



valve
solutions &
technology



CONTROL CHOKE VALVE

Versatile in Erosion proof control technology

Low power actuator $\leq 60W$ at 24V. Ideally for UPS battery operation or Solar powered system

AUTOMATED CHOKER VALVE

CAVITATION FREE VALVE

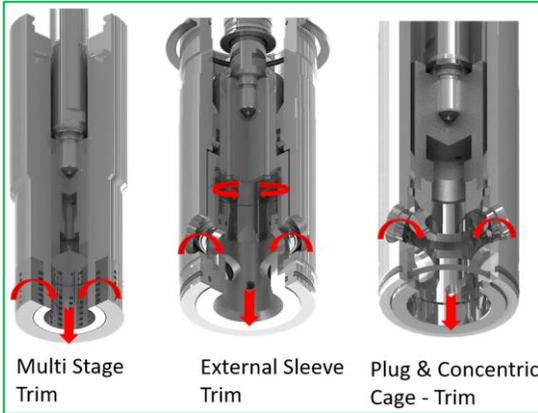
Size	1" ~ 8" (12")
Trim	32/64" to 512/64"
Pressure	Pressure rating upto 20000psi
Temperature	-101°C ~ 345°C (L + Y) + PSL3G, PR2
Connections	RTJ, BW, HUB,
Materials	NACE MR-01-75/ISO 15156

MARKET APPLICATION

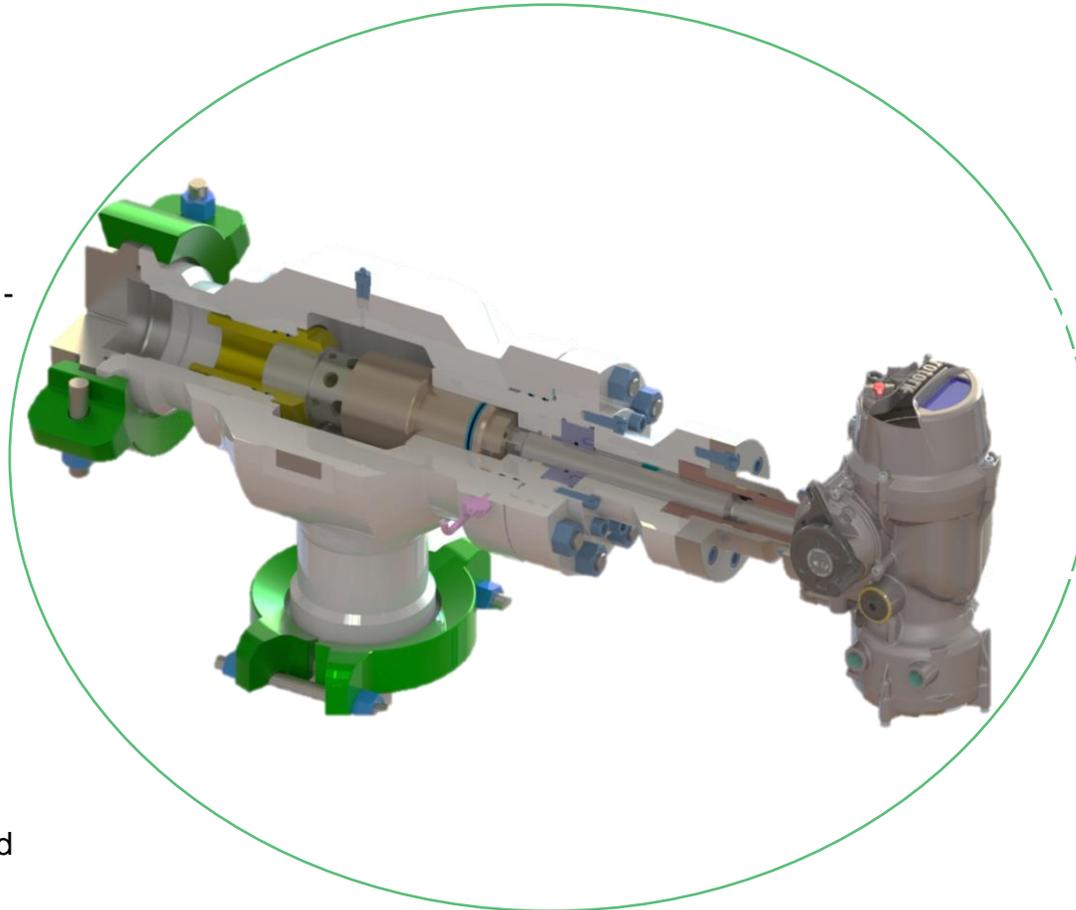
- Choking condition valve
- High Pressure Drops
- Artificial Lift
- Slug Catcher
- Water to refined products High gas-oil multiphase fluids
- Natural gas (with contaminants - particle)
- Production
- Water Injection
- Gas Injection and Gas Lift
- Methanol injection
- High pressure drops



CHOKE Valves Features



World best improved flow process
Avoids vibration and reduces erosion by a factor 5.
 This significantly maximizes production availability



 **Linear Stem**
 Less friction, smaller / standard actuator -
 Multi turn avoids fugitive emissions, fast
 stroking

 **Advanced body design with bonnet**
 Metal seal construction.
 Faster fabrication, Trim remove, In-line
 maintenance can be possible.

 **Long life**
 Automated Choke valves replace
 troublesome needle or Plug type 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 / thrust valves moves
 easily because pressure balance design to
 zero back force.

 **Cavitation proof Hard Core TRIM**
 Wear-resistant Hard Solid Tungsten
 carbide trim (5CB), super fine grain
 material that will endure difficult service,
 without loss of sealing integrity.

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



ADDITION FEATURES

VS-T control choke design incorporates hydrodynamic energy dissipation to reduce erosion problems while ensuring positive flow control.

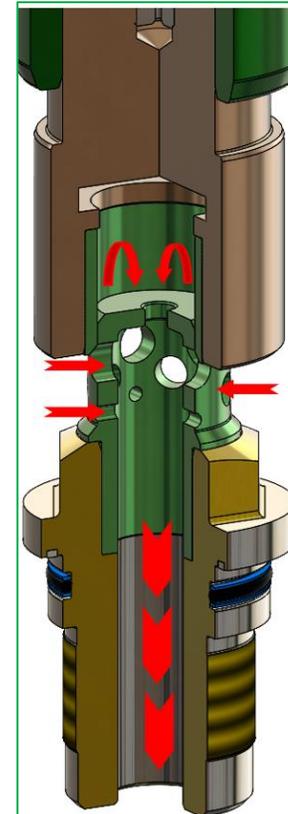
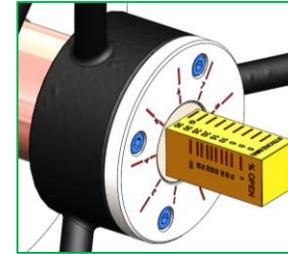
During application, the flow enters the choke inlet and circulates around the annulus gallery between body and the flow cage. The Flow cage has an even distribution of ports that determine the high flow capacity.

The high-velocity fluid streams produced by the flow collide in centre of the hard-core Tungsten carbide. Since the fluid streams impinge directly with each other, this enables the most erosive energy to be dissipated. This in turn minimizes the risk of erosion damage to downstream parts.

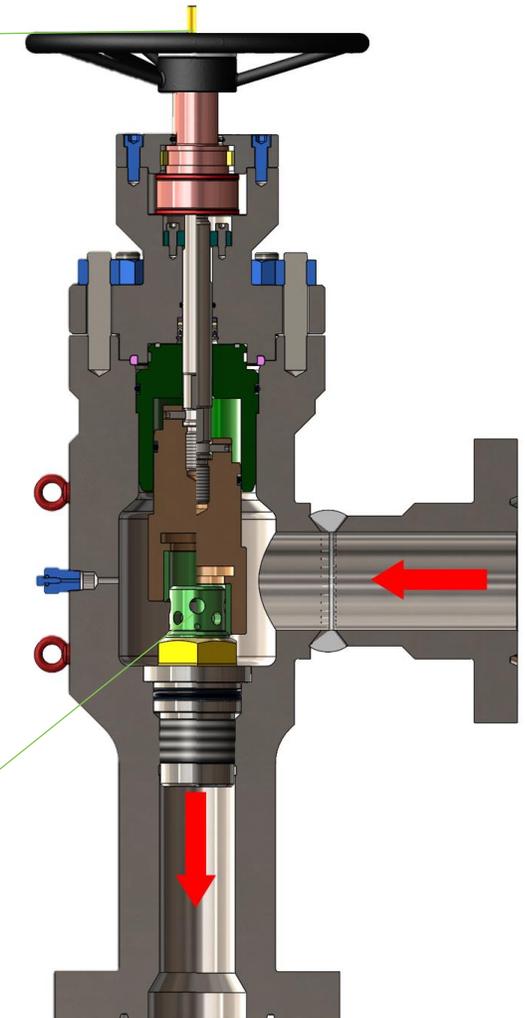
VS-T control choke designed to provide precise flow control throughout their entire operation life, with a well-proven track record.

CHZ-CONTROL CHOKE FEATURES

1. Tungsten carbide core parts. (92 HRC)
2. Solid tungsten carbide cage/seat provides excellent wear resistance against sand/slurry erosive conditions.
3. Metal body-to-bonnet gasket for safe pressure containment.
4. Reverse angle external sleeve improves flow dynamics recovery factor.
5. Self-flushing ,pressure balance ports reduce stem loads and actuator output torque/thrust.
6. Micrometre indicator to adjust the flow/pressure.
7. Pressure-balanced seals are advance bi-direction trim arrangement, reducing operating force and enabling great design life.



VALVE OPEN/CLOSE.





DIMENSIONS



valve
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ANSI Class 900

ANSI Class 1500

ANSI Class 2500

API5000

API10000

API15000

SIZE	FTF C TO IN / OUT	WEIGHT (KG)
2	227	60
3	292	85
4	341	135
6	464	250
8	519	570
10	646	850
12	722	1350
14	808	2150
16	900	2350

SIZE	FTF C TO IN / OUT	WEIGHT (KG)
2	227	71
3	292	102
4	341	160
6	464	353
8	519	820
10	646	1150
12	722	1470
14	808	2560
16	900	2950

SIZE	FTF C TO IN / OUT	WEIGHT (KG)
2	227	71
3	292	102
4	341	160
6	464	353
8	519	820
10	646	1150
12	722	1470

SIZE	FTF C TO IN / OUT	WEIGHT (KG)
2-1/16	227	60
2-9/16	257	82
3-1/8	292	130
4-1/16	341	261
7-1/16	464	465
9	519	521
11	646	647
13-5/8	722	2100
16-3/4	900	2950

SIZE	FTF C TO IN / OUT	WEIGHT (KG)
2-1/16	227	71
2-9/16	257	92
3-1/16	292	165
4-1/16	341	335
7-1/16	464	945
9	519	1980
11	646	2342

SIZE	FTF C TO IN / OUT	WEIGHT (KG)
2-1/16	227	128
2-9/16	257	185
3-1/16	292	331
4-1/16	341	633
7-1/16	464	1910

QUALITY ASSURANCE



**American
Petroleum
Institute**



2018-151

Certificate of Authority to use the Official API Monogram

License Number: 6A-2115 **ORIGINAL**

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-6A** 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: **6A-2115**

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: Gate, Ball, Plug Valves, Check Valves at PSL 1, PSL 2, PSL 3

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.

Anchal Liddar
Senior Vice President of Global Industry Services



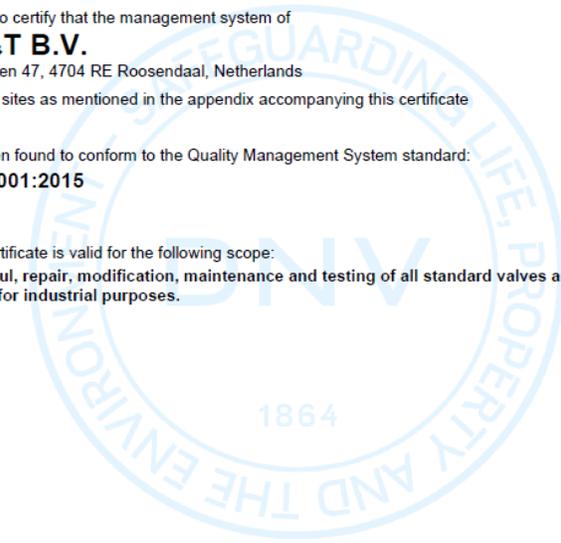
MANAGEMENT SYSTEM CERTIFICATE

Certificate no.: 288655-2019-AQ-NLD-RvA Initial certification date: 01 November 2016 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.



Place and date:
Barendrecht, 12 October 2021

For the issuing office:
DNV - Business Assurance
Zwolseweg 1, 2994 LB Barendrecht, Netherlands



J.H.C.N. van Oijstwijk
Management Representative

