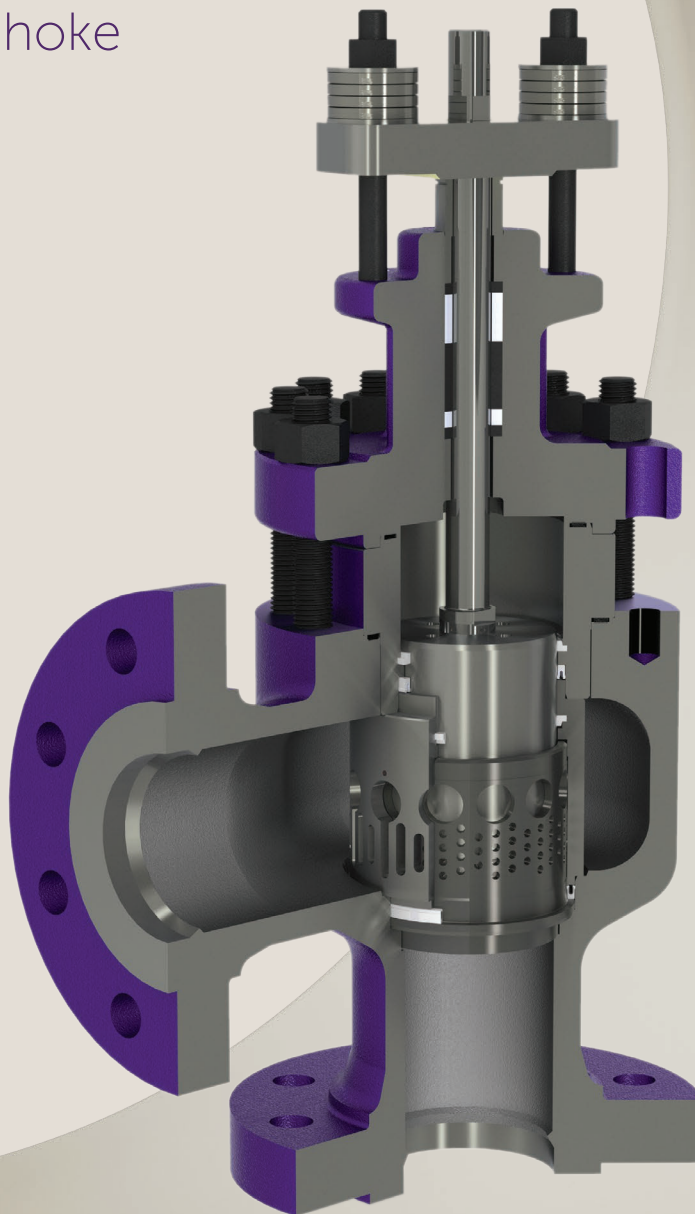


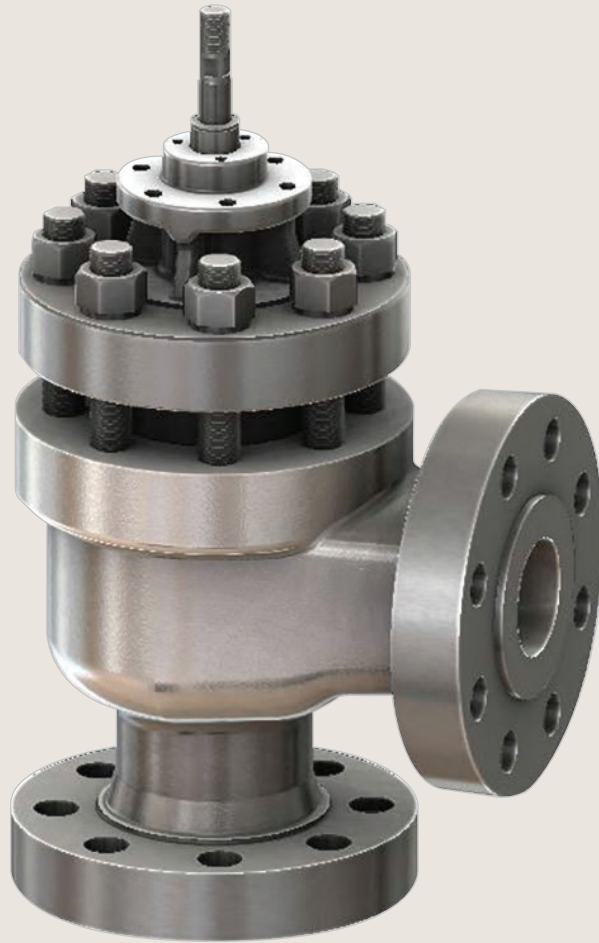
Process Automation

IMI CCI

860HPC

Critical service choke





860HPC

Wear-resistant choke with tungsten carbide inner cage and plug

The 860HPC is control valve ideally suited for use in critical service choke applications. Critical service choke applications usually encounter issues such as high noise, improper velocity control, incompatibility in multi-phase flow streams and corrosion. The 860HPC is designed to address these concerns.

Designed for applications with up to 200 bar pressure differential, wear resistance is optimised with tungsten carbide inner cage and plug. Higher flexibility can be obtained by two different trim sets available to match a high range of operating conditions. A drilled hole cage with reduced Cv is available for start up and for initial life conditions. To accommodate large flow rates and lower pressure drops encountered during end of life conditions, a slotted cage with increased capacity is used.

Key benefits

Wear-resistance

Available with different sets of materials, suitable for different grades of chemical corrosion

Compatibility

Singleton sizing for multi-phase flow stream Cv calculation

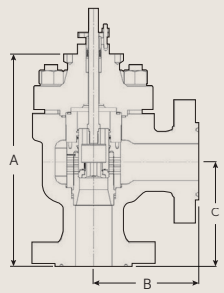
Low noise

Optimised drilled hole pattern for low noise performance

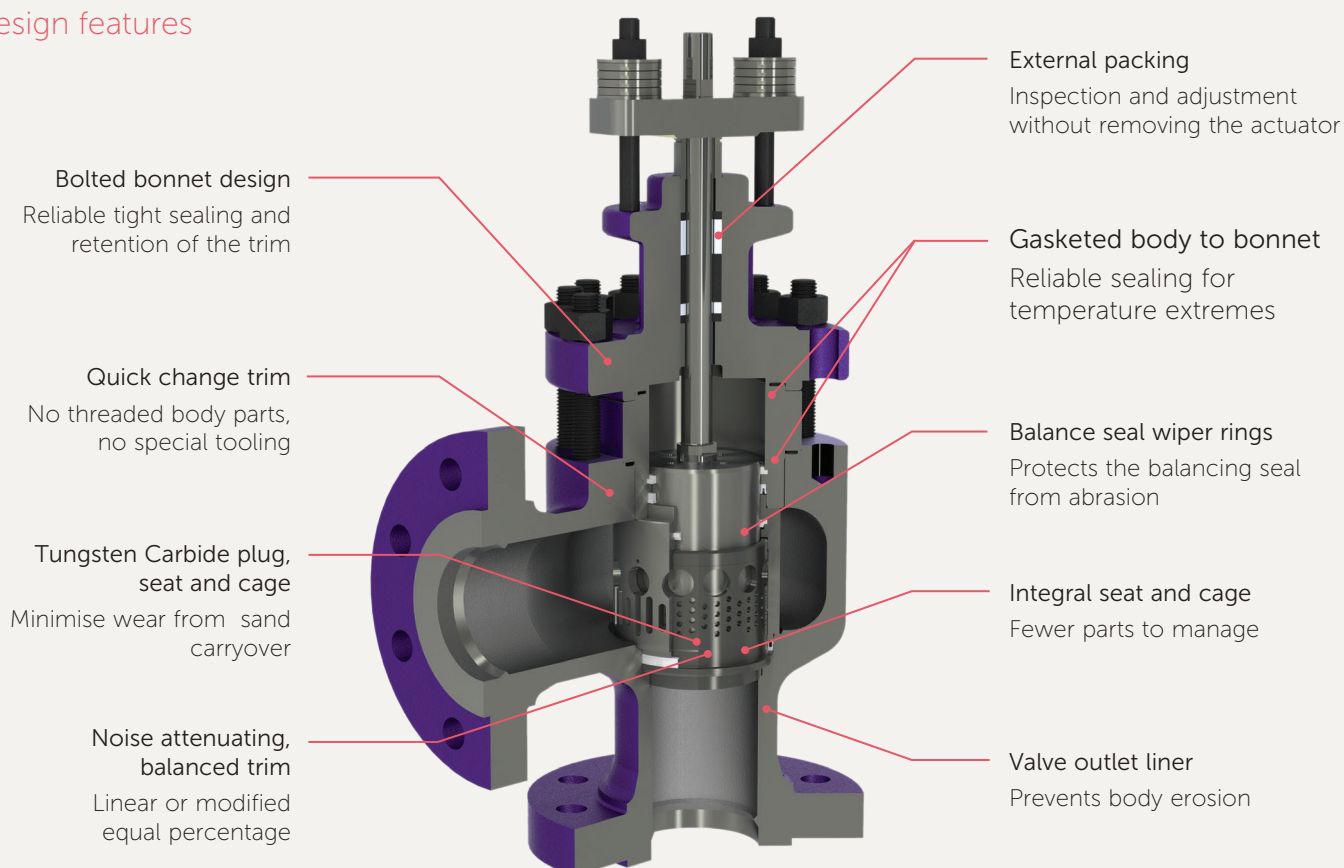
Velocity control

Optimised flow paths for velocity control

Technical features

Pressure rating	ANSI Class 1500, Class 2500 / API 5000									
Temperature range	-46 °C to 176 °C (-50°F to 350°F)									
Flow direction	Flow-to-close									
Shut-off class	ANSI/FCI 70.2, Leakage Class IV or V									
End connections	RTJ or Hub									
Quality specification	ASME B16.34, API PSL1, PSL2, PSL3, API PR1, PR2									
Trim type / characteristic	Cage choke / linear or modified equal percentage									
Sizing method	Single phase per ISA S75.01, multiphase per E.W. Singleton									
Actuators of IMI CCI	MSD-III pneumatic diaphragm, SP pneumatic piston, or manual override									
Actuators	Electric, hydraulic modulating, pneumatic / hydraulic stepper motors									
Body type	Angle casting									
Materials	Body and bonnet	ASME: A216-WCC / API: A958-SC4130 (application specific options available)								
	Bolting	A 193-B7M / A 194-GR 2HM (application specific options available)								
Dimensions	Pressure rating	ANSI Class 1500 / API 5K				ANSI Class 2500				
	Body size (in)	2 / 2½	3 / 3½	4 / 4½	6 / 7½	8	3	4	6	
	A (mm)	433	481	536	791	839	680	762	871	
	B (mm)	200	230	265	384	438.2	300	370	442	
	C (mm)	200	230	265	384	425.5	300	370	442	
Valve size and Cv	ASME valve size (in)	2 x 2, 1500# 3 x 3, 2500#	3 x 3, 1500# 3 x 3, 2500# 4 x 4, 2500#	3 x 3, 1500# 4 x 4, 2500#	4 x 4, 1500# 6 x 6, 2500#	6 x 6, 1500# 6 x 6, 2500#	6 x 6, 1500# 8 x 8, 2500#	8 x 8, 1500#		
	API valve size (in)	2½, 5K	3½, 5K	3½, 5K	4½, 5K 5½, 5K	5½, 5K 7½, 5K	7½, 5K	9, 5K		
	Plug size (in)	1	1.75	2.5	3	4	5	6		
	Stroke (mm)	20	30	40	50	70	70	100		
	Full Cv (Reduced Cv)	15 (12)	50 (35)	95 (70)	140 (110)	270 (200)	400 (270)	600 (460)		

Design features



Process Automation

The information in this brochure is provided for general informational purposes only. Specifications for products and services are subject to change without prior notice. IMI plc and its subsidiaries own all product brands mentioned herein.

IMI makes no warranties or representations about the accuracy or completeness of the content in this brochure and assumes no liability for any errors or omissions it may contain. We reserve the right to modify, enhance, or discontinue any product or service described herein without prior notification.

IMI CCI

IMI plc
14 Dangdong 2-ro
Munsan-eup, Paju-si
Gyeonggi-do
Korea 10816

www.imiplc.com/process-automation

01002.04/25en

