



Valve & Automation

Total Valve & Control Solutions®

CELEBRATING
40 YEARS

PRODUCT SUMMARY

- Control Valves •
- Manual Valves •
- On/Off Valves •
- Regulators •
- Rupture Discs •
- Safety Valves •
- Tank Equipment •
- Valve Actuators •
- Valve Positioners •
- Valve Repairs •

BALL VALVES		BUTTERFLY VALVES
 PIBIVIESSE	 NAF	 RICHTER
Trunnion Ball Metal Seats	High Performance Butterfly	Lined Butterfly Valves
Up to DN1050 (42") PN420 (ANSI 2500) High performance forged steel Fire-safe / Spring-loaded seats Severe service process applications	Up to DN1000 (40") PN40 (ANSI 300) Inconel and PTFE seats Stainless steel body and disc Liquids / Gases / Steam applications	Up to DN1000 (40") PN10 (ANSI 150) 3 to 3,5 mm thick PTFE linings External corrosion protection Acids and other corrosive media

CONTROL VALVES - LINEAR		
 ARCA	 ARCA	 RICHTER
Steam Conditioning	Globe Control Valves	Lined Globe Valves
Up to DN800 (32") PN400 (ANSI 2500) Steam atomising nozzle system Low noise multi-stage trim Pressure reduction & desuperheating	Up to DN800 (32") PN250 (ANSI 1500) CS / SS / Special alloys / Stellite Low noise & cavitation control trims Liquids / Gases / Steam applications	Up to DN 150 (6") PN16 (ANSI 150) DI/ CS lined with PFA / FEP / PVDF Heavy duty or Hastelloy bellows Acids and other corrosive media

CONTROL VALVES - ROTARY		
 NAF	 NAF	 NAF
High Performance Butterfly	V-Shaped Ball	Split Body Floating Ball
Up to DN1000 (40") PN40 (ANSI 300) Inconel and PTFE seats Stainless steel body and disc Liquids / Gases / Steam applications	Up to DN500 (20") PN40 (ANSI 300) 'V' shaped ball for accurate control Stainless steel / Hard chrome / Stellite Process industry control applications	Up to DN800 (32") PN40 (ANSI 300) PTFE / Metal seats / Trunnion option SS / Hard chrome / Stellite ball-seats Liquids / Gases / Steam applications

CONTROL VALVES - ROTARY

		
Eccentric Plug / Rotary Globe Up to DN200 (8") PN100 (ANSI 600) CS / SS / Special alloys / Stellite Low noise & cavitation control trims Liquids / Gases / Steam applications	TOV / Triple Offset Up to DN2200 (88") PN160 (ANSI 1500) Zero leakage / Metal seats / Fire safe Self-centering disc / Torque seated Sil 3 - Severe service & ESD	TOV / Cavitation Trim Up to DN900 (36") PN100 (ANSI 900) Low noise / Anti cavitation Severe service applications for liquids, steam or gases

DESUPERHEATERS

HIGH PRESSURE VALVES

		
Injection Desuperheaters Easy installation DN80 (3") flange Rangeability up to 50:1 No separate control valve required Steam temperature reduction	Gate Valves Up to DN600 (24") PN500 (ANSI 2500) Gate / Globe / Check Valves / Parallel Slide Gate / Forged Steel Body / Seat & disc in Alloy 6 welded overlay	Globe Valves High pressure forged steel Up to DN50 (2") PN640 (ANSI 2500) End connections SW / BW / NPT Electric or pneumatic actuators

KNIFE GATE VALVES

		
Standard Knife Gate Up to DN1200 (48") PN10 (ANSI 150) CI / CS / SS body material PTFE / EPDM / Viton / Nitrile seats Slurries / Powder / Pulp < 5%	Mining Slurry Knife Gate Up to DN900 (36") Up to 50 bar dp Body Nodular Iron / Gate SS - Duplex EPDM / Natural rubber seats Mining & mineral processing slurries	Through Going Knife Gate Up to DN1200 (48") PN10 (ANSI 150) CI / SS body material PTFE / EPDM / Polyurethane seats Slurries / Black liquor / Pulp > 5%

LINED CORROSION RESISTANT PUMPS & VALVES

 RICHTER	 RICHTER	 RICHTER
Lined Ball Valves	Lined Magnetic Drive Pumps	Lined Plug Valves
Up to DN200 (8") PN25 (ANSI 150) DI lined with PFA / FEP / PVDF V-ball & ceramic options Acids and other corrosive media	MNK Heavy duty magnetic drive pump PTFE and PFA linings for chemicals Up to 600 m3/hr and 95m head With SAFERUN pump monitoring	Up to DN150 (6") PN25 (ANSI 150) DI lined with PFA / PTFE / PFA-P Sleeved plug valve to ANSI 300 Acids and other corrosive media

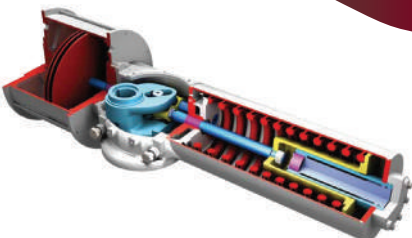
RECIRC. VALVES	REGULATORS	RUPTURE DISCS
 SCHROEDER	 CASHCO	 STRIKO
Reliable Pump Protection	P.R. & B.P. Regulators	Rupture / Bursting Discs
Up to DN600 (24") PN400 (ANSI 2500) Max DP 250 bar Built-in check valve / Self-acting Protects pumps during min flow	Up to DN100 (4") / 275 bar / 315°C Pressure reducing / Back pressure CI / BRZ / CS / SS / Special alloys Liquids / Gases / Steam / Chemicals	Flat, forward acting & reverse acting Up to DN600 (14") / 90% working ratio Burst pressures from 0,02 to 200 bar.g Gases / Vapours / Liquids

SAFETY VALVES	TANK PROTECTION (VAPOUR CONTROL)	
 BESA	 CASHCO	 CASHCO
API & DIN	Pressure Vacuum Vents	Flame Arrestors
Manufactured to API 526 & EN 4126 DN15 (1/2") to DN400 (16") PN16-PN400 / ANSI 150-2500 Steam / Vapours / Gases / Liquids	Up to DN300 (12") with flame arrestor CS / SS / ATEX 114 / 2014/34/EU Tight sealing reduces losses Protects low pressure storage tanks	Up to DN400 (16") PN10 (ANSI 150) CS / SS / ATEX 114 / 2014/34/EU Deflagration / Detonation Prevents transmission of flames

TOV / TRIPLE OFFSET VALVES

		
TOV / Triple Offset Valves Isolation / On-Off / Control / ESD Torque seated / Self-centering disc Zero Leakage / Metal Seats / Fire Safe Process Gas / Steam / Hydrocarbons	TOV / Manual Isolation Up to DN2200 (88") PN160 (ANSI 1500) Zero Leakage / Metal Seats / Fire Safe Self-centering disc / Torque seated Steam / Process Gas / Hydrocarbons	TOV / Replace Gate Valves Up to DN1800 (70") ANSI 150-900 Replace old heavy leaking gate valves Better sealing, lighter & smaller Zero leakage / Metal seats / Fire safe

VALVE ACTUATORS - PNEUMATIC

		
Rack & Pinion Torques up to 6,421Nm (DN1000 bfly) Max air press 8 bar Double-acting and spring return Pre-tensioned springs for safety	High Modulating Control Torques up to 20,000Nm Double-acting and spring return Direct mounting to NAF valves No external air pipes	Pneumatic Scotch Yoke Torques up to 700,000Nm Double-acting and spring return Heavy duty for modulating control High cycle & ESD applications

VALVE POSITIONERS - INTELLIGENT

MONITORS

		
Intelligent Positioner Globe Control / 4-20mA or digital Auto-start / Self-calibration Full integration with FDT / DTM HART / Profibus PA / Fieldbus	Rotary Valve Positioner Rotary Control / 4-20mA or digital Auto-start / Self-calibration Full integration with FDT / DTM HART / Profibus PA / Fieldbus	Valve Switch Box Engineered Resin / Aluminium / SS Mech. / Proximity / Magnetic switches Prewired terminals / Touchset cams 4-20mA Position feedback



VALVE REPAIR CENTRE



- Repairs & Reconditioning
- Seat Leakage Testing
- Body Pressure Testing
- Positioner Calibration

- 10 Ton Overhead Crane
- 3 Ton Forklift & Jib Cranes
- Hydraulic Torque Wrench
- Large Laydown Area

