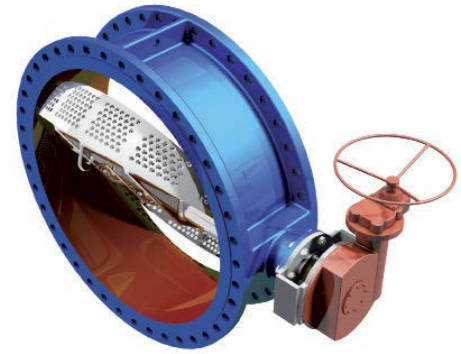
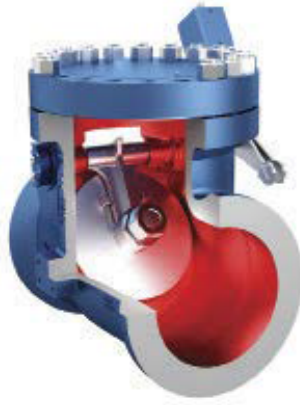


VALVE PORTFOLIO



ATWOOD & MORRILL®

Engineered Isolation & Check Valves



BATLEY VALVE®

Butterfly Valves

BLAKEBOROUGH®

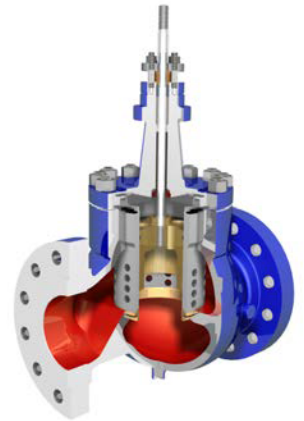
Control, Choke, & Steam Conditioning Valves

HOPKINSONS®

Isolation Valves

MAC®

Rotary Gate Valve



RED POINT®

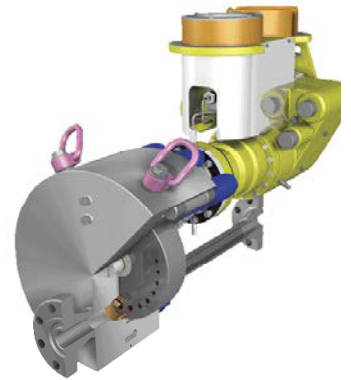
Ball, Gate, Globe, Check, and Double Block & Bleed Valves

SARASIN-RSBD®

Safety & Safety Relief Valves

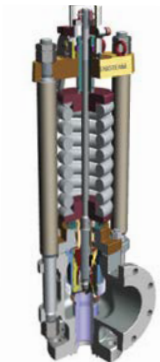
SEBIM®

Nuclear Pilot Operated Safety Valves



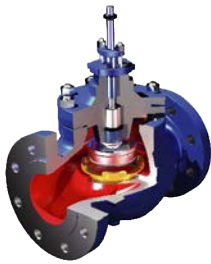
TRICENTRIC®

Triple Offset Butterfly Valves



BLAKEBOROUGH®

General Service



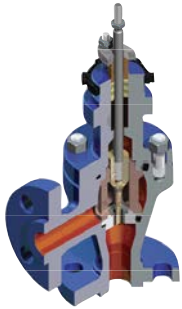
Features

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

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

BLAKEBOROUGH®

Small Size Control



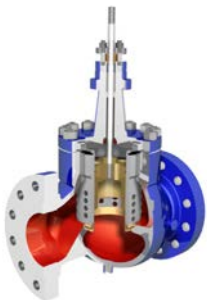
Features

- 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



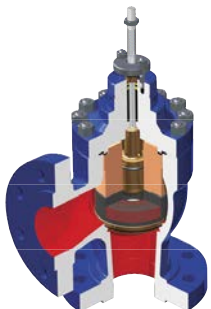
Features

- 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



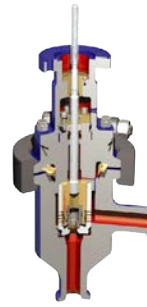
Features

- 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



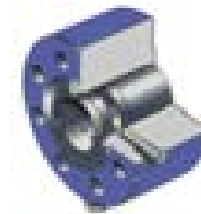
Features

- 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



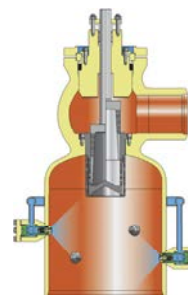
Features

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

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

BLAKEBOROUGH®

Turbine Bypass



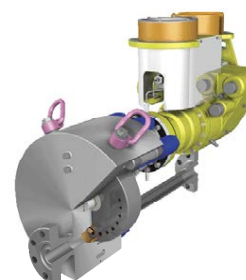
Features

- 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

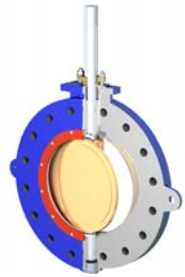
**Features**

- 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)

BATLEY VALVE®

Hyperseal/Metalseal

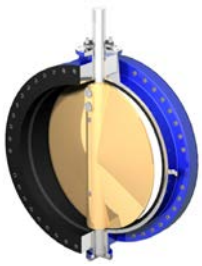
**Features**

- 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)

BATLEY VALVE®

Rubber Lined

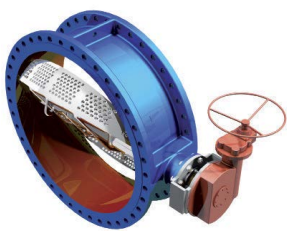
**Features**

- 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)

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)

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)

A&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)

ATWOOD & 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)

ATWOOD & MORRILL®

Compressor Check

**Features**

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

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

ATWOOD & 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)

ATWOOD & 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®



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®



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®



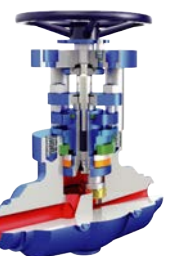
High Performance Drain

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)

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)

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®



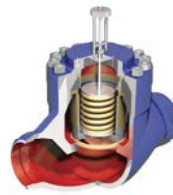
Globe Isolation

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®



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)

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)

RED POINT®



Globes

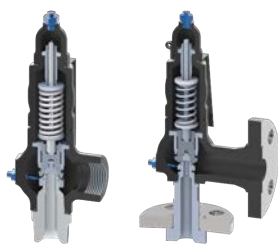
Features

- 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

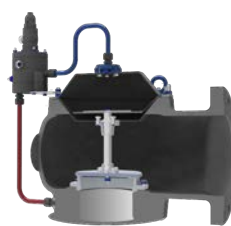
**Features**

- 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

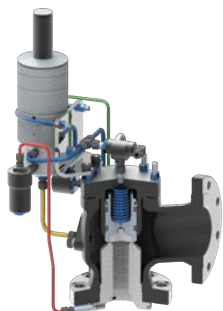
**Features**

- 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

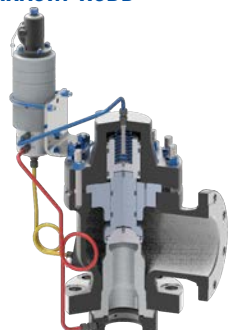
**Features**

- 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

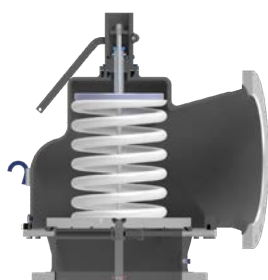
**Features**

- 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

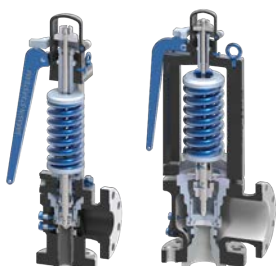
**Features**

- 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™

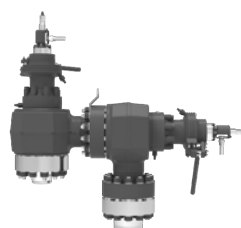
**Features**

- 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®

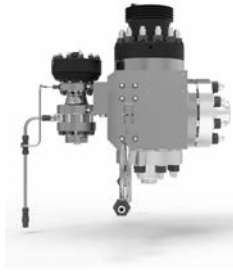
PRG 2000 Nuclear POSV

**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

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

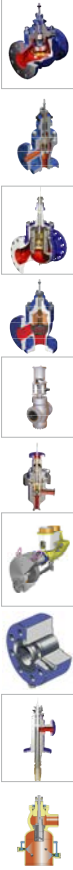


Features





- 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		
	ISOLATION VALVES	FULL BORE PARALLEL SLIDE		•			•				•	•	•		•			•	•	•				•		
		VENTURI PARALLEL SLIDE		•				•			•	•	•		•			•	•	•						
		FORGED PARALLEL SLIDE		•				•				•	•	•		•			•	•	•				•	
		HIGH PERFORMANCE DRAIN												•		•			•	•	•					
		UNIFLOW SLIDE												•		•				•						
		FLEXI-WEDGE GATE	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•				•			
		GLOBE ISOLATION	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•		•	
		THREE WAY	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•				•	
		FEED HEATER BYPASS												•					•	•	•					
		LOW PRESSURE WEDGE GATE	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•			•			
	HIGH PRESSURE WEDGE GATE	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•					•				
	SAFETY VALVES	SPRING LOADED SAFETY RELIEF	•	•	•	•		•	•	•	•	•	•	•	•				•		•					
		SPRING LOADED SAFETY											•		•						•					
		PILOT OPERATED SAFETY RELIEF	•	•	•	•	•	•	•	•	•	•	•	•	•	•						•				
		PILOT OPERATED SAFETY	•	•	•	•	•	•	•	•	•	•	•	•	•	•						•				
		NUCLEAR PILOT OPERATED	•	•	•	•	•		•	•	•	•	•	•	•	•			•			•				
	BALL, DOUBLE BLOCK AND BLEED, NON-COMMODITY VALVES	2 PIECE TRUNNION BALL	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•					•				
		3 PIECE TRUNNION BALL	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•					•			
		DOUBLE BLOCK AND BLEED	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•					•			
		NON-COMMODITY	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			•		•		•	

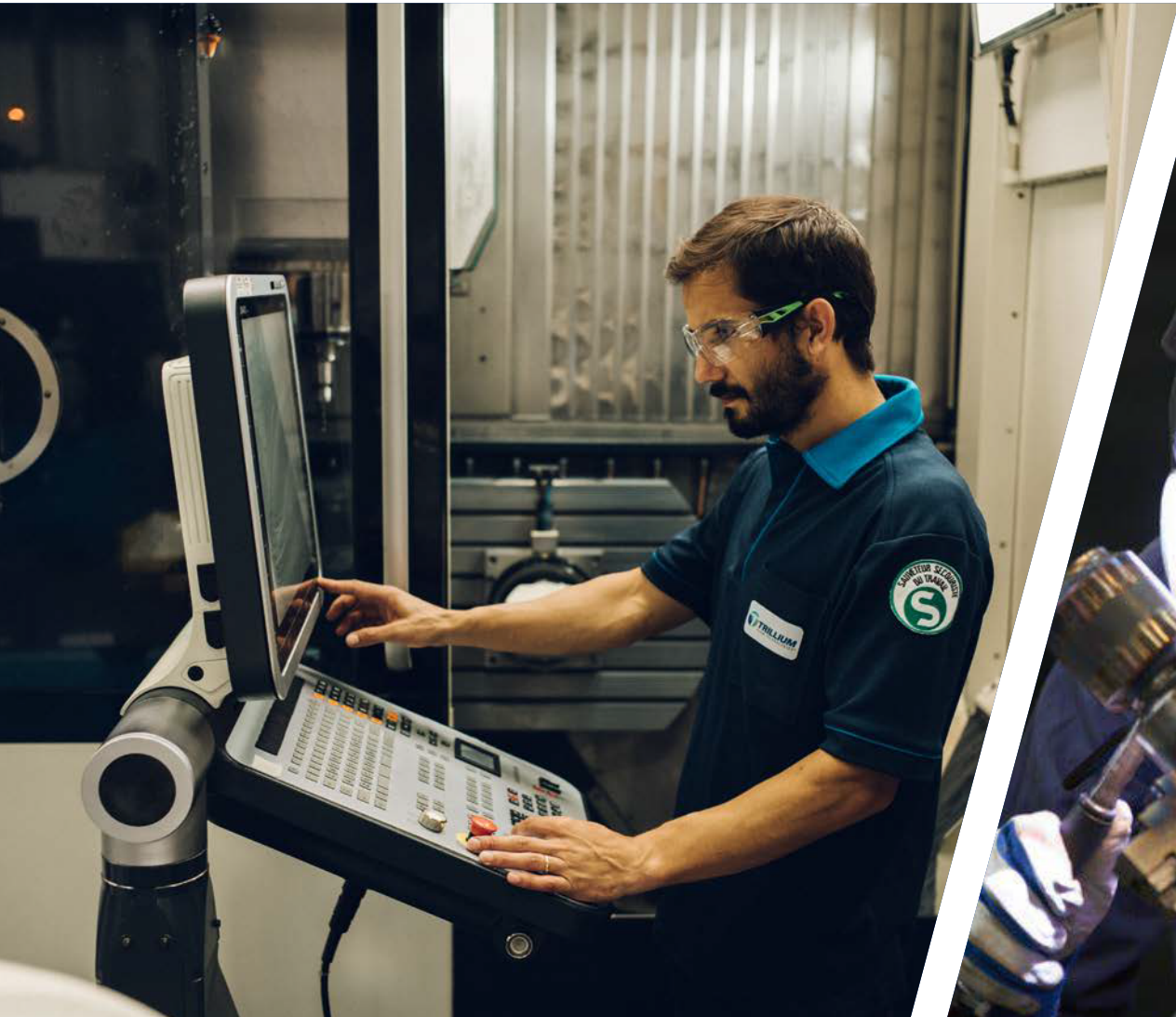
		APPLICATION																MANUFACTURING LOCATION									
		Acid Service	Chemical Processing	Corrosive Gases	Cryogenic	Fire Protection	Gas Pressure	Marine Seawater	Molten Salt	Oil & Gas	Petrochemical	Pharmaceuticals	Power Generation	Water Treatment	Steam Pressure	Steam Conditioning	Subsea	Nuclear	China	UK	France	Netherlands	South Korea	USA			
	CONTROL VALVES																										
	GENERAL SERVICE	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•	•		•					
	SMALL SIZE	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			•	•			
	CAGE GUIDED	•	•	•	•		•	•	•	•	•	•	•		•	•		•	•	•			•				
	SEVERE SERVICE	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•	•			
	CONTOUR TRIM	•	•	•	•		•	•	•	•	•	•	•		•	•				•				•			
	CHOKE			•			•	•		•											•						
	ROTARY GATE									•							•				•						
	MINI DESUPERHEATER				•									•		•					•				•		
	PIPE DESUPERHEATER				•									•		•					•				•		
	BUTTERFLY VALVES					•		•													•						
	SOFTSEAL					•		•														•					
	HYPERSEAL/ METALSEAL	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•				•						
	RUBBER LINED			•					•	•											•						
	ANTI-CAVITATION	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•						
	TRICENTRIC®	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•						•	
	CHECK VALVES		•				•	•	•		•		•		•			•	•	•				•	•		
	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
	DUAL PLATE	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●						●		
	NOZZLE	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●						●		
	PISTON	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●						●		
	SWING	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●						●		



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 programme
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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