Smart Valves®

Under License of "Smart Valves", Switzerland.

Products Overview

All kinds of Control Valves

Self-Actuating Pressure Regulators

Pneumatic Actuators, Desuperheaters

Welcome to the Art of Control Valves Technology

International West Technology Transfer Co. (IWTT), *established in 2001 as a pioneer in Iran to deliver Control Valves technology with high quality standards is proud to announce it's partnership with Smart Control Valves, Switzerland.*

This exciting partnership will enable **IWTT Co.** *to leverage 100% European expertise and skills and strengthen its Iran base manufacturing facilities with best in class quality and capabilities. A five years license arrangement with Smart Control Valves will allow a sustainable technology transfer to Iran to secure manufacturing and assembly of European technology in Iran.*

Our Commitment to fulfill our customers demands efficiently and effectively with a wide range of offering will be delivered through our continued focus on bridging the best and latest technologies through our international collaborations.

Launch of European Smart Control Valves in Iran

Seen in the middle of the photo with glasses, Mr. Asghar Manavi, the owner of IWTT looks on with guests.

The International West Technology Transfer Co. (IWTT) successfully signed a co-operation with the Swiss Overseas Consulting & International Coordinator (OCIC) to leverage many years of technical capabilities and experience in the design and manufacture of control valves, desuperheaters, MOV, regulators, and strainers for the Iranian industrial market.
Mr. Asghar Manavi, the owner of IWTT told Valve World: "These valves are the best in their class of quality smart control valves currently available on the market. They are 100% European made, and are produced in a range of nominal sizes from ½ to 16 inch (DN15 to DN400) for pressure rating CL150 to CL2500 (PN10 to PN420). Their design, manufacture, testing, and selection of materials are all carried out according to ANSI, ASME, API, ASTM, EN, FCI, IEC, ISA and other international standards. The products, moreover, are based on many years of experience working in the fields of the chemical, petrochemical, oil & gas, and power generation industries – in short anywhere where there is a real need for strong and reliable control valves."
The opening ceremony of the manufacturing and assembly line site for the smart control valves in took place in the IWTT facilities in the industrial city of Shams-Abad, Iran on October 22nd, and was attended by over 300 high-ranking representatives of the Iranian Ministry of Oil, the Ministry of Energy, NIGC, NIOC, KALA NAFT, NISOC, NPC, IOOC.
The production facility in Iran will work closely with the Sharif University of Technology based in Tehran, Iran on its research program.

It is the intention that in the first year 500 valves will be assembled and tested in Shams-Abad from parts supplied in Europe. After this, certain non-critical parts of the valves will be completely produced in Iran between years 2- 4, leading to complete technology transfer after 5 years. The guidance of this process will be completely in the hands of the European concern during this transfer period so that quality is guaranteed at all times.

For any further information, you can visit www.iwttco.com or contact by info@iwttco.com

At the opening ceremony in the IWTT facility in Shams-Abad, participants are eager to learn about the smart control valve assembly process.

An onlooker examines a partly assembled valve.

National Iranian Oil Company's formal recognition Of **Iwtt**'s Manufacturing plant– **"Smart Valves" products**

ENGLISH

RSS

شرکت ملی نفت ایران
NATIONAL IRANIAN OIL CO.

دوشنبه 1 آبان 1396 14:15:10

صفحه اصلی | معرفی شرکت | انتصابات | خدمات به کارکنان | فیلم و عکس | مقالات تخصصی | ارتباط با ما

۱۳۹۶/۸/۱ ۱۰:۴۵
با همکاری بخش خصوصی،

خط مونتاژ و تولید کنترل ولو و سیستم های محافظ ابزار دقیق راه اندازی می شود

با همکاری بخش خصوصی، خط مونتاژ و تولید کنترل ولوهای Smart Valves و سیستم های محافظ ابزار دقیق در ایران راه اندازی می شود.

به گزارش خبرنگار پایگاه اطلاع رسانی شرکت ملی نفت ایران، با رایزنی شرکت بین المللی انتقال فن غرب با شرکت Overseas سوئیس و شرکت Intertec Hess GmbH از کشور آلمان، موفق به امضا تفاهمنامه همکاری در جهت انتقال دانش فنی، طراحی و ساخت در دو حوزه کنترل ولو و سیستم های محافظ ابزار دقیق مورد نیاز در صنایع نفت، گاز، پتروشیمی، نیروگاه و سایر صنایع زیربنایی کشور شده است.

اصغر معنوی؛ رئیس هیئت مدیره شرکت بین المللی فن غرب، روز گذشته (۳۰ مهرماه) در برنامه بازدید از خط مونتاژ و تولید کنترل ولوها و سیستم های محافظ ابزار دقیق که با حضور مدیران و کارشناسان مدیریت پشتیبانی ساخت و تامین کالا برگزار شد، گفت: این شرکت از آغاز به کار خود در سال ۱۳۸۱ تاکنون با دارا بودن نمایندگی از برندهای معتبر اروپایی موفق به کسب رضایت مشتریان خود در زمینه تامین انواع تجهیزات مورد نیاز در صنعت نفت، گاز، پتروشیمی، نیروگاه ها و سایر صنایع زیربنایی کشور شده است.

معنوی افزود: این شرکت تلاش کرده تا به منظور تامین نیازهای ضروری و استراتژیک مورد نیاز صنعت نفت و به ویژه پروژه های خانواده ۱۰ گروه کالایی، با انتقال فناوری در دو حوزه کنترل ولو و سیستم های محافظ ابزار دقیق از کشورهای سوئیس و آلمان به ساخت داخل کردن این محصولات به صورت انبوه اقدام کند.

به گفته وی، کنترل ولو یا شیر کنترل که به تنظیم میزان جریان سیال در یک سیستم کنترل فرایندی کمک می کند، ابزار دقیق بسیار پیچیده ای است که به زودی با بومی سازی این تکنولوژی در کشور، گامی در راستای خودکفایی و عمل به سیاست های اقتصادی مقاومتی برداشته خواهد شد.

معنوی ادامه داد: کنترل ولوها در سایزها و مدل های مختلف نامگذاری شده و هر کدام مشخصات فنی خاص خود را دارند که بر اساس نیازهای متقاضی، ولوها انتخاب و ارائه خواهد شد.

محمود اسماعیلی؛ معاون مدیرعامل امور مهندسی و حمایت از ساخت داخل مدیریت پشتیبانی ساخت و تامین کالا در حاشیه این بازدید در گفت و گو با خبرنگار NIOC، با بیان اینکه شیرهای کنترلی جزء چهارمین گروه از ۱۰ گروه کالایی مورد نیاز صنعت نفت است، گفت: ماهیت این کالا سرمایه ای است به این معنی که معمولا شرکت های پیمانکار طرف قرارداد با نفت ملزم به تهیه و نصب آن هستند.

اسماعیلی افزود: در مورد کالاهای سرمایه ای، شرکت ملی نفت ایران به عنوان کارفرما تلاش می کند تا با تجمیع تقاضا، امکان سنجی پروژه و توجیه اقتصادی بودن آن به پیمانکاران کمک کند که در این راستا اخیرا نیز اقدام هایی با همکاری معاون مدیرعامل شرکت ملی نفت ایران در امور مهندسی و توسعه انجام شده است.

به گفته وی، در مورد کنترل ولوها نیز بعد از تجمیع تقاضا، مناقصه انجام و با انجام ارزیابی های اولیه از توانایی ها و خدمات شرکت های خصوصی با تضمین خرید در قالب قرارداد، استفاده خواهد شد.

کنترل ولو وسیله ای است که با اعمال نیرویی غیر از نیروی دست عمل و میزان جریان سیال را در یک سیستم کنترل فرایندی تنظیم می کند در واقع کنترل ولوها که بر اساس مشخصه های مختلف مانند نوع جنس بدنه، نوع سیال، نوع حرکت و ...طبقه بندی می شوند، عنصر نهایی در لوپ کنترل است و نقش مهم و اساسی در یک صنعت فرایندی ایفا می کند.

شماره خبر:۱/۳۴۱۲۴

Our Control Valve Assembly and Production Facility

IWTT Company's Valve Testing Facility

Angle Valve- Single-ported Globe Control Valve type S1A

Three way Control Valve Type S3

Rotary Plug Valve Type S33


NIOC PHOTO
Mojtaba Mohseni


NIOC PHOTO
Mojtaba Mohseni

Single-ported Globe Control Valve

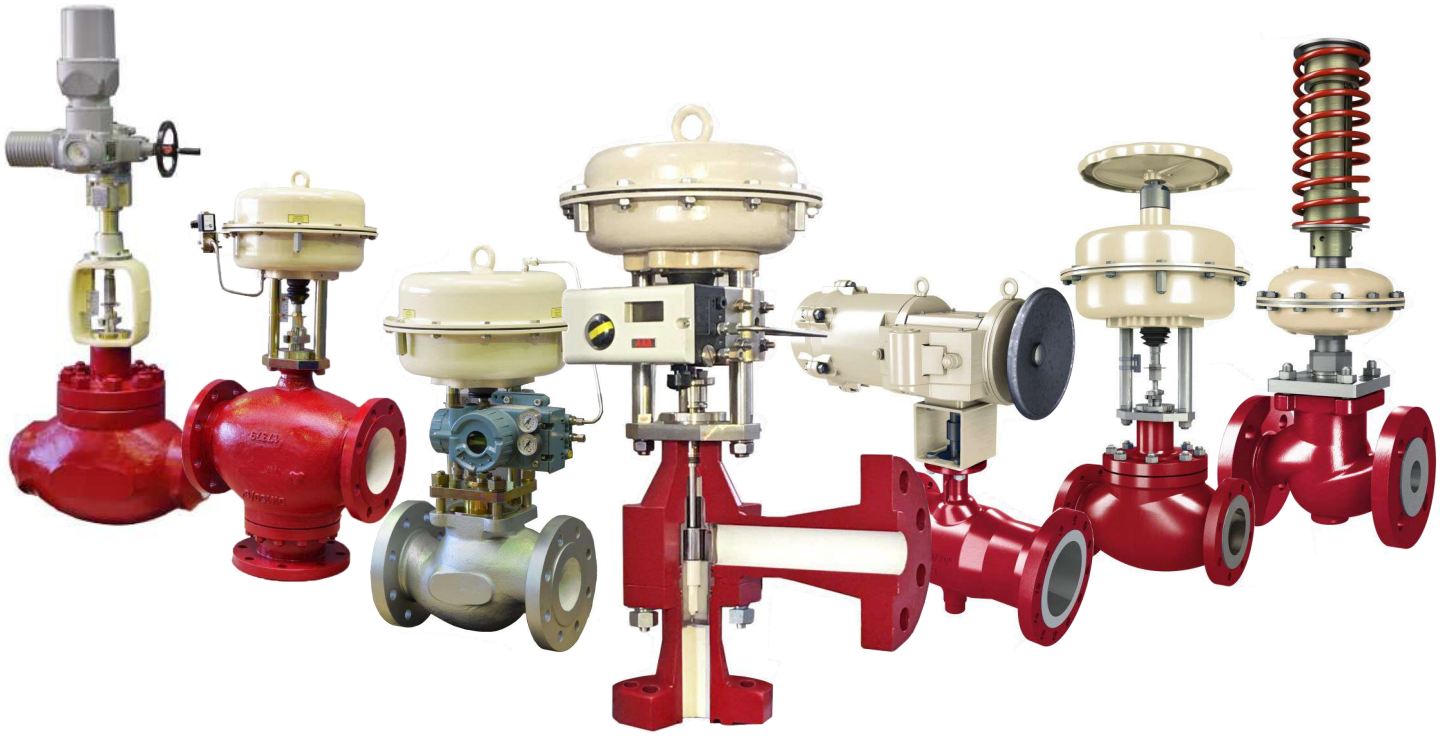
Type S1B

Type S1A

ST-1 Type Piston Desuperheater

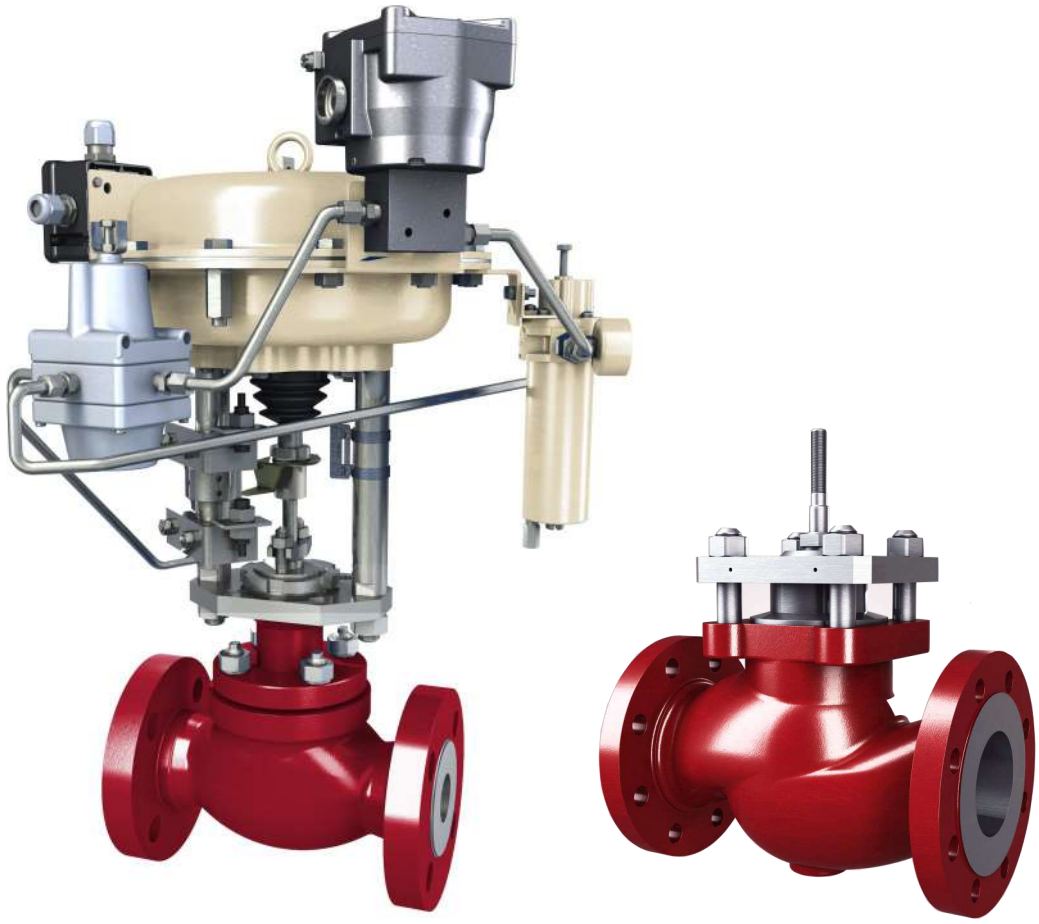
Single-ported Globe Control Valve type S

Smart's Art of Control Valves



"Smart Valves" Product Portfolio

Single-ported Globe Control Valves Type S



Single-Ported Globe Control Valves Type S are used in automatic and remote control systems to control flow of gases and liquids. Wide range of material and design versions make the valves widely sought-after in Oil, Gas and Chemical industry, heat and power generation industry, paper industry, food industry, metallurgy and coal mining.

Technical Table	
Nominal sizes	DN15; 20; 25; 32; 40; 50; 65; 80; 100; 125; 150; 200; 250 (NPS 1/2" up to 10")
Nominal pressure	PN10; 16; 25; 40 ; As per PN-EN1092-1 & PN-EN1092-2 CL150; CL300 ; As per ANSI/ASME B16.5, B16.34 & MSS-SP44
Flow ratio	0,01 ... 800 m^3/h
Control characteristics	Linear, equal percentage, quick-opening, modified
Rangeability	50:1, non-catalogue - 100:1
Leakage class	IV class PN-EN 60534-4 VI class PN-EN 60534-4 Class from B to G PN-EN 12266-1
Media temperature	- 196 ... + 450°C
Body Materials & Bonnet	Cast iron EN-GJL 250 Spheroidal iron EN-GJS 400-18LT Carbon steel GP 240 GH (1.0619), ASTM A216 Gr.WCB Carbon steel for low temp. G20Mn5 (1.6220), ASTM A352 Gr.LCB Stainless steel GX5CrNiMo 19-11-2 (1.4408) , ASTM A351 Gr.CF8M

Single ported Globe Control Valves Type S1A and S1B

Single-Ported Globe Control Valves Type S1A, S1B are used in automatic and remote control installations as flow control elements to adjust flow of liquids, steam and gases. Wide range of material and design versions makes the valves applicable in most demanding working conditions in power generation, petroleum chemistery, heating, chemical industry, metallurgy, etc.

Technical Table	
Nominal sizes	DN15; 20; 25; 40; 50; 80; 100; 150; 200; 250; 300; 400 (NPS 1/2" up to 16")
Nominal Pressure	PN10; 16; 25; 40; 63; 100; 160; 250; 320; 400 ; possible up to: PN630 PN-H-74306:1985; PN-H-74307:1985 ; As per PN-EN1092-1 & PN-EN1092-2 CL150; CL300; CL600; CL900; CL1500; CL2500 ; As per ANSI/ASME B16.5, B16.34 & MSS-SP44
Flow ratio	0,1 ... 960 m^3/h; 10 ... 800 m^3/h
Control characteristics	Linear, Equal percentage, Quick-opening, Modified
Rangeability	50:1, 100:1
Leakage class	IV class PN-EN 60534-4V V class PN-EN 60534-4 VI class PN-EN 60534-4 Class from B to G PN-EN 12266-1
Media temperature	- 196 ... + 650°C
Body materials & Bonnet	Carbon steel GP 240 GH (1.0619) , ASTM A216 Gr.WCB Alloy steel G17CrMo9-10 (1.7379) , ASTM A216 Gr.WC9 Carbon steel for low temp. G20Mn5 (1.6220), ASTM A352 Gr.LCB Stainless steel GX5CrNiMo 19-11-2 (1.4408) , ASTM A351 Gr.CF8M

Three-way Control Valves Type S3

Three-Way Control Valves Type S3 are used in automatic systems and remote control systems as flow control elements to adjust flow of liquids and gases. Type S3M is designed to mix two streams of medium, where as type S3R is designed to split one stream into two. Recommended for application in city-heating and HVAC systems and many branches of industry. They can be delivered with P/R and PN/RN actuators (basic option) or with P1/R1; P1B/R1B actuators (upon request) electric actuators (E), handwheels type 20 or with no drives.

Technical Table	
Nominal sizes	DN15; 20; 25; 32; 40; 50; 65; 80; 100; 150; 200; 250 (NPS 1/2" up to 10")
Nominal pressure	PN10; 16; 25; 40 ; As per PN-EN1092-1 & PN-EN1092-2 CL150; CL300 ; As per ANSI/ASME B16.5, B16.34 & MSS-SP44
Flow ratio	0,63 ... 320 m^3/h
Control characteristics	linear
Rangeability	50:1
Leakage class	IV class PN-EN 60534-4 VI class PN-EN 60534-4 class from B to G PN-EN 12266-1
Media temperature	- 196 ... + 450°C
Body Materials & Bonnet	Cast iron EN-GJL 250 Spheroidal iron EN-GJS 400-18LT Carbon steel GP 240 GH (1.0619) , ASTM A216 Gr.WCB carbon steel for low temp. G20Mn5 (1.6220), ASTM A352 Gr.LCB Stainless steel GX5CrNiMo 19-11-2 (1.4408) , ASTM A351 Gr.CF8M

Rotary Plug Control Valves Type S33

Rotary Plug Control Valves S33 represent the design of valves, where change in flow ratio is achieved through eccentrically set rotary plug. Such structures are particularly useful for control of flow under heavy-duty conditions, with high probability of cavitation and erosion. High rangeability (200:1) and wide range of material and design variants make them ideal for application in many branches of industry, such as power generation, metallurgy, chemical and petroleum industry, food industry, paper industry, etc.

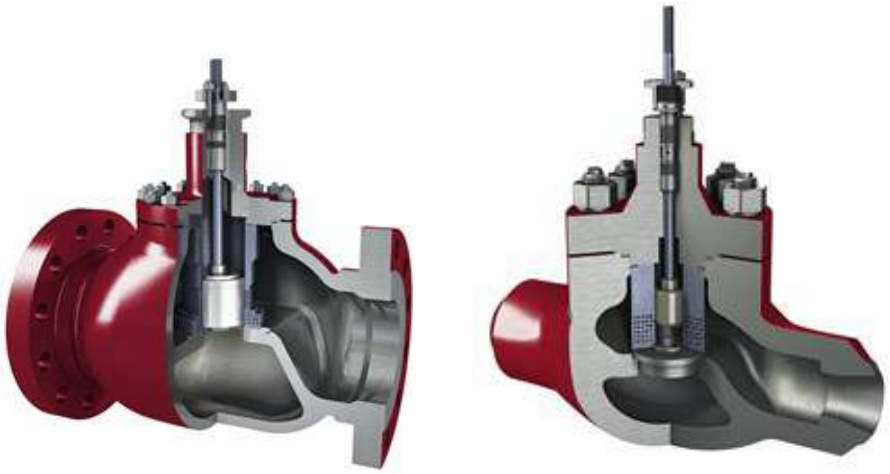
Technical Table	
Nominal sizes	DN25; 40; 50; 80; 100; 150; 200; 250; 300 (NPS 1/2" up to 12")
Nominal pressure	PN 10, 16, 25, 40, 63 ; As per PN-EN1092-1 & PN-EN1092-2 CL150; CL300 ; As per ANSI/ASME B16.5, B16.34 & MSS-SP44
Flow ratio	3 ... 2160 m^3/h
Control characteristics	linear, equal percentage
Rangeability	200:1
Leakage class	IV class PN-EN 60534-4 VI class PN-EN 60534-4 class from B to G PN-EN 12266-1
Media temperature	- 40 ... + 450°C
Body Materials & Bonnet	carbon steel GP 240 GH (1.0619), ASTM A216 Gr.WCB carbon steel for low temp. G20Mn5 (1.6220), ASTM A352 Gr.LCB stainless steel GX5CrNiMo 19-11-2 (1.4408), ASTM A351 Gr.CF8M

Double-Ported Control Globe Valves Type S10

The Valves Type S10 with pressure balanced plug are used as final flow control valves (units) for automatic and remote control systems. They can be applied to adjust flow of fluids in various industries, such as chemical plants, steelworks, shipyards, etc.

Technical Table	
Nominal sizes	DN20; 25;32; 40; 50; 65; 80; 100; 150; 200; 250; 300 (NPS 3/4" up to 12")
Nominal pressure	PN 16; 25; 40; 63;100; 160; As per PN-EN1092-1 & PN-EN1092-2 CL150; CL300; CL600 ; As per ANSI/ASME B16.5, B16.34 & MSS-SP44
Flow ratio	4...1930 m^3/h
Control characteristics	Linear, Equal percentage, Quick opening
Rangeability	200:1
Leakage class	IV class PN-EN 60534-4 VI class PN-EN 60534-4 class from B to G PN-EN 12266-1
Media temperature	-180...+650 °C
Body materials	Carbon steel GP 240 GH (1.0619), ASTM A216 Gr.WCB carbon steel for low temp. G20Mn5 (1.6220), ASTM A352 Gr.LCB Stainless steel GX5CrNiMo 19-11-2 (1.4408), ASTM A351 Gr.CF8M

Multi-path control valves type S1B-M

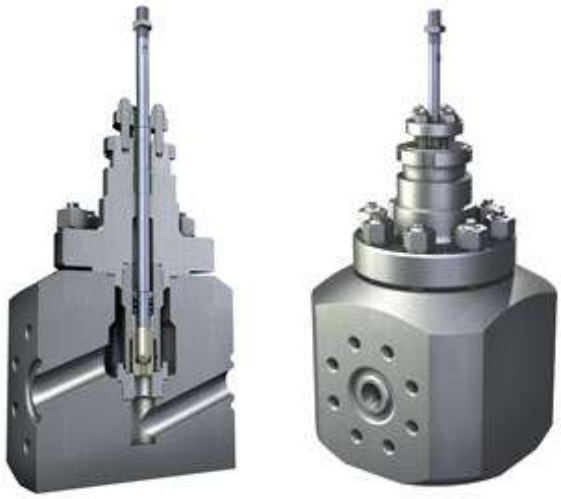


Technical Table	
Nominal size	DN 50…200 / NPS 2” …8”
Nominal pressure	PN 10…400 ; As per PN-EN1092-1 & PN-EN1092-2 CL150…2500 ; As per ANSI/ASME B16.5, B16.34 & MSS-SP44
Leakage class	IV, V as per EN 60534-4
Materials	Carbon steel and alloy steel

Single-ported choke valves (Angle Valve) type S1A-C1

Technical Table	
Nominal size	DN 25…100 / NPS 1” …4”
Nominal pressure	PN 10…630 ; As per PN-EN1092-1 & PN-EN1092-2 CL150...CL4500 ; As per ANSI/ASME B16.5, B16.34 & MSS-SP44
Leakage class	IV, V as per EN 60534-4
Materials	Carbon steel and stainless steel

Single-ported choke valves type S1A-C3



Technical Table	
Nominal size	DN 25…100 / NPS 1” …4”
Nominal pressure	PN 10…630 ; As per PN-EN1092-1 & PN-EN1092-2 CL150…CL4500 ; As per ANSI/ASME B16.5, B16.34 & MSS-SP44
Leakage class	IV, V,VI as per EN 60534-4
Materials	Carbon steel and stainless steel

Needle Valves SA

These Needle Valves are designed for installation, startup and maintenance of pressure / flow converters, pressure gauges and other fittings and supplementary equipment in industrial automatic systems.

Technical Table	
Materials	Body: carbon steel; stainless steel Gland: stainless steel; PTFE
Maximum working pressure	40 MPa
Maximum working temperature with regard to the type of sealing	EPDM (up to 150°C) ; PTFE; VITON (up to 200°C) ; Graphite (up to 500°C)
Pipe sizes	NPT 1/4"; 3/8"; 1/2" G 1/2" M20x1.5

Single-Ported Globe Control Valves Type SH

These valves are used as flow control valves for automatic and remote control systems, for stepless, infinite or ON/OFF flow control in water or steam heating systems as well as for ventilation and air conditioning circuits (HVAC).

Technical Table	
Nominal sizes	DN15; 20; 25; 32; 40; 50; 65; 80; 100 (NPS 1/2" up to 4")
Nominal pressure	PN10; 16; 25; 40 ; As per PN-EN1092-1 & PN-EN1092-2 CL150; CL300 ; As per ANSI/ASME B16.5, B16.34 & MSS-SP44
Flow ratio	0,010 ... 160 m^3/h
Control characteristics	linear, equal percentage, quick-opening
Rangeability	50:1
Leakage class	IV class acc PN-EN 60534-4 VI class acc PN-EN 60534-4
Media temperature	- 40 ... + 260°C
Body materials & Bonnet	Cast iron EN-GJL 250 Spheroidal iron EN-GJS 400-18LT Carbon steel GP 240 GH (1.0619) ; ASTM A216 Gr.WCB Stainless steel GX5CrNiMo 19-11-2 (1.4408) , ASTM A351 Gr.CF8M

Self-Actuating Pressure Reducing Regulators

SNR 1

SNR 2

Regulators are applied in heating systems, in industrial processes with cold and hot water, steam, air and non- flammable gases. Using with other media subject to consulting with manufacturer.

Technical Table	
SNR1	Used to control preset pressure in process installations connected to valve outlet.
SNR2	For regulation of pressure after the valve with an intensifier.
SNR3	Used to control preset pressure in process installations connected to valve inlet.
SNR5	For control of pressure differences on the installation connected with the regulator in series.
SNR6	For control of pressure differences with flow limitation on the installation connected with the regulator in series (installation on the return).
SNR7	For control of pressure differences on the installation connected with the regulation parallel.
SNR8	For flow regulation.

Reduction and Cooling Station

The reduction and cooling stations are applied in the commercial power industry for maintaining the pressure and temperature of steam within the limits determined by the technological process by injecting the cooling liquid.

The main elements of the reduction and cooling stations are:

- Steam Reduction Valves
- Desuperheaters (injectors of cooling water)
- Injection Valves

Desuperheaters

The purpose of the desuperheaters is to transport the cooling water to the cooling chamber in the maximum atomization condition in the whole range of working pressures and flow. Desuperheaters can be categorized in three types:

- Piston Desuperheaters
- Ring Desuperheaters
- Lance Desuperheaters

Piston Desuperheaters Type ST-1

It is applied in the system of regulating the steam temperature in the industry and energy sectors. The task of the desuperheater is to provide the injection of water with perfect atomization to the pipeline of superheated steam for the purpose of cooling it to the set parameters.

They consist of the valve part with a one- or two-stage valve head, and the head with injection nozzles. They provide a wide range of control (about 40:1), do not require an injection valve and may be equipped with a pneumatic or electric drive. They are applied in the DN150 pipelines.

Technical Table	
Nominal diameter - water	DN 25 ... DN 50 (NPS 1" up to 2")
Nominal pressure - water	PN 40; 63; 100
Nominal diameter - steam	DN 80 ... DN 150 (NPS 3" up to 6")
Nominal pressure - steam	PN 25; 40; 63; 100
Nozzles	with full and empty atomization cone ; spraying angle 60...90°
Material	body (bar stock execution), bonnet: 10CrMo 4-5; (1.7335) head, internal elements: X17CrNi 16-2; (1.4057) nozzles: X6CrNiMoTi 17-12-2; (1.4571)
Flow coefficient	Kvs 0,15...10
Leakage class	V class PN-IEC 60534-4
Rangeability	40:1

ST-1 Type Lance Steam Desuperheater

For smaller diameters of the pipeline and lower requirements in terms of control (about 3:1), it is recommended to use the lance desuperheaters. The lance desuperheaters are most frequently equipped with one injection nozzle and are recommended for the pipelines up to DN100.

Technical Table	
Materials	Body: S355J2G3 ; (1.0570); 13CrMo 4-5 ; (1.7335) Nozzles: X6CrNiMoTi 17-12-2 ; (1.4571)
Flow coefficient Kv	max 2.0
Rangeability	3:1

SP-1 Type Ring Steam Desuperheater

The ring desuperheaters are used for the diameters of steam pipelines up to DN150. these desuperheaters are fixed between the pipeline flanges. They contain 1..3 injection nozzles. The control of ring desuperheaters may be increased (up to about 15:1) by using multi-outlet injection valves.

Technical Table	
Materials	Body: S355J2G3 ; (1.0570); 13CrMo 4-5 ; (1.7335) Nozzles: X6CrNiMoTi 17-12-2 ; (1.4571) (with empty or full spray cone, degree 60…90°)
Flow coefficient Kv	max 1.0
Rangeability	3:1

Steam-Atomizing Desuperheater

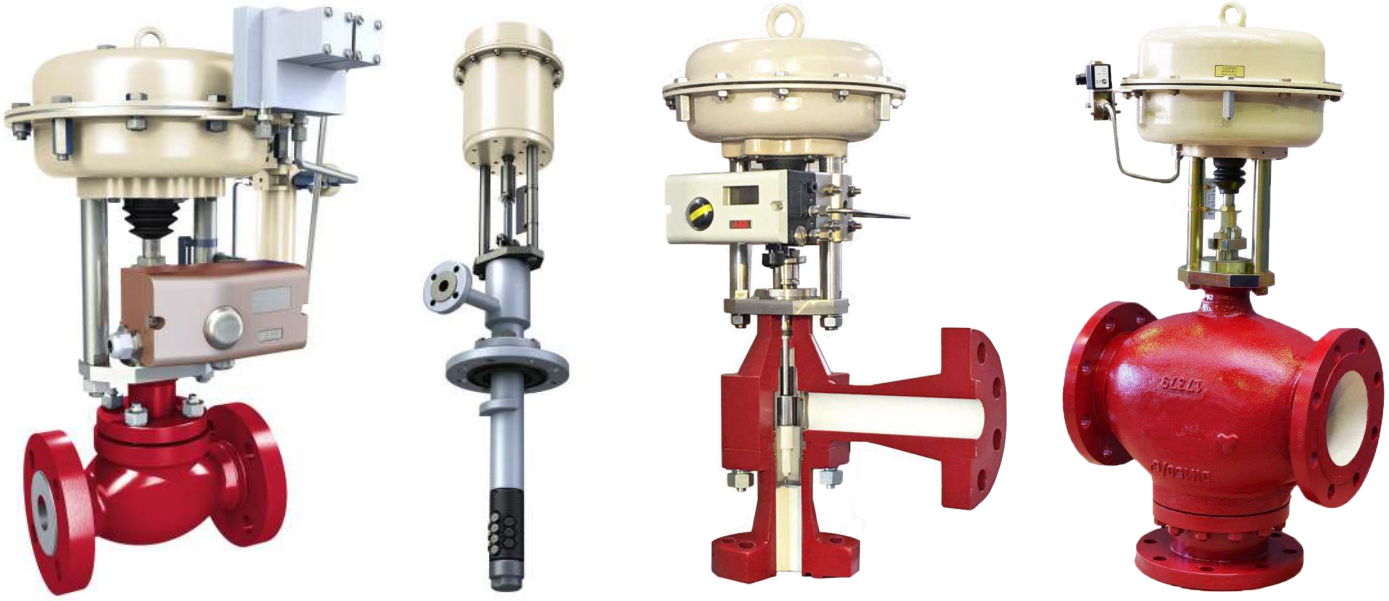
Feeding with auxiliary steam is necessary. Regulatability 1:15. Range of pipeline diameters: over DN150.

Passage Flanged Valve For 2-Directional Flows

Technical Table	
Nominal sizes	DN300 (12”)
Nominal pressure	PN100, CL600
Flow ratio	1350 m3/m
Rangeability	100:1
Body & bonnet material	carbon steel for low temperatures G20Mn5 (1.6220)

Our group of Valves with Pneumatic Actuators and Accessories

We supply valves with pneumatic actuators fitted with accessories according to customer requirements.



Valves with Manual Drives

Our product portfolio includes manual drivers used directly on control valves.

Our group of Valves with Electric Actuators

We use electric actuators of leading manufactures depending on installation requirements or customer suggestions. We could provide your specialized valves with electric actuators from various manufacturers such as:

- AUMA
- SIPOS
- REGADA
- DREHMO
- ROTORK
- SIEMENS
- HONEYWELL

And also Other brands based on customer's request.

Multi-Spring Pneumatic Diaphragm Actuators Type P/R

Diaphragm Actuators designed by SMART VALVES are known for their durability, performance and, most importantly, their widely adaptable features to fully suit the customers' needs. The multi-spring pneumatic diaphragm (membrane) actuators of P/R column style are applied for control operation of control valves and other positioning elements in industrial automatic systems.

Technical Table	
Active area of the membrane	160, 250, 400, 630, 2x630, 1000, 1500, 2x1500 cm^2
Stroke	20, 38, 50, 63, 80, 100 mm
Spring range	20...100 kPa up to 180... 380 kPa
Maximum supply pressure	600 kPa (for 160, 250, 400 and 630 cm^2) 500 kPa (for 2x630, 1000, 1500 and 2x1500 cm^2)
Working temperature	- 40 ... + 80°C
Handwheel	top mount

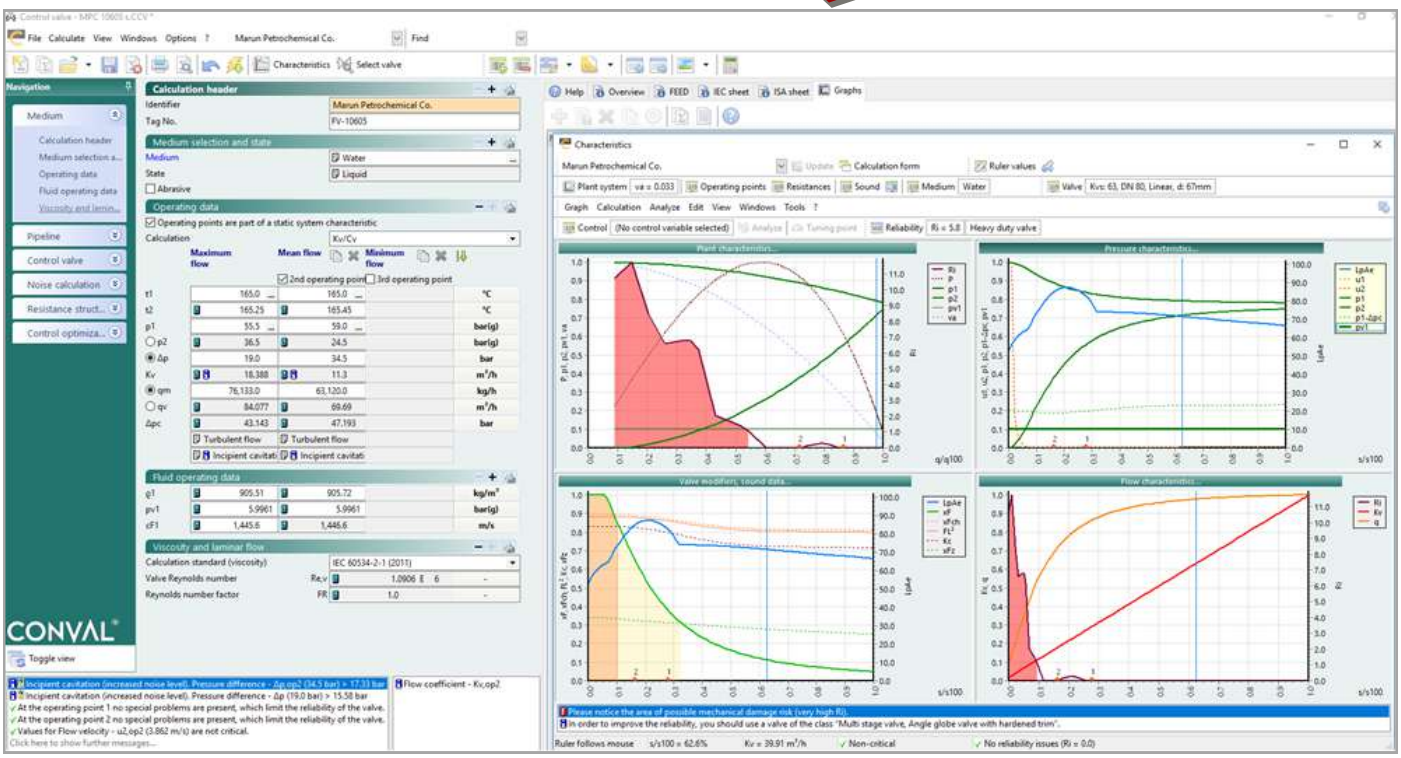
Multi-Spring Pneumatic Diaphragm (Membrane) Actuators Type P1/R1

The Multi-Spring Pneumatic Diaphragm (membrane) Actuators of P1/R1 Yoke Style are applied for control operation of control valves and other positioning elements in industrial automatic systems.

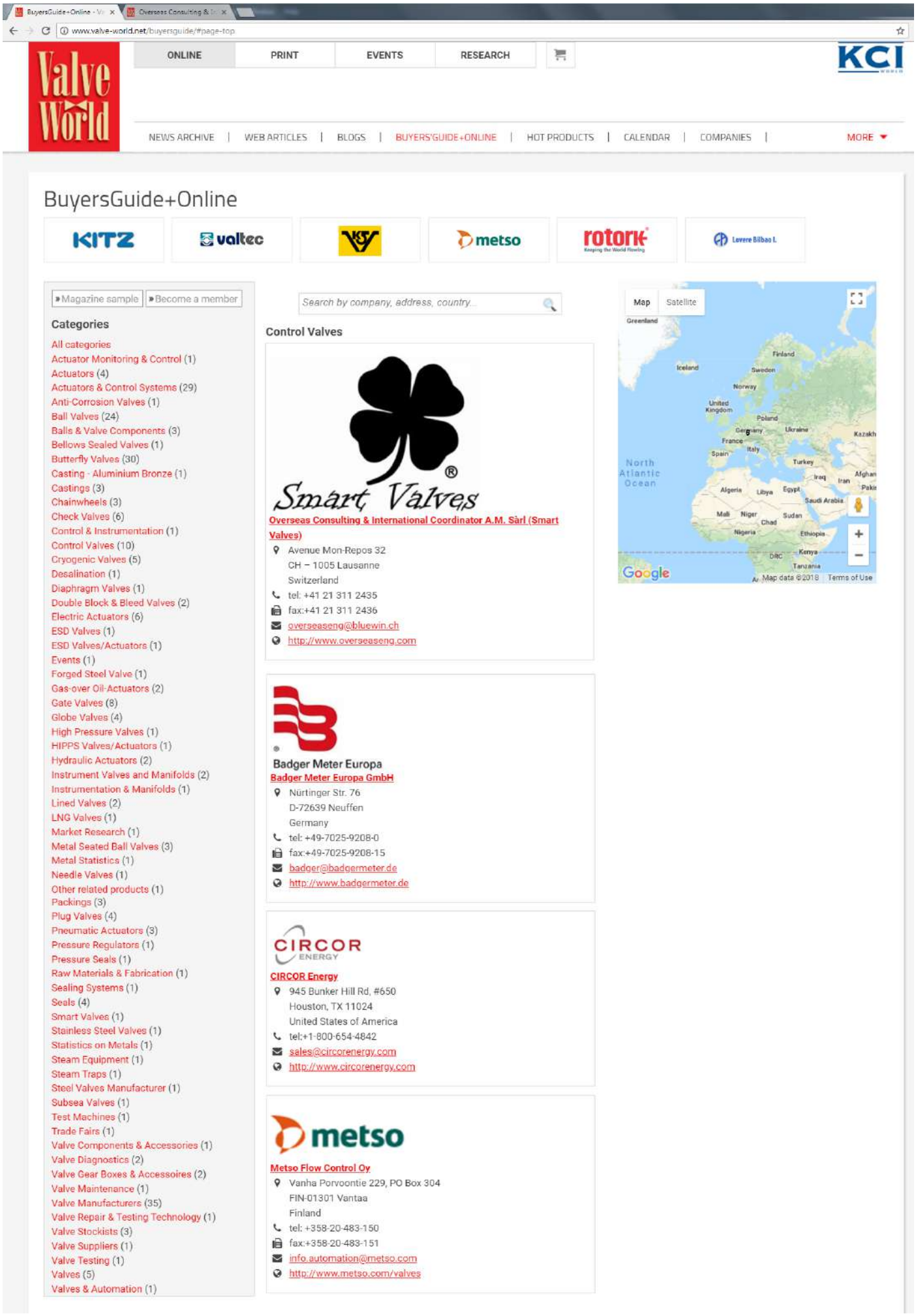
Technical Table	
Active area of the membrane	400, 630, 1000, 1500, 1500T cm²
Stroke	20, 38, 50, 63, 80, 100 mm
Spring range	20...100 kPa up to 180... 380 kPa
Maximum supply pressure	450 kPa (for 400 cm²)
Working temperature	- 40 ... + 80°C
Handwheel	side mount

Special Design Control Valves

Valve sizing based on Conval code



Our Valve Testing Facility: Test Assembling Machine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Desalination (1)
Diaphragm Valves (1)
Double Block & Bleed Valves (2)
Electric Actuators (6)
ESD Valves (1)
ESD Valves/Actuators (1)
Events (1)
Forged Steel Valve (1)
Gas-over Oil-Actuators (2)
Gate Valves (8)
Globe Valves (4)
High Pressure Valves (1)
HIPPS Valves/Actuators (1)
Hydraulic Actuators (2)
Instrument Valves and Manifolds (2)
Instrumentation & Manifolds (1)
Lined Valves (2)
LNG Valves (1)
Market Research (1)
Metal Seated Ball Valves (3)
Metal Statistics (1)
Needle Valves (1)
Other related products (1)
Packings (3)
Plug Valves (4)
Pneumatic Actuators (3)
Pressure Regulators (1)
Pressure Seals (1)
Raw Materials & Fabrication (1)
Sealing Systems (1)
Seals (4)
Smart Valves (1)
Stainless Steel Valves (1)
Statistics on Metals (1)
Steam Equipment (1)
Steam Traps (1)
Steel Valves Manufacturer (1)
Subsea Valves (1)
Test Machines (1)
Trade Fairs (1)
Valve Components & Accessories (1)
Valve Diagnostics (2)
Valve Gear Boxes & Accessoires (2)
Valve Maintenance (1)
Valve Manufacturers (35)
Valve Repair & Testing Technology (1)
Valve Stockists (3)
Valve Suppliers (1)
Valve Testing (1)
Valves (5)
Valves & Automation (1)
Control Valves
Smart Valves
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fax:+358-20-483-151
info.automation@metso.com
http://www.metso.com/valves
Map
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Smart Valves®

Overseas Consulting & International Coordinator A.M. Sàrl (Smart Valves) is a dynamic and well known company active in the field of advanced technology for **Control Valves**, under the brand of "***Smart Valves***", with a strong worldwide base portfolio of customers.

Smart Valves provides the best in class of Quality Control Valves available currently in the market **100% European** made, building on decades of experience in the field of chemical, petrochemical, oil & gas, power and all other major industries requesting solid, strong and reliable **Control Valves**.

Smart Control Valves are produced in various types:

- Standard single ported globe **Control Valve** (S)
- Heavy duty single ported globe **Control Valve** with anti-cavitation and anti-flashing trim and also low noise design (S1A and S1B)
- Double ported globe **Control Valve** for higher capacity and minimum required actuating force (S10)
- Rotary plug **Control Valve** for abrasive media with high rangeability (S33)
- Three way **Control Valve** for mixing and diverting of process fluids (S3)
- Angle globe **Control Valve** for choked service condition (S1A-C1)
- Minimum flow **Control Valve** (S1B-M)
- Self actuating pressure reducing regulators (SNR1,3,5)
- Linear multi-spring diaphragm actuator (P/R, P1/R1, P1B/R1B) and rotary spring diaphragm actuator (P99/R99 and PN99/RN99)
- Steam desuperheater: Ring type (SP-1), Lance and Piston type (ST-1)
- And also other special **valves** according to client requirements.

In a wide range of technical specification as follows:

- Nominal sizes from 1/2 to 16 inch (DN15 to DN400)
- Pressure ratings from CL150 to CL2500 (PN10 to PN420)
- Control characteristics as linear, equal percentage, quick-opening, modified
- Body materials of cast iron, spheroidal iron, carbon steel, alloy steel, stainless steel and special alloy.
- Leakage classes II, IV, V and VI as PN-EN 60534-4 and ANSI/FCI 70-2
- Bonnet types of standard, extended and bellow seal
- Special designs for oxygen, hydrogen, gas fuels, low temperature fluids (liquid oxygen, liquid nitrogen), acid gases containing H2S (as per ANSI/NACE MR-01-75/ISO15156); with heat jacket; for potentially explosive atmospheres (as per ATEX Directive 94/9/EC).
- **Valves** are executed with following types of connections: Flanged, Flangeless, Welding (BW, SW) and Threaded.
- The **Smart Control Valves** comply with the requirements of the European Pressure Equipment Directive 2014/68/EU and API, ANSI, ASME, ASTM, EN, FCI, IEC, ISA, NACE and other international standards.

Angle Choke Valve Type S1A-C1

Single Ported Globe Control Valve Type S

Single Ported Globe Control Valve Type S1B

Information

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overseaseng@bluewin.ch
http://www.overseaseng.com

Categories:
Control Valves

Control Valve Standards

Numerous standards are applicable to Smart's Control Valves.

API 598
API RP550 Sec. 6
API SPEC 6D

IPS-G-IN-160
IPS-C-IN-160
IPS-E-IN-100

NACE MR 01 75/ ISO 15156
NACE MR 01 03

MSS SP-6
MSS SP-25
MSS SP-44

ANSI/ ISA S5.1
ANSI/ ISA S75.01
ANSI/ ISA S75.02
ANSI/ ISA S75.03
ANSI/ ISA S75.05
ANSI/ ISA S75.11
ANSI/ ISA S75.12
ANSI/ ISA S75.12
ANSI/ ISA S75.13
ANSI/ ISA S75.15
ANSI/ ISA S75.16
ANSI/ ISA S75.17
ANSI/ ISA S75.19
ANSI/ ISA S75.22
ANSI/ ISA S75.23

ASTM A216
ASTM A217
ASTM A351
ASTM A193
ASTM A194

EN19, Marking
EN558-1
EN558-2
EN736-1
EN736-2
EN736-3
EN1349
EN1092-1
EN1759-1
EN12982
EN12266-1
EN12516-1
EN12516-2
EN12516-3
EN12627
EN12760
EN1092-2

ANSI/ASME B16.1
ANSI/ASME B16.4
ANSI/ASME B16.5
ANSI/ASME B16.10
ANSI/ASME B16.25
ANSI/ASME B16.34
ANSI/ASME B16.42

PN-EN 10213-1,2,3 &4
PN-EN 10025
PN-EN 10028
PN-EN 10088
PN-EN 10269

IEC 60534

FCI 70-2-1991

EN 50014

"Smart Control Valves" Technical Data Table

Please fill in the table below and send it to us in order to get the best fitting offer

1	Company Detail	Company Name					
2		Address					
3		Contact Person					
4		Telephone/Fax					
5		E-Mail					
6	PROCESS DATA RELEVANT FOR CONTROL VALVE SELECTION	Location					
7		Service					
8		Haz. area class	IP Code		SIL		
9		Ambient temp.	min.		max.		
10		Allowable sound pressure level					dB(A)
11		Upstream pipe NPS	Sch.		t(mm)		
12		Downstream pipe NPS	Sch.		t(mm)		
13		Pipe class	Material				
14		Pipe insulation	☐ thermal		☐ acoustic		
15		Design Pressure		Bar	Design Temp.	°C	
16		Pipe connection upstream					
17		Process Fluid					
18		Upstream cond.	☐ Liquid	☐ Steam	☐ Gas	☐ Two Phases	
19		Special fluid properties:					
20		Flow rate	Min.	Norm.	Max.	Unit	
21							
22		Inlet press. P1					
23		Outlet press. P2					
24		Temperature T1					
25		Inlet density ρ1 or M					
26		Vapour pressure Pv					
27		Critical pressure Pc					
28		Viscosity					
29		Specific heat ratio (k=Cp/Cv)					
30		Compressibility factor Z1					
31		Gas/vapour mass fract.				%	
32		Shut off pressure	P_1	P_2	Unit		
33		Air supply Min.	Max.		Unit		
34		Power/Signal fail position	☐ Open	☐ Close	☐ Remain		

Remarks:

Rev.	Date	Description	Prepared By	Checked by	Approved by	Remarks

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QUALITY MANAGEMENT SYSTEM CERTIFICATE

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This certificate is granted to the organization.

International West Technology Transfer Co.

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by review of IA2.018034 numbered report for the scope

Manufacturing and Assembling Control Valves and All Types of Industrial Valves and Manufacturing and Assembling All Type of Instrument Protection Boxes and Providing All Types of Automation Instrumentation and Equipment

to certify that a management system in accordance with standard's clauses is established and being implemented

DIN EN ISO 9001:2008

Certificate No : QMS 0916 018034
Date of Issue : 2015–09–02
Expiry Date : 2017–09–01
Certification Period : 3 Years (1st Year)

DAkkS Deutsche Akkreditierungsstelle D-ZM-16058-01-00

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by review of IA2.018034 numbered report for the scope

Manufacturing and Assembling Control Valves and All Types of Industrial Valves and Manufacturing and Assembling All Type of Instrument Protection Boxes and Providing All Types of Automation Instrumentation and Equipment

to certify that a management system in accordance with standard's clauses is established and being implemented

OHSAS 18001:2007

Certificate No : HSMS 0916 018034
Date of Issue : 2015–09–02
Expiry Date : 2017–09–01
Certification Period : 3 Years (1st Year)

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by review of IA2.018034 numbered report for the scope

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to certify that a management system in accordance with standard's clauses is established and being implemented

DIN EN ISO 14001:2009

Certificate No : EMS 0916 018034
Date of Issue : 2015–09–02
Expiry Date : 2017–09–01
Certification Period : 3 Years (1st Year)

DAkkS Deutsche Akkreditierungsstelle D-ZM-16058-01-00

Universal GmbH

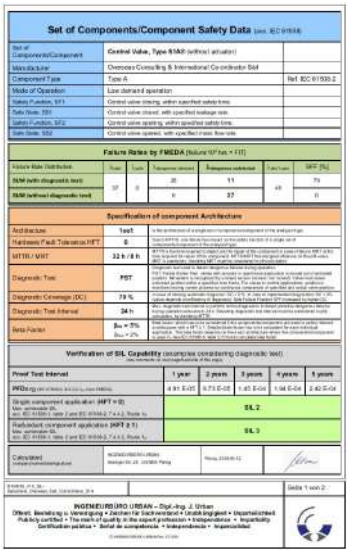
ISO 9001 | **OHSAS 18001** | **ISO 14001**

All our valves are certified by ATEX, Fire Safe & SIL

Physical Technical Testing Institute
Ostrava-Radvanice

Documentation receipt acknowledgement

A445 - 15



Set of Components/Component Safety Data

Failure Rates by FMEDA

Specification of component Architecture

Verification of SIL Capability (examples considering diagnostic test)

Physical Technical Testing Institute
Ostrava-Radvanice

Documentation receipt acknowledgement

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Physical Technical Testing Institute
Ostrava-Radvanice

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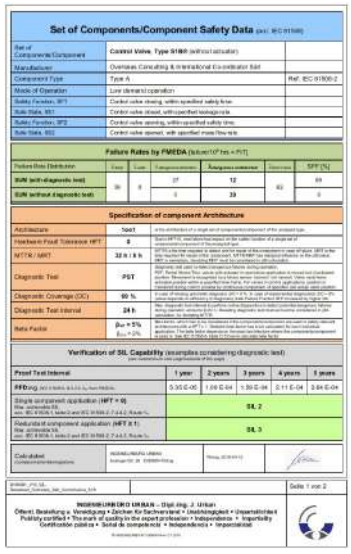

Set of Components/Component Safety Data

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Physical Technical Testing Institute, Ostrava-Radvanice
National testing authority No.210,
Certification body No. 3051 accredited by ČIA Praha

Certificate No.: FTZÚ 14 E 0013
about fire-safe testing of valve

International West Technology Transfer Co.

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Web: www.iwttco.com , **E-mail**: info@iwttco.com

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E-mail: workshop@iwttco.com

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