

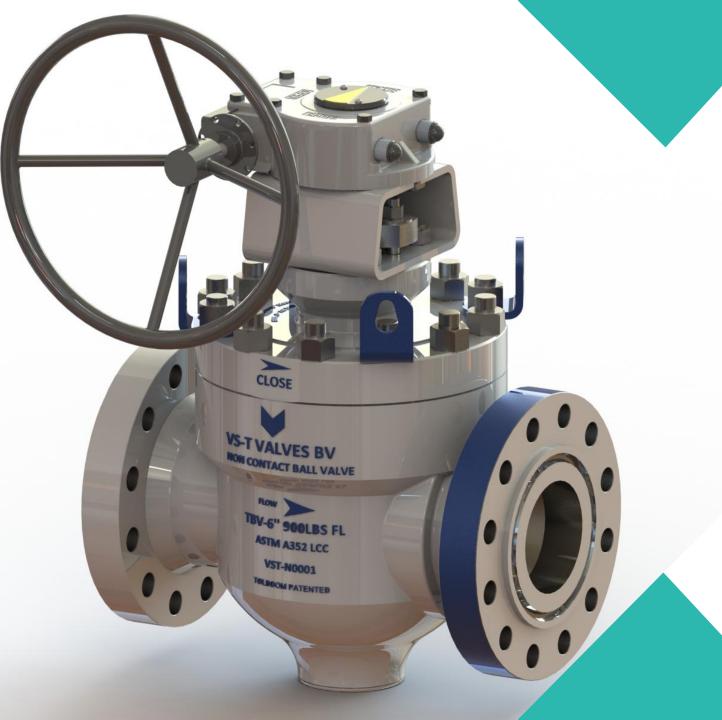


valve solutions & technology

ECO GENERATION

NON-CONTACT BALL VALVE

(TOLBOOM - PATENTED DESIGN)





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TRUE-NON-CONTACT BALL VALVE

BALL VALVE NEXT GENERATION FRICTION FREE

Size	1" ~ 32"
Trim	RB or FB (API6D)
Pressure	150# ~ 2500# (upto API10000)
Temperature	-196°C ~ 650°C
Connections	Wide choice on request
Materials	NACE MR-01-75/ISO 15156

MARKET APPLICATIONS

- Coking & De-coking process
- Hydrogen Service

VALVE

- Dehydration & Regeneration
- Sand and Slurry Application
- Molecular Sieve dehydration switches valves
- Replacement of Rising Stem Ball Valve / Other valves
- · Heat transfer fluids/hot oil or Gas
- Power Generation
- Emergency Shutdown (ESD)

Non-Contact Ball Valves Features



World 1st quartern turn Non Contact friction free.

Eco Generation No Rubbing Between Sealing Surfaces During Turning and Sealing The guarter-turn eccentric force convey to tilt-and-turn action eliminates seal abrasion, which is the major cause of seat wear in conventional ball, butterfly, gate and plug valves.



Single-seat Design (DIB-1)

The single, stationary seat in the NCB valve seals in both directions and avoids the problems of trapped pressure between seals.



Self-Flushing

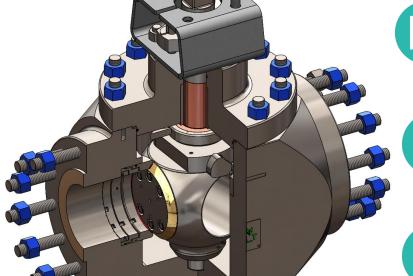
Self-cleaning Tilting @ last 10degree the core away from the seat before rotation causes immediate flow around 360 degrees of the core face. Product flow flushes any foreign material away from the seat without localized, high-velocity erosive flow.



Long life

Non contact ball valves replace troublesome ball valves, gate valves, globe valves and plug valves. The VS-T design has performance advantages that reduce plant outage and reduce the cost of ownership.







Low-torque & Low energy Consumption Ultra low torque valves turn easily because eccentric offset design to seal rubbing /friction is eliminated.



Wear-resistant Hard Facing on Core The core face is a solid stellite-6, smooth material that will endure difficult service. without loss of sealing integrity.



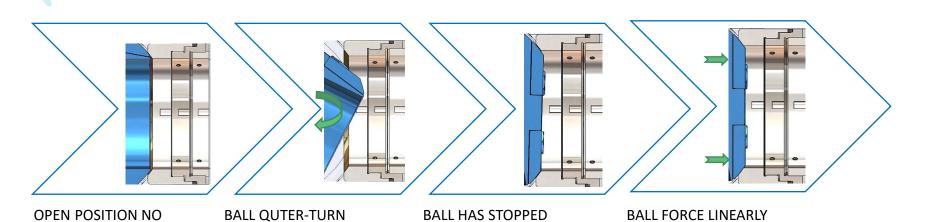
Top-entry Design - Easy Maintenance In-line inspection and repair, after system depressurizing, simplifies maintenance.

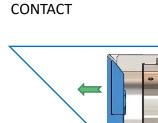


NON-CONTACT SEQUENCE OF OPERATION



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NO CONTACT



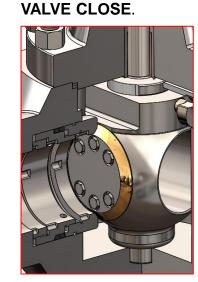


TURNING, NO CONTACT

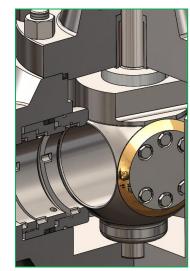
BALL TURN TO OPEN POSTION



FOREWARDS, (NO FRICTION)



VALVE OPEN.



BALL MOVES LINEARLY BACK FROM THE SEAT, (NO FRICTION)

DIMENSIONS

VS_T

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ANSI Class 150

ANSI Class 300

ANSI Class 600

ANSI Class 900

ANSI Class 1500

Long pattern (API6D) RF

254

369

547

705

1131

FTF Long pattern (API6D) RTJ

NSI Class	2500
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SIZE	FTF Long pattern (API6D) RF	WEIGHT Long pattern (API6D)	SIZE	FTF Long pattern (API6D) RF	WEIGHT Long pattern (API6D)	SIZE	FTF Long pattern (API6D) RF	WEIGHT Long pattern (API6D)
1	216*	28	1	216*	35	1	216	39
2	216	35	11/2	242*	42	2	216	42
3	204	50	2	242*	42	3	204	90
4	292	95	3	283	58	4	292	150
6	356	185	4	305	115	6	356	260
8	495	268	6	404	192	8	495	545
10	622	480	8	502	320	10	622	940
12	698	732	10	674	497	12	698	1360
14	787	958	12	762	890	14	787	1690
16	864	1360	14	826	1260	16	864	1920
18	978	1800	16	902	1590	18	978	2200
20	978	2200	18	915	1870	20	978	3300

SIZE	FTF Long pattern (API6D) RF	FTF Long pattern (API6D) RTJ	WEIGHT Long pattern (API6D)	SIZE	
1	254	254	45	1	
11/2	305	305	55	11/2	
2	369	372	70	2	
3	381	385	112	3	
4	458	461	125	4	
6	610	613	375	6	
8	737	740	660	8	
10	839	842	1120	10	
12	966	969	1650	12	
14	1029	1039	1960		
16	1131	1140	3200		

WEIGHT Long pattern (API6D)	SIZE	FTF Long pattern (API6D) RTJ	WEIGHT Long pattern (API6D)
45	1	451	55
58	11/2	454	68
85	2	454	92
135	3	585	225
250	4	683	320
660	6	928	880
850	8	1039	1380
1450	10	1293	1620
1850			



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American Petroleum Institute



Certificate of Authority to use the Official API Monogram

License Number: 6D-1876 OR

The American Petroleum Institute hereby grants to

VS-T VALVES BV
Gewenten 47
Roosendaal, Noord-Brabant
The Netherlands

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-6D and in accordance with the provisions of the License Agreement.

In all cases where the Official API Monogram is applied, the API Monogram shall be used in conjunction with this certificate number: 6D-1876

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: Ball Valves

QMS Exclusions: No Exclusions Identified as Applicable

Effective Date: MAY 8, 2022 Expiration Date: MAY 8, 2025

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

Cenchal Lidday

Senior Vice President of Global Industry Services



V

MANAGEMENT SYSTEM CERTIFICATE

Certificate no.: 288655-2019-AQ-NLD-Rv Initial certification

valid: 16 September 2021 – 15 September 2024

This is to certify that the management system of

VS&T B.V.

Gewenten 47, 4704 RE Roosendaal, Netherlands

and the sites as mentioned in the appendix accompanying this certificate

has been found to conform to the Quality Management System standard:

ISO 9001:2015

This certificate is valid for the following scope:

Overhaul, repair, modification, maintenance and testing of all standard valves and safety valves for industrial purposes.

1864

e and date:





For the issuing office:
DNV - Business Assurance
Zwoisawag 1, 2994 I.B. Barandracht Natherland



