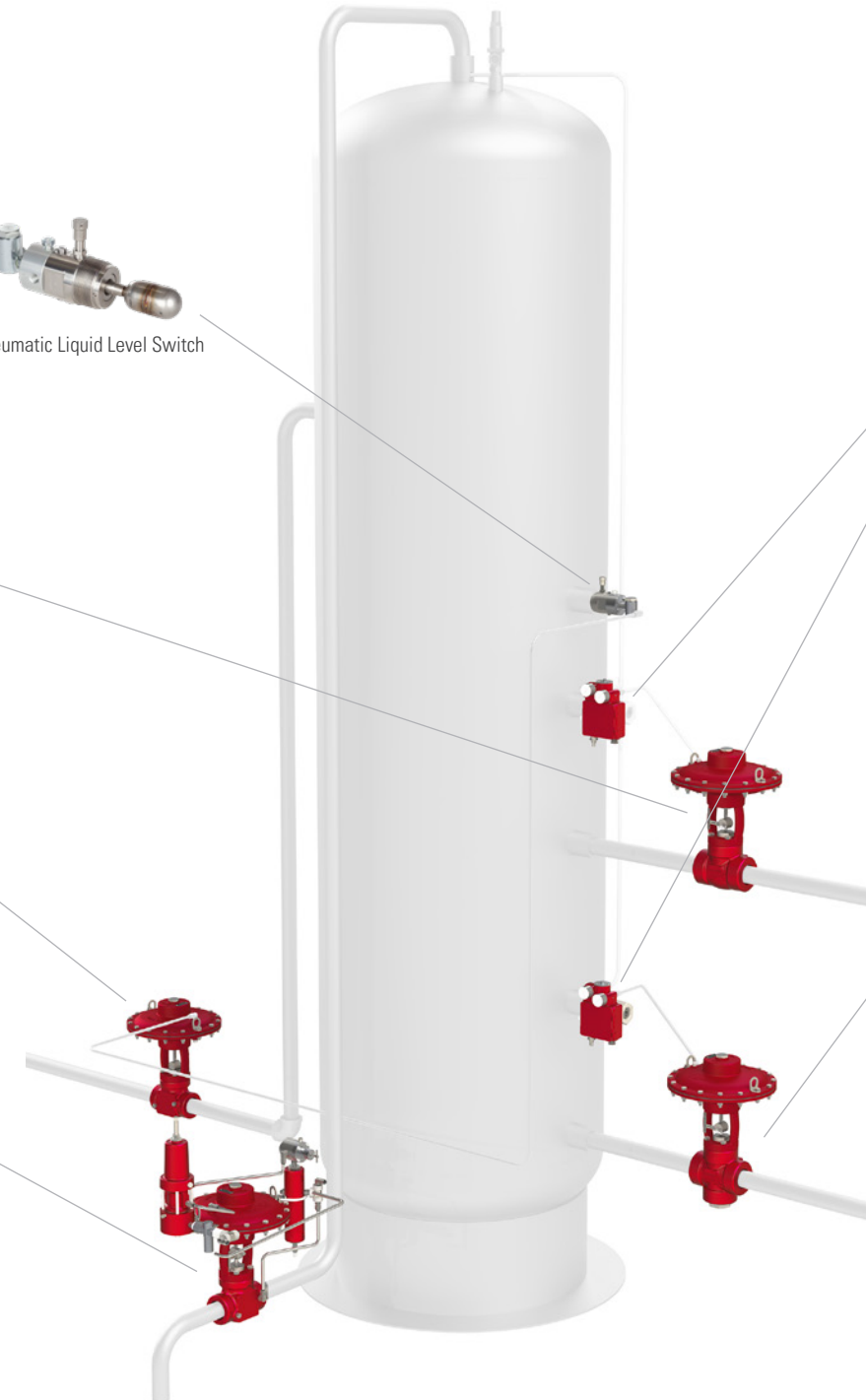
Gen 3 Liquid Level Controller



Back Pressure Regulator Package



T-Body HPCV





ELECTRIC PILOT

Provides precise valve regulation for flow control.

Features: PID for direct or indirect control, PID auto-tune, ON-OFF control for shutdown applications, low power, Class I, Div. 1 explosion-proof rating, discrete I/O

Input voltage: 10-30 VDC

Communication: MODBUS RS-485

Analog input: 4-20mA from sensor

Analog output: 4-20mA to valve actuator

OTHER OPTIONS



VALVCON ELECTRIC ACTUATOR SHOWN WITH R2L ADAPTER

Features: Open-yoke design, standard coupling block and mounting hardware to valve, weather-tight, maintenance free design

Size: 1" and 2"



TRITEX II ELECTRIC ACTUATOR

Voltage: 12-48 VDC

Rating: Class 1, Division 2 groups A, B, C, & D

Speed: Up to 5"/sec.

Stroke: 3" max



ELECTRIC ACTUATOR

Provides efficient, zero-emission control.

Voltage: 12-24VDC

Rating: Class 1 Zone 1

Speed: Up to 1/2" per second

Bottom Works: 1" - 10"

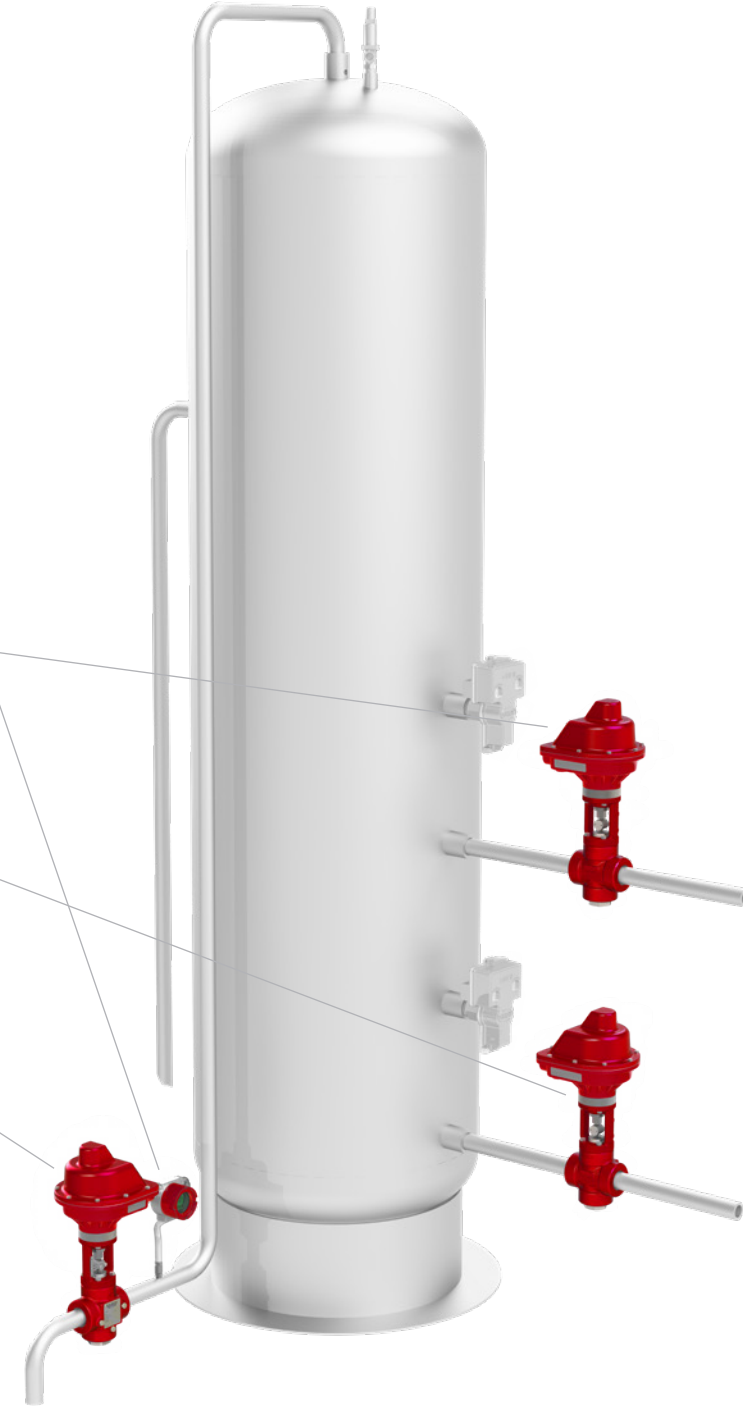
Connections: (2) 1/2" NPT (2) 3/4" NPT

Max LBF: 2300lbs

T-Body HPCV available for erosive applications



Electric Pilot





GEN 3 LIQUID LEVEL CONTROLLER

Pneumatically controls the liquid level within a vessel.

Pressure Rating: 4000 psig
Temperature Range: -20° to 450° F
Connections: NPT, Flanged, Hammer Union



PNEUMATIC LIQUID LEVEL SWITCH

This snap-acting stainless steel switch has a seal-less design, isolating liquids from the pneumatics.

Pressure Rating: 2000 psig
Temperature Range: -20° to 450° F
Maximum Supply Pressure: 75 psig
 ⚡ Electric Options Available



HIGH PRESSURE CONTROL VALVE

Functions as a snap liquid dump valve or a throttle control valve.

Size: 1" to 10"
Pressure Rating: 1": Up to 6000 psig
 2": Up to 6170 psig
 3" to 10": Up to 1440 psig
Temperature Range: -20° to 450° F
Material: WCB
Connections: NPT, Flanged



T-BODY HIGH PRESSURE CONTROL VALVE

Used as a snap liquid dump valve or a throttle control valve in erosive applications.

Size: 2"
Pressure Rating: Up to 6000 psig
Temperature Range: -15° to 450° F
Material: WCB
Connections: NPT, Flanged



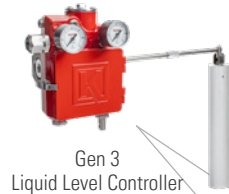
BACK PRESSURE REGULATOR PACKAGE

Maintains constant pressure in the vessel. Uses upstream gas to operate.

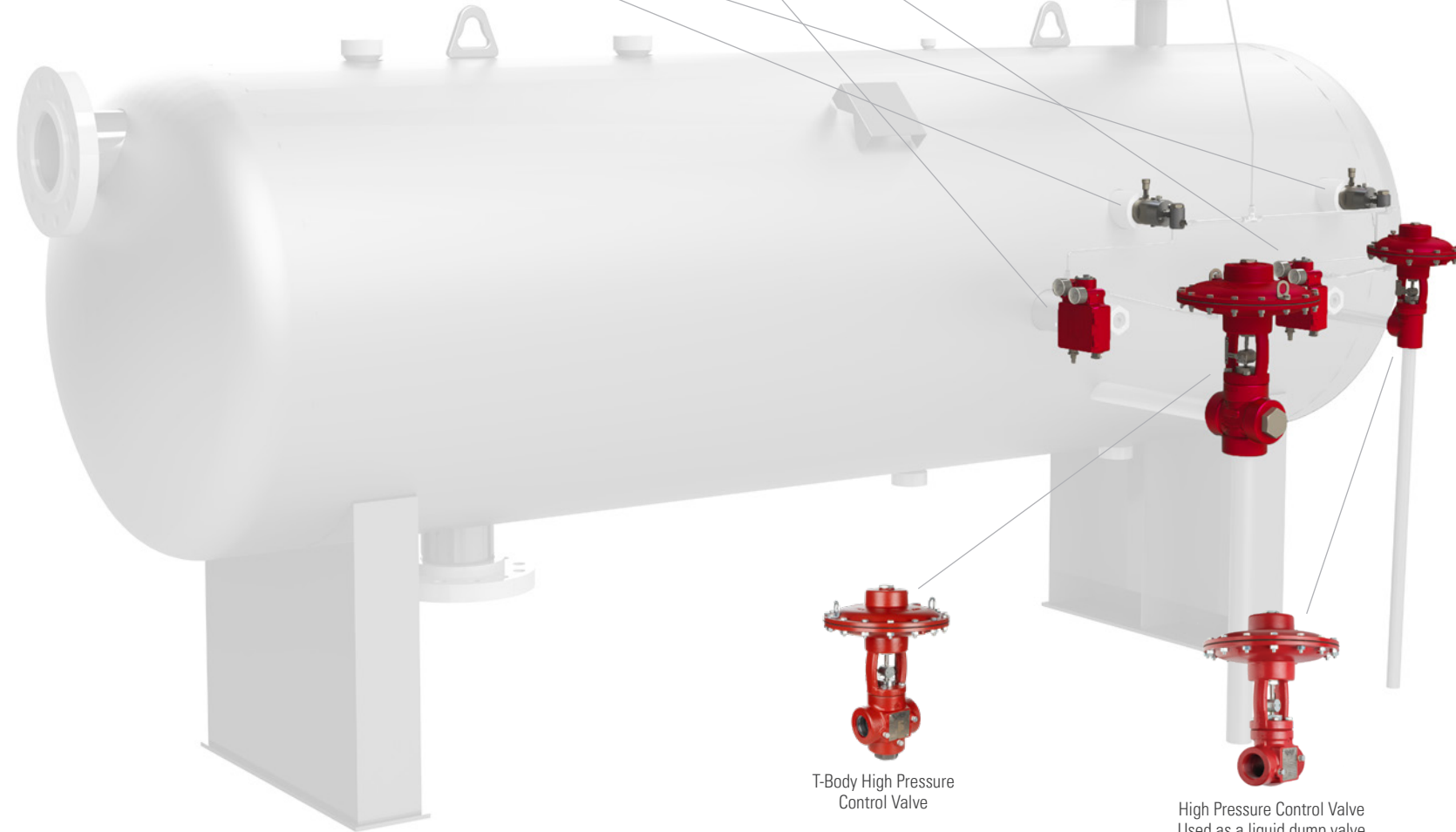
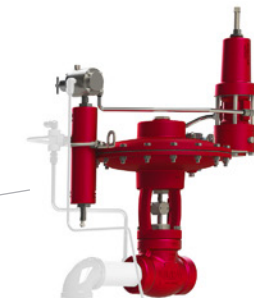
Size: 1" to 10"
Pressure Rating: 1": Up to 6000 psig
 2": Up to 6170 psig
 3" to 10": Up to 1440 psig
Control Range: vacuum to 2500 psig
Temperature Range: -20° to 450° F
Material: WCB
Connections: NPT, Flanged



Pneumatic Liquid Level Switch



Gen 3 Liquid Level Controller



T-Body High Pressure Control Valve



High Pressure Control Valve Used as a liquid dump valve



TRUNNION ASSEMBLY

Transfers force to a mechanical valve based on the liquid level.

Size: 6" to 10"
Pressure Rating: 500 psig
Temperature Range: -20° to 450° F
Material: Ductile, WCB
Connections: Hammer Union, Flanged



LIQUID DUMP VALVE

Uses a mechanical lever to remove all types of liquid from the vessel.

Size: 2" to 6"
Pressure Rating: Up to 500 psig
Temperature Range: -20° to 450° F
Material: Ductile, WCB
Connections: NPT, Flanged

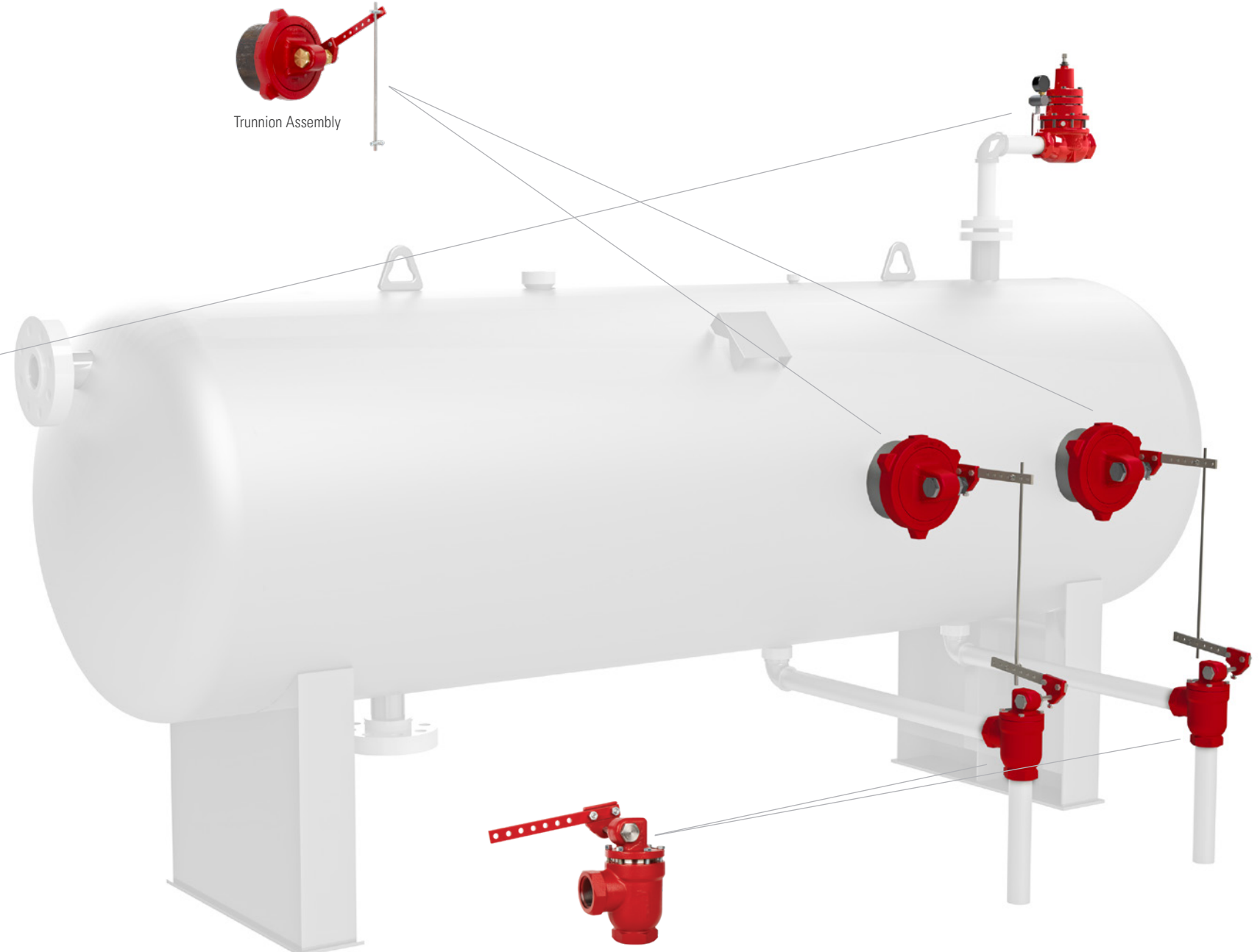


BACK PRESSURE REGULATOR

Maintains constant pressure in the vessel. Uses upstream gas to operate.

Size: 1" to 6"
Pressure Rating: 300 psig
Control Range: 10 to 300 psig
Temperature Range: -20° to 450° F
Material: Ductile, WCB
Connections: NPT, Flanged, Grooved

- Non-Vent Options Available
- Outside Supply Option Available



Liquid Dump Valve

ZERO EMISSIONS APPLICATION

*only if non-vent Back Pressure Regulator is used



BACK PRESSURE REGULATOR

Maintains constant pressure in the vessel. Uses upstream gas to operate

- Size:** 1" to 6"
- Pressure Rating:** 300 psig
- Control Range:** 10 to 300 psig
- Temperature Range:** -20° to 450° F
- Material:** Ductile, WCB
- Connections:** NPT, Flanged, Grooved
- Non-Vent Options Available
- Outside Supply Option Available



DOUBLE-ACTING LOW PRESSURE CONTROL VALVE

Non-adjustable burner valve or shut-down valve that controls the flow of gas to the flame tube.

- Size:** 1" to 6"
- Pressure Rating:** 300 psig
- Control Range:** 5 to 50 psig, depending on springs
- Temperature Range:** -20° to 450° F
- Material:** Ductile, WCB
- Connections:** NPT, Flanged, Grooved



PNEUMATIC LIQUID LEVEL SWITCH

This snap-acting stainless steel switch has a seal-less design, isolating liquids from the pneumatics.

- Pressure Rating:** 2000 psig
- Temperature Range:** -20° to 450° F
- Maximum Supply Pressure:** 75 psig
- Electric Options Available



TEMPERATURE CONTROLLER

Monitors the temperature and provides pneumatic output proportional to the temperature.

- Pressure Rating:** 500 psig, 4000 psig with separable socket
- Temperature Range:** -30° to 750° F
- Separable Socket:** 4000 psig



WEIGHT OPERATED DUMP VALVE

Floaterless level control valve used on water leg and oil leg of a heater treaters.

- Size:** 2" to 6"
- Pressure Rating:** 125 psig
- Temperature Range:** -20° to 450° F
- Material:** Ductile, WCB
- Connections:** NPT, Flanged
- Zero Emissions



Pneumatic Level Switch



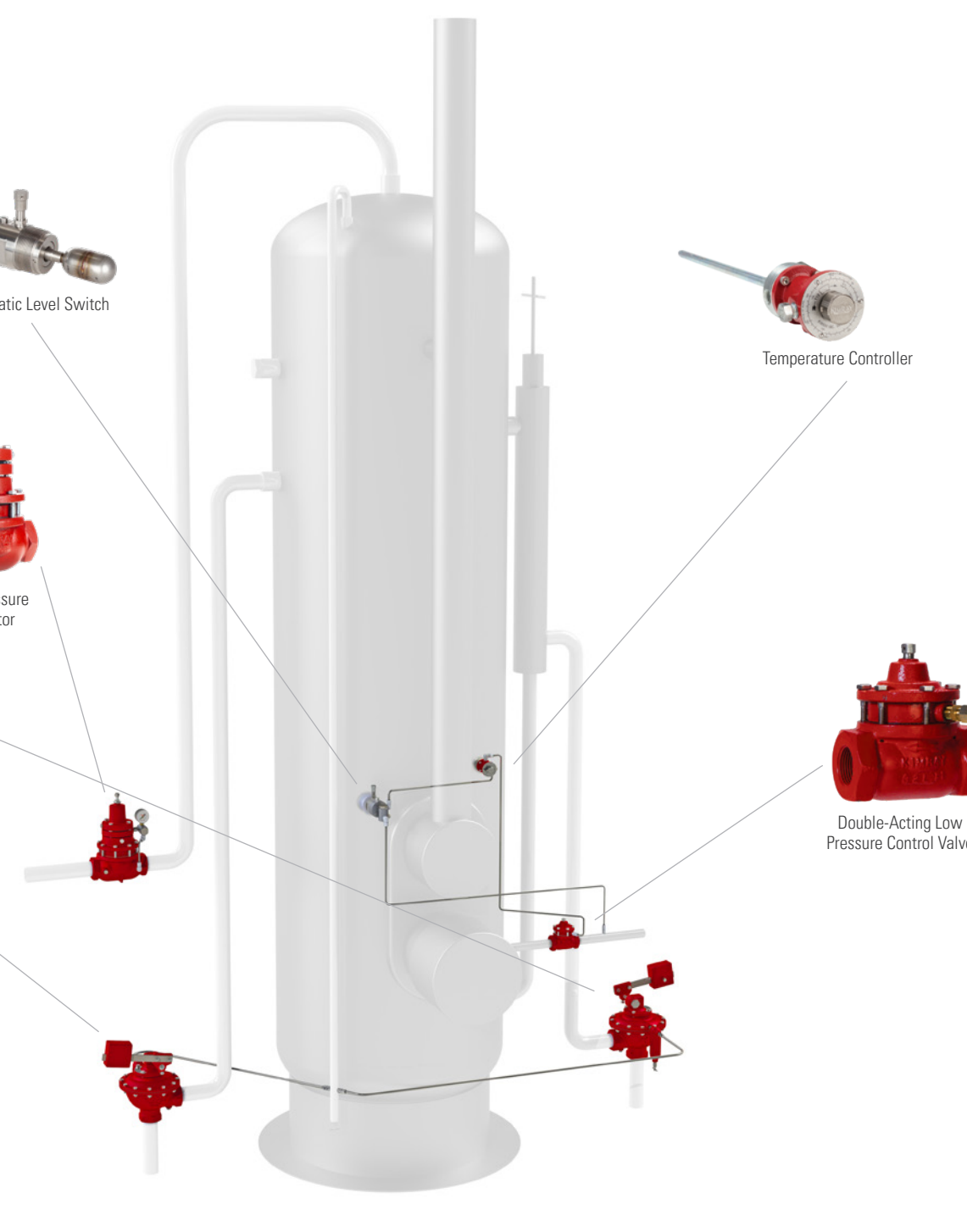
Back Pressure Regulator



Temperature Controller



Double-Acting Low Pressure Control Valve





E-LO CONTROL VALVE

Provides precise valve regulation for flow control.

Features: Proof of Closure Indication (NFPA 87), single soft seat, mechanical overdrive to insure full closure, removable valve seat, modular input accessories, analog (4-20 mA module for proportional control), discrete input module for on/off control, modbus for remote communication available

Material: Ductile, WCB

Connections: NPT



WEIGHT OPERATED DUMP VALVE

Floatless level control valve used on water leg and oil leg of a heater treaters.

Size: 2" to 6"

Pressure Rating: 125 psig

Temperature Range: -20° to 450° F

Material: Ductile, WCB

Connections: NPT, Flanged



ELECTRIC PILOT

Provides precise valve regulation for flow control.

Features: PID for direct or indirect control, PID auto-tune, ON-OFF control for shutdown applications, low power, Class I, Div. 1 explosion-proof rating, discrete I/O

Input voltage: 10-30 VDC

Communication: MODBUS RS-485

Analog input: 4-20mA from sensor

Analog output: 4-20mA to valve actuator



ELECTRIC ACTUATOR

Provides efficient, zero-emission control.

Voltage: 12-24VDC

Rating: Class 1 Zone 1

Speed: Up to 1/2" per second

Bottom Works: 1" - 10"

Connections: (2) 1/2" NPT (2) 3/4" NPT

Max LBF: 2300lbs

T-Body HPCV available for erosive applications



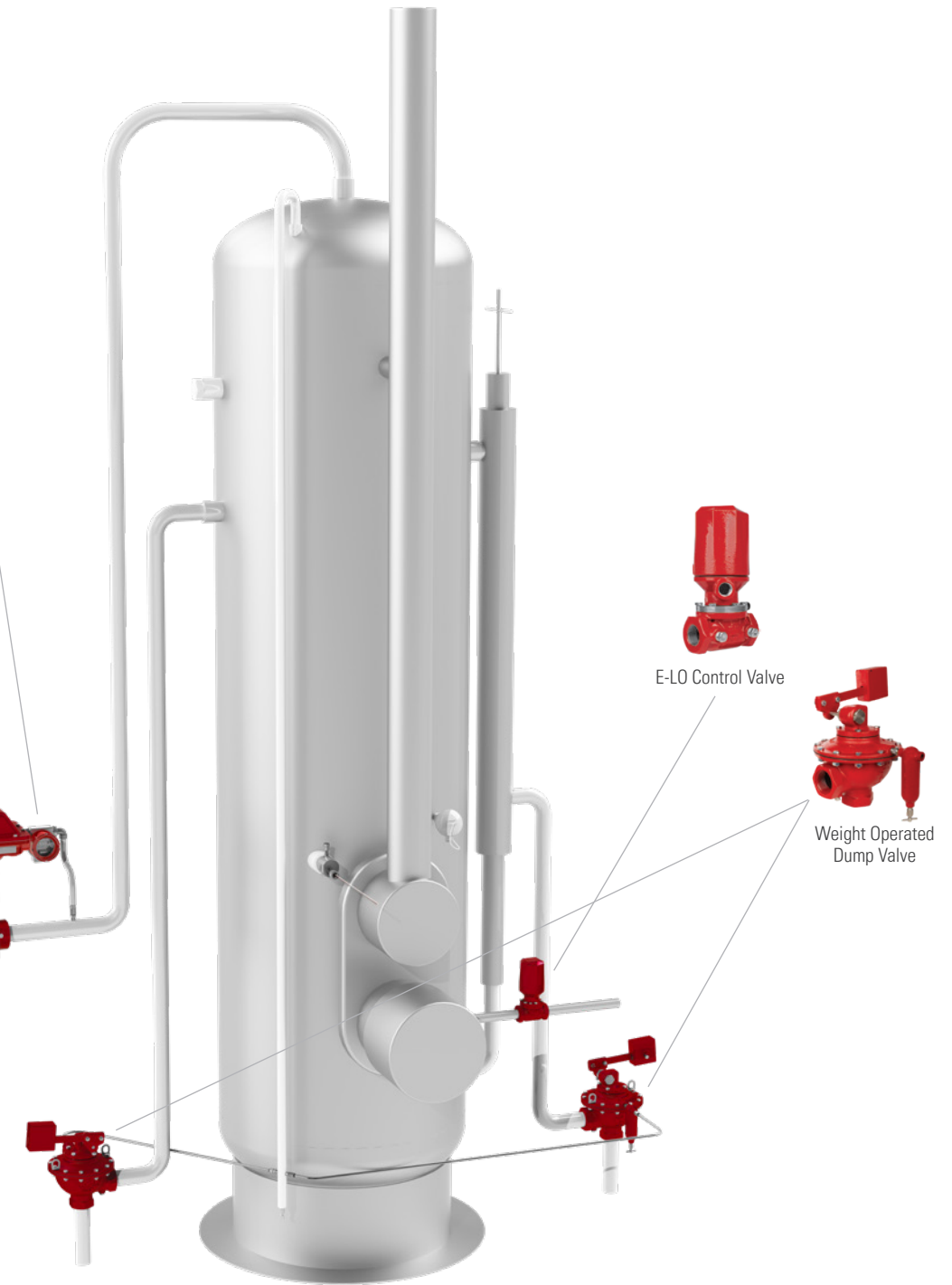
Electric Pilot



E-LO Control Valve



Weight Operated Dump Valve





ADJUSTABLE DOUBLE-ACTING LOW PRESSURE CONTROL VALVE

Used as an adjustable dump valve in a separator/scrubber application.

Size: 1" and 2"
Pressure Rating: up to 500 psig
Control Range: 5 to 250 psig
Max. Diff. Pressure: 40 to 175 psig
Temperature Range: -20° to 450° F
Material: Ductile, WCB
Connections: NPT, Flanged, Grooved



DIFFERENTIAL PRESSURE REGULATOR

Controls a set difference between upstream and downstream pressure.

Size: 2" to 6"
Pressure Rating: 300 psig
Control Range: 10 to 300 psig
Temperature Range: -20° to 450° F
Material: Ductile, WCB
Connections: NPT, Flanged, Grooved



GEN 3 LIQUID LEVEL CONTROLLER

Pneumatically controls the liquid level within a vessel.

Pressure Rating: 4000 psig
Temperature Range: -20° to 450° F
Connections: NPT, Flanged, Hammer Union



BACK PRESSURE REGULATOR

Used as a high discharge recirculating valve.

Size: 1" to 6"
Pressure Rating: 300 psig
Control Range: 10 to 300 psig
Temperature Range: -20° to 450° F
Material: Ductile, WCB
Connections: NPT, Flanged, Grooved
 Non-Vent Options Available
 Outside Supply Option Available



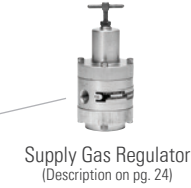
PRESSURE-REDUCING BALANCED REGULATOR

Used as a suction controller to maintain a constant pressure into the compressor or as a low-suction or make-up gas regulator.

Sizes: 1" to 6"
Pressure Rating: 300 psig
Control Range: 10 to 300 psig
Temperature Range: -20° to 450° F
Material: Ductile, WCB
Connections: NPT, Flanged, Grooved
 Non-Vent Options Available



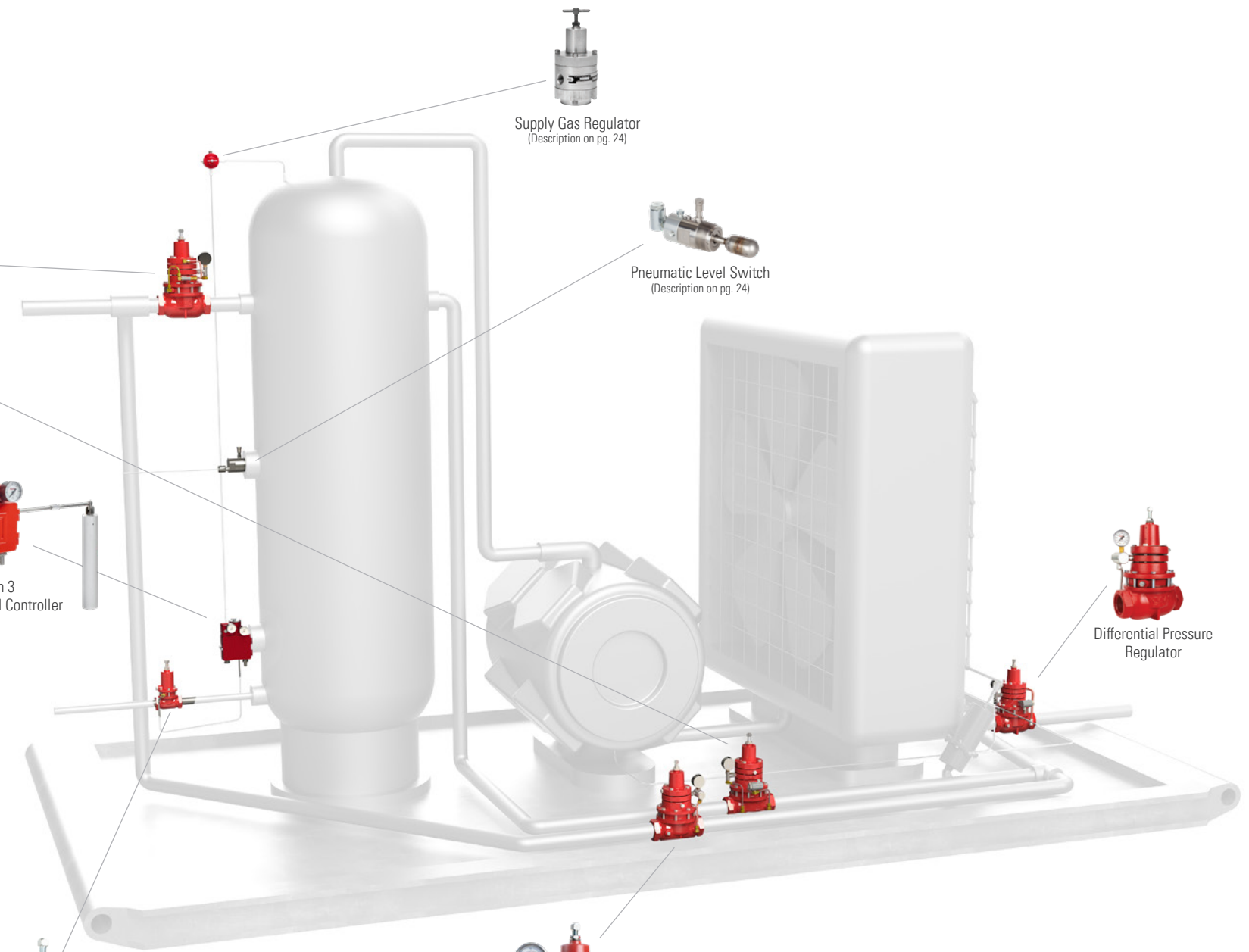
Gen 3 Liquid Level Controller



Supply Gas Regulator
(Description on pg. 24)



Pneumatic Level Switch
(Description on pg. 24)



Differential Pressure Regulator



Adjustable Double-Acting Low Pressure Control Valve
Used for liquid dump



Back Pressure Regulator
Used as a high discharge recirculation valve



HIGH PRESSURE CONTROL VALVE

Used as a snap liquid dump valve or a throttle liquid control valve.

Sizes: 1" to 10"
Pressure Rating: 1": Up to 6000 psig
 2": Up to 6170 psig
 3" to 10": Up to 1440 psig
Temperature Range: -20° to 450° F
Material: WCB
Connections: NPT, Flanged



PRESSURE-REDUCING REGULATOR PACKAGE

Maintains constant pressure to compressor. Uses upstream gas to operate.

Size: 1" to 10"
Pressure Rating: 1": Up to 6000 psig
 2": Up to 6170 psig
 3" to 10": Up to 1440 psig
Control Range: vacuum to 2500 psig
Temperature Range: -20° to 450° F
Material: WCB
Connections: NPT, Flanged



SUPPLY GAS REGULATOR

Used to provide gas to the instrument.

Pressure Rating: 4000 psig
Control Range: 10 to 250 psig



BACK PRESSURE REGULATOR PACKAGE

Maintains constant pressure upstream of the valve. Uses upstream gas to operate.

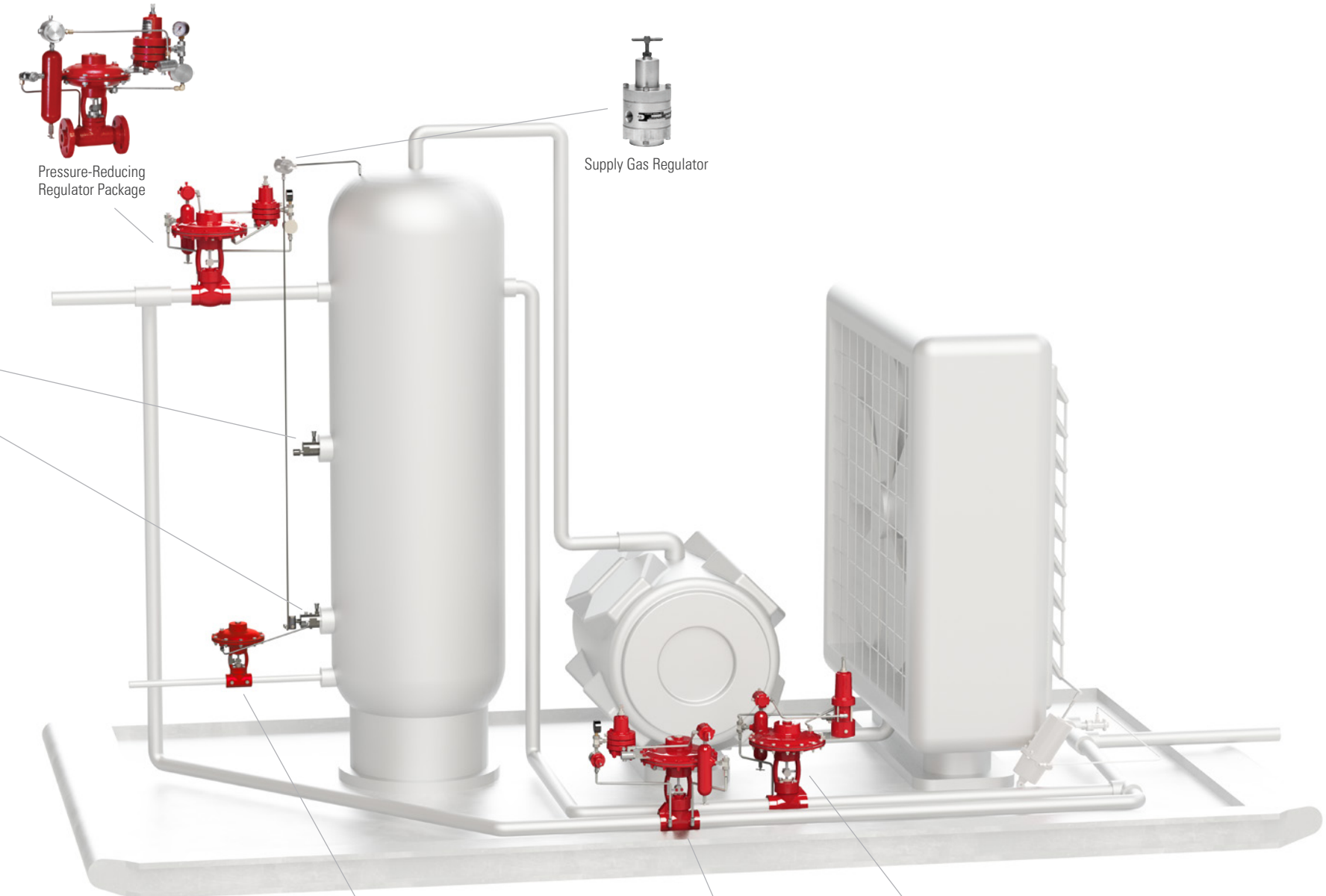
Size: 1" to 10"
Pressure Rating: 1": Up to 6000 psig
 2": Up to 6170 psig
 3" to 10": Up to 1440 psig
Control Range: vacuum to 2500 psig
Temperature Range: -20° to 450° F
Material: WCB
Connections: NPT, Flanged



PNEUMATIC LIQUID LEVEL SWITCH

This snap-acting stainless steel switch has a seal-less design, isolating liquids from the pneumatics.

Pressure Rating: 2000 psig
Temperature Range: -20° to 450° F
Maximum Supply Pressure: 75 psig



Pressure-Reducing Regulator Package

Supply Gas Regulator



High Pressure Control Valve
Used as a liquid dump valve



Pressure-Reducing Regulator Package



Back Pressure Regulator Package

ELECTRIC OPTION AVAILABLE



BACK PRESSURE REGULATOR

Maintains constant pressure in the vessel. Uses upstream gas to operate.

- Size:** 1" to 6"
- Pressure Rating:** 300 psig
- Control Range:** 10 to 300 psig
- Temperature Range:** -20° to 450° F
- Material:** Ductile, WCB
- Connections:** NPT, Flanged, Grooved
- Non-Vent Options Available
- Outside Supply Option Available



ADJUSTABLE DOUBLE-ACTING LOW PRESSURE CONTROL VALVE

Used as an adjustable burner valve or dump valve in a dehydration application.

- Size:** 1" and 2"
- Pressure Rating:** Up to 500 psig
- Control Range:** 5 to 250 psig
- Max. Diff. Pressure:** 40 to 175 psig
- Temperature Range:** -20° to 450° F
- Material:** Ductile
- Connections:** NPT, Flanged, Grooved



GEN 3 LIQUID LEVEL CONTROLLER

Pneumatically controls the liquid level within a vessel.

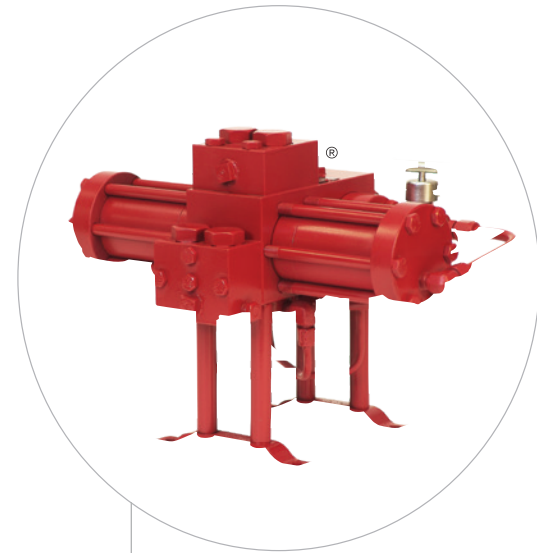
- Pressure Rating:** 4000 psig
- Temperature Range:** -20° to 450° F
- Connections:** NPT, Flanged, Hammer Union



DOUBLE-ACTING LOW PRESSURE CONTROL VALVE

Used as a non-adjustable burner valve or shut-down valve to control the flow of gas to the flame tube.

- Size:** 1" to 6"
- Pressure Rating:** 300 psig
- Control Range:** 5 to 50 psig
- Temperature Range:** -20° to 450° F
- Material:** Ductile, WCB
- Connections:** NPT, Flanged, Grooved



ENERGY EXCHANGE GLYCOL PUMP

Circulates glycol in the dehydration system.

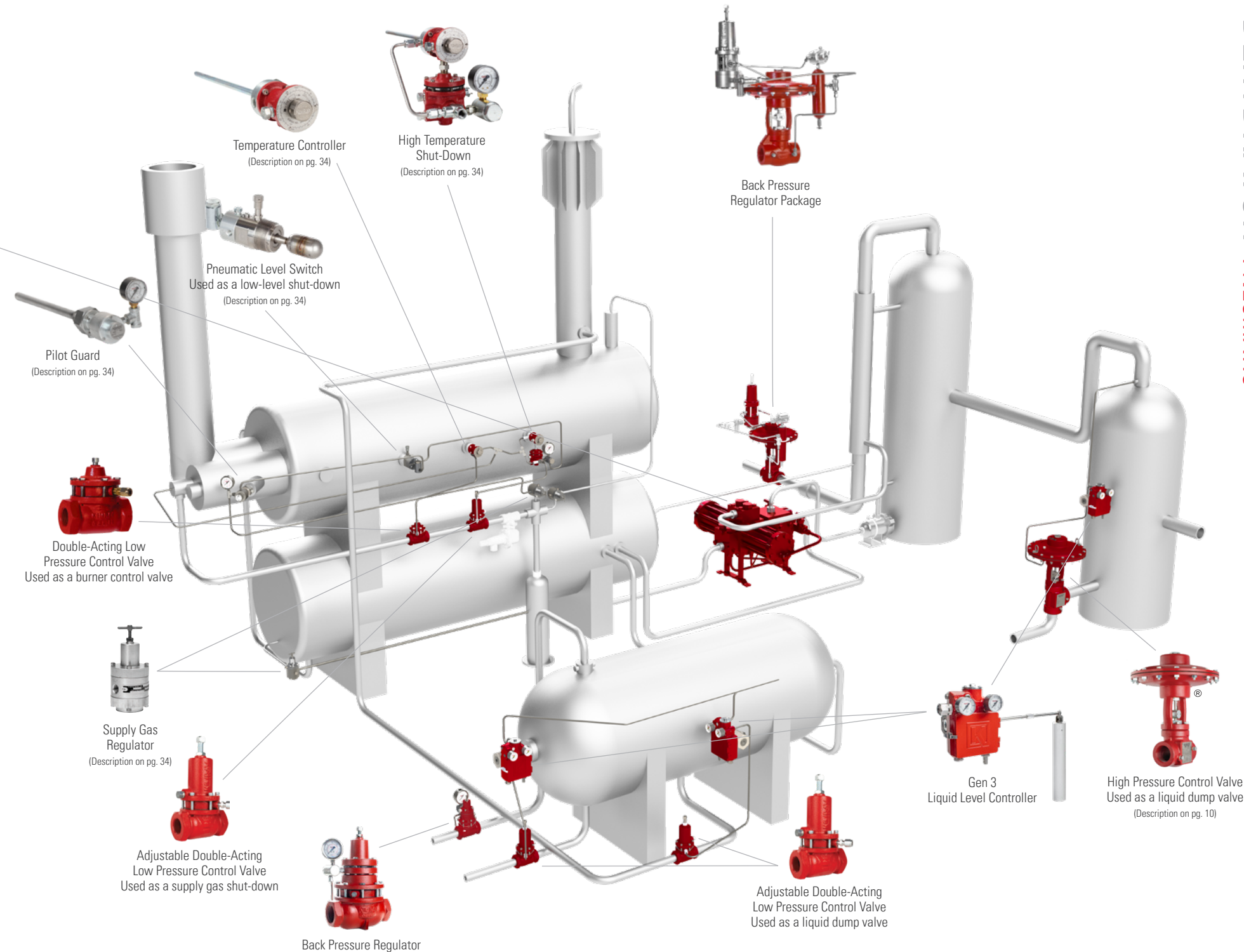
- Pressure Rating:** 100 to 2000 psig
- Circulation Rate:** 8 to 450 GPH



BACK PRESSURE REGULATOR PACKAGE

Maintains constant pressure upstream of the valve. Uses upstream gas to operate.

- Size:** 1" to 10"
- Pressure Rating:** 1": Up to 6000 psig
2": Up to 6170 psig
3" to 10": Up to 1440 psig
- Control Range:** vacuum to 2500 psig
- Temperature Range:** -20° to 450° F
- Material:** WCB
- Connections:** NPT, Flanged





E-LO CONTROL VALVE

Provides precise valve regulation for flow control.

Features: Proof of Closure Indication (NFPA 87), single soft seat, mechanical overdrive to ensure full closure, removable valve seat, modular input accessories, analog (4-20 mA module for proportional control), discrete input module for on/off control, modbus for remote communication available
Material: Ductile, WCB
Connections: NPT



ELECTRIC PILOT

Provides precise valve regulation for flow control.

Features: PID for direct or indirect control, PID auto-tune, ON-OFF control for shutdown applications, low power, Class I, Div. 1 explosion-proof rating, discrete I/O
Input voltage: 10-30 VDC
Communication: MODBUS RS-485
Analog input: 4-20mA from sensor
Analog output: 4-20mA to valve actuator



ELECTRIC ACTUATOR

Provides efficient, zero-emission control.

Voltage: 12-24VDC
Rating: Class 1 Zone 1
Speed: Up to 1/2" per second
Bottom Works: 1" - 10"
Connections: (2) 1/2" NPT (2) 3/4" NPT
Max LBF: 2300lbs



ELECTRIC GLYCOL PUMP

Combines the durability of a hydraulically-balanced diaphragm with the high-pressure capabilities of a plunger into one positive-displacement pump.

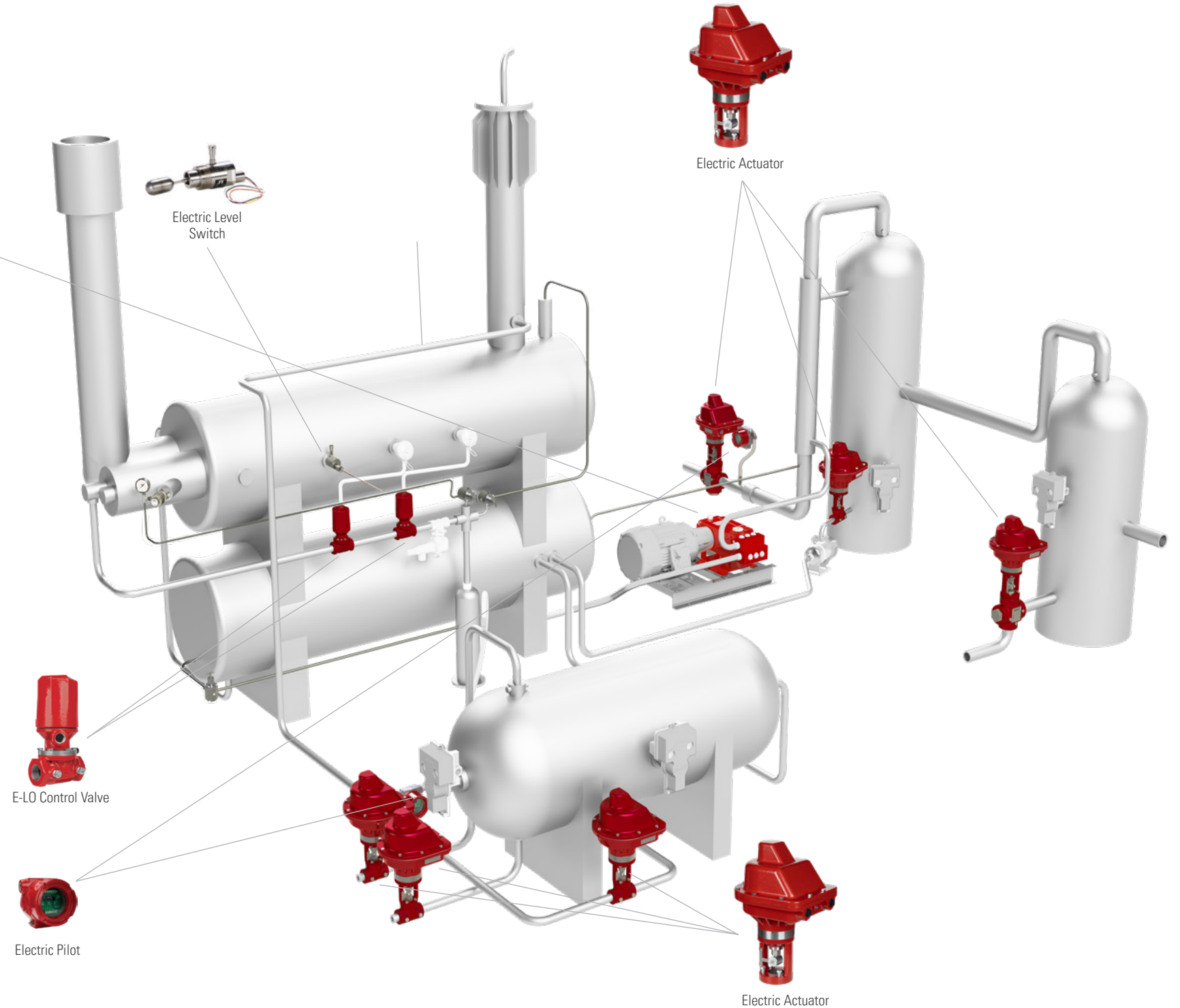
Size: 2 GPM or 8.3 GPM
Max. Inlet Pressure: 250 psig (8.3 GPM)
Pressure Range: 1200 psig (2 GPM)
 1500 psig (8.3 GPM)



ELECTRIC LEVEL SWITCH

Snap-acting stainless steel electric switch.

Pressure Rating: 2000 psig
Temperature Range: -20° to 450° F





SPRING-LOADED BACK PRESSURE REGULATOR

Controls pressure in the vessel.

- Size:** 2" and 3"
- Pressure Rating:** Up to 300 psig
- Control Range:** 0 to 125 psig
- Temperature Range:** -20° to 450° F
- Material:** Ductile, WCB
- Connections:** NPT, Flanged, Grooved



TRUNNION ASSEMBLY

Transfers force to a mechanical valve based on the liquid level.

- Size:** 6" to 10"
- Pressure Rating:** 500 psig
- Temperature Range:** -20° to 450° F
- Material:** Ductile, WCB
- Connections:** Hammer Union, Flanged



LIQUID DUMP VALVE

Uses a mechanical lever to remove all types of liquid from the vessel.

- Size:** 2" to 6"
- Pressure Rating:** Up to 500 psig
- Temperature Range:** -20° to 450° F
- Material:** Ductile, WCB
- Connections:** NPT, Flanged



Trunnion Assembly



Spring-Loaded Back Pressure Regulator





SPRING-LOADED BACK PRESSURE REGULATOR

Controls pressure in the vessel.

- Size:** 2" and 3"
- Pressure Rating:** Up to 300 psig
- Control Range:** 0 to 125 psig
- Temperature Range:** -20° to 450° F
- Material:** Ductile, WCB
- Connections:** NPT, Flanged, Grooved

Zero Emissions



3 PMB PILOT MOUNTED ON A FLOAT OPERATED TRUNNION COVER

Transfer force to the 3PM pilot which outputs up to 30 psi of supply pressure.

- Size:** 6" to 10"
- Pressure Rating:** 30 psig
- Material:** Ductile



WEIGHT OPERATED DUMP VALVE

Floatless level control valve used on water leg and oil leg of a heater treater.

- Size:** 2" to 6"
- Pressure Rating:** 125 psig
- Temperature Range:** -20° to 450° F
- Material:** Ductile, WCB
- Connections:** NPT, Flanged

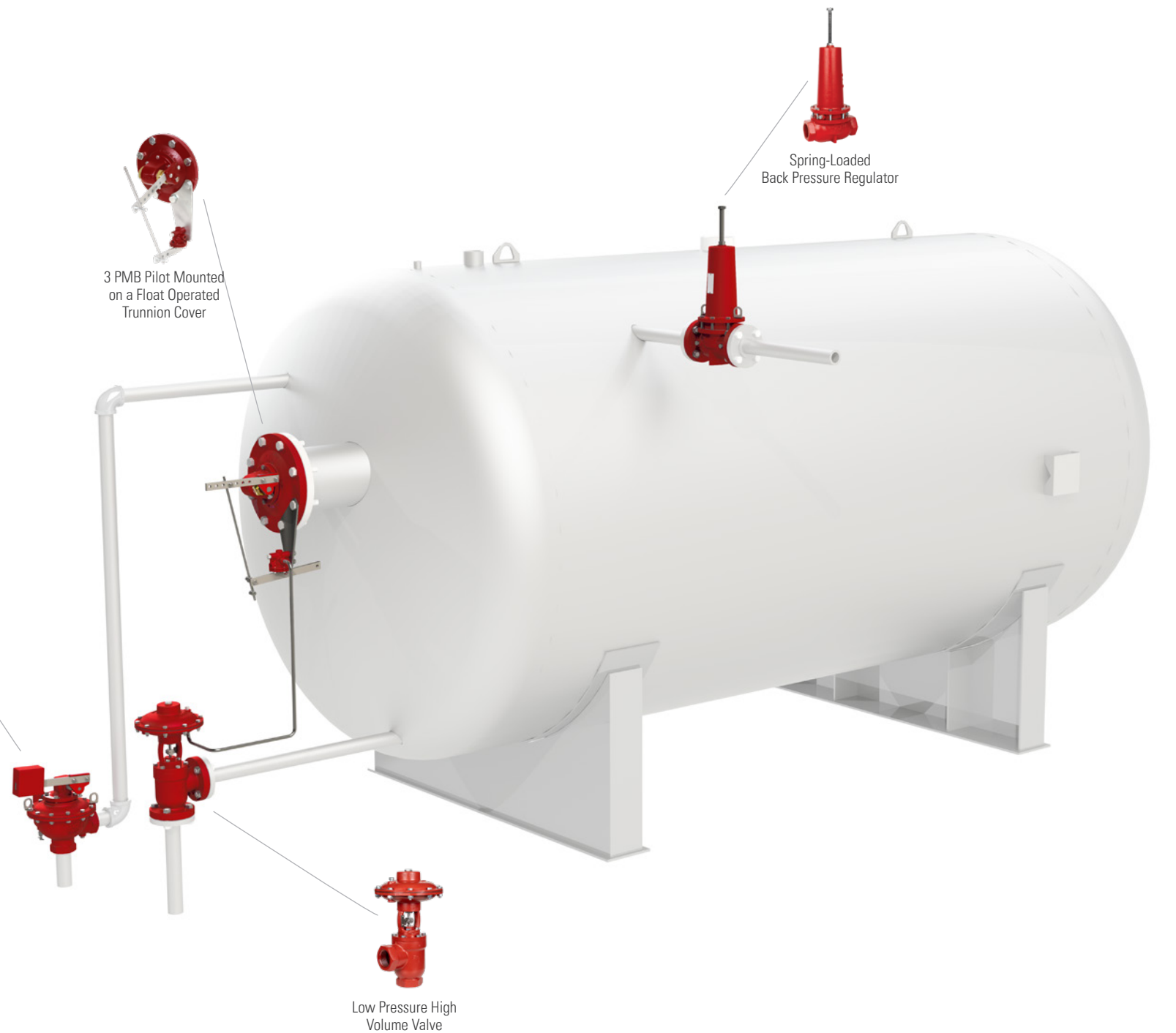
Zero Emissions



LOW PRESSURE HIGH VOLUME VALVE

Designed for highly erosive environments and where large capacity is needed, used as an oil or water valve for separators, meters, and water knockouts where a reduced signal pressure is available.

- Size:** 2" and 3", both have option of full or reduced trim.
- Pressure Rating:** 500 psig
- Temperature Range:** -20° to 400° F
- Material:** Ductile
- Connections:** NPT, Flanged



3 PMB Pilot Mounted on a Float Operated Trunnion Cover

Spring-Loaded Back Pressure Regulator

Low Pressure High Volume Valve



HIGH TEMPERATURE SHUT-DOWN

This safety switch monitors the water bath temperature and can shut down the burner supply.

Pressure Rating: 500 psig, up to 7000 psig with separable socket
Temperature Range: -30° to 750° F
Separable Socket: 4000 psig



TEMPERATURE CONTROLLER

Monitors the temperature and provides pneumatic output proportional to the temperature.

Pressure Rating: 500 psig, 7000 psig with separable socket.
Temperature Range: -30° to 750° F
Separable Socket: 4000 psig



DOUBLE-ACTING LOW PRESSURE CONTROL VALVE

Non-adjustable burner valve or shut-down valve that controls the flow of gas to the flame tube.

Size: 1" to 6"
Pressure Rating: 300 psig
Control Range: 5 to 50 psig, depending on springs
Temperature Range: -20° to 450° F
Material: Ductile, WCB
Connections: NPT, Flanged, Grooved



PNEUMATIC LIQUID LEVEL SWITCH

This snap-acting stainless steel switch has a seal-less design, isolating liquids from the pneumatics.

Pressure Rating: 2000 psig
Temperature Range: -20° to 450° F
Maximum Supply Pressure: 75 psig

⚡ Electric Options Available



SUPPLY GAS REGULATOR

Used to provide gas to the instrument.

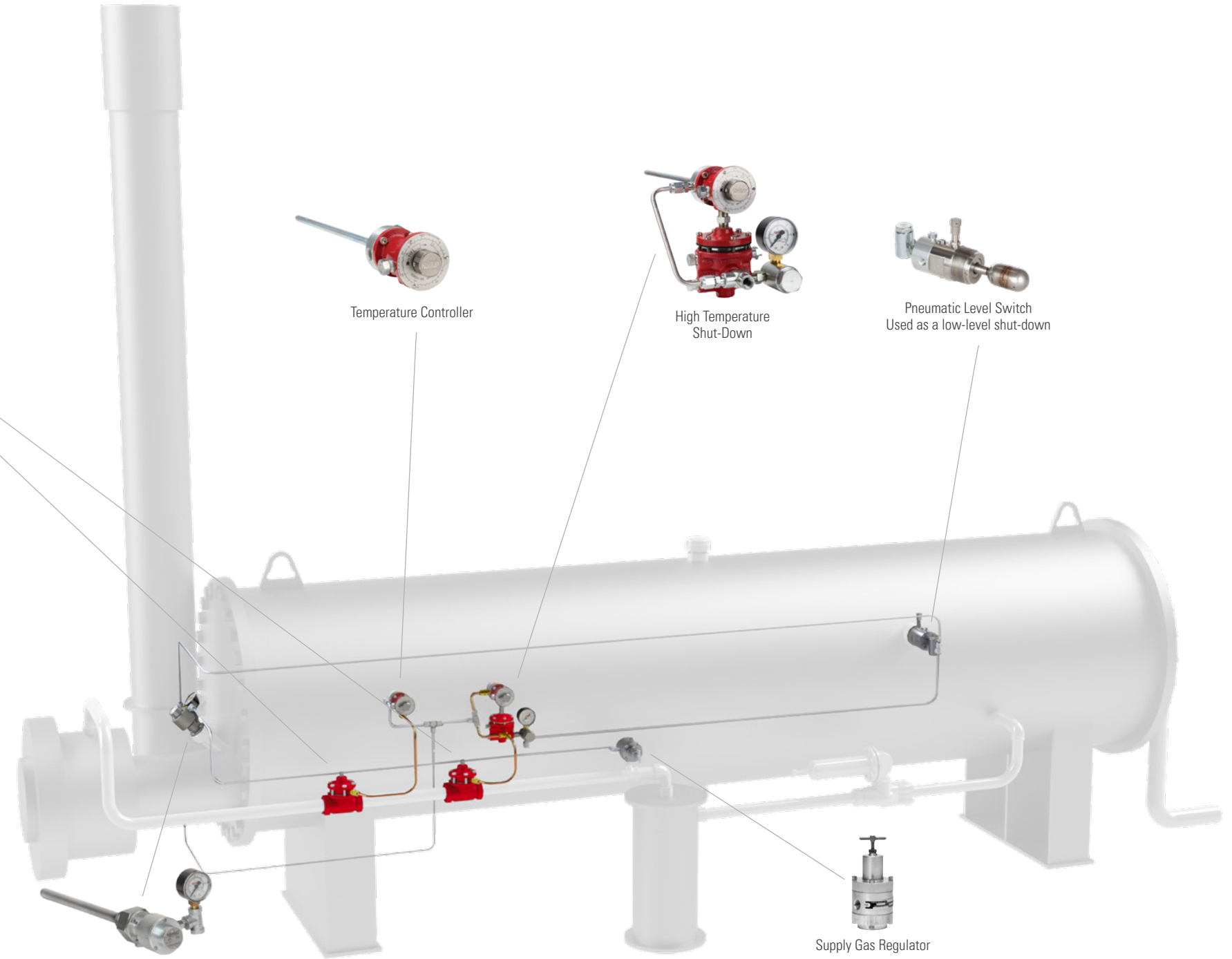
Pressure Rating: 4000 psig
Control Range: 10 to 250 psig



PILOT GUARD

Monitors the pilot flame to the burner tube.

Temperature Range: -30° to 2100° F



Temperature Controller



High Temperature Shut-Down



Pneumatic Level Switch
Used as a low-level shut-down



Pilot Guard



Supply Gas Regulator



TOPWORKS USED WITH PLUNGER CATCHER

1" topworks used with a third-party plunger catcher.

Pressure Rating: Up to 45 psig



MINI SCRUBBER

Extracts instrument-quality gas from a wet gas line while the moisture stays in the line.

Length: 22"
Connections: NPT



SUPPLY GAS REGULATOR

Used to provide gas to the instrument.

Pressure Rating: 4000 psig
Control Range: 10 to 250 psig



T-BODY HIGH PRESSURE CONTROL VALVE

Used as a snap liquid dump valve or a throttle liquid control valve in erosive applications.

Size: 2"
Pressure Rating: Up to 6000 psig
Temperature Range: -15° to 450° F
Material: WCB
Connections: NPT, Flanged

Note: Standard HPCV available with multiple end-connection options



Topworks used with Plunger Catcher



Supply Gas Regulator



Mini Scrubber





ELECTRIC ACTUATOR USED WITH PLUNGER CATCHER

Electric Actuator used with a third-party plunger catcher

OTHER OPTIONS



VALVCON ELECTRIC ACTUATOR SHOWN WITH R2L ADAPTER

Features: Open-yoke design, standard coupling block and mounting hardware to valve, weather-tight, maintenance free design
Size: 1" and 2"



ELECTRIC ACTUATOR

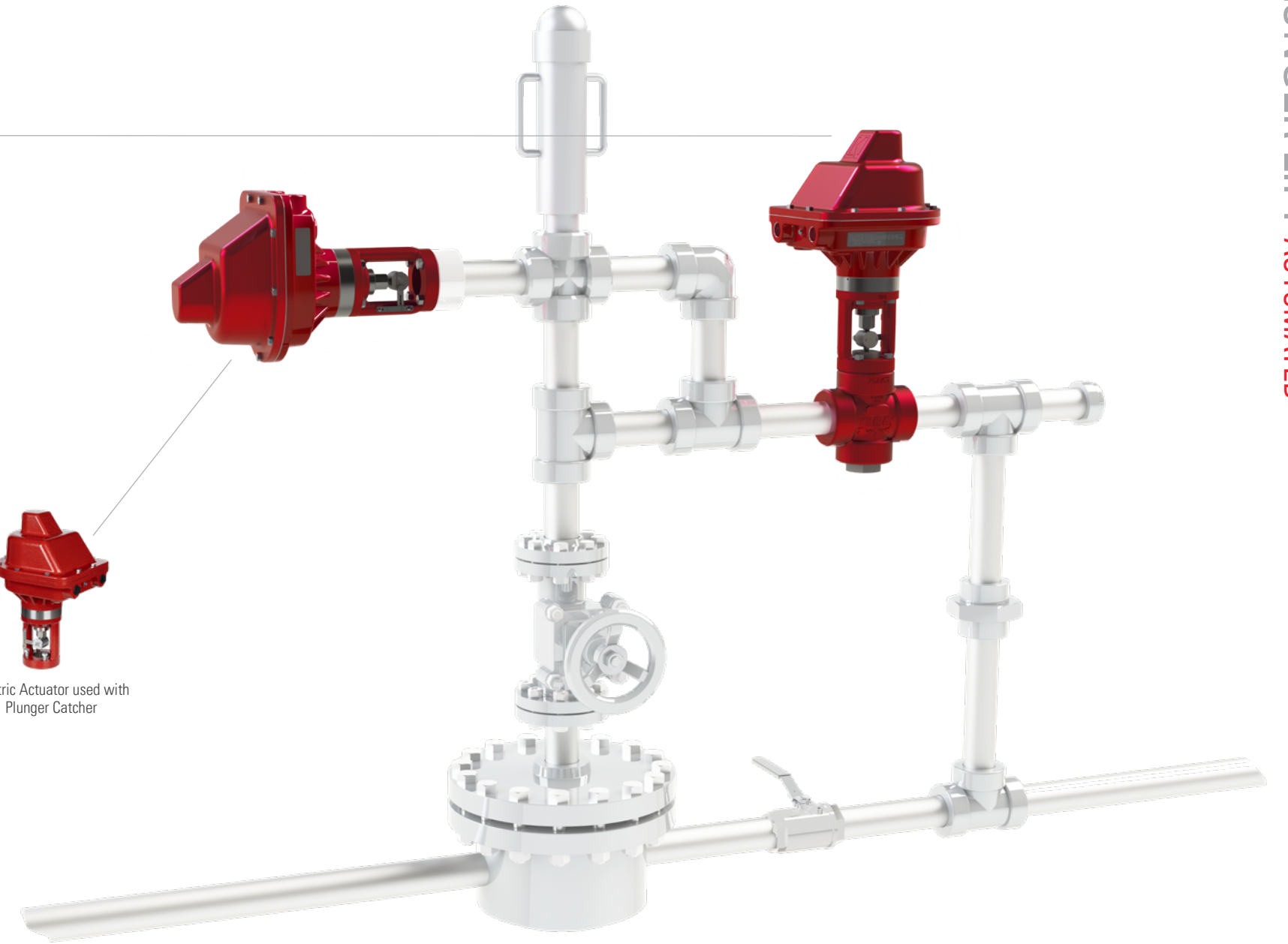
Provides efficient, zero-emission control.

Voltage: 12-24VDC
Rating: Class 1 Zone 1
Speed: Up to 1/2" per second
Bottom Works: 1" - 10"
Connections: (2) 1/2" NPT (2) 3/4" NPT
Max LBF: 2300lbs

T-Body HPCV available for erosive applications



Electric Actuator used with Plunger Catcher





T-BODY HIGH PRESSURE CONTROL VALVE

Used to regulate flow.

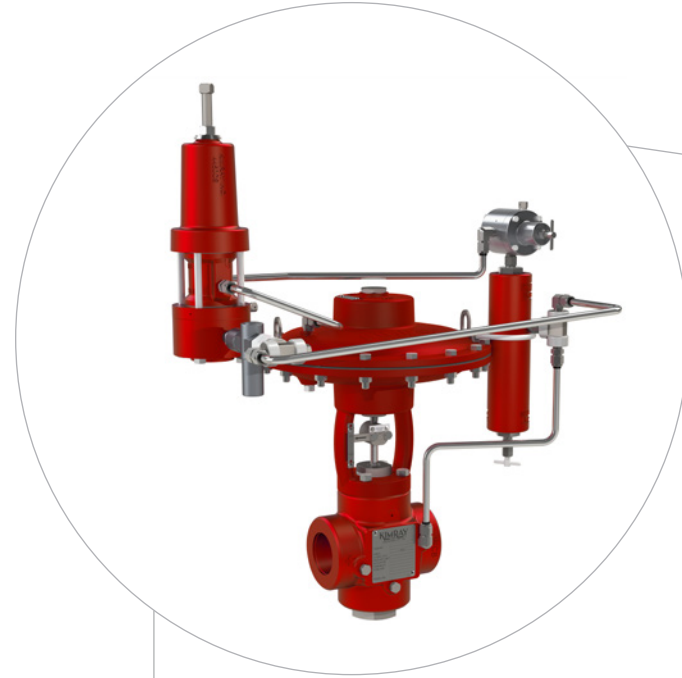
Size: 2"
Pressure Rating: Up to 6000 psig
Temperature Range: -15° to 450° F
Material: WCB
Connections: NPT, Flanged



TOPWORKS USED WITH PLUNGER CATCHER

1" topworks used with a third-party plunger catcher.

Pressure Rating: Up to 45 psig



T-BODY HIGH PRESSURE CONTROL VALVE PACKAGE

Used to regulate pressure.

Size: 2"
Pressure Rating: Up to 6000 psig
Temperature Range: -20° to 450° F
Material: WCB
Connections: NPT, Flanged

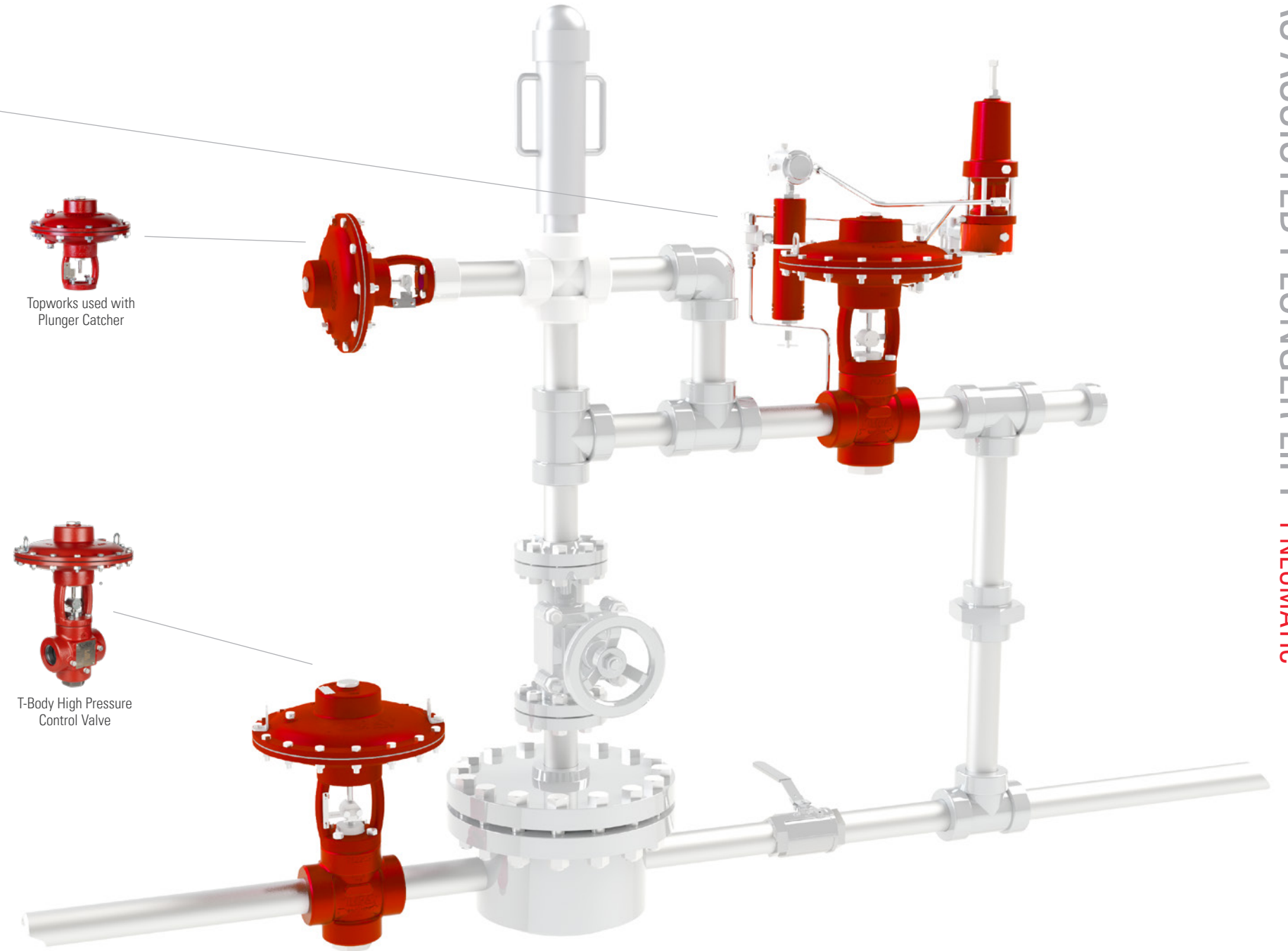
Note: Standard HPCV available with multiple end-connection options



Topworks used with Plunger Catcher



T-Body High Pressure Control Valve





ELECTRIC PILOT

Provides precise valve regulation for flow control.

- Features:** PID for direct or indirect control, PID auto-tune, ON-OFF control for shutdown applications, low power, Class I, Div. 1 explosion-proof rating, discrete I/O
- Input voltage:** 10-30 VDC
- Communication:** MODBUS RS-485
- Analog input:** 4-20mA from sensor
- Analog output:** 4-20mA to valve actuator



ELECTRIC ACTUATOR USED WITH PLUNGER CATCHER

Electric Actuator used with a third-party plunger catcher

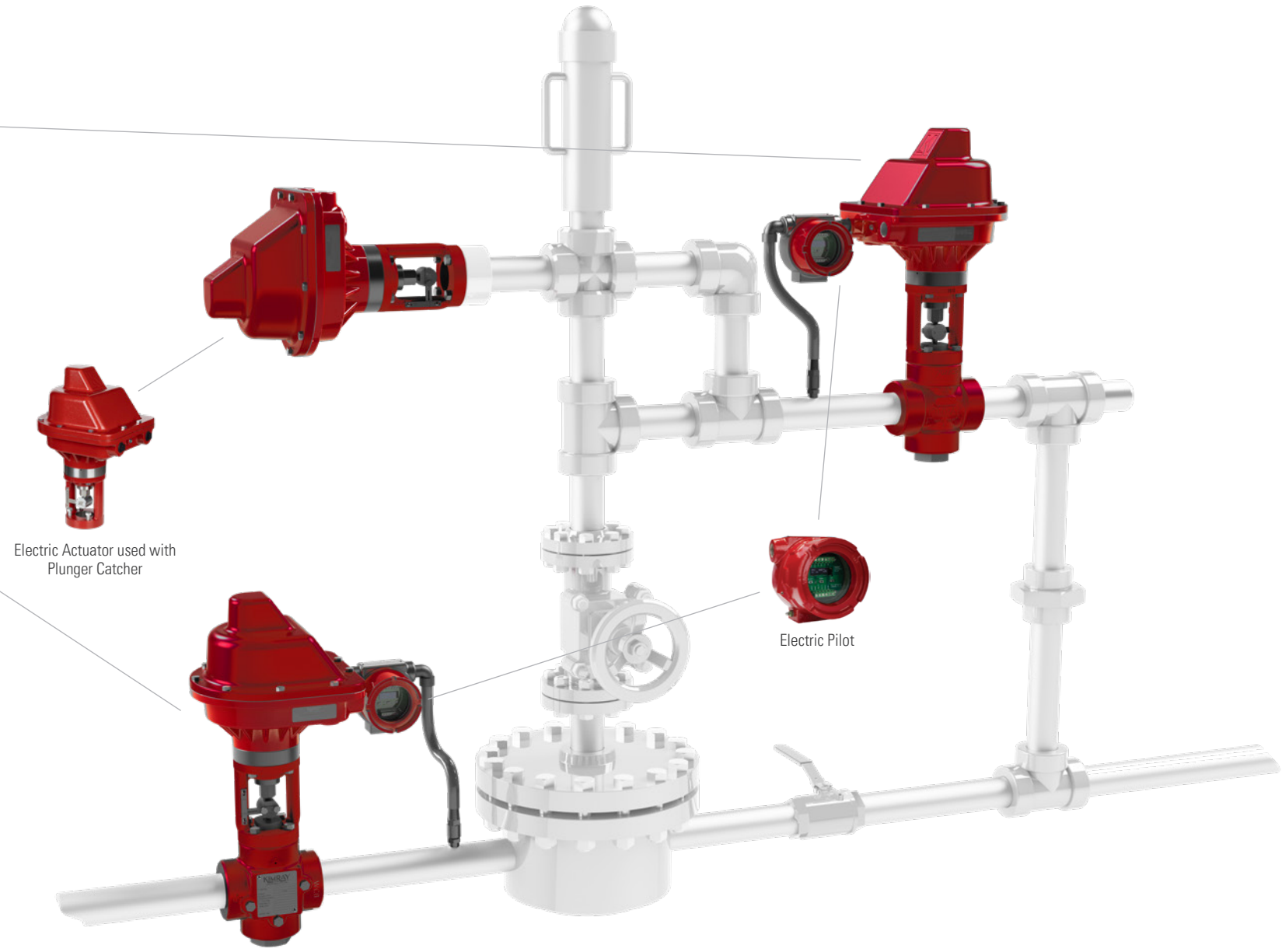


ELECTRIC ACTUATOR

Provides efficient, zero-emission control.

- Voltage:** 12-24VDC
- Rating:** Class 1 Zone 1
- Speed:** Up to 1/2" per second
- Bottom Works:** 1" - 10"
- Connections:** (2) 1/2" NPT (2) 3/4" NPT
- Max LBF:** 2300lbs

T-Body HPCV available for erosive applications



Electric Actuator used with Plunger Catcher

Electric Pilot



**DOUBLE-ACTING
LOW PRESSURE
CONTROL VALVE**

Non-adjustable burner valve or shut-down valve that controls the flow of gas to the flame tube.

Size: 1" to 6"
Pressure Rating: 300 psig
Control Range: 5 to 50 psig
Temperature Range: -20° to 450° F
Material: Ductile, WCB
Connections: NPT, Flanged, Grooved



**TEMPERATURE
CONTROLLER**

Monitors the temperature and provides pneumatic output proportional to the temperature.

Pressure Rating: 500 psig, 7000 psig with separable socket.
Temperature Range: -30° to 750° F
Separable Socket: 4000 psig



**GEN 3 LIQUID
LEVEL CONTROLLER**

Pneumatically controls the liquid level within a vessel.

Pressure Rating: 4000 psig
Temperature Range: -20° to 450° F
Connections: NPT, Flanged, Hammer Union



**PNEUMATIC LIQUID
LEVEL SWITCH**

This snap-acting stainless steel switch has a seal-less design, isolating liquids from the pneumatics.

Pressure Rating: 2000 psig
Temperature Range: -20° to 450° F
Maximum Supply Pressure: 75 psig

⚡ Electric Options Available



**SUPPLY GAS
REGULATOR**

Used to provide gas to the instrument.

Pressure Rating: 4000 psig
Control Range: 10 to 250 psig



**T-BODY HIGH PRESSURE
CONTROL VALVE**

Used as a snap liquid dump valve or a throttle liquid control valve in erosive applications.

Size: 2"
Pressure Rating: Up to 6000 psig
Temperature Range: -15° to 450° F
Material: WCB
Connections: NPT, Flanged



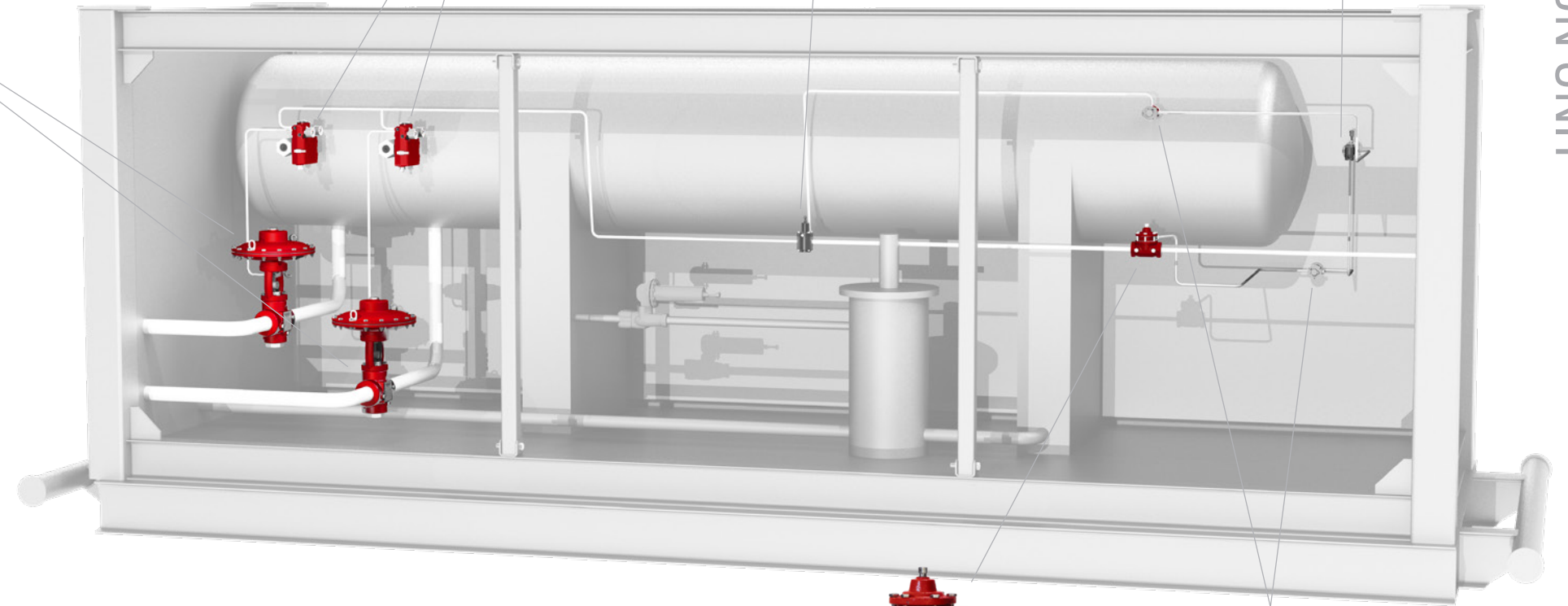
Gen 3
Liquid Level Controller



Supply Gas
Regulator



Pneumatic Level Switch, used as a low level shut-down



Double-Acting Low Pressure Control Valve, used as a burner control valve



Temperature Controller



ELECTRIC PILOT

Provides precise valve regulation for flow control.

- Features:** PID for direct or indirect control, PID auto-tune, ON-OFF control for shutdown applications, low power, Class 1, Div. 1 explosion-proof rating, discrete I/O
- Input voltage:** 10-30 VDC
- Communication:** MODBUS RS-485
- Analog input:** 4-20mA from sensor
- Analog output:** 4-20mA to valve actuator

OTHER OPTIONS



VALVCON ELECTRIC ACTUATOR SHOWN WITH R2L ADAPTER

- Features:** Open-yoke design, standard coupling block and mounting hardware to valve, weather-tight, maintenance free design
- Size:** 1" and 2"

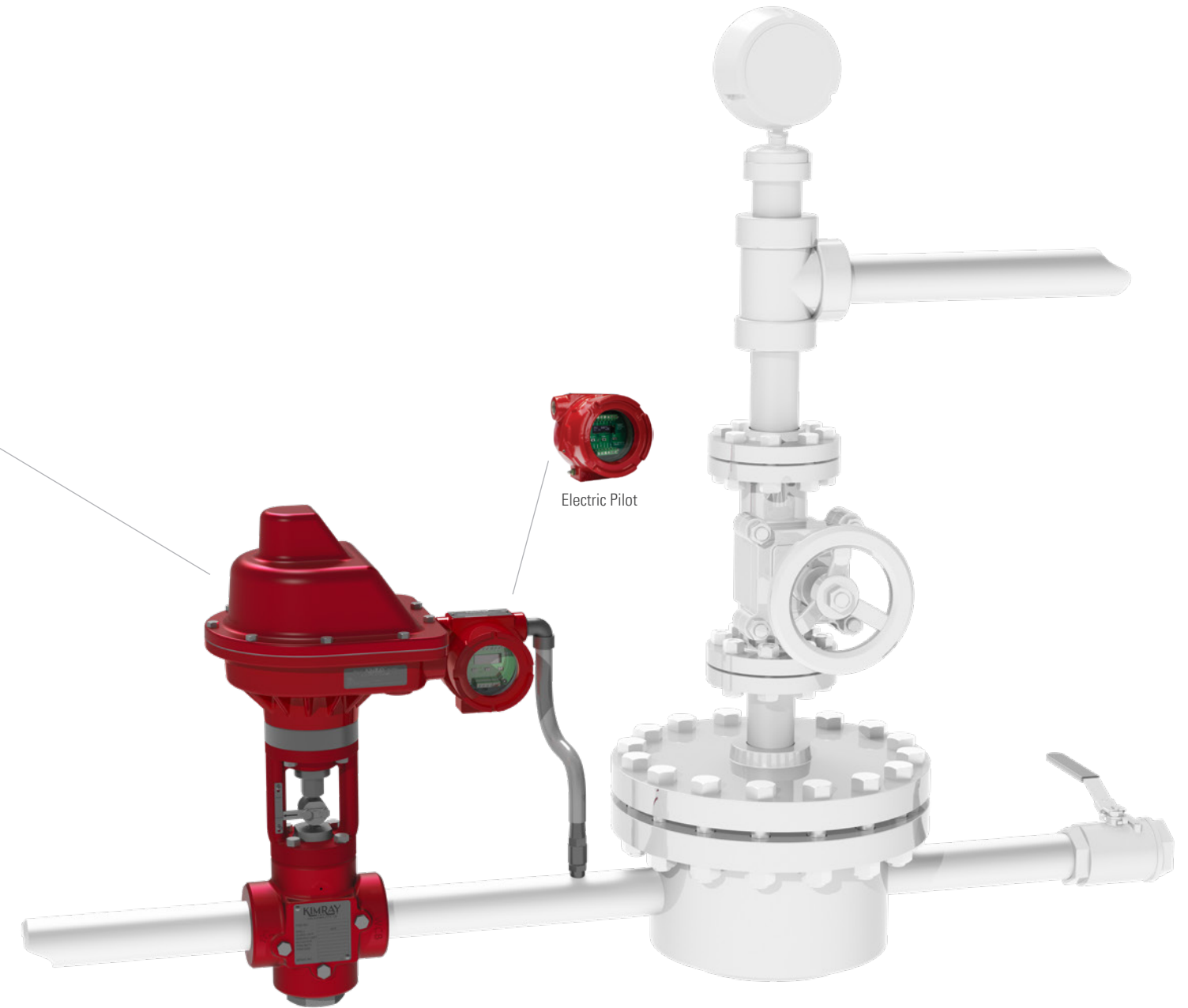


ELECTRIC ACTUATOR

Provides efficient, zero-emission control.

- Voltage:** 12-24VDC
- Rating:** Class 1 Zone 1
- Speed:** Up to 1/2" per second
- Bottom Works:** 1" - 10"
- Connections:** (2) 1/2" NPT (2) 3/4" NPT
- Max LBF:** 2300lbs

T-Body HPCV available for erosive applications



Electric Pilot



LOW PRESSURE BACK PRESSURE REGULATOR

Control pressure upstream of your production vessel/tank and feature lower set point options than the standard Back Pressure Regulator.

Size: 1" to 6"

Pressure Rating: Up to 300 psig

Control Range: 0.5 oz to 20 psig

Temperature Range: -20° to 450° F

Material: Ductile, WCB

Connections: NPT, Flanged, Grooved





KIMRAY CUSTOMER PROMISE

“We promise to partner with you, to anticipate your needs, and to provide timely solutions that exceed your expectations.”

We can make this promise because of our Extreme Customer Service philosophy.

Extreme Customer Service is not only meeting our customers’ needs but anticipating them to the best of our ability and going a step beyond. It is serving our customers with their best interests in mind. This is not only the way we treat external customers, but also the way we treat each other—our internal customers.

Extreme Customer Service is described in Philippians 2:3-4: “Do nothing from selfish ambition or conceit, but in humility count others more significant than yourselves. Let each of you look not only to his own interests, but also to the interests of others.”

This leads to three basic principles we strive to follow here at Kimray when dealing with other team members, distributors, and customers.

1. Do the right thing for the right reason: “Do nothing from selfish ambition or conceit...”
2. Encourage a culture of empowered people: “...but in humility count others as more significant than yourselves.”
3. Put others first: “Let each of you look not only to his own interests, but also to the interests of others.”

