TruMotion™ Technology Series

High Flow, Surface Mount Regulator

aerospace
climate control
electromechanical
filtration
fluid & gas handling
hydraulics
pneumatics
process control
sealing & shielding

Customer Value Proposition:

The TruMotion™ Technology is your direct path to high performance pressure regulation. The TruMotion™ Technology is a unique patent pending poppet design that minimizes seat wear resulting in superior creep performance over the life of the regulator.

The TruMotion™ regulator is designed to meet a variety of ultra-high purity applications in semiconductor, solar and TFT-LCD process equipment.

Contact Information:

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Veriflo Division
250 Canal Blvd
Richmond, California 94804

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veriflo.sales@parker.com

www.parker.com/veriflo

Product Features:

- Exceptional pressure control at high flow rates.
- Designed for high flow applications.
- Unique patent pending poppet design.
- SST filter screen standard with all models
- Maintains constant outlet pressure at zero flow conditions.
- Eliminates seat wear in high flow applications for superior cycle life.

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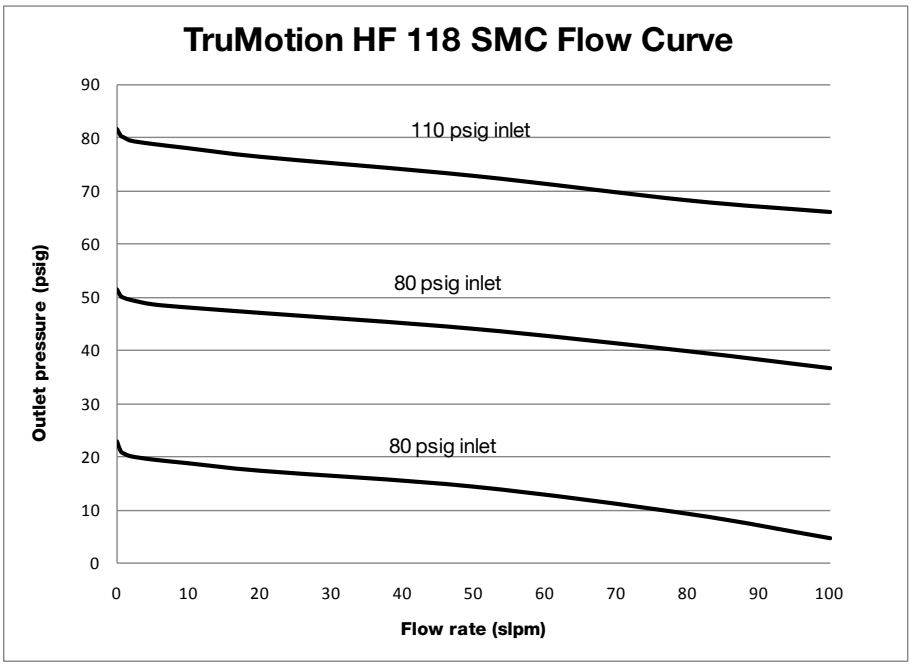
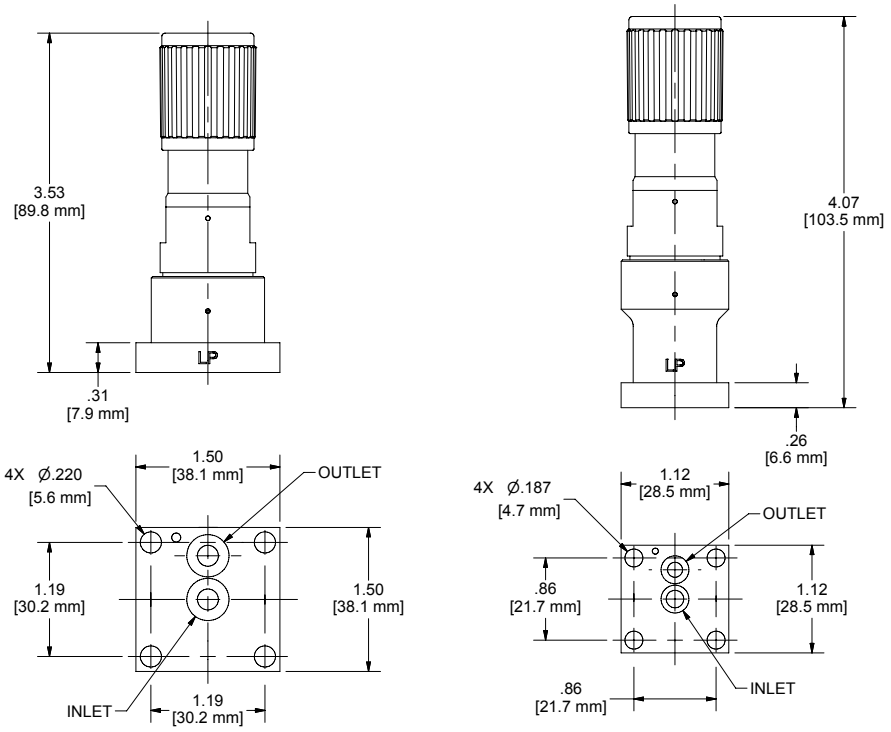
TruMotion™ Technology Series

Flow Curve



Dimensional Drawing



1-1/2” High Flow C-SEAL (11) **1-1/8” High Flow C-SEAL (10)**

Safety Guide and Installation and Operating Instructions available at
www.parker.com/veriflo

TruMotion™ Technology Series

Ordering Information

Build a TruMotion™ Technology Series regulator by replacing the numbered symbols with an option from the corresponding tables below.

Note: Options in blue type are Non-Standard.

	1	2	3	4
Sample:	**TMHF**	**118**	**2**	**SMC10**
Finished Order:	**TMHF**	**118**	**2**	**SMC10**

1 Basic Series

TMHF = TruMotion™ High Flow

2 Base Size

118 = 1-1/8” interface
150 = 1-1/2” interface

3 Range

1 = 30 psig
2 = 60 psig
3 = 100 psig

4 Surface Mount Porting

SMC10 = C-Seal, 2 Ports
SMC11 = C-Seal, 2 Ports, High Flow Seal
SMW60 = W-Seal

TruMotion™ Technology Series

Specifications

Materials of Construction	
Wetted	
Body	VeriClean™ 316L Stainless Steel
Compression Member	VeriClean™ 316L Stainless Steel
Diaphragm	Hastelloy C-22®
Spring Cup	316L Stainless Steel
Valve Seat	316L Stainless Steel
Poppet	316L Stainless Steel
Gasket	PTFE
Seat	FFKM
Screen	316L Stainless Steel
Non-wetted	
Cap	Stainless Steel
Knob	ABS (Gray)
Operating Conditions	
Maximum Inlet	250 psig (.07-2 barg)
Outlet	1 - 30 psig (.07 - 2 barg) 2 - 60 psig (.14 - 4 barg) 3 - 100 psig (.20 - 7 barg)
Temperature	-40°F to 150°F (-40°C to 66°C)

For additional information on materials of construction, functional performance and operating conditions, please contact factory.

Functional Performance	
Design	
Burst Pressure	750 psig (52 barg)
Proof Pressure	375 psig (26 barg)
Leak Rate	Inboard Test Method
Internal	≤2 x 10^{-7} cc/sec He
External	≤2 x 10^{-10} cc/sec He
Internal Volume	1.75 cc
Approx. Weight	0.6 lbs. (0.3 kg)
Standard Ra	10 micro inch

LitPN: 25000274 Date of Issue 08/2011

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