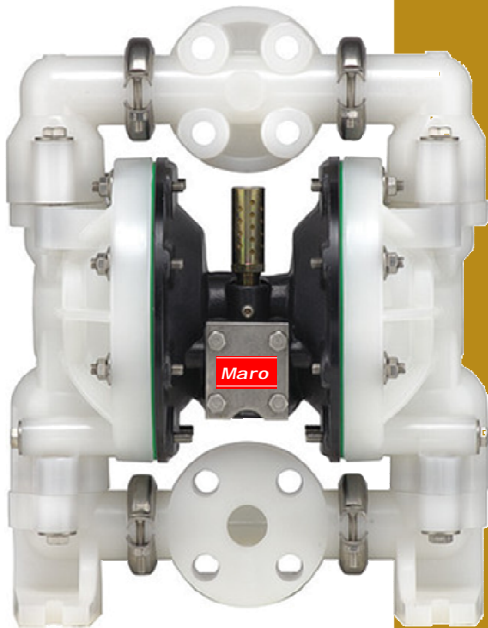
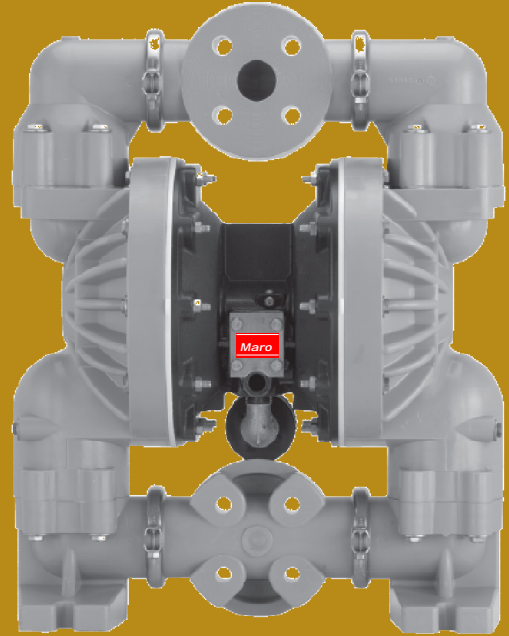
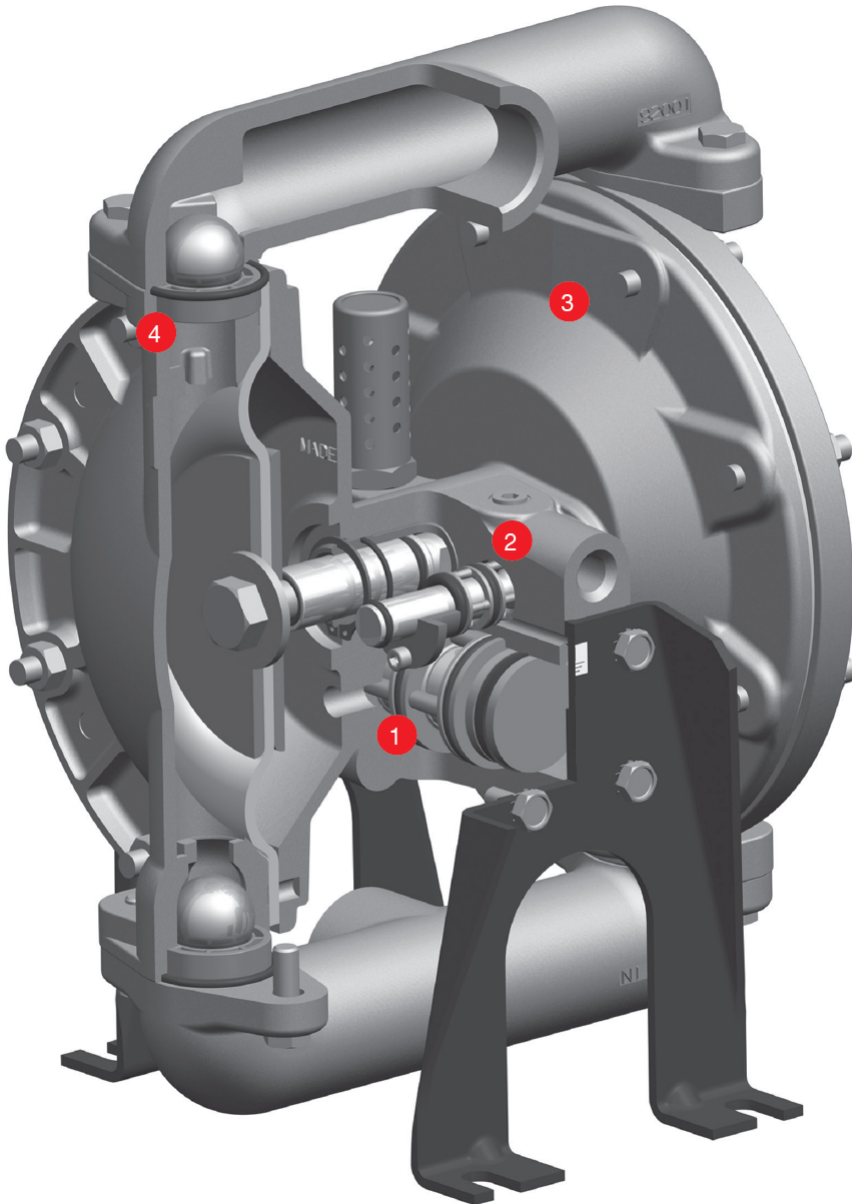


# Maro



*Air-Operated Double  
Diaphragm Pumps*

### Value Proposition



#### MARO Diaphragm Pumps: Keys to MARO Air Motor Technology

##### 1. "Unbalanced" Major Air Valve

- Unbalanced valve design eliminates valve centering and pump stall-out, even under low air inlet pressures.
- "O" Ring seals prevent waste of expensive compressed air.
- Air flow stops when fluid flow stops.
- Maintenance is simple: just replace the worn "O" Rings and "U" Cups.

##### 2. Independent Pilot Rod

- Utilizes pneumatics and mechanical action to shift Pilot Rod. Ensures positive pilot signal, avoiding stall-out.

##### 3. Broad Material Selection

- Options allow you to optimize compatibility between the pump and fluid being moved.
- Non-Metallic Diaphragm Pumps are available in polypropylene, PVDF and groundable acetal.
- Check models for availability.
- Metallic Diaphragm Pumps are available in aluminum, stainless steel and cast iron. Check models for availability.

##### 4. Diaphragm/Ball Check Options

- Fit your pump with the diaphragms and ball checks needed to maximize fluid compatibility and abrasion

#### Introducing the New High-Flow Pumps: MA50 and MA75:

At the far end of the fluid delivery spectrum, the new MARO MA Series 2" and 3" port models feature MARO's patented "Unbalanced", stall-free air valve design and bolted construction for leak-tight integrity. With maximum delivery rates of 651 l/min (2") and 897 l/min (3"), the new high-flow pumps are the ideal answer to big volume applications - where performance with economy are a must.

## Materials

Compound	Optimum Temperature	Main Applications / Chemical Compatibility
Neoprene	10 to 54 °C	General purpose diaphragm (non-aggressive applications – water-based slurries, well water or sea water).
	50 to 130 °F	
Buna-N	10 to 60 °C	Petroleum/oil-based fluids (leaded gasoline, fuel oils, non-synthetic hydraulic oils, kerosene, turpentine, motor oils).
	50 to 140 °F	
EPDM	10 to 60 °C	Extremely cold temperatures. Low cost alternative when pumping dilute acids or caustics.
	50 to 140 °F	
Viton	24 to 100 °C	Extremely hot temperatures. Aggressive fluids such as aromatic or chlorinated hydrocarbons and highly aggressive acids in applications involving suction lift outside the range of PTFE.
	75 to 212 °F	
Polyurethane	10 to 54 °C	Non-aggressive applications (water-based slurries, well water or sea water).
	50 to 130 °F	
Santoprene	10 to 100 °C	Low cost alternative to Teflon® in many acidic and caustic applications such as sodium hydroxide, sulfuric or hydrochloric, At a cost comparable to neoprene.
	50 to 212 °F	
Hytrel	10 to 54 °C	FDA approved for food processing applications. Outstanding general purpose diaphragm as well.
	50 to 130 °F	
PTFE	10 to 100 °C	Aggressive chemicals and solvent but low abrasion resistance.
	50 to 212 °F	

### MA15 Non-Metallic Pump



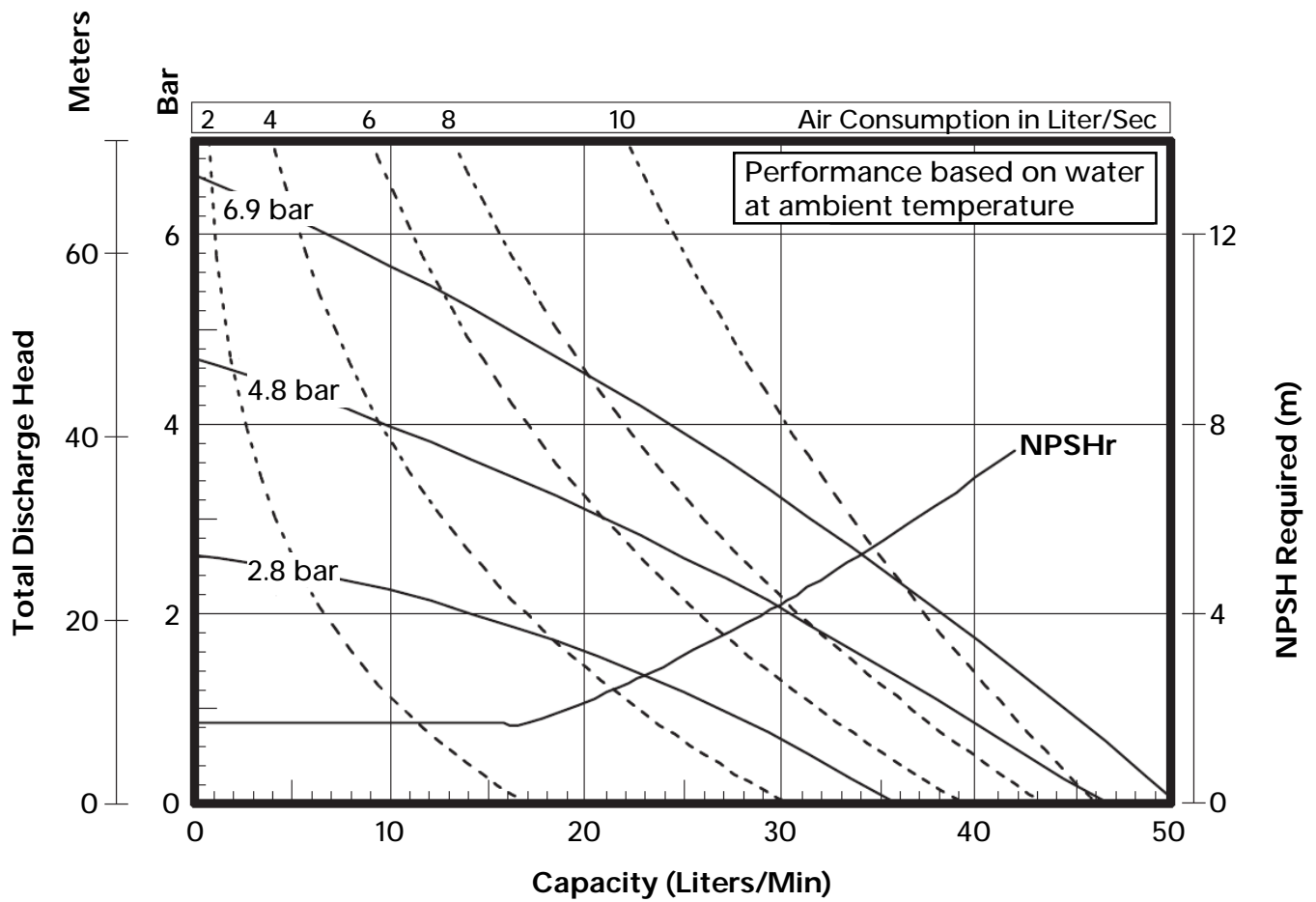
#### ½" Non-Metallic Performance Specifications

Ratio:	1 : 1
Maximum Capacity:	49.2 l/min (13 gpm)
Air Inlet:	¼" BSP-Female
Fluid Inlet:	½" BSP-Female
Fluid Outlet:	½" BSP-Female
Max. working pressure:	6.9-bar (100 psi)
Suspended solids max. dia.:	2.4 mm (3/32")
Weight:	4 kg (8.8 lbs)
Maximum dry suction lift:	3.05 m (10 ft)

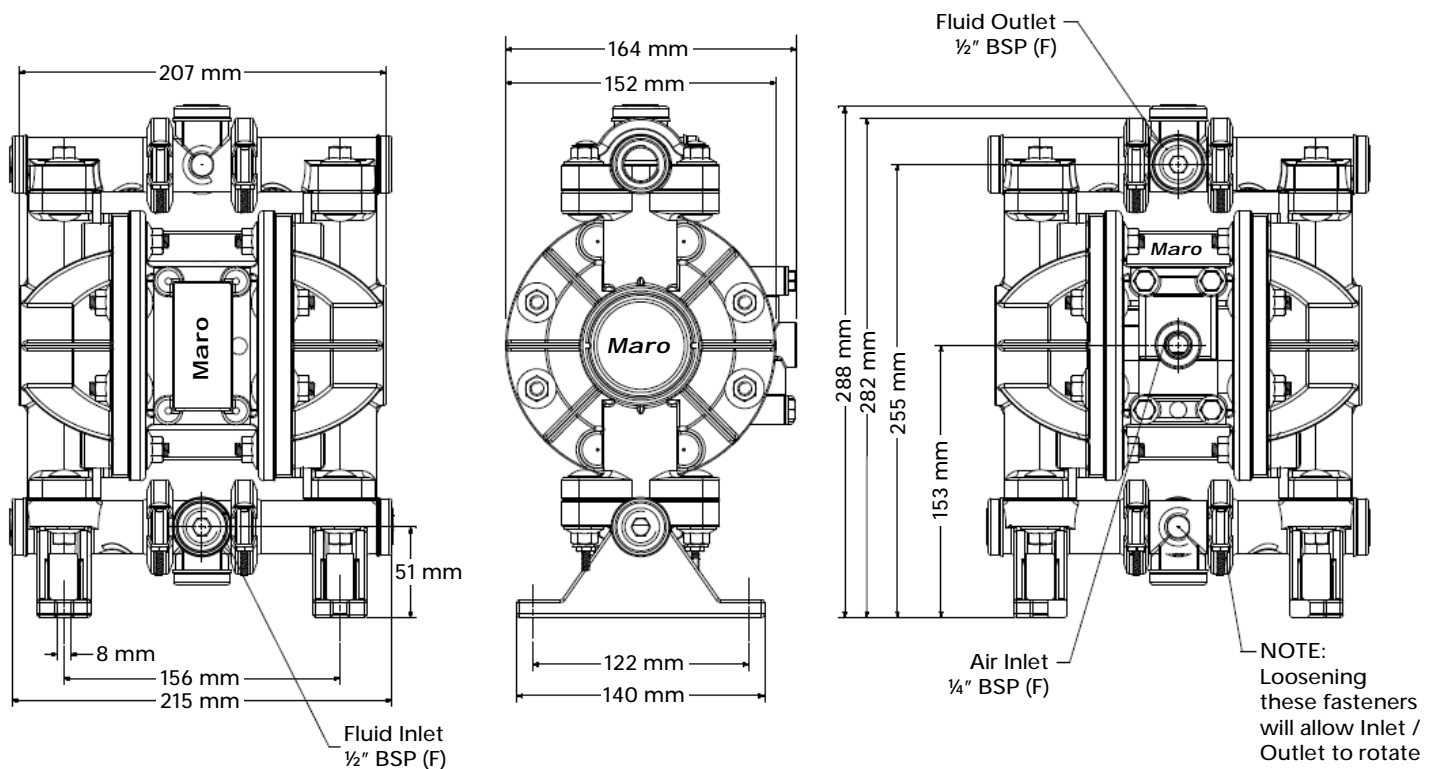
#### Identification Code

<b>MA</b>	<b>15</b>	-	<b>X</b>	<b>X</b>	-	<b>X</b>
Series Type	Pump Size		Hardware Material	Elastomer Material		Connection Standard
MA MEXP MWR DP	15: ½" 25: 1" 40: 1-½" 50: 2" 75: 3"		A: Aluminium S: Stainless steel C: Cast iron P: Polypropylene K: PVDF / PTFE	S: Santoprene N: Nitrile T: Teflon (PTFE) V: Viton		B: BSP N: NPT F: Flange

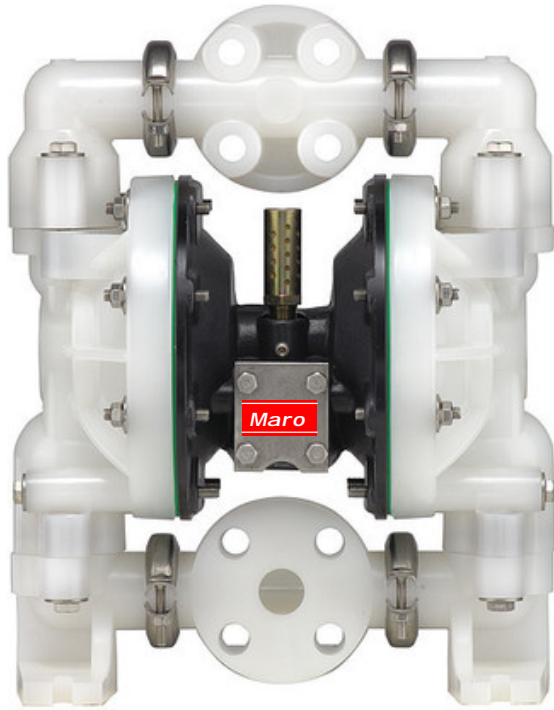
## Performance Curve



## Dimensions (mm)



## MA25 Non-Metallic Pump



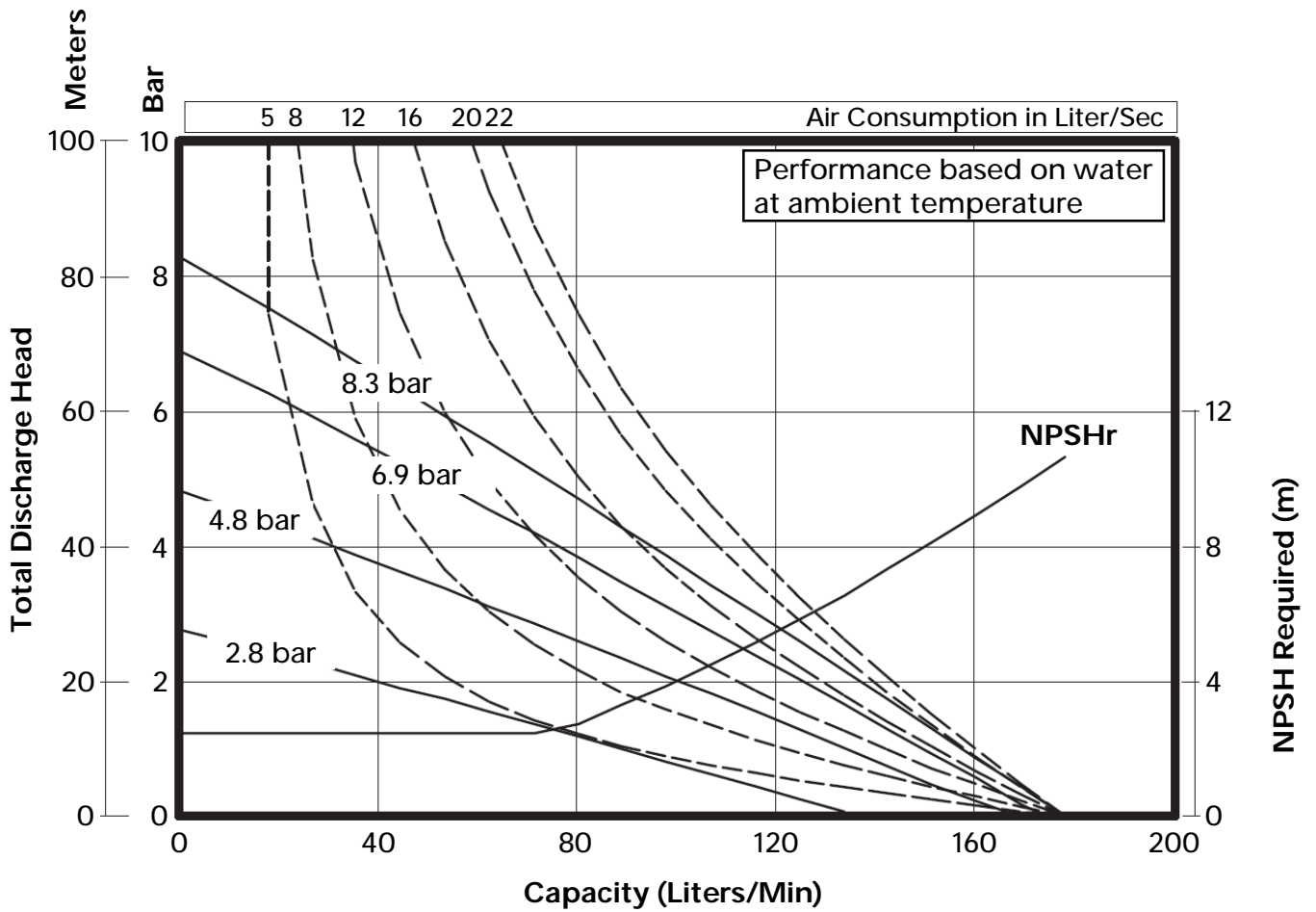
### 1" Non-Metallic Performance Specifications

Ratio:	1 : 1
Maximum Capacity:	170 l/min (45 gpm)
Air Inlet:	¼" BSP-Female
Fluid Inlet:	1" ANSI/DIN Flange
Fluid Outlet:	1" ANSI/DIN Flange
Max. working pressure:	8.3-bar (120 psi)
Suspended solids max. dia.:	3.2 mm (1/8")
Weight:	kg (lbs)
	MA25-PX (Polypropylene) 9.5 (21)
	MA25-KX (Kynar) 12.9 (28.4)
Maximum dry suction lift:	4.5 m (14.8 ft)

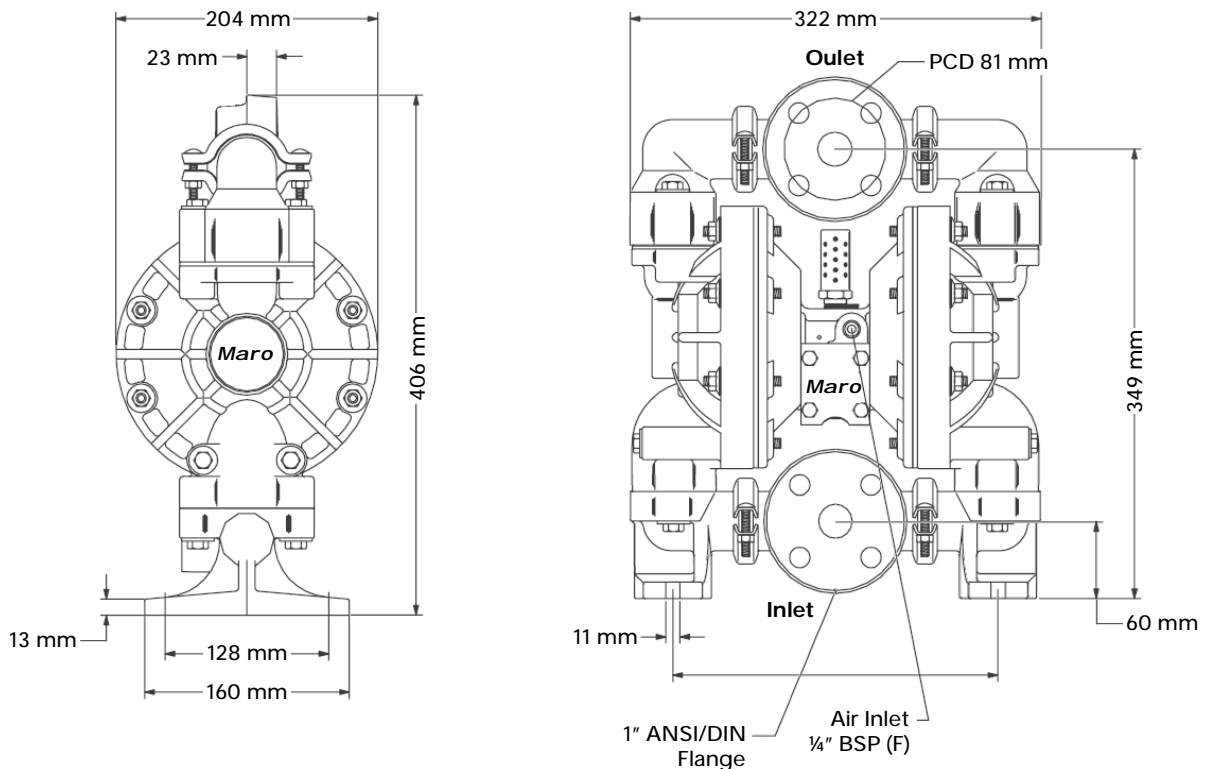
### Identification Code

<b>MA</b>	<b>25</b>	-	<b>X</b>	<b>X</b>	-	<b>X</b>
Series Type	Pump Size		Hardware Material	Elastomer Material		Connection Standard
MA	15: ½"		A: Aluminium	S: Santoprene		B: BSP
MEXP	25: 1"		S: Stainless steel	N: Nitrile		N: NPT
MWR	40: 1-½"		C: Cast iron	T: Teflon (PTFE)		F: Flange
DP	50: 2"		P: Polypropylene	V: Viton		
	75: 3"		K: PVDF / PTFE			

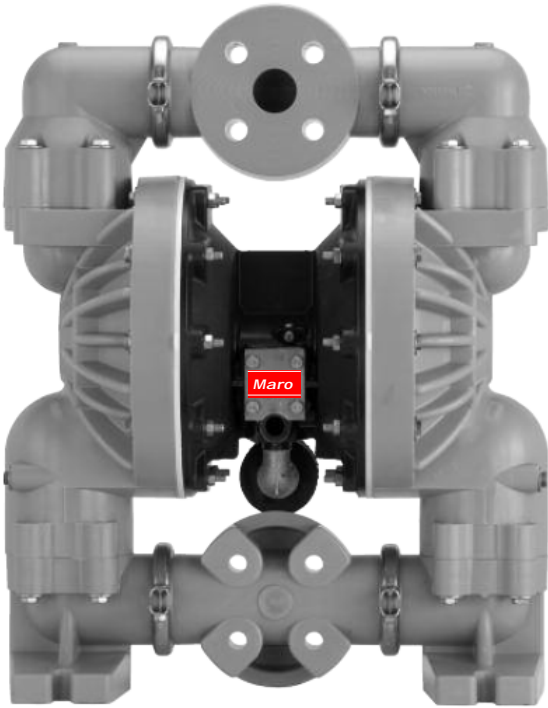
## Performance Curve



## Dimensions (mm)



## MA40 Non-Metallic Pump



### 1-½" Non-Metallic Performance Specifications

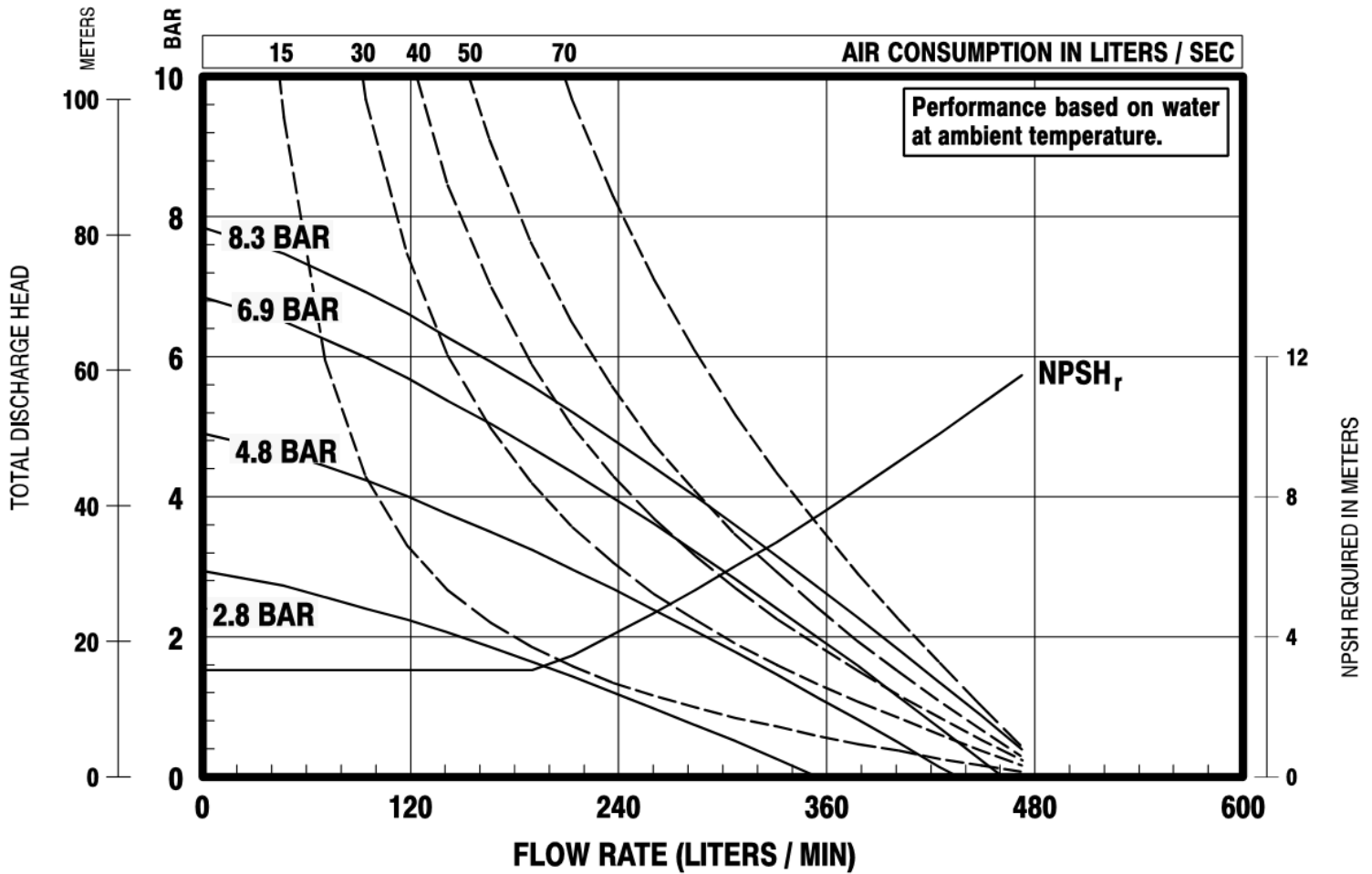
Ratio:	1 : 1
Maximum Capacity:	378 l/min (100 gpm)
Air Inlet:	½" BSP-Female
Fluid Inlet:	1-½" ANSI/DIN Flange
Fluid Outlet:	1-½" ANSI/DIN Flange
Max. working pressure:	8.3-bar (120 psi)
Suspended solids max. dia.:	6.4 mm (¼")
Weight:	kg (lbs)
	MA40-PX (Polypropylene) 28.1 (62)
	MA40-KX (Kynar) 41.7 (92)
Maximum dry suction lift:	4.27 m (14 ft)

### Identification Code

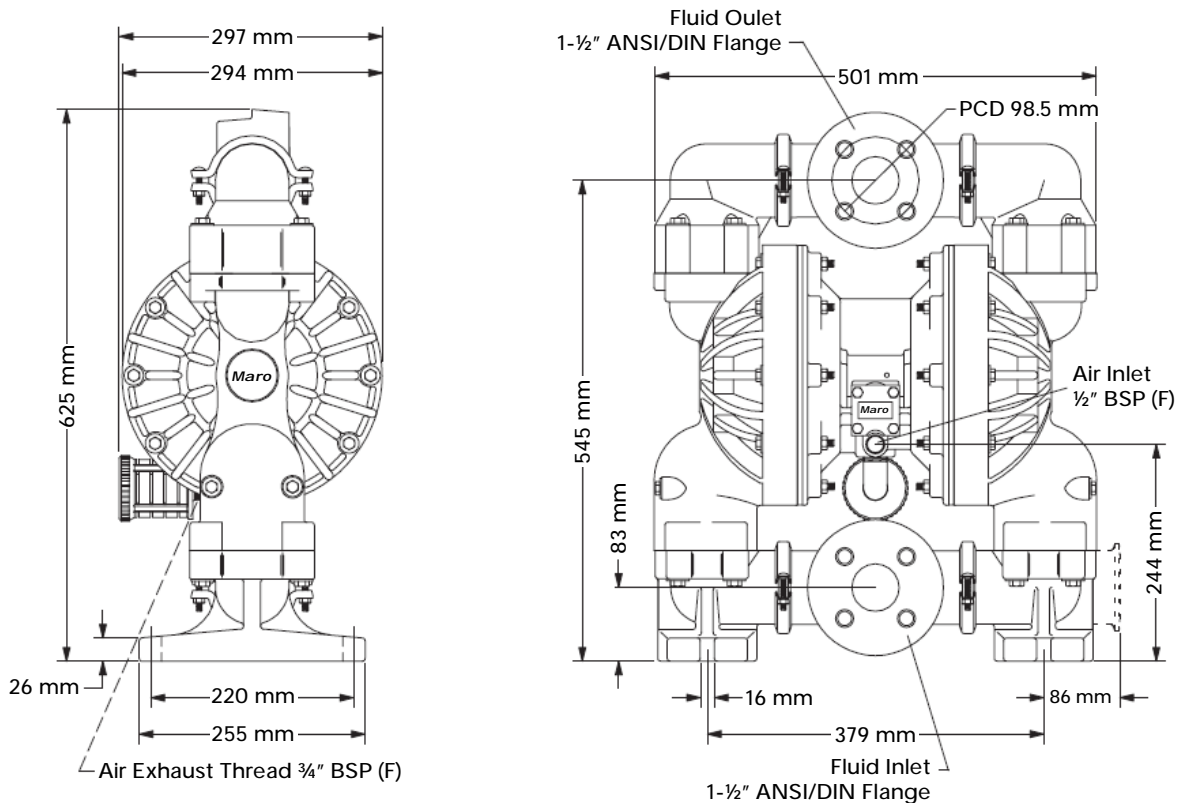
<b>MA</b>	<b>40</b>	-	<b>X</b>	<b>X</b>	-	<b>X</b>
Series Type	Pump Size		Hardware Material	Elastomer Material		Connection Standard
MA MEXP MWR DP	15: ½" 25: 1" 40: 1-½" 50: 2" 75: 3"		A: Aluminium S: Stainless steel C: Cast iron P: Polypropylene K: PVDF / PTFE	S: Santoprene N: Nitrile T: Teflon (PTFE) V: Viton		B: BSP N: NPT F: Flange



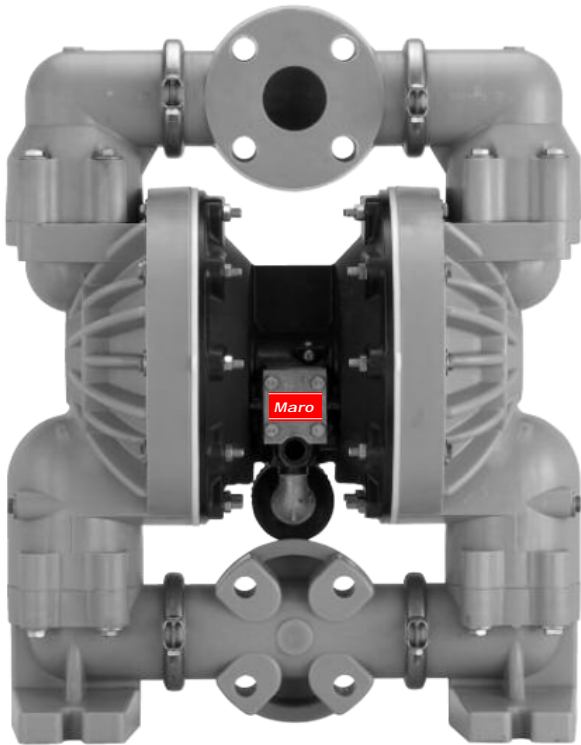
## Performance Curve



## Dimensions (mm)



## MA50 Non-Metallic Pump



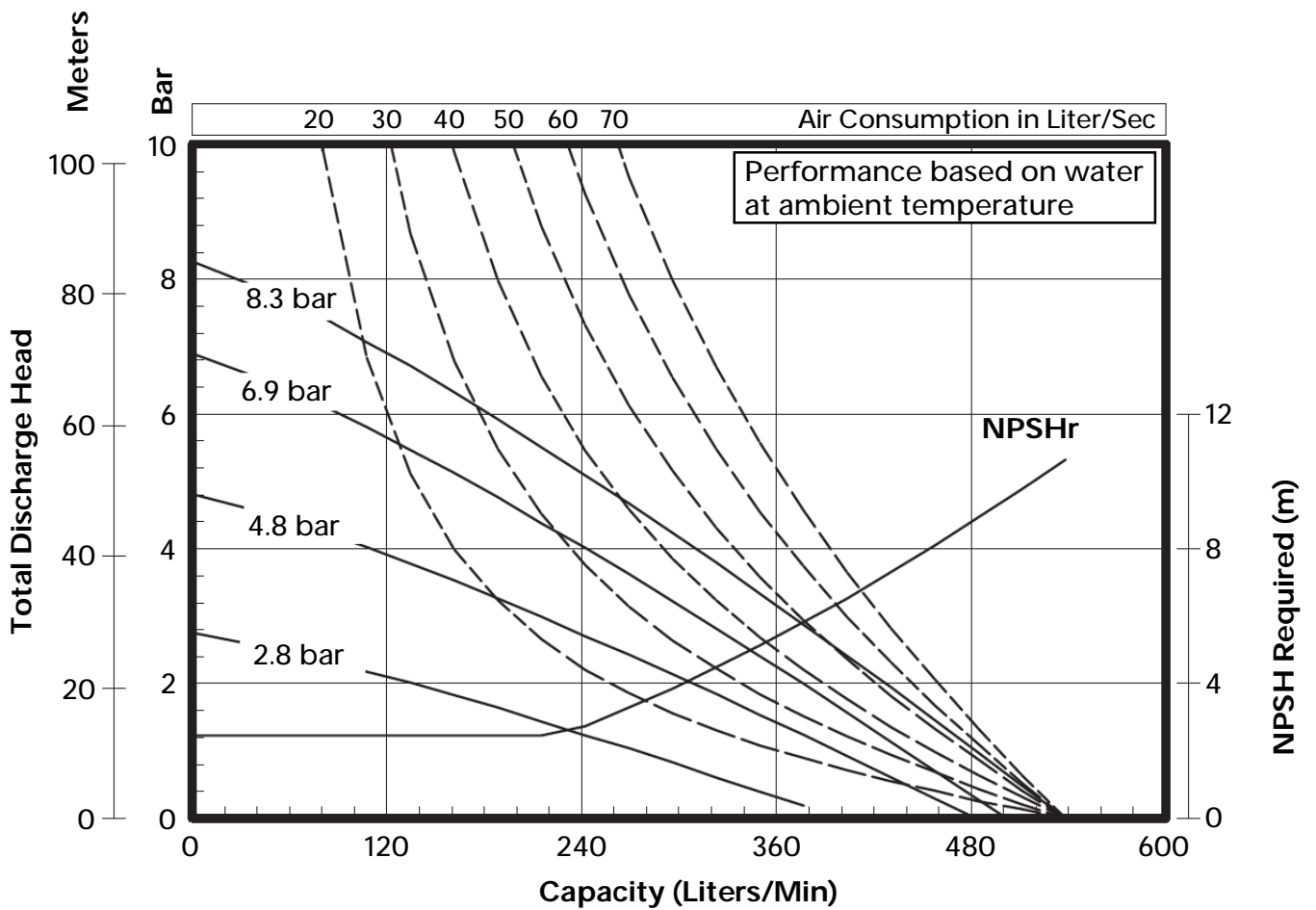
### 2" Non-Metallic Performance Specifications

Ratio:	1 : 1
Maximum Capacity:	548 l/min (145 gpm)
Air Inlet:	½" BSP-Female
Fluid Inlet:	2" ANSI/DIN Flange
Fluid Outlet:	2" ANSI/DIN Flange
Max. working pressure:	8.3-bar (120 psi)
Suspended solids max. dia.:	6.4 mm (¼")
Weight:	kg (lbs)
	MA50-PX (Polypropylene) 28.1 (62)
	MA50-KX (Kynar) 41.7 (92)
Maximum dry suction lift:	4.27 m (14 ft)

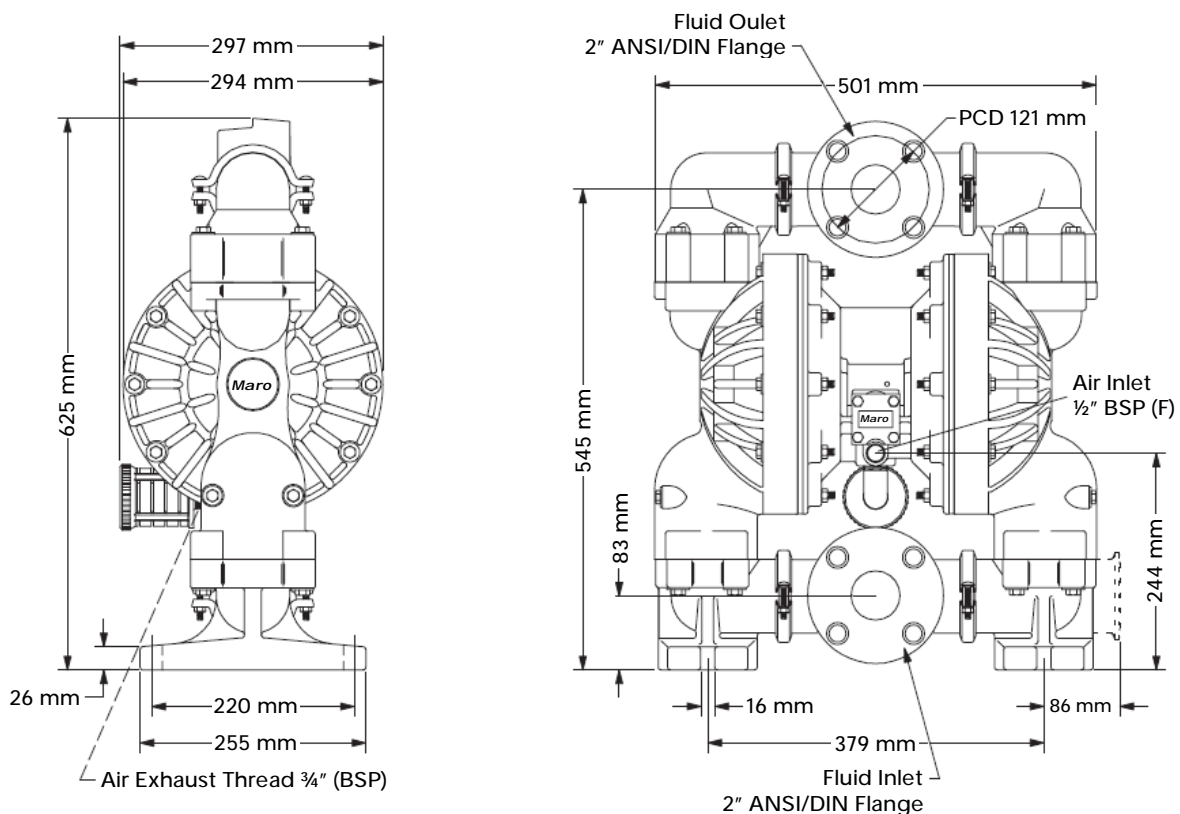
### Identification Code

<b>MA</b>	<b>50</b>	-	<b>X</b>	<b>X</b>	-	<b>X</b>
Series Type	Pump Size		Hardware Material	Elastomer Material		Connection Standard
MA MEXP MWR DP	15: ½" 25: 1" 40: 1-½" 50: 2" 75: 3"		A: Aluminium S: Stainless steel C: Cast iron P: Polypropylene K: PVDF / PTFE	S: Santoprene N: Nitrile T: Teflon (PTFE) V: Viton		B: BSP N: NPT F: Flange

## Performance Curve



## Dimensions (mm)



### MA15 Metallic Pump



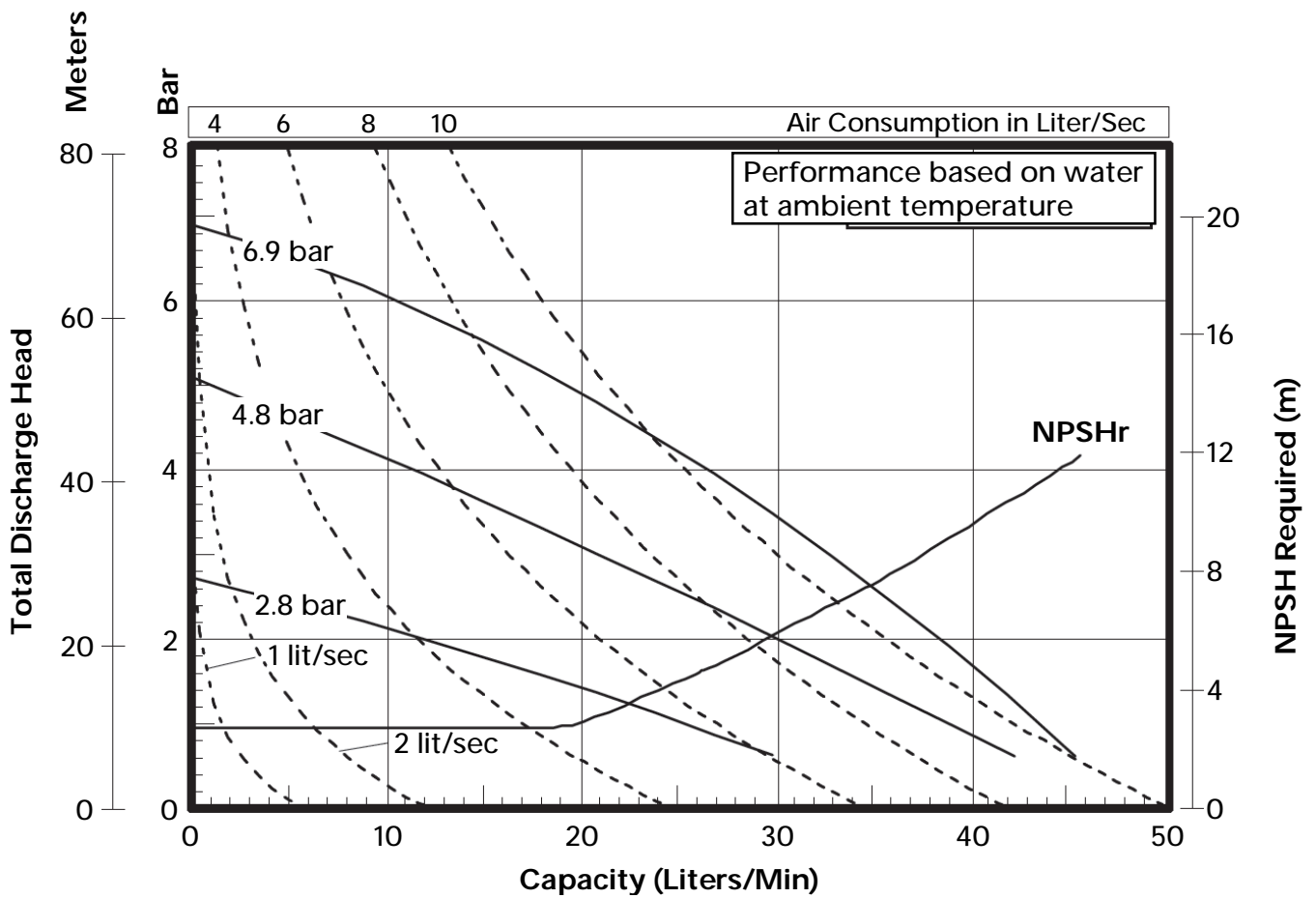
#### ½" Metallic Performance Specifications

Ratio:	1 : 1
Maximum Capacity:	45 l/min (12 gpm)
Air Inlet:	¼" BSP-Female
Fluid Inlet:	½" BSP-Female
Fluid Outlet:	½" BSP-Female
Max. working pressure:	6.9-bar (100 psi)
Suspended solids max. dia.:	3.3 mm (1/8" inch)
Weight:	kg (lbs)
	MA15-AX (aluminum) 4.7 (10.4)
	MA15-SX (stainless steel) 7.5 (16.6)
Maximum dry suction lift:	3.3 m (10.8 ft)

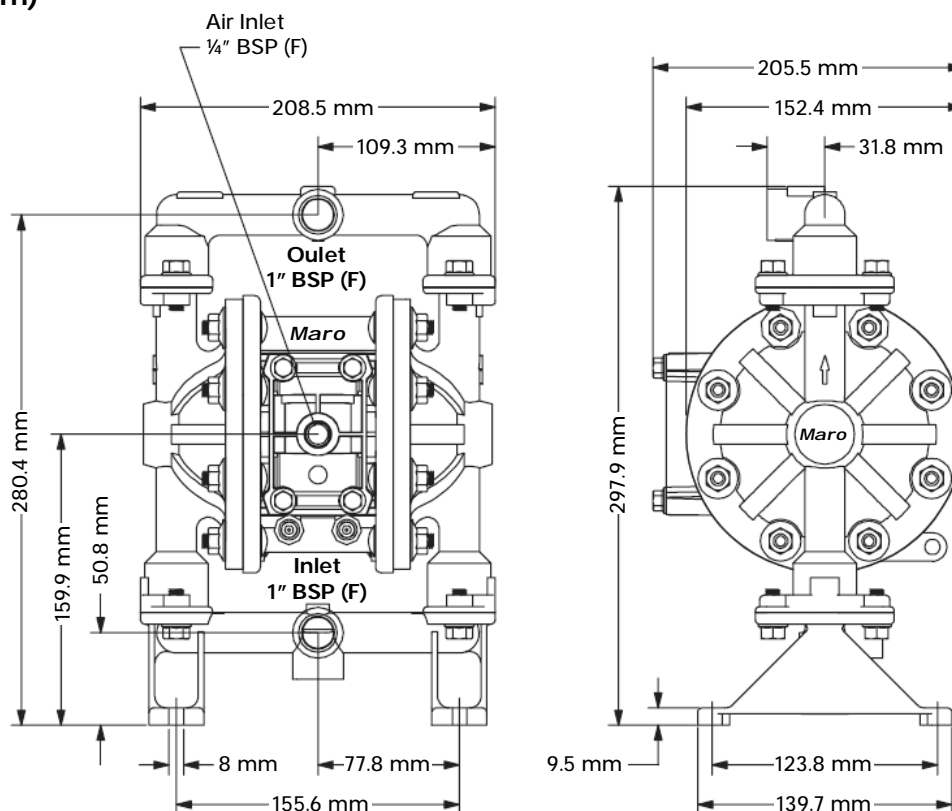
#### Identification Code

<b>MA</b>	<b>15</b>	-	<b>X</b>	<b>X</b>	-	<b>X</b>
Series Type	Pump Size		Hardware Material	Elastomer Material		Connection Standard
MA MEXP MWR DP	15: ½" 25: 1" 40: 1-½" 50: 2" 75: 3"		A: Aluminium S: Stainless steel C: Cast iron P: Polypropylene K: PVDF / PTFE	S: Santoprene N: Nitrile T: Teflon (PTFE) V: Viton		B: BSP N: NPT F: Flange

### Performance Curve



### Dimensions (mm)



### MA25 Metallic Pump



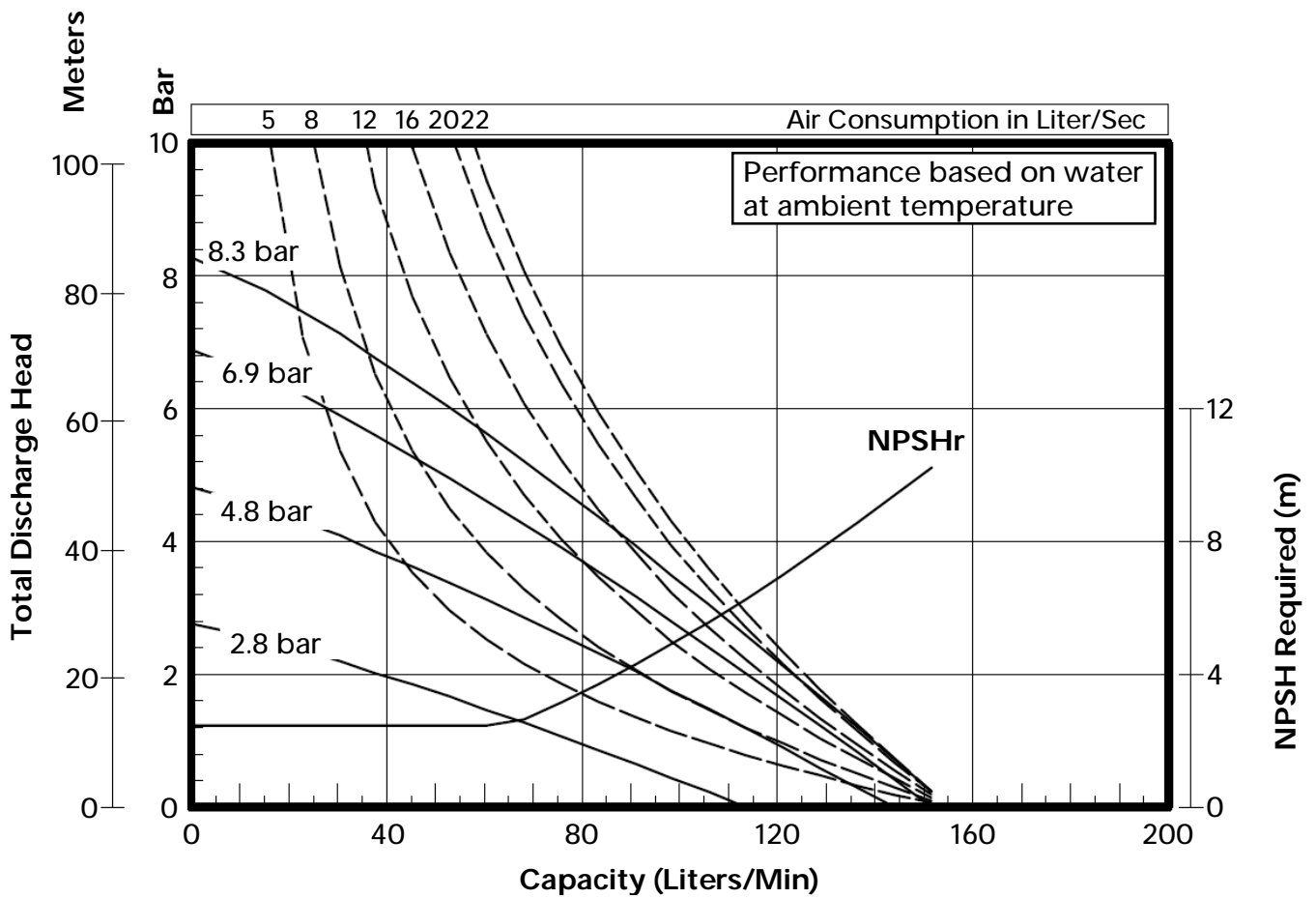
#### 1" Metallic Performance Specifications

Ratio:	1 : 1
Maximum Capacity:	133 l/min (35 gpm)
Air Inlet:	¼" BSP-Female
Fluid Inlet:	1" BSP-Female
Fluid Outlet:	1" BSP-Female
Max. working pressure:	8.3-bar (120 psi)
Suspended solids max. dia.:	3.2 mm (¼" inch)
Weight:	kg (lbs)
	MA25-AX (aluminum) 8.6 (19)
	MA25-SX (stainless steel) 16.3 (36)
Maximum dry suction lift:	4.5 (14.8 ft)

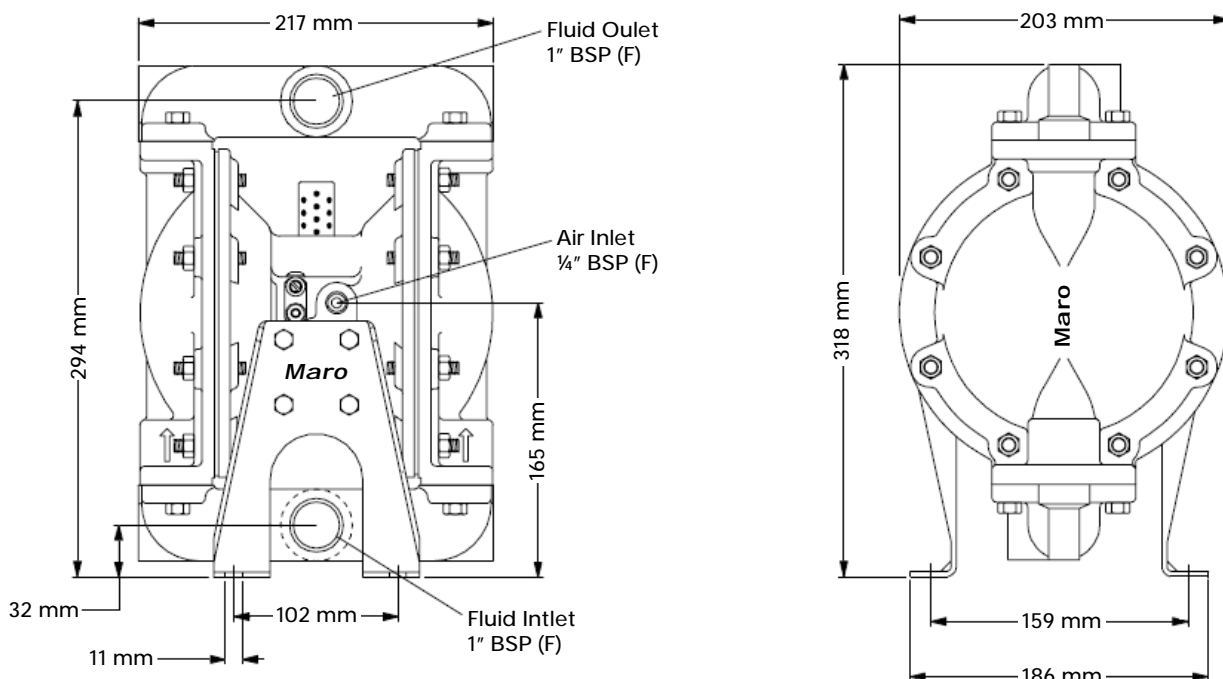
#### Identification Code

<b>MA</b>	<b>25</b>	-	<b>X</b>	<b>X</b>	-	<b>X</b>
Series Type	Pump Size		Hardware Material	Elastomer Material		Connection Standard
MA	15: ½"		A: Aluminium	S: Santoprene		B: BSP
MEXP	25: 1"		S: Stainless steel	N: Nitrile		N: NPT
MWR	40: 1-½"		C: Cast iron	T: Teflon (PTFE)		F: Flange
DP	50: 2"		P: Polypropylene	V: Viton		
	75: 3"		K: PVDF / PTFE			

## Performance Curve



## Dimensions (mm)



### MA40 Metallic Pump



#### 1-½" Metallic Performance Specifications

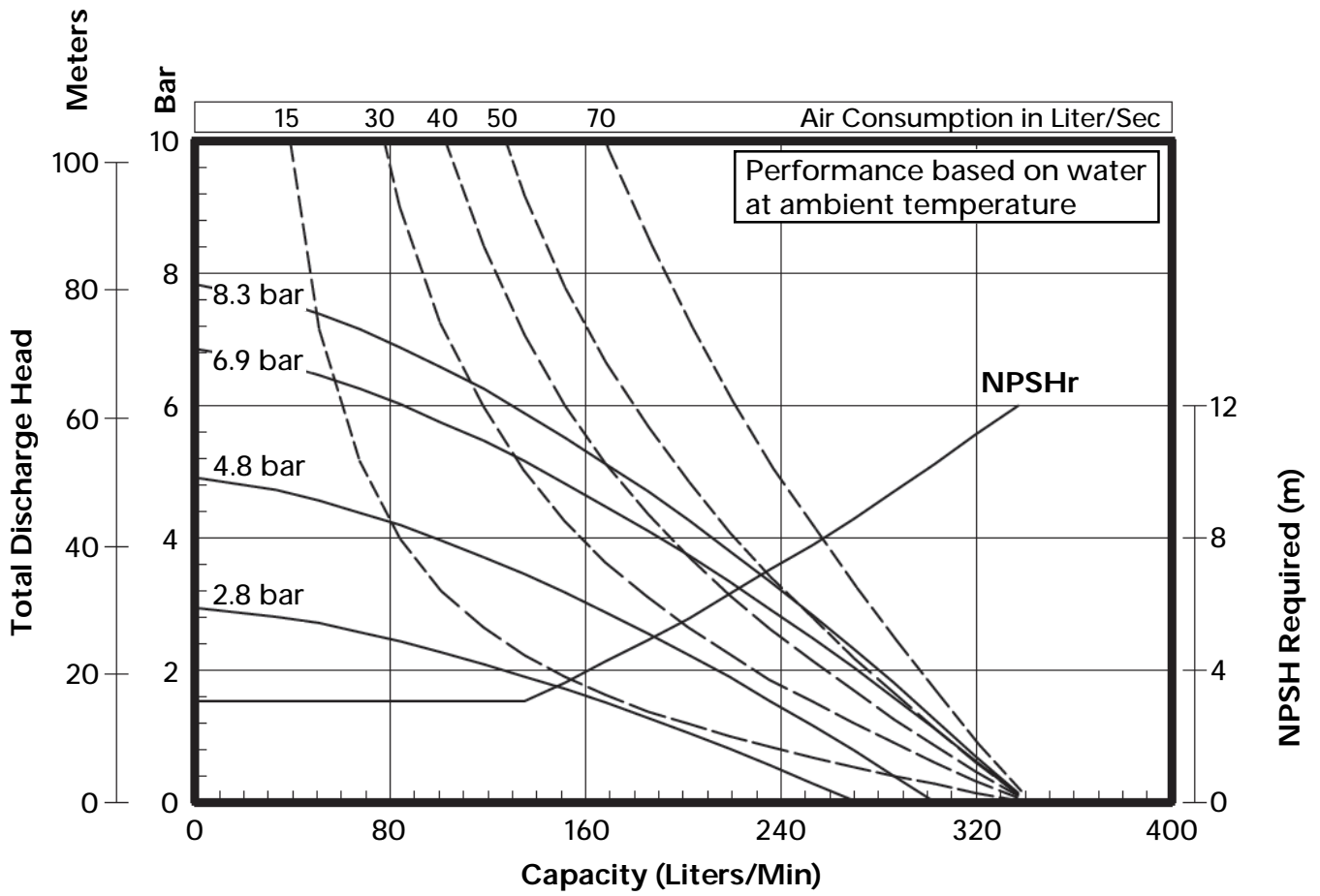
Ratio:	1 : 1
Maximum Capacity:	340 l/min (90 gpm)
Air Inlet:	½" BSP-Female
Fluid Inlet:	1-½" BSP-Female
Fluid Outlet:	1-½" BSP-Female
Max. working pressure:	8.3-bar (120 psi)
Suspended solids max. dia.:	6.4 mm (¼" inch)
Weight:	kg (lbs)
	MA40-AX (aluminum) 23.4 (51.5)
	MA40-SX (stainless steel) 38.3 (84.5)
	MA40-CX (cast iron) 36.1 (79.5)
Maximum dry suction lift:	5.4 m (17.6 ft)

#### Identification Code

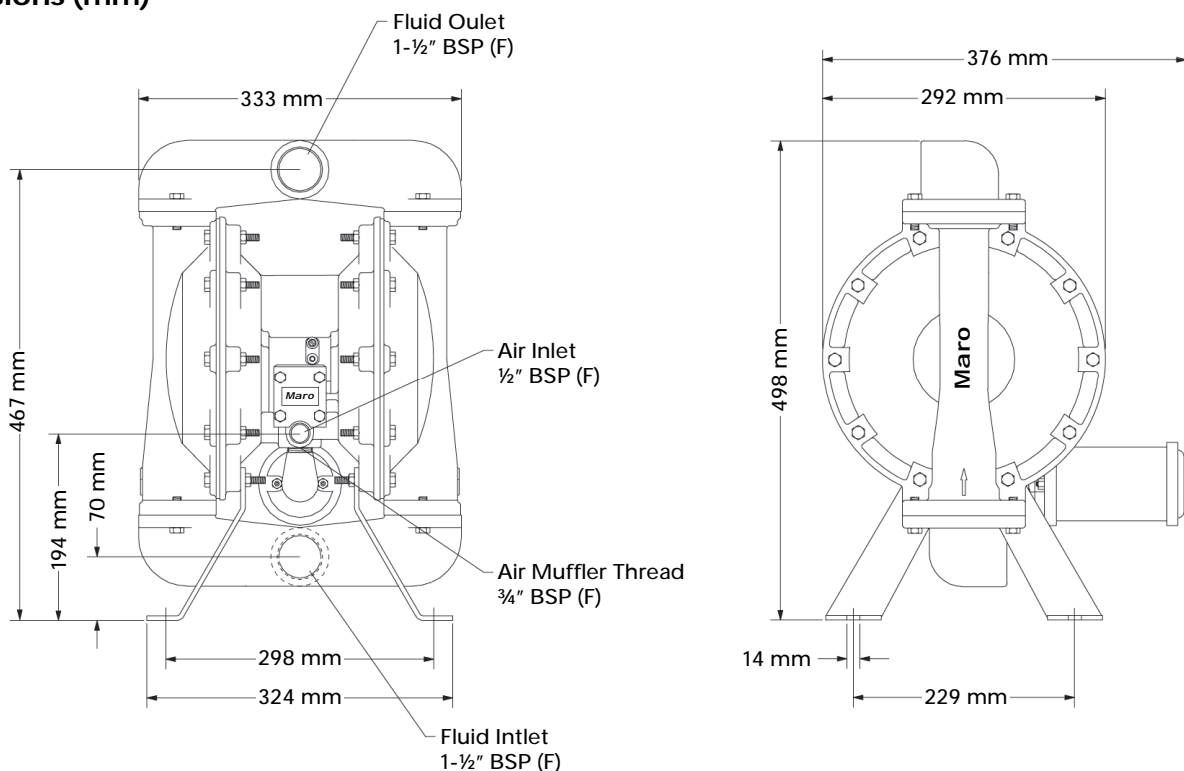
<b>MA</b>	<b>40</b>	-	<b>X</b>	<b>X</b>	-	<b>X</b>
Series Type	Pump Size		Hardware Material	Elastomer Material		Connection Standard
MA	15: ½"		A: Aluminium	S: Santoprene		B: BSP
MEXP	25: 1"		S: Stainless steel	N: Nitrile		N: NPT
MWR	40: 1-½"		C: Cast iron	T: Teflon (PTFE)		F: Flange
DP	50: 2"		P: Polypropylene	V: Viton		
	75: 3"		K: PVDF / PTFE			



## Performance Curve



## Dimensions (mm)



## MA50 Metallic Pump



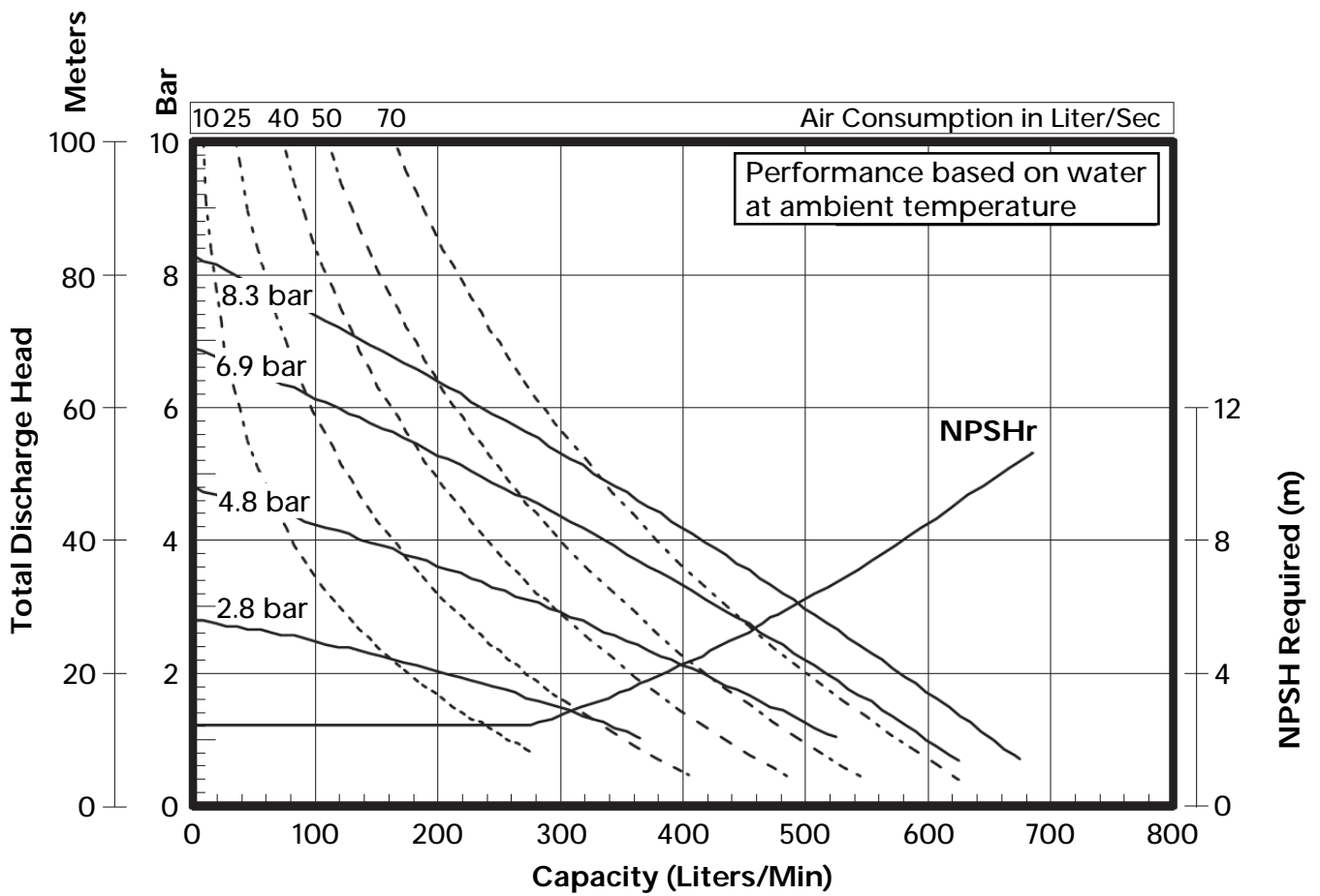
### 2" Metallic Performance Specifications

Ratio:	1 : 1
Maximum Capacity:	650 l/min (172 gpm)
Air Inlet:	¾" BSP-Female
Fluid Inlet:	2" BSP-Female
Fluid Outlet:	2" BSP-Female
Max. working pressure:	8.3-bar (120 psi)
Suspended solids max. dia.:	6.4 mm (¼" inch)
Weight:	kg (lbs)
	MA50-AX (aluminum) 29.6 (65.2)
	MA50-SX (stainless steel) 58.9 (130)
	MA50-CX (cast iron) 56.5 (124.3)
Maximum dry suction lift:	5.8 m (19 ft)

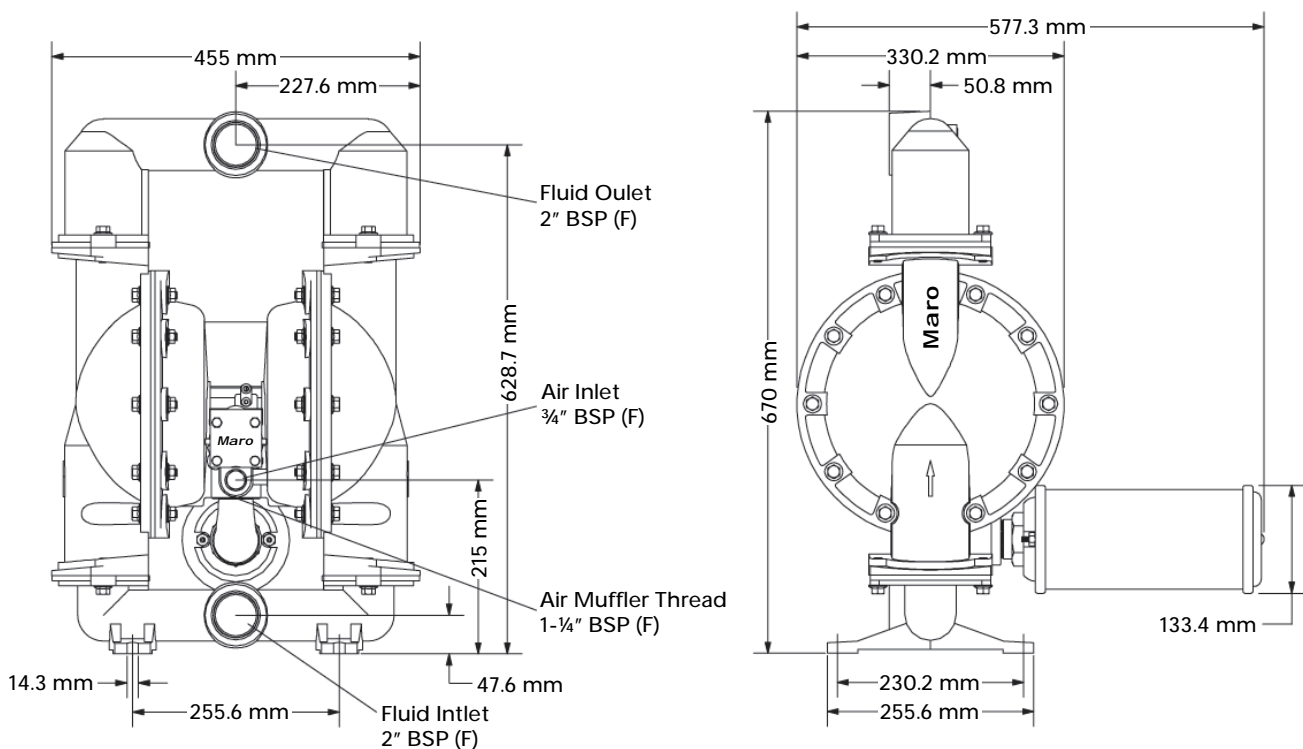
### Identification Code

<b>MA</b>	<b>50</b>	-	<b>X</b>	<b>X</b>	-	<b>X</b>
Series Type	Pump Size		Hardware Material	Elastomer Material		Connection Standard
MA MEXP MWR DP	15: ½" 25: 1" 40: 1-½" 50: 2" 75: 3"		A: Aluminium S: Stainless steel C: Cast iron P: Polypropylene K: PVDF / PTFE	S: Santoprene N: Nitrile T: Teflon (PTFE) V: Viton		B: BSP N: NPT F: Flange

## Performance Curve



## Dimensions (mm)



## MA75 Metallic Pump



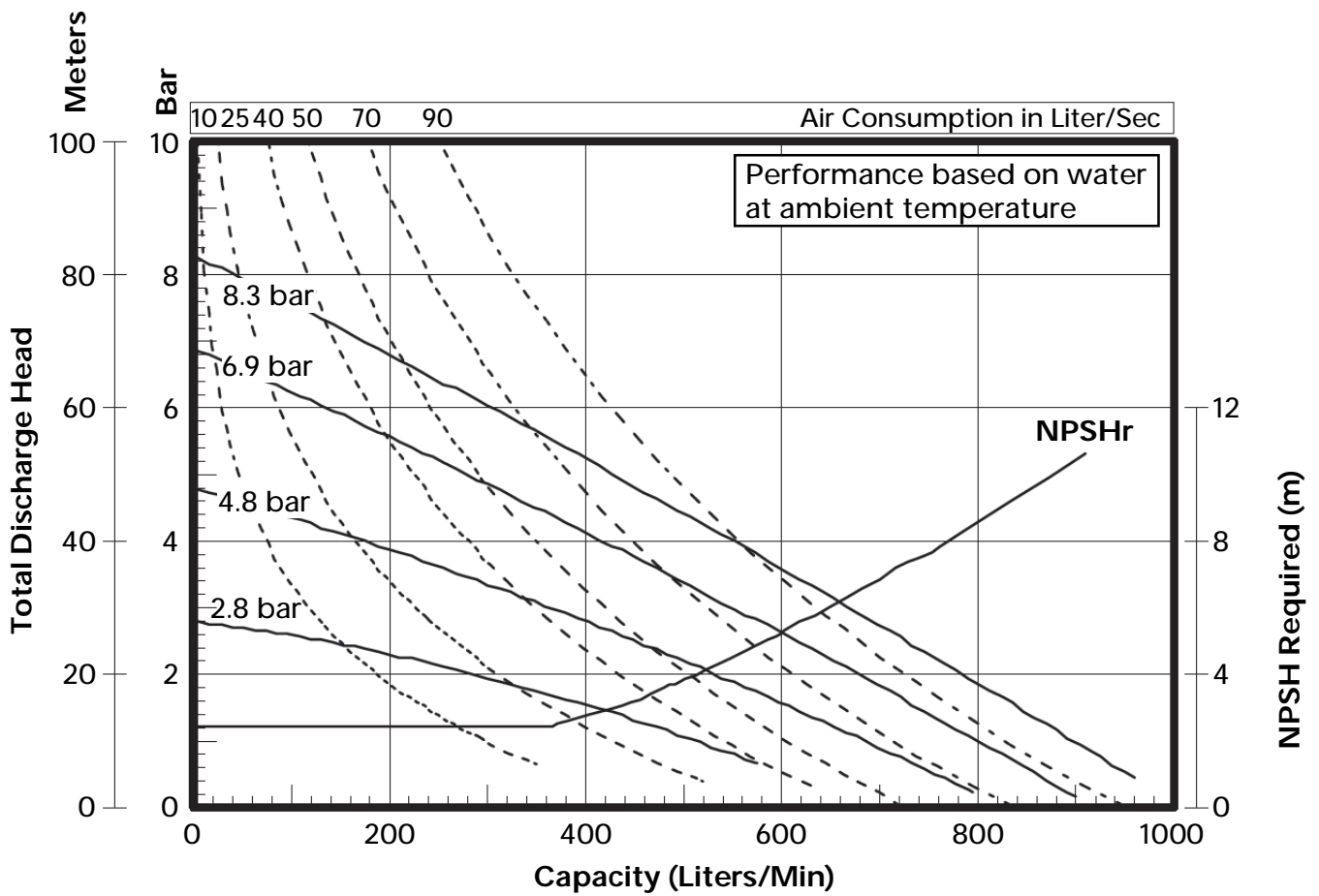
### 3" Metallic Performance Specifications

Ratio:	1 : 1
Maximum Capacity:	897 l/min (237 gpm)
Air Inlet:	3/4" BSP-Female
Fluid Inlet:	3" BSP-Female
Fluid Outlet:	3" BSP-Female
Max. working pressure:	8.3-bar (120 psi)
Suspended solids max. dia.:	9.5 mm (3/8" inch)
Weight:	kg (lbs)
	MA75-AX (aluminum) 49.8 (109.8)
	MA75-SX (stainless steel) 101 (222)
	MA75-CX (cast iron) 96.7 (213)
Maximum dry suction lift:	5.8 m (19 ft)

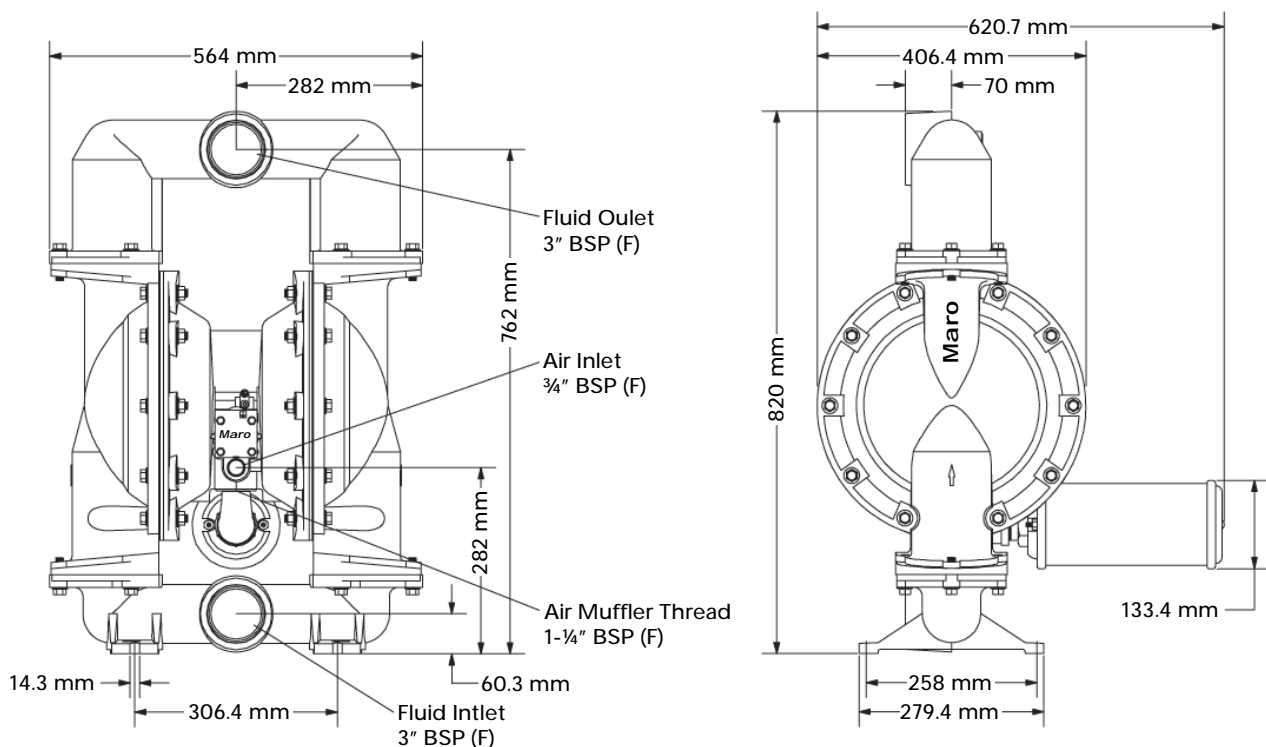
### Identification Code

<b>MA</b>	<b>75</b>	-	<b>X</b>	<b>X</b>	-	<b>X</b>
Series Type	Pump Size		Hardware Material	Elastomer Material		Connection Standard
MA MEXP MWR DP	15: 1/2" 25: 1" 40: 1-1/2" 50: 2" 75: 3"		A: Aluminium S: Stainless steel C: Cast iron P: Polypropylene K: PVDF / PTFE	S: Santoprene N: Nitrile T: Teflon (PTFE) V: Viton H: Hytrel		B: BSP N: NPT F: Flange

## Performance Curve



## Dimensions (mm)



### MEXP 50 Metallic Pump



#### 2" Metallic Performance Specifications

Ratio:	1 : 1
Maximum Capacity:	650 l/min (172 gpm)
Air Inlet:	¾" BSP-Female
Fluid Inlet:	2" BSP-Female
Fluid Outlet:	2" BSP-Female
Max. working pressure:	8.3-bar (120 psi)
Suspended solids max. dia.:	6.4 mm (¼" inch)
Weight:	MEXP 50-AX (aluminum) 30 Kg

Maximum dry suction lift: 5.8 m (19 ft)

#### Identification Code

<b>MEXP</b>	<b>50</b>	-	<b>X</b>	<b>X</b>	-	<b>X</b>
Series Type	Pump Size		Hardware Material	Elastomer Material		Connection Standard
MA MEXP MWR DP	15: ½" 25: 1" 40: 1-½" 50: 2" 75: 3"		A: Aluminium S: Stainless steel C: Cast iron P: Polypropylene K: PVDF / PTFE	S: Santoprene N: Nitrile T: Teflon (PTFE) V: Viton		B: BSP N: NPT F: Flange

### MWR 75 Metallic Pump



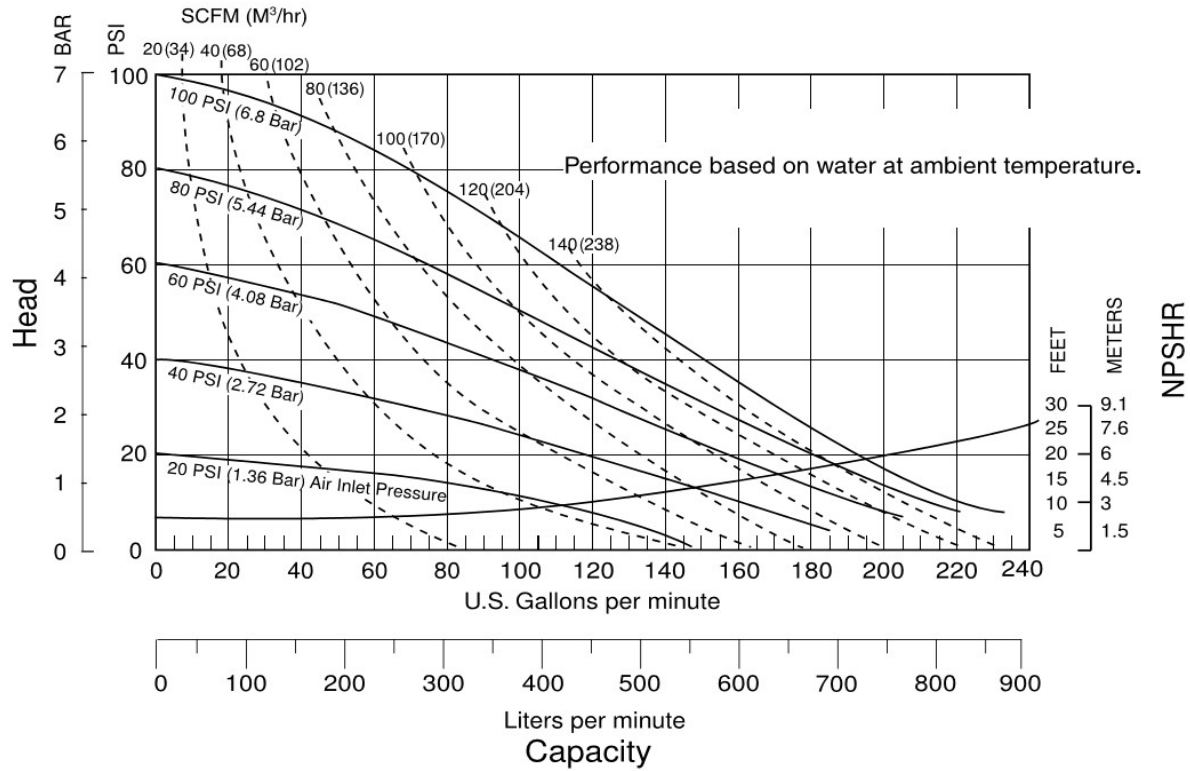
#### 3" Metallic Performance Specifications

Ratio:	1 : 1
Maximum Capacity:	889 l/min (235 gpm)
Air Inlet:	3/4" BSP-Female
Fluid Inlet:	3" BSP-Female
Fluid Outlet:	3" BSP-Female
Max. working pressure:	8.3-bar (120 psi)
Suspended solids max. dia.:	6 mm (1/4" inch)
Weight:	kg (lbs)
	MWR 75-AX (aluminum) 52 (113)
Maximum dry suction lift:	5.8 m (19 ft)

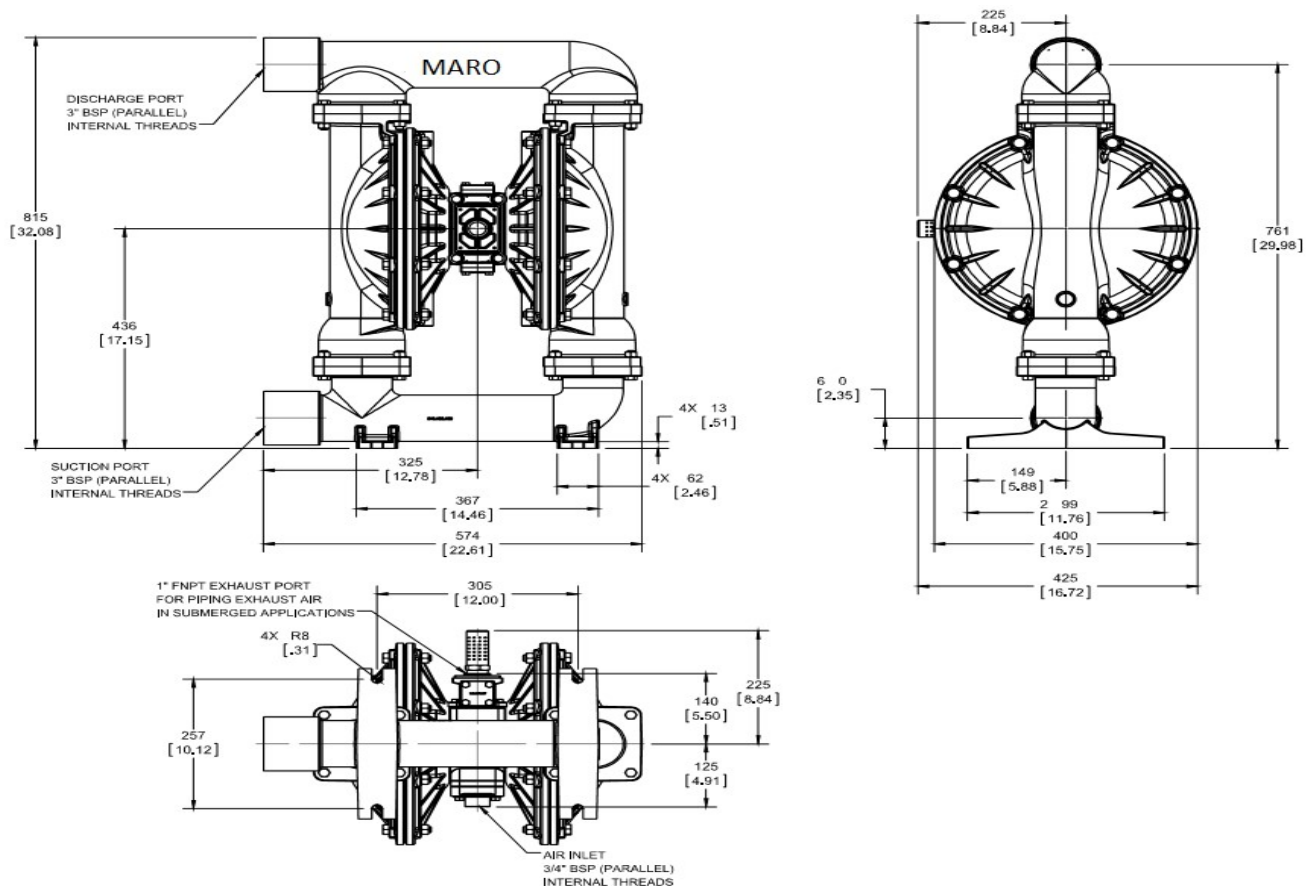
#### Identification Code

<b>MA</b>	<b>75</b>	-	<b>X</b>	<b>X</b>	-	<b>X</b>
Series Type	Pump Size		Hardware Material	Elastomer Material		Connection Standard
MA MEXP MWR DP	15: 1/2" 25: 1" 40: 1-1/2" 50: 2" 75: 3"		A: Aluminium S: Stainless steel C: Cast iron P: Polypropylene K: PVDF / PTFE	S: Santoprene N: Nitrile T: Teflon (PTFE) V: Viton H: Hytrel		B: BSP N: NPT F: Flange

## Performance Curve

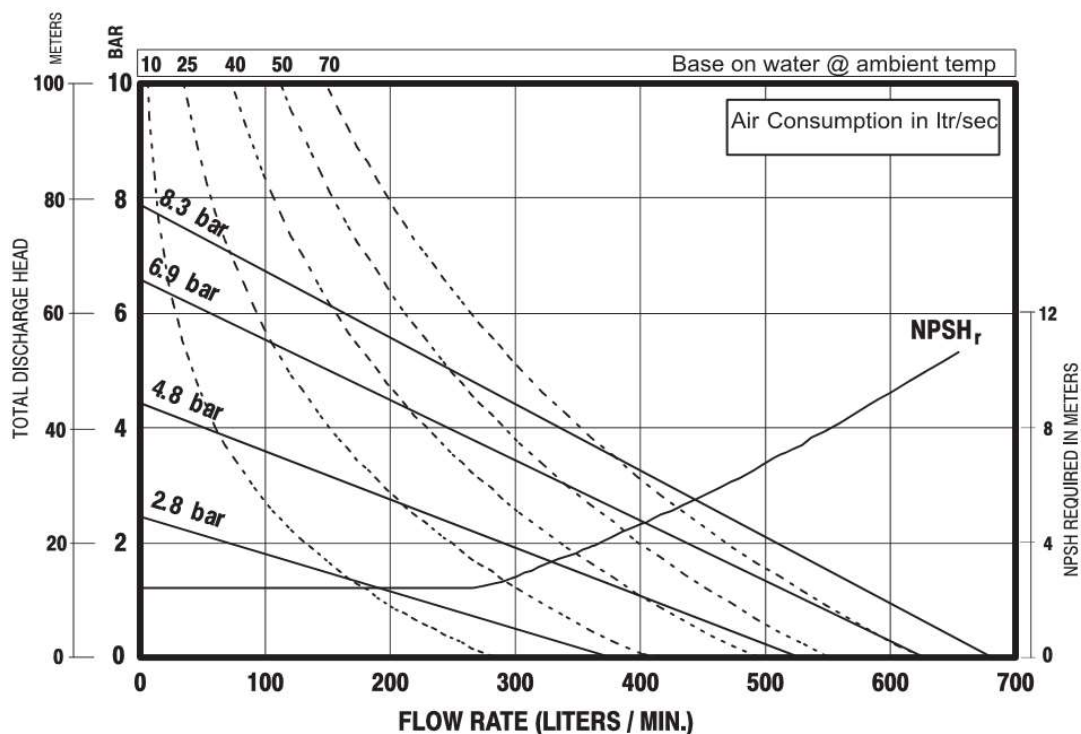


## Dimensions (mm)

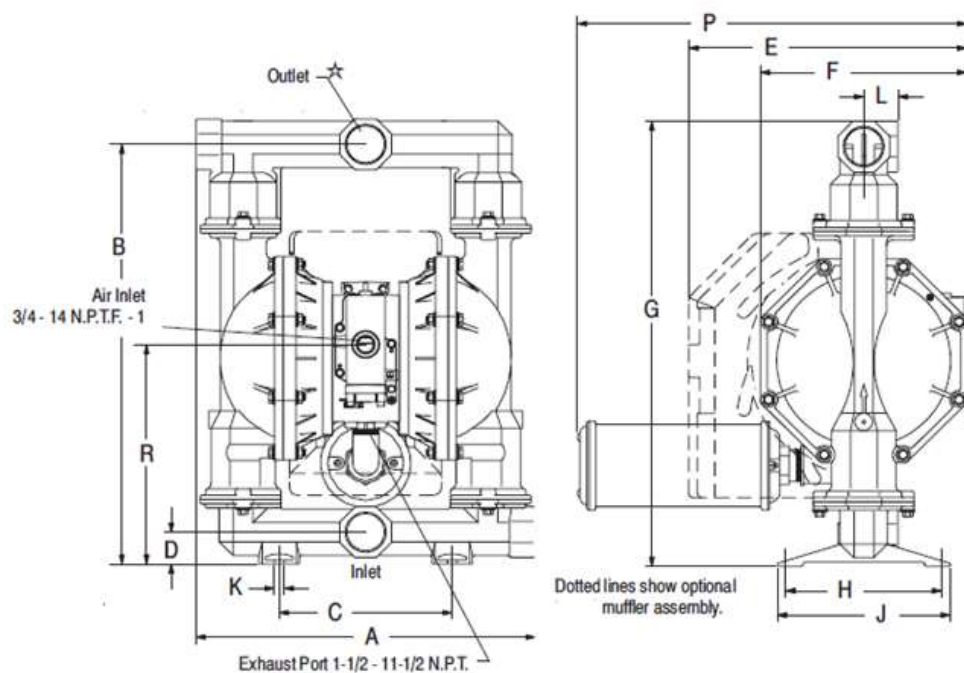




## Performance Curve



## Dimensions (mm)



### DIMENSIONS

A	see below	G	26-1/4" (666.8 mm)	M	5/8" (15.9 mm)
B	24-3/4" (628.7 mm)	H	9-1/16" (230.2 mm)	N	4.834" (122.8 mm)
C	10-1/16" (255.6 mm)	J	10-1/16" (255.6 mm)	P	21-5/8" (548 mm)
D	see below	K	9/16" (14.3 mm)	Q	27-7/8" (708.0 mm)
E	16-3/16" (411.2 mm)	L	2" (50.8 mm)	R	12-15/16" (328.6 mm)
F	12" (304.8 mm)				

MARO are always on hand to provide replacement diaphragm parts. We are covering a wide range of different pump brand parts. In addition, we committed to supply Quality products with Competitive Pricing.

- Replacement Parts that fit Wilden® | After-Market Parts
- Replacement Parts that fit ARO® | After-Market Parts
- Replacement Parts that fit Warren Rupp® | After-Market Parts
- And many others brands.



MARO reserves the right to alter specifications at any time without prior notice.

# Maro

Distributed by: