



SITECNA® TAILORED SOLUTIONS FOR CRYTICAL SERVICE APPLICATIONS

Fluid control components & engineered systems for the most demanding applications

Designed for low or high temperature, harshest environments, onshore or offshore installations







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MORE THAN THIRTY YEARS OF EXPERIENCE IN THE DESIGN, MANUFACTURE & SALES OF HIGH QUALITY PRODUCTS AND SOLUTIONS. 100% MADE IN ITALY

Established in 1983 as a commercial company, Sitecna has developed a very technical and high level experience in fluid control. Thanks to a very experienced team of engineers, 20 years ago we started to design and develop an innovative range of pneumatic products to satisfy the needs of operations critical for temperature, aggressive environments and classified areas.

Today, at our headquarter located near Milan, in northern Italy, we design, build and sell components and systems for chemical, petrochemical, energy and glass sector, offering our range of pneumatic equipments for the most demanding applications.

Flexible products for every application

Sitecna's products are the standard for non-standard specifications. Our know how in components and engineered systems stems from years of problem facing and solving for the most critical sectors.

Our innovative approach is strongly linked to market developments and quickly renews to meet always more strict requisitions. We carefully listen to our customers to improve efficiency and reliability of equipment and operations. Products have high level of customization.

Quality first

Total quality concept is our basic strategy, influencing every single choice and providing a solid base for our actual and future growth.

Our commitment towards continuous improvements of our quality management is fully certified.

PROVEN SOLUTIONS FOR WORLD WIDE APPLICATIONS

- 1. MOSE OFFSHORE PROJECT VENICE, ITALY
- 2. ENI SLURRY TECHNOLOGY PROJECT ITALY
- 3. BORUGE I/II/III PETROCHEMICAL PROJECT UAE
- 4. TOBOLSK PP PLANT WEST SIBERIA
- 5. SOUTH YOLOTEN PROJECT TURKMENISTAN
- 6. LOUNYANG POLYPROPYLENE PROJECT CHINA
- 7. MUNCH MUNSTER PROJECT GERMANY
- 8. POLYPROPYLENE OMSK RUSSIAN FEDERATION
- 9. DAMIETTA PROJECT METHANOL PLANT EGYPT
- 10. RABIGH DEVELOPMENT PROJECT UAE
- 11. NKNK LLDPE PLANT 230KTY RUSSIAN FED.
- 12. ORYX GTL PROJECT RAS LAFFAN QATAR
- 13. QAFCO V PROJECT QATAR
- 14. SAFCO V PROJECT SAUDI ARABIA
- 15. PRELUDE FNLJ PROJECT AUSTRALIA
- 16. YAMAL LNG PROJECT RUSSIA
- 17. AUSTRALIA PACIFIC LNG PROJECT
- 18. CLEAN FUEL PROJECT KUWAIT
- 19. PUNTA CATALINA POWER PLANT PJ COLUMBIA
- 20. SOUTH HELWAN PROJECT EGYPT

Our products, a full range in SS316L & Copper Free Aluminum Alloy:

Valves

- air/gas filter
- pressure regulator
- filter regulator
- volume boosters
- lock-up valves
- balanced spool valves
- Back pressure regulators
- 2&3 ways switching valves
- Flow regulators
- Quick exhaust valves

Instruments & Accessories

- Vacuum pumps
- Flow meters
- Overload protectors
- Pressure gauges
- Silencers
- Tamper-proof kit

Engineered systems

- Panels
- Control boards
- Cabinets

















TURNKEY SOLUTIONS

ON/OFF ACTUATOR CONTROL SYSTEMS

Modular normalized systems or custom engineered systems





DIAPHRAGM VALVE CONTROL SYSTEMS

Simply built on actuator to suit your specifical needs





INSTRUMENTATION SYSTEMS

Custom designed turn key instrumentation systems





GAS MONITORING SYSTEMS

Most reliable and flexible aspirating gas monitoring systems





SITECNA'S FULL RANGE



PRESSURE

GAUGES

MBSS; MBS6

DN 40 / 50 / 60mm

SS304 (MBSS) 316

(MBS6) Case/

SS316 movement

& connection

-52°.....+90°

ATEX, EAC, NACE

IP65

Material trceability

EN10204:3.1

PRESSURE

GAUGES

MBSN

DN 40 / 50 / 60mm

SS304 Case/

Nickel plated

brass movement

& connection

-25°C.....+60°C

ATEX, EAC, NACE

IP65

AIR-GAS PREPARATION INSTRUMENTS & ACCESSORIES

	AIR-GAS FILTERS	PRESSURE REGULATORS	FILTER REGULATORS	BACK PRESSURE REGULATORS	PNEUMATIC RELAYS	AIR-GAS LOCK-UP VALVES
	U					
SERIES	F04-F06-F08- F12-F16-F24-F32	R04-R06-R08- R12-R16	FR04-FR06-FR08- FR12-FR16	BP04	SV; S3	LK04
SIZES	1/4"2"NPT	1/4"1"NPT	1/4"1"NPT	1/4''NPT	1/4"NPT	1/4"NPT
MATERIALS	SS316L Aluminum alloy	SS316L Aluminum alloy	SS316L Aluminum alloy	SS316L	SS316L	SS316L Aluminum alloy
DESIGN TEMPERATURES	-55°C+90°C	-55°C+90°C	-55°C+90°C	-55°C+90°C	-55°C+90°C	-55°C+90°C
MAX INLET PRESSURE	30BAR x SS316L 25BAR x Aluminum alloy	30BAR x SS316L 25BAR x Aluminum alloy	30BAR x SS316L 25BAR x Aluminum alloy	35BAR	8BAR	10BAR
APPROVALS	ATEX, EAC, NACE	ATEX, EAC, NACE	ATEX, EAC, NACE	ATEX, EAC, NACE	ATEX, EAC, NACE	ATEX, EAC, NACE
AVAILABLE 3° PARTY CERTIFICATES	EN10204:3.1 Flow Tests	EN10204:3.1 Flow Tests	EN10204:3.1 Flow Tests	EN10204:3.1	EN10204:3.1	EN10204:3.1
NOTES	FULL MATERIAL TRACEABILITY - MADE IN ITALY					

	DL VA	

	AIR-GAS VOLUME BOOSTERS	BALANCED SPOOL VALVES	FLOW REGULATORS	QUICK EXHAUST VALVES	INTRUMENTATION MANIFOLDS
		:1			•
SERIES	VB04-VB08 VB12-VB16	DP	RFU; RFB	VSR	MA
SIZES	1/4"1"NPT	1/4"3/4"NPT	1/8"3/4"NPT	1/8"-1"NPT	1/4"-1/2"NPT
MATERIALS	SS316L Aluminum alloy	SS316L Aluminum alloy	SS316L Aluminum alloy	SS316L	SS316L
DESIGN TEMPERATURES	-55°C+90°C	-10°C+90°C	-55°C+90°C	-50°C+90°C	Max +400°C
OPERATING PRESSURE	10BAR	2.5-3BAR	12BAR	2-12BAR	0-6000PSI
APPROVALS	ATEX, EAC, NACE	ATEX, EAC, NACE	ATEX, EAC, NACE	ATEX, EAC, NACE	
AVAILABLE 3° PARTY CERTIFICATES	EN10204:3.1	EN10204:3.1	EN10204:3.1	EN10204:3.1	EN10204:3.1
NOTES	FULL MATERIAL TRACEABILITY - MADE IN ITALY				

MINIATURIZED

SERIES

SIZES

MATERIALS

DESIGN

AVAILABLE 3° PARTY

NOTES

CERTIFICATES

TEMPERATURES

APPROVALS

	AIR-GAS FILTERS	PRESSURE REGULATORS	TEE FILTERS	
SERIES	FM	RM	TF	
SIZES	1/4"	1/8"1/4"NPT	1/4"	
MATERIALS	SS316L & polycarbonate	SS316L & POM	SS316L &	
DESIGN TEMPERATURES	0-50°C	0-50°C	-55°C+90°C	
MAX INLET PRESSURE	12BAR	16BAR	70BAR	
APPROVALS			ATEX, EAC, NACE	
AVAILABLE 3° PARTY CERTIFICATES	EN10204:3.1	EN10204:3.1	EN10204:3.1	
NOTES		Liquid or gas service		

VARIABLE AREA

FLOWMETERES

FLGSS

1/8"NPT

SS316L

-20°....+100°

ATEX, EAC, NACE

EN10204:3.1

SILENCERS

SLVP; SLHF; SLSC

1/8".....1"NPT

SS316L &

Copper free

aluminum

-55°.....+150°

ATEX, EAC, NACE

EN10204:3.1

OVERLOAD

PROTECTORS

SCLP

1/2"NPT

SS316L

-10°C.....+90°C

ATEX, EAC, NACE

EN10204:3.1

FULL MATERIAL TRACEABILITY - MADE IN ITALY

VARIABLE FLOW

VACUUM PUMPS

STVP

1/4"NPT

SS316L

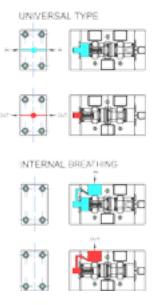
Aluminum alloy

-55°C.....+90°C

ATEX, EAC, NACE

EN10204:3.1

NEW IR SPOOL VALVES for dusty environments



low Control Technologies

Condor Technology

POSITIONERS







With a broad product package and an experience of over thirty years, PMV offers positioners for almost every application.

Digital Positioners:

D3 - Digital positioner with communication D20/D22 - Compact digital positioner

Electro Pneumatic Positioners:

EP5 - Modular & flexible electropneumatic positioners

PT700 - I/P converter for filed mounting EP3 - Modular linear electropneumatic pos.

Penumatic Positioners:

P5 - Modular & flexible pneumatic positioner P3 - Modular linear positioner

P1700 - Stainless steel pneumatic positioner

Atex EEx d, Atex EEx ia, Iecex EX, IECEx IS, CSA EX, CSA IS, GOST TR CU, FM Ex, Nepsi EX, SIL 2

SWITCH BOXES







PMV offers a wide range of switchboxes, easy to mount, provided with a large selection of switching and dome indicator/flar cover.

XCL/XML Explosion proof switchboxes

Approved ATEX II 2 G EEx d IIB T5 2 x cable entry

PS/PM Engineered Resin Sitchboxes

Accurate, reliable in harsh, corrosive environments. EEx ia approved version.

WS/WM Compact low profile switchboxes

Accurate, compact enclosure in aluminum or corrosion resistant engineered resin.

DS/DM Compact Ultraswitch switchboxes

Highest ATEX IIC rating available. For hazardous locations. Enclosure in aluminum alloy or Stainless Steel

Atex EEx d, Atex EEx ia, Iecex EX, IECEx IS, CSA EX, CSA IS, GOST TR CU, Nepsi EX, SIL 2, FM Ex, FM IS

HEATERS





Condor Heaters can be used in all applications, but are mainly designed for winterizing applications with instrument and analyser cabinets or keeping electric panels condens free. All product are 100% electrically tested.

There are no moving part in any of the heaters, this ensures maintenance-free, long-life products, using smaller amounts of energy.

Explosion Proof Heaters

Condor Heaters can be used in potentially explosive atmospheres as they are available in Explosion-proof version Ex-certified. The majority of the heaters are indeed available in anodized aluminum or with stainless steel 316 bodies, fit for corrosive environments.

ATEX II 2G Ex d IIC T3 or T4 : II 2D Ex tD A21 IP66 T 135°C or T200, IECEx DEK 11.0017, TR-CU EX, KTL EEx d

THERMOSTATS



- Accurate Setpoints up to 135°C
- Small hysteresis
- Anodized aluminium housing (Stainless steel housing available)

Therm96 GTH for non-hazardous areas

- Prevention of overheating
- Freeze protection
- Anticondensation

Explosion Proof Thermostat Ex-certified

- Prevention of overheating
- Temperature protection
- Suitable for T6 and T4 classification
- Armoured electrical cable standard
- In line version available (only in aluminum, set point up to 60°)

ATEX II 2G Ex d IIC T6 or T4 : II 2D Ex tD A21 IP66 T 85°C or T 135°C, IECEx DEK 11.0017, TR-CU EX, KTL EEx d

PNEUMATIC & SOLENOID **VALVES**







ALKON SS316 - 3-ways & 4-ways solenoid spool valves

- Solenoid assembly reliable it's quaranteed
- A variety of standard AC or DC voltage options
- Explosion proof NEMA appoved operators
- · Minimal breakout friction.
- Operates effectively in lubricated or not systems
- PTFE loaded Viton seals (millions of troublefree cycles)
- single or double pilot

HLR 900-5 - SS316 Solenoid operated flow control valve

- Two position
- Three Way Normally Closed
- Spring Return
- · Solenoid Operated
- Solenoid Internal Pilot Supply assisted

INDUSTRIAL PNFUMATIC COMPONENTS







🛦 ALKON

Directional Control Air Valves

Alkon valves are some of the fastest cycling and most reliable in the industry, with hundreds options and 100% product testing

• CV up to 51, from 1/8" to 2 1/2"NPT

Fittinas

Push-in fittings provide 60% more flow than conventional fittings with internal tube supports and save upto 75% in assembly time.

Flow Controls

Alkon's angle and in-line flow control products, including needle valves, are known for highflow, ultra-reliable performance.

Industrial Tubing

Polyethylene, polyurethane and nylon tubing and everything you need to work with it, (cutters, racks, emergency repair kits).

INSTRUMENTATION **VALVES**





Waverley brownall and Uni-lok range of valves are designed and manufactured to the highest standards to meet the requirements of the severe applications.

The range of valves - available in stainless steel, brass or special alloys - includes:

- Ball Valves
- Stainless Needle Valves
- Check Valves
- Relief Valves
- Strainers
- Manifold Valves
- Double Block and Bleed Valves
- Gate Valves
- Pressure reducing valves

INSTRUMENTATION FITTINGS





Tube Fittings

- OD Compression fittings (Ringlok Twin Ferrule, Duoloc Single Ferrule, Uni-lok twin Ferrule)
- Gas Release Flaps
- Flange Fittings (Flange connectors, kidney flanges)

Stainless Steel Pipe Fittings

- Hose components and unions
- Plugs, bushes and seals
- High pressure precision pipe fittings
- Weld fittings
- Low pressure fittings

PTFE Fittings

UHP Fittings

OUR PARTNERS



PRESSURE SENSORS



When it comes to safety system controls, HLR Controls Inc. leads the way in providing the most reliable, innovative, high quality products. HLR 7970 pressure sensors are unique, self-contained controls that are capable of responding to a range of set pressure points.

HLR 7970 HIGH/LOW PRESSURE SENSOR

A pressure balance spool control valve used to respond to a predetermined pressure setting.

HLR 7970 HIGH/LOW SET

The HLR 7970 Hi/Lo Set is a manifold assembly with two Pressure Sensors. Together the Pressure Sensors monitor a particular operating pressure range.

HLR 7970-20M PRESSURE SENSOR

A pressure balance spool control valve used to respond to predetermined pressure settings.

MANUAL & AUTOMATIC RELAYS





HLR manual reset relays are designed to quickly exhaust control pressure when the pilot supply pressure decreases significantly. Each reset relay comes with many customizable options including, but not limited to, red/green indicators and/or latch pin assemblies.

HLR 150-18 & 150-14AM are designed specifically to allow for easier than normal manual shut-in (pushing inward) when a Pilot Supply pressure of 100 PSI or greater is applied. HLR range includes:

HLR 7810-3 MANUAL RESET RELAY (PUSH-TO-RESET)

HLR 150-14 & 150-18 MANUAL RESET RELAY (PULL-TO-RESET)

HLR 8620B AUTOMATIC RESET RELAY
HLR 150-14AM AUTOMATIC/ MANUAL RELAY

HYDRAULIC CONTROL





The line of HLR hydraulic valves and controllers are used to operate Surface Controlled Sub-Surface Safety Valves (SCSSV) to control hydraulic flow.

HLR 7950A HYDRAULIC INTERFACE VALVE

2 position, 3 way Normally Closed, pilot supply pressure operated, spring return, 10.000 PSI Mod. 7955A: manual operate (By-Pass) Handle

HLR 7965A HYDRAULIC INTERFACE VALVE

2 way, Normally open, designed to bleed hydraulic supply to a hydraulic reservoir upon loss of pilot pressure. Mod. 60A: spring return

HLR 300-50 HIGH-FLOW CONTROLLER

Two position, three way, normally closed, pilot supply pressure operated, spring return.

Mod. 300-55: manual by-pass

HLR 850-10 HYDRAULIC QUICK EXHAUST

ESD





HLR 7830 EMERGENCY SHUTDOWN STATION (SINGLE LINE) & 7835 (DUAL LINE)

The HLR 7830 is a two position, two way Normally Closed quick exhaust valve that is manually operated. A knob is positioned inward to mantain control circuit pressurization: pulling outward on the knob will establish an opento-flow internal flow path to depressurize the ESD circuit.

HLR 7830-DPEXPS ELECTRIC EMERGENCY SHOUTDOWN STATION

- Explosion proof (factory hermetically sealed)
- Underwriters' Laboratories Approved
- Canadian Standards Association Certfied (For Division 1 & 2: Class 1 Groups A. B. C. D)
- Class II Groups E, F, & G
- Hazardous locations (Nema 7 & 9).

SAND PROBES



Our line of HLR sand probe relays, switches and elements are specifically designed to monitor erosion in process pipes, signaling an alarm or closing the well until an inspection can be completed.

HLR 7550A SAND PROBE RELAY

Two position, three way, Normally Open flow control valve assembly that is manually reset.

HLR 7930 PNEUMATIC SAND PROBE RELAY

Two position, three way Normally Open, pressure operated, panel mounted, manual reset flow control valve.

HLR 350-10 ELECTRIC SAND PROBE SWITCH

It's a SPDT single pole double throw switch that will provide an electrical output to a receiving circuit or device upon erosion of a Sand Probe Flement.

ACCESSORIES





HI R 950-1 & 950-5 VENT CAPS

The HLR Vent Caps are pressure relieving devices designed to prevent accumulation of pressure within a hydraulic reservoir. The Vent Cap will allow gas to escape a reservoir before pressure accumulation can occur.

HLR 7790B VELOCITY CHECK VALVES

The HLR 7790B is a two position, two way Normally Closed, Manual reset, Flow control, safety valve. It is used to pressurize a pressure monitoring device's control circuit. Velocity Check Valves respond to downstream pressure differential by instantly sealing off the valve's inlet.

PRESSURE RELIEF VALVES
OREFICE NIPPLES
TEST NIPPLES

INSTRUMENTATION SOLUTIONS





Imperial Valve offers, through specialist know-ledge, a huge range of:

DOUBLE BLOCK AND BLEED VALVES (DBB)

A combination of three valves with piping and instrument valves in

MANIFOLDS

2, 3 and 5-valve manifolds, suitable for all standard pressure transmitters.

INSTRUMENT PROTECTION ENCLOSURES

Produced from glass reinforced polyester (GRP)

and available in a range of sizes and models, with or without a viewing window, and heated or unheated.

Imperial also offers

Instrument needle valves, ball & check valves; Turn Key Solutions Medium & High Pressure

SEALANTS & RESINS





Chester activity includes production and sale of anaerobic-contact adhesives and sealants, a range of high performanced metallic, elastomeric polymers and coating materials or other goods for almost all industrial applications. Chester offer industrial cleaning and lubricating agents as well. All the products have been developed in Chester laboratories.

The range includes:

- Machine foundation leakers
- Elastomeric & metallic polymers
- Lubricating and penetration agents
- · Cvanoacrylate adhesive
- Industrial cleaning and degrease liquids
- Anaerobic sealants
- Material for airless application method
- Protective coatings

IN THE SPOTLIGHT

SITECNA'S VOLUME BOOSTERS



- Copper free aluminum alloy or SS316L construction
- Sizes from 1/4"NPT till 1"NPT
- Threaded exhaust port available
- Suitable for automation equipment to onshore, offshore, pharmaceutical, medical and food applications
- Excellent stability and repeatibility
- · Accurate adjustment and high flow capacity
- Integral by-pass valve
- Full material traceability
- ATEX 94/9/CE 🔂 II2GD c IICT6 X / 🎹 & 🗽 approved / SIL

PMV D3 - ADVANCED DIGITAL POSITIONER



- Digital, Auto calibration, LCD display.
- Single & double acting, rotary or linear actuators.
- General purpose, IS & EEx d.
- Flexible mounting.
- Plug in switches & feedback modules.
- HART, Profibus PA & Foundation Fieldbus option.
- Fail freeze, remote mounted version for the most demanding applications.
- Certifications/approvals: EX ia ATEX, EX CSA, EX FM, EX IECEx, TR CU. EX d ATEX. INMETRO IS. INMETRO EX. Nepsi Cert. SIL 2

HLR 7970-20M PRESSURE SENSOR



The HLR 7970-20M Pressure Sensor is a pressure balance spool control valve used to respond to predetermined pressure settings. In the Pressure Safety Low (PSL) mode, the valve functions as a three [3] way, normally closed, block and bleed control. When used in the Pressure Safety High (PSH) mode, it functions as a three [3] way, normally open block and bleed control.

NB: HLR 7970-20M is a unique self- contained control capable of responding to set pressure points from 2,000 to 20,000 PSI.

ALKON'S DIRECTIONAL CONTROL AIR VALVE - BIG BAZOOKA



- Extremely compact design with maximum flow TILL CV 45
- Spool seal design provides negligible breakout friction and fast response
- Full ported and rated. Basic minimum orifice: 2.06 inches
- Versatile can be piped for 6 different applications
- Closed crossover design prevents cross-bleeding and allows complete versatility in piping
- Pilot valve design allows complete design & application freedom
- Solenoid models: Solenoid pilot assembly
- External pilot can be supplied for low pressure and vacuum applications

WAVERLEY- RINGLOK, DUOLOC AND EXOTIC ALLOYS FITTINGS



Waverley brownall supplies the highest quality exotic alloy fittings. Materials included are: Stainless Steel, Monel, Titanium, Incoloy and 6MO.

WB offers one of the widest ranges of twin ferrule SS 0.D. compression fittings. The Ringlok twin ferrule fittings were developed to satisfy the stringent needs as Duoloc single ferrule OD compression fittings are designed to be robust, yet quick and easy to assemble

A FULL RANGE OF PRODUCTS FOR EVERY APPLICATION

FOR ACTUATOR CONTROL

- Positioners & Switchboxes
- Filter Regulators, Filters, Regulators
- Manual/ Pneumatic / Solenoid Valves
- Volume Boosters
- Flow Regulators
- Lock.up Valves
- Back Pressure Regulators
- Switching Valves
- Spool Valves
- Quick Exhaust Valves
- Silencers
- Gauges
- Fittings & Tubing
- Instrumentation



FOR GAS MONITORING SYSTEMS



- Air-gas Coalescing Filters
- Filter Regulators
- Pressure RegulatorsVacuum Pumps
- Flowmeters
- Instrumentation Valves
- Solenoid Valves
- Heaters & Thermostats
- Heat Exchangers
- Fittings
- Tubina

FOR INSTRUMENTATION SYSTEMS

- Pressure Regulators
- Filter Regulators
- Instrumentation Valves
- Overload devices
- Instrumentation
- E/P Converters
- Manifolds
- Heaters & Thermostats
- Fittings & Tubing
- GRP Enclosures
- Tube Clamps

