

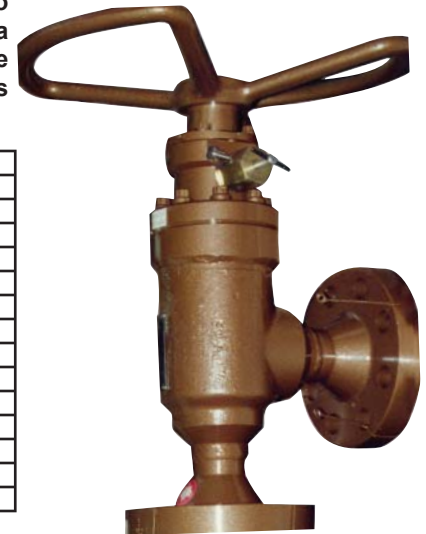
E P25E Bolted-Bonnet Choke

6 000 psig / Max Cv 45 / Max Bean Size 103



VALVE SPECIFICATIONS

This choke-valve option uses a bolted bonnet to retain the flow trim in the valve body. It features a simple metal-to-metal bonnet seal with only three other elastomeric seals. Standard end connections range in size from 2" to 4".



Valve Model	P25E BB
Body Type	Right Angle
Body Rating	6 000 PSIG (Maximum C.W.P.)
Inlet Connection	see 'Standard End Connections'
Outlet Connection	see 'Standard End Connections'
Bonnet Type	Bolted
Body / Bonnet Material	see 'Material Options'
Stem Material	see 'Material Options'
Seal Material	see 'Material Options'
Trim Style	Ported Cage with External Sleeve
Balanced / Unbalanced	Unbalanced
Flow Characteristic	Equal Percentage
Trim Material	see 'Trim Options'
Design Cv	see 'Trim Options'
Leakage Class	Class V (Standard)

TRIM OPTIONS

	Standard Trim Cage & External Sleeve 2 Row / 4 Hole	Multistage Trim	High-Pressure Multi-stage Trim
Material	UNS S17400, Stellite, Tungsten Carbide	Stellite, Tungsten Carbide	Stellite, Tungsten Carbide
Application	Liquid, Gas, Multiphase; Clean or Abrasive*	Liquid, Gas, Multiphase	Liquid, Gas, Multiphase
Cv	45	14	10
Turns	12	11	11
Travel	1.50"	1.25"	1.25"

* For abrasive service, tungsten carbide is recommended.

STANDARD END CONNECTIONS

Connection Size ▶	Standard Dimensions & Estimated Weights											
	2" Nominal				3" Nominal				4" Nominal			
	'I' or 'O'		Weight		'I' or 'O'		Weight		'I' or 'O'		Weight	
Connection Type ▼	inch	mm	lbs.	kg	inch	mm	lbs.	kg	inch	mm	lbs.	kg
Threaded	4.50	114	82	37	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
ASME 150 RF	7.00	178	92	42	7.25	184	103	47	7.50	191	115	52
ASME 300 RF	7.25	184	96	44	7.62	194	114	52	7.88	200	135	61
ASME 600 RF	7.62	194	100	45	8.00	203	116	53	8.75	222	156	71
ASME 600 RTJ	7.69	195	100	45	8.06	205	116	53	8.81	224	156	71
ASME 900 RF	8.75	222	128	58	8.75	222	138	63	9.25	235	184	84
ASME 900 RTJ	8.81	224	128	58	8.81	224	138	63	9.31	237	184	84
ASME 1500 RF	8.75	222	128	58	9.38	238	176	80	9.62	244	220	100
ASME 1500 RTJ	8.81	224	128	58	9.44	240	176	80	9.69	246	220	100
ASME 2500 RTJ	n/a	n/a	n/a	n/a	11.50	292	268	122	12.44	316	374	170
2 000 API 6B	7.69	195	100	45	8.06	205	116	53	8.81	224	156	71
3 000 API 6B	8.81	224	128	58	8.81	224	138	63	9.31	237	184	84
5 000 API 6B	8.81	224	128	58	9.44	240	177	80	9.69	246	220	100

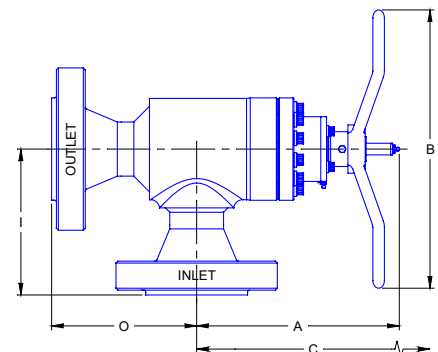
2-1/2" connections are also available

ENVELOPE DIMENSIONS

Dimensions 'A', 'B', and 'C' apply to manually operated chokes and are tabulated below. 'I' (inlet) and 'O' (outlet) dimensions depend on the end connections and are tabulated above. Special dimensions and other end connections are available upon request.

Dimensions		
	inch	mm
A	13.19	335
B	18.00	457
C	19.25	489

Note: "C" is the disassembly clearance.



6A-0138

17D-0008

MATERIAL OPTIONS

Temperature Class	Certification Level	API - 6A Material Class Designations							
		AA	BB	CC	DD	EE	FF	HH	
PU -20F to 250F	STD / PSL-1	BB	BB	FF	EE	EE	FF	HH	
PX -20F to 350F*	PSL-2	EE	EE	FF	EE	EE	FF	HH	
	PSL-3	EE	EE	FF	EE	EE	FF	HH	
LU -50F to 250F	STD / PSL-1	EE	EE	FF	EE	EE	FF	HH	
PX -50F to 350F*	PSL-2	EE	EE	FF	EE	EE	FF	HH	
	PSL-3	EE	EE	FF	EE	EE	FF	HH	

* Not available in Material Class HH; Requires Teflon seals.

	BB-General Service	EE-Sour Service	FF-Sour Service	HH-Sour Service
Body	AISI 8620	AISI 8620	UNS S31803	AISI 8620 / Inconel 625
Bonnet	ASTM A350 LF2 or AISI 4130	ASTM A350 LF2 or AISI 4130	UNS S31803	Inconel 625
Stem	UNS S17400	UNS S17400	UNS S17400	Inconel 718
Bolting	ASTM A320 L7M	ASTM A320 L7M	ASTM A320 L7M	ASTM A320 L7M
Retaining Sleeve	ASTM A743 CF8M	ASTM A743 CF8M	ASTM A743 CF8M	Inconel 625

Other materials available upon request.

OTHER VALVE OPTIONS

	Standard	Optional
Calibration Head / Serial Plaque	Aluminum	Stainless Steel
Outlet Sleeve	-	Stainless Steel, Tungsten Carbide
Body Bleed Port	-	½" NPT, API Autoclave

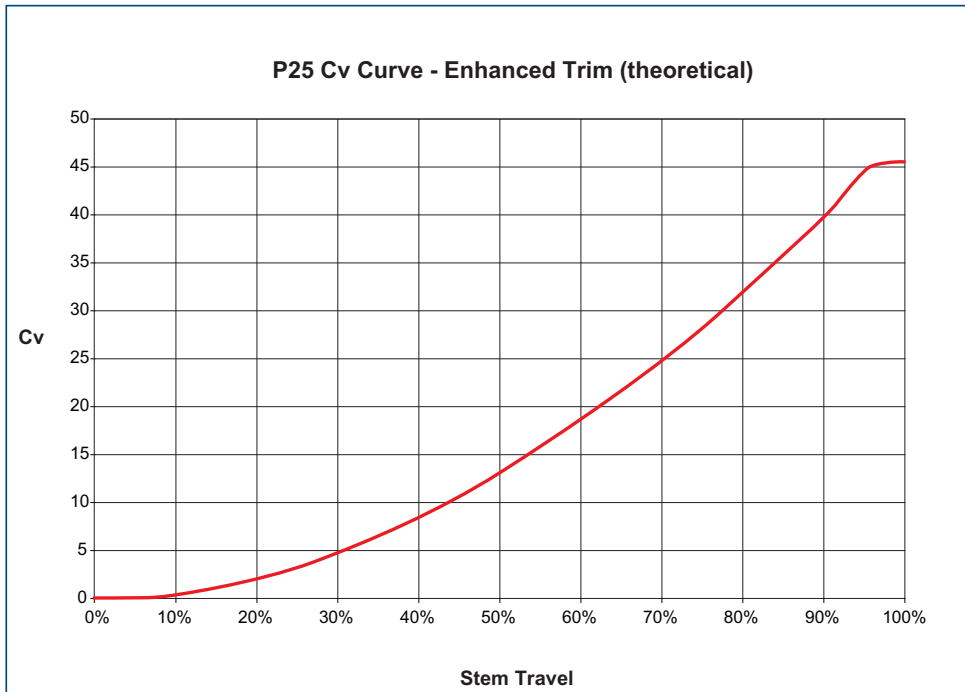
Some limitations may apply.

ACTUATION OPTIONS

Master Flo	Other
Manually Operated (Stemlock is optional)	Rotary Electric
Rotary Stepping (Pneumatic)	
Rotary Stepping (Hydraulic)	

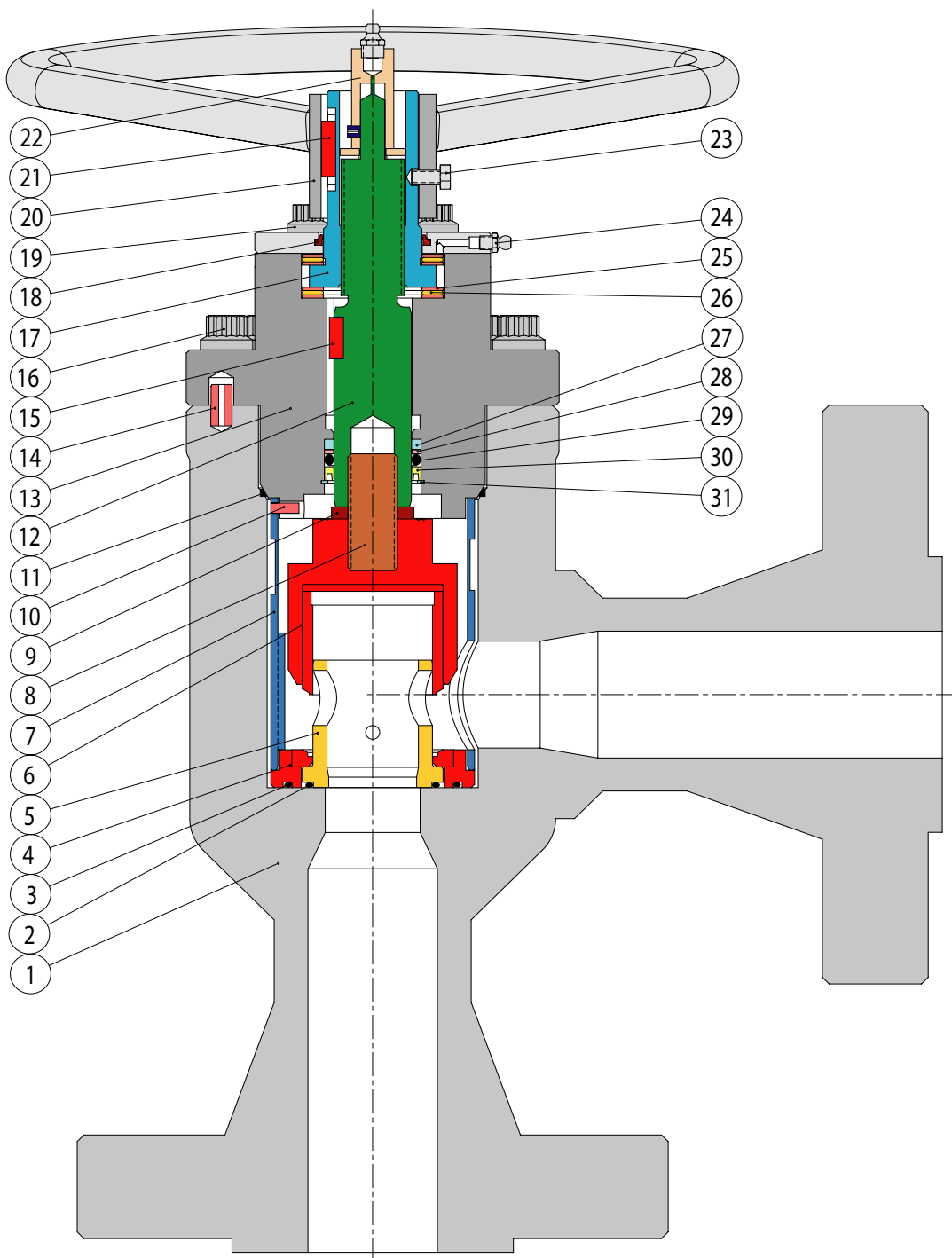
Other actuators available upon request.

PERFORMANCE CHARACTERISTICS



LIQUID PRESSURE RECOVERY FACTOR (FL)

Master Flo's trim geometry has been designed to achieve high F_L numbers. This results in a decreased cavitation potential, lower noise generation, increased flow capacity, and longer trim life. The high F_L numbers of Master Flo's trims have been verified experimentally as per the test procedures of ISA-S75.02-1996.



PARTS LIST

1. Body
2. Seal: Nozzle - Body
3. Seal: Seat - Body
4. Seat
5. Cage
6. External Sleeve
7. Retaining Sleeve
8. Stud
9. Lockwasher
10. Pin
11. Seal: Bonnet - Body
12. Stem
13. Bonnet
14. Spring Pin
15. Key
16. Capscrew
17. Stem Nut
18. Wiper
19. Capscrew
20. Handwheel
21. Key
22. Calibration Head
23. Capscrew
24. Grease Nipple
25. Thrust Washer
26. Thrust Bearing
27. Stem Bushing
28. B/U Ring: Stem - Bonnet
29. Seal: Stem - Bonnet
30. Stem Bushing
31. Retaining Ring

P25 Product Family

Standard:

- P25E - Hammer-Union Bonnet; 5 000 PSI

Other Options:

- P25E BB - Bolted Bonnet; 6 000 PSI
- P25E 15k - Bolted Bonnet; 15 000 PSI
- P25E HT - Hammer Union; 5 000 PSI; High-Temperature Service
- C25E - Hammer Union; 3 600 PSI; Inline
- C25E BB - Bolted Bonnet; 3 600 PSI; Inline
- C25E HT - Hammer Union; 3 600 PSI; Inline; High-Temperature Service

chokes for all applications

recycle lines



vent valves



manifold



production



blow down

glycol injection

overboard dumps



subsea



level controllers

water injection

