
RUBINETTERIE
BRESCIANE
OIL & GAS
VALPRES
VALBIA
BONOMI
GROUP

ENERGIES OF A GROUP

Only excellence allows to compete in the international market. The challenge can be faced thanks the passion and the energy of the researchers, who plans and manufactures avant-garde quality and technology, a team which is perfectly integrated for providing total customer satisfaction; we are ready.

RUBINETTERIE BRESCIANE

VALPRES

VALBIA

BONOMI GROUP

BONOMI GROUP

- Founded
Rubinetterie Bresciane: 1901
Valpres: 1978
Valbia: 1995

- Employees: 300
- 2013 sales: 100M€ (circa 140M USD)

RUBINETTERIE BRESCIANE

VALPRES

VALBIA

BONOMI GROUP

BONOMI GROUP WORLDWIDE

RUBINETTERIE BRESCIANE

VALPRES

VALBIA

BONOMI GROUP

GREEN COMPANY

+CENED CLASSE "A"

RUBINETTERIE BRESCIANE

VALPRES

VALBIA

BONOMI GROUP

RUBINETTERIE BRESCIANE

- Brass ball and butterfly valves
- Gas cocks
- Check valves
- Back flow prevention device
- Pressure reducers
- Self cleaning filters
- Multilayers pipe & press brass fittings
- Press systems & valves for copper, coppernickel, stainless & carbon steel pipes
- Manufacturing of turned and hot forged brass items according to customers' drawing

RUBINETTERIE BRESCIANE
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VALBIA
BONOMI GROUP

RUBINETTERIE BRESCIANE

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VALBIA

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- Stainless steels ball valves
- Carbon steel ball valves
- Cast iron ball valves
- Butterfly valves

RUBINETTERIE BRESCIANE

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RUBINETTERIE BRESCIANE

VALPRES

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BONOMI GROUP

VALBIA

- Rack & pinion double acting and spring return pneumatic actuators
- Electric actuators
- Supply and automation of ball and butterfly valves and accessories

RUBINETTERIE BRESCIANE

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RUBINETTERIE BRESCIANE

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VALBIA

BONOMI GROUP

Profile

The manufacturing facility spreads over an area of **26.000 Sq. metres,** with a total covered area of **15.000 Sq. metres**
. Annual capacity in excess of 400.000 valves.

70 people employed with strong valve industry experience.

VALPRES can ensure an outstanding customer service by leveraging the group software systems, from ERP to CRM, such as:

- **Engineering**: Solidworks, Solidworks simulation, Flowsimulation, Draft Sight

- **Sales and Order management**:Galileo (ERP), M@W and S@W (CRM systems)

- **Quality**: Galileo (for NC and claims tracking), Lotus notes DB (for the QA / QC scheme management)

- **Production**: Galileo

- **Management**: QLIK (BI tool)

RUBINETTERIE BRESCIANE VALPRES VALBIA BONOMI GROUP

Management Systems Certifications

ISO 9001 - ISO 14001

SQS

Certificate

SQS herewith certifies that the company named below has a management system which meets the requirements of the standards specified below.

VALPRES

Valpres S.r.l.
Via A. Gitti, 11
25060 Marcheno V.T. (BS)
Italia

Certified area
Entire site

Field of activity
Design and production of steel, cast iron and brass ball valves and of fluid interception devices

Standards
ISO 9001:2008 Quality Management System
ISO 14001:2004 Environmental Management System

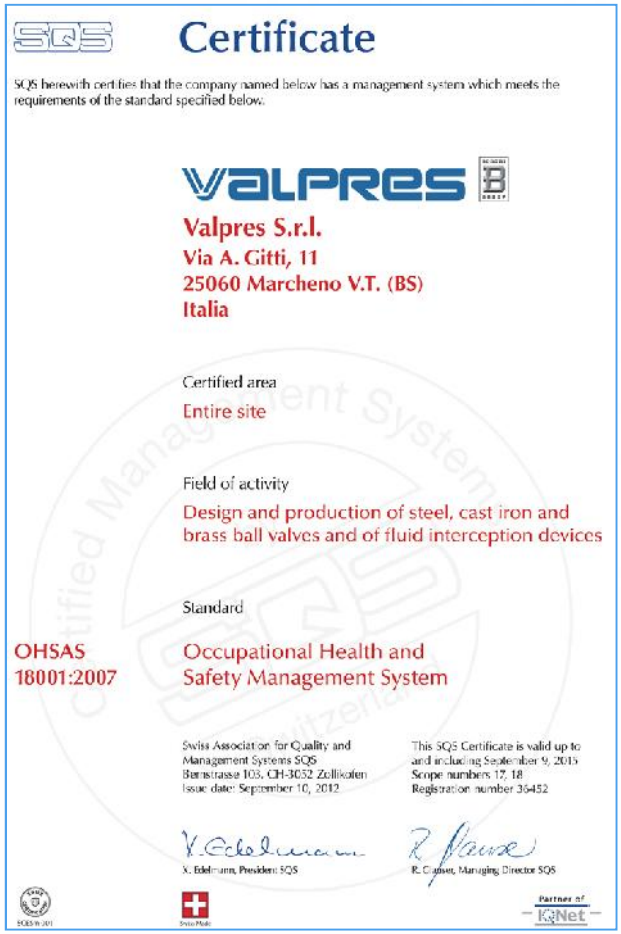
Swiss Association for Quality and Management Systems SQS
Bernstrasse 103, CH-3052 Zollikofen
Issue date: May 30, 2012

This SQS Certificate is valid up to and including May 29, 2015
Scope numbers 17, 18
Registration number 11013

X. Edelmann, President SQS
R. Glauser, Managing Director SQS

Partner of KiNet

OHSAS 18001



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Valpres S.r.l.
Via A. Gitti, 11
25060 Marcheno V.T. (BS)
Italia

Certified area
Entire site

Field of activity
Design and production of steel, cast iron and brass ball valves and of fluid interception devices

Standard
OHSAS 18001:2007 Occupational Health and Safety Management System

Swiss Association for Quality and Management Systems SQS
Bernstrasse 103, CH-3052 Zollikofen
Issue date: September 10, 2012

This SQS Certificate is valid up to and including September 9, 2015
Scope numbers 17, 18
Registration number 36452

X. Edelmann, President SQS
R. Glauser, Managing Director SQS

Partner of KiNet

RUBINETTERIE BRESCIANE

VALPRES

VALBIA

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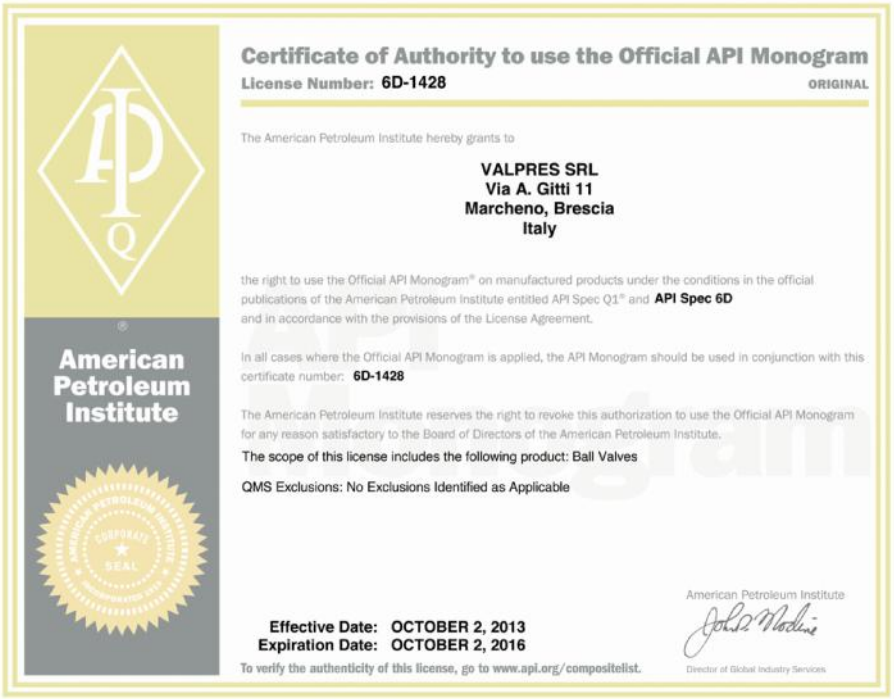
Management Systems Certifications Available
API 6D #1428 and API 6A # 1741



American Petroleum Institute

Certificate of Authority to use the Official API Monogram

License Number: 6D-1428 ORIGINAL

The American Petroleum Institute hereby grants to

VALPRES SRL
Via A. Gitti 11
Marcheno, Brescia
Italy

the right to use the Official API Monogram® on manufactured products under the conditions in the official publications of the American Petroleum Institute entitled API Spec Q1® and **API Spec 6D** and in accordance with the provisions of the License Agreement.

In all cases where the Official API Monogram is applied, the API Monogram should be used in conjunction with this certificate number: **6D-1428**

The American Petroleum Institute reserves the right to revoke this authorization to use the Official API Monogram for any reason satisfactory to the Board of Directors of the American Petroleum Institute.

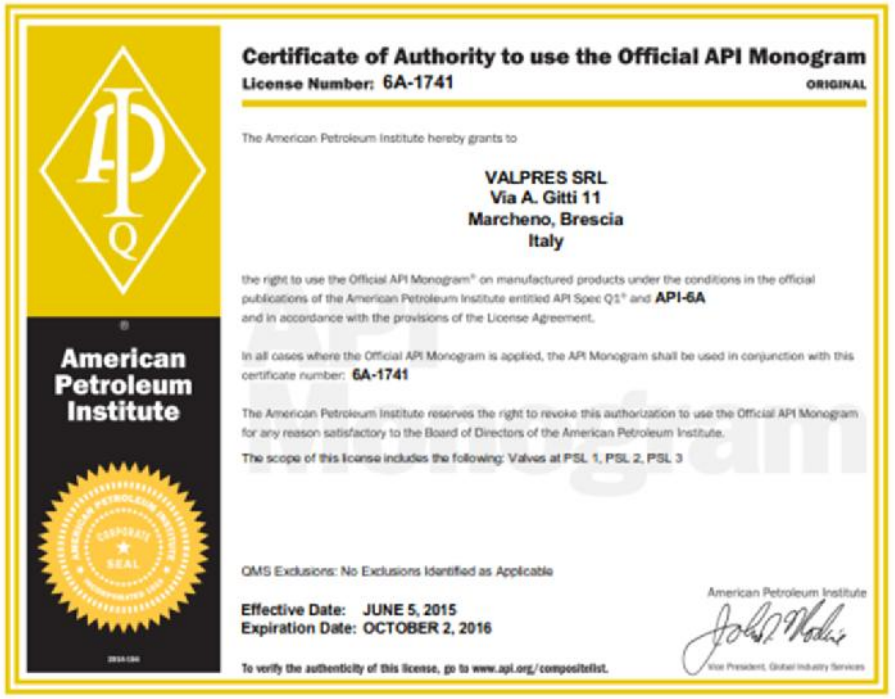
The scope of this license includes the following product: Ball Valves

QMS Exclusions: No Exclusions Identified as Applicable

Effective Date: OCTOBER 2, 2013
Expiration Date: OCTOBER 2, 2016

To verify the authenticity of this license, go to www.api.org/compositelist.

American Petroleum Institute
Director of Global Industry Services



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Marcheno, Brescia
Italy

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The American Petroleum Institute reserves the right to revoke this authorization to use the Official API Monogram for any reason satisfactory to the Board of Directors of the American Petroleum Institute.

The scope of this license includes the following: Valves at PSL 1, PSL 2, PSL 3

QMS Exclusions: No Exclusions Identified as Applicable

Effective Date: JUNE 5, 2015
Expiration Date: OCTOBER 2, 2016

To verify the authenticity of this license, go to www.api.org/compositelist.

American Petroleum Institute
Vice President, Global Industry Services

RUBINETTERIE BRESCIANE

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PRODUCT CERTIFICATIONS: Firesafe

Type 68 (side entry)

Abnahmeprüfzeugnis (Fire Test)
Inspection Certificate (Fire Test)
Certificat de Réception (Fire Test)

Valpres Fire Test Certificate on Ball Valve

This certificate is issued to Valpres S.r.l. Marcheno (BS)-ITALY

to certify that Mr. Enzo Santoro inspector to this Society did, at their request, attend Valpres S.r.l. works at via A. Gitti 11 Marcheno, for the purpose of witnessing the Fire-Safe Test according to ISO 10497:2010, API std 6D / ISO 14313 Annex D.5, API 607 SIXTH EDITION-2010, API 6FA THIRD EDITION-2008 on the following ball valve:

AUSTENITIC STEEL BALL VALVE-TYPE 68 DN 150 (SIZE 6") RATING 600 lbs ASTM A182 F316/316L MATERIAL ACCORDING TO DRAWING N° GA-1306FS-MT-001 REV.0 DATED: 17/02/2014.

The ball valve was tested in accordance with above specification.

Test apparatus, test procedure and test results, as described in Fire-Safe Test report N° 27-2014, dated 21st March 2014 endorsed by the undersigned, were found within the requirements of the above specification.

The valve has passed the Fire-Safe Test .

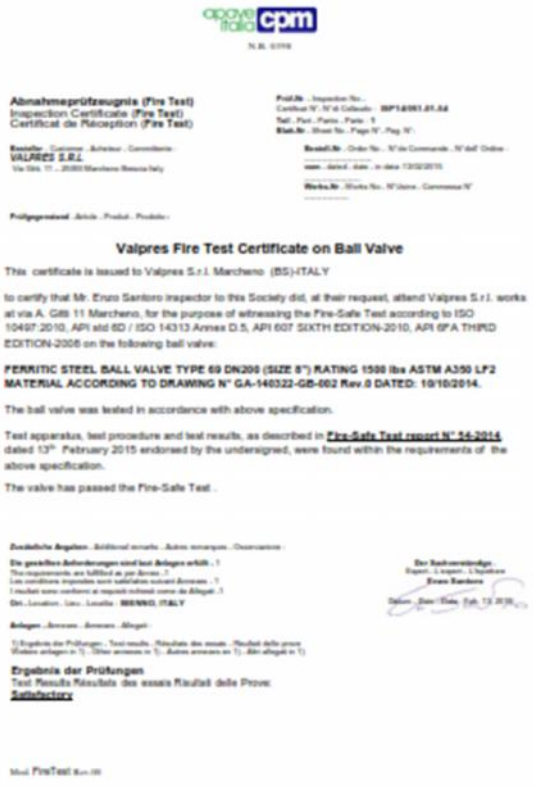
The valve **DN 6" rating 600** in Austenitic Material test report **27-2014** of mid-range size of the same design qualifies the t range as the full range in Ferritic material was previously qualified, see certificates APAVE Italy CPM No. ISP14/051-01-1 ISP14/051-01-20, ISP14/051-01-21, according to ISO 10497:2010 Paragraph 7.2.2.

Enzo Santoro

Ergebnis der Prüfungen
Test Results Résultats des essais Risultati delle Prove:
Satisfactory

Mod. FireTest Rev.00

Type 69 (top entry)



Abnahmeprüfzeugnis (Fire Test)
Inspection Certificate (Fire Test)
Certificat de Réception (Fire Test)

Valpres Fire Test Certificate on Ball Valve

This certificate is issued to Valpres S.r.l. Marcheno (BS)-ITALY

to certify that Mr. Enzo Santoro inspector to this Society did, at their request, attend Valpres S.r.l. works at via A. Gitti 11 Marcheno, for the purpose of witnessing the Fire-Safe Test according to ISO 10497:2010, API std 6D / ISO 14313 Annex D.5, API 607 SIXTH EDITION-2010, API 6FA THIRD EDITION-2008 on the following ball valve:

FERRITIC STEEL BALL VALVE TYPE 69 DN200 (SIZE 8") RATING 1500 lbs ASTM A350 LF2 MATERIAL ACCORDING TO DRAWING N° GA-140322-GB-002 Rev.0 DATED: 19/10/2014.

The ball valve was tested in accordance with above specification.

Test apparatus, test procedure and test results, as described in Fire-Safe Test report N° 54-2014, dated 13th February 2015 endorsed by the undersigned, were found within the requirements of the above specification.

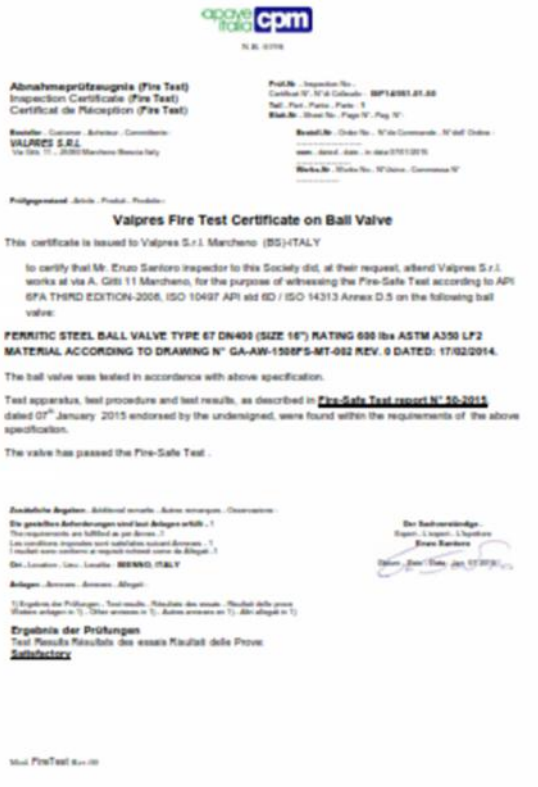
The valve has passed the Fire-Safe Test .

Enzo Santoro

Ergebnis der Prüfungen
Test Results Résultats des essais Risultati delle Prove:
Satisfactory

Mod. FireTest Rev.00

Type 67 (welded body)



Abnahmeprüfzeugnis (Fire Test)
Inspection Certificate (Fire Test)
Certificat de Réception (Fire Test)

Valpres Fire Test Certificate on Ball Valve

This certificate is issued to Valpres S.r.l. Marcheno (BS)-ITALY

to certify that Mr. Enzo Santoro inspector to this Society did, at their request, attend Valpres S.r.l. works at via A. Gitti 11 Marcheno, for the purpose of witnessing the Fire-Safe Test according to API 6FA THIRD EDITION-2008, ISO 10497 API std 6D / ISO 14313 Annex D.5 on the following ball valve:

FERRITIC STEEL BALL VALVE TYPE 67 DN400 (SIZE 16") RATING 600 lbs ASTM A350 LF2 MATERIAL ACCORDING TO DRAWING N° GA-AW-1508FS-MT-002 REV. 0 DATED: 17/02/2014.

The ball valve was tested in accordance with above specification.

Test apparatus, test procedure and test results, as described in Fire-Safe Test report N° 50-2015, dated 07th January 2015 endorsed by the undersigned, were found within the requirements of the above specification.

The valve has passed the Fire-Safe Test .

Ergebnis der Prüfungen
Test Results Résultats des essais Risultati delle Prove:
Satisfactory

Mod. FireTest Rev.00

RUBINETTERIE BRESCIANE

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PRODUCT CERTIFICATIONS

Fugitive emission tests certs TA-Luft & VDI 2440 for split body valves, ISO 15848-1 for trunnion valves

TÜV SÜDDEUTSCHLAND

BESCHEINIGUNG

Prüfbericht-Nr.: BB-DDB-MAN/215/02

Hersteller: Valpres S.r.l.
Via A. Gitti 11

I-25060 Marcheno (Brescia)

Gegenstand: Schaltwellendurchführungen von Kugelhähnen der Serie 76

Die o.g. Gegenstände wurden einer Helium-Dichtheitsprüfung unterzogen.

Die in der Verwaltungsvorschrift TA Luft vom 27.02.1986 unter Punkt 3.1.8.4 angesprochene Gleichwertigkeit ist unserer Meinung nach erfüllt.

Der Geltungsbereich mit allen Einzelheiten ist im Prüfbericht festgehalten.

Mannheim, den 30. Oktober 2002
BB-DDB-MAN/jo-ks

TÜV BAYERN HESSEN SACHSEN SÜDWEST E.V.
Bau und Betrieb
Dampf- Drucktechnik
Kompetenzzentrum Druckbehälteranlagen
Die Sachverständige

Dipl.-Ing. John

Technischer Bericht

IS-DDB-MAN/140/04

über eine Helium-Dichtheitsprüfung
nach VDI 2440 (Ausgabe 11.02) an einer Schaltwellen-
durchführung von einem Kugelhahn
der Firma Valpres S.r.l., Italien

Hersteller: Valpres S.r.l.
Via A. Gitti 11
I – 25060 Marcheno (Brescia)

Vertreten durch: Bonomi GmbH
Im Dachsstück 6
65549 Limburg a. d. Lahn

Ausgestellt am: 2004-08-11 2 Ausfertigungen mit je 4 Seiten und 2 Anlagen

Bearbeiter: Dipl.-Ing. John

Abnahmeprüfzeugnis (FET)
Inspection Certificate (FET)
Certificat de Réception (FET)

Valpres ISO 15848-2 Fugitive Emission Production Test

This certificate is issued to Valpres S.r.l. Marcheno (BS)-ITALY

to certify that Mr. Enzo Santoni inspector to this Society did, at their request, attend Valpres S.r.l. works at Montani srl, via Vicinale della Malpaga, Garenzano (VA), for the purpose of witnessing the PRODUCTION TEST according to ISO 15848-2 on the following ball valve:

FERRETIC STEEL BALL VALVE TYPE 68 DN600 (SIZE 24") RATING 600 lbs ASTM A105 MATERIAL ACCORDING TO DRAWING N° 68C40660 Rev.A DATED: 18/12/2014.

The ball valve was tested according to I-PSQ-8.2.4/16 "Fugitive Emission – Type Testing qualification procedure according to ISO 15848-1 and Production testing according to ISO 15848-2".

On the basis of the results, the above valve satisfactorily passed the ISO 15848-2 production test.

Test apparatus, test procedure and test results, as described in Production test report N° 14021-02, dated 11th June 2015 endorsed by the undersigned, were found within the requirements of the above specification.

Ergebnis der Prüfungen
Test Results Risultati dei vessis Risultati delle Prove:
Satisfactory

Mod. FET 15848-2

RUBINETTERIE BRESCIANE

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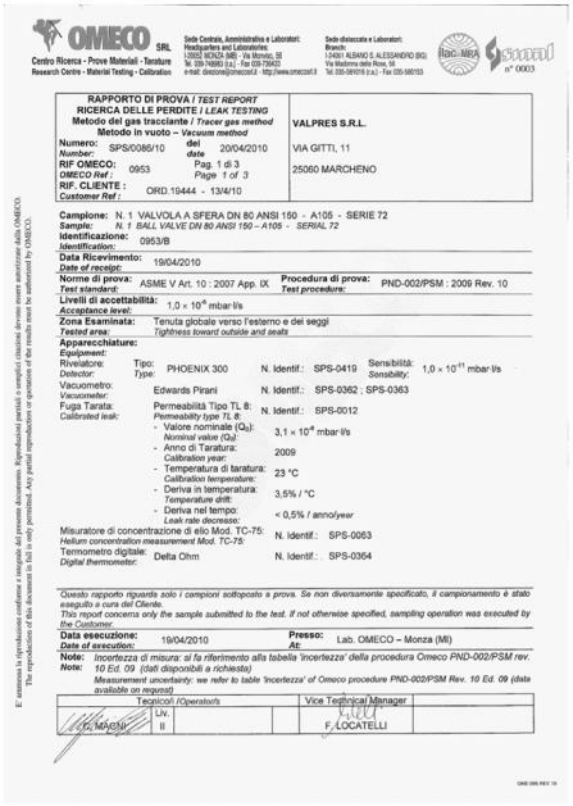
PRODUCT CERTIFICATIONS: *Vacuum tests*



OMECO SRL
Centro Ricerca - Prove Materiali - Taratura
Research Centre - Material Testing - Calibration

RAPPORTO DI PROVA / *TEST REPORT*
RICERCA DELLE PERDITE / *LEAK TESTING*
Metodo del gas tracciante / *Tracer gas method*
Metodo in vuoto – *Vacuum method*

Numero / *Number:* SPS/0086/10 **del / *date*** 20/04/2010
RIF OMECO / *OMECO Ref.:* 0953 Pag. 1 di 3 / *Page 1 of 3*
RIF. CLIENTE / *Customer Ref.:* ORD.19444 - 13/4/10

VALPRES S.R.L.
VIA GITTI, 11
25060 MARCHENO

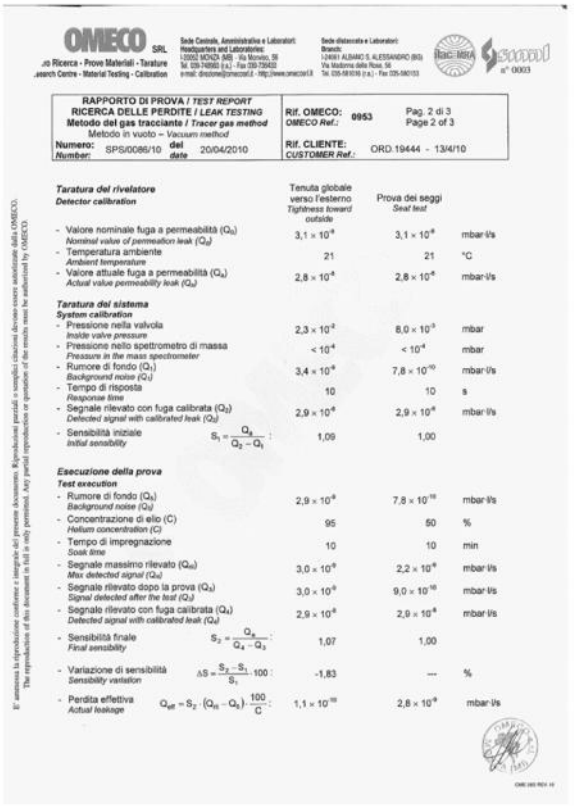
Campione / *Sample:* N. 1 VALVOLA A SFERA DN 80 ANSI 150 - A105 - SERIE 72 / *N. 1 BALL VALVE DN 80 ANSI 150 – A105 - SERIAL 72*
Identificazione / *Identification:* 0953/B
Data Ricevimento / *Date of receipt:* 19/04/2010
Norme di prova / *Test standard:* ASME V Art. 10 : 2007 App. IX **Procedura di prova / *Test procedure:*** PND-002/PSM : 2009 Rev. 10
Livelli di accettabilità / *Acceptance level:* $1{,}0 \times 10^{-6}$ mbar l/s
Zona Esaminata / *Tested area:* Tenuta globale verso l'esterno e dei seggi / *Tightness toward outside and seats*
Apparecchiature / *Equipment:*
Rivelatore / *Detector:* Tipo / *Type:* PHOENIX 300 N. Identif.: SPS-0419 Sensibilità / *Sensibility:* $1{,}0 \times 10^{-11}$ mbar l/s
Vacuometro / *Vacuometer:* Edwards Pirani N. Identif.: SPS-0362 ; SPS-0363
Fuga Tarata / *Calibrated leak:* Permeabilità Tipo TL 8: N. Identif.: SPS-0012 / *Permeability type TL 8:*
- Valore nominale (Q_N) / *Nominal value (Q_N):* $3{,}1 \times 10^{-8}$ mbar l/s
- Anno di Taratura / *Calibration year:* 2009
- Temperatura di taratura / *Calibration temperature:* 23 °C
- Deriva in temperatura / *Temperature drift:* 3,5% / °C
- Deriva nel tempo / *Leak rate decrease:* < 0,5% / *anno/year*

Misuratore di concentrazione di elio Mod. TC-75 / *Helium concentration measurement Mod. TC-75:* N. Identif.: SPS-0063
Termometro digitale / *Digital thermometer:* Delta Ohm N. Identif.: SPS-0364

Questo rapporto riguarda solo i campioni sottoposto a prova. Se non diversamente specificato, il campionamento è stato eseguito a cura del Cliente.
This report concerns only the sample submitted to the test. If not otherwise specified, sampling operation was executed by the Customer.

Data esecuzione / *Date of execution:* 19/04/2010 **Presso / *At:*** Lab. OMECO – Monza (MI)
Note / *Note:* *Incertezza di misura: si fa riferimento alla tabella 'incertezza' della procedura Omeco PND-002/PSM rev. 10 Ed. 09 (dati disponibili a richiesta)*
Measurement uncertainty: we refer to table 'incertezza' of Omeco procedure PND-002/PSM Rev. 10 Ed. 09 (data available on request)

Tecnico/i /*Operator/s*	Liv.	Vice Technical Manager
G. MAGNI	II	F. LOCATELLI

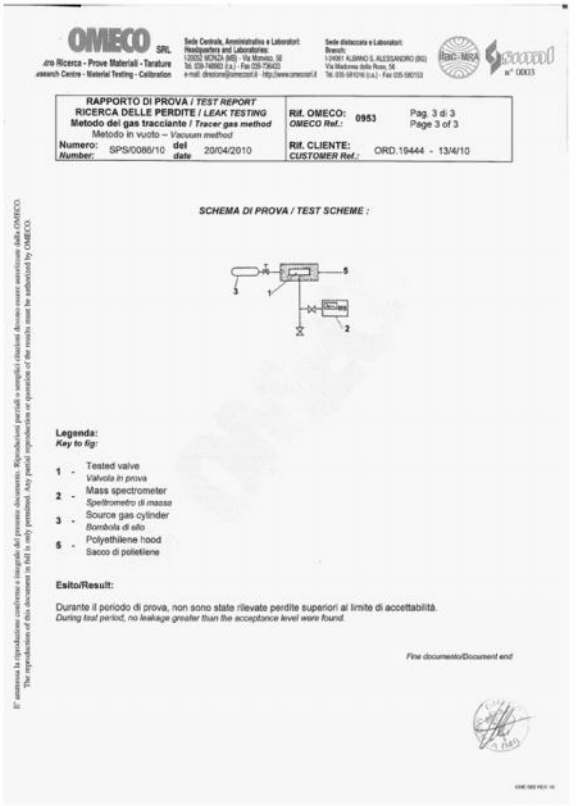


OMECO SRL
...ro Ricerca - Prove Materiali - Taratura
...esearch Centre - Material Testing - Calibration

RAPPORTO DI PROVA / *TEST REPORT*
RICERCA DELLE PERDITE / *LEAK TESTING*
Metodo del gas tracciante / *Tracer gas method*
Metodo in vuoto – *Vacuum method*

Numero / *Number:* SPS/0086/10 **del / *date*** 20/04/2010
Rif. OMECO / *OMECO Ref.:* 0953 Pag. 2 di 3 / *Page 2 of 3*
Rif. CLIENTE / *CUSTOMER Ref.:* ORD.19444 - 13/4/10

		Tenuta globale verso l'esterno / *Tightness toward outside*	Prova dei seggi / *Seat test*	
Taratura del rivelatore / Detector calibration				
- Valore nominale fuga a permeabilità (Q_N) / *Nominal value of permeation leak (Q_N)*		$3{,}1 \times 10^{-8}$	$3{,}1 \times 10^{-8}$	mbar l/s
- Temperatura ambiente / *Ambient temperature*		21	21	°C
- Valore attuale fuga a permeabilità (Q_a) / *Actual value permeability leak (Q_a)*		$2{,}8 \times 10^{-8}$	$2{,}8 \times 10^{-8}$	mbar l/s
Taratura del sistema / System calibration				
- Pressione nella valvola / *Inside valve pressure*		$2{,}3 \times 10^{-2}$	$8{,}0 \times 10^{-3}$	mbar
- Pressione nello spettrometro di massa / *Pressure in the mass spectrometer*		$< 10^{-4}$	$< 10^{-4}$	mbar
- Rumore di fondo (Q_1) / *Background noise (Q_1)*		$3{,}4 \times 10^{-8}$	$7{,}8 \times 10^{-10}$	mbar l/s
- Tempo di risposta / *Response time*		10	10	s
- Segnale rilevato con fuga calibrata (Q_2) / *Detected signal with calibrated leak (Q_2)*		$2{,}9 \times 10^{-8}$	$2{,}9 \times 10^{-8}$	mbar l/s
- Sensibilità iniziale / *Initial sensibility*	$S_1 = \frac{Q_a}{Q_2 - Q_1}$:	1,09	1,00	
Esecuzione della prova / Test execution				
- Rumore di fondo (Q_3) / *Background noise (Q_3)*		$2{,}9 \times 10^{-8}$	$7{,}8 \times 10^{-10}$	mbar l/s
- Concentrazione di elio (C) / *Helium concentration (C)*		95	50	%
- Tempo di impregnazione / *Soak time*		10	10	min
- Segnale massimo rilevato (Q_m) / *Max detected signal (Q_M)*		$3{,}0 \times 10^{-8}$	$2{,}2 \times 10^{-8}$	mbar l/s
- Segnale rilevato dopo la prova (Q_3) / *Signal detected after the test (Q_3)*		$3{,}0 \times 10^{-8}$	$9{,}0 \times 10^{-10}$	mbar l/s
- Segnale rilevato con fuga calibrata (Q_4) / *Detected signal with calibrated leak (Q_4)*		$2{,}9 \times 10^{-8}$	$2{,}9 \times 10^{-8}$	mbar l/s
- Sensibilità finale / *Final sensibility*	$S_2 = \frac{Q_a}{Q_4 - Q_3}$:	1,07	1,00	
- Variazione di sensibilità / *Sensibility variation*	$\Delta S = \frac{S_2 - S_1}{S_1} \cdot 100$:	-1,83	---	%
- Perdita effettiva / *Actual leakage*	$Q_{eff} = S_2 \cdot (Q_m - Q_3) \cdot \frac{100}{C}$:	$1{,}1 \times 10^{-10}$	$2{,}8 \times 10^{-9}$	mbar l/s



OMECO SRL
...ro Ricerca - Prove Materiali - Taratura
...esearch Centre - Material Testing - Calibration

RAPPORTO DI PROVA / *TEST REPORT*
RICERCA DELLE PERDITE / *LEAK TESTING*
Metodo del gas tracciante / *Tracer gas method*
Metodo in vuoto – *Vacuum method*

Numero / *Number:* SPS/0086/10 **del / *date*** 20/04/2010
Rif. OMECO / *OMECO Ref.:* 0953 Pag. 3 di 3 / *Page 3 of 3*
Rif. CLIENTE / *CUSTOMER Ref.:* ORD.19444 - 13/4/10

SCHEMA DI PROVA / TEST SCHEME :

Legenda:
Key to fig:

1 - Tested valve / *Valvola in prova*
2 - Mass spectrometer / *Spettrometro di massa*
3 - Source gas cylinder / *Bombola di elio*
5 - Polyethilene hood / *Sacco di polietilene*

Esito/Result:

Durante il periodo di prova, non sono state rilevate perdite superiori al limite di accettabilità.
During test period, no leakage greater than the acceptance level were found.

Fine documento/Document end

RUBINETTERIE BRESCIANE

VALPRES

VALBIA

BONOMI GROUP

VALPRES

PRODUCT RANGE

RUBINETTERIE BRESCIANE

VALPRES

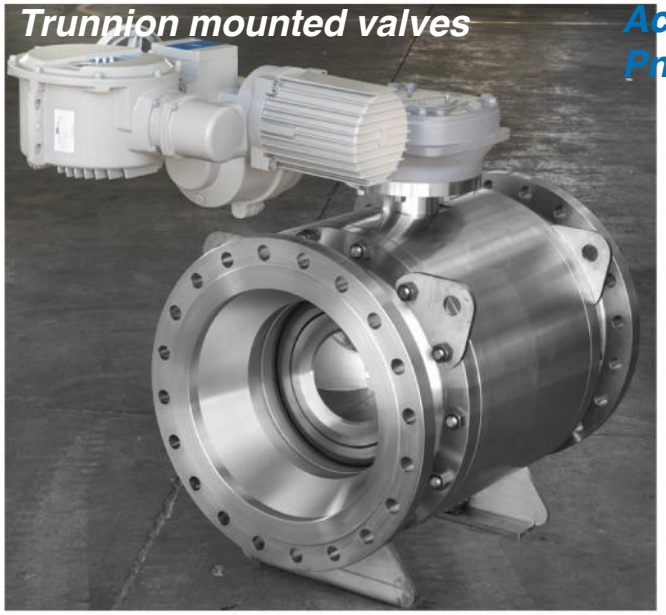
VALBIA

BONOMI GROUP

PRODUCT RANGE

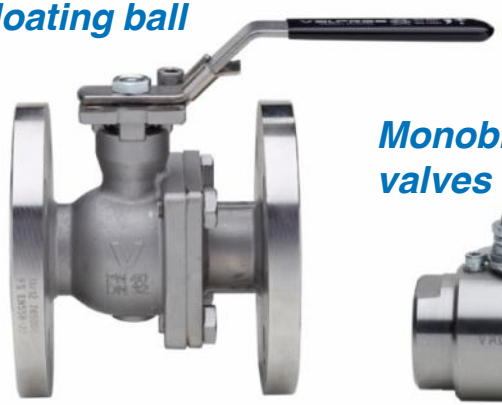
Split body forged floating ball

Trunnion mounted valves



Actuated valves Pneumatic

Split body cast Floating ball



Monobloc valves

Fully welded floating ball

Actuated valves Electric

... A COMPREHENSIVE RANGE OF PRODUCTS FOR THE MOST VARIED FIELD OF APPLICATIONS

RUBINETTERIE BRESCIANE

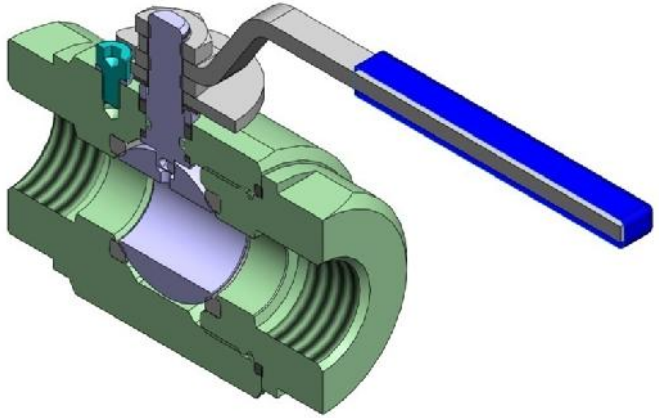
VALPRES

VALBIA

BONOMI GROUP

PRODUCT RANGE: Monobloc (Type 70)

Monobloc valves



Size / Rating	150	300	600	800
½”	O	O	O	O
¾”	O	O	O	O
1”	O	O	O	O
1 ½”	O	O	O	O
2”	O	O	O	O

Operating temperatures:
-40° C- +200° C (-40° F - +392° F) Standard Range

Construction standards:
ASME-ANSI B16.34, ISO 17292

Main Characteristics:
Forged or cast components / Threaded body design
Soft seated

Available materials: Carbon Steels, Stainless Steels, Duplex, Nickel Alloys

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VALPRES

VALBIA

BONOMI GROUP

PRODUCT RANGE: Welded body floating ball (Type 706)

Application: LP gas distribution lines

Size * Rating	PN16	150
½”	O	O
¾”	O	O
1”	O	O
1 ½”	O	O
2”	O	O
3”	O	O
4”	O	O
6”	O	O
8”	O	O
10”	O	O
12”	O	O

Operating temperatures:
-20° C- +120° C (-4° F - +250F) Standard Range

Construction standards:
ASME-ANSI B16.34, ISO 17292

Main Characteristics:
Forged or cast components / Welded body design
Soft seated, Welding ends

Available materials: Carbon steel with Stainless Steel trim
Available also with upstream and downstream vent valves

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PRODUCT RANGE: Split body bolted (Type 76)

Split body forged floating ball

Split body cast Floating ball

Size * / Rating	150	300	600	900	1500	2500
½”	O	O	O	O	O	O
¾”	O	O	O	O	O	O
1”	O	O	O	O	O	O
1 ½”	O	O	O	O	O	O
2”	O	O	O	O	O	
3”	O	O	O			
4”	O	O	O			
6”	O	O				
8”	O	O				

** Valves 2” and above are available in both full and reduced bore*

Operating temperatures:
-40° C- +200° C (-40° F - +392° F) Standard Range
-196° C - +350° C (-321° F - +675° F) Special Range

Construction standards:
ASME-ANSI B16.34, ISO 17292, API 608

Main Characteristics:
Forged or cast components / Bolted body design / Soft seated /or metal seated / Flanged ends

Available materials: Carbon Steels, Stainless Steels, Duplex, Nickel Alloys

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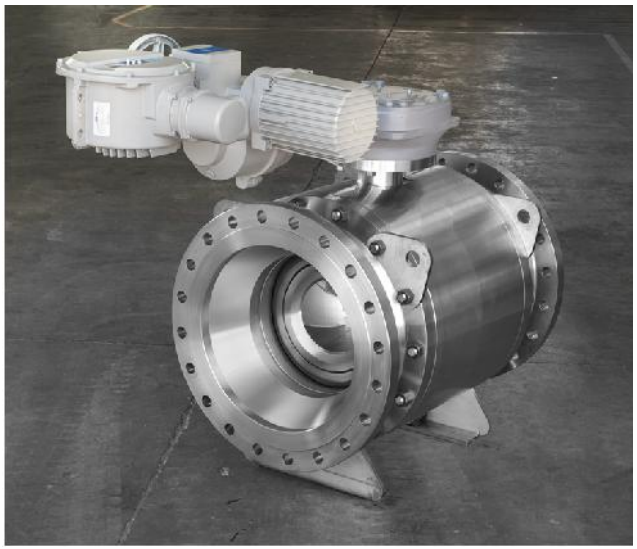
PRODUCT RANGE: Trunnion mounted (Type 67, 68, 69, 78, 79)

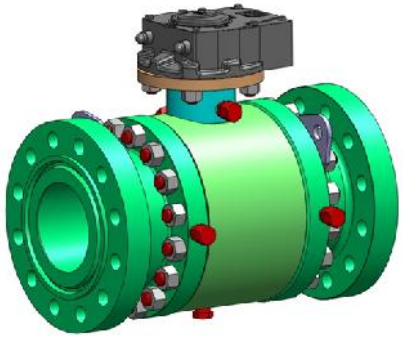


Size/ Rating	150	300	600	900	1500	2500
1" 1/2	•	•	•	•	•	•
2"	•	•	•	•	•	•
3"	•	•	•	•	•	•
4"	•	•	•	•	•	•
6"	•	•	•	•	•	•
8"	•	•	•	•	•	•
10"	•	•	•	•	•	•
12"	•	•	•	•	•	•
14"	•	•	•	•	•	
16"	•	•	•	•	•	
18"	•	•	•	•	•	
20"	•	•	•	•	•	
24"	•	•	•	•	•	
30"	•	•	•	•		
36"	•	•	•	•		
42"	•	•	•			

Size/ Rating	API 2000	API 3000	API 5000	API 10000
1.13/16"	•	•	•	•
2.1/16"	•	•	•	•
2.9/16"	•	•	•	•
3.1/16"			•	•
3.1/8"	•	•		
4.1/16"	•	•	•	•
5.1/8"	•	•	•	•
7.1/16"	•	•	•	•

** Valves 2" and above are available in both full and reduced bore*

Operating temperatures:
-40° C- +200° C (-40° F - +392° F) Standard Range
-196° C - +350° C (-321° F - +675° F) Special Range



Construction standards:
API 6D Design, ASME-ANSI B16.34 / NACE MR0175-last edition /
Firesafe to API 6FA/API 607/ISO 10497 – Testing to API 598
Available designs: bolted body, welded body, top entry

Main Characteristics:
Forged or cast components / Bolted body design / Soft seated /or metal seated /
Flanged ends / Self Relieving and Double Piston effect seats / Double block and bleed

Available materials: Carbon Steels, Stainless Steels, Duplex, Nickel Alloys

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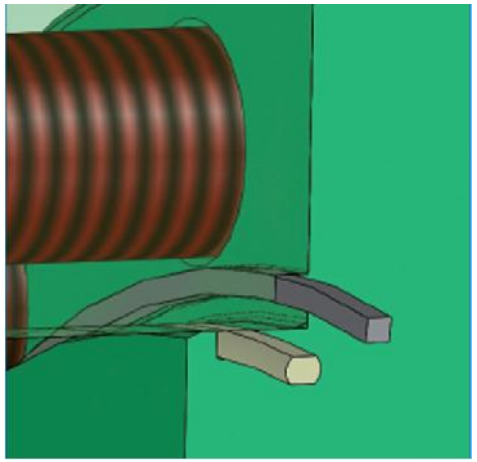
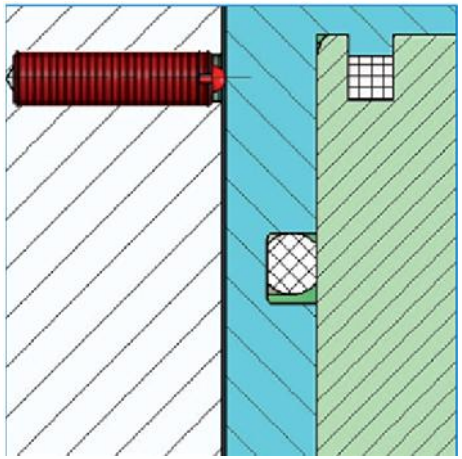
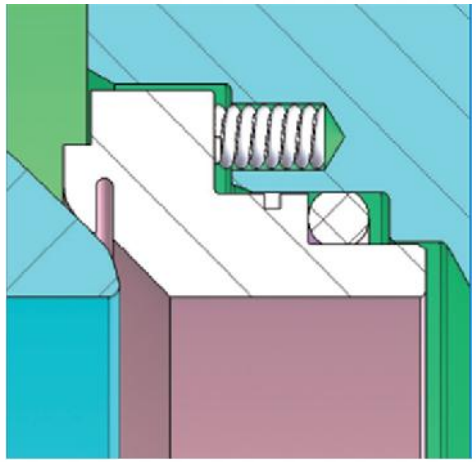
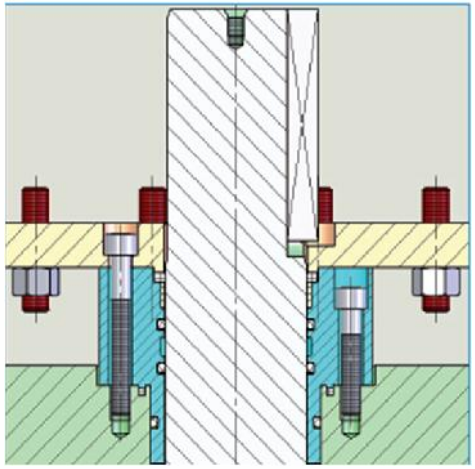
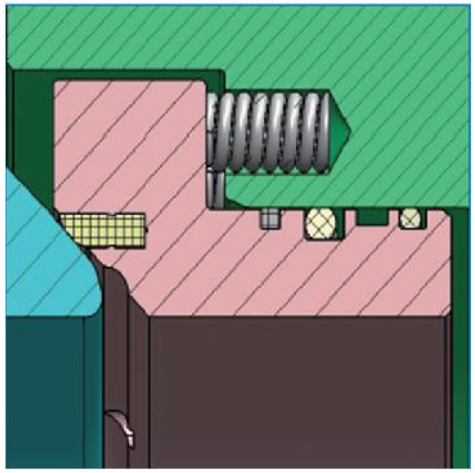
Trunnion mounted valves: some features

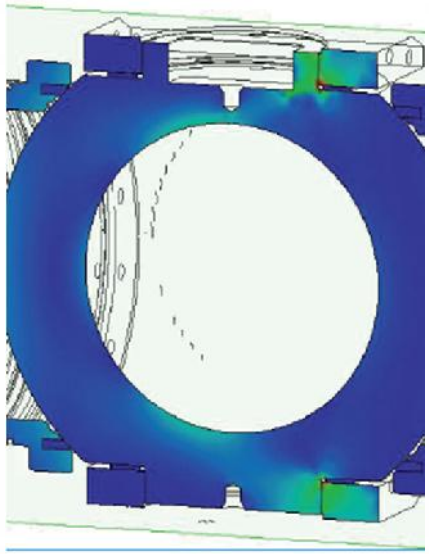












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Floating and trunnion mounted valves for cryogenic service

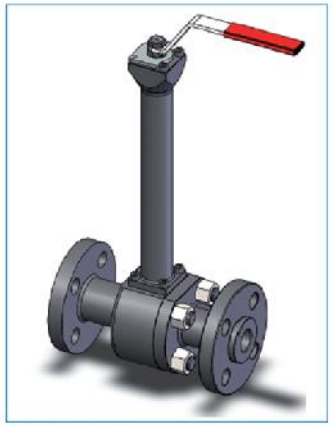

Fig. 1 - Floating ball split body side entry.

Fig. 1 - Valvola s sfera flottante tipo side entry.

Fig. 2 - Floating ball top entry.

Fig. 2 - Valvola flottante tipo top entry.

Fig. 3 - Trunnion mounted valves split body side entry.

Fig. 3 - Valvola trunnion tipo side entry.

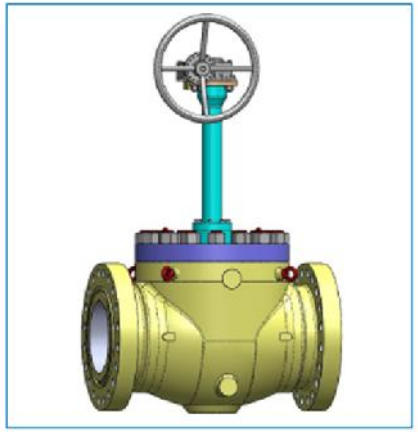

Fig. 4 - Trunnion mounted valves top entry.

Fig. 4 - Valvole trunnion tipo top entry.

Fig. 5 - Double block and bleed - twin ball valves.

Fig. 5 - Valvole double block and bleed - doppia sfera.

TYPICAL APPLICATIONS

- LNG storage, distribution, loading and unloading.
- CO_2 and nitrogen injection for enhanced oil recovery.
- Petroleum refining and gas treatment skids.
- Air separation plants.
- LNG-LPG, CO_2 and food trailers/carriers.
- Fuel stations.
- High purity cryogenic/gas systems.
- Lyophilization systems.
- Liquid and gaseous oxygen for steel production.

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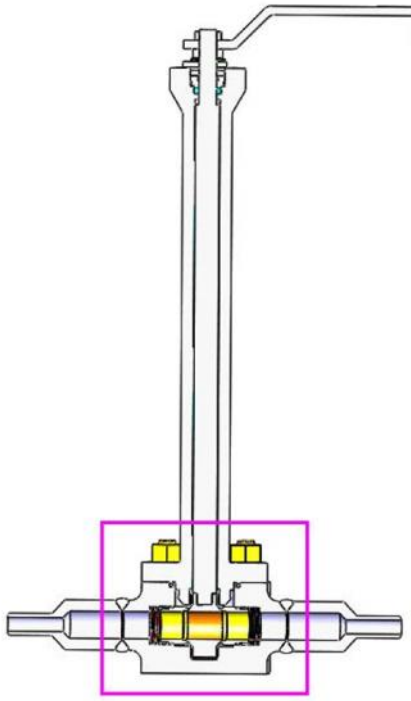
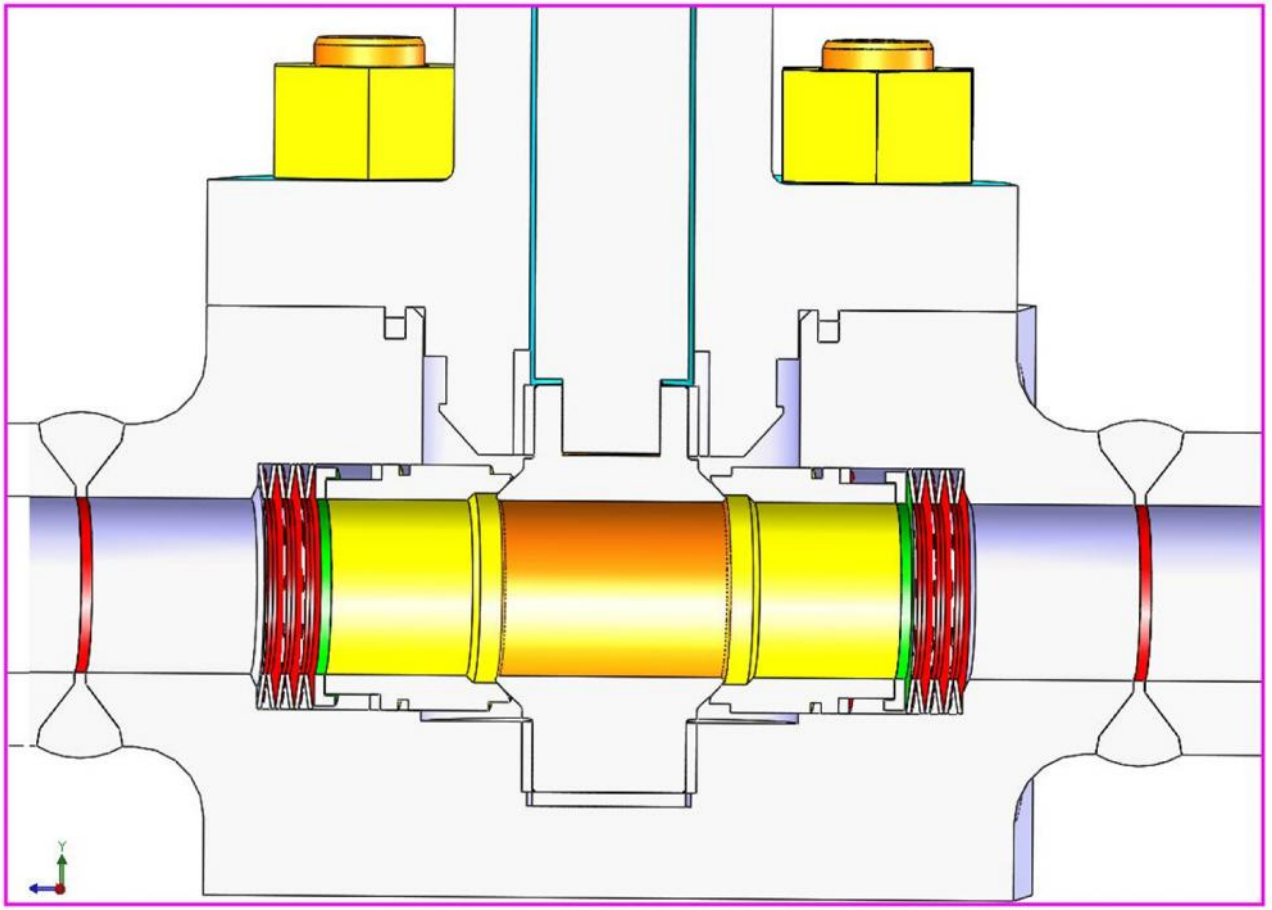
Trunnion ball valves for Cryogenic service: a real case



¾” – 1 ½” 2500#
Trunnion
Metal Seated
BS 6364



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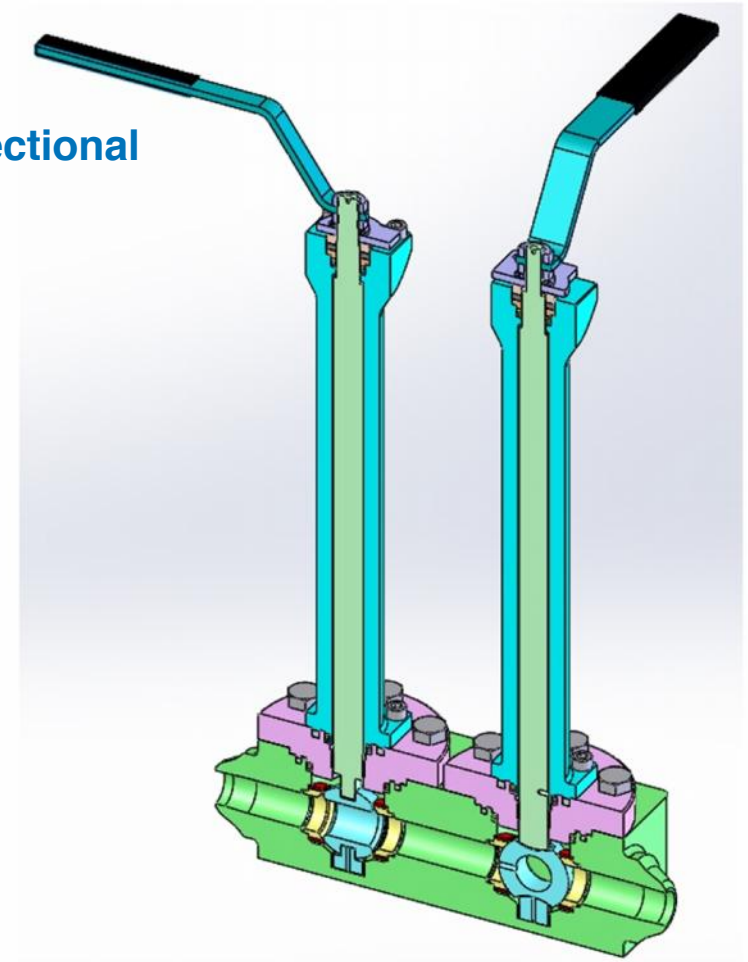
PRODUCT RANGE: Special applications – Double Block and Bleed Valve

Top entry cryogenic integral DBB valve

Application: LNG regasification

3D-sectional view



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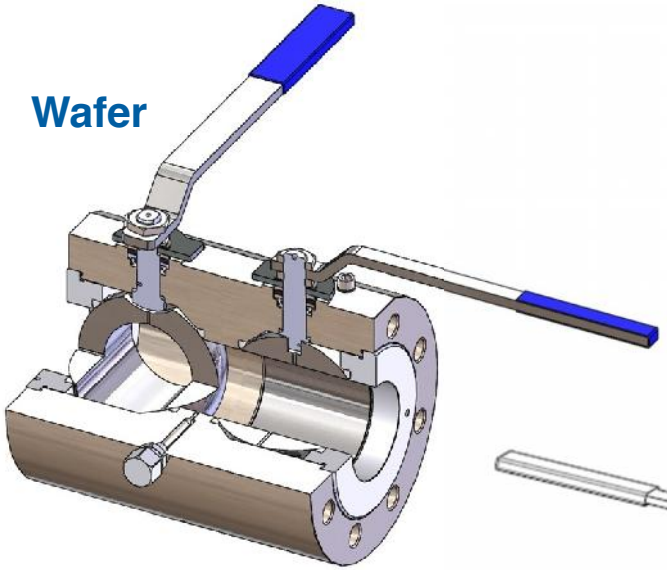
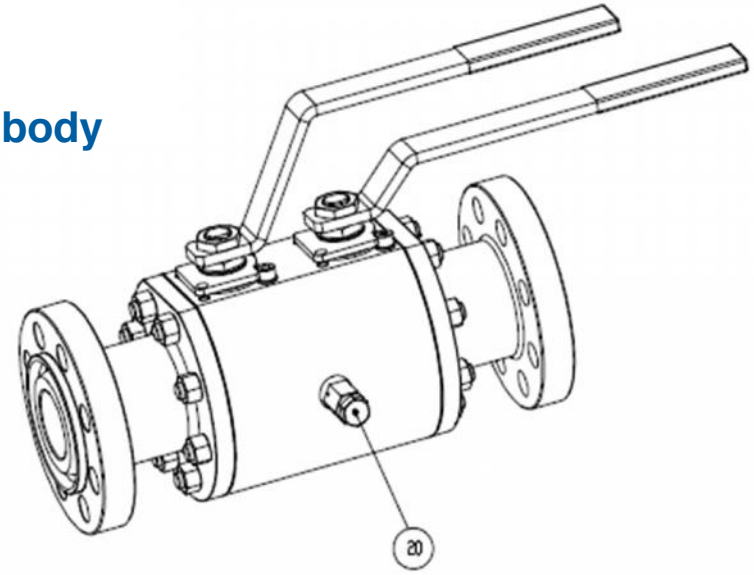
PRODUCT RANGE: Double block and bleed valves vararіants available

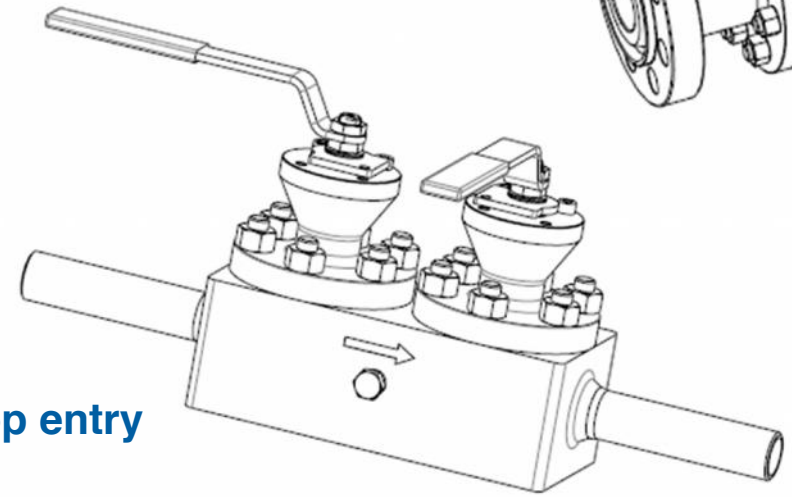
Wafer



Split body



Top entry



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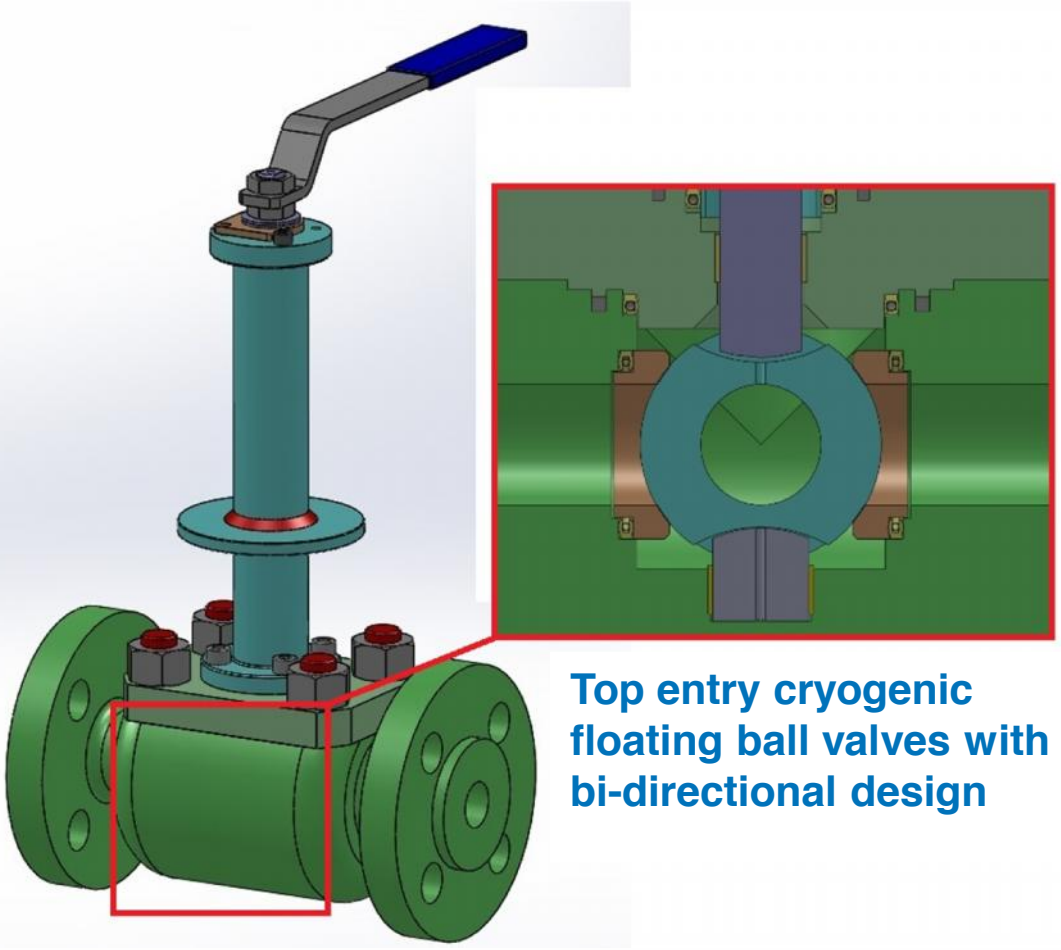
PRODUCT RANGE: Special applications

Application: LNG (for gas filling stations), Delta P 240Bar, circa 60,000 cycles/year



Top entry cryogenic floating ball valves with bi-directional design

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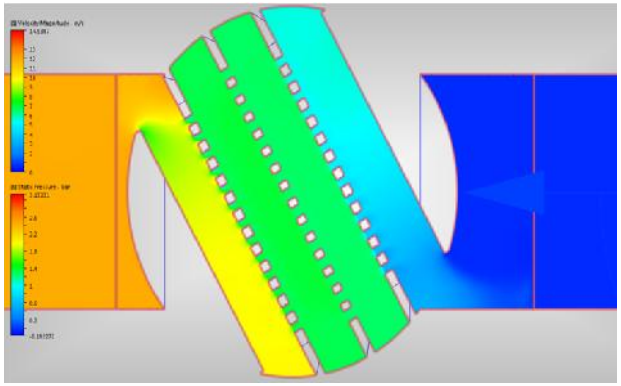
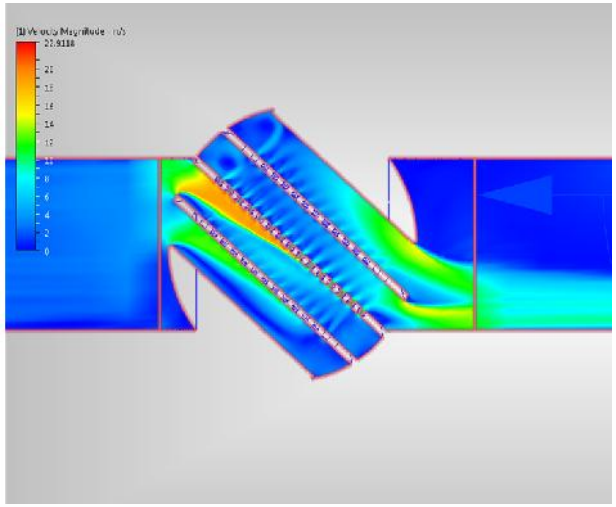
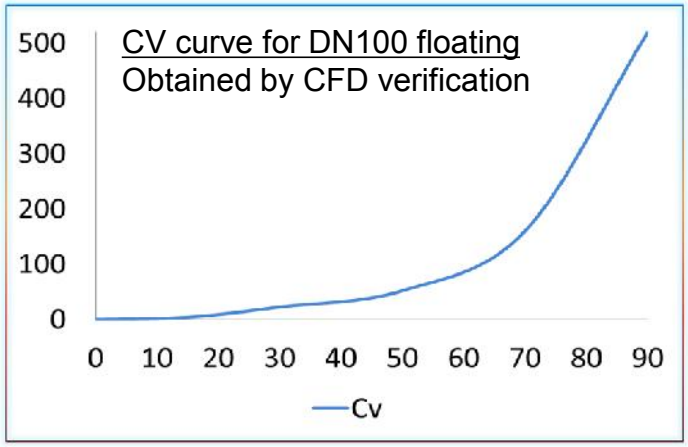
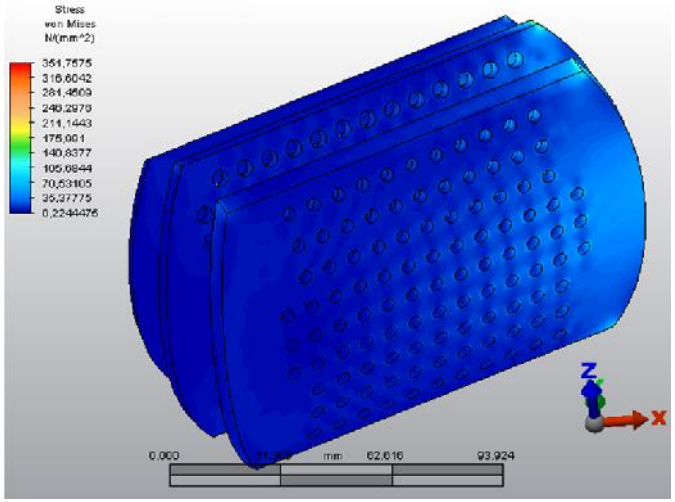
PRODUCT RANGE – Patented Control ball valves

Patented design









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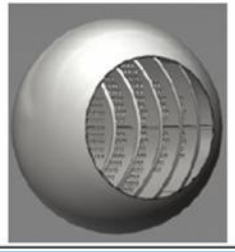
FGV0	FGV-Vball	FGV1-G	FGV1-L	FGV-2
	V90  V60  V30-60 	Up to 4NPS  Up to 14NPS  16 NPS and above 	Up to 4 NPS  Up to 14 NPS  16 NPS and above 	Tailor made cage

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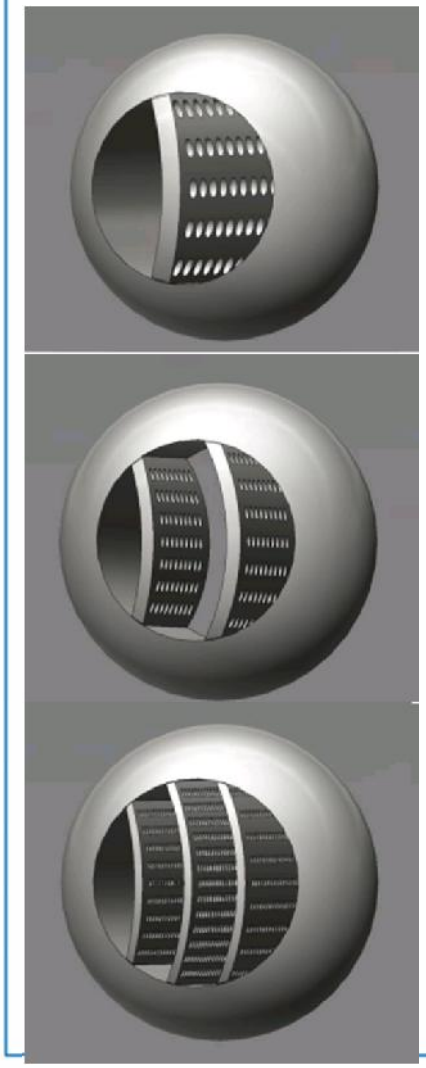
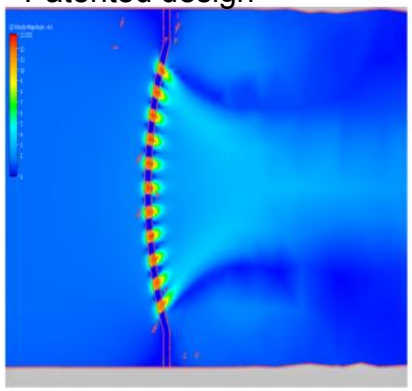
PRODUCT RANGE – Patented Control ball valves



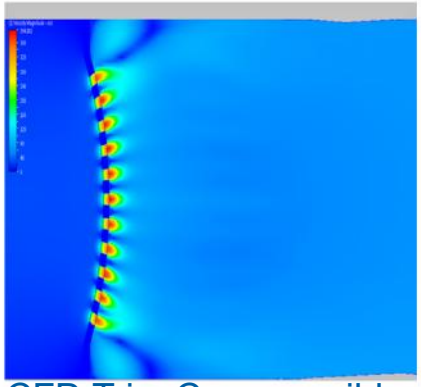
Trunnion		Floating	
Rating 150 / 300 / 600		Rating 150 / 300 (PN 16 / 40)	
2”	L & G trim available	1”	L & G trim available
3”		1 ½”	
4”		2”	
6”		3”	
8”		4”	
10”		6”	
12”			
14”			
16”			
18”			
20”			
24”			

Trims customized on process parameters are available

Patented design



CFD Trim Uncompressible Fluids (L trim)



CFD Trim Compressible Fluids (G trim)

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Patented Control ball valves: a real case

30” 150#
Trunnion
Single Seated
Metal Seated
(Patented)

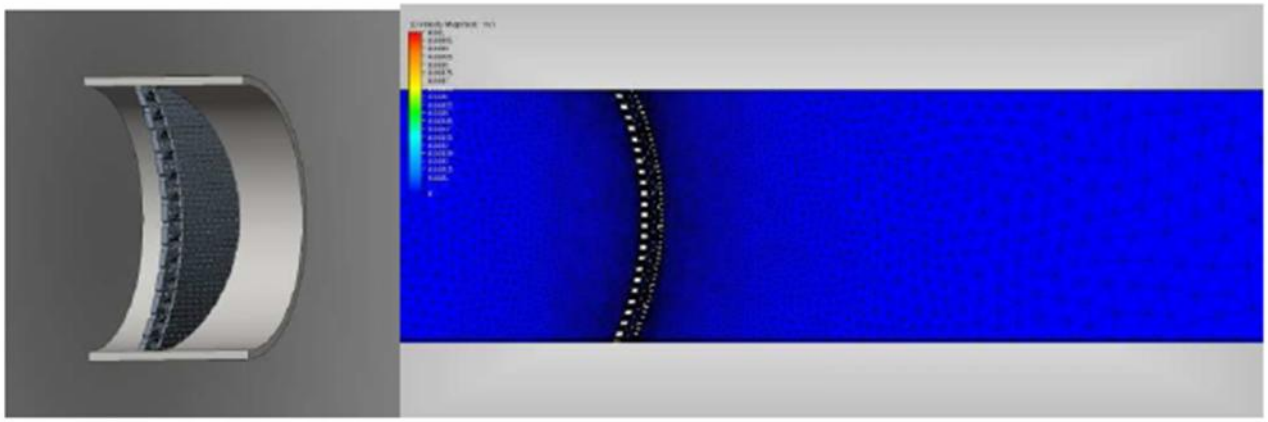

Figure 12 – Plate model and MESH at 2.2mln of elements

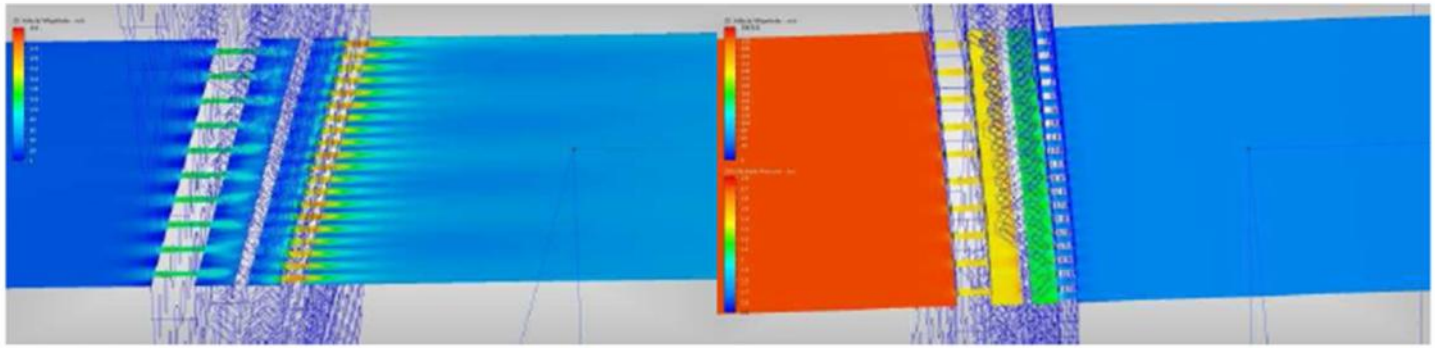

Figure 13 – Velocity and Pressure profile – punctual evaluation

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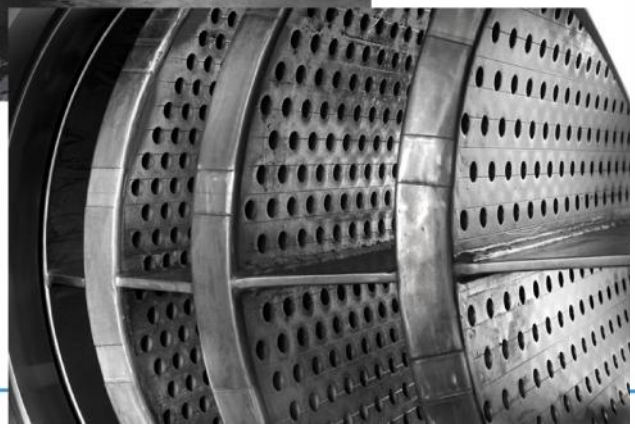
Patented Control ball valves: a real case

20” and 30” 150#
Trunnion
Single Seated
Metal Seated
(Patented)



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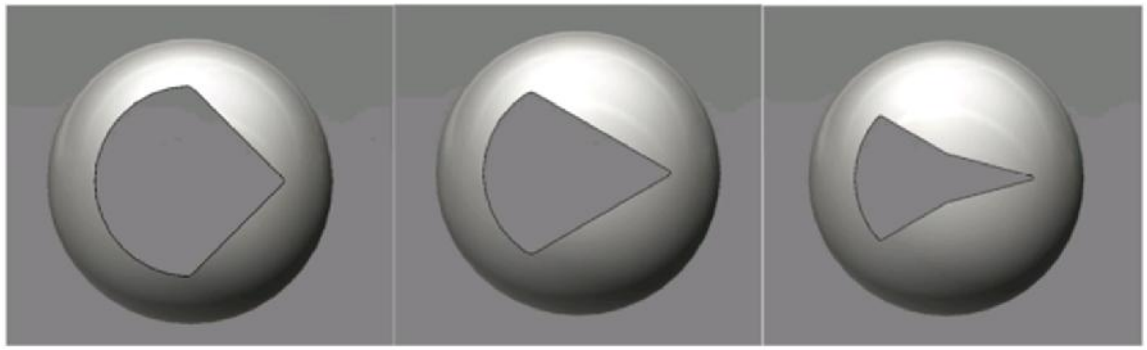
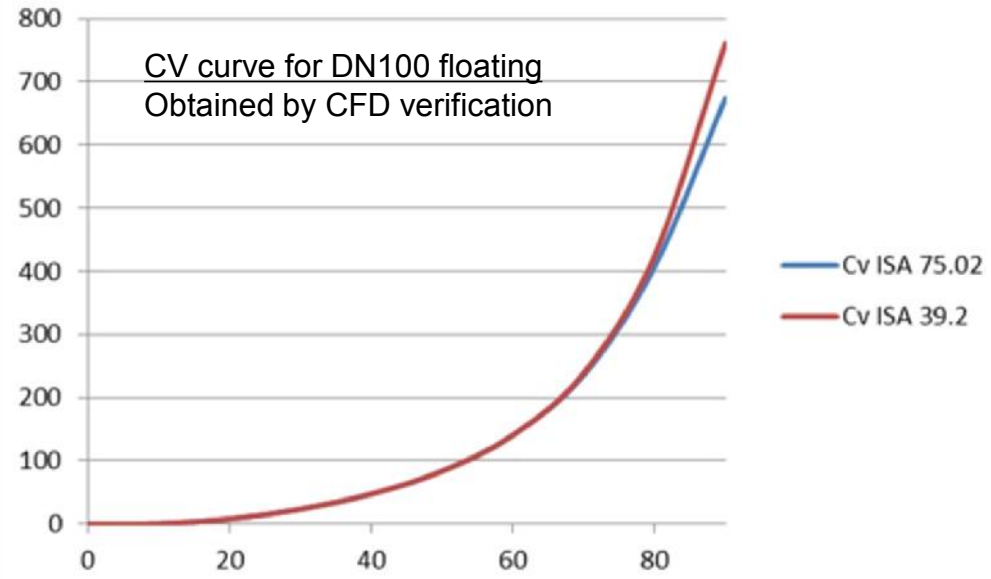
CONTROL BALL VALVES – V-ball valves

Floating	
Rating 150 / 300 (PN 16 / 40)	
	Available patterns
1”	30-60° , 60° , 90°
1 ½”	30-60° , 60° , 90°
2”	30-60° , 60° , 90°
3”	30-60° , 60° , 90°
4”	30-60° , 60° , 90°
6”	30-60° , 60° , 90°

Patterns customized on process parameters are available





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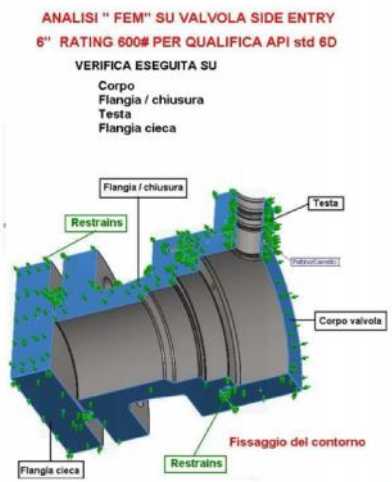
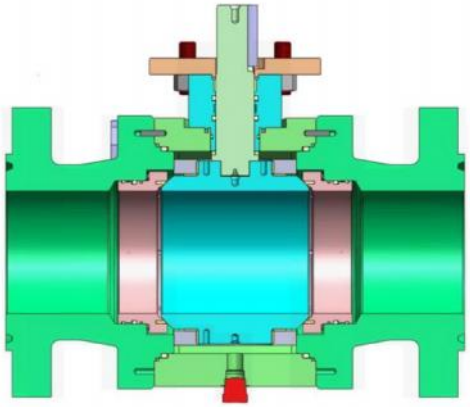
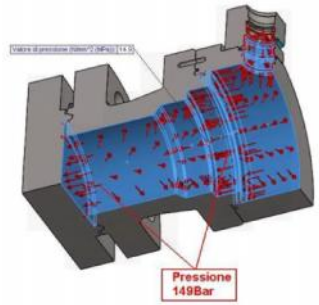
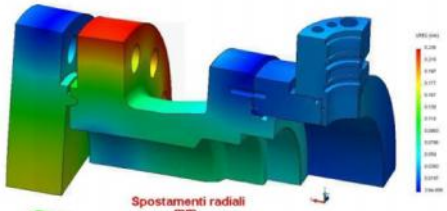
PRODUCT DEVELOPMENT: DESIGN



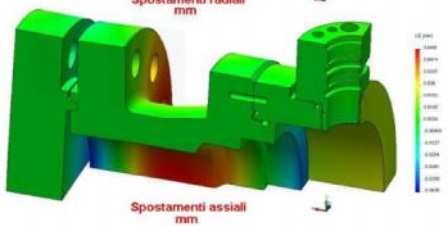




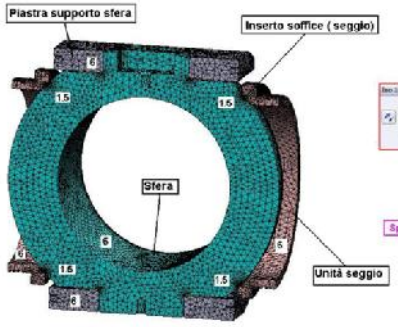
Pressione applicata all'interno della valvola



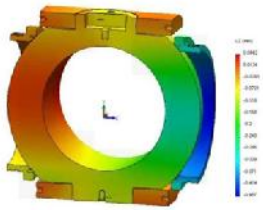
Spostamenti radiali mm



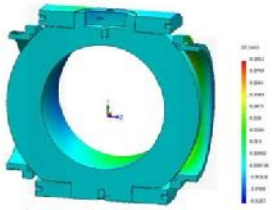
Spostamenti assiali mm



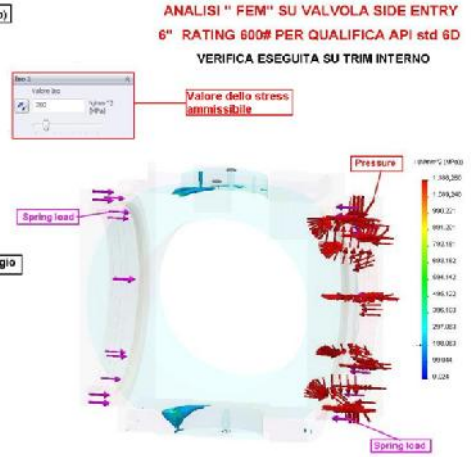
Visualizzazione della Mesh

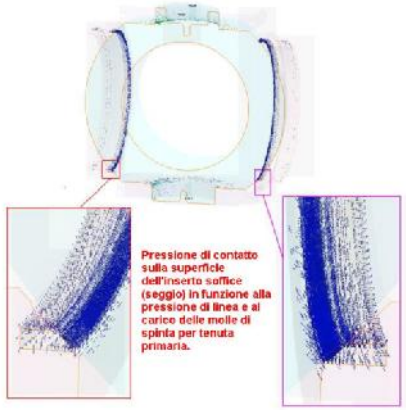


Spostamento assiale mm



Spostamento radiale mm





Pressione di contatto sulla superficie dell'inserto soffice (seggio) in funzione alla pressione di linea e al carico delle molle di spinta per tenuta primaria.

All new designs are validated by FEA…

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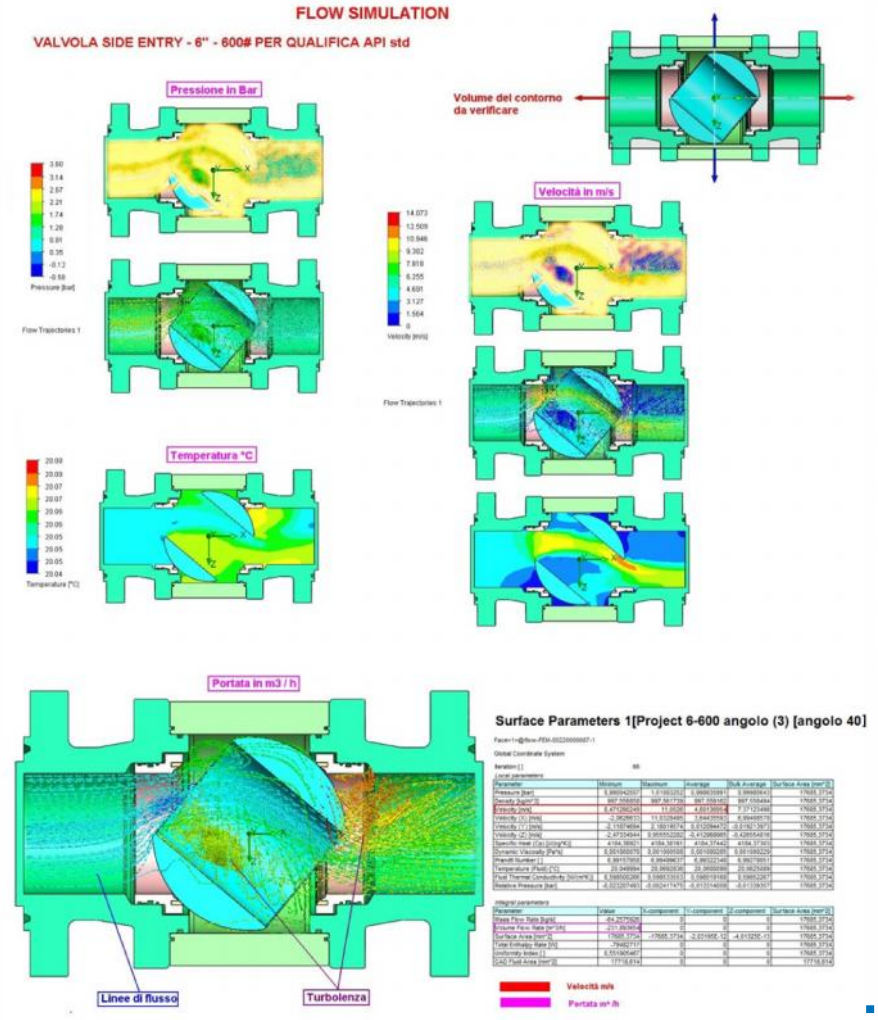
PRODUCT DEVELOPMENT: DESIGN



…and CFD

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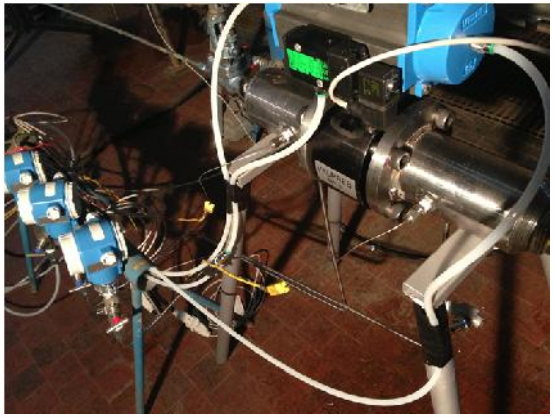
PICTURES

Valves under firesafe test

Valves under functional test in a powerplant

Valves under functional and endurance test for steam service



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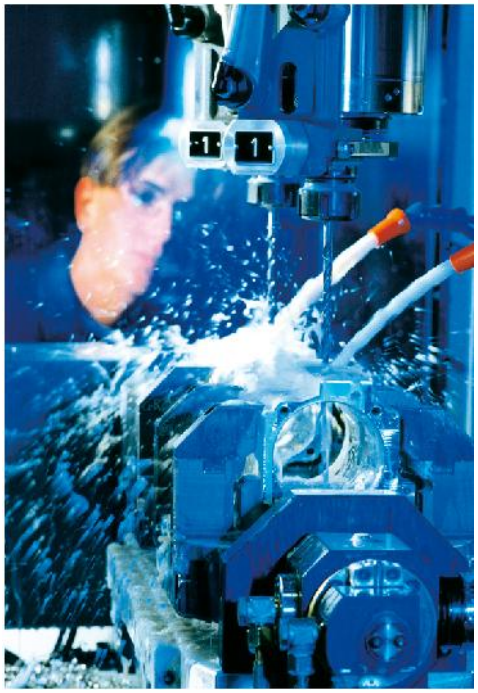
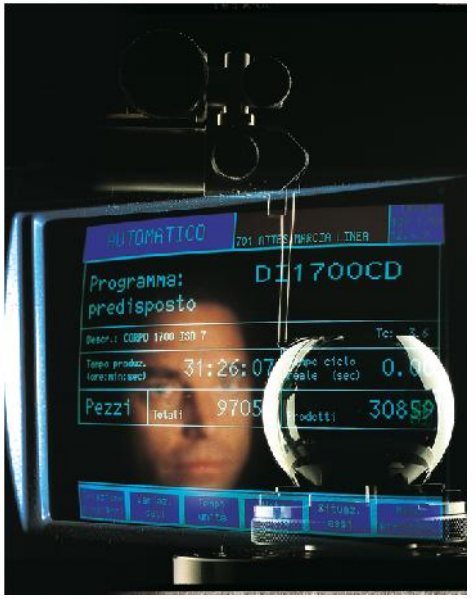
PICTURES





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THANK YOU

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