



MCM OIL TOOLS

Q U A L I T Y • D E L I V E R Y • P R I C E

*Gate Valves for
Drilling &
Production*

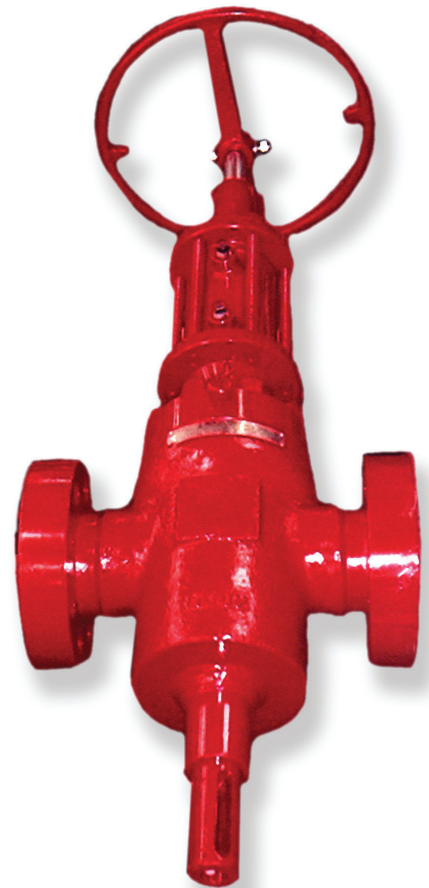
*Manual and
Hydraulic*

*Pressures up to
15,000 PSI for
Various Sizes*

*Meets or
Exceeds API 6A
Standards &
NACE
MR-01-75*

*Internal parts
are completely
interchangeable
with CIW*

Cameron® Style 'FLS' Gate Valve



- Manifolds
- Gate Valves
- Check Valves
- Chokes

10422 W. Gulf Bank Rd. • Houston, Texas 77040

Tel: 713-541-1212 • Fax: 713-541-4664

E-Mail: sales@mcmoiltools.com • Website: www.mcmoiltools.com

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MCM FLS is a full-bore, through conduit gate valve available in operating pressure of 5,000 psi to 15,000 psi and bore sizes 2-1/16" - 4-1/16". The MCM Cameron Style Type 'FLS' Gate Valve has bi-directional sealing and none rising stem making it ideal for drilling, choke and kill manifolds, x-mas tress and severe service applications.

- Metal-to-Metal Sealing
- Floating slab gate and One-piece floating seats ensure sealing performance.
- Bi-directional Sealing
- Stem BackSeat
- PTFE or PEEK Spring-energized Stem Packing
- PTFE or PEEK Spring-Energized Seat Seals
- A wide range of body and trim material is available to meet various operation conditions.
- Easily equipped with hydraulic Actuators with for kill line, choke line or x-mas tree.
- MEETS OR EXCEEDS API 6A STANDARDS.



API 6A Material Classification	Body & Bonnet Material	Stem	Gate	Seat
AA-General Service	Low alloy steel	AISI 4130	AISI 4130 nitrided	AISI 410 SS
BB-General Service	Low alloy steel	AISI 410 SS	AISI 410 nitrided	AISI 410 SS
CC-General Service	AISI 410 SS	AISI 410 SS	AISI 410 nitrided	AISI 410 SS
DD-Sour Service	Low alloy steel	AISI 410 SS	AISI 4130 hard-faced	410/TC
DD-NL Sour Service-Super Trim	Low alloy steel	*NITRONIC 50	AISI 4130 hard-faced	410/TC
EE-Sour Service	Low alloy steel	AISI 410 SS	AISI 410 hard-faced	410/TC
EE-NL Sour Service-Super Trim	Low alloy steel	*NITRONIC 50	AISI 410 hard-faced	410/TC

As defined by NACE Standards MR-01-75

Notes: Specifications are subject to change without notice. Special trims are available upon request.

*INCONEL 718 STEM AVAILABLE
UPON REQUEST

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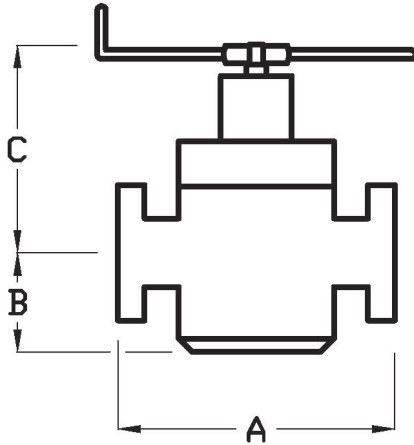
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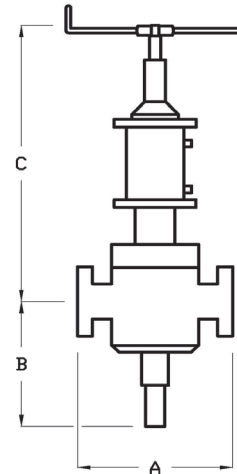
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C A M E R O N[®] F L S S T Y L E

GATE VALVE DIMENSIONS



MANUAL



HYDRAULIC

API 5,000 PSI	2-1/16"	3-1/8"	4-1/16"
A FLANGED	14-5/8"	18-5/8"	21-5/8"
B & C (MANUAL)	23"	26-7/16"	31-1/8"
B & C (HYDRAULIC)	45"	45"	59-3/4"
WEIGHT (manual only)	175 lbs.	360 lbs.	545 lbs.
WEIGHT (Hydraulic only)	325 lbs	495 lbs	730 lbs

API 10,000 PSI	2-1/16"	3-1/16"	4-1/16"
A FLANGED	20-1/2"	24-3/8"	26-3/8"
B & C (MANUAL)	23-1/4"	26-1/18"	31"
B & C (HYDRAULIC)	45"	54-1/8"	63-3/4"
WEIGHT (manual only)	275 lbs.	480 lbs.	1,057 lbs.
WEIGHT (Hydraulic only)	409 lbs	654 lbs	1,079 lbs

API 15,000 PSI	2-1/16"	3-1/16"	
A FLANGED	19"	23-9/16"	
B & C (MANUAL)	23-1/2"	31-7/16"	
B & C (HYDRAULIC)	49-7/16"	70-3/16"	
WEIGHT (manual only)	350 lbs.	1065 lbs.	
WEIGHT (Hydraulic only)	477 lbs	1,250 lbs	

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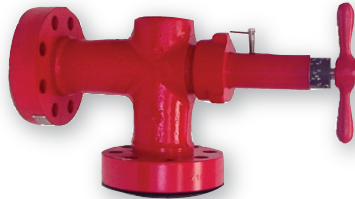
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GATE VALVES

CAMERON® STYLE 'FC' & 'FLS' TYPE



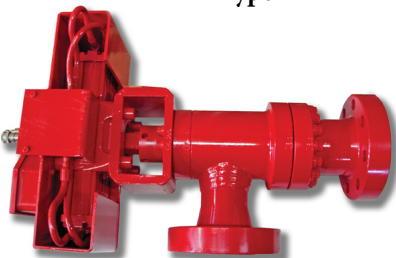
MANUAL CHOKE
CAMERON® STYLE 'H2' TYPE



CAMERON® Type U Packers
&
Top Seals



Back Pressure Valve
Cameron® Style "H & HM"
Type



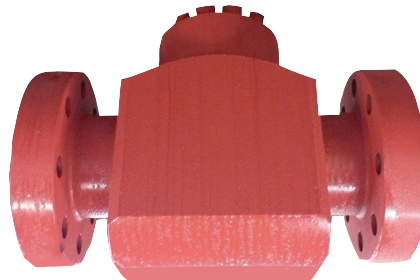
SWACO® CHOKE



HYDRAULIC DRILLING CHOKE
CAMERON® STYLE



CONTROL PANEL



'MS' STYLE CHECK VALVE
CAMERON® STYLE



CHECK VALVE
CAMERON® STYLE 'R' TYPE

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