

CVC Surface Production Chokes

Our CVC choke are designed to extend the service life of the choke valve and can significantly outlast the competition. Along with proprietary annulus and trim geometry, our choke takes advantage of submicron grade carbide, which combines the highest impact and erosional resistance on the market.

Features/Benefits

- Best for erosive, sandy and harsh applications
- Lip seal stem packing
- Hammer nut or bolted bonnet
- Linear and Equal Percentage flow characteristics
- Inconel cladding available in seal areas or all wetted surfaces
- Knife-edge sleeve-over-cage design directs flow jets inside cage to minimize erosion (flow impingement)
- Used in high pressure, large pressure drop applications
- Metal bonnet seal
- Fire safe design
- Forged body and bonnet
- Extended wear sleeve on outlet
- PR-2 tested
- PSL-1 standard, PSL-2 and PSL-3 available
- Body bleed port
- StemLock

Trim Sizes (External Sleeve)

	CVC1	CVC1.5	CVC2	CVC2.5	CVC3	CVC3.5	CVC4	CVC5
Max Orifice (Trim)	1"	1.5"	2"	2.5"	3"	3.5"	4"	5"
CV	17	40	70	110	156	202	240	368

Standard Connection Sizes

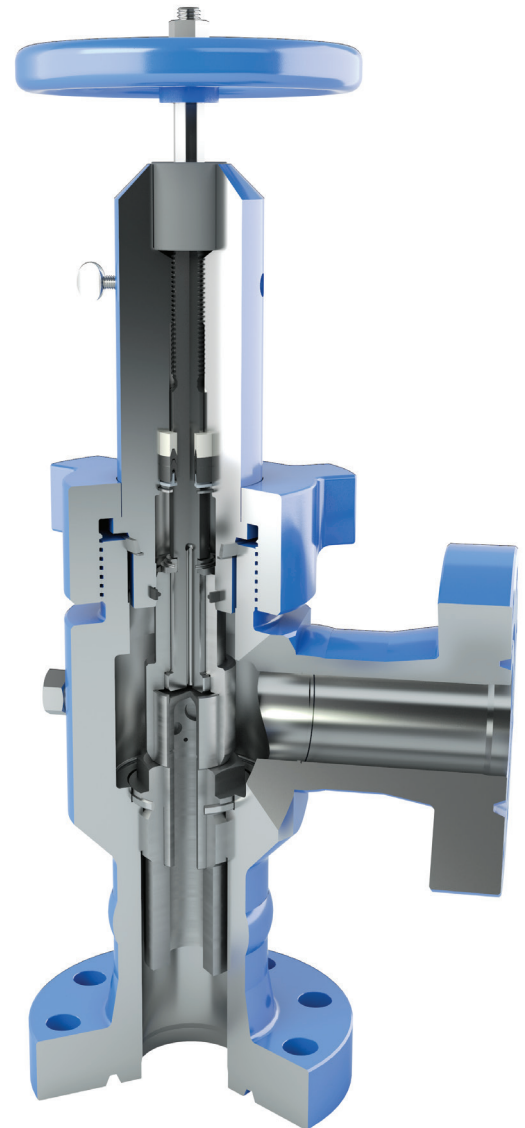
1-13/16"	2"	2-9/16"	3"	3-9/16"	4"	5"	6"
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Standard Connection Sizes

ANSI 150 RF	ANSI 300 RF	ANSI 600 RF	ANSI 600 RTJ	ANSI 900 RF	ANSI 900 RTJ	ANSI 1500 RF
ANSI 1500 RTJ	ANSI 2500 RTJ	2000 API	3000 API	5000 API	10,000 API	15,000 API

API 6A Temperature Ratings

PX -20°F to 350°F (-28°C to 121°C)	LU -50°F to 250°F (-45°C to 121°C)
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NOV Material Options

API Material Class	Non-NACE Trims		NACE Trims									
	BB	CC	EE 0.5	EE 1.5	EE-NL	EE-3601	FF 0.5	FF 1.5	FF-NL	FF 3601	HH-NL	HH 3601
Service	General	General	Sour	Sour	Sour	Sour	Sour	Sour	Sour	Sour	Sour	Sour
Corrosive	Slightly	Moderate	Moderate	Moderate	Moderate	Moderate	High	High	High	High	High	High
Body	AISI 4130 Alloy Steel	AISI 410 SS	AISI 4130 Alloy Steel	AISI 4130 Alloy Steel	AISI 4130 Alloy Steel	AISI 4130 Alloy Steel	AISI 410 SS	Grade F6NM SS	Grade F6NM SS	AISI 410 SS	AISI 4130 w/ Alloy 625 Cladding	AISI 4130 w/ Alloy 625 Cladding
Bonnet Material	AISI 4130 Alloy Steel	AISI 410 SS	AISI 4130 Alloy Steel	AISI 4130 Alloy Steel	AISI 4130 Alloy Steel	AISI 4130 Alloy Steel	AISI 410 SS	Grade F6NM SS	Grade F6NM SS	AISI 410 SS	AISI 4130 w/ Alloy 625 Cladding	AISI 4130 w/ Alloy 625 Cladding
Bolting Material	ASTM A320 L7	ASTM A193 B7	ASTM A193 B7	ASTM A320 L7	ASTM A320 L7	ASTM A193 B7	ASTM A320 L7	ASTM A320 L7	ASTM A320 L7	ASTM A193 B7	ASTM A320 L7	ASTM A193 B7
Trim Material	AISI 410/ Tungsten Carbide	AISI 410/ Tungsten Carbide	AISI 410/ Tungsten Carbide	AISI 410/ Tungsten Carbide	AISI 410/ Tungsten Carbide	AISI 410/ Tungsten Carbide	AISI 410/ Tungsten Carbide	AISI 410/ Tungsten Carbide	AISI 410/ Tungsten Carbide	AISI 410/ Tungsten Carbide	Alloy 718 and Tungsten Carbide	Alloy 718 and Tungsten Carbide
Stem Material	AISI 410 SS	AISI 410 SS	AISI 410 SS	Grade 17-4 PH SS	Alloy 725	Alloy 718	Grade 17-4 PH SS	Grade F6NM SS	Alloy 725	Alloy 718	Alloy 725	Alloy 718
Stem Packing	PTFE/ Elgiloy	PTFE/ Elgiloy	PTFE/ Elgiloy	PTFE/ Elgiloy	PTFE/ Elgiloy	PTFE/ Elgiloy	PTFE/ Elgiloy	PTFE/ Elgiloy	PTFE/ Elgiloy	PTFE/ Elgiloy	PTFE/ Elgiloy	PTFE/ Elgiloy

*Other Materials available upon request

Actuation/Automation Options

Pneumatic VBS-100 Stepping Actuator
Hydraulic VBS-100 Stepping Actuator
Electric
Pneumatic Piston
Pneumatic Diaphragm
Hydraulic
Manual