

Product Overview



MASTER FLO

The leader in choke technology™

Master Flo Valve Inc.

Master Flo Valve Inc. is the technological leader and world-class manufacturer of surface and subsea chokes, specialty control valves and supporting actuation.

Privately-owned, proudly independent, and upholding a vision of excellence, our company structure offers the flexibility to adapt to ever-evolving market needs and developments, quickly and efficiently, providing you with the level of commitment you expect from a critical component supplier.

Since 1979, our goal has been to design and produce the highest quality chokes and control valves available in the industry, only equalled by our innovative engineering, creative R&D and outstanding quality assurance programs supporting the complete Master Flo product offering.

From our Edmonton facility of over 80,000 square feet located on 8 acres of land, we house in a single location our Engineering, Manufacturing and Research & Development teams, Aftermarket support group and facilities.

Our world-class facility embodies our commitment to product development and manufacturing excellence, playing a key role in our ability to maintain our position as the industry leader in choke technology.

Complemented by a global network of sales locations and service centers, Master Flo is positioned better than ever to support your local operations, wherever you are.

More than ever, the leading designs and material technologies utilized in the conception of our chokes are available to resolve your most demanding choke applications.

When uptime is your main concern, you can turn to Master Flo, the leader in choke technology, for optimum performance and lower cost of ownership.



Head Office
Edmonton, Canada



SURFACE CHOKES

Production Chokes

- oil production
- gas production
- heavy oil production
- bitumen production
- water injection
- gas injection
- gas lift
- blow down
- vent valves
- steam service
- HP/HT
- well clean-up
- test manifolds



production chokes



HPHT applications



injection



high temperature
up to 850°



high controllability
hydraulic system



erosive service



large bore chokes

CONTROL VALVES

Process Control Service

- high - ΔP applications
- cavitation solutions
- erosive service
- critical shut-off applications
- high temperature
- optional connections
- line pipe

Features

- equal percentage flow trim
- low noise
- high pressure drop
- multi-stage trim
- custom trims for application
- class V shut-off, independent from throttling



stepping actuation



manual



high temperature



pneumatic piston actuation



socket or threaded connections



pneumatic diaphragm actuation

ACTUATION

Pneumatic solutions

- piston type (DA/SR)
- diaphragm type
- stepping type

Hydraulic solutions

- piston type (DA/SR)
- stepping type
- surface or subsea designs

Electric solutions

- all voltages
- subsea service
- surface service
- solar-powered
- electro hydraulic



pneumatic
diaphragm
actuator



stepping actuator



linear hydraulic
actuator



pneumatic
piston actuator



electric actuator

SUBSEA CHOKES



bolted bonnet
choke



diver insert
retrievable

Subsea choke valves

- non-retrievable bolted bonnet
- diver insert retrievable
- ROV-Operated

Actuated subsea choke valves

- non-retrievable bolted bonnet
- diver insert retrievable
- HRV insert retrievable

Features

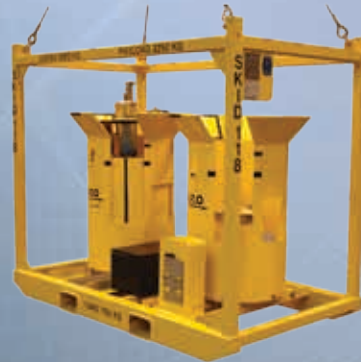
- qualified to 18,000 feet water depth
- qualified to 15,000 PSI
- qualified to 350°F



HRV running
tool



electric
actuator



HRV test &
transport skid



HRV insert
retrievable



P10 choke



linear
actuation



fast operating
module

	1	1.5	2	2.5	3	4	5	6	8	10	12	Threaded	ANSI	API	Clamped	Hammer Union End	Compact Flange	Studded	Interchangeable	Non-Standard	ASME 150 RF	ASME 300 RF	ASME 600 RF	ASME 600 RTJ	ASME 900 RF	ASME 900 RTJ	ASME 1500 RF	ASME 1500 RTJ	ASME 2500 RTJ	2 000 API 6B	3 000 API 6B	5 000 API 6B	10 000 API 6BX	15 000 API 6BX	20 000 API 6BX	
C1	✓											✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
C2			✓									✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
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C3				✓	✓							✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
C4					✓	✓						✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
P1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
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P35					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
P4						✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
P5							✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
P6								✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
P8									✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
P10										✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Rotary Stepping (Pneumatic)

Rotary Stepping (Hydraulic)

FC Hydraulic Piston

Pneumatic Piston

Pneumatic Diaphragm

Rotary Electric

Electro-Hydraulic Piston

Solar-Powered

AA - General Service

BB - General Service

CC - General Service

DD - Sour Service

EE - Sour Service

FF - Sour Service

HH - Sour Service

PU - -20°F to 250°F (-29°C to 121°C)

LU - -50°F to 250°F (-46°C to 120°C)

PX - -20°F to 350°F (-29°C to 117°C) *

LX - -50°F to 350°F (-46°C to 117°C) *

-20°F to 400°F (-29°C to 204°C) *

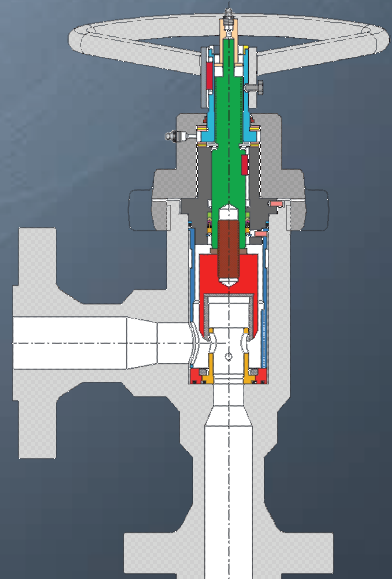
-20°F to 750°F (-29°C to 399°C) *

-20°F to 850°F (-29°C to 454°C) *

Y - -20°F to 650°F (-29°C to 343°C) *

	Actuation available							API - 6A Material Class Designations				Temperature Class																										
C1			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
C2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
C25	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
C3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
C4	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
P1			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
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P25	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
P3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
P35	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
P4	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
P5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
P6	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
P8	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
P10	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

- ✓ - option available
- ✓ - consult factory
- * - API or ASME pressure derations apply



All information in this brochure is accurate at time of printing.
 Master Flo Valve™ reserves the right to change any information without notice.
 Please consult factory for latest product info.

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