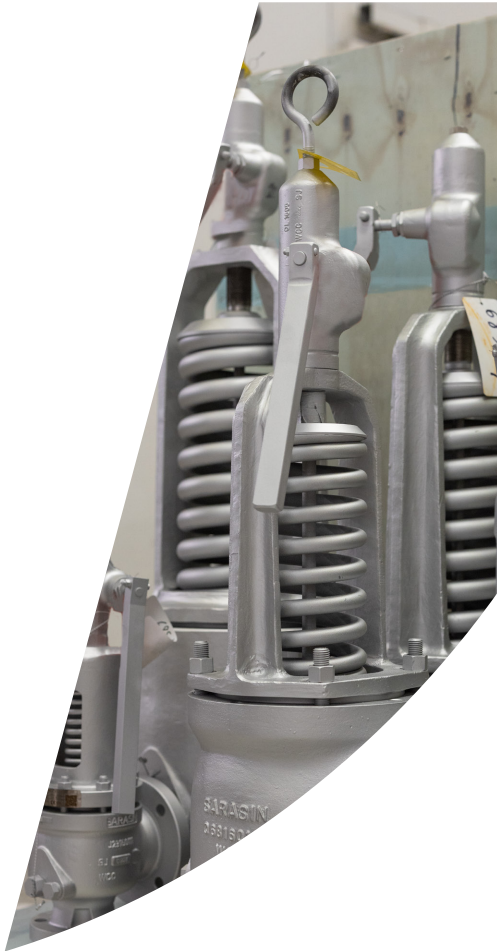
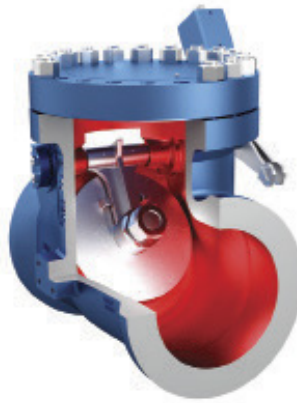


# VALVE PORTFOLIO



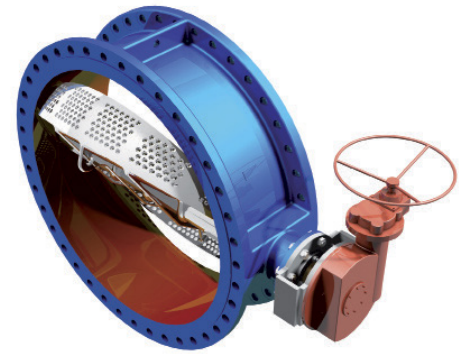
## ATWOOD & MORRILL®

Engineered Isolation &  
Check Valves



## BATLEY VALVE®

Butterfly Valves



## BLAKEBOROUGH®

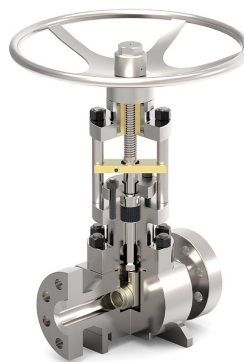
Control, Choke, & Steam  
Conditioning Valves

## HOPKINSONS®

Isolation Valves

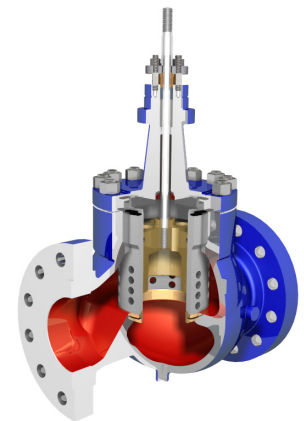
## MAC®

Rotary Gate Valve



## RED POINT®

Ball, Gate, Globe, Check,  
and Double Block & Bleed valves



## SARASIN-RSBD®

Safety & Safety Relief  
Valves

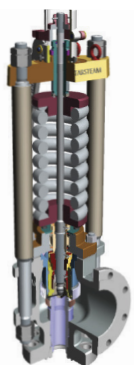
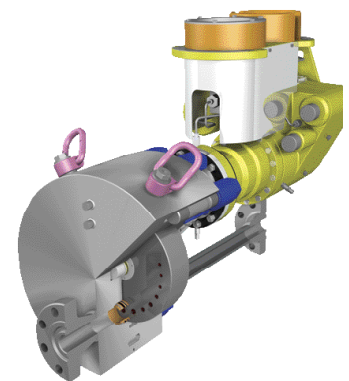
## SEBIM®

Nuclear Pilot Operated  
Safety Valves



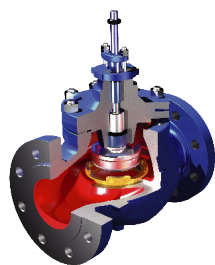
## TRICENTRIC®

Triple Offset Butterfly  
Valves



**BLAKEBOROUGH®**

General Service



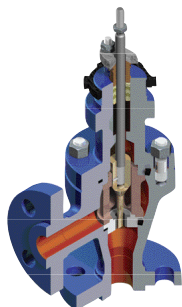
**Features**

- Top and bottom guided
- Contour trim
- Low pressure applications

**Class** - ASME 150-600  
**Sizes** - 1 1/2" - 6" (40mm-150mm)

**BLAKEBOROUGH®**

Small Size Control



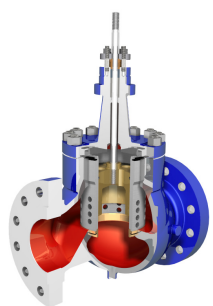
**Features**

- Low Cv control
- High pressure drop
- Cage & seat guided
- Suitable for all applications
- Multi-stage trims available

**Class** - ASME 150-4500  
**Sizes** - 1/2" - 1" (15mm-25mm)

**BLAKEBOROUGH®**

Cage Guided Control



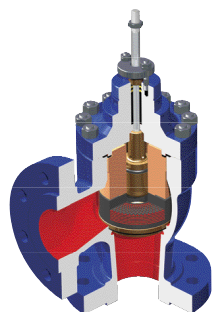
**Features**

- Stable cage guiding
- Single & multi-stage trims
- Used to eliminate effects of cavitation, flashing, noise & medium pressure drops

**Class** - ASME 150-4500  
**Sizes** - 1 1/2" - 36" (40mm-900mm)

**BLAKEBOROUGH®**

X-Stream™ Severe Service



**Features**

- Stable cage guiding
- Trim velocity control
- Patented flow path
- Used in high pressure drop applications

**Class** - ASME 150-4500  
**Sizes** - 2" - 24" (50mm-600mm)

**BLAKEBOROUGH®**

Double Seated Control



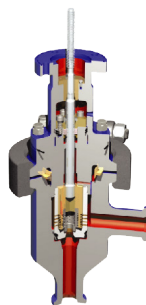
**Features**

- Top and bottom guided
- Contour trim
- Double seated valve for high capacities
- Ideal for mixing applications

**Class** - ASME 150-1500  
**Sizes** - 1 1/2" - 36" (40mm-900mm)

**BLAKEBOROUGH®**

Choke



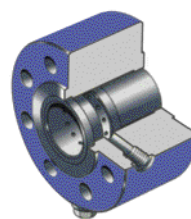
**Features**

- Stable cage guiding
- Erosion resistance
- Tungsten carbide trims
- High pressure drop control
- API designs available

**Class** - ASME 150-4500  
**Sizes** - 1" - 24" (25mm-600mm)

**BLAKEBOROUGH®**

Mini Desuperheater



**Features**

- Steam conditioning for small pipe sizes
- Separate water control

**Class** - ASME 150-2500  
**Sizes** - 1/2" - 12" (15mm-300mm)

**BLAKEBOROUGH®**

Pipe Desuperheater



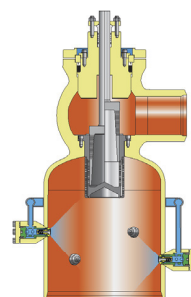
**Features**

- Integrated water control
- Atomising nozzles
- Water is injected along the pipe centreline

**Class** - ASME 150-2500  
**Sizes** - 6" - 36" (150mm-900mm)

**BLAKEBOROUGH®**

Turbine Bypass



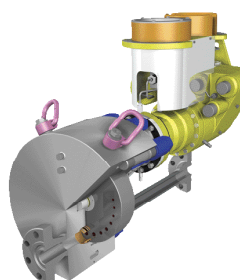
**Features**

- Pressure reducing & desuperheating as an integral unit
- Noise & stable pressure control
- Water atomising nozzles

**Class** - ASME 150-4500  
**Sizes** - 1 1/2" - 36" (40mm-900mm)

**MAC®**

Rotary Gate



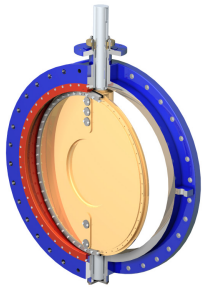
**Features**

- No displaced volume or cavity
- Straight through design: no bends
- Adaptable for isolation, chemical injection & throttling

**Class** - API 3000-15000  
**Sizes** - 1" - 6" (25mm-150mm)

## BATLEY VALVE®

Softseal



## Features

- Low cost option for low temperature water sealing
- Rubber seal located on valve disk
- Single & double offset designs

**Class** - ASME 150-600  
**Sizes** - 6" - 80" (150mm-2000mm)

## A&amp;M FREE FLOW®

Reverse Current



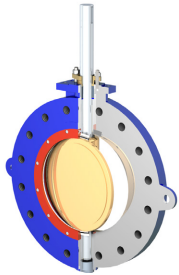
## Features

- Free-swinging disk allows independent movement with assured closure
- Inclined seat design
- Self aligning disk & disk arm

**Class** - ASME 150-1500  
**Sizes** - 3" - 48" (80mm-1200mm)

## BATLEY VALVE®

Hyperseal/Metalseal



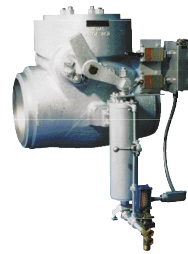
## Features

- Single & double offset designs
- Seal clamped into valve body
- Resilient seated, metal seated, fire safe, & swing through options

**Class** - ASME 150-900  
**Sizes** - 3" - 64" (80mm-1600mm)

## ATWOOD &amp; MORRILL®

Boiler Feed Check



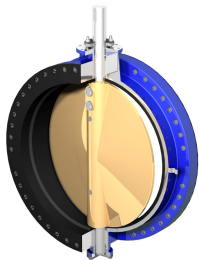
## Features

- Double protection including positive closure & power-assisted closure
- Streamlined flow passages minimizes pressure drop

**Class** - ASME 900-2500  
**Sizes** - 4" - 24" (100mm-600mm)

## BATLEY VALVE®

Rubber Lined



## Features

- Low cost solution for controlling low temperature corrosive fluids
- Body & shaft material fully isolated from fluid

**Class** - ASME 150-300  
**Sizes** - 3" - 64" (80mm-1600mm)

## ATWOOD &amp; MORRILL®

Compressor Check



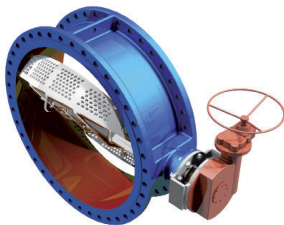
## Features

- Tight sealing pressure
- Low pressure drop
- Power-assisted
- Quick closure

**Class** - ASME 150-300  
**Sizes** - 8" - 56" (200mm-1400mm)

## BATLEY VALVE®

Anti-Cavitation Disk



## Features

- Swing through & Hyperseal designs
- Anti-cavitation cowl to prevent cavitation at reduced valve openings

**Class** - ASME 150-2500  
**Sizes** - 4" - 64" (100mm-1600mm)

## ATWOOD &amp; MORRILL®

Wye Type Check



## Features

- Stop check, stop, lift check, MSIV
- Y for lower pressure loss
- Bevelled seats for tight sealing
- Large seat bore for reduced pressure drop
- Forged or cast body

**Class** - ASME 900-2500  
**Sizes** - 6" - 24" (150mm-600mm)

## TRICENTRIC®

Triple Offset Butterfly



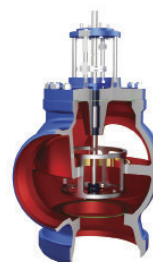
## Features

- Metal seat design
- Long life seats
- Bi-directional tight sealing
- API 598 - zero leakage

**Class** - ASME 150-900  
**Sizes** - 2" - 120" (40mm-3048mm)

## ATWOOD &amp; MORRILL®

Three Way



## Features

- Allow two different flow directions from the same valve
- Simplifies piping layout
- Installation & maintenance savings

**Class** - ASME 150-2500  
**US Sizes** - 6" - 24" (150mm-600mm)  
**UK Sizes** - 2" - 24" (40mm-600mm)

## HOPKINSONS®



## Full Bore Parallel Slide

## Features

- Full bore straight through design
- Complete flow isolation in either direction
- Suitable for any temperature

**Class** - ASME 150-3100  
**Sizes** - 1/2" - 36" (15mm-900mm)

## HOPKINSONS®



## Flexi-Wedge Gate

## Features

- Bonnet over-pressure protection
- Flexible wedge design
- Precision body guides
- Bi-directional operation

**Class** - ASME 150-2500  
**Sizes** - 3" - 24" (80mm-600mm)

## HOPKINSONS®



## Venturi Parallel Slide

## Features

- Smooth transitional flow
- Anti-vibration disk arrangement
- Minimum pressure drop
- Self aligning disks
- Sealing achieved by fluid

**Class** - ASME 150-3100  
**Sizes** - 1/2" - 26" (15mm-650mm)

## HOPKINSONS®



## Globe Isolation

## Features

- High integrity shut-off
- Patented high grade nickel alloy seats
- Linear rising stem

**Class** - ASME 2500-3100  
**Sizes** - 1/2" - 2" (15mm-50mm)

## HOPKINSONS®



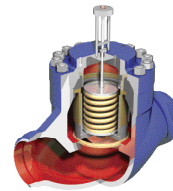
## Forged Parallel Slide

## Features

- Superior forged material
- Ideal for high temperatures
- Minimum pressure drop
- Isolation in both directions

**Class** - ASME 900-4500  
**Sizes** - 3" - 26" (80mm-650mm)

## HOPKINSONS®



## Feed Heater Bypass

## Features

- Recognized industry standard for extraction steam turbine protection
- Positive, tight sealing, fast closure, & low pressure drop

**Class** - ASME 900-2500  
**Sizes** - 1" - 36" (25mm-900mm)

## HOPKINSONS®



## High Performance Drain

## Features

- Can be installed singly or in a master and martyr configuration
- Winged seats
- Square gates

**Class** - ASME 900-3600  
**Sizes** - 3/4" - 4" (20mm-100mm)

## RED POINT®



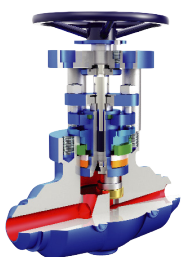
## Gates

## Features

- Solid wedge, flex-wedge, parallel slide, through conduit
- Standard, bolted bonnet, pressure seal bonnet
- Low fugitive emission
- Different hard facing
- Exotic and commodity material

**Class** - ASME 150 - 4,500  
**Sizes** - .25" - 16" (8mm-400mm)

## HOPKINSONS®



## Uniflow Slide

## Features

- Globe design with parallel slide design seating technology
- Ideal for isolation in small process lines
- Uni-directional sealing

**Class** - ASME 2500-3100  
**Sizes** - 3/8" - 2" (10mm-50mm)

## RED POINT®



## Globes

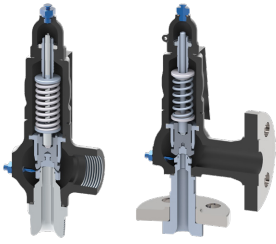
## Features

- Y-type, Pressure seal
- Bonnet and angle globe
- Low fugitive emission
- Exotic and commodity material

**Class** - ASME 150 - 4,500  
**Sizes** - .25" - 16" (8mm-400mm)

**SARASIN-RSBD®**

9 Series



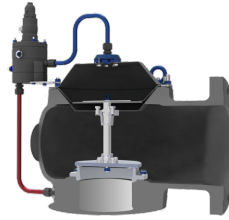
**Features**

- Thermal expansion
- Full nozzle
- Conventional or balanced
- Metal or soft seat
- Adjustable blowdown

**Class** - ASME & API 150-2500  
**Sizes** - 1/2" - 1 1/2" (15mm-40mm)

**SARASIN-RSBD®**

74VP/LP Series



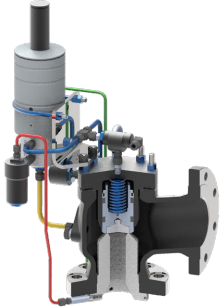
**Features**

- Tank storage protection
- Semi nozzle
- High seat tightness

**Class** - ASME & API 150-300  
**Sizes** - 2" - 14" (50mm-350mm)

**SARASIN-RSBD®**

76 & 78 Series



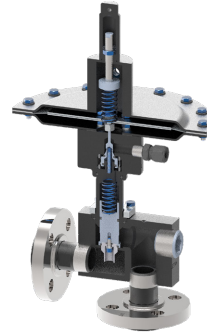
**Features**

- Full & Semi Nozzle
- API STD 526 standardized dimensions
- Non-flowing, pop, or modulating action pilots

**Class** - ASME & API 150-2500  
**Sizes** - 1" - 12" (25mm-300mm)

**SARASIN-RSBD®**

77 Series



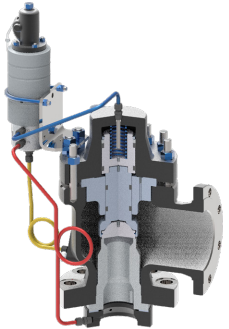
**Features**

- Tank storage protection
- Avoid tank corrosion

**Class** - ASME & API 150-300  
**Sizes** - 1/2" - 1" (15mm-25mm)

**SARASIN-RSBD®**

76E Series Stareco™



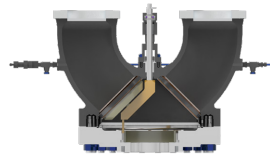
**Features**

- Economizer applications (water & steam)
- Thermoglide® anti-seizing capabilities

**Class** - ASME 150-2500  
**Sizes** - 1" - 12" (25mm-300mm)

**SARASIN-RSBD®**

RS Series

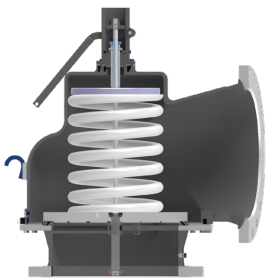


**Features**

- Changeover valves for plant maintenance
  - Less than 3% pressure drop
- Class** - 150 through 600  
**Single way** - 2" - 2 x 2" through 10" - 2 x 10"  
**Dual way** - 2" - 2 x 1" through 10" - 2 x 8"

**SARASIN-RSBD®**

MBP



**Features**

- Low pressure steam - Turbines and Condensers
- Watersealed soft seated
- High seat tightness

**Class** - 150 through 2500  
**Sizes** - 6" - 30" (150mm-750mm)

**SEBIM®**

TSV 2000 Nuclear POSV

NUCLEAR POSV



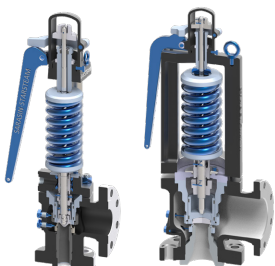
**Features**

- Excellent operation for: steam, gas, liquid, or two-phase
- Design standard: RCC-M level 1, IEEE, NNSA
- Applications: primary or secondary circuits

**Class** - ASME 150-2500  
**Sizes** - 4" - 6" (100mm-150mm)

**SARASIN-RSBD®**

STARSTEAM® & STARFLOW-V™



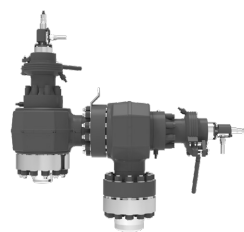
**Features**

- Boiler steam - low/medium/high pressure
- Thermoglide® anti-seizing capabilities
- Stardisc high seat tightness
- In-situ testing ready

**Class** - 150 through 2500  
**Sizes** - 1 1/2" - 12" (40mm-300mm)

**SEBIM®**

PRG 2000 Nuclear POSV

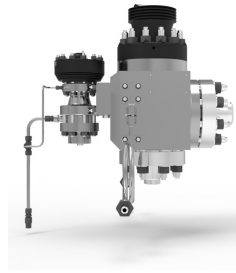


**Features**

- Alternative version of TSV 2000
- Excellent operation for: steam, gas, liquid, or two-phase
- Design standard: RCC-M level 1, IEEE, NNSA
- Applications: primary circuit

**Class** - ASME 150-2500  
**Sizes** - 4" - 6" (100mm-150mm)

## SEBIM®



## Nuclear POSV

## Features

- Alternative version of TSV 2000
- For steam, gas, liquid, or two-phase
- Design standards: RCC-M level 1, ASME section III Sub.NB Class 1, OTT, IEEE, NNSA
- Applications: primary or secondary circuit
- Alternative version of TSV 2000

**Class** - ASME 150-2500

**Sizes** - 4" - 16" (100mm-400mm)

## RED POINT®



## Bellow Sealed

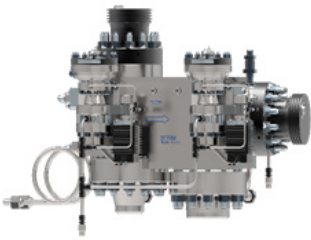
## Features

- Gate and globe
- Non-rotating stem prevents torsion of bellows
- Exotic and commodity material

**Class** - ASME 150 - 4,500

**Sizes** - .25" - 16" (8mm-400mm)

## SEBIM®



## Nuclear POSV

## Features

- Compact design
- For steam, gas, liquid or two-phase
- Design standards: RCC-M level 1, ASME section III Sub.NB Class 1, OTT, IEEE, NNSA
- Applications: primary or secondary circuit

**Class** - 150 through 2500

**Sizes** - 2" - 8" (50mm-200mm)

## RED POINT®



## Ball

## Features

- Floating or trunnion mounted
- Seats - Soft or metal seated
- Extended bonnet, Lipseals, Heating Jacket
- Low fugitive emission, fire safe design

**Class** - ASME 150 - 4,500

**Sizes** - .25" - 16" (8mm-400mm)

## SEBIM®



## Nuclear POSV

## Features

- For containment cold and hot overpressure protection on steam, water, gas, or steam & water
- Design standards: RCC-M level 1, ASME section III Sub. NB Class 1, OTT, IEEE, NNSAK1 - 1E
- Applications: primary circuit

**Class** - 150 through 2500

**Sizes** - 1" - 16" (25mm-400mm)

## RED POINT®



## Check

## Features

- Piston, swing, ball, dual plate, nozzle
- Low fugitive emission
- Exotic and commodity material

**Class** - ASME 150 - 4,500

**Sizes** - .25" - 16" (8mm-400mm)

## SEBIM®



## Nuclear POSV

## Features

- Compact design for SMR
- For steam, gas, liquid, or two-phase
- Design standards: RCC-M level 1, ASME section III Sub.NB Class 1, OTT, IEEE, NNSA
- Applications: primary circuit

**Class** - 150 through 2500

**Sizes** - 1/2" - 1 1/2" (15mm-40mm)

## RED POINT®



## Double Block and Bleed

## Features

- Floating or trunnion mounted
- Seats - Soft or metal seated
- Extended bonnet, Lipseals, Heating Jacket
- DBB-DIB1-DIB2 as per API6D
- Low fugitive emission, fire safe design
- Exotic and commodity material

**Class** - ASME 150 - 4,500

**Sizes** - .25" - 16" (8mm-400mm)

## SEBIM®



## Nuclear POSV

## Features

- For steam, gas, liquid, or two-phase
- Design standards: RCC-M level 2, ASME section III Sub.NB Class 2, OTT, IEEE, NNSA
- Applications: secondary circuit (steam generator)

**Class** - 150 through 2500

**Sizes** - 1" - 16" (25mm-400mm)

## RED POINT®






















## Non-Commodity

## Features





















- Designed, calculated, produced and tested according to customer requirements
- 3-4 way ball valves
- Exotic and commodity material





**Class** - ASME 150 - 4,500

**Sizes** - .25" - 16" (8mm-400mm)

		APPLICATION																MANUFACTURING LOCATION						
		Acid Service	Chemical Processing	Corrosive Gases	Cryogenic	Fire Protection	Gas Pressure	Marine Seawater	Molten Salt	Oil & Gas	Petrochemical	Pharmaceuticals	Power Generation	Water Treatment	Steam Pressure	Steam Conditioning	Subsea	Nuclear	China	UK	France	Netherlands	South Korea	USA
	<b>ISOLATION VALVES</b>		•				•				•	•	•		•			•		•				•
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	<b>SAFETY VALVES</b>	•	•	•	•	•		•	•	•	•	•	•	•	•				•		•			
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	<b>BALL, DOUBLE BLOCK AND BLEED, NON-COMMODITY VALVES</b>	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•					•		
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		APPLICATION																	MANUFACTURING LOCATION						
		Acid Service	Chemical Processing	Corrosive Gases	Cryogenic	Fire Protection	Gas Pressure	Marine Seawater	Molten Salt	Oil & Gas	Petrochemical	Pharmaceuticals	Power Generation	Water Treatment	Steam Pressure	Steam Conditioning	Subsea	Nuclear	China	UK	France	Netherlands	South Korea	USA	
	<b>CONTROL VALVES</b>																								
		GENERAL SERVICE	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
		SMALL SIZE	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
		CAGE GUIDED	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
		SEVERE SERVICE	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
		CONTOUR TRIM	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
		CHOKE	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
		ROTARY GATE	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
		MINI DESUPERHEATER	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
		PIPE DESUPERHEATER	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	<b>BUTTERFLY VALVES</b>																								
		SOFTSEAL	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
		HYPERSEAL/ METALSEAL	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
		RUBBER LINED	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
		ANTI-CAVITATION	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	<b>CHECK VALVES</b>																								
		A&M FREE FLOW® REVERSE CURRENT	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
		BOILER FEED CHECK	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
		COMPRESSOR CHECK	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
		WYE TYPE	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

		APPLICATION																MANUFACTURING LOCATION						
		Acid Service	Chemical Processing	Corrosive Gases	Cryogenic	Fire Protection	Gas Pressure	Marine Seawater	Molten Salt	Oil & Gas	Petrochemical	Pharmaceuticals	Power Generation	Water Treatment	Steam Pressure	Steam Conditioning	Subsea	Nuclear	China	UK	France	Netherlands	South Korea	USA
	<b>DUAL PLATE</b>	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●						●		
	<b>NOZZLE</b>	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●					●		
	<b>PISTON</b>	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●					●		
	<b>SWING</b>	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●					●		



SITE SERVICE	WORKSHOP SERVICES	SERVICE PLANS
Outage, shutdown, and turnaround management	Mechanical valve overhaul and refurbishment	24-hour customer service number
Overhaul and refurbishment	Valve pressure testing	48-hour service response engineer
Installation and commissioning	Upgrades and modifications	Long term service agreement
In-site valve seat replacement	Control valve service, maintenance, and monitoring	Embedded engineering programmes
In-situ testing and monitoring	Actuator servicing and torque testing	Asset management
Turnkey project management	Service exchange programs for valves and actuators	Bespoke service management





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