

TAILORED SOLUTIONS FOR CRITICAL SERVICE APPLICATIONS



SITECNA®
Flow Control Technologies

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

Fluid control components & engineered systems
for the most demanding applications

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



Sitecna since 1983

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.

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

Valves

- air/gas filters
- pressure regulators
- filter regulators
- 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
- flowmeters
- overload protectors
- pressure gauges
- silencers
- tamper-proof kit

Engineered systems

- panels
- control boards
- cabinets

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. PUNTA CATALINA POWER PLANT PJ - COLUMBIA
8. MUNCH MUNSTER PROJECT - GERMANY
9. POLYPROPYLENE OMSK - RUSSIAN FEDERATION
10. DAMIETTA PROJECT METHANOL PLANT - EGYPT
11. RABIGH DEVELOPMENT PROJECT - UAE
12. NKNK LLDPE PLANT 230KTY - RUSSIAN FED.
13. ORYX GTL PROJECT - RAS LAFFAN QATAR
14. QAFCO V PROJECT - QATAR
15. SAFCO V PROJECT - SAUDI ARABIA
16. LIWA PLASTIC COMPLEX (LPIC) - OMAN
17. PRELUDE FNLJ PROJECT - AUSTRALIA
18. YAMAL LNG PROJECT - RUSSIA
19. AUSTRALIA PACIFIC LNG PROJECT
20. CLEAN FUEL PROJECT - KUWAIT
21. SOUTH HELWAN PROJECT - EGYPT
22. CORU - RUSSIAN FEDERATION
23. FDH AL-ZOUR PROJECT - KWAIT
24. WEST NILE PROJECT - EGYPT
25. ZHOR GAS PROJECT - EGYPT

OUR PRODUCTS






AIR-GAS PREPARATION

	AIR-GAS FILTERS	PRESSURE REGULATORS	FILTER REGULATORS	BACK PRESSURE REGULATORS	PNEUMATIC RELAYS	AIR-GAS LOCK-UP VALVES
						
SERIES	F04-F06-F08-F12-F16-F24-F32	R04-R06-R08-R12-R16	FR04-FR06-FR08-FR12-FR16	BP04	SV04; S304	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 rd PARTY CERTIFICATES	EN10204:3.1 Flow Tests, IP66	EN10204:3.1, SIL3 Flow Tests, IP66	EN10204:3.1, SIL3 Flow Tests, IP66	EN10204:3.1	EN10204:3.1, SIL3 (S3)	EN10204:3.1
NOTES	FULL MATERIAL TRACEABILITY - MADE IN ITALY					




INSTRUMENTS & ACCESSORIES

	HIGH FLOW SILENCERS	VARIABLE AREA FLOWMETERS	OVERLOAD PROTECTORS	VARIABLE FLOW VACUUM PUMPS	DUST EXCLUDERS	PRESSURE GAUGES
						
SERIES	SLVP; SLHF; SLSC	FLGSS	SCLP	STVP	PV, PVSL	MBSN, MBSS; MBS6
SIZES	1/8".....1"NPT	1/8"NPT	1/2"NPT	1/4"NPT	1/4".....1"NPT	DN 40 / 50 / 60mm
MATERIALS	SS316L & Copper free aluminum	SS316L	SS316L	SS316L Aluminum alloy	SS316L	Case: SS316 (MBS6) / SS304 (MBSN -SS) Movement & conn.: nickel plated brass (SN) / SS316(SS-S6)
DESIGN TEMPERATURES	-55°.....+150°	-20°.....+100°	-10°C.....+90°C	-55°C.....+90°C	-55°C.....+90°C	-55°.....+90°
APPROVALS	ATEX, EAC, NACE	ATEX, EAC, NACE	ATEX, EAC, NACE	ATEX, EAC, NACE	NACE	ATEX, EAC, NACE
AVAILABLE 3 rd PARTY CERTIFICATES	EN10204:3.1	EN10204:3.1	EN10204:3.1	EN10204:3.1	EN10204:3.1	IP65
NOTES	FULL MATERIAL TRACEABILITY - MADE IN ITALY					Material traceability EN10204:3.1

CONTROL VALVES

	AIR-GAS VOLUME BOOSTERS	BALANCED SPOOL VALVES	FLOW REGULATORS	QUICK EXHAUST VALVES	INSTRUMENTATION MANIFOLDS
					
SERIES	VB04-VB08 VB12-VB16	DP	RFU; RFB	VSR	MA
SIZES	1/4".....1"NPT	1/4".....3/4"NPT	1/8".....1"NPT	1/8"-1"NPT	1/4"-1/2"NPT
MATERIALS	SS316L Aluminum alloy	SS316L Aluminum alloy	SS316L Aluminum alloy	SS316L Aluminum alloy	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 rd PARTY CERTIFICATES	EN10204:3.1, SIL3, IP66	EN10204:3.1, SIL3	EN10204:3.1	EN10204:3.1, SIL3	EN10204:3.1
NOTES	FULL MATERIAL TRACEABILITY - MADE IN ITALY				

MINIATURIZED

	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 rd PARTY CERTIFICATES	EN10204:3.1	EN10204:3.1	EN10204:3.1
NOTES	Liquid or gas service		

NEW CUSTOMIZED VALVES

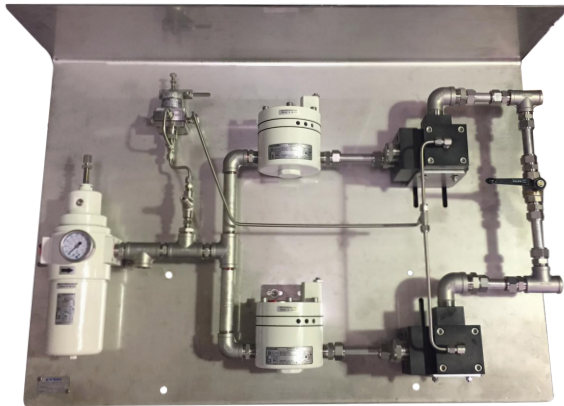


PROVEN INSTALLATIONS

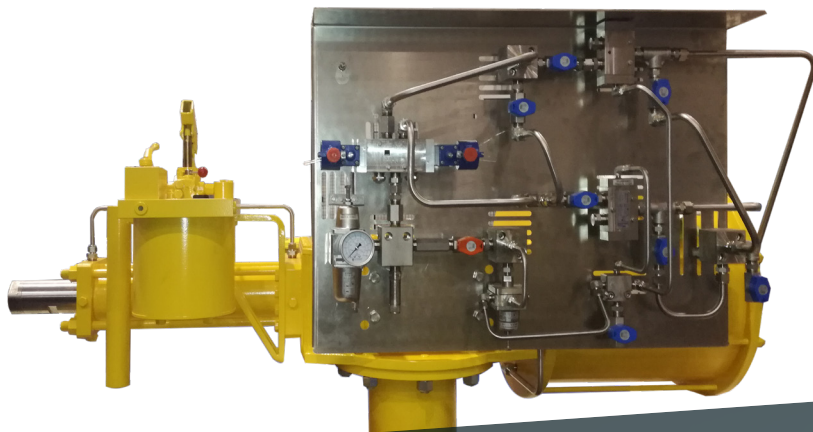
DIAPHRAGM VALVE CONTROL SYSTEMS



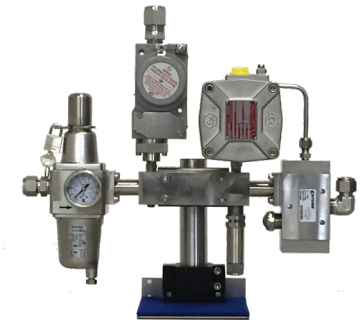
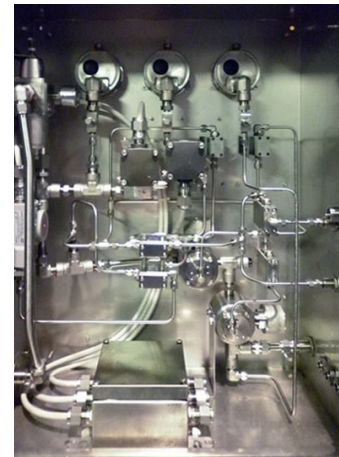
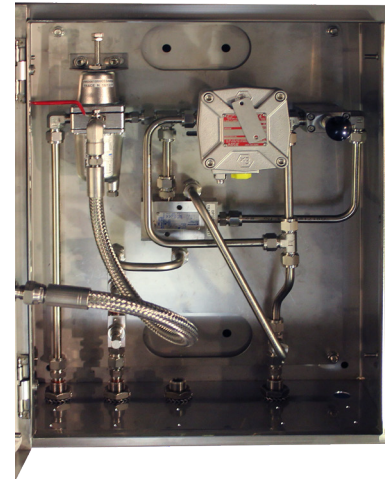
PNEUMATIC ACTUATOR CONTROL SYSTEMS FOR CONTROL VALVE



PNEUMATIC ACTUATOR CONTROL SYSTEMS WITH MECHANICAL PST



PNEUMATIC ACTUATOR CONTROL SYSTEMS



Modular normalized systems or custom engineered systems

Simply built on actuator to suit your specific needs

OUR PARTNERS

PRESSURE SENSORS **SIGMA HLR** Established 1968



When it comes to safety system controls, Sigma HLR 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.

HYDRAULIC CONTROL & QEV **SIGMA HLR** Established 1968



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.

SIGMA QUICK EXHAUST VALVES

QEV are available for pneumatic and hydraulic applications in a wide range of port sizes and port types, working pressure (till 10000 PSI), flow range and temperature compatibility.

MANUAL & AUTOMATIC RELAYS **SIGMA HLR** Established 1968



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 ACCUMULATOR **SIGMA HLR** Established 1968



The 21HA10 Accumulator is a Nitrogen Charge System – Opposed Piston, pressurized hydraulic fluid storage, control assembly. It is specifically designed to store and release pressurized hydraulic fluid within a receiving control circuit.

Hydraulic Fluid is compressible, therefore volume reduction cannot provide stored energy. Nitrogen Gas is compressible and can store large amounts of energy. In our accumulator, compressed Nitrogen Gas is used to transfer its energy through movement of the opposed Piston. The Accumulator stores Hydraulic fluid until it is needed.

Hydraulic accumulator

6 Cubic Inch. 416 SS, 6000PSI

1/4" NPT Female NPT Connection

Model 21HA10, Arctic Service model 21HA21

HYDRAULIC PRESSURE REGULATORS **SIGMA HLR** Established 1968



Sigma hydraulic regulators are self-relieving, two position, pressure reducing (spring/sensing piston modulating combination), flow control valves.

Are used to reduce source or instrument supply pressure to a specific lower operating pressure. The reduced operating pressure provided from the regulator outlet connection, will be maintained within a predetermined operating pressure range or limit, required by the receiving control circuit or a control device.

Stainless Steel construction, relieving / non relieving, gas or hydraulic service, arctic service.

28RG2 - max out: 30-150 PSI / max in: 6000 PSI

28RG16 - max out: 30-150PSI/max in: 10000PSI

28RG20 - max out: 3500-6000PSI / max in: 10000PSI

HIGH PRESSURE CHECK VALVES **SIGMA HLR** Established 1968



Two position, spring biased poppet operated flow control device that permits inlet to outlet flow only and prevents reverse pressure flow (from outlet to inlet).

Designer for pneumatic & hydraulic service, are available in various port sizes, pressure and operating temperatures. All stainless steel construction means long life and dependability. Check Valves of this type are of critical importance in high pressure, hydraulic fluid operated control circuits. Are also frequently used in closed loop control circuits, process or production lines, down stream of pumps and also in compressed air and gas applications.

14KS - 6000 PSI

14KS30 - 10000 PSI

14KS42 - 2000 PSI, H2S SVC

INDUSTRIAL PNEUMATIC COMPONENTS **ALKON**



Directional Control Air Valves

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

- CV up to 51, from 1/8" to 2 1/2" NPT

Fittings

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

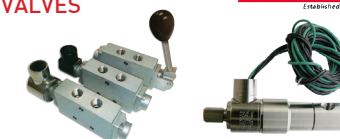
Flow Controls

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

Industrial Tubing

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

PNEUMATIC & SOLENOID VALVES **ALKON** **SIGMA HLR** Established 1968



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

- A variety of standard AC or DC voltage options
- Operates effectively in lubricated or not systems
- Solenoid assembly reliable it's guaranteed
- Explosion proof NEMA approved operators
- single or double pilot
- PTFE loaded Viton seals (millions of trouble-free cycles)

HLR 900-5 - SS316 Solenoid operated flow control valve

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

OUR PARTNERS

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 field mounting

EP3 - Modular linear electropneumatic pos.

Pneumatic 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

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

SWITCH BOXES



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

XCL/XML Explosion proof switchboxes

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

PS/PM Engineered Resin Switchboxes

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

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

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



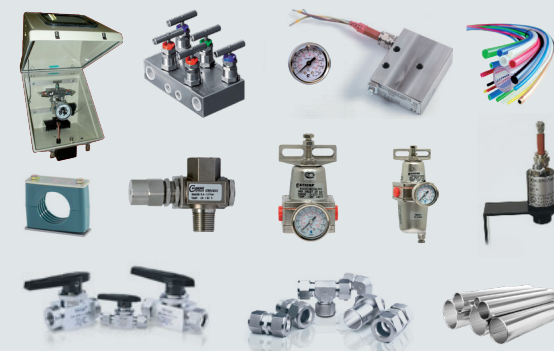
FOR GAS MONITORING SYSTEMS



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

FOR INSTRUMENTATION SYSTEMS

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



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