14th Floor, Centre Tower
3300 Bloor Street West
Toronto, Ontario
Canada M8X 2X4
Tel.: 416.734.3300
Fax: 416.231.1626
Toll Free: 1.877.682.8772

www.tssa.org

May 19, 2010

AUDREY RAMSEY
VALVTECHNOLOGIES INC
5904 BINGLE
HOUSTON TX 77092
US

Service Request Type.: BPV-National AB
Service Request No.: 339170
Your Reference No.: CAT C FITTING - METAL SEATED BALL VALVES - NAT'L SERV.

Dear AUDREY RAMSEY,

Please find enclosed the original response from AB, registered under the CRN No.: 0C13711.52.

As all jurisdictional fees are handled by the Technical Standards and Safety Authority (TSSA), you do not pay any jurisdictions directly. However, once your design has been successfully registered in all of the requested jurisdictions, you may receive an invoice from TSSA for any outstanding jurisdictional fees.

Should you have any questions or require further assistance, I will be happy to assist you. When contacting TSSA regarding this file, please refer to the Service Request number provided above.

Yours truly,

Colleen Ratcliff
Administrative Assistant_ BPV Engineering
Tel. : 416-734-3497
Fax : 416-231-6183
Email :CRatcliff@tssa.org


Canadian Provinces
& Territories
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PRINCE
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ISLAND
9
NEW
BRUNSWICK
7
NOVA SCOTIA
8
SASKATCHEWAN

ABSA
the pressure equipment safety authority

9410 - 20 Ave N.W.
Edmonton, Alberta, Canada T6N 0A4
Tel: (780) 437-9100 / Fax: (780) 437-7787

April 15, 2010

Tanya Francis
TECHNICAL STANDARDS & SAFETY AUTHORITY
3300 BLOOR STREET WEST
14 FLOOR CENTRE TOWER
TORONTO, ON M8X 2X4

Dear Tanya Francis,

The design submission, tracking number 2010-01415, originally received on March 10, 2010 was surveyed and accepted for registration as follows:

CRN : 0C13711.52 **Accepted on:** April 15, 2010
Reg Type : New Design **Expiry Date:** March 03, 2020
Drawing No. : CATALOGS: V1-4,NEXTECH-1,NEXTECH-2 As Noted
Fitting Desc: METAL SEATED BALL VALVES

Design registered in the name of : VALVTECHNOLOGIES INC.

The registration is conditional on your compliance with the following notes:

* *This registration is valid until the indicated expiry date only if the Manufacturer maintains a valid quality management system approved by an acceptable third-party agency until that date. Should the approval of the quality management system lapse before the expiry date indicated above, this registration shall become void.*

* *The scope of this registration covers only the valves as presented in catalogues V1-4, Nextech-1 and Nextech-2 compliant with ASME B 16.34 in entirety.*

* *The scope of this registration does not include the ERV , a category "G" relief valves.*

An invoice covering survey and registration fees will be forwarded from our Revenue Accounts.

Sincerely,

PETRUSEVSKI, LJUPCO (LOU)
Design Surveyor

Alberta
MUNICIPAL AFFAIRS

ABSA
the pressure equipment safety authority

STATUTORY DECLARATION
Registration of Fittings

In this space, show facsimile of manufacturer's logo or trademark as it will appear on the fitting.

VALVTECHNOLOGIES

I, Craig Walther,

Quality Assurance Director
(company title, e.g. vice president, plant manager, chief engineer) (must be in a position of authority)

of Valvtechnologies, Inc.
(name of manufacturer)

located at 5904 Bingle Road, Houston, Texas 77092
(plant address)

do solemnly declare that the fittings listed hereunder, which are subject to the Safety Codes Act (check one)

☒ comply with the requirements of ANSI/ASME B16.34 which specifies the dimensions, materials of construction, pressure/temperature ratings and identification marking of the fittings, or
(title of recognized North American Standard)

☐ are not covered by the provisions of a recognized North American standard and are therefore manufactured to comply with _____ as supported by the attached data which identifies the dimensions, materials of construction, pressure/temperature ratings and the basis for such ratings, and the marking of the fittings for identification.

I further declare that the manufacture of these fittings is controlled by a quality control program which has been verified by the following authority, DNV CERTIFICATION as being suitable for the manufacture of these fittings to the stated standard. The fittings covered by this declaration, for which I seek registration, are Metal Seated Ball Valves

In support of this application, the following information, calculations and/or test data are attached:

Catalog, V1-4, ERV,Nextech-1, Nextech-2

DECLARED before me at 5904 Bing road in the State of Texas

this 31st day of March (Month), 2010 (Year)

(print) Audrey Ramsey

(sign) _____ (A Commissioner for Oaths)

AUDREY RAMSEY
My Commission Expires
July 27, 2010

Craig Walther (Signature of Applicant)

For Office Use Only * ERV - NOT WITHIN THE SCOPE OF REGISTRATION

To the best of my knowledge and belief, the application meets the requirements of the Safety Codes Act and CSA Standard B51, Clause 4.2, and is accepted for registration in Category *C4

Registration Number: 0C13711.52

LJUPCO PETRUSEVSKI

(For the Administrator/Chief Inspector of Alberta)

Date Registered: APR 15 2010

Expiry Date: MAR 03 2020

The information you provide is necessary only for the administration of the programs as required by the Alberta Safety Codes Act and Regulations in the Boiler Discipline.

ABSA

SAFETY CODES ACT - PROVINCE OF ALBERTA

REGISTRATION OF FITTINGS

REGISTRATION NO. 0C13711.52

~~DWG. NO~~. or CAT. NO. VI-4, NEXTECH-1/2

TYPE OF FITTINGS METAL SEATED BALL VALVES

APR 15 2010 INITIALS

Date (AS NOTED)

LJUPCO PETRUSEVSKI
DESIGN SURVEYOR

* SEE THE ACCEPTANCE LETTER NOTES 1

THE REGISTRATION EXPIRES ON MAR 03 2020

VALVTECHNOLOGIES

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Fax +1 713 860 0499
sales@valv.com

To locate a distributor or satellite office near you, visit us online at:
www.valv.com

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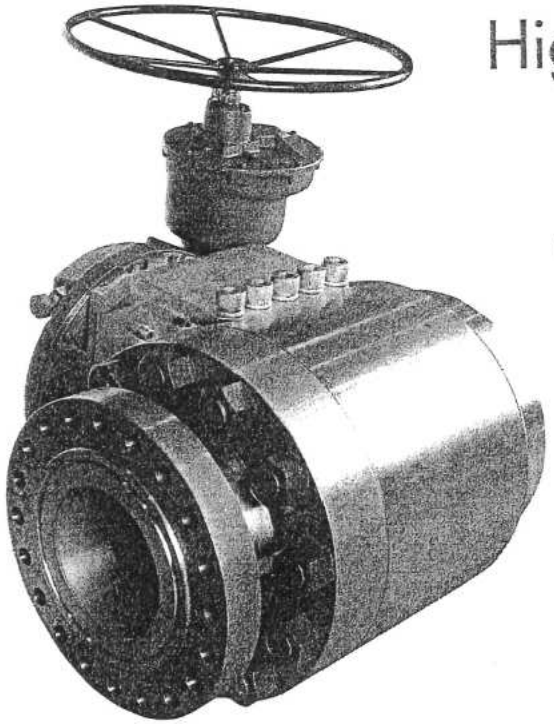
ASME Internat

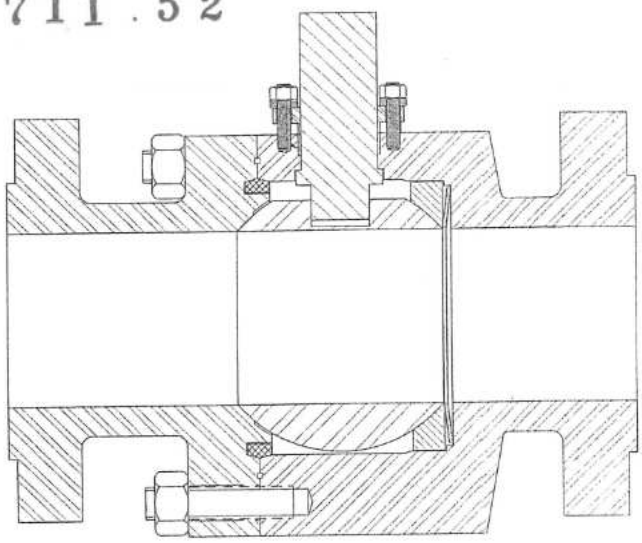
V1-4

VALV TECHNOLOGIES

High Pressure, Large Bore Valves
ANSI 900-2500
4"-36"

0C13711.52





APPLICATIONS

Mining & Minerals Processing
Concentrate Pipelines
Tailings Pipelines
Paste Backfill
Autoclaves Block

Hydrocarbons & Refining
Catalyst Handling
Emergency Shut-Down
EMIT-X Dual Seal for Zero Emissions Areas
High-Pressure Cutting Water Isolation
High-Pressure Specialty Chemicals
Hydrogen Isolation and Control
Main Steam Isolation
Polymer Isolation
Toxic Materials Handling
H-Oil
Ethylene and Ethylene Oxide
Hydrocracking
LC Fining
Polyethylene (HD and LLD)
Styrene Purification
Unifining
Ultraformer

Oil & Gas
Emergency Shut-Down
HIPPS Isolation
Inconel Clad for Sour Gas Service
Pig Launchers and Receivers

Power
Gasifiers
Steam Vents

The V1-4 category extends our core design concepts t larger diameter and higher pressure applications. This valv is designed for critical isolation applications in the Minin & Minerals Processing, Power, Hydrocarbon Refining an Processing, Oil and Gas Production and other industries. Th V1-4 is available in ANSI pressure classes 900 to 2500, i sizes 4" to 36" and in virtually any material with pressur containing parts made exclusively from forgings. Standar end connections are butt weld and flanged or valves can b custom designed to include special end connections; as wel as purge ports, cavity fillers, fugitive emission bonnets, abrasio resistant linings and many other process-specific options.

CE ISO International Organization for Standardization CERTIFIED TO ISO 9001 DNV API Spec 6D-0433 Spec 6A-0591 ASME International

Integral Seat, Zero Leakage, Severe Service Metal Seated Ball Valves

NEXTECH™-1

Severe Service — Trunnion, Metal Seated Ball Valve ANSI/ASME Class 300 - 900, 2 - 20 inch

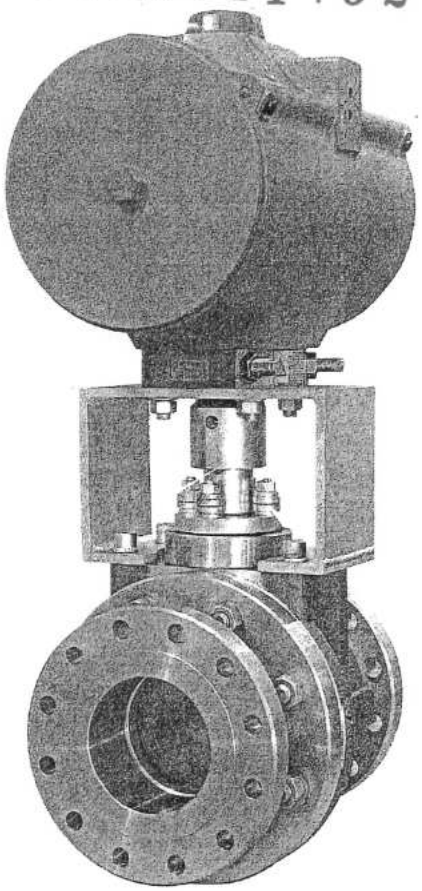
ValvTechnologies' trunnion-mounted NEXTECH™-1 is an evolution in design that incorporates many features of our seat-supported valve technology — with the additional benefits of **low operating torque** and **bi-directional** sealing. Design features include:

Applications

Block and Bleed
Critical High-Cycle Services
Ethylene Production
High Temperature Refining
Liquid Terminal Operations
Lockhopper (Catalyst) Systems
Natural Gas Processing
Oil Production
Polyethylene / Polypropylene
PSA Skids
Sootblowers
Steam

- Readily adjustable stem sealing design with a four stud, live loaded, industrial-grade (not an API) packing gland assembly
- All new designed metal-seated valve — not adapted from soft-seated designs
- Fully bi-directional with block-and-bleed capability
- Diamond mate-lapped Tungsten or Chromium Carbide RAM® coating on sealing surfaces
- Guaranteed Class V or Class VI shut-off as required
- Split-body design for safety and ease of maintenance
- Grafoil® / Inconel seals and packing to allow high temperature operation (up to 1400° F, depending on body material)

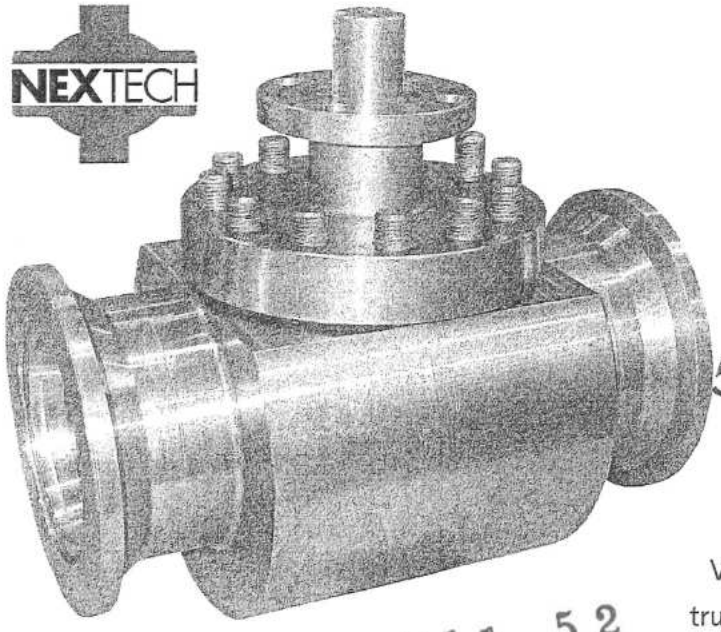
0C13711.52



VALVTECHNOLOGIES

NEXTECH-2™

VALVTECHNOLOGIES



0C13711.52

High Pressure Trunnion Mounted Ball Valves

2" - 12" API
5,000; 10,000; 15,000 API
2" - 36" ANSI
900 - 4500 ANSI

Valvtechnologies, Inc. NEXTECH-2™, high pressure trunnion-mounted valve, offers a variety of unique, zero leakage design solutions that are applied to both the API specifications and ANSI codes.

The torque for the NEXTECH-2 is much less compared to a floating ball valve design which allows for smaller actuators to be used; resulting in major cost and space savings. Additionally, the dual seat design of the NEXTECH-2 provides a positive bi-directional shut-off. This feature allows an operator to check the center tap for leakage and other particulates while the valve is in the fully open or closed position. Another exclusive element of the NEXTECH-2 is the in-line repairable design feature. If disassembly is required without removing the valve from the line, the top entry NEXTECH-2 design is the solution. The top-entry design allows an operator to easily remove the ball and seats through the bonnet while the valve is still in-line. With the wide range of design solutions the NEXTECH-2 offers, the NEXTECH-2 zero leakage, high pressure trunnion valve is the successful answer for your process needs.

APPLICATIONS

Sub-Sea Isolation,
Tested up to 12,000 feet
HIPPS System
SAGD
Blow-Down
Suction & Discharge
Pigging
High Pressure Gas Isolation
Pigging Operations
Emergency Shut-down
Acid Injection
Molecular-Sieve
Steam or Water Injection