

E P6E Choke

6 000 psig / Max Cv 400 / Max Bean Size 304



VALVE SPECIFICATIONS ▶

Valve Model	P6E
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	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	Multistage Trim	High-Pressure Multi-stage Trim
Material	UNS S17400, Stellite, Tungsten Carbide	Stellite, Tungsten Carbide	Stellite, Tungsten Carbide
Application	Liquid, Gas, Multiphase; Abrasive	Liquid, Gas, Multiphase	Liquid, Gas, Multiphase
Cv	400	110	75
Turns	27	20	20
Travel	4.50"	3.35"	3.35"

STANDARD END CONNECTIONS ▶

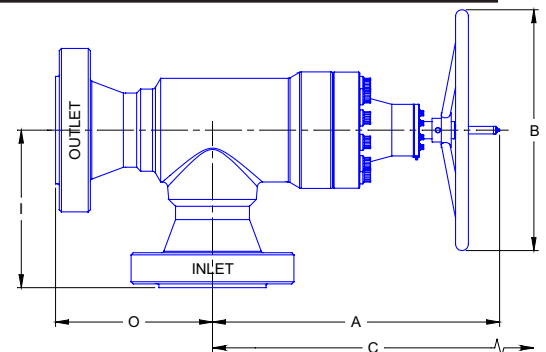
Connection Size ▶	Standard Dimensions & Estimated Weights							
	6" Nominal				8" Nominal			
	'I' or 'O'		Weight		'I' or 'O'		Weight	
Connection Type ▼	inch	mm	lbs.	kg	inch	mm	lbs.	kg
ASME 150 RF	13.00	330	835	379	13.50	343	867	394
ASME 300 RF	13.38	340	873	396	13.88	352	921	418
ASME 600 RF	14.38	365	929	422	15.00	381	1007	457
ASME 600 RTJ	14.44	368	929	422	15.06	383	1007	457
ASME 900 RF	15.25	387	1003	455	16.12	410	1157	525
ASME 900 RTJ	15.31	389	1003	455	16.12	410	1157	525
ASME 1500 RF	16.50	419	1111	504	18.12	460	1329	603
ASME 1500 RTJ	16.62	422	1111	504	18.31	465	1329	603
ASME 2500 RTJ	20.75	527	1539	699	22.56	573	1935	878
2 000 API 6B	14.44	367	929	422	15.06	383	1007	457
3 000 API 6B	15.31	389	1003	455	16.19	411	1157	525
5 000 API 6B	16.62	422	1111	504	18.31	465	1329	603

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	33.50	851
B	28.00	711
C	48.00	1219

Note: "C" is the disassembly clearance.



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
-20F to 400F	PSL-3	EE	EE	FF	EE	EE	FF	HH
LU -50F to 250F	STD / PSL-1	EE	EE	FF	EE	EE	FF	HH
	PSL-2	EE	EE	FF	EE	EE	FF	HH
	PSL-3	EE	EE	FF	EE	EE	FF	HH

	BB-General Service	EE-Sour Service	FF-Sour Service	HH-Sour Service
Body	AISI 8620	AISI 8620	UNS S31803	AISI 8620 / Inconel 625
Bonnet	AISI 4130	AISI 4130	AISI 4130 / UNS S31803	AISI 4130 / 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
Balance Sleeve	UNS S42400	UNS S42400	UNS S31803	Inconel 625
Seals	Buna - N	Viton	Viton	Teflon

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	-	1/2" NPT, API Autoclave

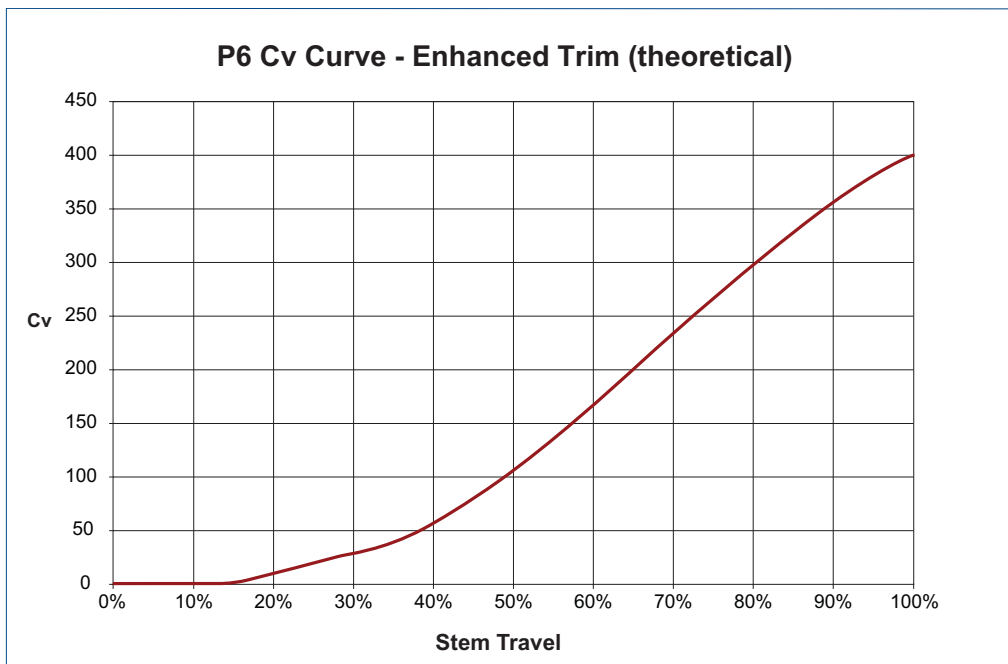
Some limitations may apply.

ACTUATION OPTIONS

Master Flo	Other
Manually Operated (Stemlock is optional)	Rotary Electric
Rotary Stepping (Pneumatic)	Electro-Hydraulic Piston
Rotary Stepping (Hydraulic)	
FC Hydraulic Piston	
Pneumatic Piston	

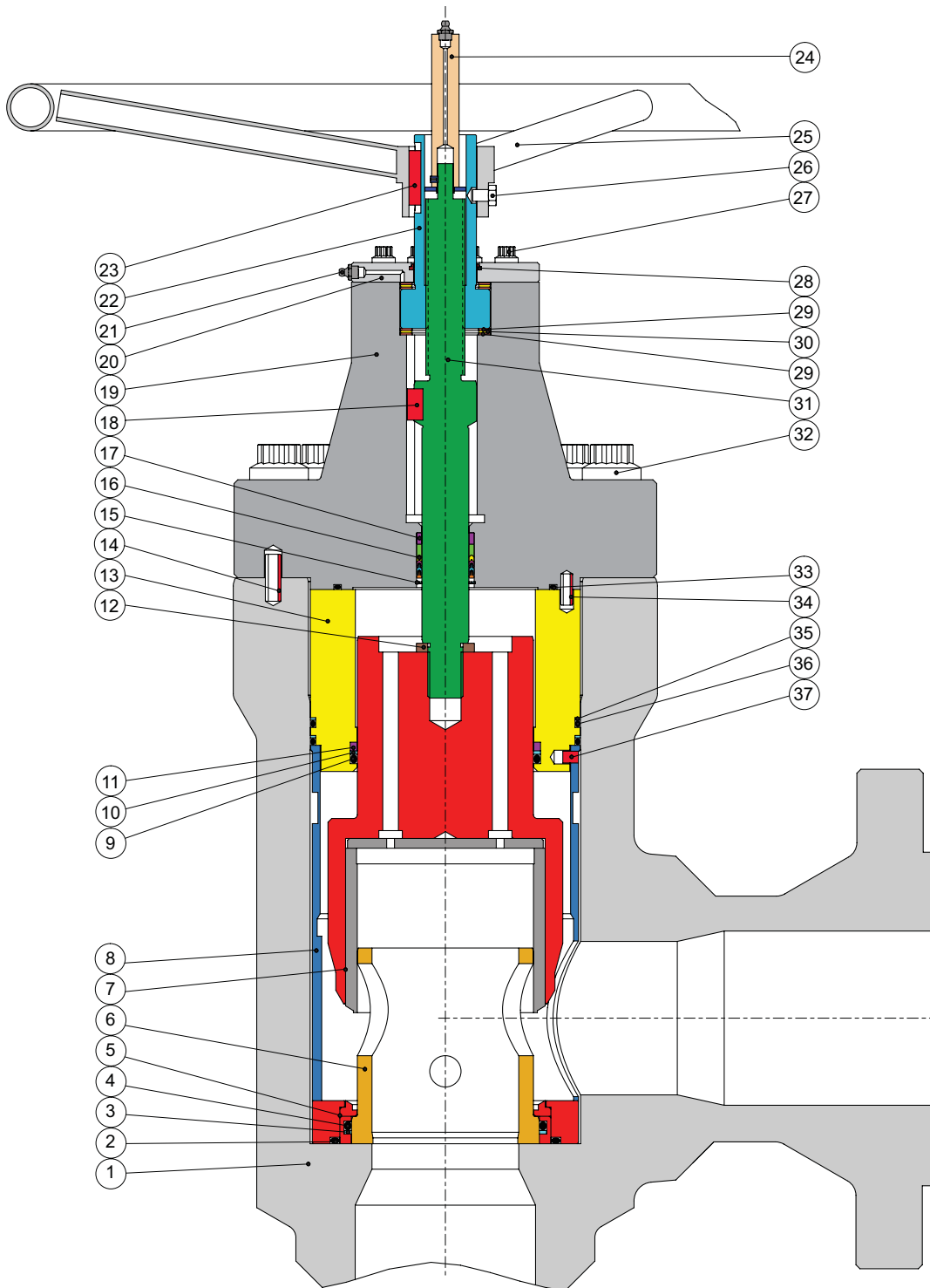
Other actuators available upon request.

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: Seat - Body
- 3. B/U Ring: Cage - Seat
- 4. Seal: Cage - Seat
- 5. Seat
- 6. Cage
- 7. External Sleeve
- 8. Retaining Sleeve
- 9. Seal: External Sl. - Balance Sl.
- 10. B/U Ring: External Sl. - Balance Sl.
- 11. External-Sleeve Bushing
- 12. Lockwasher
- 13. Balance Sleeve
- 14. Spring Pin
- 15. Retaining Ring
- 16. Seal Pack: Stem - Bonnet
- 17. Spacer
- 18. Key: Stem - Bonnet
- 19. Bonnet
- 20. Cover Plate
- 21. Grease Nipple
- 22. Stem Nut
- 23. Key
- 24. Calibration Head
- 25. Handwheel
- 26. Capscrew
- 27. Capscrew
- 28. Wiper
- 29. Thrust Washer
- 30. Thrust Bearing
- 31. Stem
- 32. Capscrew
- 33. Seal: Balance Sleeve - Bonnet
- 34. Spring Pin
- 35. B/U Ring: Balance Sleeve - Body
- 36. Seal: Balance Sleeve - Body
- 37. Pin

chokes
for all applications

recycle lines



vent valves



manifold



production



blow down

glycol injection

overboard dumps



subsea



level controllers

water injection



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