

Voegt



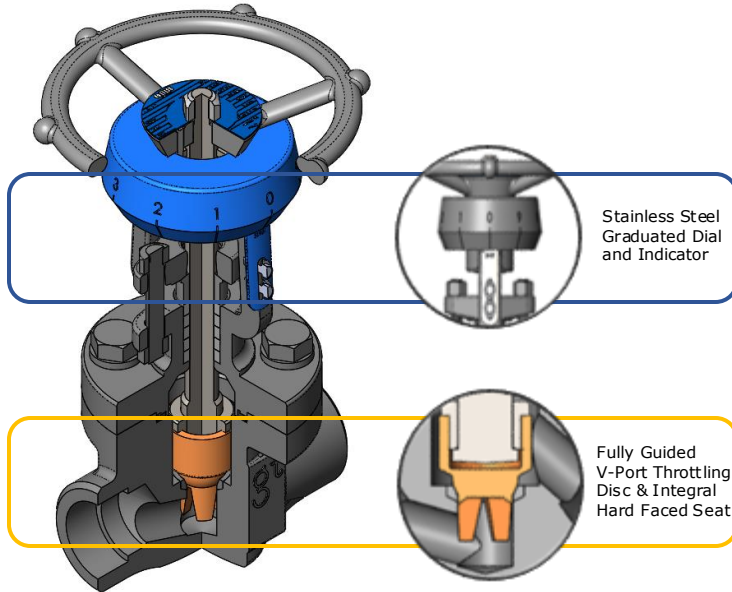
Flow Control Valves

Series
12443
15443
22641



Forged Steel Flow Control Valves

- *Accurate Flow Regulation*
- *Positive Shutoff*



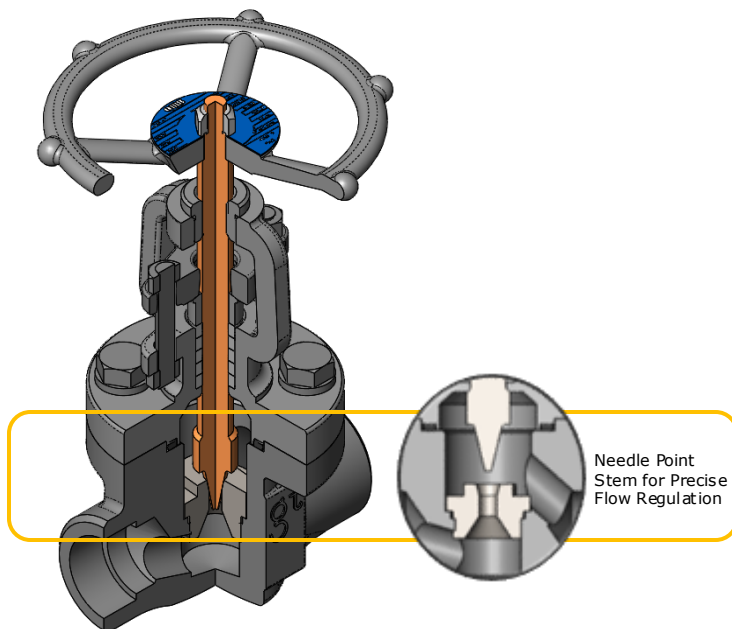
Serving Worldwide Applications in Steam, Boilers, Power, Refining and Related Industries

Vogt Valves **12443** V-Port valve is particularly suited for "Continuous Blowdown" applications in steam systems and power plants and "Speed Control" applications in hydraulic systems. The design of the valve ensures positive flow regulation while still providing the shutoff capability of a globe valve.

The V-Port flow control valves have specially designed discs for combination shutoff and throttling service. The shutoff and throttling surfaces are completely removed from each other in such a manner to ensure that consistent flow rates are achieved during operation and that the shutoff seating surface is not subjected to the high velocities that occur at the throttling surface.

The discs are designed with an extended cylinder, which has V-shaped slots. As the disc is raised, the flow area at the V-shaped slots is increased, achieving regulation. The extended V-Port disc legs are fully guided in the valve body during full lift, ensuring minimum vibration of the disc.

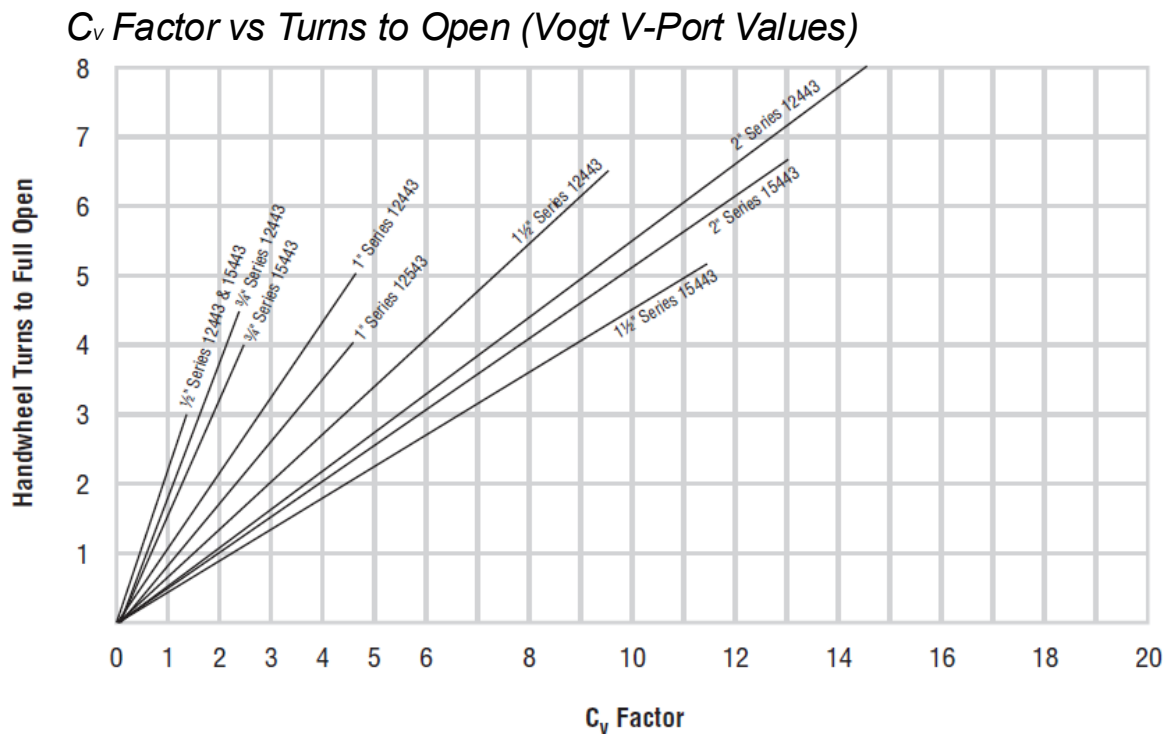
Flow area generation at the disc throttling and seating surfaces are controlled to ensure that a linear flow characteristic is achieved. Flow is directly proportional to the valve lift for a constant pressure drop. A stainless-steel dial and indicator permit the operator to accurately regulate and duplicate the flow to a desired volume.



Vogt's **22461** Needle-point Stem valve is specifically designed for those applications requiring flow regulation in the extreme low CV range. A linear flow characteristic is not achieved with this valve design but repeatability and close regulation is assured. The solid stem design assures that the flow geometry is maintained at any valve setting and duplication can be achieved even at high pressure drops. This valve can be provided with a dial and indicator if required.



Flow Regulation: Flow area generation at the disc throttling and seating surfaces are controlled to ensure that a linear flow characteristic is achieved. Flow is directly proportional to the valve lift for a constant pressure drop. A stainless-steel dial and indicator permit the operator to accurately regulate and duplicate the flow to a desired volume.



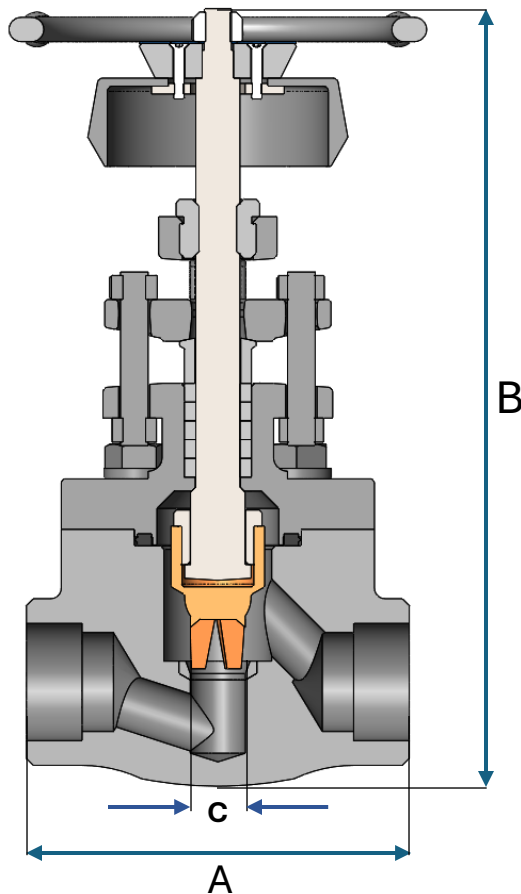
NOTE: C_v Factors at intermediate-to-full opening range, shown in the accompanying graph, are valid for all liquids having viscosity near that of water at 60°F and specific gravity of 1.

Table 1: Pressure/Temperature Ratings

Service Temperature (F°)	-20 to 100	200	300	400	500	600	650	700	750	800	850	900	950	1000
Class 800														
Carbon Steel A105 ^{(1) (2)}	1975	1810	1745	1690	1610	1515	1465	1415	1350	1100	850	615	365	225
Class 1500														
Carbon Steel A105 ^{(1) (2)}	3705	3395	3270	3170	3015	2840	2745	2655	2535	2055	1595	1150	685	430

⁽¹⁾ Ratings are in accordance with procedures in ASME B16.34, Standard Class.

⁽²⁾ Permissible but not recommended for prolonged use above 800°F.



Series 12443: Class 800
Series 15443: Class 1500

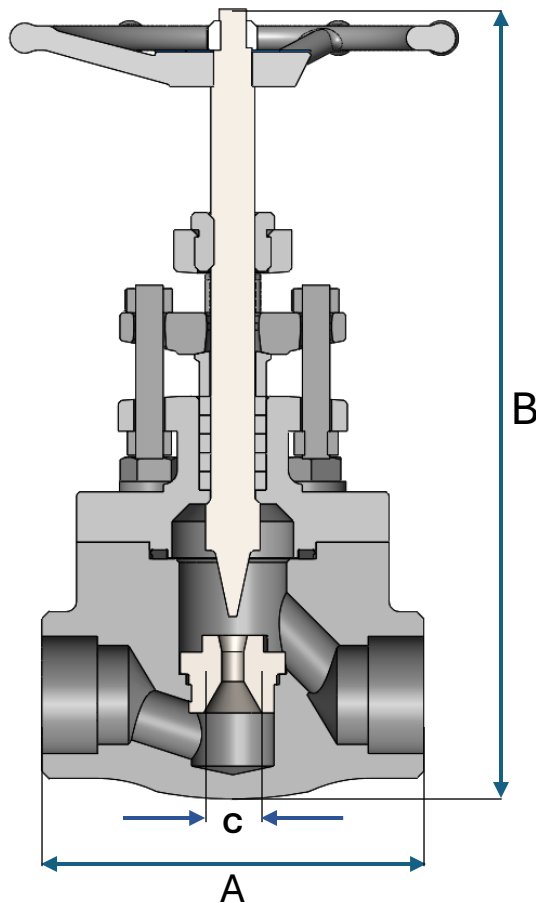
KEY FEATURES:

- Loose V-Port Disc
- Stainless Steel Dial and Indicator
- Meets API602 & ASME B16.34
- API 624 Low Fugitive Emission Packing
- Round Bolted Bonnet
- Fully Contained Spiral-Wound Gasket
- Outside Screw & Yoke,
- Bolted Gland
- Integral Hard-Faced Seat

Pressure Class	Series Number		Material		Valve Size	Weight (lb.)	A	B	C	Cv Factor	Turn to Full Open (approx.)
	Threaded	Socket Weld	Body	Trim			End to End (in.)	Center to Top (open) (in.)	Seat Diam. (in.)		
Class 800 1975 psi @100F	12443	SW12443	Carbon Steel A105	13%Cr. Integral Hard Faced Seat	1/2	5.14	3.75	6.81	0.38	1.46	3
					3/4	5.39	4.00	6.81	0.44	2.38	4 1/2
					1	9.5	4.62	8.44	0.62	4.54	5
					1.1/2	19	6.25	10.38	0.94	9.65	6 1/2
					2	31.4	7.75	10.88	1.19	14.6	8
Class 1500 3075 psi @100F	15443	SW15443	Carbon Steel A105	13%Cr. Integral Hard Faced Seat	1/2	10.8	4.50	7.88	0.44	1.46	3
					3/4	10.4	4.50	7.88	0.44	2.38	4 1/2
					1	21.5	6.25	10.12	0.62	4.54	5
					1.1/2	35.5	7.75	11.00	0.94	11.50	5.1/4
					2	62.8	9.00	13.31	1.03	13.00	6.1/2

Cv factors are for Vogt standard 4 V-port disc.
Special flow control valves having Cv factors less than 1 are available upon request

Series 22461: Class 800



KEY FEATURES:

- Needle-Point Stem
- Meets API602 & ASME B16.34
- API 624 Low Fugitive Emission Packing
- Round Bolted Bonnet
- Fully Contained Spiral-Wound Gasket
- Outside Screw & Yoke,
- Bolted Gland
- Renewable Hard-Faced Seat

Pressure Class	Series Number		Material		Valve Size	Weight (lb.)	A	B	C	Cv Factor	Turn to Full Open (approx.)
	Threaded	Socket Weld	Body	Trim			End to End (in.)	Center To Top (open) (in.)	Seat Diam. (in.)		
Class 800 1975 psi @100F	22416	SW22461	Carbon Steel A105	13%Cr. Hard Faced Seat	1/4	4.80	3.75	6.69	0.19	0.56	3 1/2
					3/8	4.59	3.75	6.69	0.19	0.55	3 1/2
					1/2	5.00	3.75	6.69	0.19	0.68	3 1/2
					3/4	4.85	4.00	6.69	0.19	0.99	3 1/2
					1	8.63	4.62	8.62	0.25	1.50	5 1/2



Standard Bill of Material

12443 / 15443

22461

Dial Indicator	Stainless Steel	
Indicator Scale	Stainless Steel	
Handwheel Nut	Zi Pl. Carbon Steel	Zi Pl. Carbon Steel
Nameplate	Aluminum	Aluminum
Handwheel	Carbon Steel	Carbon Steel
Yoke Nut	ASTM A582 T416	ASTM A582 T416
Gland Flange Nut	ASTM A194 2H	ASTM A194 2H
Gland Flange	ASTM A105	ASTM A105
Gland Flange Stud	ASTM A193 B7	ASTM A193 B7
Packing Gland	ASTM A479 T316	ASTM A479 T316
Packing	Graphite (API622)	Graphite (API622)
Stem	ASTM A276 T410	ASTM A276 T410
Disc	ASTM A479 T416	Integral to Stem
Disc nut	ASTM A276 T410	
Seat	Integral CoCr Hard Faced	ASTM A276 T410 CoCr Hard Faced
Gasket	Spiral Wound 316/Graphite	Spiral Wound 316/Graphite
Body Bolting	ASTM A193 B7	ASTM A193 B7
Body	ASTM A105N	ASTM A105N
Bonnet	ASTM A105N	ASTM A105N



Our Company



In the late 1890s, Vogt pioneered the early development of ammonia absorption refrigeration systems that made artificial ice. This business, plus Vogt's fledgling boiler business, created an internal need for quality valves that initiated Vogt's early entry into the valve manufacturing business.

The early reputation of Vogt's quality valves and rapidly growing petroleum processing industry created an outside demand that would firmly establish Vogt in the mass production of high-quality forged steel valves.

For over 135 years, Vogt has been a leader in producing forged steel valves including gate, globe, angle, and check types.

Since 2017 Vogt is as part of OMB Valves group with a modern manufacturing plant in Stafford, TX, and Rescaldina, Italy. These facilities are equipped to meet the rigorous demands of various industries, ensuring that Vogt's products maintain their reputation for quality and reliability. Vogt product are available through a global distributor network

Vogt and FLOW CONTROL

A flow control valve is used to regulate the flow rate and pressure of fluids in a system. By adjusting its setting, the valve controls the velocity and volume of the fluid passing through it. This ensures optimal performance, efficiency, and safety within hydraulic, pneumatic, or fluid systems.

Vogt has supplied FC valves for more than 50 years in a wide range of application and industry sector.

Vogt Valves has established industry leadership in the design and manufacture of its products. When properly selected, this Vogt product is designed to perform its intended function safely during its useful life. However, the purchaser or user of Vogt products should be aware that Vogt products might be used in numerous applications under a wide variety of industrial service conditions. Although Vogt can (and often does) provide general guidelines, it cannot provide specific data and warnings for all possible applications. The purchaser/user must therefore assume the ultimate responsibility for the proper sizing and selection, installation, operation, and maintenance of Vogt products. The purchaser/user should read and understand the Installation Operation Maintenance (IOM) instructions included with the product and train its employees and contractors in the safe use of Vogt products in connection with the specific application.

While the information and specifications contained in this literature are believed to be accurate, they are supplied for informative purposes only and should not be considered certified or as a guarantee of satisfactory results by reliance thereon. Nothing contained herein is to be construed as a warranty or guarantee, express or implied, regarding any matter with respect to this product. Because Vogt Valves is continually improving and upgrading its product design, the specifications, dimensions and information contained herein are subject to change without notice.

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