

VELAN TRAP CONNECTOR STATION (VTCS)

The Velan trap connector station (VTCS) is available in cast carbon steel or stainless steel, ASME Class 600 compact trap and valve station designed to ASME B16.34.

It incorporates inlet and outlet isolation valves with an API 602 bolted bonnet outside screw and yoke (OS&Y) globe valve with cobalt chrome (CoCr) alloy trim, integral strainer, blowdown valve (BDV) and test valve for safe de-pressurization of the unit before maintenance or trap changeout.

The VTCS can be fitted with all universal connector steam traps regardless of manufacturer.



EXCLUSIVE DESIGN FEATURES

Single Block

Two isolation valves, a blow down valve, a test valve and a strainer are combined in one unit as a compact assembly, which results in easy installation. The integral strainer can be maintained in-line.

Universal Mounting

The VTCS is designed to be used with all universal swivel connector steam traps. The steam trap is attached to the VTCS by means of two hexagon cap screws, which simplifies the installation and removal of the steam trap.

Robust Construction

The VTCS is designed to meet the ASME B16.34 Class 600 rating. The design is compact and sturdy and suitable for both high-pressure and high-temperature steam service.

Globe-Type Isolation Valves

Globe-type isolation valves are based on Velan's API 602 design, which has been proven over decades of service.

Cobalt Chrome (CoCr) Trim

The solid CoCr alloy disc ensures long service life, resistance to wear, galling and corrosion.

Packing Rings

Packing rings are pre-compressed to 4000 psi to ensure equal stress distribution and effectiveness of all rings. Each packing ring is individually inserted and compressed for better tightness.

Body-Bonnet Joint Fully Encased Spiral Wound Gasket

The fully enclosed gasket joint allows better compression, eliminating the possibility of the stainless steel spiral wound metal unwinding in normal and vacuum service.

Body Guided Disc

The top and bottom guided discs ensure perfect seat and disc alignment regardless of side thrust caused by high velocity flow. This prevents the stem from scoring and galling, and provides longer life to the disc seal and body.

In-Line Servicing

Stem, bonnet and disc assembly can be easily removed and replaced on both valves via access through the bolted bonnet cover.

Safer and Tighter Stem Seal

- Stem is hardened and ground.
- Sturdy full-length threaded, and corrosion-resistant bolts provide high packing stress.
- Positive backseat: The stem is beveled against the integral backseat.

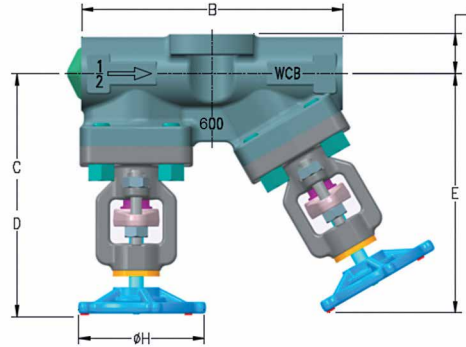
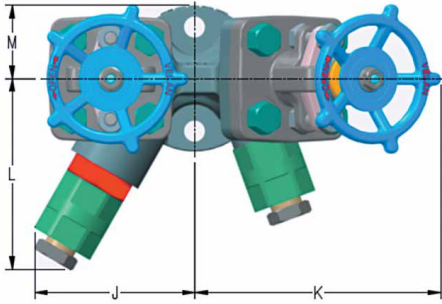
All valves are hydro tested for hydro shell and seat in accordance with API 598 & ASME B16.34 specifications.

Velan. Quality that lasts.

VELAN

DIMENSIONS AND WEIGHT

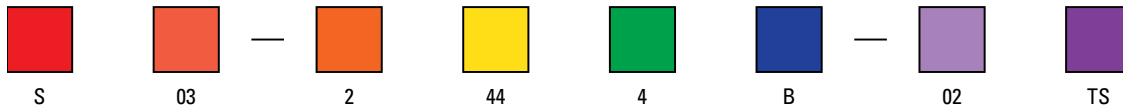
SIZE NPS DN	B End to end	C Center to top, shut	D Center to top, open angular	F Center to bottom	H Handwheel	J Center to BDV end	K Center to hand- wheel end	L Center to BDV bottom	M Center to flange, top	WEIGHT lb kg
1/2 15	5.625	5.2	5.5	0.85	2.5	2.8	4.9	3.75	1.4	8.5
3/4 20	143	132	140	22	64	70	124	95	36	3.9



Reference Standard	
Design	B16.34 / API 602
Pressure-Temperature Rating	ASME B16.34
End to End	Manufacturer Standard
Threaded Ends	ASME B16.11 3000#
Test Method	API 598

Test Pressure		psig	barg
Shell & Backseat	Hydrostatic	2225	154
Seat	Hydrostatic	1650	113
Seat	Air	80	6

HOW TO ORDER



Above example: Velan VTCS threaded NPT with 1/2" connection, 600# pressure rating, left to right flow direction, WCB body material and API 5 Trim.

Type of Connection Inlet/Outlet		Connection Size		Pressure Rating		Flow Direction		Body		Bonnet Style		Body Material	
S	Thread NPT	03	1/2"	0	150	44	Left to Right	4	Vertical	B	Bolted Bonnet (Forged)	02	WCB
W	SW	04	3/4"	1	300	46	Right to Left					13	CF8M
C	Combination (NPTxSW)			2	600							31	LCC
F	Flanged B16.5 (B16.47 Series A)												
Trim													
CODE		WEDGE DISC SURFACE		SEAT SURFACE		STEM		API NUMBER					
TS		CoCr Alloy ⁽¹⁾		CoCr Alloy ⁽¹⁾		13CR(410)		5					
TX		410		410		410		1					

¹CoCr Alloy (Grade 6 or 21) based on material or application at manufacturers option.

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