

Serie
Series

B

BOMBAS DE DIAFRAGMA

DIAPHRAGM PUMP

POMPE A DIAHRAGME



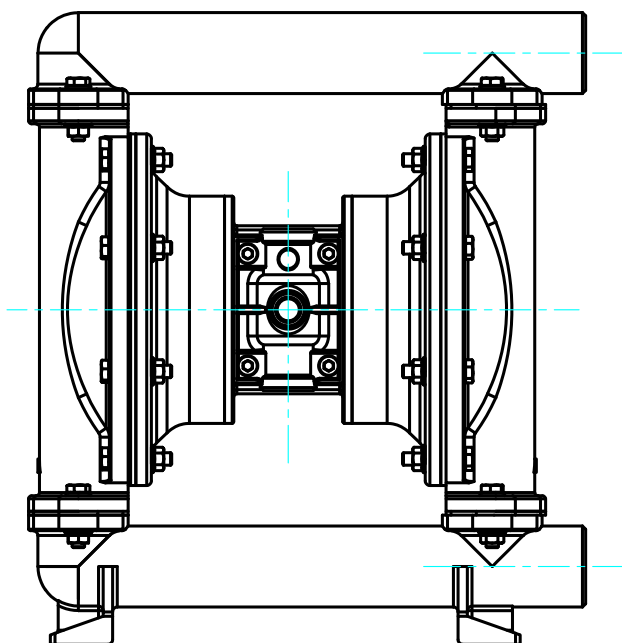
pumps

pumpen

azcue

bombas

pompes





B

— 06

15
25
40
50
75

Tamaños
Sizes

Serie
Series

Diseño:

- Bomba de doble diafragma
- Temperatura max. 100°C (estandar)
- Temperatura max. 180°C (bajo demanda)

Design:

- Double diaphragm pump.
- Max. temp. 100°C (standard)
- Max. temp. 180°C (special request)

Desin:

- Pompe double diaphragme
- Temperature max. 100°C (standard)
- Temperature max. 180°C (a la demande)

DESCRIPCIÓN

Bomba de doble diafragma auto-aspirante con accionamiento neumático.
Diferentes combinaciones de materiales según el fluido a bombear.
Especialmente diseñadas para ambientes explosivos.

DESCRIPTION

Self-priming double-diaphragm air driven pump.
Extensive pump range materials depending handling fluid.
Specially designed to work in explosion areas.

APLICACIONES/SERVICIOS

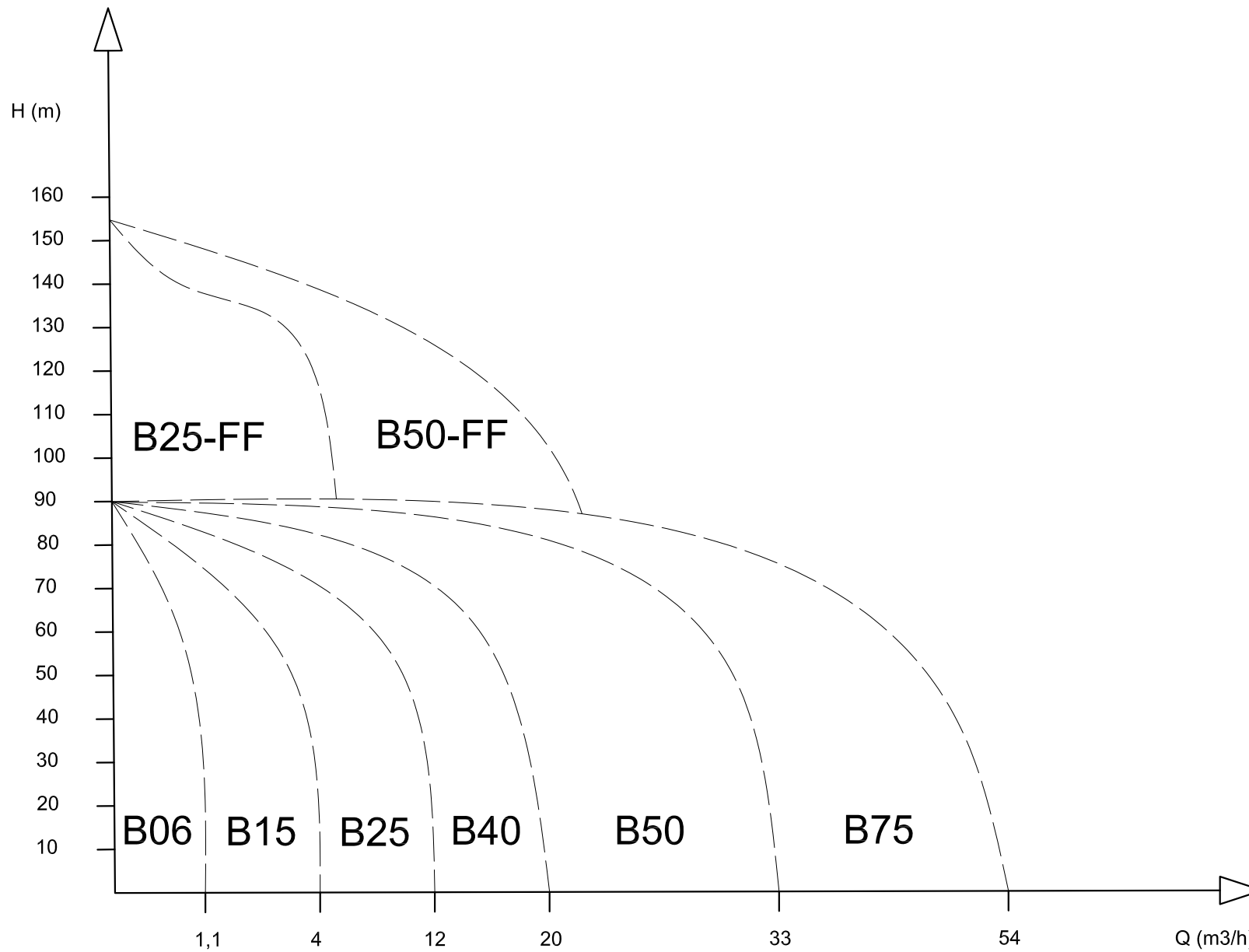
- + Marina
- + Aguas sucias
- + Industria Química/Petroquímica
- + Industria Alimentaria
- + Agricultura
- + Pinturas, resinas, ..

APPLICATIONS/SERVICES

- + Marine
- + Wastewater
- + Chemical/Petrochemical industry
- + Food & Beverage industry
- + Agriculture Farming
- + Paint, resins, ..

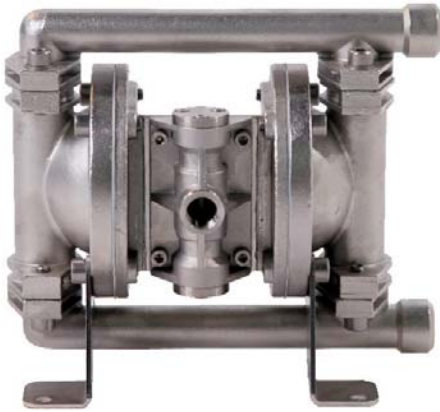


azcue
pumps





azcue
pumps



B06

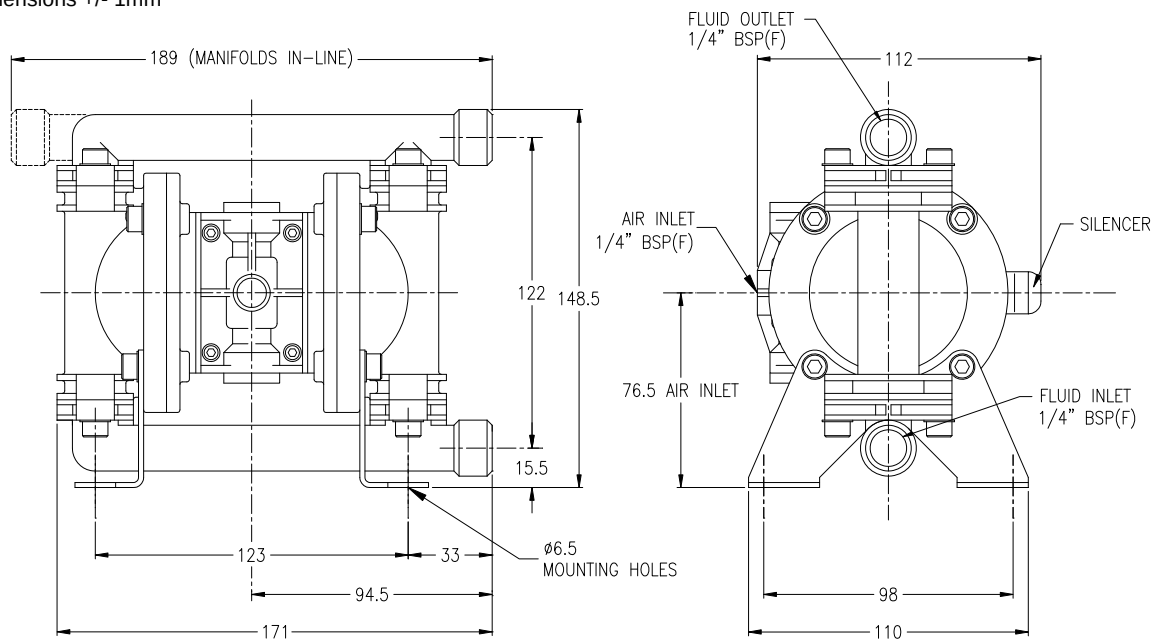
AIR OPERATED DOUBLE DIAPHRAGM PUMP

Metallic Series

B06

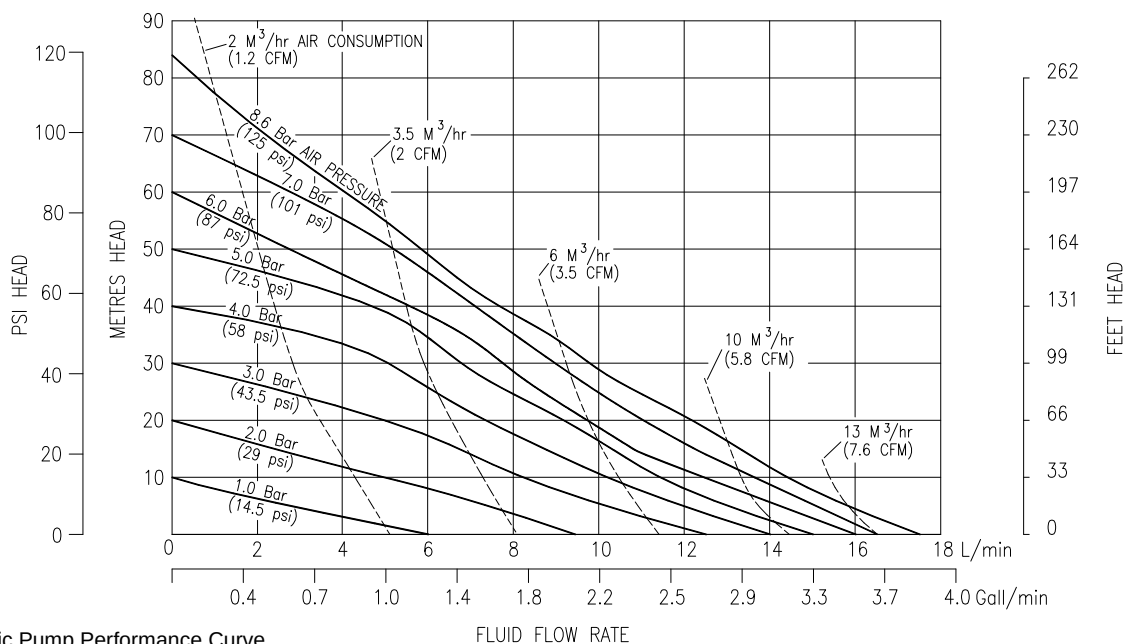
DIMENSIONS

General Assembly :- B06 Metallic Pump
All dimensions +/- 1mm



B06

PERFORMANCE



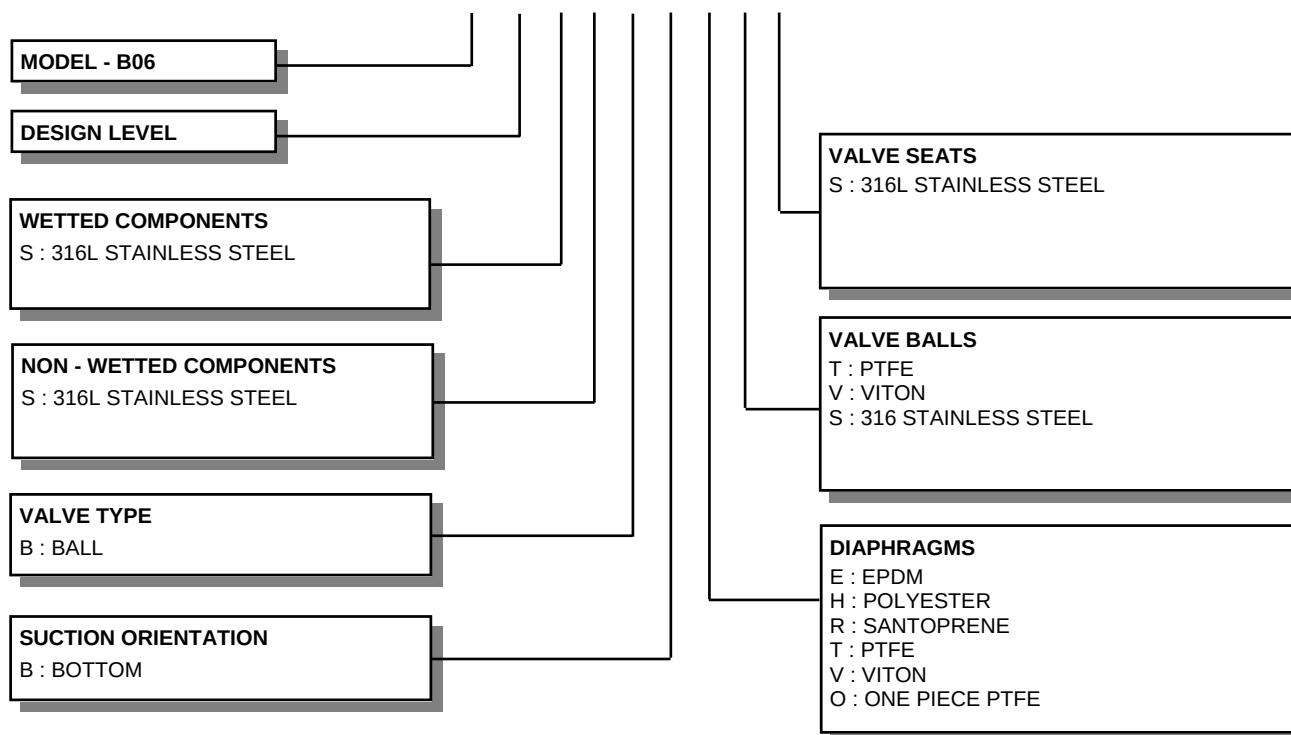
B06 Metallic Pump Performance Curve
Performance based on water at ambient temperature


B06
SPECIFICATIONS

FLUID CONNECTIONS	CAPACITY	MAX SOLIDS	MAX DISCHARGE HEAD	DISPLACEMENT/STROKE
1/4" BSP(F)	0 - 18 Litres/Minute (0 - 3.9 Gallons/Minute)	1 MM (1/16")	88 Meters (289 ft)	0.022 Litres (0.0049 UK Gallons)
MAX. WORKING PRESSURE	AIR INLET	TEMPERATURE LIMITS		PUMP WEIGHTS :-
8.6 Bar (125 psi)	1/4" BSP (F)	Determined by Elastomers		SS :- 4.0 Kg

ⓘ Caution - Operating temperature limitations are as follows:
Operating Temperatures

Materials	Maximum	Minimum	Optimum
EPDM - Shows very good water and chemical resistance. Has poor resistance to oils and solvents, but is fair on ketones and alcohols.	212°F 100°C	-11°F -24°C	50° to 212°F 10° to 100°C
Santoprene® - Injection moulded thermoplastic elastomer with no fabric layer. Long mechanical flex life. Excellent abrasion resistance.	212°F 100°C	-10°F -23°C	50° to 212°F 10° to 100°C
PTFE - Chemically inert, virtually impervious. Very few chemicals are known to react chemically with PTFE : molten alkali metals, turbulent liquid or gaseous fluorine and a few fluoro-chemicals such as chlorine trifluoride or oxygen difluoride which readily liberate free fluorine at elevated temperatures.	356°F 180°C	32°F 0°C	50° to 212°F 10° to 100°C
Viton® - Shows good resistance to a wide range of oils and solvents : especially all aliphatic, aromatic and halogenated hydrocarbons, acids, animal and vegetable oils.	356°F 180°C	0°F -18°C	75° to 212°F 24° to 100°C

B06
PUMP CODE
TYPICAL CODE = B06.04.S S. B B. E T S




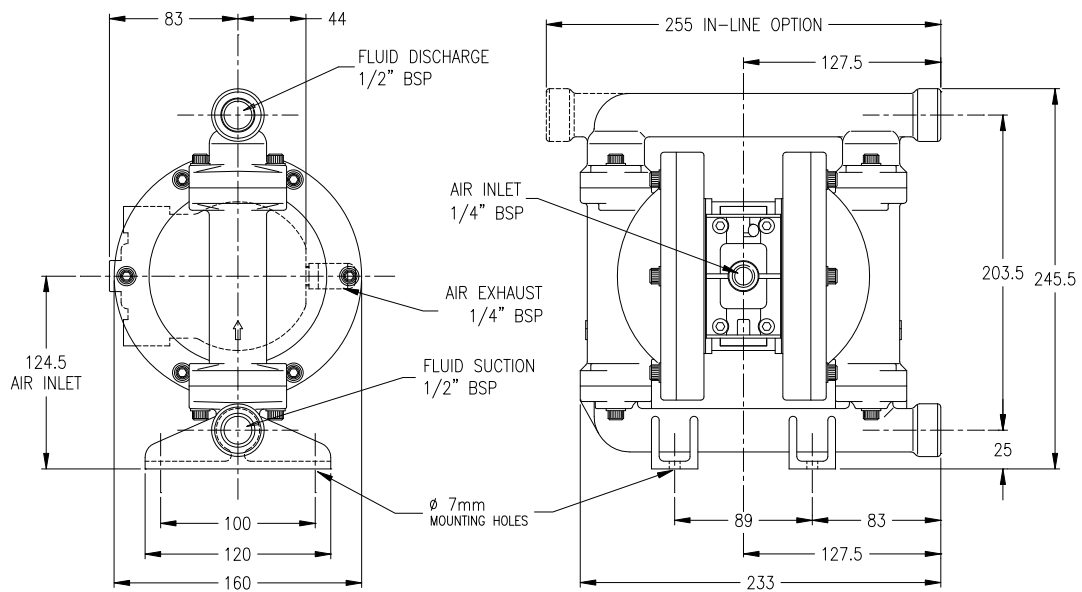
B15

AIR OPERATED DOUBLE DIAPHRAGM PUMP

Aluminium Series

B15

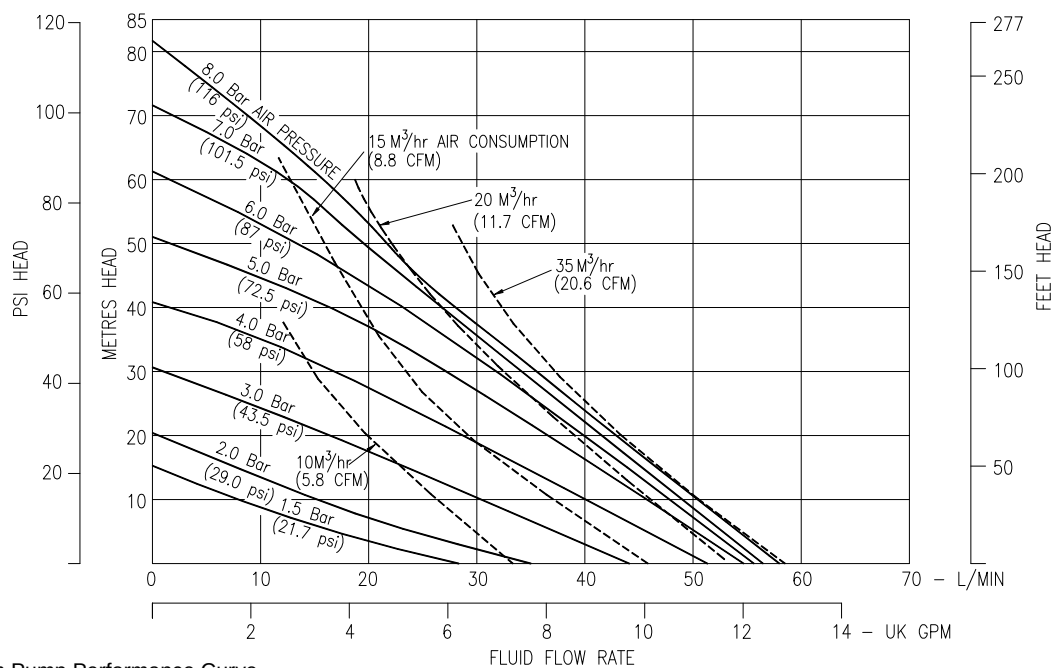
DIMENSIONS



General Assembly :- B15 Aluminium Pump
All dimensions +/- 2mm

B15

PERFORMANCE



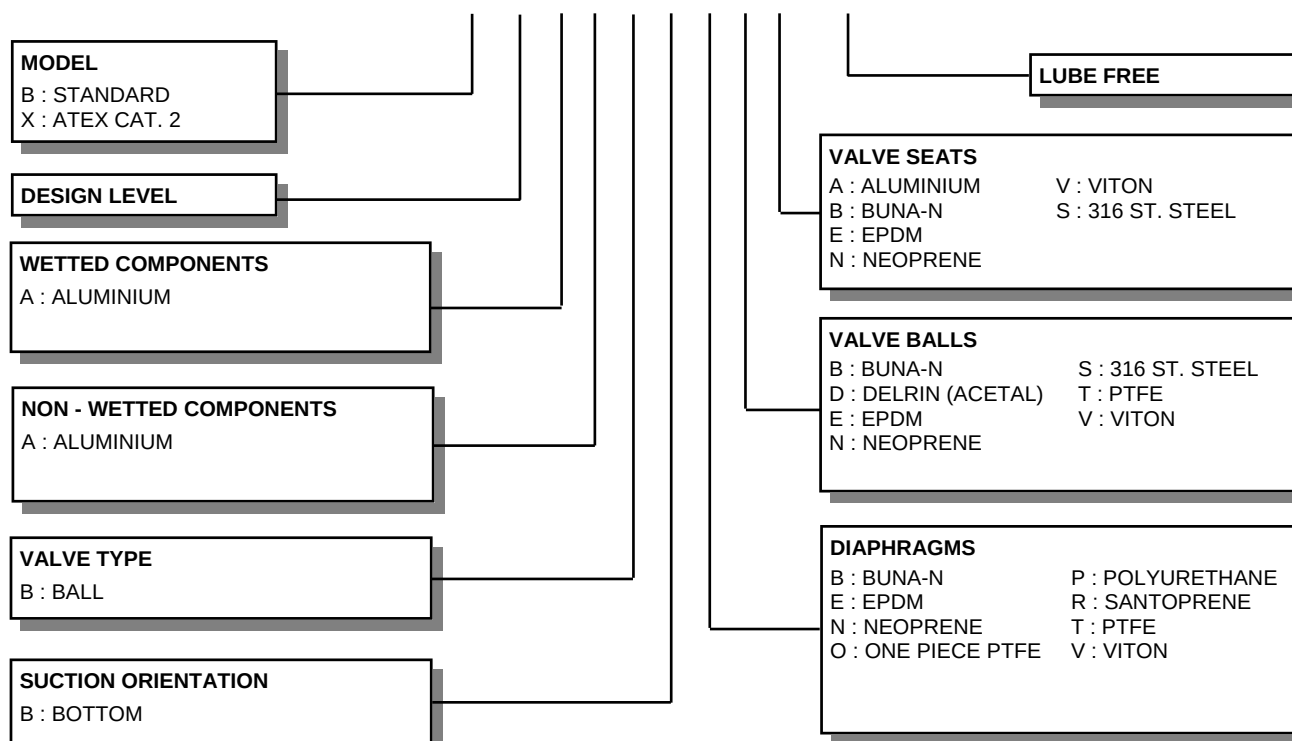
B15 Aluminium Pump Performance Curve
Performance based on water at ambient temperature

B15
SPECIFICATIONS

FLUID CONNECTIONS	CAPACITY	MAX SOLIDS	MAX DISCHARGE HEAD	DISPLACEMENT/STROKE
1/2" BSP(F)	0 - 58 Litres/Minute (0 - 12.7 Gallons/Minute)	2 MM (5/64")	88 Meters (289 ft)	0.075 Litres (0.02 UK Gallons)
MAX. WORKING PRESSURE	AIR INLET	TEMPERATURE LIMITS		PUMP WEIGHTS :-
8.6 Bar (125 psi)	1/4" BSP (F)	Determined by Elastomers		AA :- 4.8 Kg

ⓘ Caution - Operating temperature limitations are as follows:

Materials	Operating Temperatures		
	Maximum	Minimum	Optimum
Buna-n - General purpose, oil resistant. Shows good solvent, oil, water and hydraulic fluid resistance. Should not be used with highly polar solvents like acetone and MEK, ozone, chlorinated hydrocarbons and nitro hydrocarbons.	176°F 80°C	-18°F -28°C	50° to 140°F 10° to 60°C
EPDM - Shows very good water and chemical resistance. Has poor resistance to oils and solvents, but is fair on ketones and alcohols.	212°F 100°C	-11°F -24°C	50° to 212°F 10° to 100°C
Neoprene - All purpose. Resistant to vegetable oil. Generally not affected by moderate chemicals, fats greases and many oils and solvents. Generally attacked by strong oxidising acids, ketones, esters, nitro hydro carbons and chlorinated aromatic hydrocarbons.	212°F 100°C	-4°F -20°C	50° to 130°F 10° to 54°C
Santoprene® - Injection moulded thermoplastic elastomer with no fabric layer. Long mechanical flex life. Excellent abrasion resistance.	212°F 100°C	-10°F -23°C	50° to 212°F 10° to 100°C
PTFE - Chemically inert, virtually impervious. Very few chemicals are known to react chemically with PTFE : molten alkali metals, turbulent liquid or gaseous fluorine and a few fluoro-chemicals such as chlorine trifluoride or oxygen difluoride which readily liberate free fluorine at elevated temperatures.	356°F 180°C	32°F 0°C	50° to 212°F 10° to 100°C
Viton® - Shows good resistance to a wide range of oils and solvents : especially all aliphatic, aromatic and halogenated hydrocarbons, acids, animal and vegetable oils.	356°F 180°C	0°F -18°C	75° to 212°F 24° to 100°C

B15
PUMP CODE
TYPICAL CODE = B15.01.A A. B B. E T S - L F




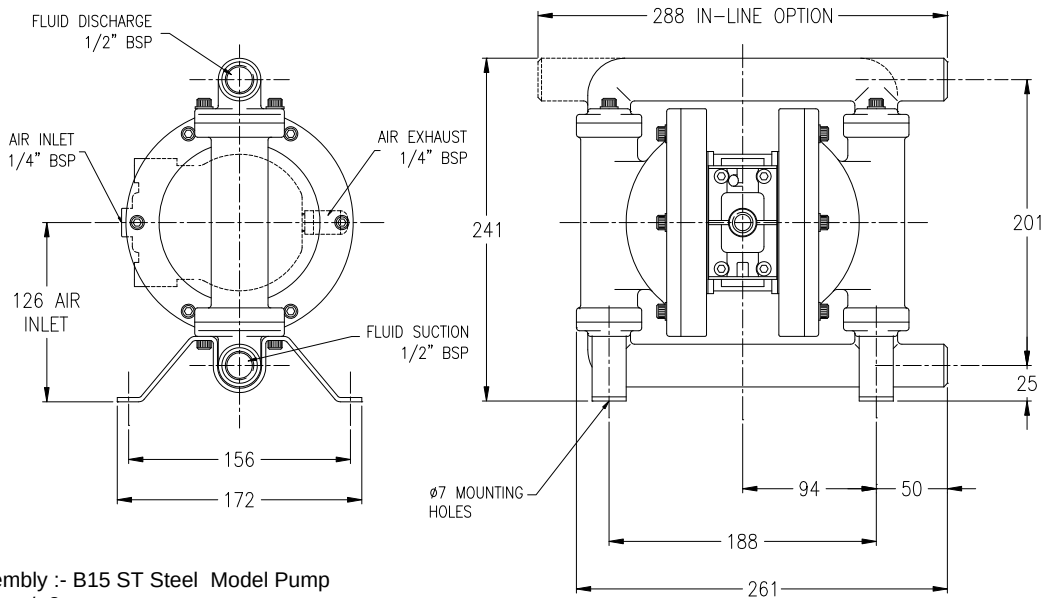
B15

AIR OPERATED DOUBLE DIAPHRAGM PUMP

Stainless Steel

B15

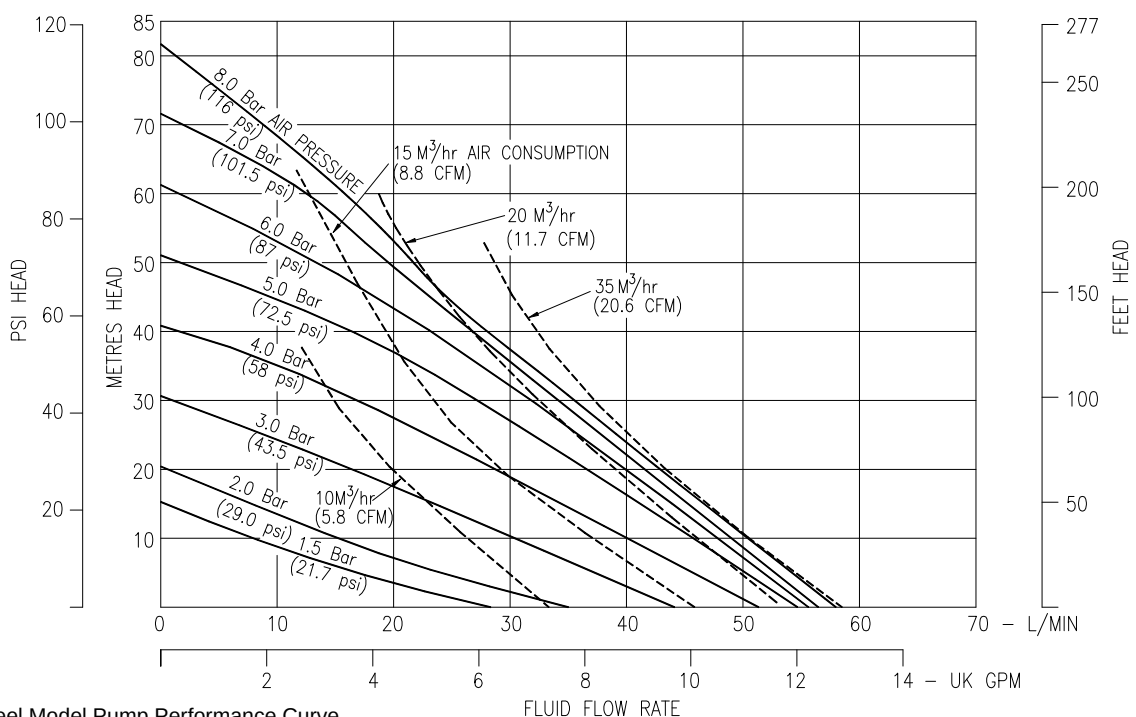
DIMENSIONS



General Assembly :- B15 ST Steel Model Pump
All dimensions +/- 2mm

B15

PERFORMANCE



B15 ST Steel Model Pump Performance Curve
Performance based on water at ambient temperature

B15
SPECIFICATIONS

FLUID CONNECTIONS 1/2" BSP(F)	CAPACITY 0 - 58 Litres/Minute (0 - 12.7 Gallons/Minute)	MAX SOLIDS 2 MM (5/64")	MAX DISCHARGE HEAD 88 Meters (289 ft)	DISPLACEMENT/STROKE 0.075 Litres (0.02 UK Gallons)
MAX. WORKING PRESSURE 8.6 Bar (125 psi)	AIR INLET 1/4" BSP (F)	TEMPERATURE LIMITS Determined by Elastomers		PUMP WEIGHTS :- SA :- 8.7 Kg SS :- 12.2 Kg

ⓘ Caution - Operating temperature limitations are as follows:

Operating Temperatures

Materials

Maximum

Minimum

Optimum

Buna-n - General purpose, oil resistant. Shows good solvent, oil, water and hydraulic fluid resistance. Should not be used with highly polar solvents like acetone and MEK, ozone, chlorinated hydrocarbons and nitro hydrocarbons.

176°F
80°C

-18°F
-28°C

50° to 140°F
10° to 60°C

EPDM - Shows very good water and chemical resistance. Has poor resistance to oils and solvents, but is fair on ketones and alcohols.

212°F
100°C

-11°F
-24°C

50° to 212°F
10° to 100°C

Neoprene - All purpose. Resistant to vegetable oil. Generally not affected by moderate chemicals, fats greases and many oils and solvents. Generally attacked by strong oxidising acids, ketones, esters, nitro hydro carbons and chlorinated aromatic hydrocarbons.

212°F
100°C

-4°F
-20°C

50° to 130°F
10° to 54°C

Santoprene® - Injection moulded thermoplastic elastomer with no fabric layer. Long mechanical flex life. Excellent abrasion resistance.

212°F
100°C

-10°F
-23°C

50° to 212°F
10° to 100°C

PTFE - Chemically inert, virtually impervious. Very few chemicals are known to react chemically with PTFE : molten alkali metals, turbulent liquid or gaseous fluorine and a few fluoro-chemicals such as chlorine trifluoride or oxygen difluoride which readily liberate free fluorine at elevated temperatures.

356°F
180°C

32°F
0°C

50° to 212°F
10° to 100°C

Viton® - Shows good resistance to a wide range of oils and solvents : especially all aliphatic, aromatic and halogenated hydrocarbons, acids, animal and vegetable oils.

356°F
180°C

0°F
-18°C

75° to 212°F
24° to 100°C

B15
PUMP CODE

TYPICAL CODE = B15.01.S A. B B. E T S - L F

MODEL

B15 : STANDARD
X15 : ATEX CAT. 2

DESIGN LEVEL
WETTED COMPONENTS

S : 316L STAINLESS STEEL

NON - WETTED COMPONENTS

A : ALUMINIUM

VALVE TYPE

B : BALL

SUCTION ORIENTATION

B : BOTTOM

LUBE FREE
VALVE SEATS

S : 316L STAINLESS STEEL

VALVE BALLS

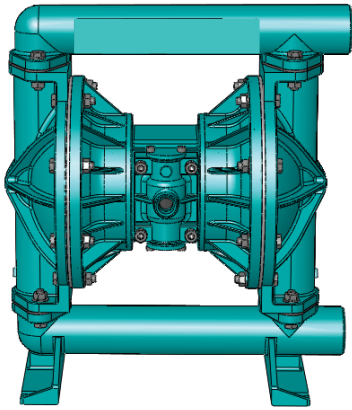
B : BUNA-N
D : DELRIN (ACETAL)
E : EPDM
N : NEOPRENE

S : 316 ST. STEEL
T : PTFE
V : VITON

DIAPHRAGMS

B : BUNA-N
E : EPDM
N : NEOPRENE
O : ONE PIECE PTFE

P : POLYURETHANE
R : SANTOPRENE
T : PTFE
V : VITON



B25 & X25

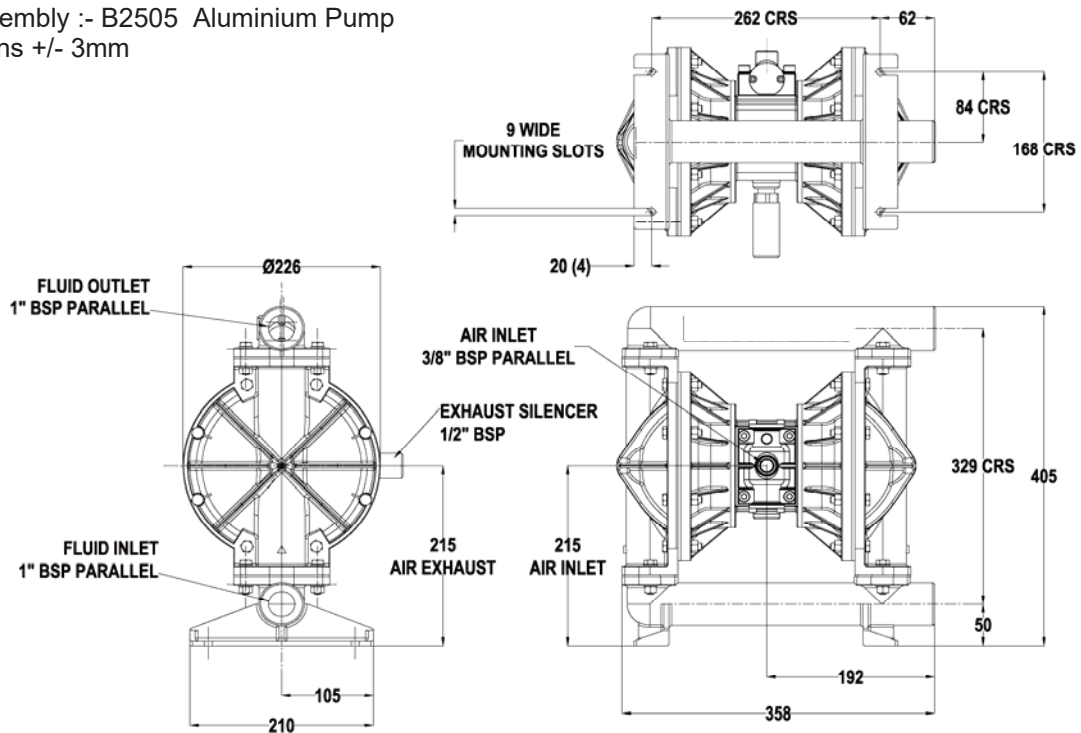
AIR OPERATED DOUBLE DIAPHRAGM PUMP

Metallic '05' Series

B25

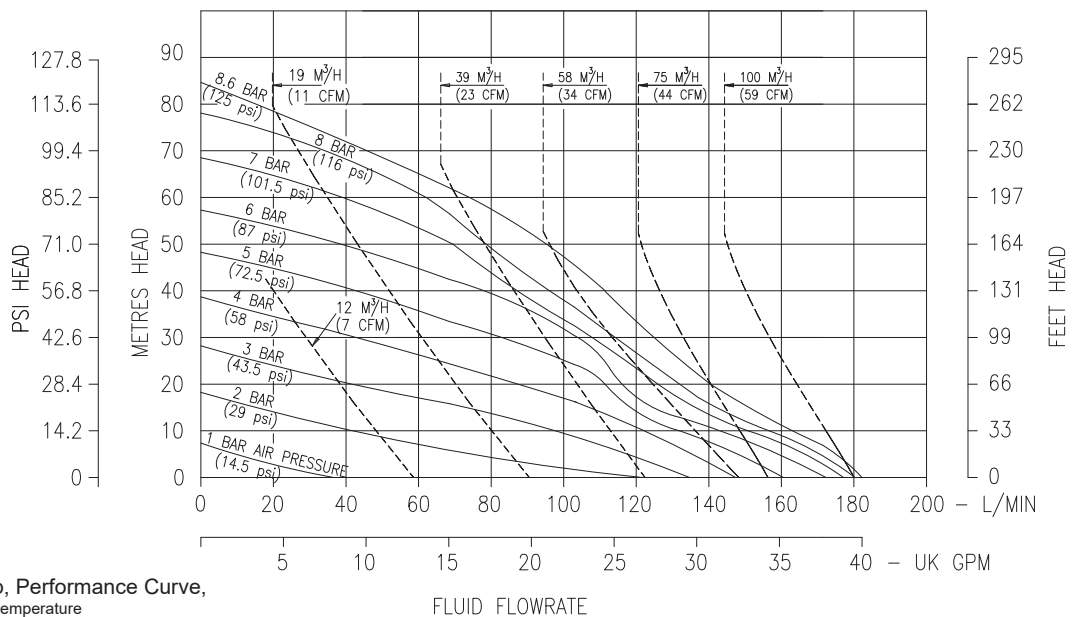
DIMENSIONS

General Assembly :- B2505 Aluminium Pump
All dimensions +/- 3mm



B25

PERFORMANCE



B2505 Metallic Pump, Performance Curve,
based on water at ambient temperature

B25
SPECIFICATIONS

FLUID CONNECTIONS	CAPACITY	MAX SOLIDS	MAX DISCHARGE HEAD	DISPLACEMENT/STROKE
1" BSP(F)	0 - 180 Liters/Minute (0 - 40 Gallons/Minute)	3 MM (1/8")	88 Meters (289 ft)	0.475 Litres (0.1 UK Gallons)
MAX. WORKING PRESSURE	AIR INLET	TEMPERATURE LIMITS		PUMP WEIGHTS :-
8.6 Bar (125 psi)	3/8" BSP (F)	Determined by Elastomers		AA :- 13.5 Kg SA :- 22.5 Kg CA :- 22.5 Kg SS :- 32.5 Kg

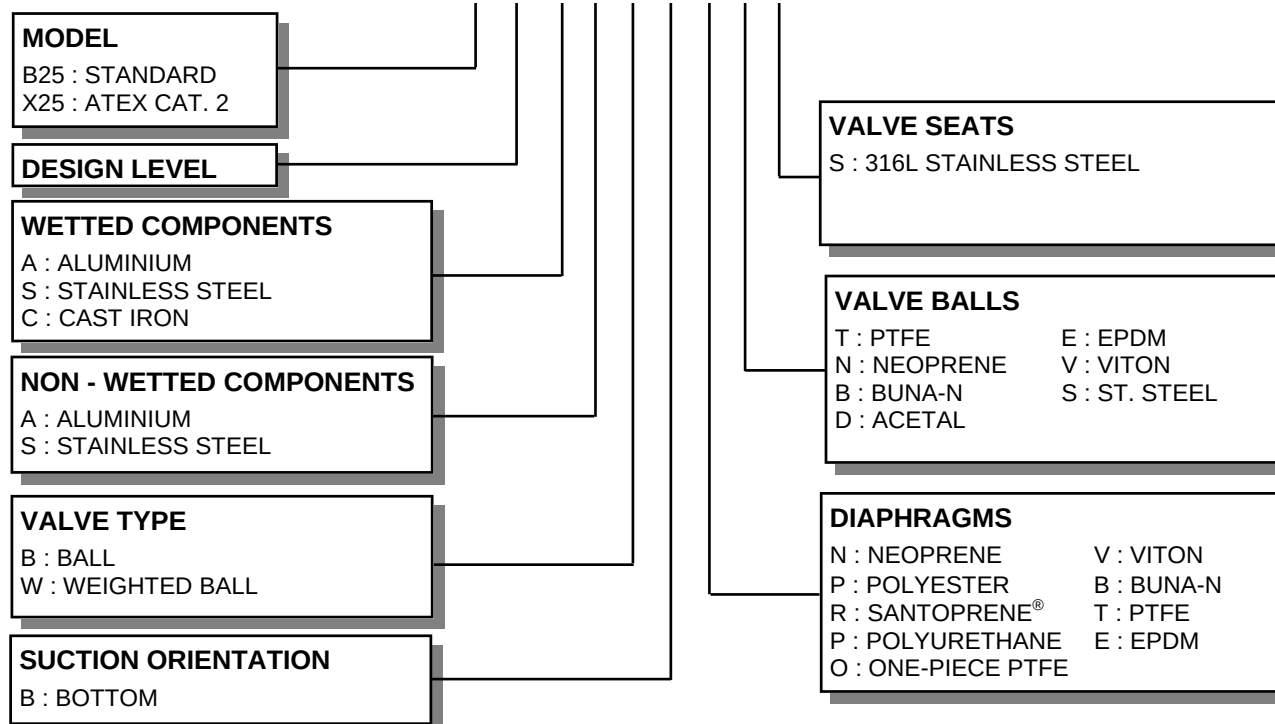
ⓘ **Caution - Operating temperature limitations are as follows:**

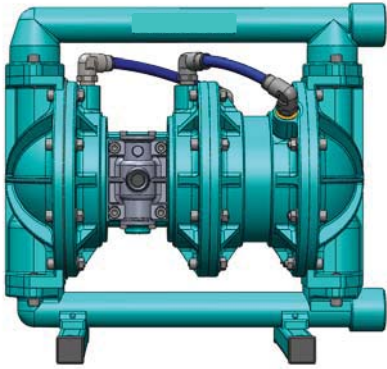
Operating Temperatures

Materials	Maximum	Minimum	Optimum
Buna-n - General purpose, oil resistant. Shows good solvent, oil, water and hydraulic fluid resistance. Should not be used with highly polar solvents like acetone and MEK, ozone, chlorinated hydrocarbons and nitro hydrocarbons.	176°F 80°C	-18°F -28°C	50° to 140°F 10° to 60°C
EPDM - Shows very good water and chemical resistance. Has poor resistance to oils and solvents, but is fair on ketones and alcohols.	212°F 100°C	-11°F -24°C	50° to 212°F 10° to 100°C
Neoprene - All purpose. Resistant to vegetable oil. Generally not affected by moderate chemicals, fats greases and many oils and solvents. Generally attacked by strong oxidising acids, ketones, esters, nitro hydro carbons and chlorinated aromatic hydrocarbons.	212°F 100°C	-4°F -20°C	50° to 130°F 10° to 54°C
Santoprene® - Injection moulded thermoplastic elastomer with no fabric layer. Long mechanical flex life. Excellent abrasion resistance.	212°F 100°C	-10°F -23°C	50° to 212°F 10° to 100°C
PTFE - Chemically inert, virtually impervious. Very few chemicals are known to react chemically with PTFE : molten alkali metals, turbulent liquid or gaseous fluorine and a few fluoro-chemicals such as chlorine trifluoride or oxygen difluoride which readily liberate free fluorine at elevated temperatures.	356°F 180°C	32°F 0°C	50° to 212°F 10° to 100°C
Viton® - Shows good resistance to a wide range of oils and solvents : especially all aliphatic, aromatic and halogenated hydrocarbons, acids, animal and vegetable oils.	356°F 180°C	0°F -18°C	75° to 212°F 24° to 100°C

B25
PUMP CODE

TYPICAL CODE = B2505.A A. B B. N N S





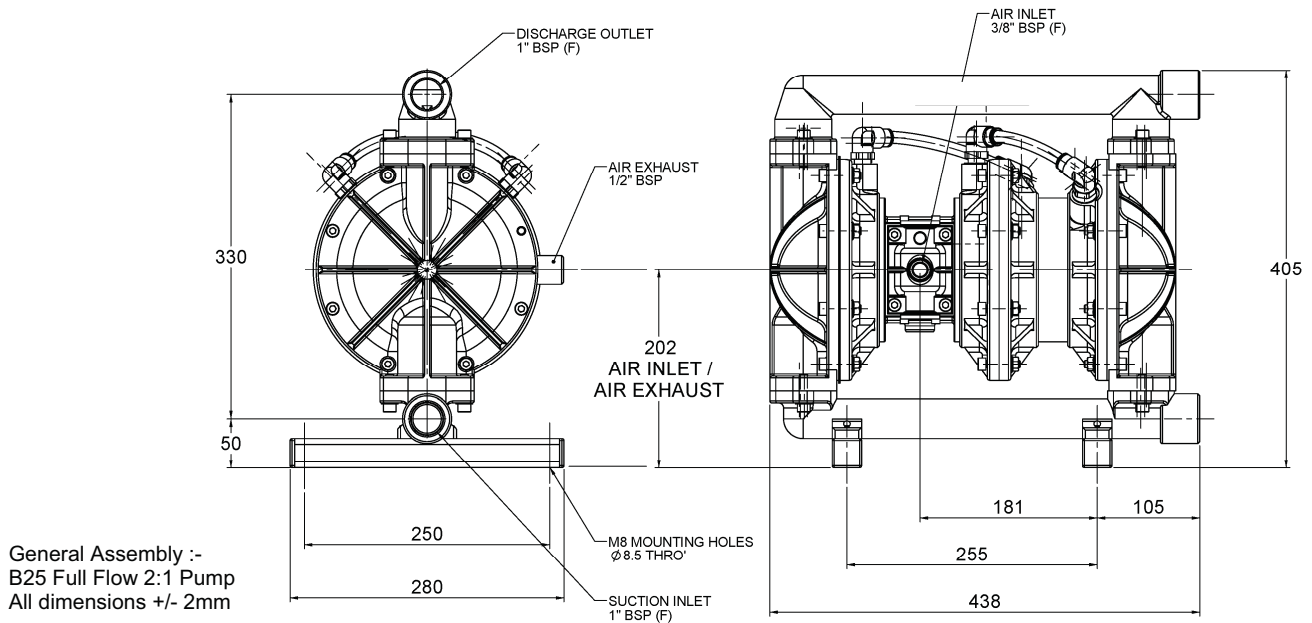
B25 & X25

AIR OPERATED DOUBLE DIAPHRAGM PUMP

1" Full Flow 2:1 Series

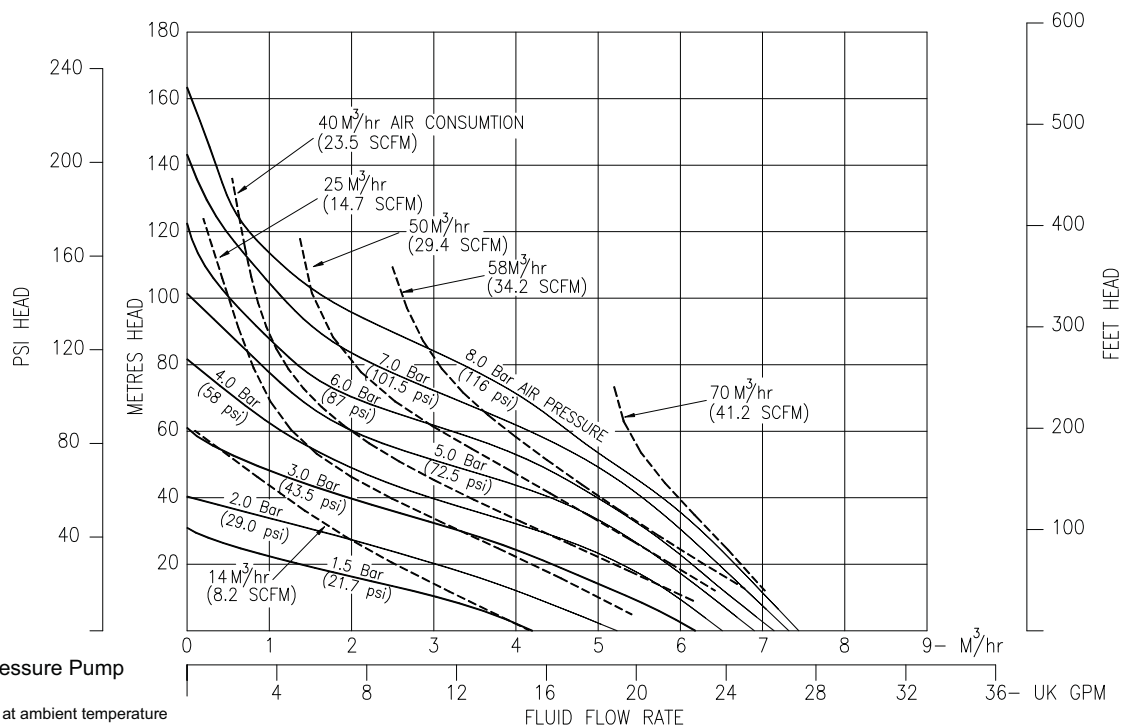
B25

DIMENSIONS



B25

PERFORMANCE





azcue
pumps

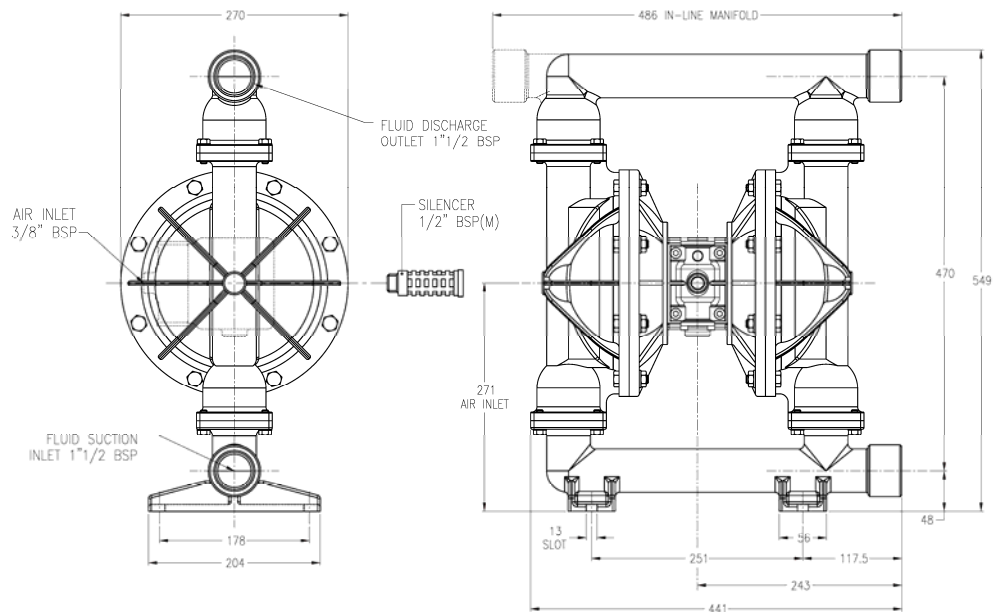
B40

AIR OPERATED DOUBLE DIAPHRAGM PUMP

Aluminium 05 Series

B40

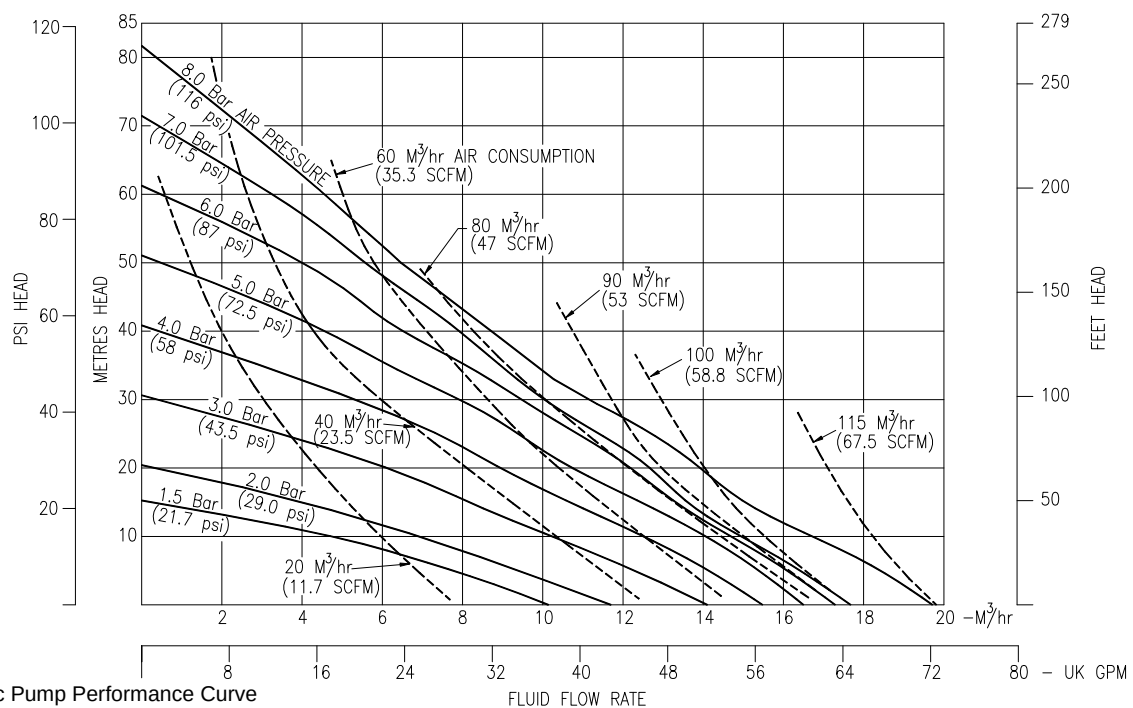
DIMENSIONS



General Assembly :-
B4005 Aluminium Pump
All dimensions +/- 3mm

B40

PERFORMANCE



B40 Metallic Pump Performance Curve
Performance based on water at ambient temperature


B40
SPECIFICATIONS

FLUID CONNECTIONS	CAPACITY	MAX SOLIDS	MAX DISCHARGE HEAD	DISPLACEMENT/STROKE
1 1/2 BSP(F)	0 - 320 Litres/Minute (0 - 70 Gallons/Minute)	6 MM (1/4")	88 Meters (289 ft)	1.2 Litres (0.3 UK Gallons)
MAX. WORKING PRESSURE	AIR INLET	TEMPERATURE LIMITS		PUMP WEIGHTS :-
8.6 Bar (125 psi)	3/8" BSP (F)	Determined by Elastomers		AA :- 23 Kg

ⓘ Caution - Operating temperature limitations are as follows:
Operating Temperatures
Materials
Maximum
Minimum
Optimum

Buna-n - General purpose, oil resistant. Shows good solvent, oil, water and hydraulic fluid resistance. Should not be used with highly polar solvents like acetone and MEK, ozone, chlorinated hydrocarbons and nitro hydrocarbons.

176°F
80°C

-18°F
-28°C

50° to 140°F
10° to 60°C

EPDM - Shows very good water and chemical resistance. Has poor resistance to oils and solvents, but is fair on ketones and alcohols.

212°F
100°C

-11°F
-24°C

50° to 212°F
10° to 100°C

Neoprene - All purpose. Resistant to vegetable oil. Generally not affected by moderate chemicals, fats greases and many oils and solvents. Generally attacked by strong oxidising acids, ketones, esters, nitro hydro carbons and chlorinated aromatic hydrocarbons.

212°F
100°C

-4°F
-20°C

50° to 130°F
10° to 54°C

Santoprene® - Injection moulded thermoplastic elastomer with no fabric layer. Long mechanical flex life. Excellent abrasion resistance.

212°F
100°C

-10°F
-23°C

50° to 212°F
10° to 100°C

PTFE - Chemically inert, virtually impervious. Very few chemicals are known to react chemically with PTFE : molten alkali metals, turbulent liquid or gaseous fluorine and a few fluoro-chemicals such as chlorine trifluoride or oxygen difluoride which readily liberate free fluorine at elevated temperatures.

356°F
180°C

32°F
0°C

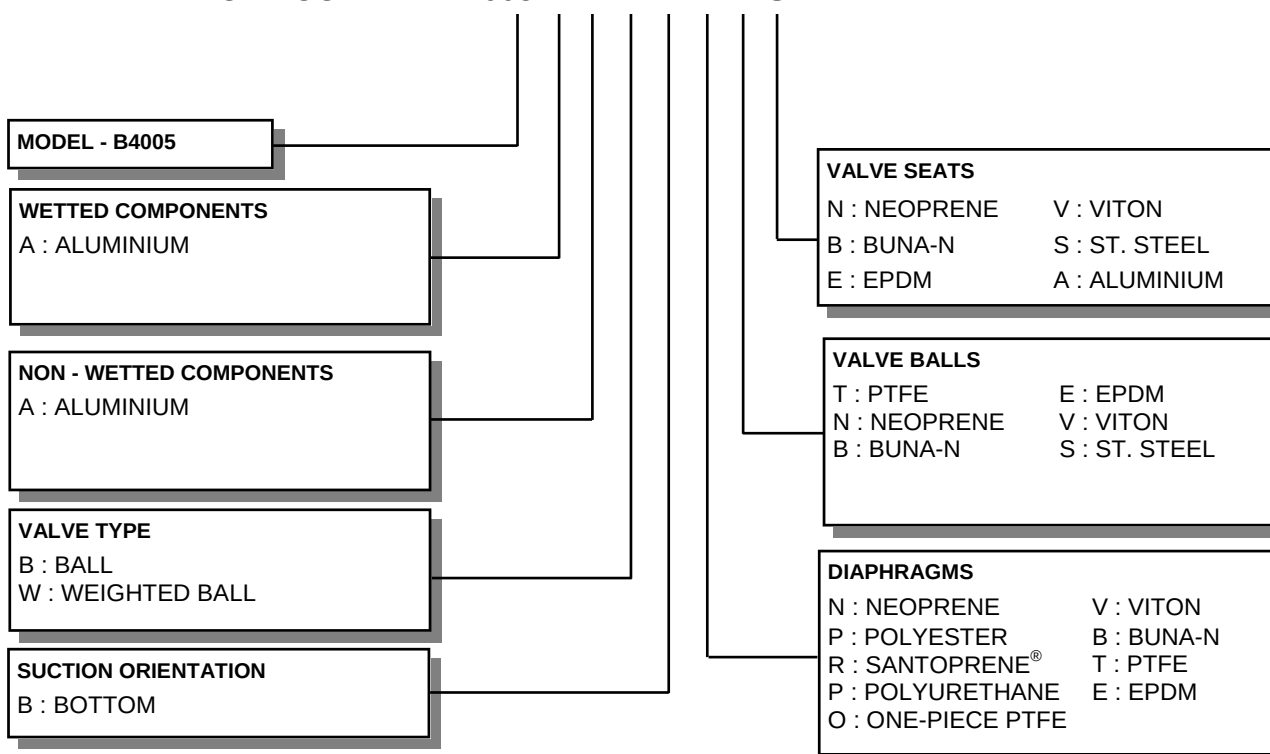
50° to 212°F
10° to 100°C

Viton® - Shows good resistance to a wide range of oils and solvents : especially all aliphatic, aromatic and halogenated hydrocarbons, acids, animal and vegetable oils.

356°F
180°C

0°F
-18°C

75° to 212°F
24° to 100°C

B40
PUMP CODE
TYPICAL CODE = B4005.A A. B B. N N S




B40

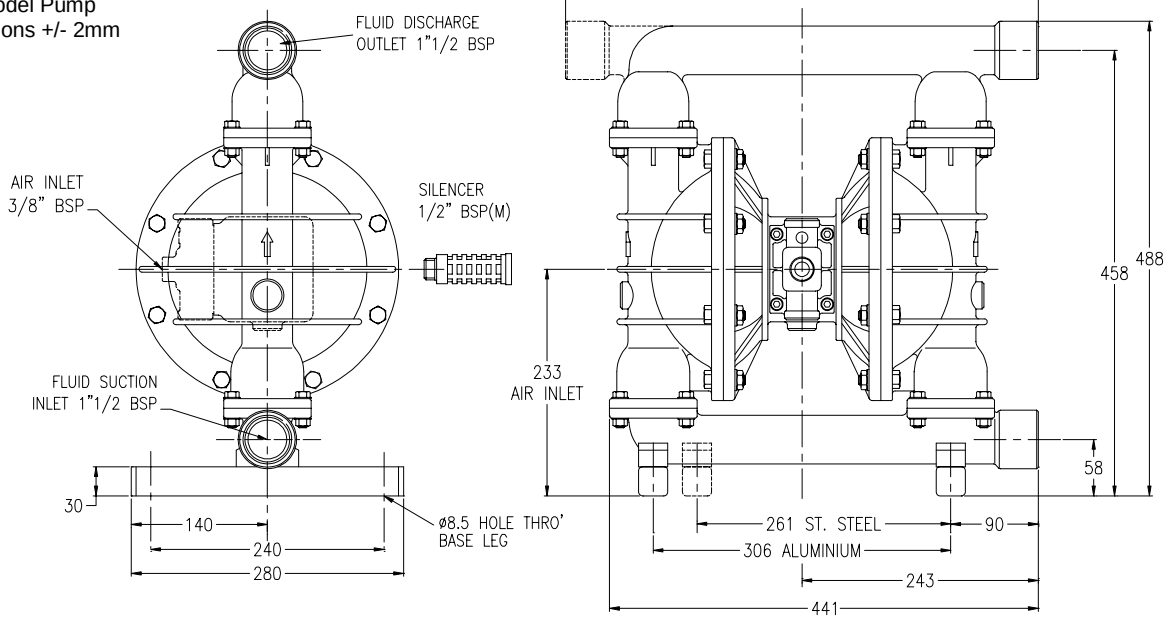
AIR OPERATED DOUBLE DIAPHRAGM PUMP

Stainless Steel Series

B40

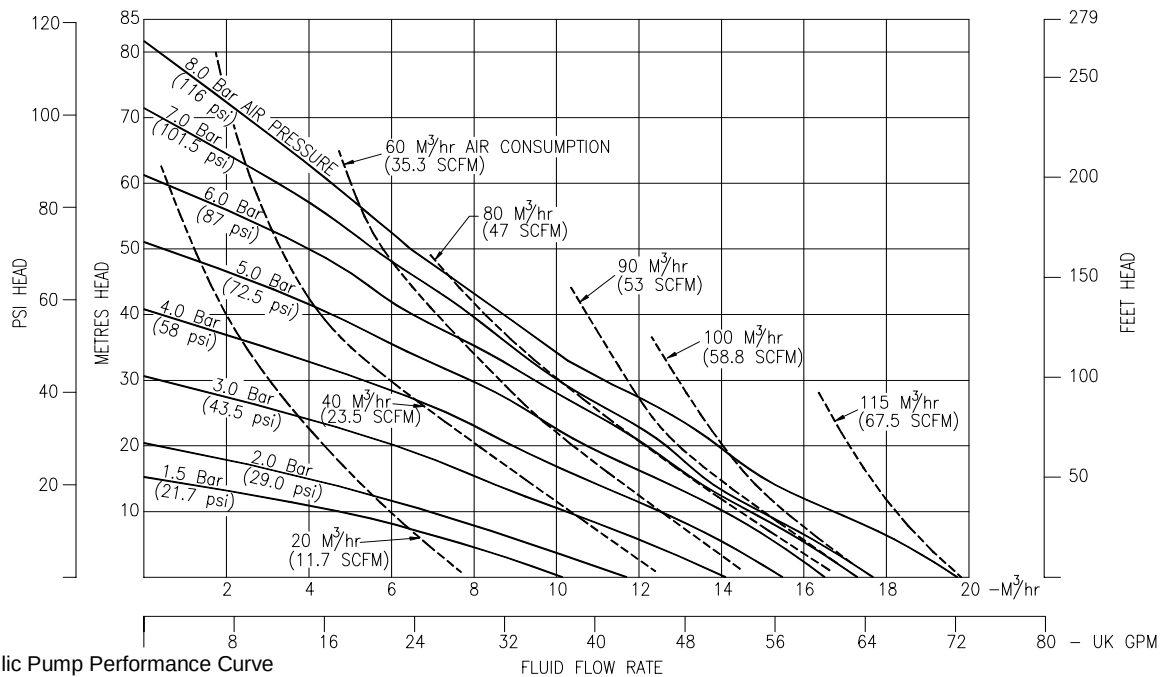
DIMENSIONS

General Assembly :-
B40 SA Model Pump
All dimensions +/- 2mm



B40

PERFORMANCE



B40 Metallic Pump Performance Curve
Performance based on water at ambient temperature


B40
SPECIFICATIONS

FLUID CONNECTIONS	CAPACITY	MAX SOLIDS	MAX DISCHARGE HEAD	DISPLACEMENT/STROKE
1"1/2 BSP(f)	0 - 320 Litres/Minute (0 - 70 Gallons/Minute)	6 MM (1/4")	88 Meters (289 ft)	1.2 Litres (0.3 UK Gallons)
MAX. WORKING PRESSURE	AIR INLET	TEMPERATURE LIMITS		PUMP WEIGHTS :-
8.6 Bar (125 psi)	3/8" BSP (F)	Determined by Elastomers		SA :- 42 Kg SS :- 49 Kg SC :- 49 Kg

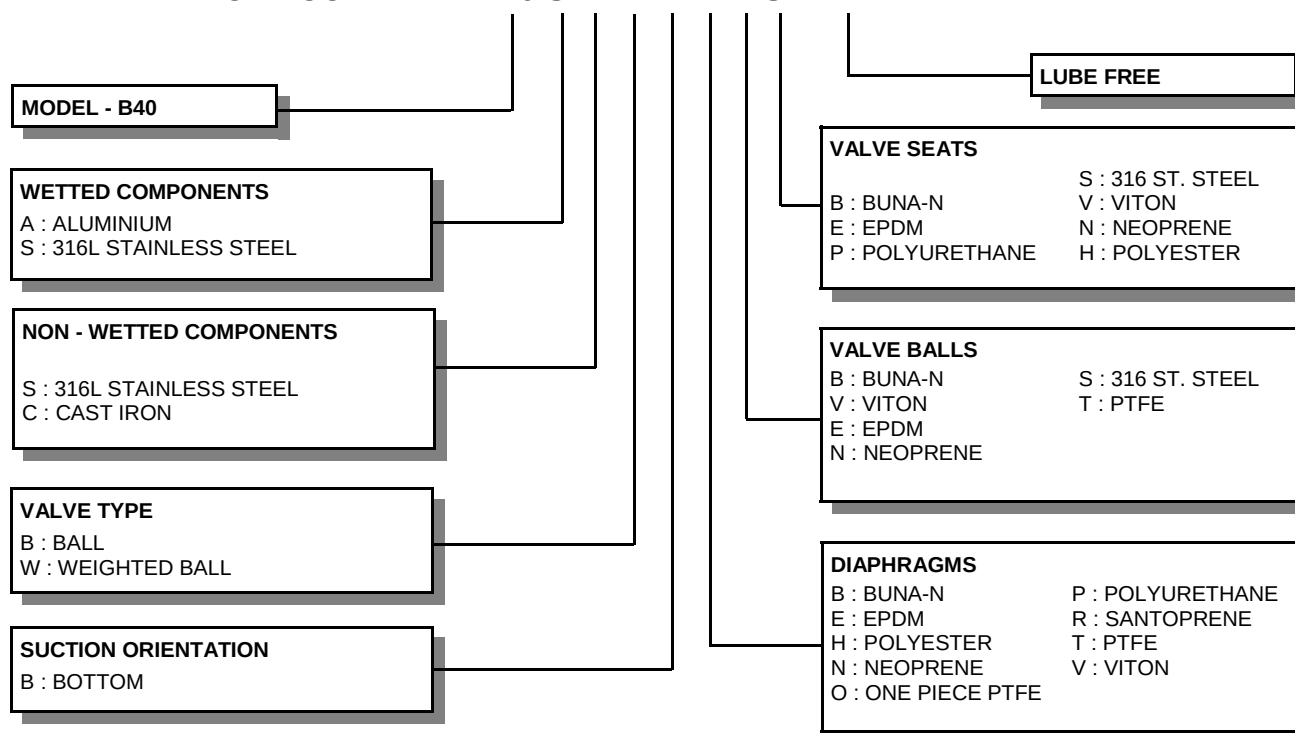
Caution - Operating temperature limitations are as follows:

Operating Temperatures

Materials	Maximum	Minimum	Optimum
Buna-n - General purpose, oil resistant. Shows good solvent, oil, water and hydraulic fluid resistance. Should not be used with highly polar solvents like acetone and MEK, ozone, chlorinated hydrocarbons and nitro hydrocarbons.	176°F 80°C	-18°F -28°C	50° to 140°F 10° to 60°C
EPDM - Shows very good water and chemical resistance. Has poor resistance to oils and solvents, but is fair on ketones and alcohols.	212°F 100°C	-11°F -24°C	50° to 212°F 10° to 100°C
Neoprene - All purpose. Resistant to vegetable oil. Generally not affected by moderate chemicals, fats greases and many oils and solvents. Generally attacked by strong oxidising acids, ketones, esters, nitro hydro carbons and chlorinated aromatic hydrocarbons.	212°F 100°C	-4°F -20°C	50° to 130°F 10° to 54°C
Santoprene® - Injection moulded thermoplastic elastomer with no fabric layer. Long mechanical flex life. Excellent abrasion resistance.	212°F 100°C	-10°F -23°C	50° to 212°F 10° to 100°C
PTFE - Chemically inert, virtually impervious. Very few chemicals are known to react chemically with PTFE : molten alkali metals, turbulent liquid or gaseous fluorine and a few fluoro-chemicals such as chlorine trifluoride or oxygen difluoride which readily liberate free fluorine at elevated temperatures.	356°F 180°C	32°F 0°C	50° to 212°F 10° to 100°C
Viton® - Shows good resistance to a wide range of oils and solvents : especially all aliphatic, aromatic and halogenated hydrocarbons, acids, animal and vegetable oils.	356°F 180°C	0°F -18°C	75° to 212°F 24° to 100°C

B40
PUMP CODE

TYPICAL CODE = B40.S A. B B. E T S - L F





azcue
pumps

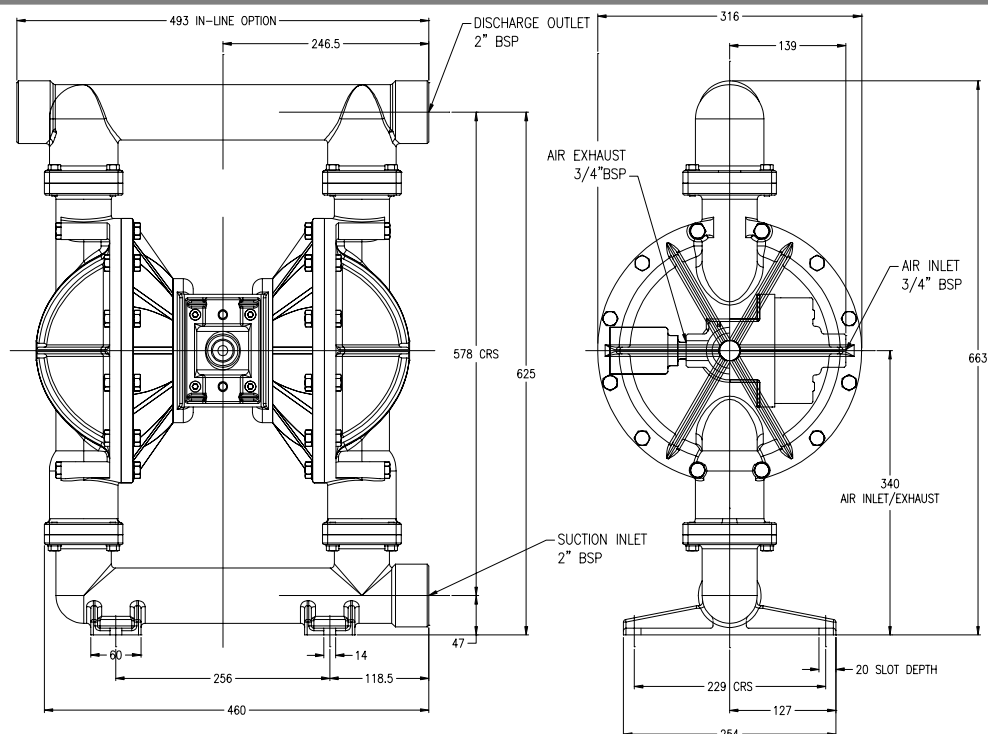
B50

AIR OPERATED DOUBLE DIAPHRAGM PUMP

Aluminium & Cast Iron Series

B50

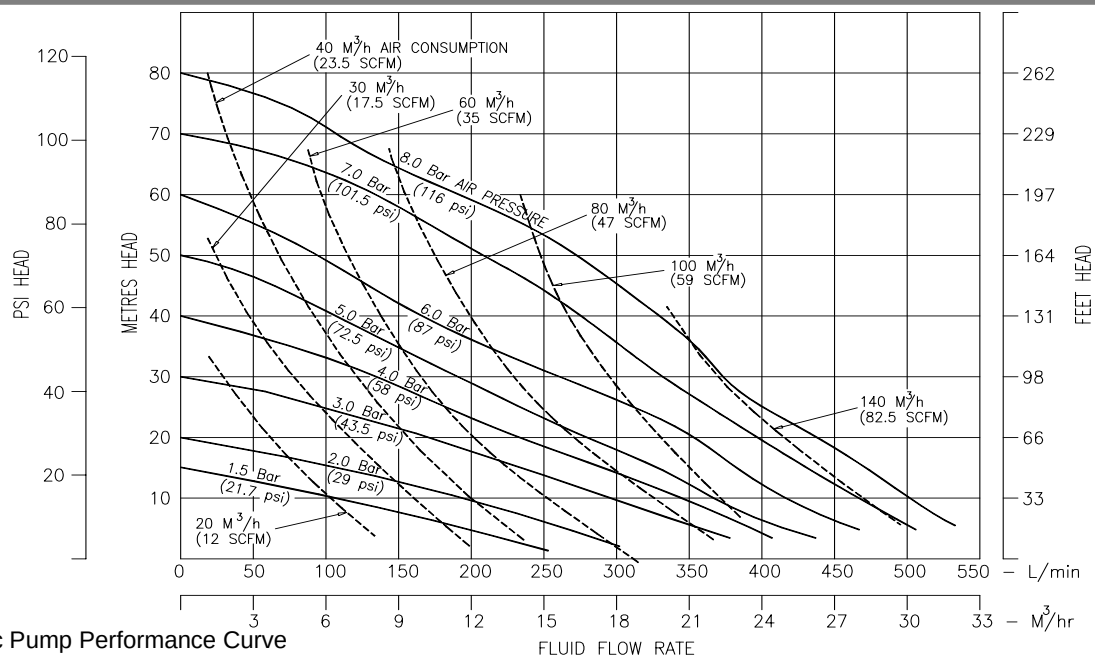
DIMENSIONS



General Assembly :-
B50 Metallic Pump
All dimensions +/- 3mm

B50

PERFORMANCE



B50 Metallic Pump Performance Curve
Performance based on water at ambient temperature


B50
SPECIFICATIONS

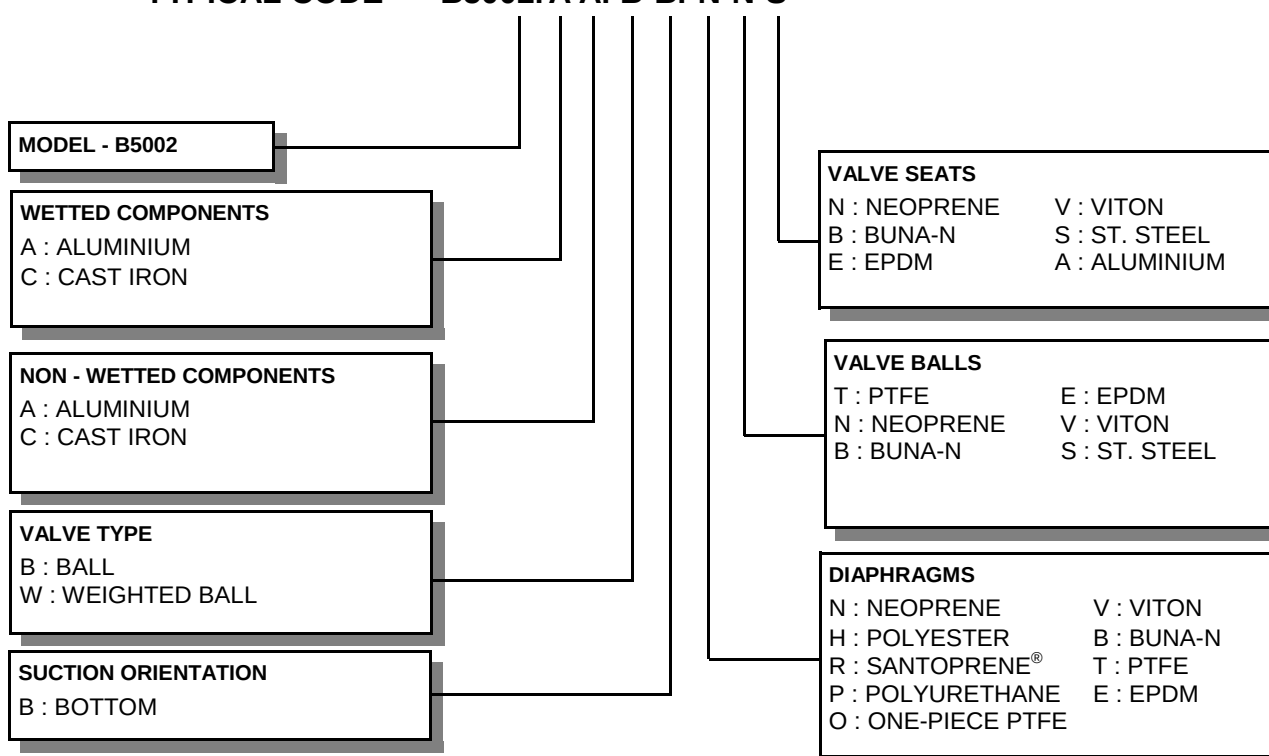
FLUID CONNECTIONS	CAPACITY	MAX SOLIDS	MAX DISCHARGE HEAD	DISPLACEMENT/STROKE
2" BSP(F)	0 - 500 Litres/Minute (0 - 110 Gallons/Minute)	6 MM (1/4")	88 Meters (289 ft)	1.9 Litres (0.42 UK Gallons)
MAX. WORKING PRESSURE	AIR INLET	TEMPERATURE LIMITS		PUMP WEIGHTS :-
8.6 Bar (125 psi)	3/4" BSP (F)	Determined by Elastomers		AA :- 41 Kg

ⓘ **Caution - Operating temperature limitations are as follows:**

Materials	Operating Temperatures		
	Maximum	Minimum	Optimum
Buna-n - General purpose, oil resistant. Shows good solvent, oil, water and hydraulic fluid resistance. Should not be used with highly polar solvents like acetone and MEK, ozone, chlorinated hydrocarbons and nitro hydrocarbons.	176°F 80°C	-18°F -28°C	50° to 140°F 10° to 60°C
EPDM - Shows very good water and chemical resistance. Has poor resistance to oils and solvents, but is fair on ketones and alcohols.	212°F 100°C	-11°F -24°C	50° to 212°F 10° to 100°C
Neoprene - All purpose. Resistant to vegetable oil. Generally not affected by moderate chemicals, fats greases and many oils and solvents. Generally attacked by strong oxidising acids, ketones, esters, nitro hydro carbons and chlorinated aromatic hydrocarbons.	212°F 100°C	-4°F -20°C	50° to 130°F 10° to 54°C
Santoprene® - Injection moulded thermoplastic elastomer with no fabric layer. Long mechanical flex life. Excellent abrasion resistance.	212°F 100°C	-10°F -23°C	50° to 212°F 10° to 100°C
PTFE - Chemically inert, virtually impervious. Very few chemicals are known to react chemically with PTFE : molten alkali metals, turbulent liquid or gaseous fluorine and a few fluoro-chemicals such as chlorine trifluoride or oxygen difluoride which readily liberate free fluorine at elevated temperatures.	356°F 180°C	32°F 0°C	50° to 212°F 10° to 100°C
Viton® - Shows good resistance to a wide range of oils and solvents : especially all aliphatic, aromatic and halogenated hydrocarbons, acids, animal and vegetable oils.	356°F 180°C	0°F -18°C	75° to 212°F 24° to 100°C

B50
PUMP CODE

TYPICAL CODE = B5002.A A. B B. N N S





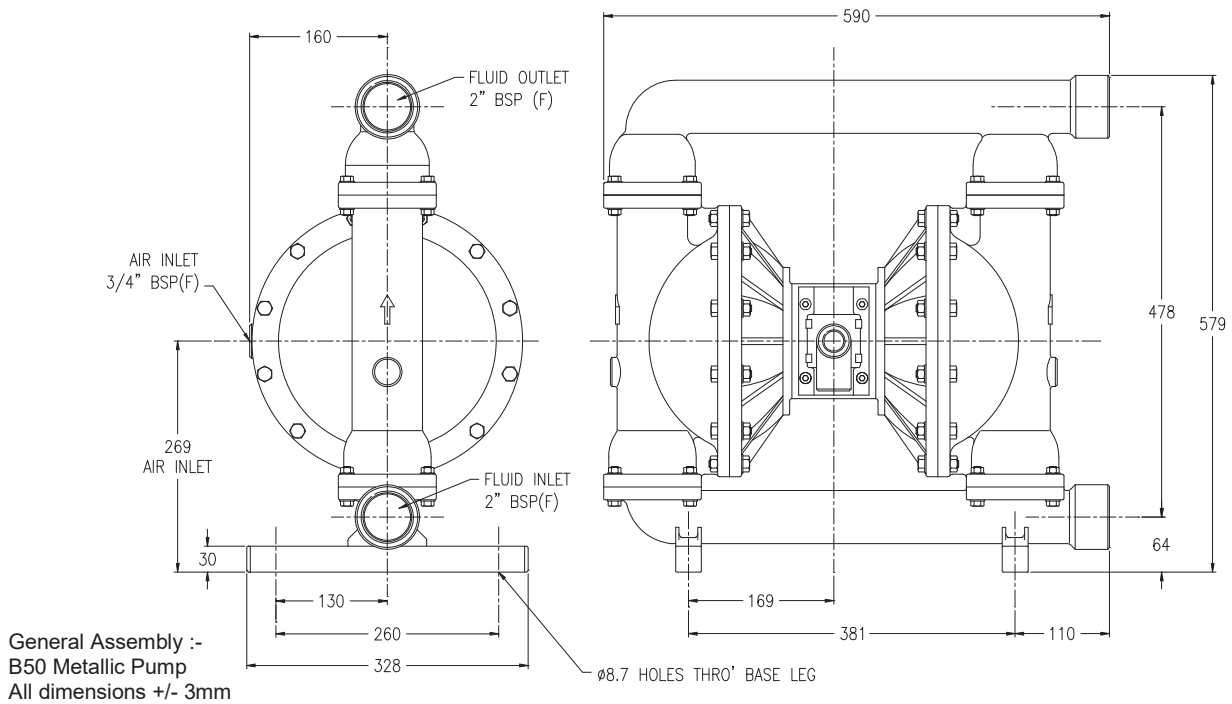
B50

AIR OPERATED DOUBLE DIAPHRAGM PUMP

Stainless Steel Series

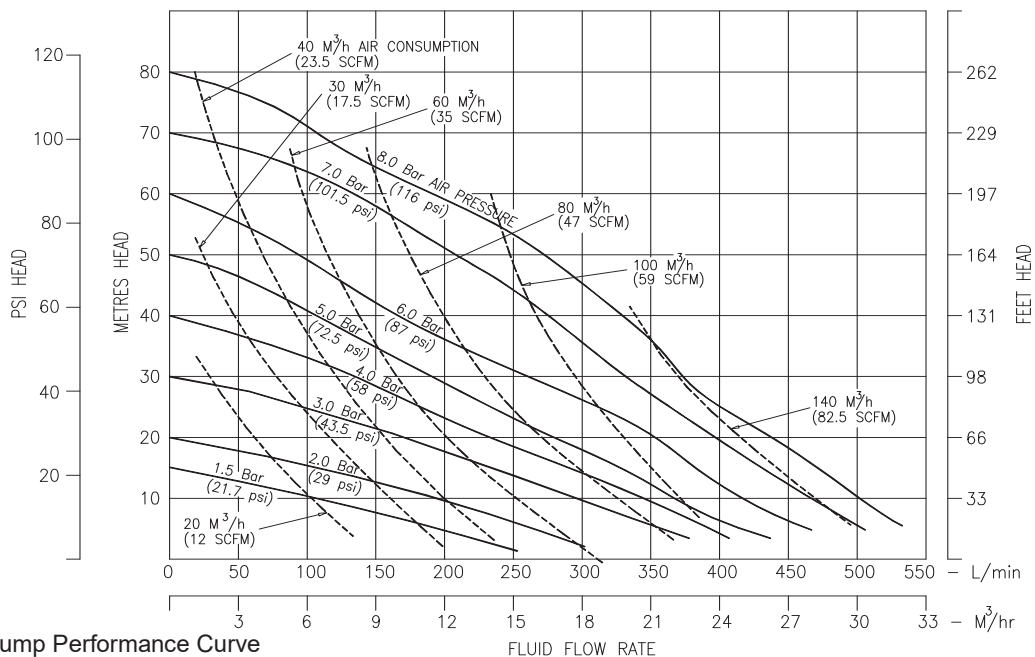
B50

DIMENSIONS



B50

PERFORMANCE



B50 Metallic Pump Performance Curve
Performance based on water at ambient temperature

HG-CF-1067 Rev. 0 - 12.05.03


B50
SPECIFICATIONS

FLUID CONNECTIONS	CAPACITY	MAX SOLIDS	MAX DISCHARGE HEAD	DISPLACEMENT/STROKE
2" BSP (F)	0 - 500 Litres/Minute (0 - 110 Gallons/Minute)	6 MM (1/4")	88 Meters (289 ft)	1.9 Litres (0.42 UK Gallons)
MAX. WORKING PRESSURE	AIR INLET	TEMPERATURE LIMITS		PUMP WEIGHTS :-
8.6 Bar (125 psi)	3/4" BSP (F)	Determined by Elastomers		SA :- 60 Kg SS :- 92Kg

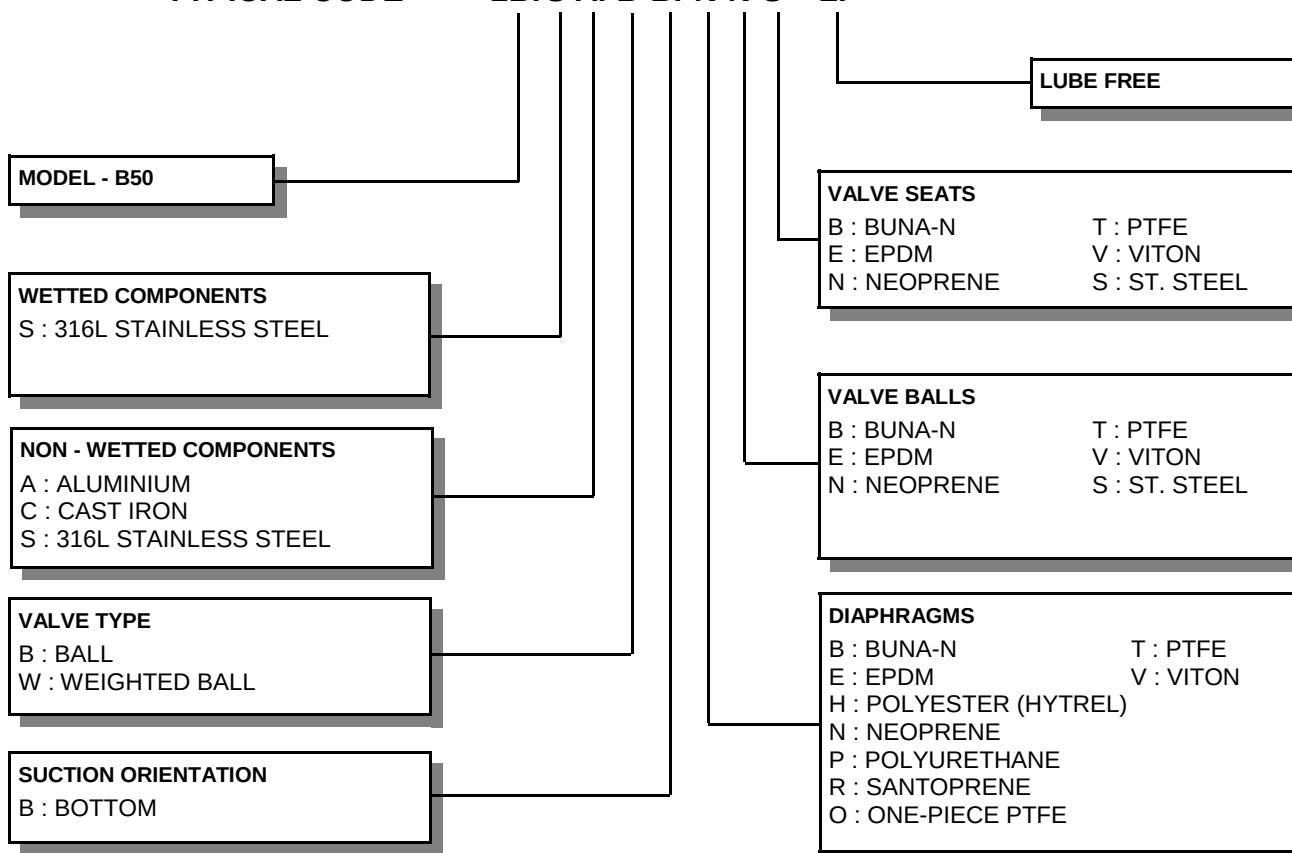
ⓘ **Caution** - Operating temperature limitations are as follows:

Operating Temperatures

Materials	Maximum	Minimum	Optimum
Buna-n - General purpose, oil resistant. Shows good solvent, oil, water and hydraulic fluid resistance. Should not be used with highly polar solvents like acetone and MEK, ozone, chlorinated hydrocarbons and nitro hydrocarbons.	176°F 80°C	-18°F -28°C	50° to 140°F 10° to 60°C
EPDM - Shows very good water and chemical resistance. Has poor resistance to oils and solvents, but is fair on ketones and alcohols.	212°F 100°C	-11°F -24°C	50° to 212°F 10° to 100°C
Neoprene - All purpose. Resistant to vegetable oil. Generally not affected by moderate chemicals, fats greases and many oils and solvents. Generally attacked by strong oxidising acids, ketones, esters, nitro hydro carbons and chlorinated aromatic hydrocarbons.	212°F 100°C	-4°F -20°C	50° to 130°F 10° to 54°C
Santoprene® - Injection moulded thermoplastic elastomer with no fabric layer. Long mechanical flex life. Excellent abrasion resistance.	212°F 100°C	-10°F -23°C	50° to 212°F 10° to 100°C
PTFE - Chemically inert, virtually impervious. Very few chemicals are known to react chemically with PTFE : molten alkali metals, turbulent liquid or gaseous fluorine and a few fluoro-chemicals such as chlorine trifluoride or oxygen difluoride which readily liberate free fluorine at elevated temperatures.	356°F 180°C	32°F 0°C	50° to 212°F 10° to 100°C
Viton® - Shows good resistance to a wide range of oils and solvents : especially all aliphatic, aromatic and halogenated hydrocarbons, acids, animal and vegetable oils. Hot water or aqueous solutions(over 70°F) will attack Viton®.	356°F 180°C	0°F -18°C	75° to 212°F 24° to 100°C

B50
PUMP CODE

TYPICAL CODE = 2B.S A. B B. N N S - LF





azcue
pumps

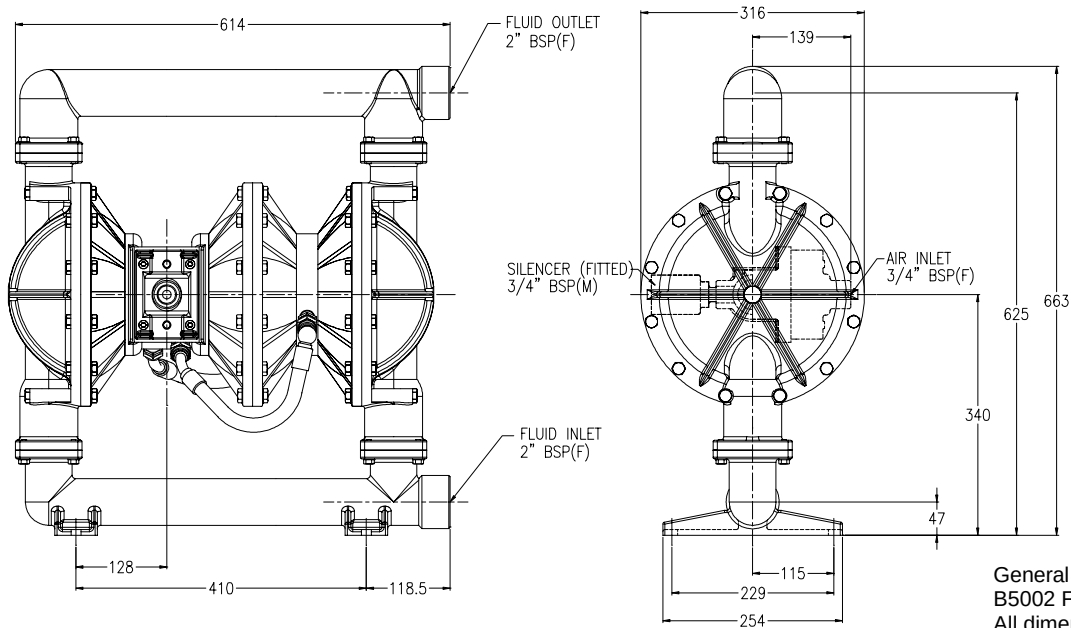
B50 & X50

AIR OPERATED DOUBLE DIAPHRAGM PUMP

Full Flow 2:1 Aluminium Series

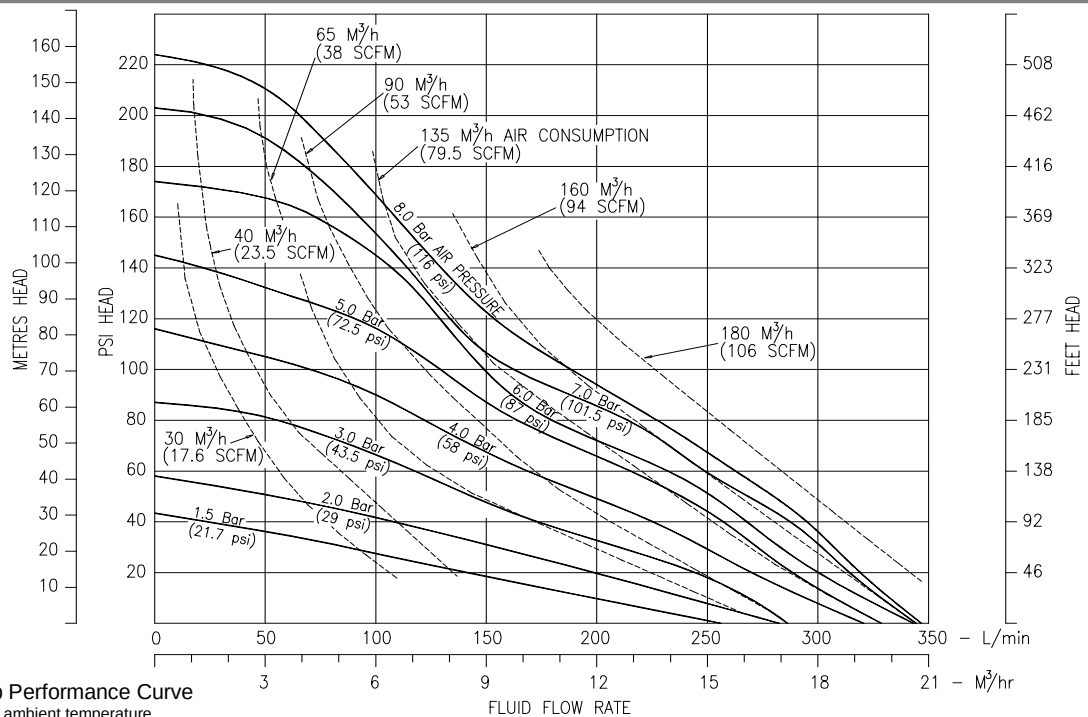
B50

DIMENSIONS



B50

PERFORMANCE



B50 Full Flow 2:1 Pump Performance Curve
Performance based on water at ambient temperature

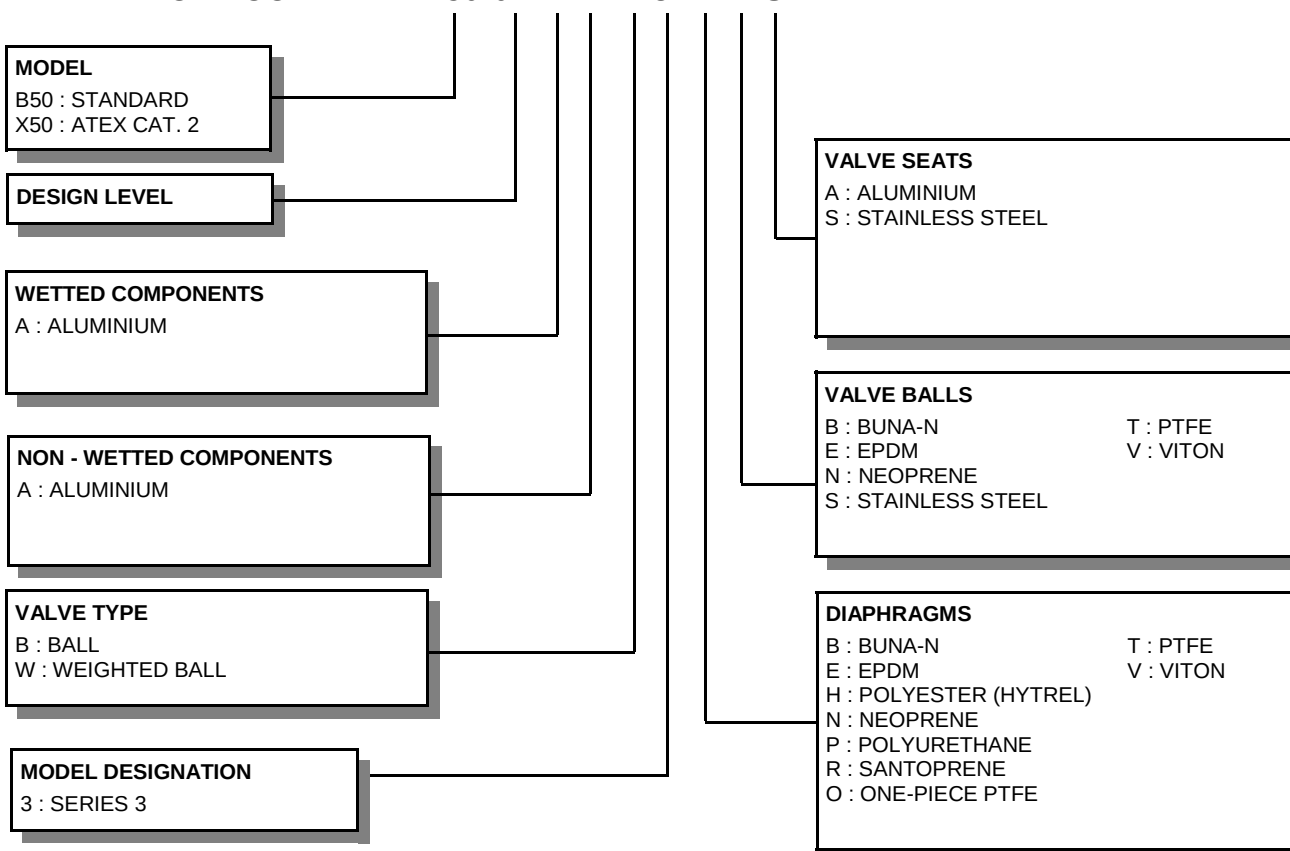
**B50****SPECIFICATIONS**

FLUID CONNECTIONS	CAPACITY	MAX SOLIDS	MAX DISCHARGE HEAD	DISPLACEMENT/STROKE
2" BSP (F)	0 - 341 Liters/Minute (0 - 75 Gallons/Minute)	6 MM (1/4")	163 Meters (536 ft)	1.9 Litres (0.42 UK Gallons)
MAX. WORKING PRESSURE	AIR INLET	TEMPERATURE LIMITS		PUMP WEIGHTS :-
16 Bar (232 psi)	3/4" BSP (F)	Determined by Elastomers		AA :- 51.5 Kg

ⓘ Caution - Operating temperature limitations are as follows:

Operating Temperatures

Materials	Maximum	Minimum	Optimum
Buna-n - General purpose, oil resistant. Shows good solvent, oil, water and hydraulic fluid resistance. Should not be used with highly polar solvents like acetone and MEK, ozone, chlorinated hydrocarbons and nitro hydrocarbons.	176°F 80°C	-18°F -28°C	50° to 140°F 10° to 60°C
EPDM - Shows very good water and chemical resistance. Has poor resistance to oils and solvents, but is fair on ketones and alcohols.	212°F 100°C	-11°F -24°C	50° to 212°F 10° to 100°C
Neoprene - All purpose. Resistant to vegetable oil. Generally not affected by moderate chemicals, fats greases and many oils and solvents. Generally attacked by strong oxidising acids, ketones, esters, nitro hydro carbons and chlorinated aromatic hydrocarbons.	212°F 100°C	-4°F -20°C	50° to 130°F 10° to 54°C
Santoprene® - Injection moulded thermoplastic elastomer with no fabric layer. Long mechanical flex life. Excellent abrasion resistance.	212°F 100°C	-10°F -23°C	50° to 212°F 10° to 100°C
PTFE - Chemically inert, virtually impervious. Very few chemicals are known to react chemically with PTFE : molten alkali metals, turbulent liquid or gaseous fluorine and a few fluoro-chemicals such as chlorine trifluoride or oxygen difluoride which readily liberate free fluorine at elevated temperatures.	356°F 180°C	32°F 0°C	50° to 212°F 10° to 100°C
Viton® - Shows good resistance to a wide range of oils and solvents : especially all aliphatic, aromatic and halogenated hydrocarbons, acids, animal and vegetable oils. Hot water or aqueous solutions(over 70°F) will attack Viton®.	356°F 180°C	0°F -18°C	75° to 212°F 24° to 100°C

B50**PUMP CODE****TYPICAL CODE = B50.02. A A. W3. N N S**



azcue
pumps



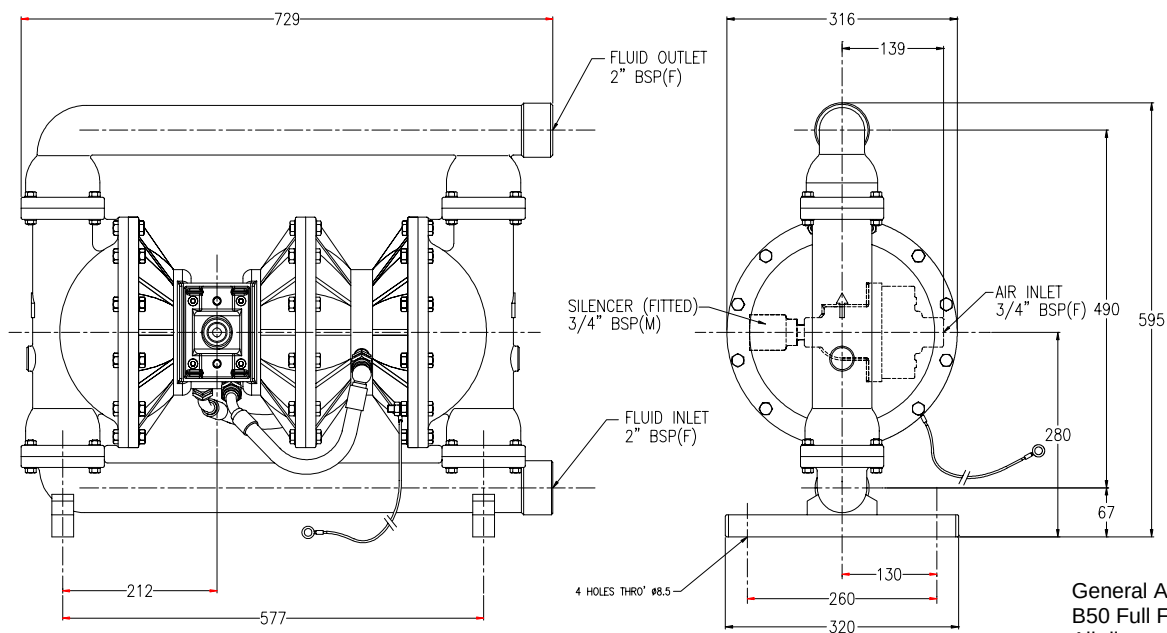
B50 & X50

AIR OPERATED DOUBLE DIAPHRAGM PUMP

Full Flow 2:1 Stainless Steel Series

B50

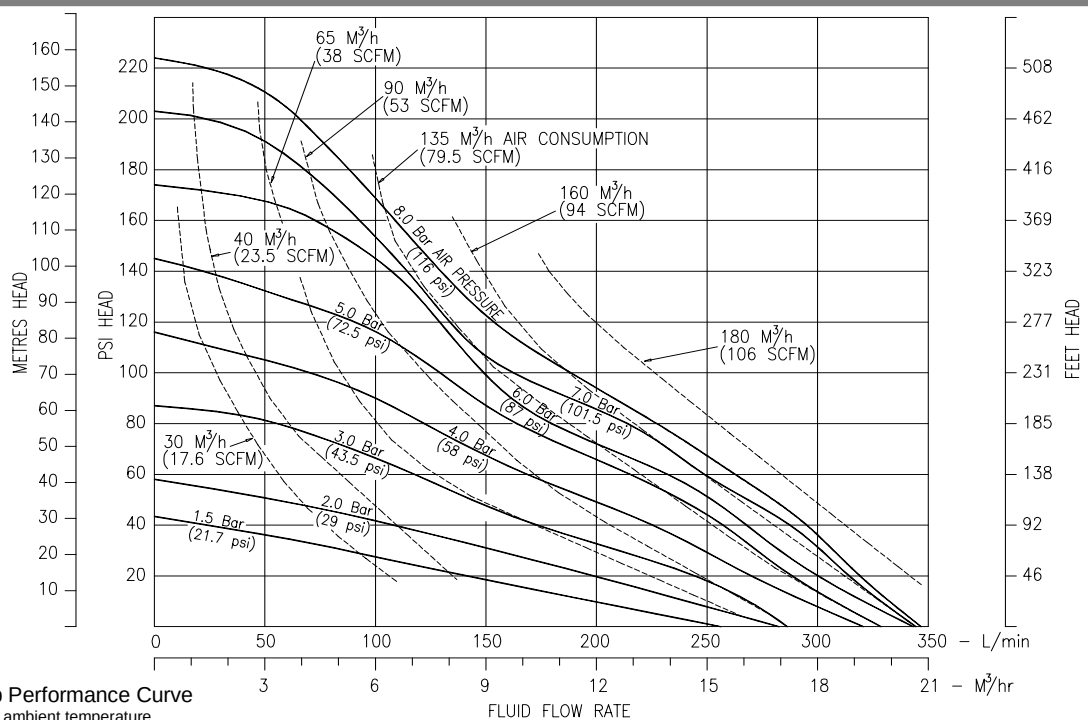
DIMENSIONS



General Assembly :-
B50 Full Flow 2:1 Pump
All dimensions +/- 3mm

B50

PERFORMANCE



B50 Full Flow 2:1 Pump Performance Curve
Performance based on water at ambient temperature


B50
SPECIFICATIONS

FLUID CONNECTIONS	CAPACITY	MAX SOLIDS	MAX DISCHARGE HEAD	DISPLACEMENT/STROKE
2" BSP (F)	0 - 341 Liters/Minute (0 - 75 Gallons/Minute)	6 MM (1/4")	163 Meters (536 ft)	1.9 Litres (0.42 UK Gallons)
MAX. WORKING PRESSURE	AIR INLET	TEMPERATURE LIMITS		PUMP WEIGHTS :-
16 Bar (232 psi)	3/4" BSP (F)	Determined by Elastomers		AA :- 65.5 Kg SA :- 75 Kg SS :- 86 Kg

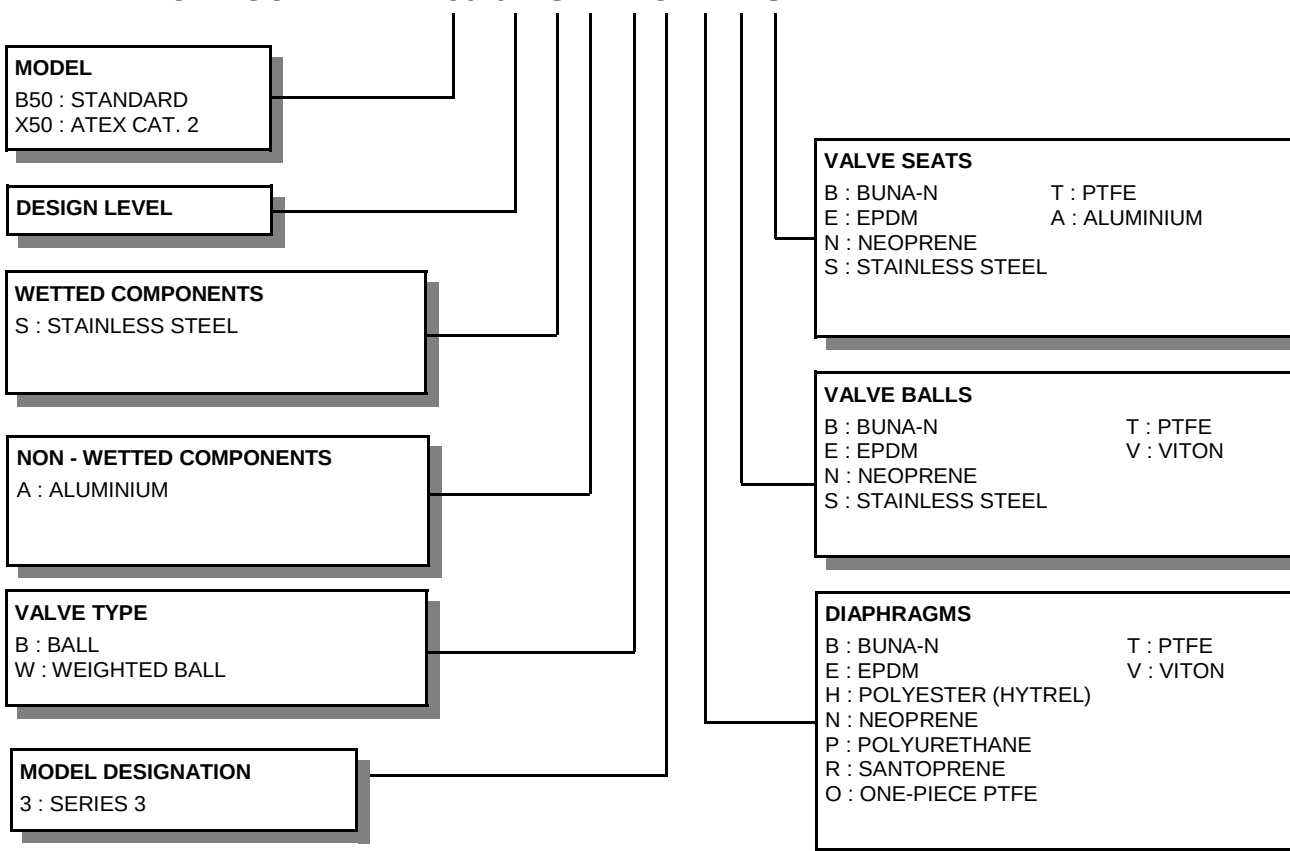
ⓘ Caution - Operating temperature limitations are as follows:

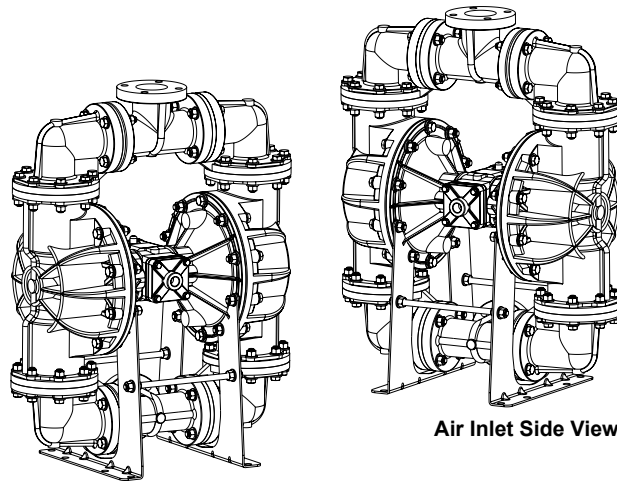
Operating Temperatures

Materials	Maximum	Minimum	Optimum
Buna-n - General purpose, oil resistant. Shows good solvent, oil, water and hydraulic fluid resistance. Should not be used with highly polar solvents like acetone and MEK, ozone, chlorinated hydrocarbons and nitro hydrocarbons.	176°F 80°C	-18°F -28°C	50° to 140°F 10° to 60°C
EPDM - Shows very good water and chemical resistance. Has poor resistance to oils and solvents, but is fair on ketones and alcohols.	212°F 100°C	-11°F -24°C	50° to 212°F 10° to 100°C
Neoprene - All purpose. Resistant to vegetable oil. Generally not affected by moderate chemicals, fats greases and many oils and solvents. Generally attacked by strong oxidising acids, ketones, esters, nitro hydro carbons and chlorinated aromatic hydrocarbons.	212°F 100°C	-4°F -20°C	50° to 130°F 10° to 54°C
Santoprene® - Injection moulded thermoplastic elastomer with no fabric layer. Long mechanical flex life. Excellent abrasion resistance.	212°F 100°C	-10°F -23°C	50° to 212°F 10° to 100°C
PTFE - Chemically inert, virtually impervious. Very few chemicals are known to react chemically with PTFE : molten alkali metals, turbulent liquid or gaseous fluorine and a few fluoro-chemicals such as chlorine trifluoride or oxygen difluoride which readily liberate free fluorine at elevated temperatures.	356°F 180°C	32°F 0°C	50° to 212°F 10° to 100°C
Viton® - Shows good resistance to a wide range of oils and solvents : especially all aliphatic, aromatic and halogenated hydrocarbons, acids, animal and vegetable oils. Hot water or aqueous solutions (over 70°F) will attack Viton®.	356°F 180°C	0°F -18°C	75° to 212°F 24° to 100°C

B50
PUMP CODE

TYPICAL CODE = B50.02. S A. W3. N N S





CE

B75 Non-Metallic Design Level 2 Ball Valve Air-Powered Double-Diaphragm Pump

ENGINEERING, PERFORMANCE
& CONSTRUCTION DATA

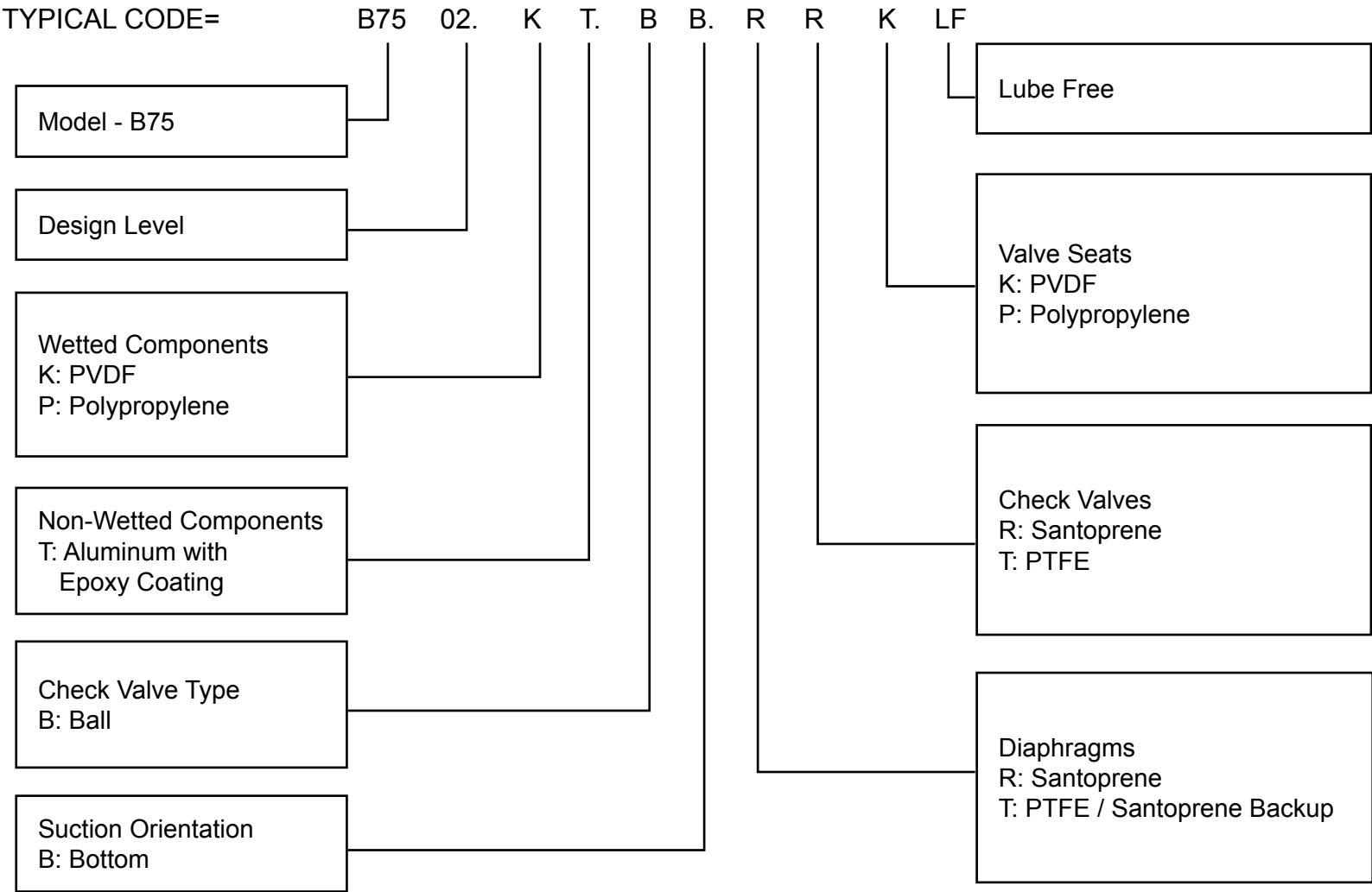
INTAKE/DISCHARGE PIPE SIZE 3" ANSI Flange or 80mm DIN Flange	CAPACITY 0 to 238 US gallons per minute (0 to 901 liters per minute)	AIR VALVE No-lube, no-stall design	SOLIDS-HANDLING Up to .71 in. (18mm)	HEADS UP TO 100 psi or 231 ft. of water (7 bar or 70 meters)	DISPLACEMENT/STROKE .9 US gallon / 3.41 liter
⚠ CAUTION! Operating temperature limitations are as follows:					
Materials				Operating Temperatures	
				Maximum	Minimum
Santoprene® Injection molded thermoplastic elastomer with no fabric layer. Long mechanical flex life. Excellent abrasion resistance.				212°F 100°C	-10°F -23°C
Virgin PTFE Chemically inert, virtually impervious. Very few chemicals are known to react chemically with PTFE: molten alkali metals, turbulent liquid or gaseous fluorine and a few fluoro-chemicals such as chlorine trifluoride or oxygen difluoride which readily liberate free fluorine at elevated temperatures.				212°F 100°C	-35°F -37°C
Polypropylene				180°F 82°C	32°F 0°C
PVDF				200°F 93°C	10°F -13°C
<i>Maximum and Minimum Temperatures are the limits for which these materials can be operated. Temperatures coupled with pressure affect the longevity of diaphragm pump components. Maximum life should not be expected at the extreme limits of the temperature ranges.</i>					

CAUTION: Nonmetallic pumps and plastic components are not UV stabilized. Ultraviolet radiation can damage these parts and negatively affect material properties. Do not expose to UV light for extended periods of time.

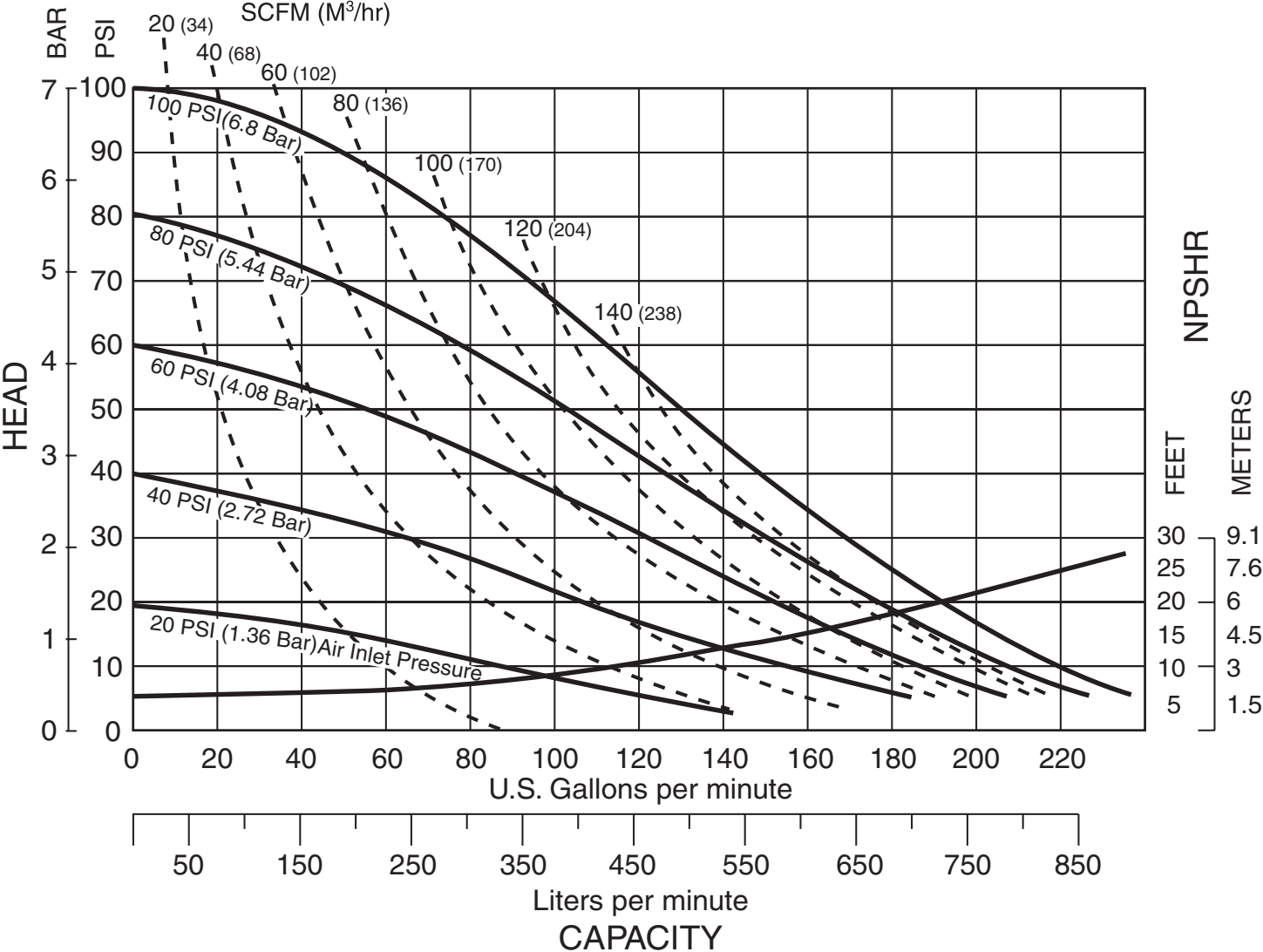
For specific applications, always consult "Chemical Resistance Chart" Technical Bulletin

The pumps are designed to be powered only by compressed air.

Explanation of Pump Nomenclature



Performance Curve, Model B75 Non-Metallic Design Level 2

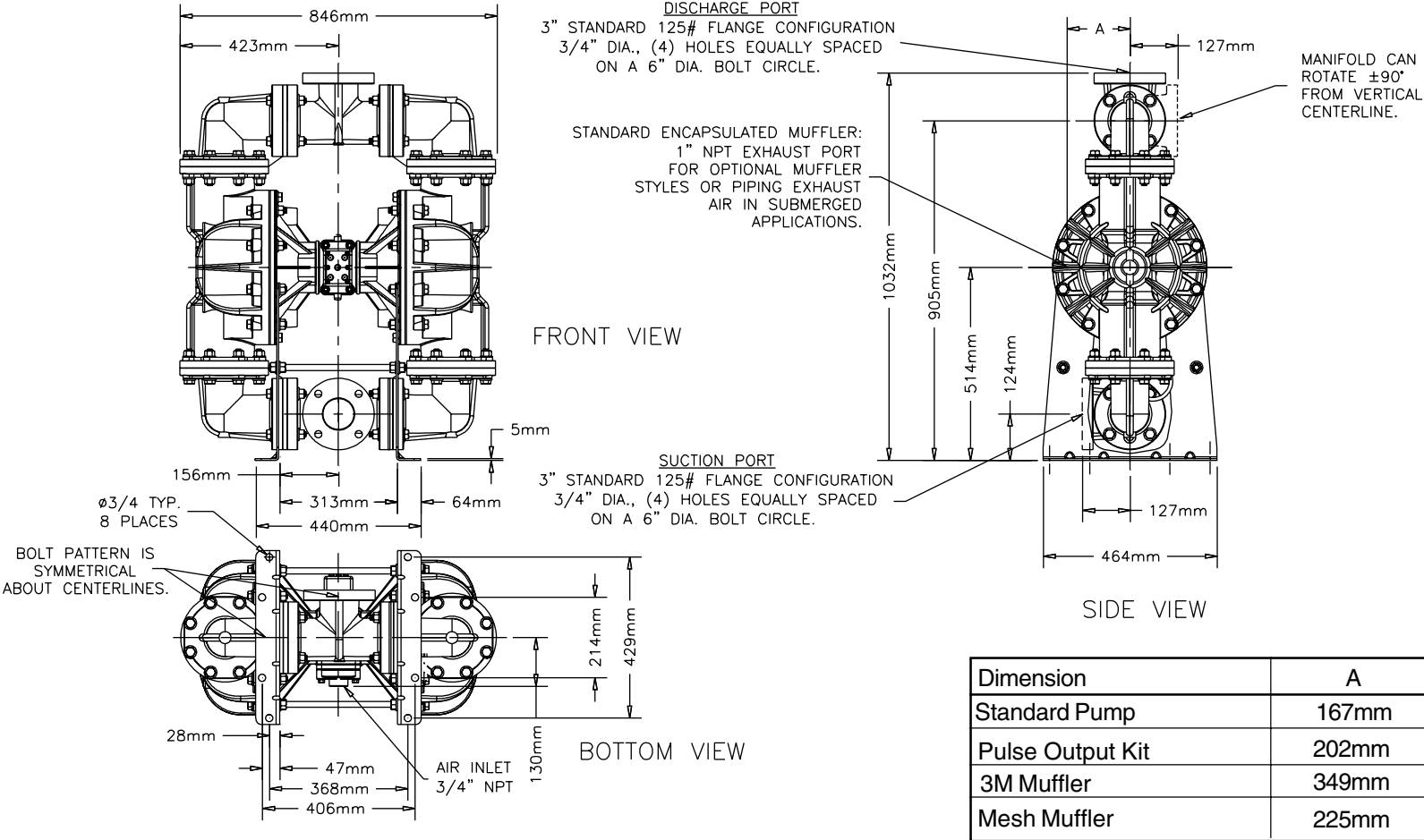


Metric Dimensions: B75 Non-Metallic



Dimensions in Millimeters
Dimensional tolerance: $\pm 3\text{mm}$

Note: Dimensions "A" is from the vertical centerline to the end of the muffler.



Note: Porting Flanges are also available with PN10 80mm DIN bolting configuration.