

E C3E High-Temperature Valve 5CB

3 600 psig / Max Cv 83 / Max Bean Size 137

VALVE SPECIFICATIONS ▶

Valve Model	C3E HT
Body Type	Inline
Body Rating	3 600 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	Semi-Balanced
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
Material	UNS S17400, Stellite, Tungsten Carbide *
Application	Liquid, Gas, Multiphase; Clean
Cv	83
Turns	17
Travel	2.15"

* Cage only.

STANDARD END CONNECTIONS ▶

Connection Size ▶	Standard Dimensions & Estimated Weights							
	3" Nominal				4" Nominal			
	'F'		Weight		'F'		Weight	
Connection Type ▼	inch	mm	lbs.	kg	inch	mm	lbs.	kg
ASME 150 RF	*12.50	*318	170	77	13.88	353	211	96
ASME 300 RF	12.50	318	170	77	14.50	368	231	105
ASME 600 RF	13.25	337	173	79	15.50	394	256	116
ASME 600 RTJ	13.38	340	173	79	15.62	397	256	116
ASME 900 RF	17.38	441	245	111	20.12	511	325	147
ASME 900 RTJ	17.50	445	245	111	20.25	514	325	147
ASME 1500 RT	18.12	460	252	114	20.88	530	350	159
ASME 1500 RTJ	18.25	464	252	114	21.00	533	350	159

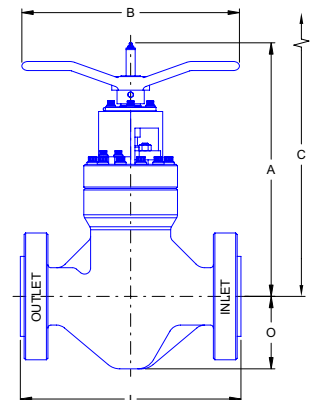
* Not a standard ISA face-to-face dimension.

ENVELOPE DIMENSIONS ▶

Dimensions 'A', 'B', and 'C' apply to manually operated valves and are tabulated below. 'F' (face-to-face) dimension depends on the end connection and is tabulated above. Special dimensions and other end connections are available upon request.

Dimensions		
	inch	mm
A	21.00	533
B	18.00	457
C	28.62	727
D	6.00	152

Note: "C" is the disassembly clearance.



MATERIAL OPTIONS

Temperature Class	Certification Level	API - 6A Material Class Designations						
		AA	BB	CC	DD	EE	FF	HH
-20F to 750F	STD / PSL-1	BB	BB	CC	n/a	n/a	n/a	n/a
	PSL-2	BB	BB	CC	n/a	n/a	n/a	n/a
	PSL-3	BB	BB	CC	n/a	n/a	n/a	n/a

	BB-General Service	CC-General Service
Body	ASTM A352 LCC / ASTM A216 WCB	UNS S31803
Bonnet	AISI 4130 or ASTM A350 LF2	UNS S42400
Stem	UNS S17400	UNS S17400
Bolting	ASTM A320 L7M	ASTM A320 L7M
Retaining Sleeve	ASTM A743 CF8M	ASTM A743 CF8M
Seals	SS / Graphoil	SS / Graphoil

Other materials available upon request.

OTHER VALVE OPTIONS

	Standard	Optional
Calibration Head / Serial Plaque	Aluminum	Stainless Steel
Outlet Sleeve	-	n/a
Body Bleed Port	-	n/a

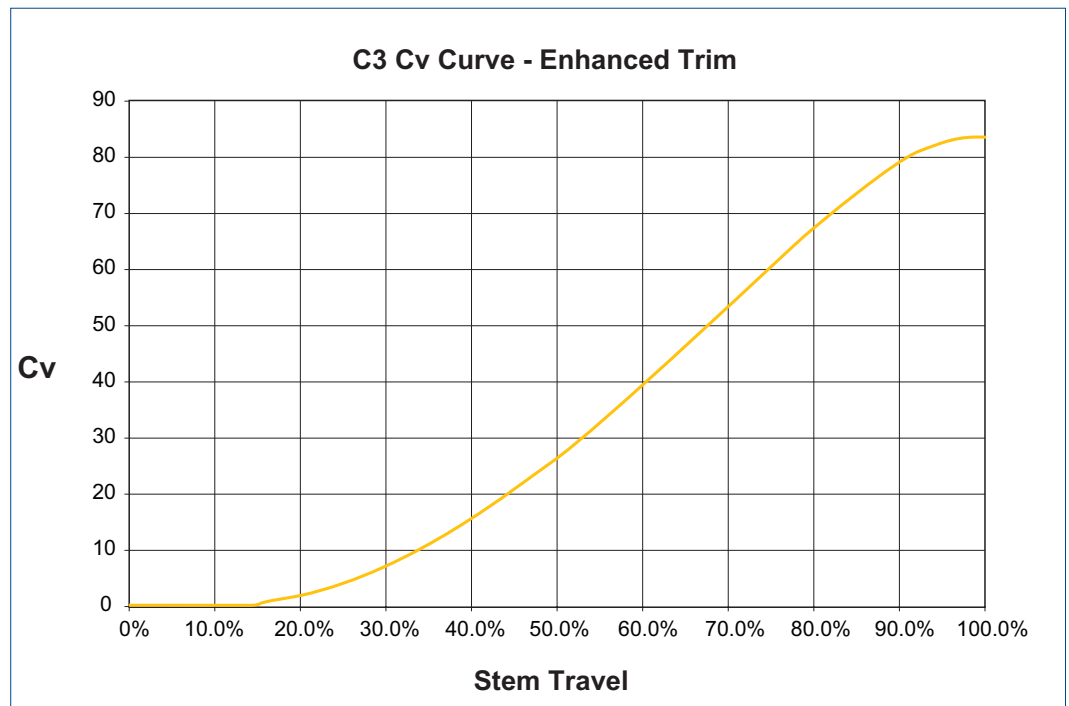
Some limitations may apply.

ACTUATION OPTIONS

Master Flo	Other
Manually Operated	Pneumatic Piston
	Pneumatic Diaphragm

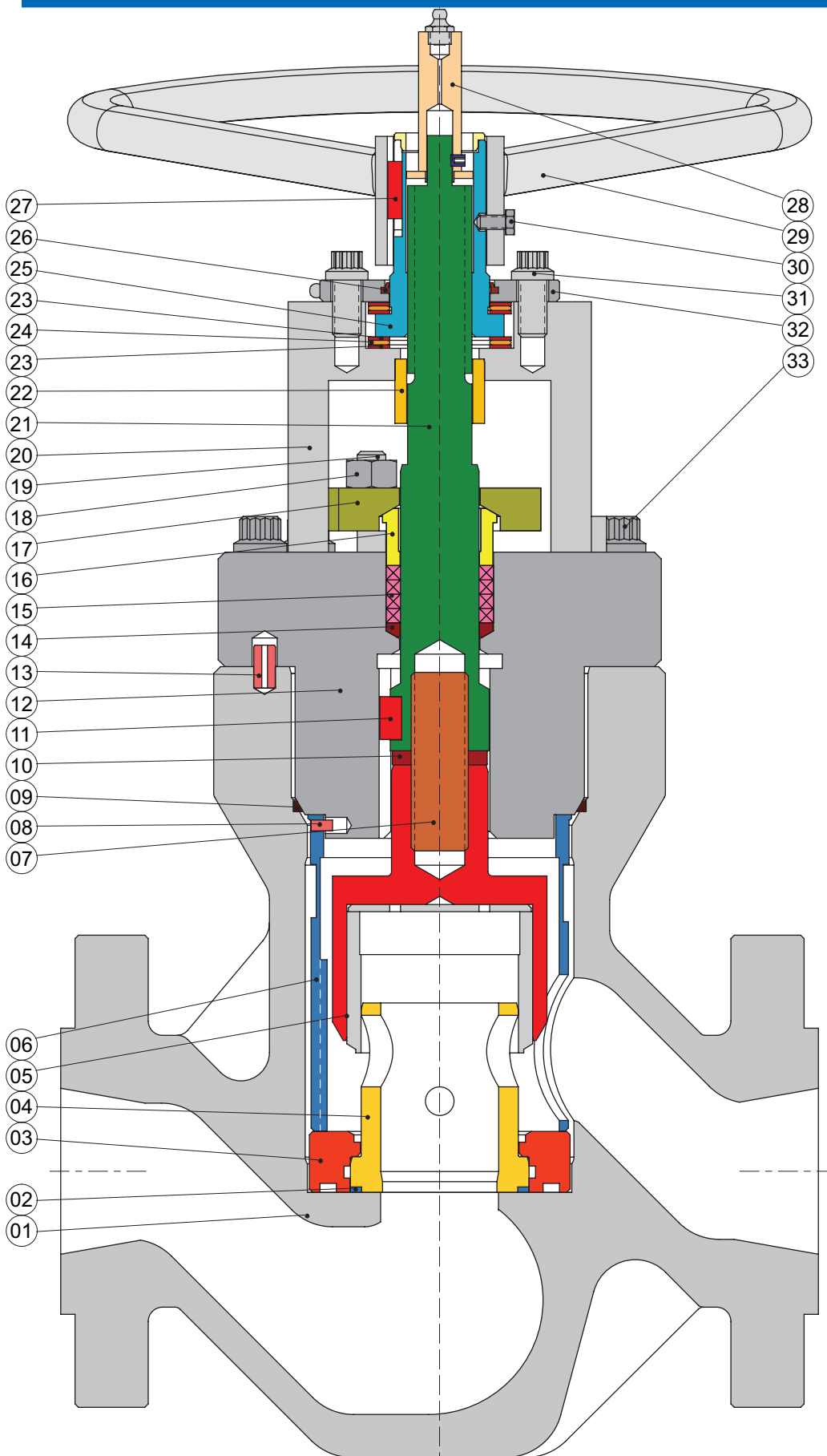
Other actuators available upon request.

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/Seat - Body
3. Seat
4. Cage
5. External Sleeve
6. Retaining Sleeve
7. Stud
8. Pin
9. Seal: Bonnet - Body
10. Lockwasher
11. Key
12. Bonnet
13. Pin
14. Packing Leader
15. Packing: Stem - Bonnet
16. Packing Follower
17. Packing Gland
18. Nut
19. Stud
20. Yoke
21. Stem
22. Yoke Sleeve
23. Thrust Washer
24. Thrust Bushing
25. Stem Nut
26. Wiper
27. Key
28. Calibration Head
29. Handwheel
30. Capscrew
31. Capscrew
32. Cover Plate
33. Capscrew

P3 Product Family

Standard:

- P3E - Bolted Bonnet; 6 000 PSI

Other Options:

- P3E 10k - Bolted Bonnet; 10 000 PSI
- P3E HT - Bolted Bonnet; 3 600 PSI;
High Temperature Service
- C3E - Bolted Bonnet; 3 600 PSI; Inline
- C3E HT - Bolted Bonnet; 3 600 PSI;
High-Temperature Service

chokes for all applications

recycle lines



manifold



vent valves



production



blow down

glycol injection

overboard dumps



subsea



level controllers

water injection

