

CAM20-MT

2-in interchanger multitrim choke

MULTIPLE TRIM OPTIONS

- Needle and seat (N&S) (trim sizes: 0.50 in, 0.75 in, 1 in, and 1.25 in)
- External floating sleeve (FS)
- Positive bean/fixed orifice
- Plug & cage (P&C)

MULTIPLE ACTUATION OPTIONS

- Manual handwheel
- Electric actuation (extensive list of available features/specifications)
- Wired or SCADA wireless remote control
- Control and position-feedback via 4-20mA or multiple other protocols
- Further options of pneumatic or hydraulic actuation

OTHER SPECIFICATIONS

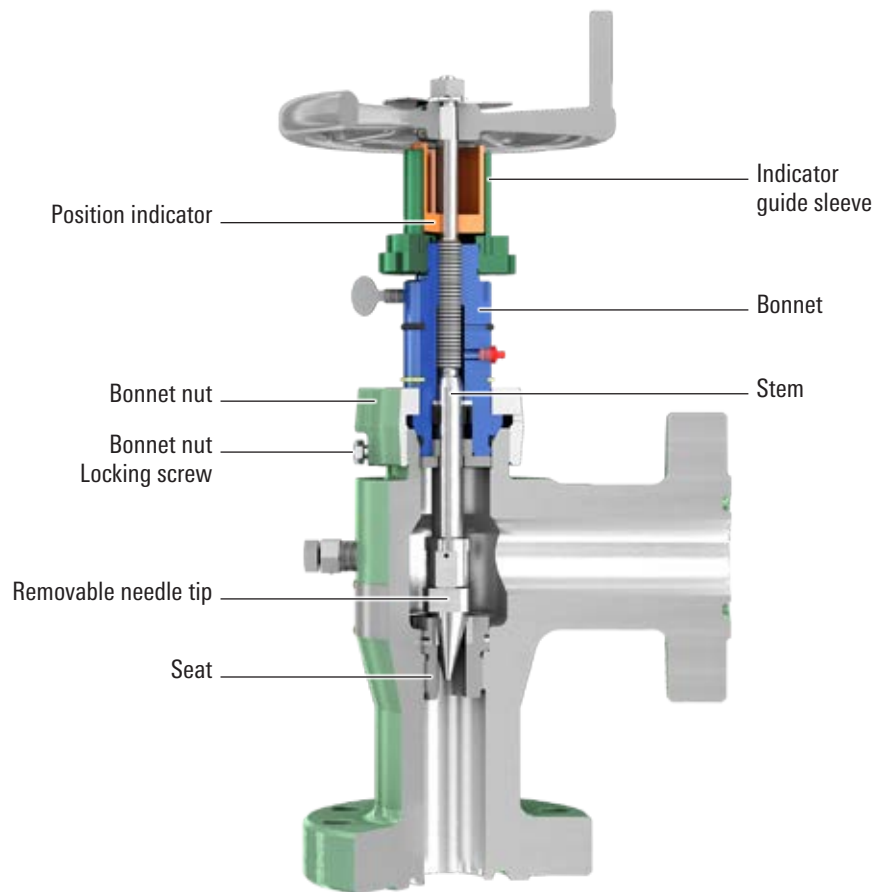
- Up to API 10K pressure rating as standard
- Standard flange/end connection options shown overleaf
- Common interface dimensions with H2 chokes
- Alternative end connections and dimensions also available
- API 6A material classes EE, FF and HH
- API 6A temperature classification over full range P-U
- Complete API 6A ANNEX F PR2 qualification

SPARES & MAINTENANCE

- Spares: trim kits, seal kits, replaceable needle tips
- Manual: actuation conversion kits
- N&S: FS 'cage trim' conversion kits
- Conversion from positive to adjustable, and vice versa

Based on our H2* needle-and-seat choke and control choke technologies, the CAM20-MT* choke offers several unique and innovative features. The CAM20-MT choke is a modular design, easily adapted for multiple trim types, and also to manual or actuated operation.

With the ability to easily configure this choke for multiple applications and evolving field conditions, the CAM20-MT choke is a 'one-stop' choke solution for the shales and beyond.



Replaceable needle tip



External floating sleeve

CAM20-MT

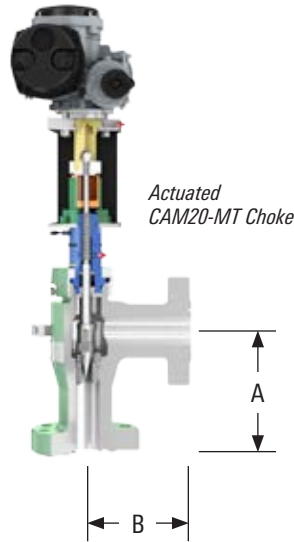
STANDARD TRIMS

Needle and seat (N&S)

- $\varnothing 1.25$ in — $^{80}_{64}$ ths — 44.5 C_v
- $\varnothing 1.00$ in — $^{64}_{64}$ ths — 28.5 C_v
- $\varnothing 0.75$ in — $^{48}_{64}$ ths — 16.0 C_v
- $\varnothing 0.50$ in — $^{32}_{64}$ ths — 7.1 C_v

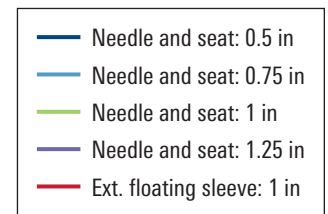
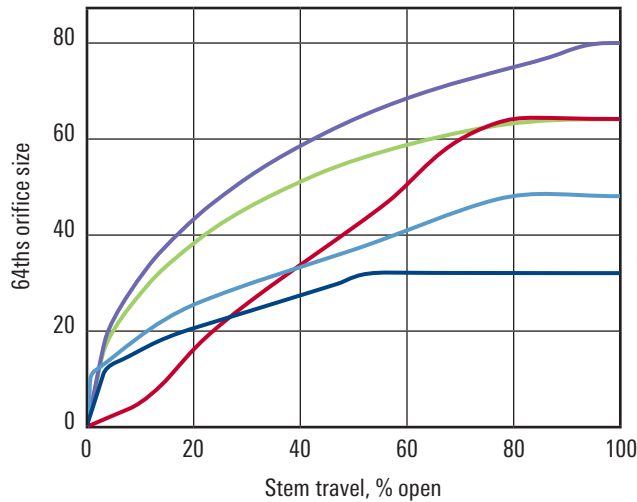
External floating sleeve (FS)

- $\varnothing 1.00$ in — $^{64}_{64}$ ths — 23.5 C_v

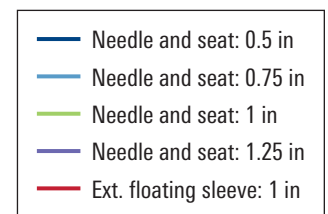
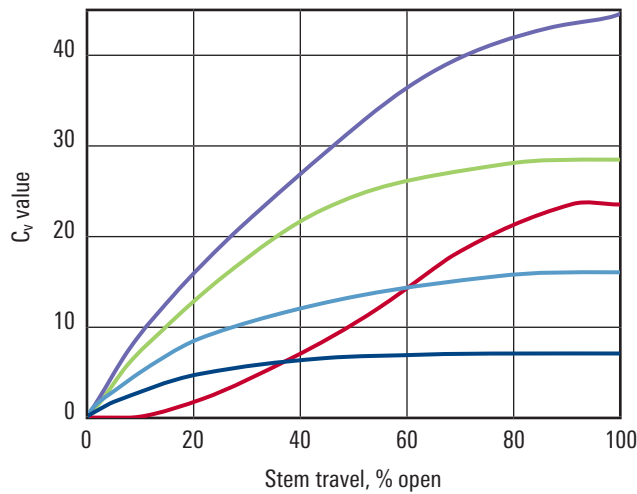


API Flanges Sizes, in		MWP, psig	Dimensions ± 0.12 in (3 mm)		Weight [†] , lb [kg] manual
Inlet	Outlet		A, in [mm]	B, in [mm]	
2 $\frac{1}{16}$ API 5K	2 $\frac{1}{16}$ API 5K	5,000	8 [203]	6 $\frac{7}{8}$ [175]	122 [55]
2 $\frac{9}{16}$ API 5K	2 $\frac{9}{16}$ API 5K	5,000	8 $\frac{1}{4}$ [210]	6 $\frac{15}{16}$ [176]	128 [58]
3 $\frac{1}{8}$ API 5K	3 $\frac{1}{8}$ API 5K	5,000	9 $\frac{9}{16}$ [243]	9 $\frac{11}{16}$ [246]	139 [63]
2 $\frac{1}{16}$ API 10K	2 $\frac{1}{16}$ API 10K	10,000	8 $\frac{13}{16}$ [224]	7 $\frac{11}{16}$ [195]	128 [58]
2 $\frac{9}{16}$ API 10K	2 $\frac{9}{16}$ API 10K	10,000	9 $\frac{9}{16}$ [237]	8 $\frac{3}{16}$ [208]	134 [61]
3 $\frac{1}{8}$ API 10K	3 $\frac{1}{8}$ API 10K	10,000	11 $\frac{5}{8}$ [295]	10 $\frac{11}{32}$ [263]	188 [85]

[†] Actuated choke weight is an estimated 53 lbs (24 kg) additional to the manual choke weight



64ths flow curves: CAM20-MT choke



C_v flow curves: CAM20-MT choke

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