

SNRI & MALBRANQUE VALVES

GATE VALVES

- Parallel Seat
- Flex Wedge
- Double Block & Bleed

GLOBE VALVES

CRYOGENIC APPLICATIONS

CHECK VALVES

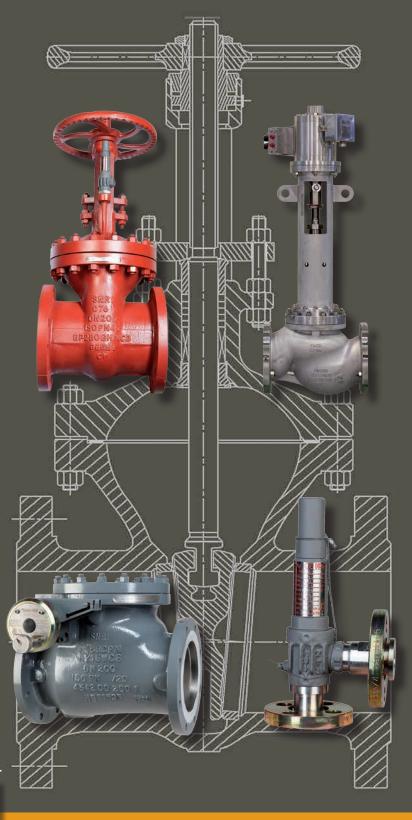
- Swing Check
- Piston type Lift Check valves
- Positive Safety Swing Check
- Non-Slam Tilting Check

OTHER ASSEMBLIES

- Safety Valves
- Pressure Reducing Valves
- Regulating Valves
- Jet Water Ejectors
- Water Heaters

VALCO GROUP





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Ruffec, France factory site 1h30 from Bordeaux



OUR COMPANY

Our History

Successors of companies founded respectively in 1829 and 1949, VALCO Group via its' brand names SNRI and Malbranque, have actively participated in the evolution of industrial growth and progress over the last 180 years. Starting with the development for Steam applications in the 19th century up to recent great LNG adventures and new nuclear valve applications, SNRI & Malbranque product ranges have been acclaimed by many users world-wide. Expertise acquired within SCHLUMBERGER Group in the 1980's permitted optimization of the Malbranque "Oil & Gas" valve product range to technical requirements for refining processes and harshest applications in upstream oil operations.

With a strong technical base, French fabrication along with European industrial partners, VALCO Group is proud to actively participate in widely innovating international projects and to be a world leader within different markets.

Our Business Markets

French fabricant SNRI designs and produces valves for Oil, Gas, Power, Marine, Petrochemical and diverse industrial processes under their **Malbranque and SNRI brand names**.

Our Design dept. elaborates and creates new products using latest computer-aided technologies that optimize and adapt the designing of Globe, Gate and Check valves according to customer needs.

A range of Security equipment (Safety valve, Relief valve et Fire-Clap for tank storage) makes SNRI a choice partner to assure your installations top conformity.

Our range includes all pressures up to very high level (class 2500), compatible with very low temperatures (-196°C) to very high (+650°C) that covers all needs for the following applications:

Oil & Gas applications

Malbranque brand, recognized and approved by the most important refining companies and engineering centers are designed and fabricated for the harshest environmental conditions in exploration operations, refining and petrochemical. These products are particularly adapted for gas treatment and corrosive fluids. On-site maintenance, repair and renewal can be executed by our "Valco-Valves-Services" teams to guarantee all of the products' initial performance levels no matter whatever the date of their being put into service.

Cryogenic applications

SNRI is a world-leader since 50 years for on-board methane carriers. It's range covers up to High Pressure valves for floating terminals and Off-shore LNG units. Our expertise has enabled SNRI to be partners to the naval industry for the development of valves for propulsion systems using LNG.

Malbranque, due to industrial expertise of cryogenic applications type Cold box, is an acknowledged partner of Air Liquid units and industrial gas treatment designers and engineers, also for LNG terminals.

Steam, Nuclear & Industry applications

Mastery of material structure and their optimal concept confirms SNRI to stand out as a prevailing fabricant specialist of Steam applications, for all types of industry.

SNRI is an active partner in Nuclear industry early on at the end of the 1960's. The whole range offers a line of casted and forged valves relevant to different quality levels and standards as well as specific product such as Free Flow Reverse Current valve for turbine protection.

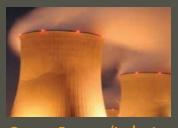
Our products are also present on many conventional type Boilers or cogenerations, as well as many various steam networks. SNRI also develops products according to severe industry standards such as for the industrial processes of juices and pulp.



Oil & Gas/Petrochemical



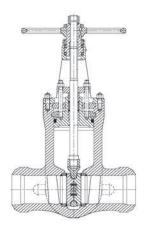
Marine/LNG



Power Energy/Industry



PARALLEL SLIDE GATE VALVES





					Вос	dy Mat	eria	I
ND	NP	Class	Type of Connection	Steel	Alloy Steel	Stainless Steel	Duplex	Super Duplex
15 - 400	16	-	Welded ends / Flange	X	X	х	Х	Х
15 - 900	20	150 #	Welded ends / Flange	X	X	х	Х	Х
15 - 900	25 - 40	-	Welded ends / Flange	X	X	Х	Х	Х
15 - 900	50	300 #	Welded ends / Flange	X	X	Х	Х	Х
15 - 900	100	600 #	Welded ends / Flange	X	Х	Х	Х	Х
		Bolted o	r pressure seal b	onn	et			
50 - 900	150	900 #	Welded ends / Flange	X	X	Х	Х	Х
50 - 900	250	1500 #	Welded ends / Flange	X	Х	х	Х	Х
50 - 900	420	2500 #	Welded ends / Flange	Х	Х	Х	Х	X

Body & Bonnet	A 216 WCB	A 217 WC6	A 217 WC9	A 351 CF8M / CF3M / CF8 / CF3					
Seat		Stellite /	AISI 316 / AISI	410					
Disc		Stellite / AISI 316 / AISI 410							
Stem	AISI 420	AISI 420 AISI 316 / Gr 660							
Stud Bolt	A 193 Gr B7	A 193	Gr B16	A 193 Gr B8M CL 2					
Screw	A 194 Gr 2H	A 194	4 Gr 4	A 194 Gr 8M					
Gasket	150#: Gra	150#: Graphite 300#: Spiral wound stainless steel /graphite 600#: RTJ							
Packing		Graphite							









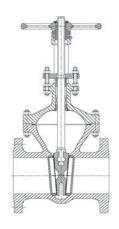






FLEXIBLE WEDGE GATE VALVES

				Вос	ly Mai	teria		
ND	NP	Class	S Connection		Alloy Steel	Stainless Steel	Duplex	Super Duplex
15 - 400	10	-	- Welded ends / Cast Iron			Cast Iro		
15 - 400	16	-	Welded ends / Flange	Х	Х	Х	X	Х
15 - 900	20	150 #	Welded ends / Flange	Х	Х	Х	X	Х
15 - 900	50	300 #	Welded ends / Flange	Х	Х	х	X	Х
15 - 900	100	600 #	Welded ends / Flange	X	Х	Х	X	Х
		Bolted o	r pressure seal b	onn	et			
50 - 900	150	900 #	Welded ends / Flange	Х	X	Х	X	Х
50 - 900	250	1500 #	Welded ends / Flange	Х	Х	Х	X	X
50 - 900	420	2500 #	Welded ends / Flange	Х	Х	Х	X	Х





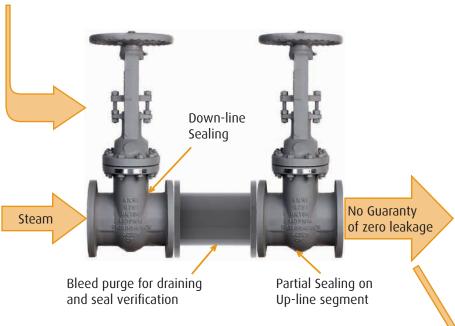
Body & Bonnet	A 216 WCB	A 217 WC6	A 217 WC9	A 351 CF8M CF3M / CF8 /CF3	Cast Iron (NP 10)			
Seat		0	AISI 316L					
Disc		AISI 316L						
Stem	AISI 420		AISI 316L					
Stud Bolt	A 193 Gr B7	A 193	Gr B16	A 193 Gr B8M CL 2	AISI 316L			
Screw	A 194 Gr 2H	A 194	1 Gr 4	A 194 Gr 8M	AISI 316L			
Gasket	150#: Graph	600#: RTJ						
Packing	Graphite							



DOUBLE BLOCK & BLEED VALVES

			Body Material					
ND	NP	Type of Connection	Steel	Alloy Steel	Stainless Steel	Duplex	Super Duplex	
15 - 300	40	Welded ends / Flange	Х	Х	Х	X	X	

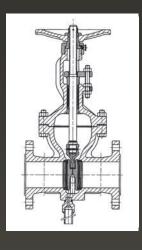
OTHER SUPPLIERS TYPICAL PIPING ARRANGEMENT



Body & Bonnet	A 216 WCB
Seat	Stellite / AISI 410
Disc	Stellite / AISI 410
Stem	AISI 420
Stud Bolt	A 193 Gr B7
Screw	A 194 Gr 2H
Gasket	PN 40: Graphite
Packing	Graphite



OUR SOLUTION







GLOBE VALVES

FORGED



Option: Locking Chain Device

CASTED



Possible Option: Bellow Seal

			Body Material					
ND	NP	Type of Connection	Steel	Alloy Steel	Stainless Steel	Duplex	Super Duplex	
08 - 50	100 - 160	Welded ends / Flange	Х	Х	Х	Х	Х	
08 - 50	250	Welded ends / Flange	Х	X	Х	Х	Х	

					Вос	dy Mai	teria	
ND	NP Class		Class Type of Connection		Alloy Steel	Stainless Steel	Duplex	Super Duplex
15 - 400	16	-	Welded ends / Flange	Х	Х	Х	X	х
15 - 900	20	150 #	Welded ends / Flange	Х	Х	Х	Х	х
15 - 900	25 - 40	-	Welded ends / Flange	Х	Х	Х	Х	х
15 - 900	50	300 #	Welded ends / Flange	Х	Х	Х	Х	Х
15 - 900	100	600 #	Welded ends / Flange	Х	X	Х	Х	Х
		Bolted o	r pressure seal b	onn	et			
50 - 900	150	900 #	Welded ends / Flange	Х	Х	Х	Χ	х
50 - 900	250	1500 #	Welded ends / Flange	Х	X	Х	Х	Х
50 - 350	420	2500 #	Welded ends / Flange	Х	Х	Х	Х	Х

Body & Bonnet	A 216 WCB	A 217 WC6	A 217 WC9	A 351 CF8M / CF3M / CF8 / CF3				
Seat		Stellite /	AISI 316 / AISI	410				
Disc		Stellite / AISI 316 / AISI 410						
Stem	AISI 420	AISI 420 AISI 316 / Gr 660						
Stud Bolt	A 193 Gr B7	A 193	Gr B16	A 193 Gr B8M CL 2				
Screw	A 194 Gr 2H	A 194	4 Gr 4	A 194 Gr 8M				
Gasket	150#: Grap	150#: Graphite 300#: Spiral wound stainless steel /graphite 600#: RTJ						
Packing	Graphite							

The valves can be of 2 different designs:





CHECK VALVES

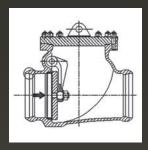


					Body Material					
	ND	ND NP C		Type of Connection	Steel	Alloy Steel	Stainless Steel	Duplex	Super Duplex	
	40 - 400	16	-	Welded ends / Flange	X	Х	Х	Х	Х	
	40 - 900	20	150 #	Welded ends / Flange	X	X	Х	Х	Х	
	40 - 900	25 - 40	-	Welded ends / Flange	X	X	Х	Х	Х	
	40 - 900	50	300 #	Welded ends / Flange	X	X	Х	X	Х	
	40 - 900	100	600 #	Welded ends / Flange	X	X	х	Х	Х	
			Bolted or	pressure seal b	onn	et				
	50 - 600	150	900 #	Welded ends / Flange	Х	Х	х	Х	Х	
	50 - 600	250	1500 #	Welded ends / Flange	Х	Х	х	Х	Х	
	50 - 600	420	2500 #	Welded ends / Flange	Х	Х	х	Х	Х	



Options: Lever + Counter-weight, Dash Pots, Rotating Dampers.

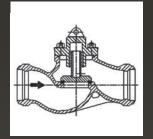
Body & Bonnet	A 216 WCB	A 217 WC6	A 217 WC9		Cast Iron (NP 16)				
Seat		AISI 316L							
Disc		Stellite / AISI 316 / AISI 410							
Axe Hinge	AISI 420		AISI 316		AISI 316L				
Stud Bolt	A 193 Gr B7	A 193	A 193 Gr B8M CL 2	A 193 Gr B7					
Nut	A 194 Gr 2H	A 194	A 194 Gr 2H						
Gasket	150#: Graphite 300#: Spiral wound stainless steel /graphite 600#: RTJ								











PISTON TYPE LIFT CHECK VALVES

					Вос	ly Mat	teria	I
ND	NP	Class	Type of Connection	Steel	Alloy Steel	Stainless Steel	Duplex	Super Duplex
15 - 400	16	-	Welded ends / Flange	X	Х	х	Х	Х
15 - 900	20	150 #	Welded ends / Flange	Х	X	Х	Х	Х
15 - 900	25 - 40	-	Welded ends / Flange	Х	X	Х	Х	Х
15 - 900	50	300 #	Welded ends / Flange	Х	X	Х	Х	Х
15 - 900	100	600 #	Welded ends / Flange	X	X	Х	Х	Х
		Bolted o	pressure Seal B	onn	et			
50- 600	150	900 #	Welded ends / Flange	Х	X	Х	Х	Х
50 - 600	250	1500 #	Welded ends / Flange	Х	X	х	Х	Х
50 - 350	420	2500 #	Welded ends / Flange	Х	Х	X	Х	Х







Body & Bonnet	A 216 WCB	A 217 WC6	A 217 WC9	A 351 CF8M / CF3M / CF8 / CF3				
Seat		Stellite / AISI 316 / AISI 410						
Disc		Stellite / AISI	316 / AISI 410					
Piston	AISI 420		AISI 316					
Stud Bolt	A 193 Gr B7	A 193	Gr B16	A 193 Gr B8M CL 2				
Nut	A 194 Gr 2H	A 194	1 Gr 4	A 194 Gr 8M				
Gasket	150#: Graph	nite 300#: Spiral v 600#	vound stainless ste f: RTJ	el /graphite				

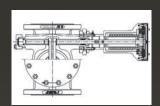


POSITIVE SAFETY SWING CHECK VALVES



FIRECLAP® (Tank Outlet)

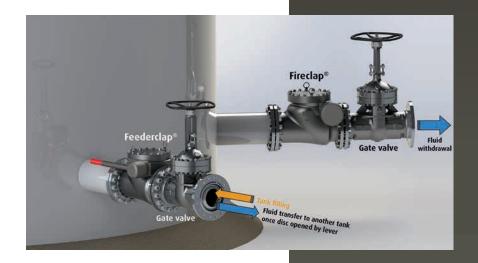
		Type of	Body M	Material		
ND	NP	Connection	Steel	Stainless Steel		
50 - 600	16	Welded ends or Flanged	Х	Х		
50 - 600	20	Welded ends or Flanged	Х	Х		



Security equipment normally open, with automatic quick closing device in case of FIRE.

Destined for Tank Storage of Hydrocarbons and other flammable liquids, via the tank outlet.

Its function is to contain the fluid inside the tank to NOT feed further a Fire.





FEEDERCLAP® (Tank Inlet)

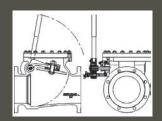
	ND ND Type of		Body M	Naterial
ND	NP	Connection	Steel	Stainless Steel
50 - 500	16	Welded ends or Flanged	X	Х
50 - 500	20	Welded ends or Flanged	X	Х



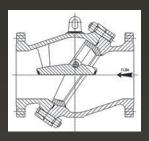
Security equipment for the Tank Inlet, it can be locked in the open position, manually operated by a lever.

When mounted on piping used for tank filling, its function is the same as for the FireClap, to NOT feed the Fire.

Option: Limit Switches, Remote Controls and ATEX 2014 / 34 / UE







NON-SLAM (Tilting Disc) CHECK VALVES

					Вос	ly Mat	teria	I
ND	NP	Class	Type of Connection	Steel	Alloy Steel	Stainless Steel	Duplex	Super Duplex
50 - 750	20 - 420	150 # 2500 #	Welded ends or Flanged	Х	Х	Х	Х	Х

The closing is done by a Disc which turns around a tilted axis. There is only one unique Seat.

In normal use, the valve is open because of the fluid's flow action.

The disc remains parallel in the fluid's canal pump flow.

The opening's pressure level is sensitive to even the smallest pressure differences.





2 part body - Flanged.

Body & Bonnet	A 216 WCB	A 217 WC6	A 217 WC9	A 351 CF8M / CF3M / CF8 / CF3					
Seat		Stellite / AISI 316 / AISI 410							
Disc		Stellite / AIS	SI 316 / AISI 410						
Axe Hinge	AISI 420		AISI 316						
Stud Bolt	A 193 Gr B7	A 193	Gr B16	A 193 Gr B8M CL 2					
Nut	A 194 Gr 2H	A 194	1 Gr 4	A 194 Gr 8M					
Gasket		Graphi	ite or PTFE						



SAFETY VALVES

						В	ody N	lateria	al
TYPE	ND	NP	Pressure range	Temp. Range C°	Connection	Steel	Stainless steel	Bronze	Brass
Safety valve ERBLO	08 - 15	16	0.25 to 14 bar	-10°C to 100°C	Threaded		Special		Х
Safety valve BRADLEY	15 - 65	25	0.3 to 25 bar	-10°C to 150°C	Flanged or threaded			Х	
Safety valve BRADLEY MAJOR	15 - 65	50	0.3 to 50 bar	-196°C to 550°C	Flanged or threaded	Х	Х		
Safety valve MACH 1 & 2	25 - 200	16 - 100	0.3 to 100 bar	-196°C to 550°C	Flanged	Х	Х		

ТҮРЕ	Fluids according to Pressure Equipment Directive (DESP) 2014 / 68 / EU
Safety valve ERBLO	Gas G2
Safety valve BRADLEY	Liquid G1 & G2, Steam and Gas G1 & G2
Safety valve BRADLEY MAJOR	Cryogenic, liquid G1 & G2, Steam and Gas G1 & G2
Safety valve MACH 1 & 2	Cryogenic, liquid G1 & G2, Steam and Gas G1 & G2
INDEX	G1: Dangerous / G2: Non dangerous / Steam: overheated or saturated water



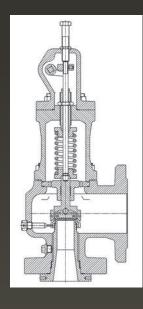


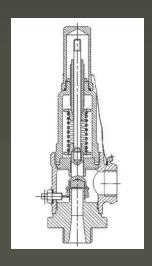




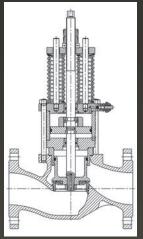




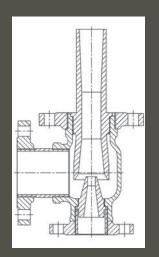














PRESSURE REDUCING / REGULATING VALVES

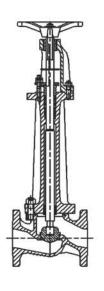
				8	Body Material				
TYPE	ND	NP	Pressure range	Temperature Range C°	Connection	Steel	Stainless Steel	Bronze	Brass
Outlet pressure regulator valve BLACKWELL	20 - 200	40	40 bar inlet 0.8 to 15 bar outlet	-10°C to 80°C	Flanged or threaded ends	Х	Special	Х	х
Outlet pressure regulator valve GAZOFIX	20 - 50	16	10 bar inlet 0.05 to 0.8 bar outlet	-10°C to 80°C	Flanged or threaded ends			х	
Outlet pressure reducing valve SERGOWATT	10 - 25	16	15 bar inlet 0.05 to 10 bar outlet	-10°C to 80°C	Threaded ends			х	
Inlet pressure regulator valve BLACKFLO	20 - 200	16	0.8 to 15 bar inlet	-10°C to 80°C	Flanged	X	Special	х	х

JET WATER EJECTORS / WATER HEATERS

				Pressure	Temperature		Body Material	
TYPE	Functions			range	Connection	Stainless Steel	Bronze	
Water elevator, steam vapour FLUXOVAP	Direct liquid pumping	15 - 50	16	2 to 10	-10°C to 260°C	Flanged or threaded ends	Х	х
Liquid elevator, water jet FLUXO	Direct liquid pumping	15 - 50	16	1 to 8	-10°C to 260°C	Flanged or threaded ends	Х	х
Ejector via water jet FLUXERO	Direct suction of air, gas, steam or indirect liquid suctioning	15 - 50	16	1.5 to 10	-10°C to 260°C	Flanged or threaded ends	х	Х
Steam heater THERMOFLUX	Exterior type via recirculation	15 - 50	16	1.5 to 10	-10°C to 260°C	Flanged or threaded ends	х	х
Steam water heater THERMOVAP	Submerged type; water Heater and all other types of liquid	15 - 50	16	10 maxi	-10°C to 184°C	Threaded ends	х	х



CRYOGENIC APPLICATIONS – Marine LNG



ND	ND NP Class Type of		ND Class		Type of	Body Material	
NU	INP	Class	Connection	Stainless Steel			
15 - 400	16	-	Welded ends / Flange	Х			
15 - 900	20	150 #	Welded ends / Flange	X			
15 - 900	25 - 40	-	Welded ends / Flange	Х			
15 - 900	50	300 #	Welded ends / Flange	Х			
15 - 900	100 - 150 250 - 420		Welded ends / Flange	X			





Gate Valve
Globe Valve
Swing Check Valve
Piston type Lift Check Valve
Safety Valve





Body & Bonnet	A 351 CF3M	A 351 CF8M / CF3M / CF8 / CF3					
Seat	Stellite / AISI 316 / 316L						
Disc	Stellite /	AISI 316L					
Stem	AISI 316L / Gr 660						
Stud Bolt	A 320 Gr	B8M CL 2					
Nut	A 194	Gr 8M					
Gasket	Graphite						
Packing	Graphite / PTFE						





SNRI range of Cryogenic & Ambient High Pressure valves,

meets the high quality standards of LNG Fuel Gas Supply System requirements.

Working closely with Shipyards, Skid integrators & Class societies, products were improved in order to offer best efficiency & integration

in the FGSS.



Products: Globe, Check valves & Actuators Forged range from ½" to 1 ¼"

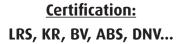
Specific Types:

Full Bore design → low pressure drop with better CV Value
Pressure Seal Bonnet from 900lbs → weight & cost saving
Compact 316L Hydraulic actuators → Weight, Size & Maintenance savings
Available in Y Pattern upon request → optimized pressure drop.



Working Conditions:

From -196°C up to 500° C From Class 600 Lbs up to 4500 Lbs





SNRI & MALBRANQUE have huge historical track records supplying HP valves to different industries.

Special attention is made to ensure full compliance with international standards, class society rules, customer's specifications and also process compliance.



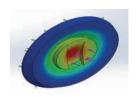
DESIGN & ENGINEERING / R&D

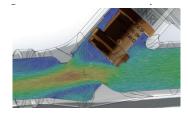
- ✓ Experienced staff in valve industry
- ✓ Involved in National valves workshops (CETIM, Profluid, ...)
- ✓ Strong collaboration between design office and workshop provides expertise, precise feedback and service.
- ✓ Many products hare Fire Safe Design, "sealing" is done by contact metal to metal to ensure long-life capacity in severe conditions.

Tools:

- 2D and 3D software: SolidWorks, Autocad
- Fluid Dynamics Calculation: FloWorks
- Mechanical Finite Element Analysis
- Calculation notes to international standards (NF EN 12516, ASME VIII, RCC-M...)
- API standard, ASME standard (B16.34)

Ex: Strength resistance simulation to define suitable material / Flow simulation to optimize CV for Y Globe Valve





TESTING CAPACITIES IN-HOUSE

Test benches at ambient temperature:

Water / Air / Helium / Nitrogen tests

HP Cryo and ambient testing

Cryogenic & Helium leak-tests

Bunker

NDE INSTRUMENTATION

Dye Penetrant

Ultrasonic testing

Magnetic Particle Examination

Positive Material Identification

Tightness, thickness, hardness measures







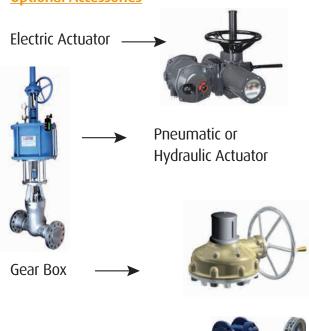


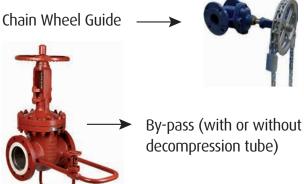




ACCESSORIES

Optional Accessories







CERTIFICATIONS

Quality Certification:

- Certificate according to Directive 2014/68/UE
- Certificate ISO 9001

Production Certification:

- Fugitive Emissions Valve 4" 2500#
- Fugitive Emissions Valve 8" 600#
- Fire Safe design : API 6FA, ISO 10497

Cryogenic Certification:

- Certification ABS, BV, DNV, KR, LR and NKK









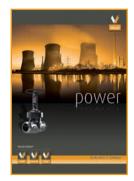




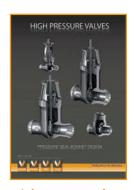




OTHER BROCHURES AVAILABLE



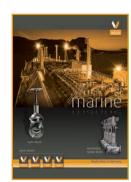
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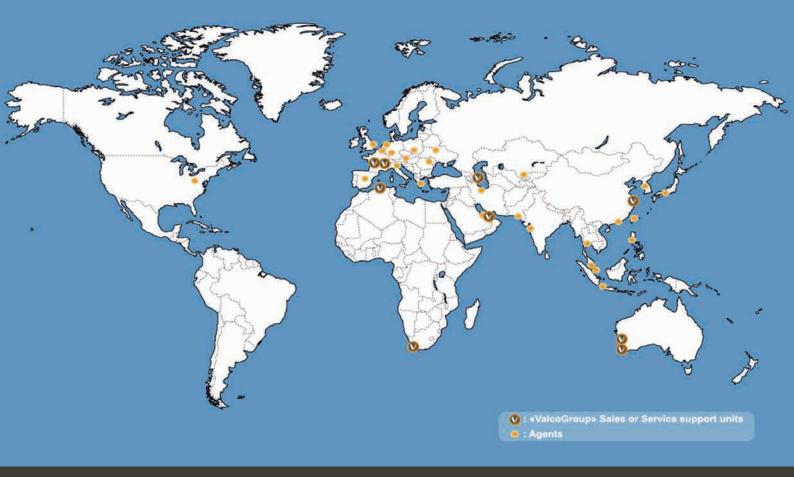
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