



New Star Flow Control

Product Catalogue

CHOKE VALVES & ACTUATORS

“Lifetime Partners of Your Well”

Engineered for Today's Harsh Environments Manufactured in accordance to API 6A / Q1, ABSA CRN, & NACE

With customized equal percentage trim characteristic

Reliable products for the oil & gas industry through engineering and quality

New Star Flow Control Inc. manufactures premium flow control products for high-performance oil and gas companies worldwide

We combine rigorous research with our unique engineering capabilities to create products that deliver world-class results each and every time

Being a world-class manufacturer of choke valves, New Star delivers quality product on time to our customers around the world

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“The content of this product information sheet is subject to change without notice”

SMART FEATURES

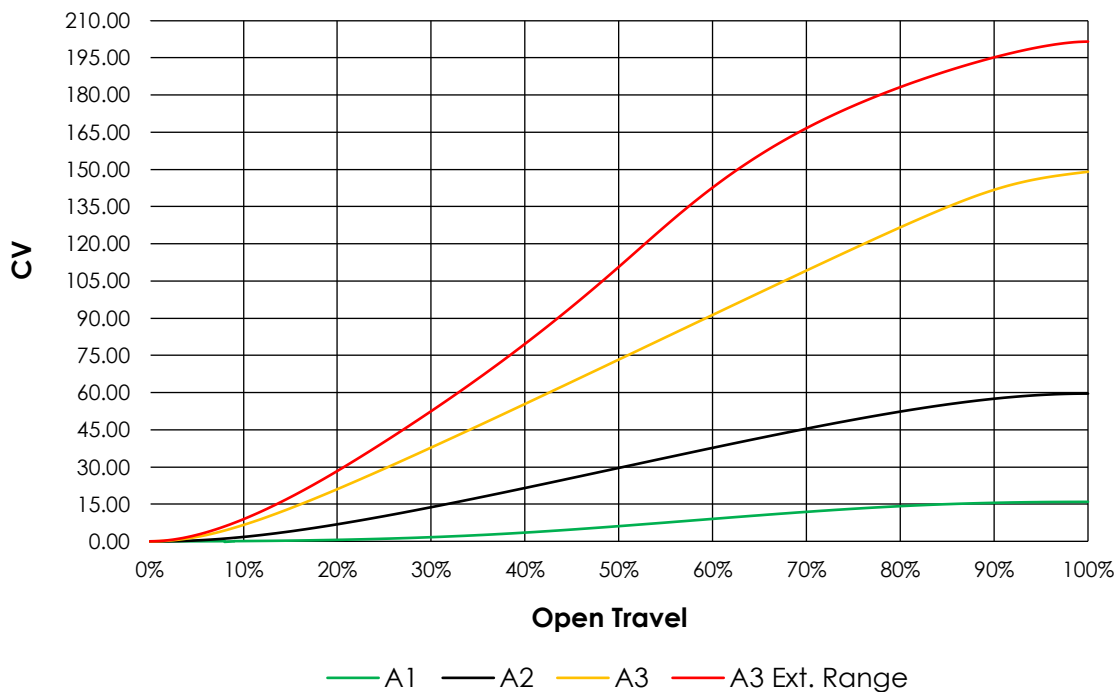
- Pressure balanced design, minimizing torque/thrust loads
- Low torque stem packing & sealing system, lower cost for actuation components
- Customizable ports to optimize performance
- Solid Tungsten Carbide trim standard
- Cage with shrink-fit carrier protector
- Replaceable outlet wear sleeve
- 360/24 degree stem locking device standard
- Closed yoke protects moving parts
- Bolted bonnet design for all sizes
- Large trim positioning indicator with sleeve pointer protector in stainless steel
- API – M/C (EE-.5), Temp (L/U) as standard
- All other API material classes are available



CV

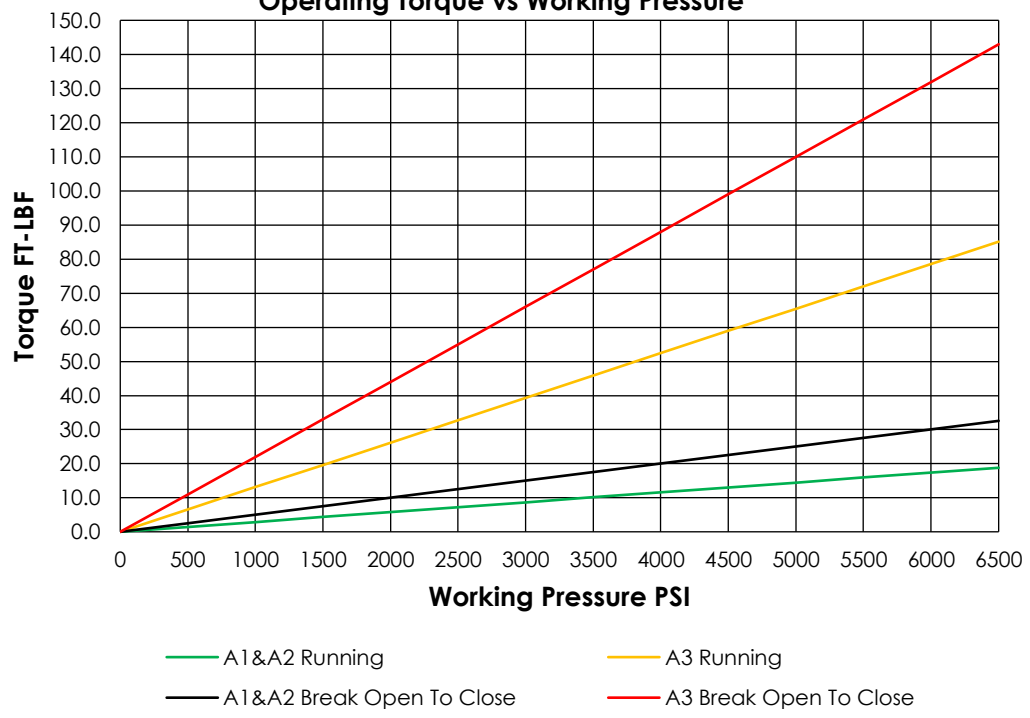
- A1 1" nom body - Max Cv: 16.0
- A2 2" nom body - Max Cv: 59.7
- A3 3" nom body - Max Cv: 149.0
- A3 3" Ext. range - Max Cv: 201.5

CV Vs Open Travel

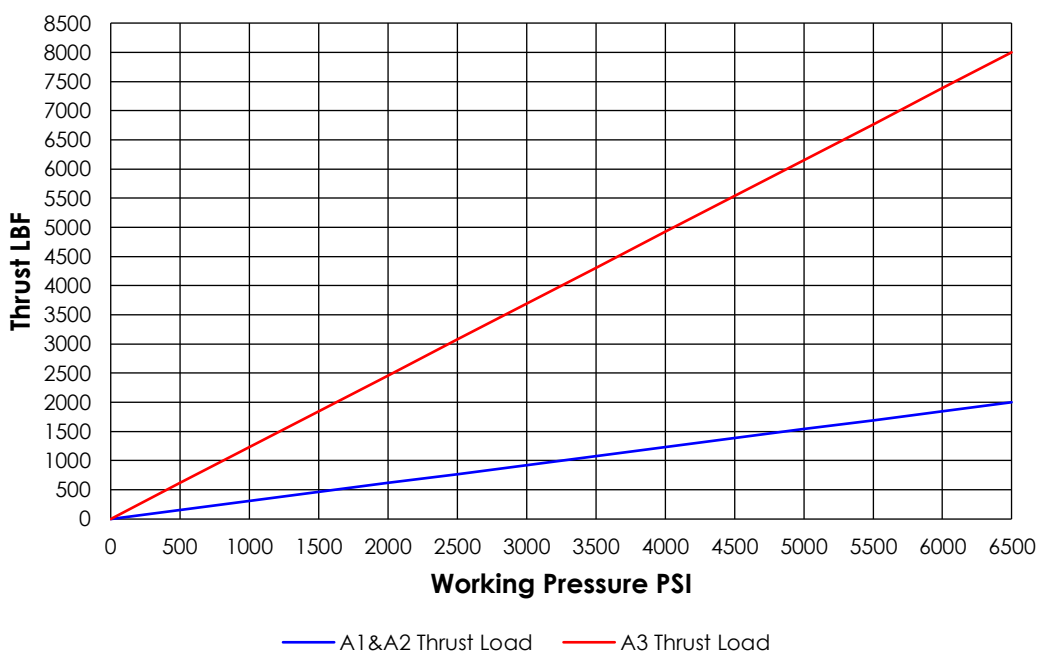


Operating Load

Operating Torque vs Working Pressure

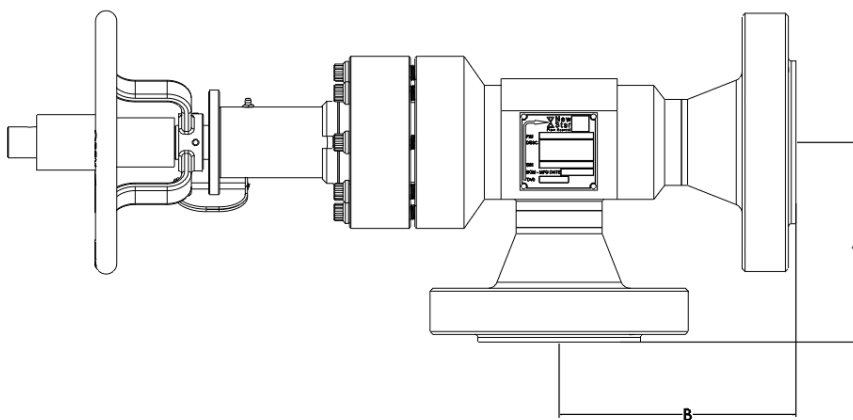


Thrust Load vs Working Pressure



Dimensions

"A" SERIES DIMENSIONS											
Row Color		A1		A2				A3			
End Connections	Working Pressure	End Connections Sizes									
		2"		3"		4"		5"		6"	
		Dimensions Inches									
		A	B	A	B	A	B	A	B	A	B
ANSI 600# RF	AS PER END CONNECTION	6.13	7.25	6.27	7.62	X	X	X	X	X	X
		6.39	7.82	6.55	8.19	X	X	X	X	X	X
		X	X	8.38	9.29	X	X	X	X	X	X
ANSI 900# RF		7.25	8.37	7.02	8.37	X	X	X	X	X	X
		7.51	8.94	7.3	8.94	X	X	X	X	X	X
		X	X	9.13	10.04	X	X	10.13	11.04	X	X
ANSI 1500# RF		7.27	8.37	7.75	9.05	X	X	X	X	X	X
		7.53	8.94	8.03	9.62	X	X	X	X	X	X
		X	X	9.81	10.72	X	X	11.25	12.16	11.88	12.79
ANSI 600# RTJ		X	X	X	X	X	X	X	X	X	X
		X	X	X	X	X	X	X	X	X	X
		X	X	X	X	X	X	X	X	X	X
ANSI 900# RTJ	7.12	8.24	7.08	8.43	X	X	X	X	X	X	
	7.57	9.00	7.36	9.00	X	X	X	X	X	X	
			9.19	10.10	X	X	X	X	X	X	
ANSI 1500# RTJ	7.33	8.43	7.75	9.05	X	X	X	X	X	X	
	7.59	9.00	8.03	9.62	8.02	9.88	X	X	X	X	
			9.81	10.72	10.07	10.98	11.31	12.22	12.00	12.91	
ANSI 2500# RTJ	8.4	9.43	9.95	11.12	X	X	X	X	X	X	
	8.65	10.00	10.22	11.69	10.97	12.63	X	X	X	X	
	X	X	11.87	12.78	12.81	13.72	14.38	15.29	X	X	



"A" SERIES DIMENSIONS											
Row Color		A1		A2				A3			
End Connections	Working Pressure	End Connections Sizes									
		2-1/16"		2-9/16"		3-1/16"		3-1/8"		4-1/16"	
		Dimensions Inches									
		A	B	A	B	A	B	A	B	A	B
API 5K	AS PER END CONNECTION	7.33	8.43	X	X	X	X	7.75	9.05	X	X
		7.59	9.00	X	X	X	X	8.00	9.63	X	X
		X	X	X	X	X	X	9.82	10.73	10.07	10.98
API 10K		X	X	8.12	9.12	8.25	9.61	X	X	X	X
		X	X	8.37	9.69	8.54	10.18	X	X	X	X
		X	X	9.87	10.78	10.36	11.27	X	X	X	X

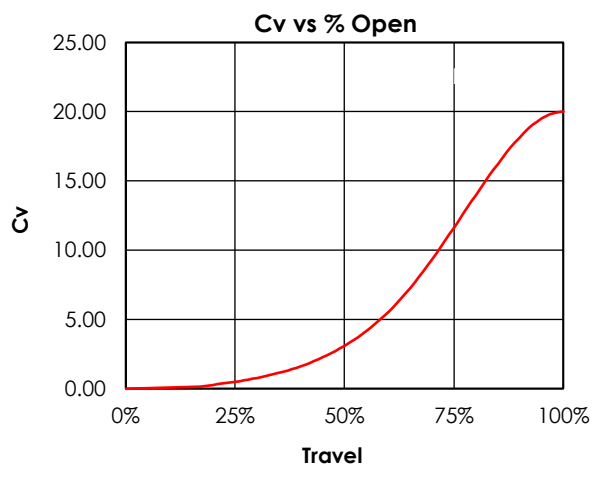
SMART FEATURES

- Choke can remain installed in the pipeline for trim changes, huge cost savings for end user
- Reduced torque stem design, lowering cost for actuation components
- Quick and simple maintenance
- Customizable ports to optimize performance
- Solid Tungsten Carbide trim as standard
- Replaceable Tungsten outlet wear sleeve
- Large Cv of 20.00
- Large trim positioning visual indicator
- API – M/C (EE-.5), Temp (L/U) as standard
- All optional API material classes are available



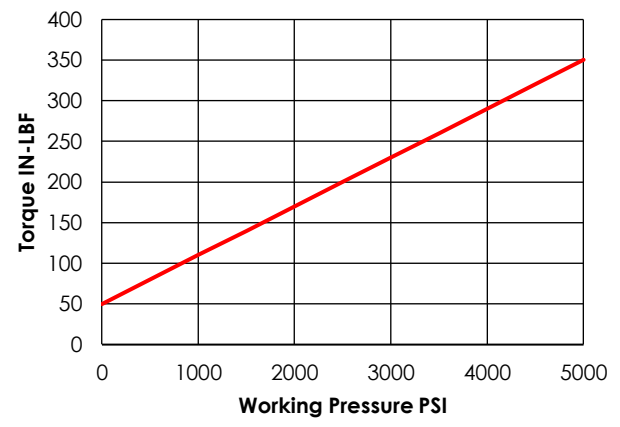
CV

- EA 1" Nom. body - Max Cv: 20.0



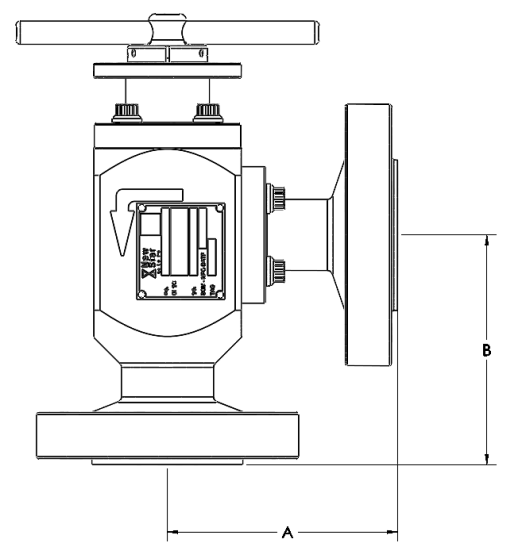
Operating Load

Operating Torque vs Working Pressure



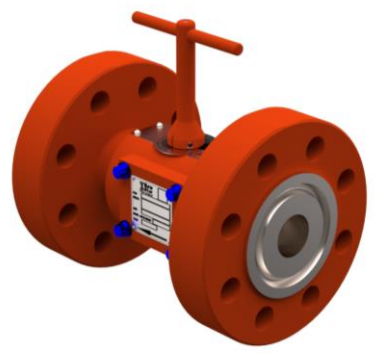
"EA" SERIES DIMENSIONS

End Connections	Working Pressure	Dimensions Inches	
		A	B
2" ANSI 600# RF	AS PER END CONNECTION	6.81	6.81
2" ANSI 900# RF		7.93	7.93
2" ANSI 1500# RF		7.93	7.93
2" ANSI 600# RTJ		6.88	6.88
2" ANSI 900# RTJ		8.00	8.00
2" ANSI 1500# RTJ		8.00	8.00
2" FNPT		8.00	8.00
2-1/16" API 5K		8.00	8.00



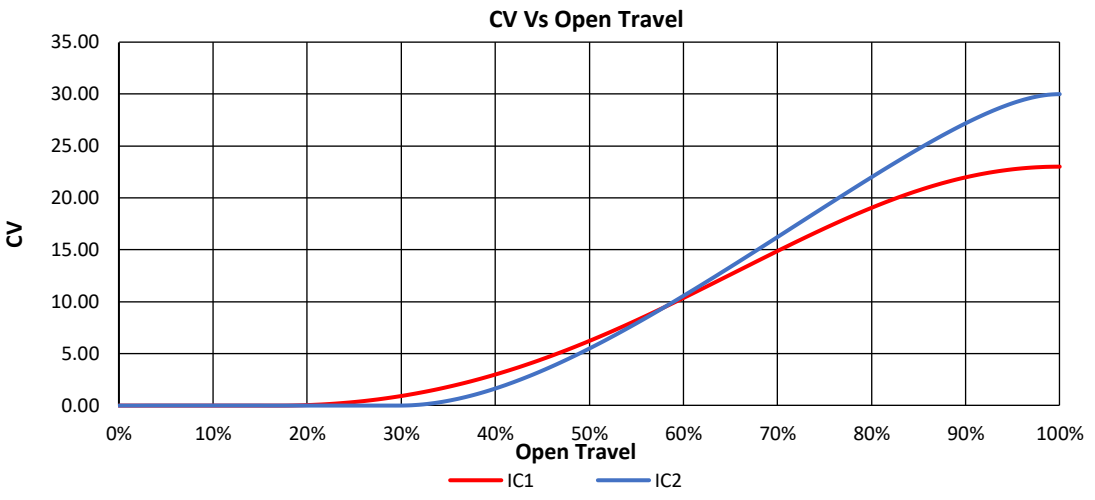
SMART FEATURES

- Inline side entry design
- Choke can remain installed in the pipeline for trim changes, huge cost savings for end user
- Reduced torque stem design, lowering cost for actuation components
- Quick and simple maintenance
- Customizable multiple orifice ports to optimize performance, disc style trim
- Solid Tungsten Carbide trim as standard
- Replaceable Tungsten Carbide outlet wear sleeve
- Large Cv of 30.00
- Large trim positioning visual indicator
- API – M/C (EE-.5), Temp (L/U) as standard
- All other API material classes are available



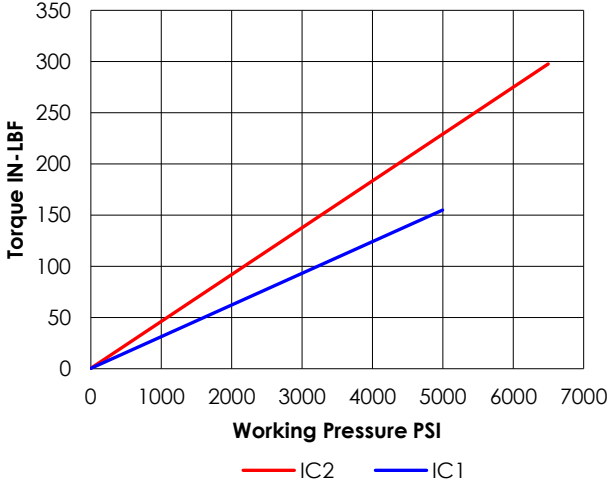
CV

- IC1 1" nom body - Max Cv: 23.0
- IC2 2" nom body - Max Cv: 30.0

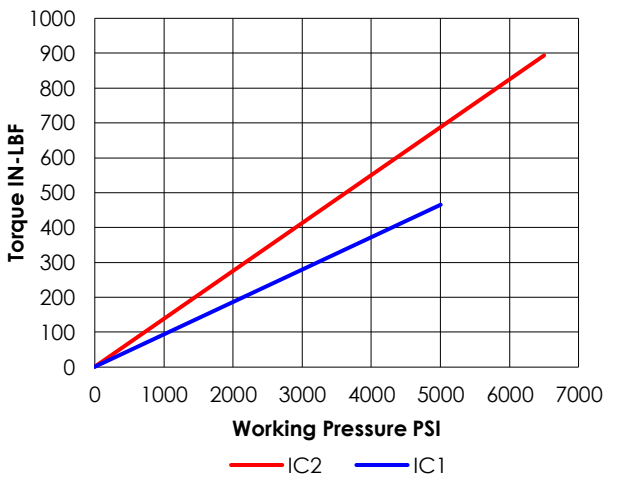


Operating Load

OPERATING TORQUE VS WORKING PRESSURE 270° TURN

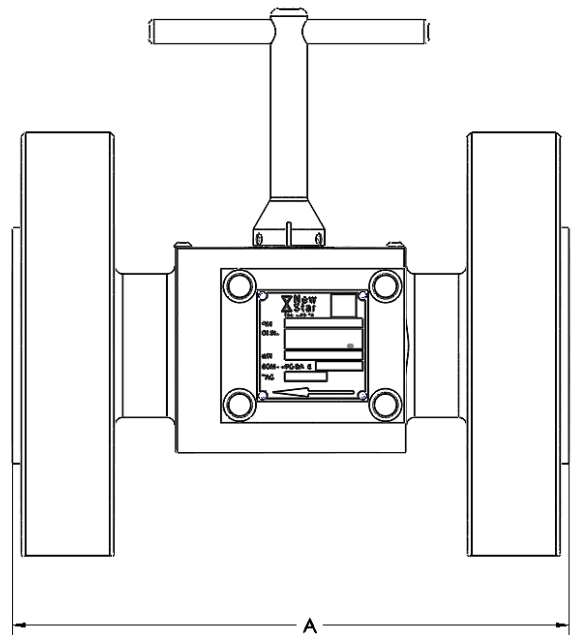


OPERATING TORQUE VS WORKING PRESSURE 90° TURN



Dimensions

"IC" SERIES DIMENSIONS		
	End Connections	A Inches
IC1	2" FNPT	10.30
	2" ANSI 600# RF	10.30
	2" ANSI 900# RF	10.30
	2" ANSI 1500# RF	10.30
	2" ANSI 600# RTJ	10.30
	2" ANSI 900# RTJ	10.30
	2" ANSI 1500# RTJ	10.30
	2-1/16" API 5K	10.30
IC2	3" ANSI 600# RF	15.75
	3" ANSI 900# RF	15.75
	3" ANSI 1500# RF	15.75
	3" ANSI 900# RTJ	15.75
	3" ANSI 1500# RTJ	15.75
	3" ANSI 2500# RTJ	15.75
	3-1/8" API 5K	15.75
	4" ANSI 600# RF	15.75
	4" ANSI 900# RF	15.75
	4" ANSI 1500# RF	15.75
	4" ANSI 900# RTJ	15.75
	4" ANSI 1500# RTJ	15.75
	4-1/16" API 5K	15.75



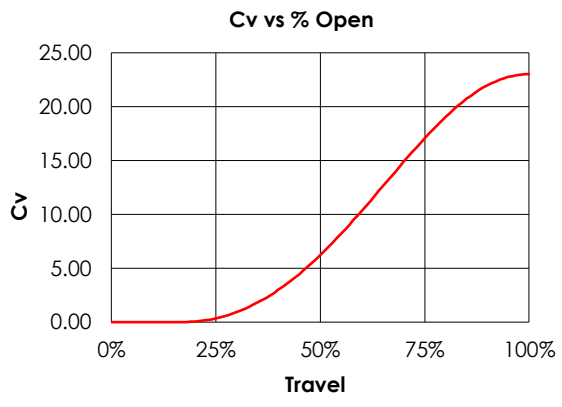
SMART FEATURES

- Provides accurate, high capacity rangeability, calibrated flow control, and increased choke service life in all applications.
- Our design and materials of construction aide in the control of cavitation, erosion, and freezing, even in high-pressure-drop and severe service conditions.
- Tungsten Carbide pie-shaped trim increases flow volume while reducing nominal body size, reducing end user cost.
- Trim design resists freezing in CO2 service. It also has positive shutoff and easily adapts to field applications using electric, hydraulic, and pneumatic actuators.
- Enhanced durability and wear resistance by use of solid Tungsten Carbide wear sleeve in the outlet.
- There are no loose or unsupported parts to cause vibration, noise, or fatigue failures.
- Our design has minimal wear components that are easily replaced, resulting in less downtime, and reduced operational costs. Another benefit, adding to its service life: a second set of orifice wearing edges are available by rotating the discs in the opposite direction.
- API – M/C (EE-.5), Temp (L/U) as standard
- All optional API material classes are available

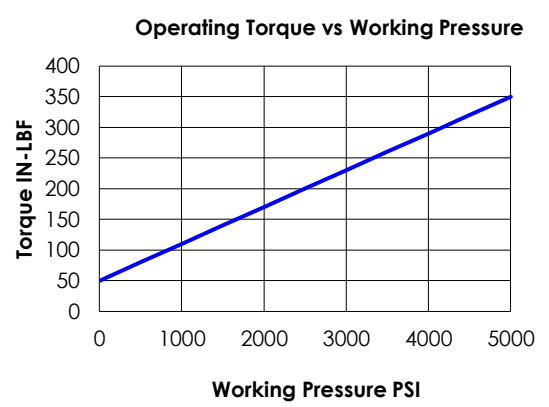


CV

EC1 1” Nom. body - Max Cv: 23.0

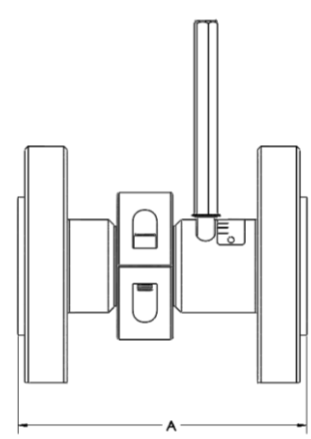


Operating Load



Dimensions

“EC” SERIES DIMENSIONS		
	End Connection	A Inches
EC1	2” FNPT	10.30
	2” ANSI 600# RF	10.30
	2” ANSI 900# RF	10.30
	2” ANSI 1500# RF	10.30
	2” ANSI 600# RTJ	10.30
	2” ANSI 900# RTJ	10.30
	2” ANSI 1500# RTJ	10.30
	2-1/16” API 2K	10.30
	2-1/16” API 3K	10.30
	2-1/16” API 5K	10.30



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