



QuantumFlo™
an exponential leap in pump technology

[The **Atom**: Variable Speed Simplex Micro Booster Pump]

The Atom Series features a micro VFD controlled stainless steel pump, braided stainless steel flex hose and CPVC fittings all packaged in a diminutive 18" x 25" x 30" package.

- » Multiple Input Voltages 115/230/1; 208/460/3
- » Threaded Suction and Discharge Connections
- » Factory Tested And Pre-Set to Site Conditions
- » Silent Check Valve with Resilient Seat
- » Proven Ashcroft Pressure Transmitter and Gauge
- » Variable Speed Drive Control—No PRV's
- » 304 SS Pump with TEFC IP-55 Motor
- » CPVC Fittings Allows For Warmer Water (140°F)
- » Simple "Plug & Play" Operation



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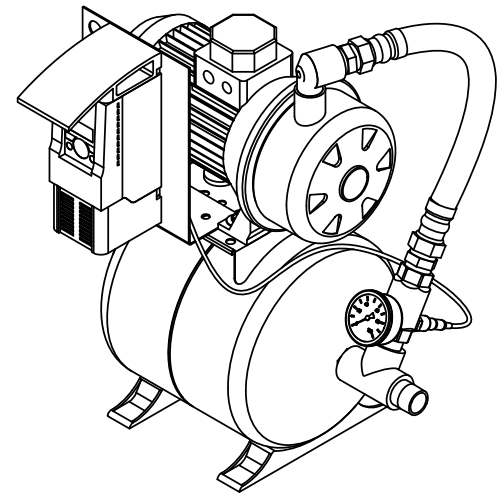
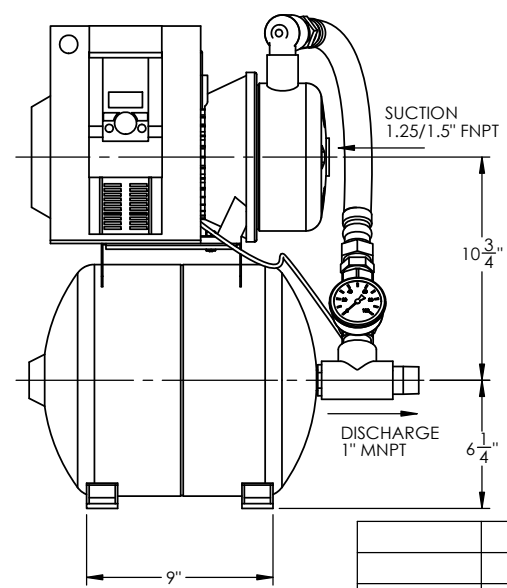
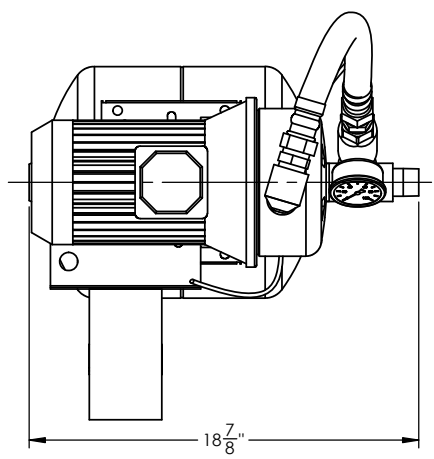
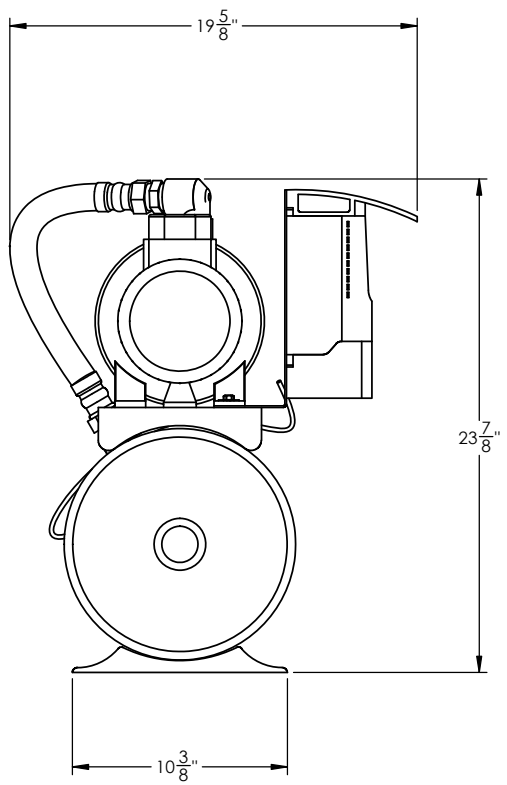
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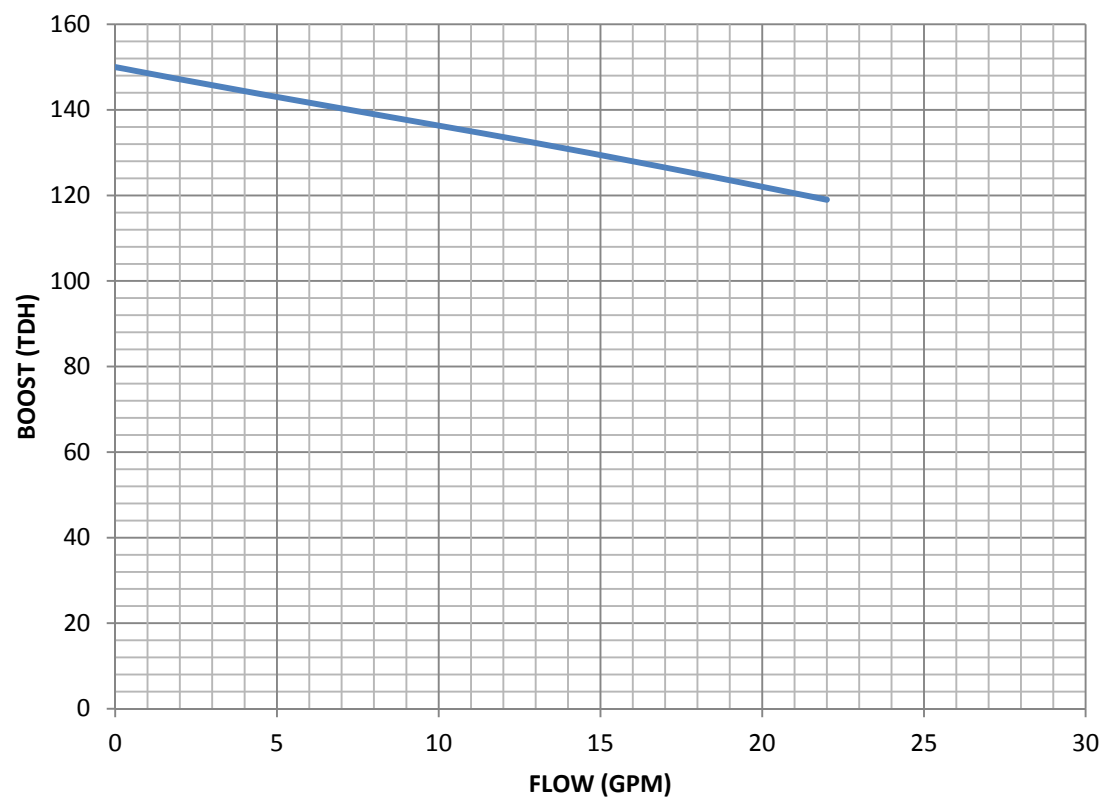
PROPRIETARY AND CONFIDENTIAL
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		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	 TITLE: SUBMITTAL DRAWING ATOM SYSTEM	
		DIMENSIONS ARE IN INCHES	DRAWN	N. FRIES	9/1/16		
		TOLERANCES:	CHECKED				
		FRACTIONAL $\pm 1/4"$	ENG APPR.				
		ANGULAR: MACH \pm BEND \pm	MFG APPR.				
		TWO PLACE DECIMAL \pm	Q.A.			SIZE	DWG. NO.
		THREE PLACE DECIMAL \pm	COMMENTS:			B	REV
		INTERPRET GEOMETRIC TOLERANCING PER:				SCALE: 1:8	SHEET 1 OF 1
		MATERIAL					
		FINISH					
NEXT ASSY	USED ON						
		APPLICATION					
		DO NOT SCALE DRAWING					

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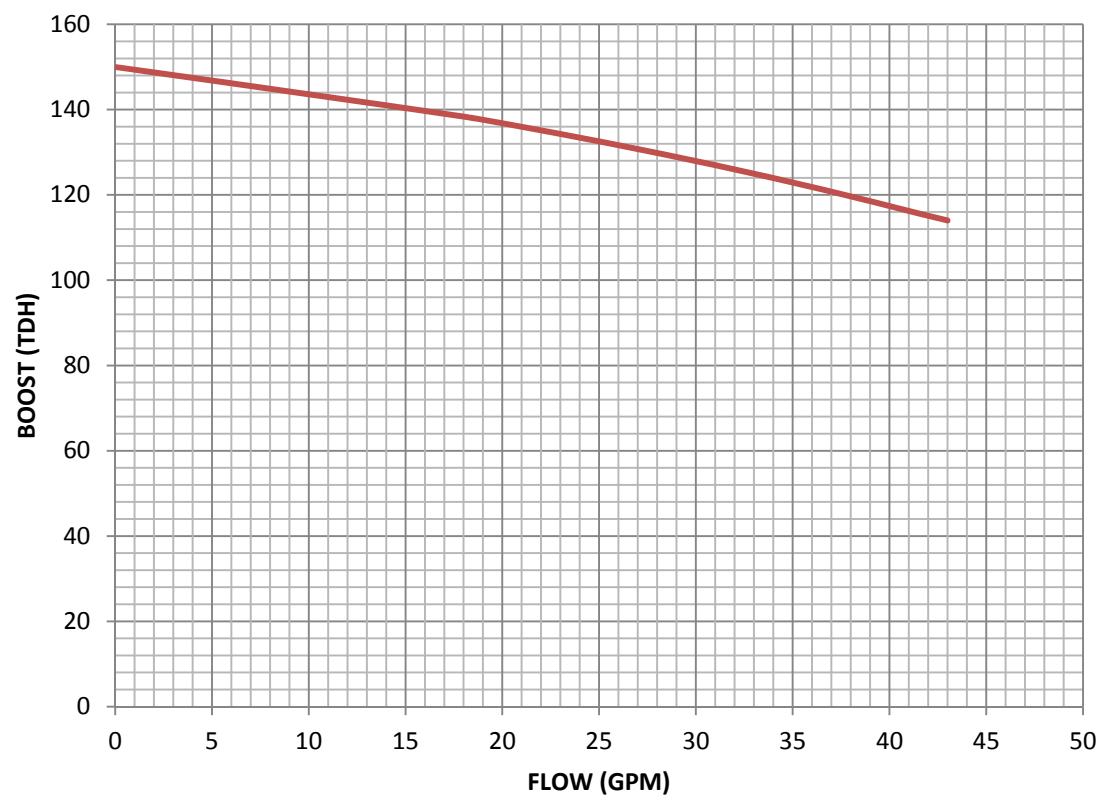
PERFORMANCE CURVE

QFA 70/156



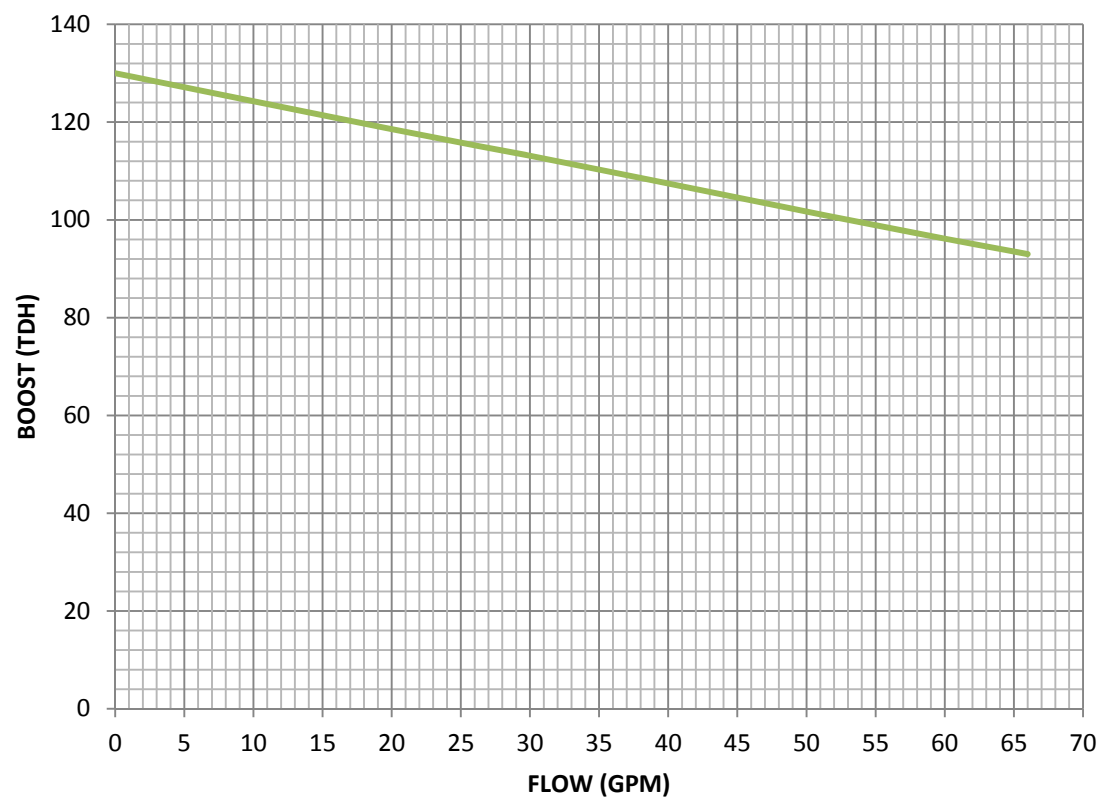
PERFORMANCE CURVE

QFA 120/206



PERFORMANCE CURVE

QFA 200/306



CENTRIFUGAL PUMPS

TECHNICAL DATA

PUMP

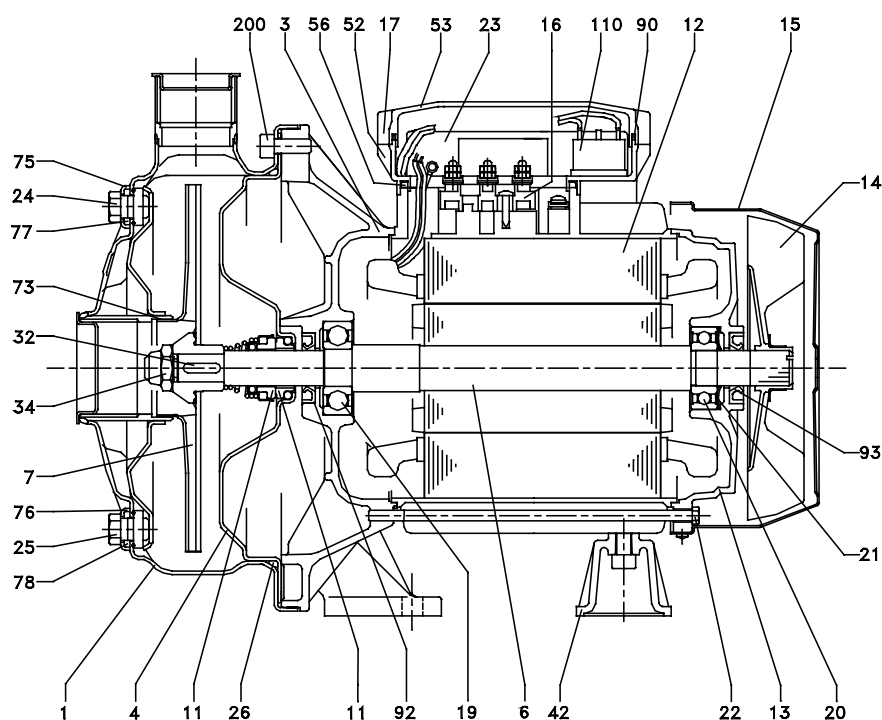
Liquid Handled	Type of Liquid	Clean Water
	Max Temperature [°F]	140
Maximum Working Pressure	[PSI]	116
Construction	Impeller	Closed Centrifugal Type
	Shaft Seal Type	Mechanical Seal
	Bearing	Sealed Ball Bearing
Pipe Connection	Suction [inch]	1-1/4" NPT (70,120) 1-1/2" NPT (200)
	Discharge [inch]	1" NPT
Material	Casing	AISI 304 SS
	Impeller	AISI 304 SS
	Casing Cover	AISI 304 SS
	Shaft Seal	Ceramic/Carbon/NBR
	Shaft	AISI 303 SS
	Bracket	Aluminum
Applicable Standard of Test		ISO 9906 grade 2

MOTOR

Type			Electric - TEFC Three Phase			
No. of Poles			2			
Synchronous Speed [RPM]			3600			
Insulation Class			F			
Protection Degree			IP 55			
Frequency [Hz]			60			
Voltage [V]			230/460 ± 10%			
Casing Material			Aluminum			
Base Material/Motor Support			Aluminum			
Three Phase 230/460 V 60 Hz	kW	HP	Ball Bearing		Full Load Current (A)	
			Pump Side	Fan Side	230V	460V
CDX 70/156	1.1	1.5	6203 ZZ	6202 ZZ	4.5	2.6
CDX 120/206	1.5	2	6204 ZZ	6203 ZZ	6.9	4.0
CDX 200/306	2.2	3	6204 ZZ	6203 ZZ	8.2	4.7

CENTRIFUGAL PUMPS

CONSTRUCTION

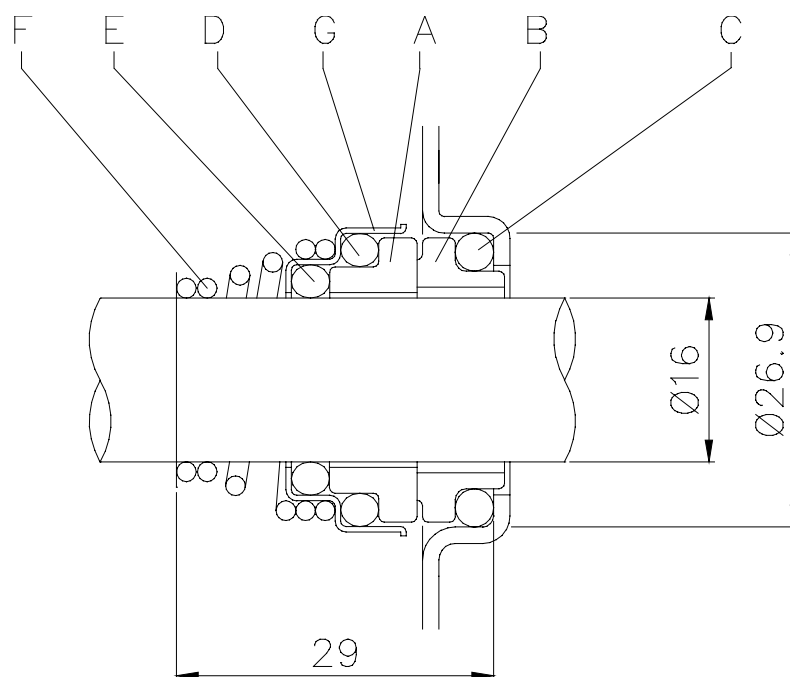


N°	PART NAME	MATERIAL	Q.TY	N°	PART NAME	MATERIAL	Q.TY
1	Casing	AISI 304	1	25	Drain plug	AISI 303	1
3	Motor bracket	Aluminium	1	26	O-ring [3]	NBR	1
4	Casing cover	AISI 304	1	32	Key	AISI 304	1
6	Shaft with rotor	AISI 303 (Part in contact with liquid)	1	34	Impeller nut	AISI 304	1
7	Impeller	AISI 304	1	42	Motor support	Aluminium	1
11	Mechanical seal [3] - [4]	Carbon/Ceramic/NBR	1	52	Terminal box [1]	Polypropylene	1
12	Motor frame with stator	-	1	53	Terminal box cover [1]	Polypropylene	1
13	Motor cover	Aluminium	1	56	Box gasket	NBR	1
14	Fan	Polypropilene	1	73	Casing ring [3] [5]	NBR	1
15	Fan cover	Fe P04 Zinked	1	75	Washer	AISI 304	1
16	Terminal board	-	1	76	Washer	AISI 304	1
17	Terminal box cover [2]	Aluminium	1	77	O-ring [3]	NBR	1
19	Pump side ball bearing	-	1	78	O-ring [3]	NBR	1
20	Fan side ball bearing	-	1	90	Cover gasket [1]	NBR	1
21	Adjusting ring	Steel C70	1	92	Lip seal	-	1
22	Tie rod	Fe 420 Zinked	4	93	Lip seal	-	1
23	Capacitor [1]	-	1	110	Protector [1]	-	1
24	Priming plug	AISI 303	1	200	Screw	Stainless steel A2 UNI7323	8

- [1] Only for single phase
- [2] Only for three phase
- [3] VITON® for CDXH
- [4] Special version , see page 301
- [5] AISI 304 for CDX 70

CENTRIFUGAL PUMPS

CONSTRUCTION



REF	PART NAME	MATERIAL		
		Standard version (CDX)	Hot water version (CDXH)	Optional
A	Rotary seal ring	Ceramic	Ceramic	Silicon carbide
B	Stationary seal ring	Carbon graphite	Carbon graphite	Silicon carbide
C	O Ring	NBR	VITON [®]	VITON [®]
D	O Ring	NBR	VITON [®]	VITON [®]
E	O Ring	NBR	VITON [®]	VITON [®]
F	Self driving spring	AISI 316	AISI 316	AISI 316
G	Frame	AISI 304	AISI 304	AISI 316

M-Max Series Drives for Machinery Applications

36



Product Description

Eaton's M-Max™ Series Sensorless Vector Adjustable Frequency AC Drives are the next generation of drives specifically engineered for today's machinery applications. These micro-processor-based drives have standard features that can be programmed to tailor the drive's performance to suit a wide variety of application requirements. The M-Max product line uses a 32-bit microprocessor and insulated gate bipolar transistors (IGBTs) that provide quiet motor operation, high motor efficiency, and smooth low-speed performance. The size and simplicity of the M-Max make it ideal for hassle-free installation. Models rated at 575 volts, three-phase, 50/60 Hz are available in sizes ranging from 1 to 7-1/2 hp. Models rated at 480 volts, three-phase, 50/60 Hz are available in sizes ranging from 1/2 to 10 hp. Models rated at 240 volts, single- or three-phase, 50/60 Hz are available in sizes ranging from 1/4 to 3 hp. Models rated at 115 volts, single-phase, 50/60 Hz are available in the 1/4 to 1-1/2 hp size range.

The standard drive includes a digital display, and operating and programming keys on a visually appealing, efficient application programming interface. The display provides drive monitoring, as well as adjustment and diagnostic information. The keys are used for digital adjustment and programming of the drive, as well as for operator control. Separate terminal blocks for control and power wiring are provided for customer connections.

Contents

Description

Description	Page
M-Max Series Adjustable Frequency AC Drive	
Catalog Number Selection	V6-T36-9
Product Selection	V6-T36-9
Accessories	V6-T36-10
Technical Data and Specifications	V6-T36-11
Dimensions	V6-T36-13

Features

- Ease of use—preset application macros, startup wizard, diagnostic capabilities
- Compact, space-saving design
- Rugged and reliable—150% for one minute, 50C rated, conformal coated boards
- DIN rail and screw mountable
- Side-by-side installation
- Industry leading efficiency delivers energy savings to the customer
- Integrated EMC filters make the unit suitable for commercial and industrial networks
- Available in the enclosure class IP20 as standard, options for IP21 and NEMA® 1
- Brake chopper as standard in three-phase, applications of frames 2 (FS2) and larger
- Temperature-controlled fan
- RS-485/Modbus® as standard
- PID controller as standard
- Several fieldbus options

Standards and Certifications

Product

- Complies with EN61800-3 (2004)

Safety^①

- 61800-5-1
- EN60204-1
- CE
- UL
- cUL
- IEC
- RoHS compliant

EMC (At Default Settings)

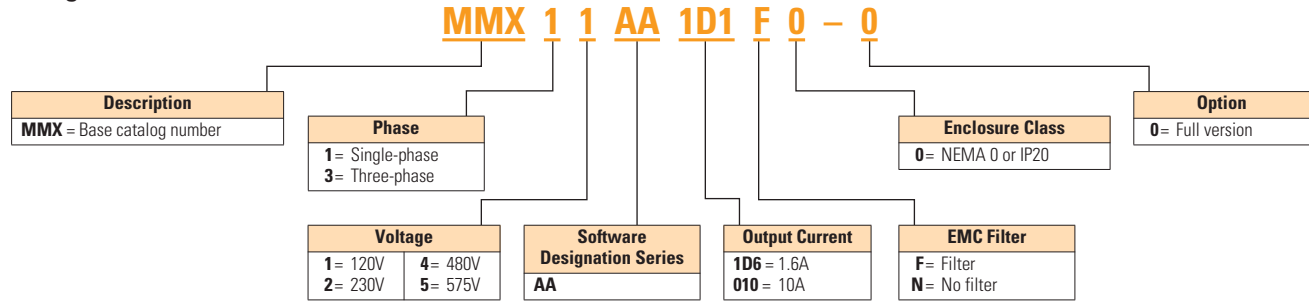
- EMC Category C2, C3, and C4 (Level H): With an internal RFI filter option

Note

^① See unit nameplate for more detailed approvals.



Catalog Number Selection



Product Selection

M-Max

M-Max Basic Controller



hp ^①	Volts ^②	100% Continuous Current I _N (A)	Nominal Input Current (A)	Frame Size	Catalog Number
1/4	100–120V single-phase in 230V three-phase out	1.7	9.2	FS2	MMX11AA1D7N0-0 ^③
1/2		2.4	11.6		MMX11AA2D4N0-0 ^③
3/4		2.8	12.4		MMX11AA2D8N0-0 ^③
1		3.7	15		MMX11AA3D7N0-0 ^③
1-1/2		4.8	16.5		MMX11AA4D8N0-0 ^③
1/4	200–240V single-phase in 230V three-phase out	1.7	4.2	FS1	MMX12AA1D7F0-0
1/2		2.4	5.7		MMX12AA2D4F0-0
3/4		2.8	6.6		MMX12AA2D8F0-0
1		3.7	8.3		MMX12AA3D7F0-0
1-1/2		4.8	11.2		MMX12AA4D8F0-0
2	200–240V three-phase in 230V three-phase out	7	14.1	FS2	MMX12AA7D0F0-0
3		9.6	15.8		MMX12AA9D6F0-0
1/4		1.7	2.7		MMX32AA1D7N0-0 ^③
1/2		2.4	3.5		MMX32AA2D4N0-0 ^③
3/4		2.8	3.8		MMX32AA2D8N0-0 ^③
1	380–480V three-phase in 460V three-phase out	3.7	4.3	FS2	MMX32AA3D7N0-0 ^③
1-1/2		4.8	6.8		MMX32AA4D8N0-0 ^③
2		7	8.4		MMX32AA7D0N0-0 ^③
3		11	13.4		MMX32AA011N0-0 ^③
1/2		1.3	2.2	FS1	MMX34AA1D3F0-0
3/4	575V three-phase in 575V three-phase out	1.9	2.8		MMX34AA1D9F0-0
1		2.4	3.2		MMX34AA2D4F0-0
1-1/2		3.3	4		MMX34AA3D3F0-0
2		4.3	5.6		MMX34AA4D3F0-0
3	7-1/2	5.6	7.3	FS2	MMX34AA5D6F0-0
4		7.6	9.6		MMX34AA7D6F0-0
5		9	11.5		MMX34AA9D0F0-0
7-1/2		12	14.9		MMX34AA012F0-0
10		14	18.7		MMX34AA014F0-0
1	7-1/2	1.7	2.0	FS3	MMX35AA1D7N0-0 ^③
2		2.7	3.6		MMX35AA2D7N0-0 ^③
3		3.9	5.0		MMX35AA3D9N0-0 ^③
5		6.1	7.6		MMX35AA6D1N0-0 ^③
7-1/2		9.0	10.4		MMX35AA9D0N0-0 ^③

Notes

^① Horsepower ratings are based on the use of a 240V, 460V, and 575V NEMA B, four- or six-pole squirrel cage induction motor and are for reference only.

Units are to be selected such that the motor current is less than or equal to the MMX rated continuous output current.

^② For 208V, 380V, or 415V applications, select the unit such that the motor current is less than or equal to the MMX rated continuous output current.

^③ For MMX11_, MMX32_, and MMX35_, there are no options for units with filters.

Model G2 Pressure Transducer



APPLICATIONS

The G2 pressure transducer combines performance with value to meet the demanding needs of the original equipment manufacturer in applications found in:

- Off-road Equipment
- Construction Machinery
- Performance Racing
- Railroad/Transportation
- Compressor Control
- HVAC and Refrigeration
- Agricultural Implements
- Process Automation and Control
- Hydraulic & Pneumatic Sensing
- Pump Monitoring

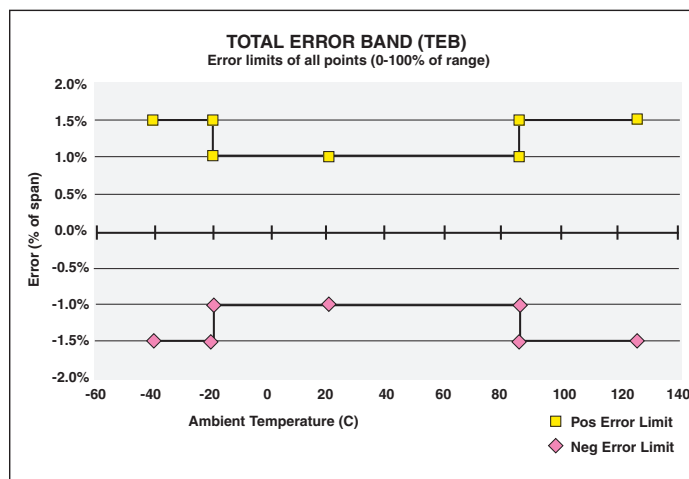
FEATURES

- 1% Total Error Band Accuracy
- Broad Temperature Capability
- All-welded pressure construction
- High EM/RFI rating
- Ranges 30 psi through 20,000 psi
- IP 67 Ingress rating
- Diagnostic rails

The Ashcroft® Type G2⁺ pressure transducer has been specifically designed with the high volume OEM in mind.

A $\pm 1\%$ Total Error Band accuracy is accomplished by marrying a high performance ASIC to a very stable, field proven polysilicon thin film pressure sensor. The sensor is electron beam welded to a pressure fitting of stainless steel, which provides excellent overpressure capability and outstanding durability in the presence of shock and vibration.

The circuitry is held within an internal cage and housed in an enclosure of reinforced Nylon.



PERFORMANCE SPECIFICATIONS

Ref. Condition 21°C $\pm 1^\circ\text{C}$ (72°F $\pm 2^\circ\text{F}$)

Accuracy:

Total Error Band includes combined effects of temperature, non-linearity (Terminal Point Method), hysteresis, non repeatability, zero offset and span setting errors

$\pm 1\%$ of Span: From -20 to 85°C (-4 to 185°F)

$\pm 1.5\%$ of Span: From -40 to -20°C (-40 to -4°F)

$\pm 1.5\%$ of Span: From 85 to 125°C (185 to 257°F)

Note: Static accuracy $\pm 0.25\%$ of span BFSL (Best Fit Straight Line Method); includes non-linearity, hysteresis and non-repeatable effects at reference temperature 72°F (21°C)

Stability: Less than $\pm 0.25\%$ span/year

Durability: Tested to 50 million cycles

ENVIRONMENTAL SPECIFICATIONS

Temperature:

Compensated -40 to 125°C (-40 to 257°F)

Operating -40 to 125°C (-40 to 257°F)

Storage -40 to 125°C (-40 to 257°F)

Humidity: 0 to 100% R.H., no effect

FUNCTIONAL SPECIFICATIONS

Select from over 25 pressure ranges starting at 30 psi and running through 20,000 psi gauge.

Compound (vacuum & pressure) ranges are also available, see "To Order" on back.

Overpressure (F.S.): Proof Burst

750 psi & below 200% F.S. 1000% F.S.

1500 psi 200% F.S. 500% F.S.

3000 psi 200% F.S. 500% F.S.

5000 psi 150% F.S. 500% F.S.

7500 psi 120% F.S. 500% F.S.

10,000 psi 120% F.S. 240% F.S.

20,000 psi 120% F.S. 240% F.S.

Vibration: Random vibration (20 g) over temperature range (-40° to 125°C). Exceeds typical MIL-STD. requirements

Shock: 100gs, 6 ms

Drop Test: Withstands 1 meter on concrete 3 axis

Response Time: Less than 1 msec

Warm-up Time: Less than 500 msec typical

Position Effect: Less than $\pm 0.01\%$ span, typical

ELECTRICAL SPECIFICATIONS

Output Signals Available:

Voltage Output	Excitation	Supply Current
0-5 Vdc, 3 wire	9-36 Vdc	5mA
0-10 Vdc, 3 wire	14-36 Vdc	5mA
1-5 Vdc, 3 wire	9-36 Vdc	4mA
1-6 Vdc, 3 wire	9-36 Vdc	4mA

Ratiometric Output:

0.5-4.5 Vdc, 3 wire 5 Vdc ± 0.5 Vdc 3.5mA

Current Output:

4-20mA, 2 wire 9-36 Vdc

Reverse Polarity & Miswired Protected: Yes

Insulation Breakdown Voltage: 100 Vac

Insulation Resistance: Greater than 100 megohms at 100 Vdc

CE Compliance: Per EN 61326: 1997+ A1: 1998

+ A2: 2001, Annex A (Heavy Industrial)

Model G2 Pressure Transducer

PHYSICAL SPECIFICATIONS

Pressure Connection: 304 stainless steel

Sensor Material: 17-4PH SS

Housing: 20% Glass Reinforced Nylon,
Fire retardant to UL94 V1

Available Process Connections (Male):

1/8 NPT, 1/8 BSP, 1/4 NPT, G1/4 B, 1/16-20 UNF-2A

For other connections consult factory

Ingress Rating:

- IP67, NEMA 4X:
 - Metri-Pack I50 series*
 - Shielded cable
 - Flying leads
- IP65, NEMA 4X:
 - Hirschman G series**
- Deutsch DT Series DT04-3P
- Deutsch DTM Series DTM04-3P
- AMP Superseal

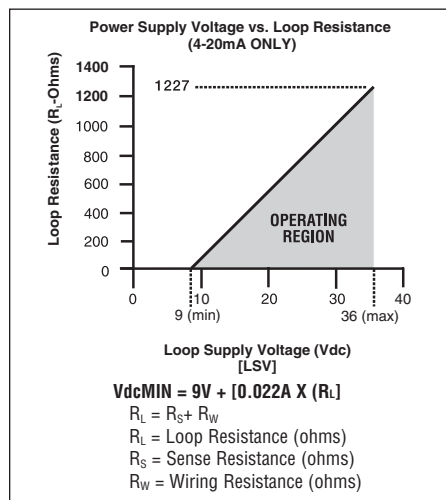
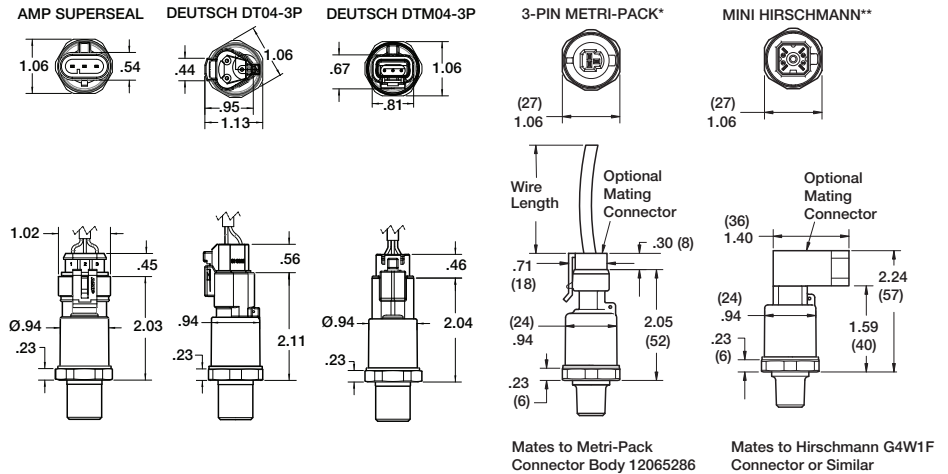
ELECTRICAL TERMINATION

- Shielded Cable: 3' standard, 24 AWG, PVC Jacket
- Flying Lead: 3' standard, 18 AWG
- Metri-Pack 150 series*
- Hirschmann G series**

*Metri-Pack is a trademark of Delphi Packard Electric Systems

**Trade Mark of Richard Hirschmann of America, Inc.

DIMENSIONS



How To Order

G 2	7							X
Type Configuration (G2)	Accuracy	Output Signal	Electrical Termination	Pressure Ranges	Measurement Type	Optional X-Variations		
	1.0% Total Error Band -20°C/+85°C 1.5% Total Error Band -40°C/-20°C, 85/125°C	05 = 0-5 Vdc 10 = 0-10 Vdc 15 = 1-5 Vdc 16 = 1-6 Vdc 42 = 4-20mA RM = 0.5-4.5 Vdc Ratio Metric to 5Vdc supply	Metri-Pack GN = no mating conn. G2 = mating conn. 3' cable G3 = mating conn. 10' cable G1 = mating conn. w/customer specified length Hirschmann G Series HM = no mating conn. M1 = with mating conn. no cable M2 = mating conn. 3' cable P9 = mating conn. w/customer specified length Flying Leads W2 = 3' flying leads W9 = customer specified length Shielded Cable F2 = 3' shielded cable F3 = 10' shielded cable P1 = customer specified length	psi Ranges 30# = 30 psi 50# = 50 psi 60# = 60 psi 100# = 100 psi 150# = 150 psi 200# = 200 psi 300# = 300 psi 400# = 300 psi 500# = 500 psi 750# = 750 psi 1000# = 1000 psi 1500# = 1500 psi 2000# = 2000 psi 3000# = 3000 psi 5000# = 5000 psi 6000# = 6000 psi 7500# = 7500 psi 10000# = 10000 psi 20000# = 20000 psi	G = Gauge Pressure	Consult Factory for Available Options		
		Pressure Connection M01 1/8 NPT-male M02 1/4 NPT-male MEK 7/16-20 SAE-male w/Buna-N O-ring MS2 3/4-19 bsp male MG2 G 1/4 B male M76 1/16-20 UNJF-3A (w/37° cone seat) M38 3/8-20 SAE-male MEV 1/16-18 SAE-male M33 3/8-24 UNJF3A (w/37° cone seat)	Deutsch DT Series DT04-3P DT = w/out mating conn. T2 = w/1m, 3ft cable T3 = w/3m, 10ft cable T1 = w/mating conn. cable customer defined length Deutsch DTM Series DTM04-3P DS = w/out mating conn. S2 = w/1m, 3ft cable S3 = w/3m, 10ft cable S1 = w/mating conn. cable customer defined length AMP Superseal AP = w/out mating conn. A2 = w/1m, 3ft cable A3 = w/3m, 10ft cable A1 = w/mating conn. cable customer defined length	Compound Ranges 30#&vac = 30 psi/-14.7 psi 45#&vac = 45 psi/-14.7 psi 60#&vac = 60 psi/-14.7 psi 85#&vac = 85 psi/-14.7 psi 100#&vac = 100 psi/-14.7 psi 150#&vac = 150 psi/-14.7 psi 200#&vac = 200 psi/-14.7 psi 300#&vac = 300 psi/-14.7 psi				

Consult factory for other connections

Type 1008A/AL Stainless Steel Metric Case Commercial Gauge



FEATURES

- 63mm (2½") and 100mm (4") case sizes
- Corrosion-resistant stainless steel case/ring
- Dry, field-fillable or liquid-filled versions
- Patented PowerFlex™ movement
- True Zero™ indication, a unique safety feature
- Two-year warranty on liquid-filled gauges

Ashcroft® Type 1008A gauges are synonymous with durability, flexibility and exceptional quality.

The Type 1008A case and ring assembly is constructed of durable, corrosion-resistant stainless steel. The gauge enclosure is sealed to provide maximum protection in adverse environmental conditions. The core of the Type 1008A is the patented PowerFlex™ movement. This movement provides a higher level of resistance to shock, vibration and pulsation than conventional gauge movements.

Both 63mm and 100mm Type 1008A gauges are available dry, field fillable, glycerin filled or silicone filled. Weld nuts are standard on all back connection gauges, therefore, any back-connection gauge with the addition of a U-clamp accessory kit, can be panel mounted. For limited space constraints, the front-flange mounting kit is offered. Where it is necessary to convert a larger panel opening to a smaller size, the retrofit flange kit is available. Custom dials and metric sockets are also available.

True Zero™ indication, a unique safety feature standard on these gauges, is the accurate indication of zero pressure being applied to the gauge. In addition to the increased safety benefits, this means reduced inspection and manufacturing costs for you and your customer.

PRODUCT SPECIFICATIONS:

Ashcroft® Model No.: 1008A/AL

Size: 63mm (2½"), 100mm (4")

Case: 304 stainless steel, dry (1008A) or liquid filled (1008AL)

Fill Fluid: Glycerin (20° to 150°F ambient; -7°C to 65°C)

Ring: 304 stainless steel, crimped

Window: Polycarbonate

Dial: Black figures on white background, aluminum

Pointer: Black, aluminum

Bourdon Tube: – C-shaped Bronze (vac.-600 psi and compound)

– Helical Bronze (1000 psi-6000 psi)

– Helical stainless steel (10,000 psi-15,000 psi)

Movement: Patented PowerFlex™ movement

Socket: Brass, with O-ring case seal

Restrictor: Brass throttle plug, 0.013" orifice (except for vacuum 15 psi ranges)

Connection: ¼ NPT lower and back

Ranges: Vac. thru 15,000 psi and compound. Equivalent metric ranges available

Accuracy: ASME B40.100, Grade B, ±3-2-3%

Operating Temp.: -40°F to 150°F, -40°C to 65°C (dry gauge)

OPTIONAL FEATURES:

Case: Sealed case, field fillable (LJ)
Silicone filled (GV)
(-40°F to 150°F; -40°C to 65°C)

Mounting Hardware: U-clamp (UC), Front flange (FF), Retrofit flange (RF)

Socket: Throttle Plugs, 0.007", 0.020", 0.063" JIS, DIN and other connections on application

Others: Customized dials, Nonstandard ranges, Special calibration on application
FlutterGuard™ (eliminates rapid pointer flutter on most vibration/ pulsation applications – dry gauges only)

COMMONLY USED ON

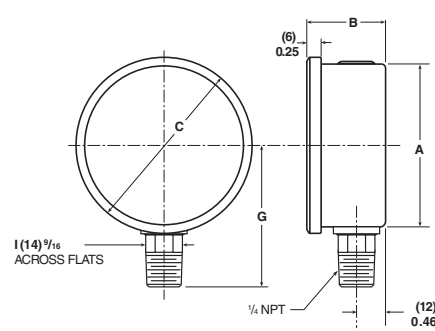
Hydraulic systems, machine tools, pressure washers/sprayers, compressors, irrigation equipment, a variety of other applications

HOW TO ORDER (Typical example)

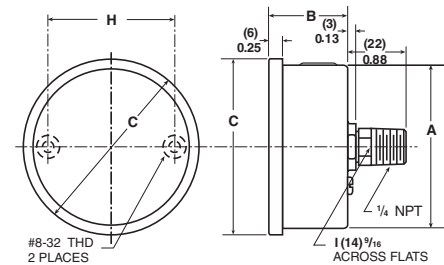
Dial Size: 63mm _____ **63** **1008A** **L** **02L** **1000#**
 Case Type Number: 1008A _____
 (SS case / bronze tube / brass socket / PowerFlex movement)
 Liquid Filled Case _____
 Connection Size/Location: ¼ NPT Lower _____
 Range: 1000 psi _____

Type 1008A/AL Stainless Steel Metric Case Commercial Gauge

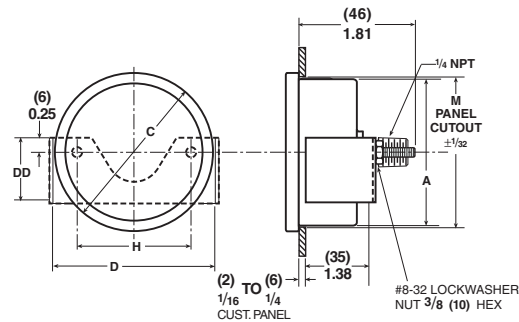
DIMENSIONS



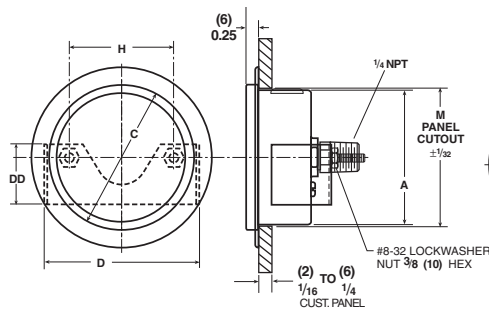
63/100mm 1008A/AL Lower Connection



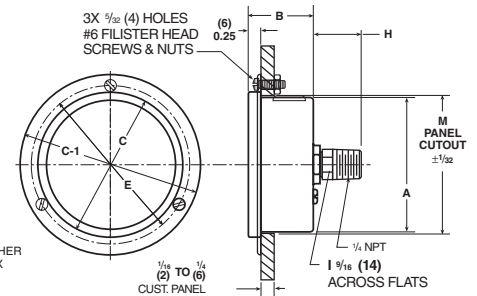
63/100mm 1008A/AL Back Connection



63/100mm 1008A/AL Back Connection
(XUC) U-Clamp



63/100mm 1008A/AL Back Connection
(XRF) Front Flange Retrofit

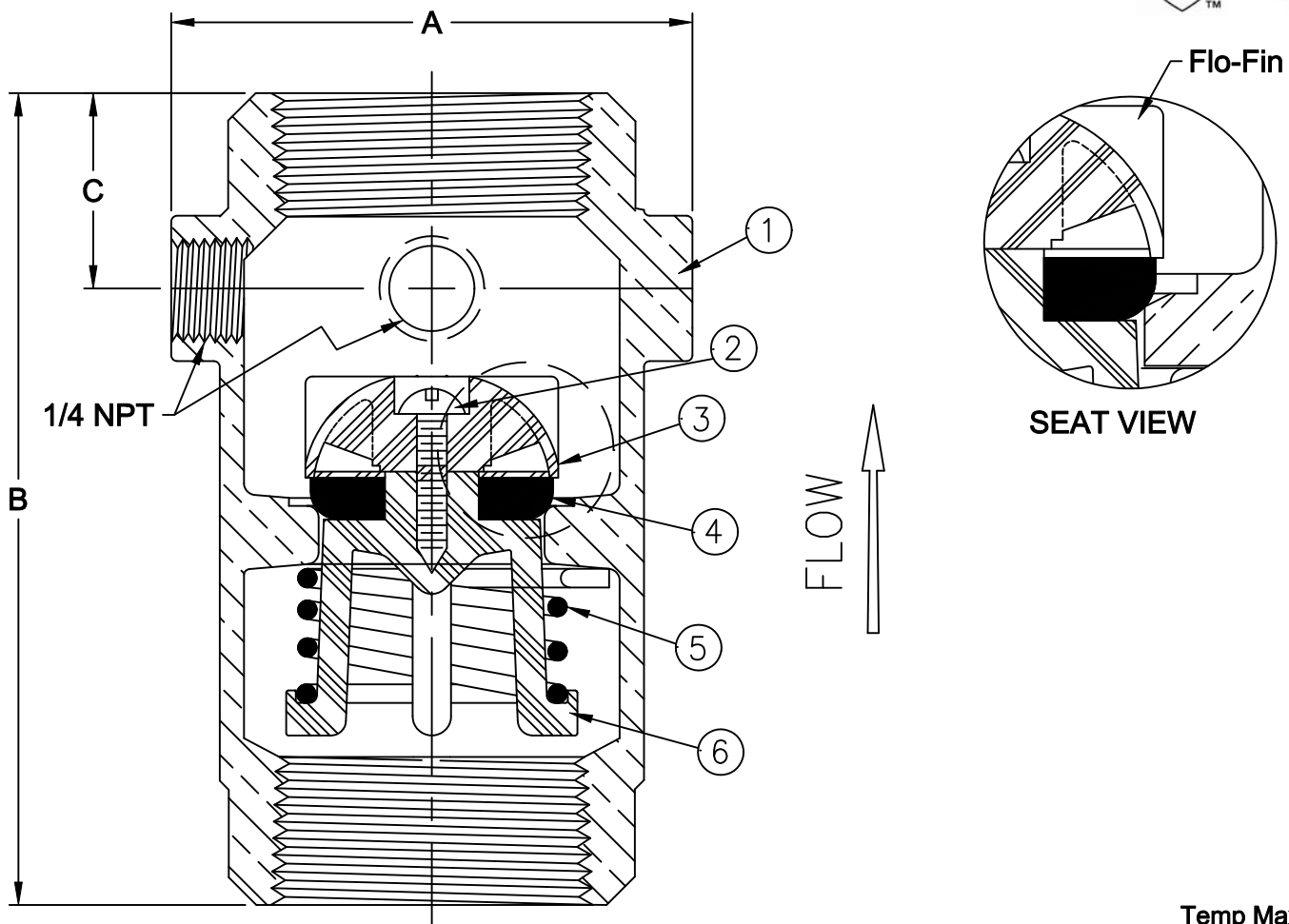


63/100mm 1008A/AL Back Connection
(XFF) Front Flange

SIZE/TYPE	A	B	C	CC	D	DD	E	G	H	M	LOWER		BACK	
											Weight oz / kg Dry	Weight oz / kg Wet	Weight oz / kg Dry	Weight oz / kg Wet
63mm, 1008A/AL	(63) 2.48	(31) 1.21	(69) 2.71	(86) 3.36	(75) 2.95	(28) 1.12	(75) 2.95	(56) 2.20	(49) 1.94	(65) 2.54	3.88 oz 0.110 kg	7.48 oz 0.212 kg	4.09 oz 0.116 kg	7.69 oz 0.218 kg
100mm, 1008A/AL	(100) 3.94	(31) 1.24	(106) 4.16	(133) 5.22	(107) 4.20	(28) 1.12	(116) 4.57	(74) 2.92	(76) 3.00	(101) 3.97	8.11 oz 0.230 kg	15.80 oz 0.448 kg	7.13 oz 0.202 kg	14.82 oz 0.420 kg

Dimensions in (mm) inches.

Materials



Temp Max: 180°F
Pressure Max: 400 psi

Item #	Qty	Description	Material	ASTM
1	1	Body	Unleaded Bronze	C89833
2	1	Screw	Stainless Steel	18-8
3	1	Dome	Delrin	-----
4	1	Disc	Buna-n	-----
5	1	Spring	Stainless Steel	18-8
6	1	Guide	Delrin	-----

Dimensions

Patent # 4,971,093 & 6,581,633

Size		Part #	A		B		C		Weight	
inch	mm		inch	mm	inch	mm	inch	mm	lbs	kg
1	25	7961E	1-29/32	48	3-3/4	95	15/16	24	1-13/64	.55
1-1/4	32	7963E	2-11/16	68	4-3/16	106	1	25	1-13/16	.82
1-1/2	40	7964E	3	76	4-5/8	117	1-1/8	29	2-11/16	1.22

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BOOSTER PUMP TANKS

BackStop® Booster Pump Tanks are used in potable water systems to maintain system pressure when the pump is not operating. Pump tanks increase the pump and water system life by reducing system cycling time. The heavy duty diaphragm keeps the water permanently isolated from the pre-charged air cushion.

Model No.	Volume (liter)	Volume (gal.)	Acceptance Vol. (gal.)	Height	Dia.	Sys. Conn.	Wt. (lbs.)
APT18H	18	4.5	3.2	14.8"	12"	3/4"	10
APT24H	22	6	4.2	16.5"	12"	3/4"	11
APT58H	53	14.5	8.5	21"	17"	1"	23
APT80H	78	20	12.6	28"	17"	1"	29



Pump sold separately