

E P1E High-Temperature Choke 5CB

6 000 psig / Max Cv 14 / Max Bean Size 58

VALVE SPECIFICATIONS ▶

Valve Model	P1E HT
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)

Picture not available

TRIM OPTIONS ▶

	Standard Trim Cage & External Sleeve 2 Row / 4 Hole
Material	UNS S17400, Stellite
Application	Liquid, Gas, Multiphase
Cv	14
Turns	6
Travel	1.00"

STANDARD END CONNECTIONS ▶

Connection Size ▶	Standard Dimensions & Estimated Weights											
	1" Nominal				1-1/2" Nominal				2" 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	39	18	4.50	114	39	18	4.50	114	39	18
ASME 150 RF	6.69	170	41	19	6.94	176	47	21	7.00	178	48	22
ASME 300 RF	6.94	176	44	20	7.19	183	52	24	7.25	184	52	24
ASME 600 RF	7.19	183	44	20	7.50	191	55	25	7.62	194	56	25
ASME 600 RTJ	7.19	183	44	20	7.50	191	55	25	7.69	195	56	25
ASME 900 RF	7.62	194	53	24	8.00	203	66	30	8.75	222	84	38
ASME 900 RTJ	7.62	194	53	24	8.00	203	66	30	8.81	224	84	38
ASME 1500 RF	7.62	194	53	24	8.00	203	66	30	8.75	222	84	38
ASME 1500 RTJ	7.62	194	53	24	8.00	203	66	30	8.81	224	84	38
ASME 2500 RTJ	8.25	210	62	28	9.19	233	90	41	9.81	249	120	54
2 000 API 6B	-	-	-	-	-	-	-	-	7.69	195	56	25
3 000 API 6B	-	-	-	-	-	-	-	-	8.81	224	84	38
5 000 API 6B	-	-	-	-	-	-	-	-	8.81	224	84	38

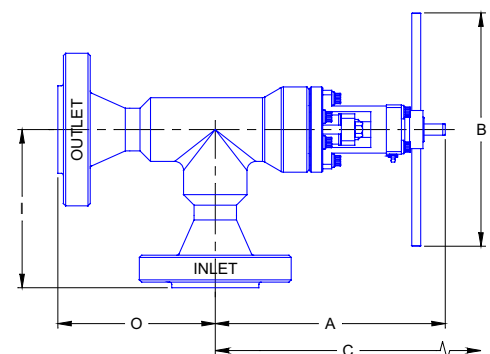
*Not API monogramable due to temperature range.

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	12.88	327
B	13.00	330
C	19.94	506

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 800F	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-Sour Service
Body	AISI 8620	AISI 316
Bonnet	ASTM A350 LF2 or AISI 4130	AISI 316
Stem	UNS S17400	UNS S17400
Bolting	ASTM A320 L7M	ASTM A320 L7M
Retaining Sleeve	ASTM A743 CF8M	ASTM A743 CF8M
Seals	Buna - N	Viton

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

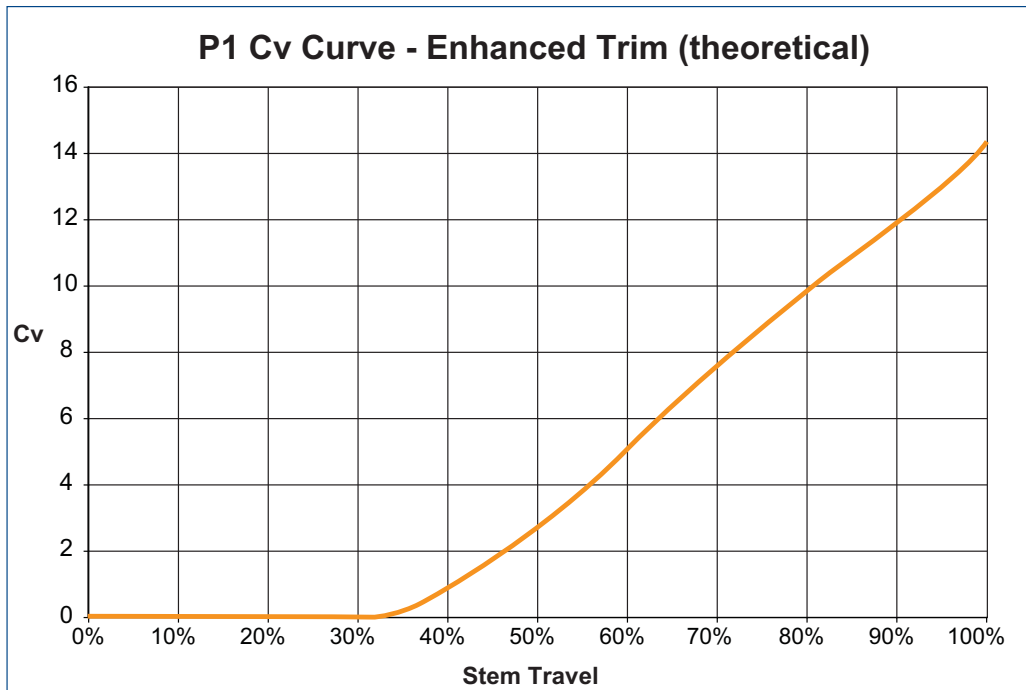
Some limitations may apply.

ACTUATION OPTIONS

Master Flo	Other
Manually Operated	Pneumatic Diaphragm

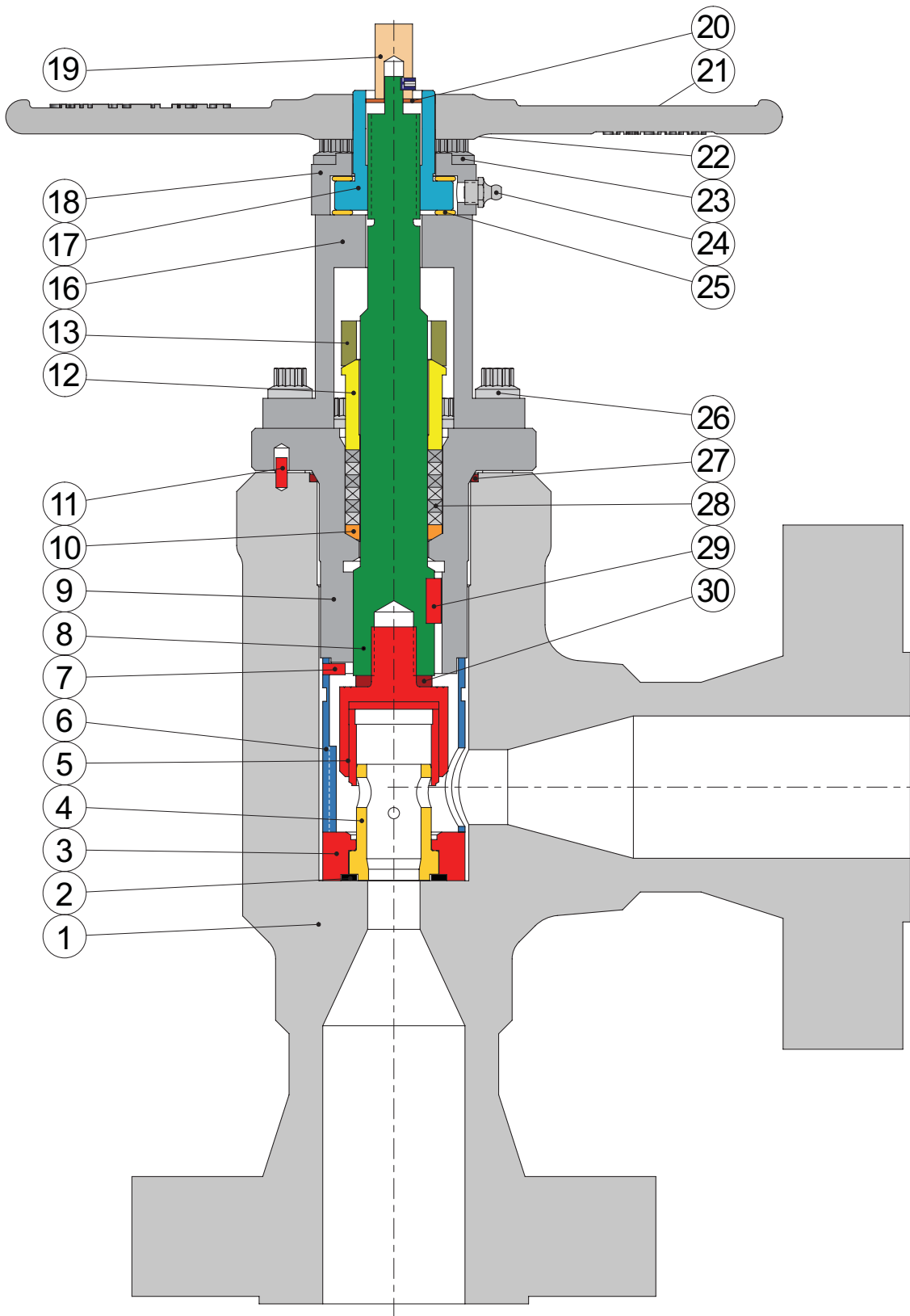
Actuators available upon request.

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. Seat
4. Cage
5. External Sleeve
6. Retaining Sleeve
7. Pin
8. Stem
9. Bonnet
10. Packing Leader
11. Pin
12. Packing Follower
13. Packing Gland
14. Nut (not visible)
15. Stud (not visible)
16. Yoke
17. Stem Nut
18. Cover Plate
19. Calibration Head
20. Stem Washer
21. Handle
22. Handle Ring
23. Capscrew
24. Grease Nipple
25. Thrust Washer
26. Capscrew
27. Seal: Bonnet - Body
28. Packing: Stem - Bonnet
29. Key
30. Lockwasher

P1E Product Family

Standard:

- P1E - Bolted Bonnet; 6 000 PSI

Other Options:

- P1E HT - Bolted Bonnet; 6 000 PSI; High-Temperature Service
- YP1E - Bolted Bonnet; 5 000 PSI; Y-Pattern Inline
- C1E - Bolted Bonnet; 3 600 PSI; Inline
- C1E HT - Bolted Bonnet; 3 600 PSI; Inline; High-Temperature Service

chokes for all applications

recycle lines



manifold



vent valves



production



blow down

glycol injection

overboard dumps



subsea



level controllers

water injection

