

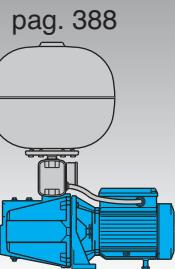
Pressure Boosting Sets

Fixed speed pump units

Variable speed pump units with frequency converter



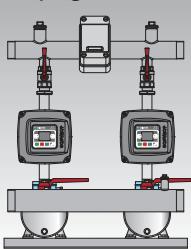
 calpeda®



pag. 388

MINIMAT, TURBOMAT CENTRIMAT, GETTOMAT

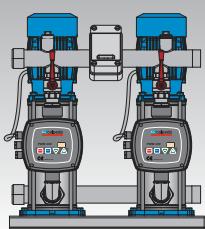
Small automatic water systems
with 1 pump series
MXH, MXP, NM, NG, NGL, NGX



pag. 396

EASYMAT

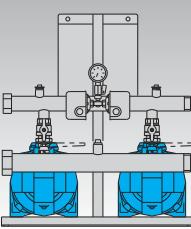
Constant pressure boosting sets
with Easymat frequency converter
with 1 or 2
MGP, MXP, MXH, MXSU, MXVB



pag. 408

VARIOMAT

Constant pressure boosting sets
with Variomat frequency converter
with 1 or 2 **MXH, MXSU, MXVB**



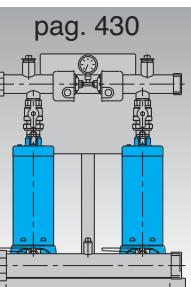
pag. 417

BS2F

Fixed speed pump pressure boosting
sets for domestic use
with 2 **MXH, MXP, NM, NG, NGL, NGX**

BS1V1F, BS2V

Variable speed pump pressure boosting
sets for domestic use
with 2 **MXH, MXP, NM**



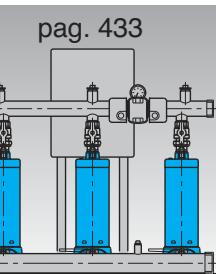
pag. 430

BS2F

Fixed speed pump Pressure boosting
sets for domestic use
with 2 **MXSU**

BS1V1F, BS2V

Variable speed pump pressure boosting
sets for domestic use
with 2 **MXSU**



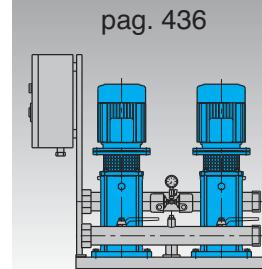
pag. 433

BS3F

Fixed speed pump Pressure boosting
sets for domestic use
with 3 **MXSU**

BS1V2F, BS3V

Variable speed pump pressure boosting
sets for domestic use
with 3 **MXSU**



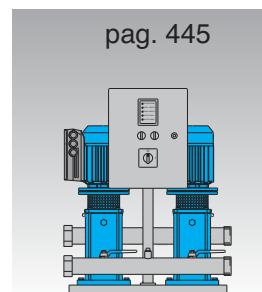
pag. 436

BS2F

Fixed speed pump pressure boosting
sets for civil use
with 2 **MXVB, MXV**

BS1V1F, BS2V

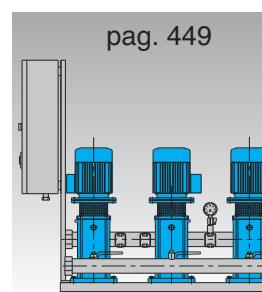
Variable speed pump pressure boosting
sets for civil use
with 2 **MXVB, MXV**



pag. 445

BS1V1F, BS2V

Variable speed pump (on-board
frequency converter) pressure boosting
sets for civil use
with 2 **MXVE**



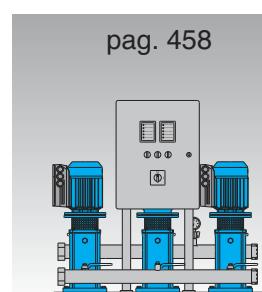
pag. 449

BS3F

Fixed speed pump pressure boosting
sets for civil use
with 3 **MXVB, MXV**

BS1V2F, BS3V

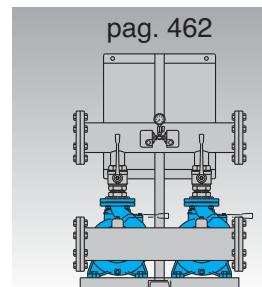
Variable speed pump pressure boosting
sets for civil use
with 3 **MXVB, MXV**



pag. 458

BS1V2F, BS3V

Variable speed pump (on-board
frequency converter) pressure boosting
sets for civil use
with 3 **MXVE**



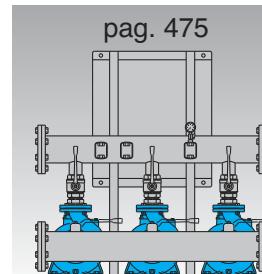
pag. 462

BS2F

Fixed speed pump pressure boosting
sets for civil use
with 2 **NM, NMD**

BS1V1F, BS2V

Variable speed pump pressure boosting
sets for civil use
with 2 **NM, NMD**



pag. 475

BS3F

Fixed speed pump pressure boosting
sets for civil use
with 3 **NM**

BS1V2F, BS3V

Variable speed pump pressure boosting
sets for civil use
with 3 **NM**

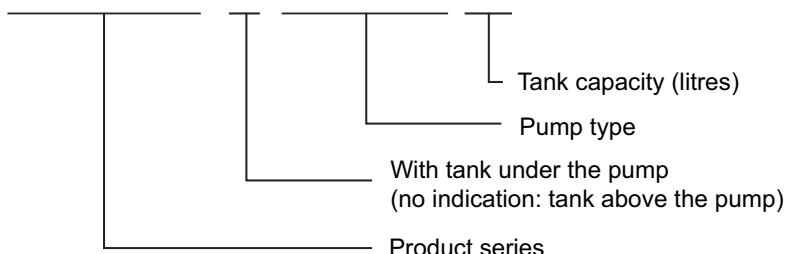
Pressure Boosting Sets



Designation

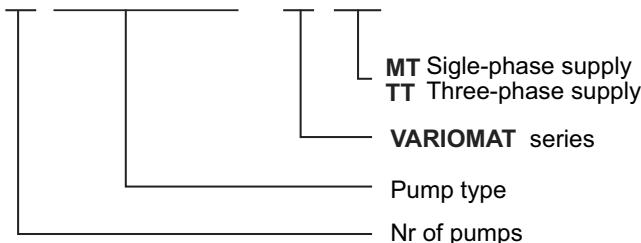
CENTRIMAT 1/1 MXH 205E /20

CENTRIMAT MXH 205E /24



2 MXH 204 - V MT

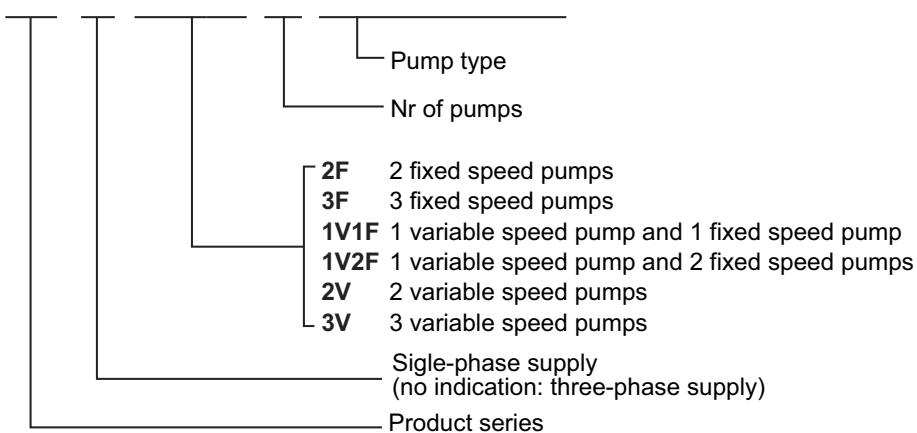
2 MXH 204 - V TT



BS M 2V 2 MXV 25/204

BS M 1V 1F 2 MXV 25/204

BS M 2F 2 MXV 25/204



To select a Pressure Boosting Set see chap. 48 technical appendix at page 517

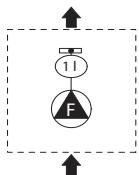
Operation

MINIMAT

with 1 fixed speed pump

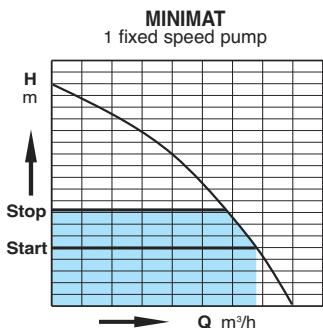
Construction

Small pressure boosting sets with automatic operation, consisting of pump, pressure switch and 1 litre diaphragm tank.



Operation

Pump is directly driven by the pressure switch.

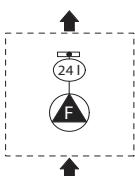


TURBOMAT, CENTRIMAT, GETTOMAT

with 1 fixed speed pump

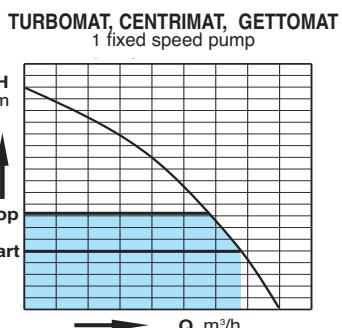
Construction

Small pressure boosting sets with automatic operation, consisting of pump, pressure switch, pressure gauge and diaphragm tank (24 litres if above the pump, 20 litres if under the pump).



Operation

Pump is directly driven by the pressure switch..

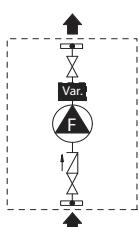


VARIOMAT

with 1 variable speed pump

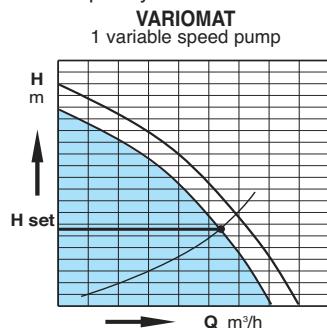
Construction

Pressure boosting sets with automatic operation and constant pressure, consisting of a variable speed pump driven by Variomat frequency converter, with gate and non-return valves, pressure gauge, 8 litres diaphragm tank.



Operation

Variable speed pump is directly driven by Variomat frequency converter.

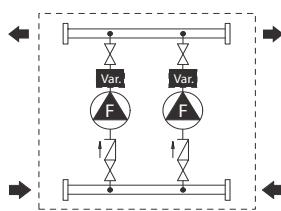


VARIOMAT

with 2 variable speed pumps

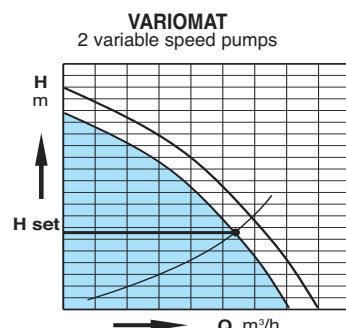
Construction

Pressure boosting sets with automatic operation and constant pressure, made up with 2 variable speed pumps on a common baseplate driven by Variomat frequency converter, with suction and delivery manifolds, gate and non-return valves, pressure gauge, 8 litres diaphragm tank and control panel with two magnetothermal switches.



Operation

Pumps starting in a cascade sequence, with changeover of pump starting sequence.



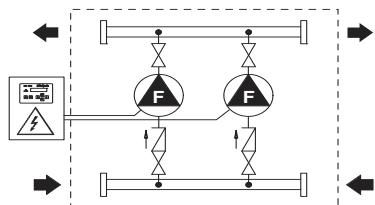
BSF

with fixed speed pumps

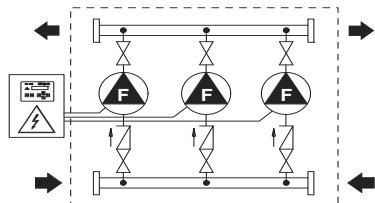
Construction

Pressure boosting sets with automatic operation, consisting in 2 and 3 pumps on a common baseplate, with suction and delivery manifolds, gate and non-return valves, pressure switches, pressure gauge, control panel and from 100 to 1000 litres diaphragm tank.

BS 2F
2 fixed speed pumps



BS 3F
3 fixed speed pumps

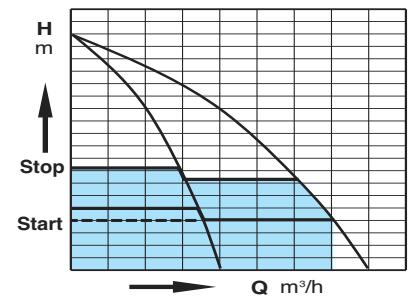


Operation

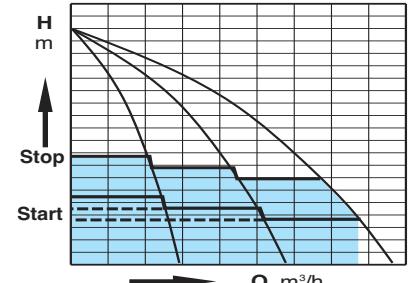
The control panel, with electronic card, manages the pump operation, the changeover of pump starting sequence and it stops the system when there is no air in the tank (patented system).

Pumps starting in a cascade sequence, with a signal from the pressure switches.

BS 2F
2 fixed speed pumps



BS 3F
3 fixed speed pumps



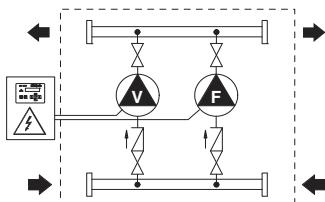
BSV.F.

with variable and fixed speed pumps (frequency converter into the control panel)

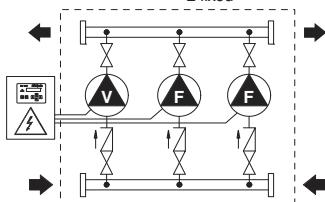
Construction

Pressure boosting sets with automatic operation, consisting of 1 variable speed pump with frequency converter into the control panel and from 1 to 5 fixed speed pumps, assembled on a common baseplate, with suction and delivery manifolds, gate and non-return valves, pressure gauge, control panel and 20 litres diaphragm tank.

BS 1V1F
2 pumps: 1 variable
1 fixed



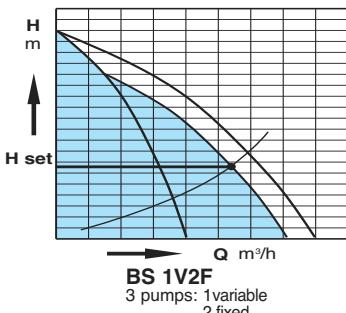
BS 1V2F
3 pumps: 1 variable
2 fixed



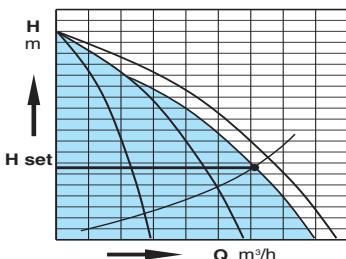
Operation

The control panel, with electronic card, manages the pump operation, the changeover of fixed speed pumps starting sequence. Pumps starting is in a cascade sequence, with a signal from the pressure transducer. Constant pressure is guaranteed by the variable speed pumps, while fixed speed pumps start when the request is higher than the capacity of the variable speed pump.

BS 1V1F
2 pumps: 1 variable
1 fixed



BS 1V2F
3 pumps: 1 variable
2 fixed



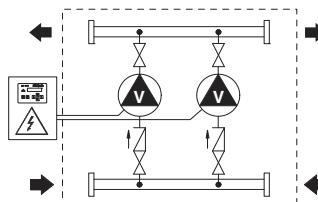
BSV

with variable speed pumps (frequency converter into the control panel)

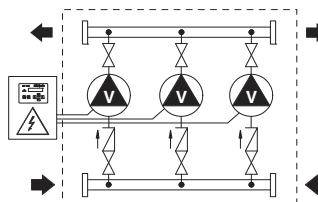
Construction

Pressure boosting sets with automatic operation, consisting of 1 variable speed pump (from 1 to 6) with frequency converter on the control panel, assembled on a common baseplate, with suction and delivery manifolds, gate and non-return valves, pressure transducer, pressure gauge, control panel and 20 litres diaphragm tank.

BS 2V
2 variable speed pumps



BS 3V
3 variable speed pumps

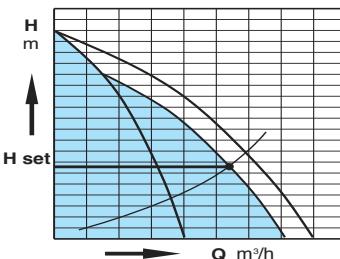


Operation

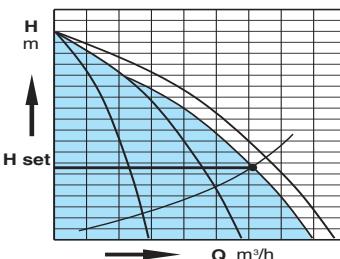
The control panel, with electronic card, manages the pump operation, the changeover of fixed speed pumps starting sequence. Pumps starting is in a cascade sequence, with a signal from the pressure transducer.

Pumps starting in a cascade sequence, with a signal from the pressure transducer. Constant pressure is guaranteed by the variable speed pumps, while fixed speed pumps start when the request is higher than the capacity of the variable speed pump.

BS 2V
2 variable speed pumps



BS 3V
3 variable speed pumps



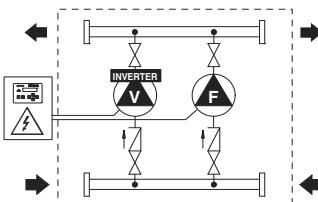
BSV.F.

with variable speed pumps (on board frequency converter)

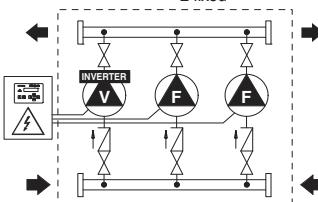
Construction

Pressure boosting sets with automatic operation, consisting of 1 variable speed pump with frequency converter on the control panel and from 1 to 5 fixed speed pumps, assembled on a common baseplate, with suction and delivery manifolds, gate and non-return valves, pressure transducer, pressure gauge, control panel and 20 litres diaphragm tank.

BS 1V1F
2 pumps: 1 variable
1 fixed



BS 1V2F
3 pumps: 1 variable
2 fixed

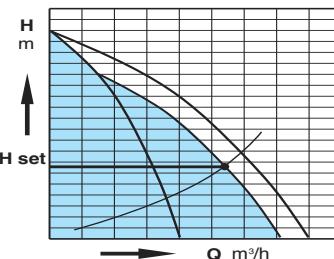


Operation

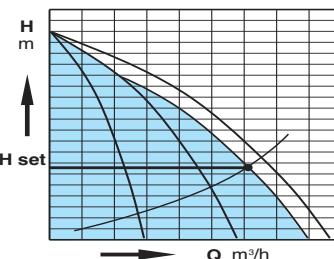
The control panel, with electronic card, manages the pump operation, the changeover of fixed speed pumps starting sequence. Pumps starting is in a cascade sequence, with a signal from the pressure transducer.

Pumps starting in a cascade sequence, with a signal from the pressure transducer. Constant pressure is guaranteed by the variable speed pumps, while fixed speed pumps start when the request is higher than the capacity of the variable speed pump.

BS 1V1F
2 pumps: 1 variable
1 fixed



BS 1V2F
3 pumps: 1 variable
2 fixed



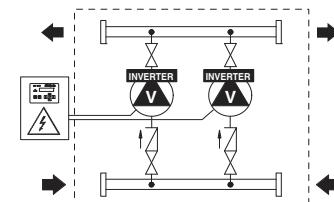
BSV

with variable speed pumps (on board frequency converter)

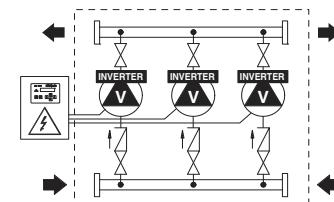
Construction

Pressure boosting sets with automatic operation, consisting of variable speed pumps (from 1 to 6) with frequency converter on the control panel, assembled on a common baseplate, with suction and delivery manifolds, gate and non-return valves, pressure transducer, pressure gauge, control panel and 20 litres diaphragm tank.

BS 2V
2 variable speed pumps



BS 3V
3 variable speed pumps

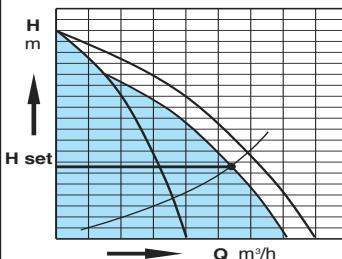


Operation

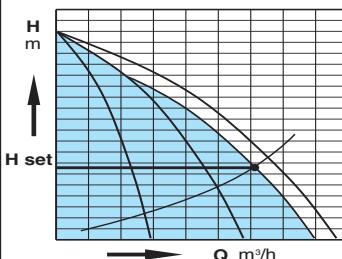
The control panel, with electronic card, manages the pump operation, the changeover of fixed speed pumps starting sequence. Pumps starting is in a cascade sequence, with a signal from the pressure transducer.

Pumps starting in a cascade sequence, with a signal from the pressure transducer.

BS 2V
2 variable speed pumps



BS 3V
3 variable speed pumps



Pressure Boosting Sets



Fixed speed pump units

New electrical control panels for fixed speed pump units.

New electrical control panels for pressurisation units, all with electronic card with microprocessors, for managing pump operation.

The **microprocessor** carries out continuous secure checks during all the various work phases of the pumps and incorporates all necessary functions, thus reducing electrical and electronic components inside the panel.

In particular:

- pumps starting in a cascade sequence according to water demand.
- changeover of pump starting sequence.
- pumps stop when there is no water in the suction.
- delay start-up of the 2nd/3rd pump in case of breakdown of pressure switch 1 or after a power cut.
- avoid pump starting in case of water hammering.
- activate the alarm when pressure 1 fails.
- activate the alarm when air cushion in the vessel drops.
- stop the pump when air cushion is over*.

* Patent pending

Maximum clarity for all signals

The status of the unit can easily be identified on the front of the electronic card with the following signals:

- Power on led.
- No water led.
- Failure led.
- Pump running led (1 for each pump).
- Thermal block led (1 for each pump).
- Pump automatic operation led (1 for each pump).
- Pump stop led (1 for each pump).



Maximum simplicity of control

The front of electronic card features the following signals and controls:

- AUT-STOP push-button (1 for each pump)
- MAN push-button (1 for each pump)
- RESET push-button.

Optional remote control

The new panels have been designed to remotely reproduce all the electronic card signals (excluding the buttons), using RC 100 - RC 200 - RC 300 panels, connected with a simple two-pole cable.

The RA 100 panel enables a remote warning light and acoustic signal.

Control panel for units up to 6 pumps

Using the MPS 6000 (Multi Pumps System) electronic card it is possible to control pressure units up to a maximum of 6 fixed speed pumps with a single pressure calibration.

Automatic air supply systems

The pump control panels are completed by microprocessor controlled systems for automatic air supply in the pressure vessels by means of a compressor or solenoid valve.

Operation

For booster sets made up to three pumps: according to the pressure decrease in the system, the pressure switches make the pumps to start in cascade mode and the starting changeover is made by the microprocessor.

For sets made of 4, 5, 6 pumps: Operation controlled by a microprocessor with signal from a pressure transducer. The pumps operate with only one pressure setting.

Pressure Boosting Sets

 calpeda®

Variable speed pump units with frequency converter

New electrical control panels for variable speed pump units.

New electrical control panels for pressurisation units with variable speed pumps.

These are indispensable in all those cases where constant pressure is required and when high pressure pumps are being controlled.

All the various working phases are managed and controlled by the MPS 6000 (Multi Pumps System) electronic card with microprocessor, which can operate up to 6 pumps working simultaneously.

Maximum clarity of signals

All the various calibration parameters appear as messages on the display of the MPS 6000 electronic card.

If there are any faults or defects a message appears on the display giving details of the problem.

Possibility of remote control

The pump status can be displayed and the unit can be controlled by means of a special computer program.

It is possible to obtain a remote warning light and acoustic signal on the RA 100 panel.

Constant or increased pressure

All the pumps can work with the same pressure value (set point), or, for systems with high head losses, the pressure can be increased depending on the number of pumps operating.

Silent operation

Motors working at reduced speed and check valves that close gradually mean that operation is particularly quite.

Long life for pumps

All the mechanical components of the pumps and motors are stressed to a minimum, due to the variable speed operation.

Energy savings

The motors consume only the precise level of power necessary moment to moment, in order to supply the quantity of water required by the system.

No more high capacity vessels

The use of inverters means that high capacity pressure vessels and membrane vessels are no longer necessary. Even units with high flowrate pumps only require a small number of 20 litre membrane vessels.

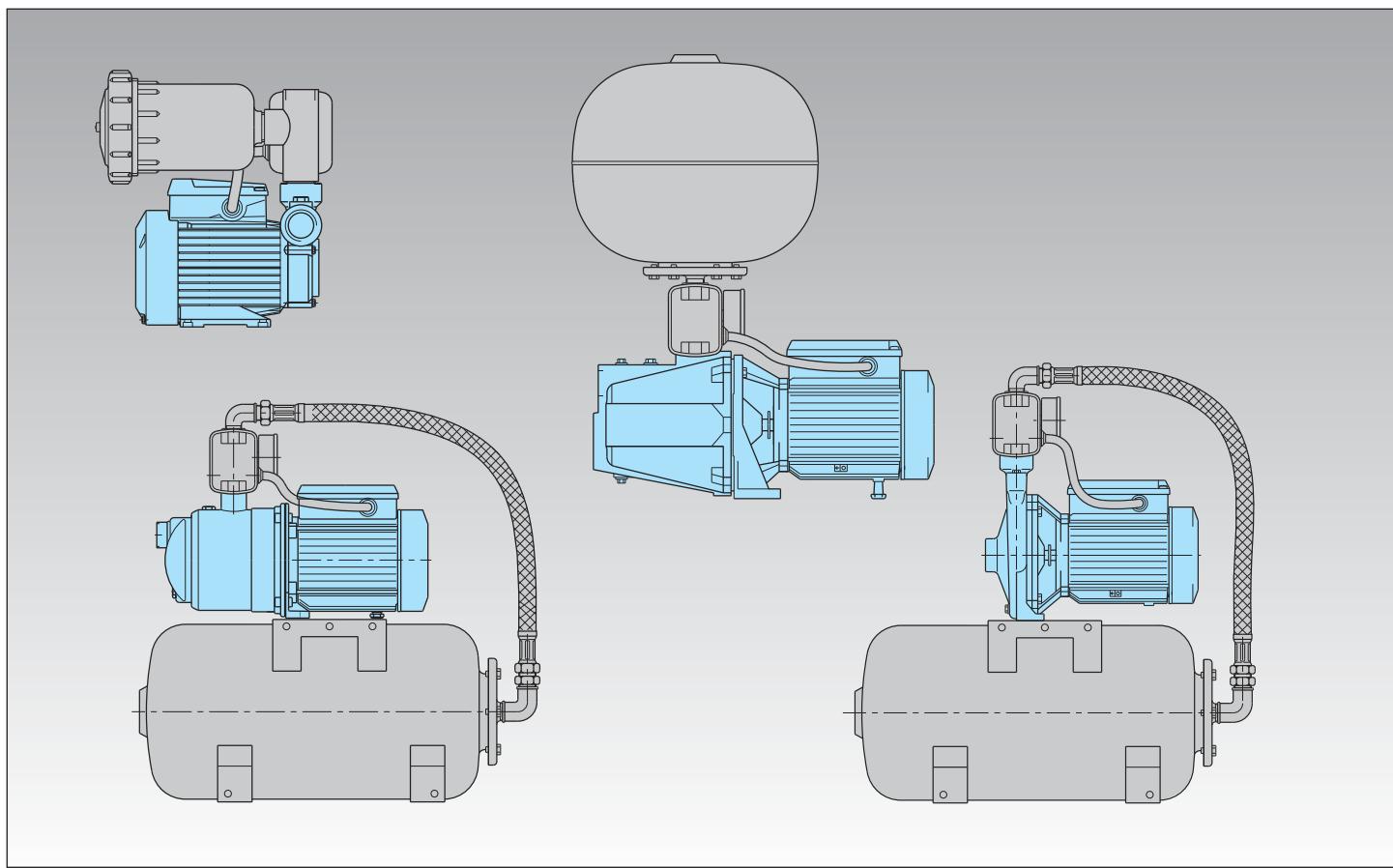
Great versatility

The great versatility of the MPS 6000 electronic card enables the construction of special units with operational logics different from those of normal pressurisation units, depending on the requirements and characteristics of the systems.

Operation

Depending on water consumption, one or more pumps are activated, all at variable speed, in order to guarantee the quantity of water required at the set pressure.





Construction

Compact, automatic autoclaves for household water feeding, consisting of:

- close-coupled pump
- membrane tank
- pressure switch
- pressure gauge (excluding MINIMAT)
- special connector
- flexible pipe for systems with pump over the vessel

Operation

According to the decrease or increase of pressure, the pressure switch determines when the pump will start or stop.

Applications

For drawing water out a well.

As pressure boosting pump for central water systems with thermal protector (follow specifications if increasing network pressure).

Motors

2-pole induction motors, 50 Hz, n=2900 rpm.

Three-phase 230/400V ± 10%.

Single-phase 230V ± 10%, with thermal protector.

Insulation class F.

Protection IP 54.

Constructed in accordance with: IEC 60034.

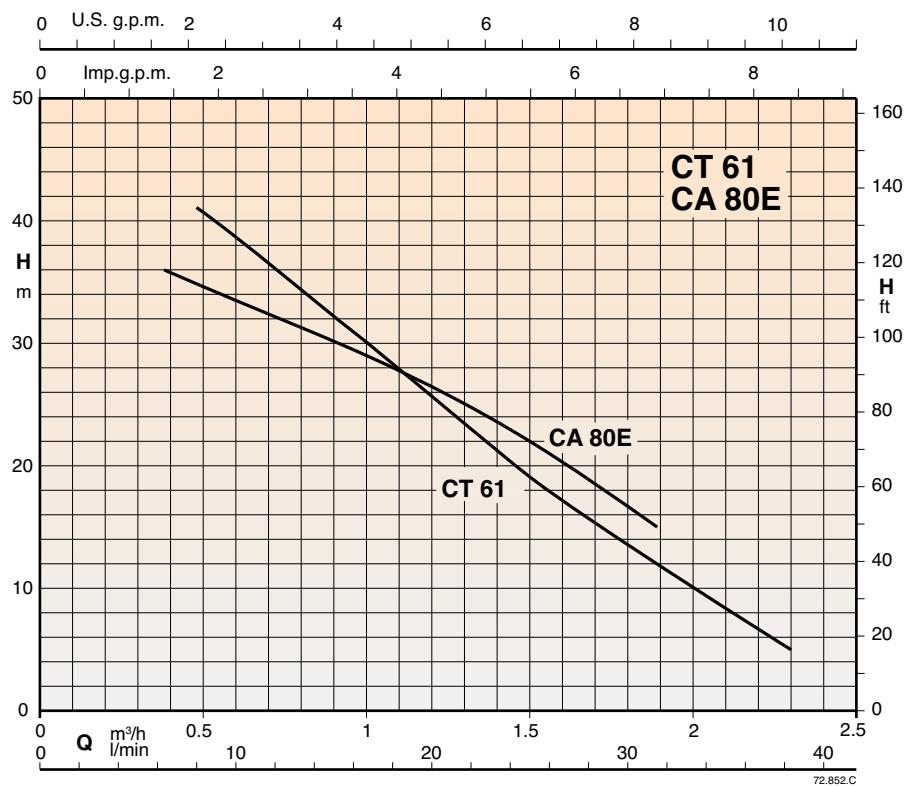
Other voltages and frequencies on request.

Vessels

Spherical with capacity 24 litres, or cylindrical with capacity 20 litres, membrane type, air preordaining with pressure 0,2 bar below the minimum pressure switch rating.

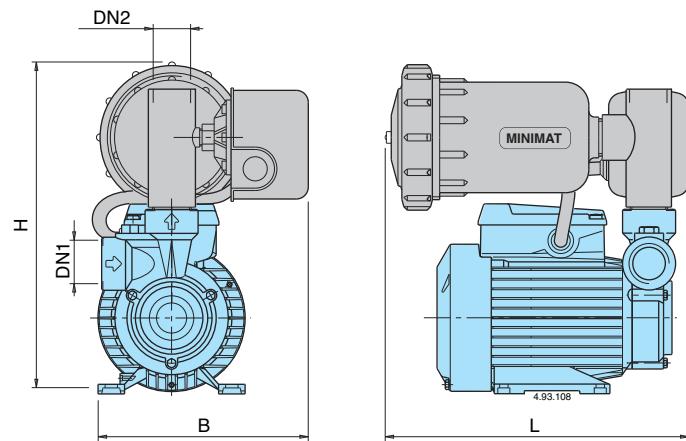
Capacity of the MINIMAT vessel 1 liter.

Coverage chart



Characteristic, dimensions and weights

MINIMAT

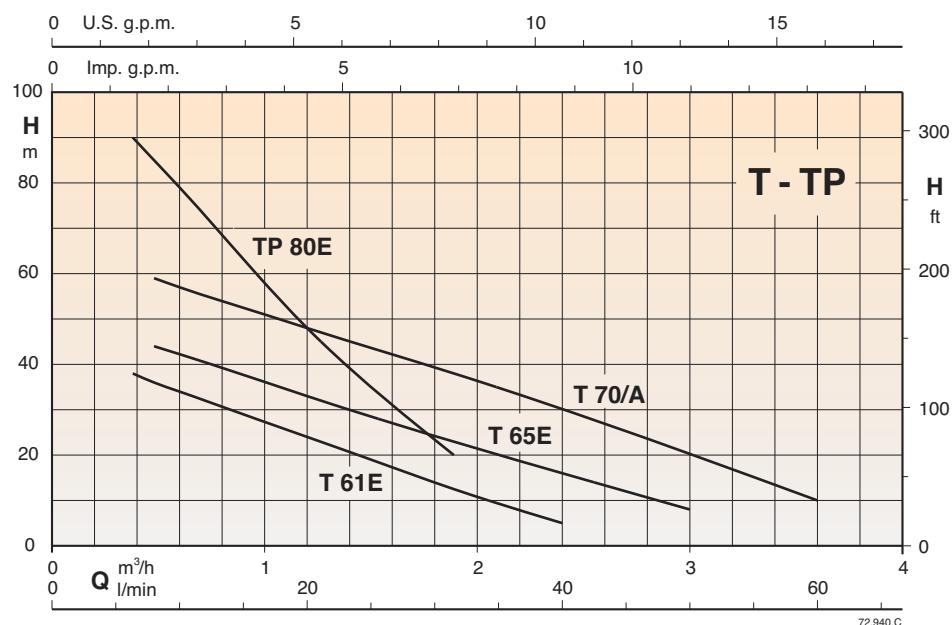


MINIMAT

3~ 230/400V	1~ 230V			Q max* l/min	Pres. switch bar	DN1	DN2	mm			kg
		kW	HP					B	L	H	
CT 61/1	CTM 61/1	0.33	0.45	30	1.4÷2.8	G1	G1	180	255	280	8
CA 80E/1	CAM 80E/1	0.45	0.6	32	1.4÷2.8	G 3/4	G1	180	255	330	11.5

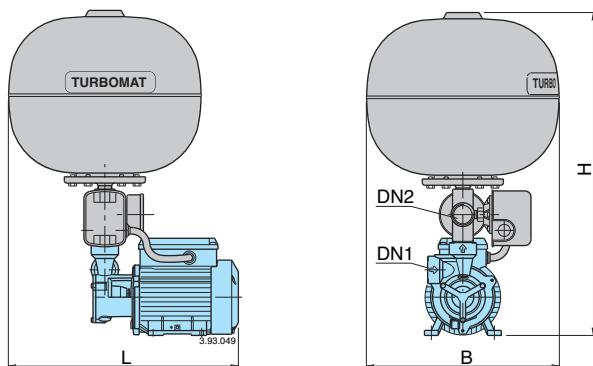
* Maximum pump flow at minimum set pressure of pressure switch.

Coverage chart

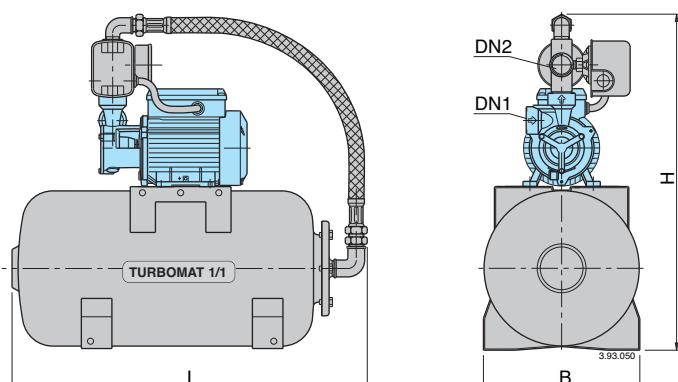


Characteristic, dimensions and weights

TURBOMAT



TURBOMAT 1/1



TURBOMAT

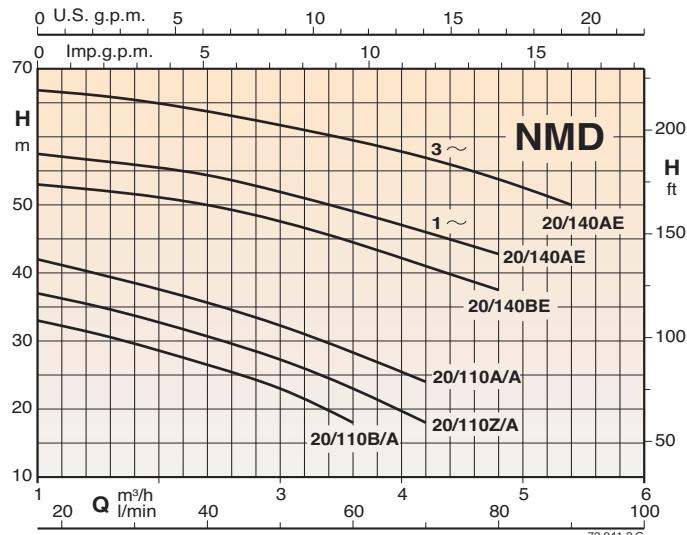
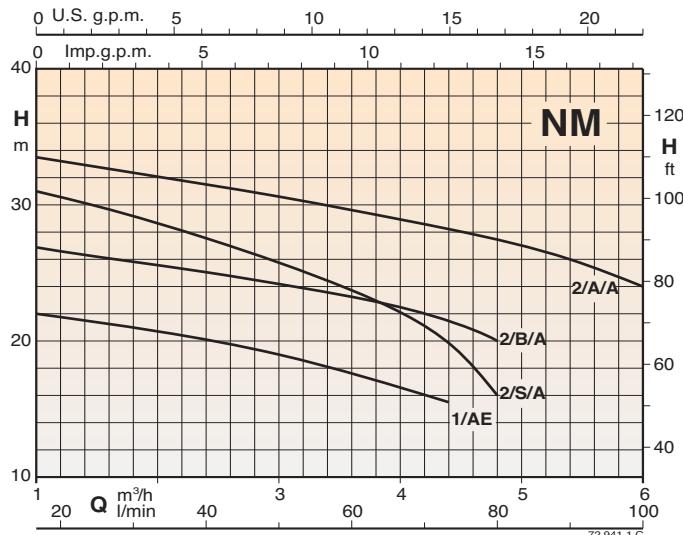
3~ 230/400V	1~ 230V	Q max*		Pres. switch bar	DN1	DN2	mm			kg
		kW	HP				B	L	H	
T 61E/24	TM 61E/24	0,33	0,45	32	1,4÷2,8	G1	G1	400	560	13,3
T 65E/24	TM 65E/24	0,45	0,6	43	1,4÷2,8	G1	G1	400	560	13,3
T 70/A/24	TM 70/A/24	0,75	1	50	2,0÷3,5	G1	G1	430	575	17,7
TP 80E/24	TPM 80E/24	0,75	1	22	4,5÷6,0	G 3/4	G1	485	575	22

TURBOMAT 1/1

3~ 230/400V	1~ 230 V	Q max*		Pres. switch bar	DN1	DN2	mm			kg
		kW	HP				B	L	H	
T 61E/20	TM 61E/20	0,33	0,45	32	1,4÷2,8	G1	G1		565	25
T 65E/20	TM 65E/20	0,45	0,6	43	1,4÷2,8	G1	G1	255	540	25
T 70/A/20	TM 70/A/20	0,75	1	50	2,0÷3,5	G1	G1		585	29
TP 80E/20	TPM 80E/20	0,75	1	22	4,5÷6,0	G 3/4	G1		585	32,2

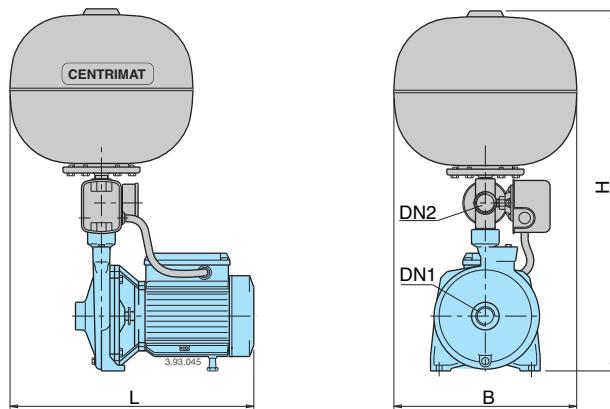
* Maximum pump flow at minimum set pressure of pressure switch.

Coverage chart

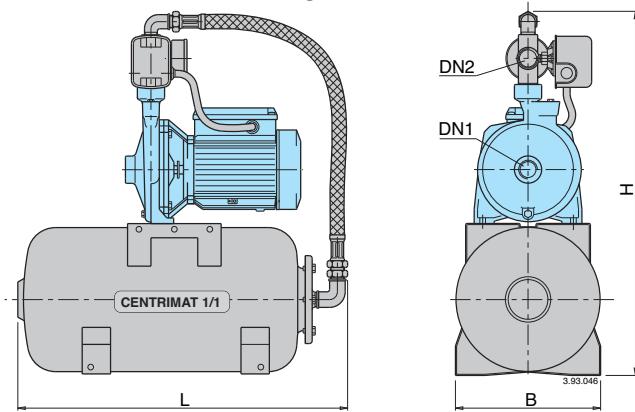


Characteristic, dimensions and weights

CENTRIMAT



CENTRIMAT 1/1



CENTRIMAT

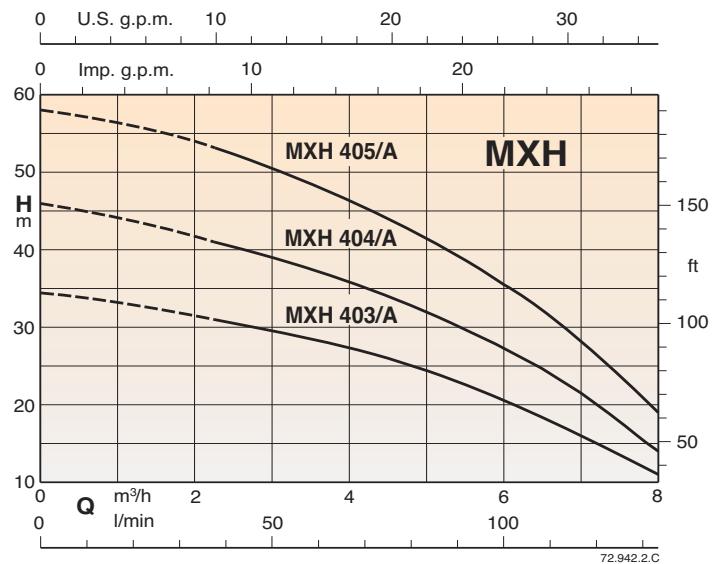
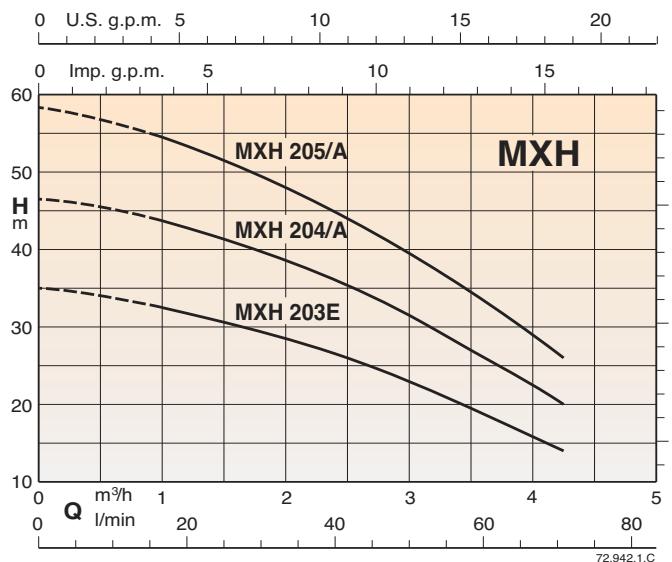
3~ 230/400V	1~ 230V			Q max* l/min	Pres. switch bar	DN1	DN2	mm			kg
		kW	HP					B	L	H	
NM 1/AE/24	NMM 1/AE/24	0,37	0,5	73	1,0÷1,8	G1	G1	400	620	17,7	
NM 2/B/A/24	NMM 2/B/A/24	0,55	0,75	80	1,4÷2,4	G1	G1	440	650	21,4	
NM 2/S/A/24	NMM 2/S/A/24	0,55	0,75	80	1,4÷2,8	G1	G1	440	650	21,5	
NM 2/A/A/24	NMM 2/A/A/24	0,75	1	100	2,0÷3,0	G1	G1	440	650	22,7	
NMD 20/110B/A/24	NMDM 20/110B/A/24	0,45	0,6	60	1,4÷2,8	G 11/4	G1	360	430	635	21,2
NMD 20/110Z/A/24	NMDM 20/110Z/A/24	0,55	0,75	70	1,8÷3,2	G 11/4	G1	430	635	22,3	
NMD 20/110A/A/24	NMDM 20/110A/A/24	0,75	1	70	2,2÷3,6	G 11/4	G1	430	635	23,4	
NMD 20/140BE/24	NMDM 20/140BE/24	1,1	1,5	80	3,5÷5,0	G 11/4	G1	510	670	30,7	
NMD 20/140AE/24	NMDM 20/140AE/24	1,5	2	80	4,0÷5,5	G 11/4	G1	510	670	33	
NMD 20/140AE/24								510	670	32	

CENTRIMAT 1/1

3~ 230/400V	1~ 230V			Q max* l/min	Pres. switch bar	DN1	DN2	mm			kg
		kW	HP					B	L	H	
NM 1/AE/20	NMM 1/AE/20	0,37	0,5	73	1,0÷1,8	G1	G1			605	18,5
NM 2/B/A/20	NMM 2/B/A/20	0,55	0,75	80	1,4÷2,4	G1	G1			635	22,2
NM 2/S/A/20	NMM 2/S/A/20	0,55	0,75	80	1,4÷2,8	G1	G1			635	22,3
NM 2/A/A/20	NMM 2/A/A/20	0,75	1	100	2,0÷3,0	G1	G1			635	23,5
NMD 20/110B/A/20	NMDM 20/110B/A/20	0,45	0,6	60	1,4÷2,8	G 11/4	G1	255	540	620	22
NMD 20/110Z/A/20	NMDM 20/110Z/A/20	0,55	0,75	70	1,8÷3,2	G 11/4	G1			620	23,1
NMD 20/110A/A/20	NMDM 20/110A/A/20	0,75	1	70	2,2÷3,6	G 11/4	G1			620	24,2
NMD 20/140BE/20	NMDM 20/140BE/20	1,1	1,5	80	3,5÷5,0	G 11/4	G1			675	31,5
NMD 20/140AE/20	NMDM 20/140AE/20	1,5	2	80	4,0÷5,5	G 11/4	G1			675	33
NMD 20/140AE/20										675	32

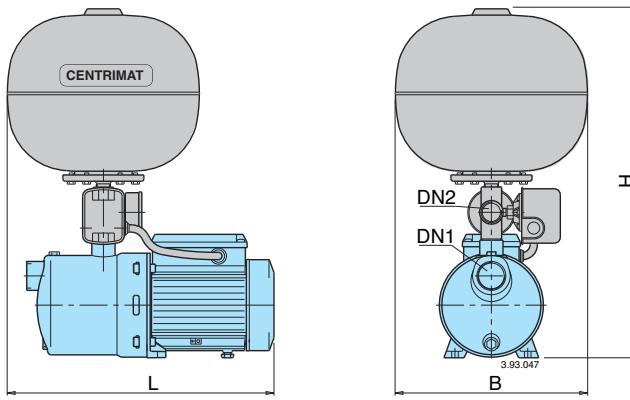
* Maximum pump flow at minimum set pressure of pressure switch.

Coverage chart

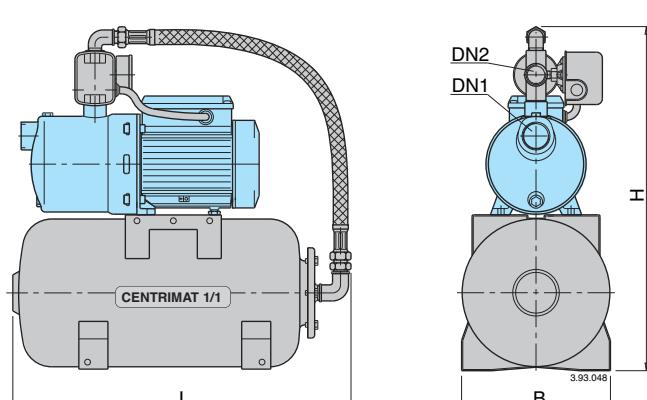


Characteristic, dimensions and weights

CENTRIMAT



CENTRIMAT 1/1



CENTRIMAT

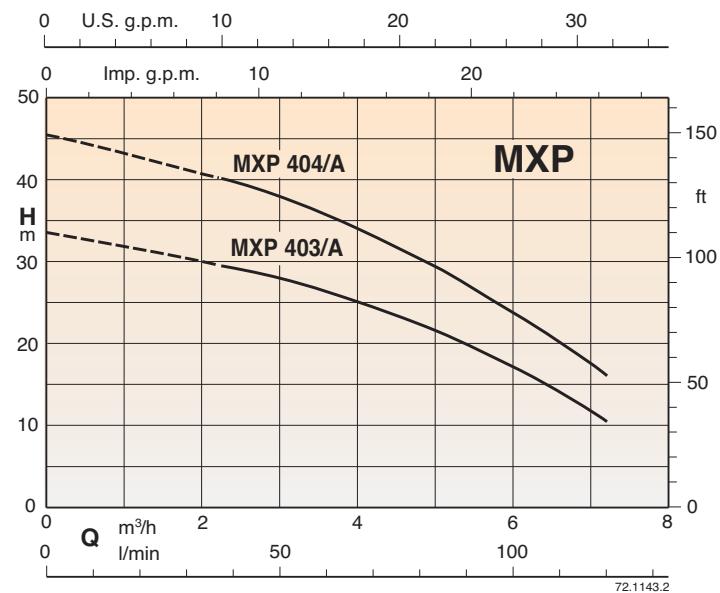
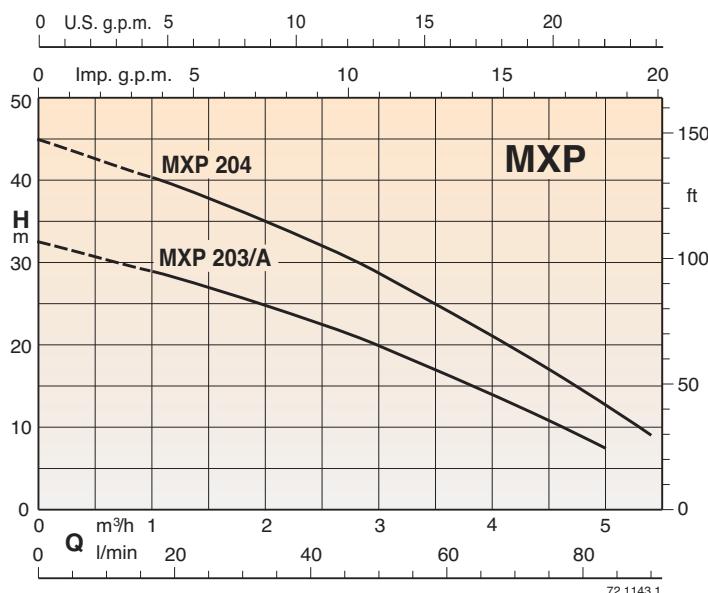
3~ 230/400V	1~ 230V			Q max* l/min	Pres. switch bar	DN1	DN2	mm			kg
		kW	HP					B	L	H	
MXH 203E/24	MXHM 203E/24	0,45	0,6	70	1,5÷3,0	G 11/4	G1	417	590	15	
MXH 204/A/24	MXHM 204/A/24	0,55	0,75	62	2,5÷4,0	G 11/4	G1	443	590	16,5	
MXH 205/A/24	MXHM 205/A/24	0,75	1	65	3,0÷4,5	G 11/4	G1	443	590	18	
MXH 403/A/24	MXHM 403/A/24	0,55	0,75	120	1,5÷3,0	G 11/4	G1	443	590	16	
MXH 404/A/24	MXHM 404/A/24	0,75	1	110	2,5÷4,0	G 11/4	G1	443	590	17,5	
MXH 405/A/24	MXHM 405/24	1,1	1,5	115	3,0÷4,5	G 11/4	G1	502	590	23,5	
MXH 405/A/24		1,1	1,5	115	3,0÷4,5	G 11/4	G1	443	590	18,5	

CENTRIMAT 1/1

3~ 230/400V	1~ 230V			Q max* l/min	Pres. switch bar	DN1	DN2	mm			kg
		kW	HP					B	L	H	
MXH 203E/20	MXHM 203E/20	0,45	0,6	70	1,5÷3,0	G 11/4	G1	540	600	16	
MXH 204/A/20	MXHM 204/A/20	0,55	0,75	62	2,5÷4,0	G 11/4	G1	540	600	17,5	
MXH 205/A/20	MXHM 205/A/20	0,75	1	65	3,0÷4,5	G 11/4	G1	540	600	19	
MXH 403/A/20	MXHM 403/A/20	0,55	0,75	120	1,5÷3,0	G 11/4	G1	255	540	600	17
MXH 404/A/20	MXHM 404/A/20	0,75	1	110	2,5÷4,0	G 11/4	G1	540	600	18,5	
MXH 405/A/20	MXHM 405/20	1,1	1,5	115	3,0÷4,5	G 11/4	G1	540	600	24,5	
MXH 405/A/20		1,1	1,5	115	3,0÷4,5	G 11/4	G1	540	600	19,5	

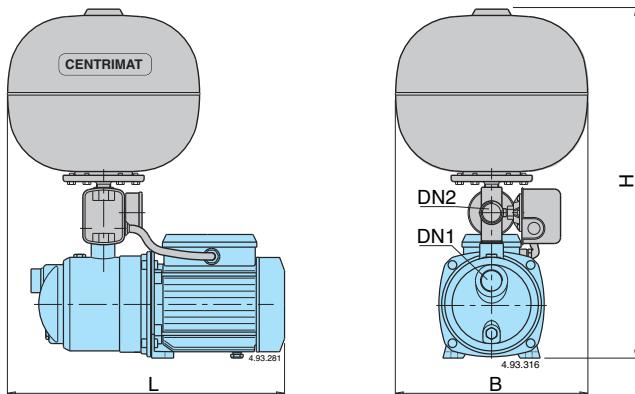
* Maximum pump flow at minimum set pressure of pressure switch.

Coverage chart

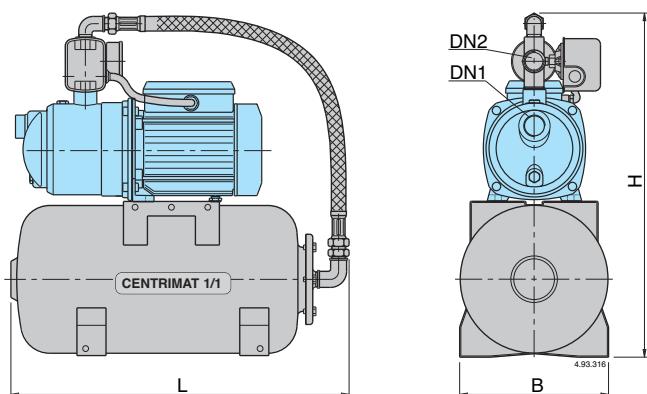


Characteristic, dimensions and weights

CENTRIMAT



CENTRIMAT 1/1



CENTRIMAT

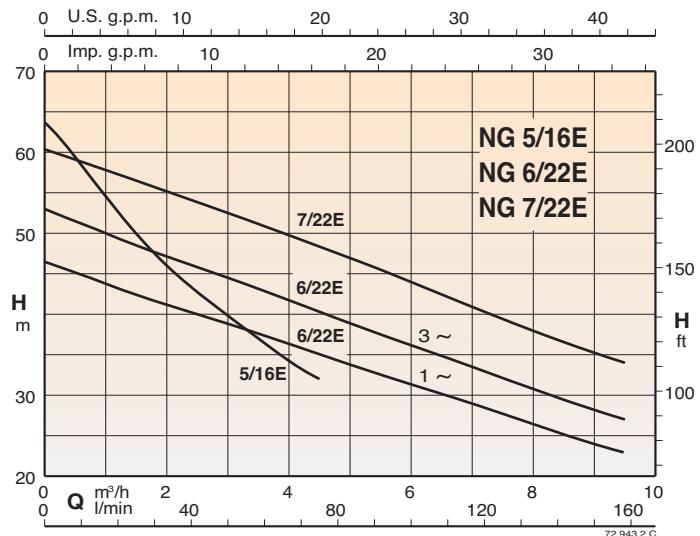
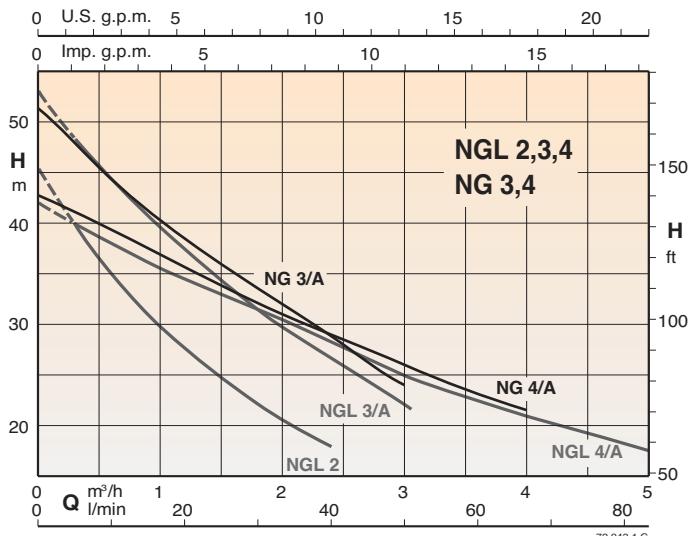
3~ 230/400V	1~ 230V			Q max*	Pres. switch bar	DN1	DN2	mm			kg
		kW	HP					B	L	H	
MXP 203/24	MXPM 203/24	0,45	0,6	65	1,5÷2,7	G 1	G 1	427	583	14	
MXP 204/A/24	MXPM 204/A/24	0,55	0,75	70	2,0÷3,5	G 1	G 1	456	583	15	
MXP 403/A/24	MXPM 403/A/24	0,55	0,75	110	1,5÷2,7	G 1	G 1	456	583	15	
MXP 404/A/24	MXPM 404/A/24	0,75	1	110	2,0÷3,5	G 1	G 1	456	583	16	

CENTRIMAT 1/1

3~ 230/400V	1~ 230V			Q max*	Pres. switch bar	DN1	DN2	mm			kg
		kW	HP					B	L	H	
MXP 203/20	MXPM 203/20	0,45	0,6	65	1,5÷2,7	G 1	G 1	540	593	15	
MXP 204/A/20	MXPM 204/A/20	0,55	0,75	70	2,0÷3,5	G 1	G 1	540	593	16	
MXP 403/A/20	MXPM 403/A/20	0,55	0,75	110	1,5÷2,7	G 1	G 1	540	593	16	
MXP 404/A/20	MXPM 404/A/20	0,75	1	110	2,0÷3,5	G 1	G 1	540	593	17	

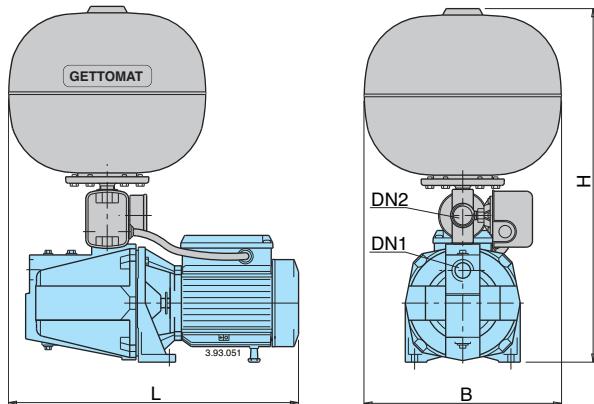
* Maximum pump flow at minimum set pressure of pressure switch.

Coverage chart

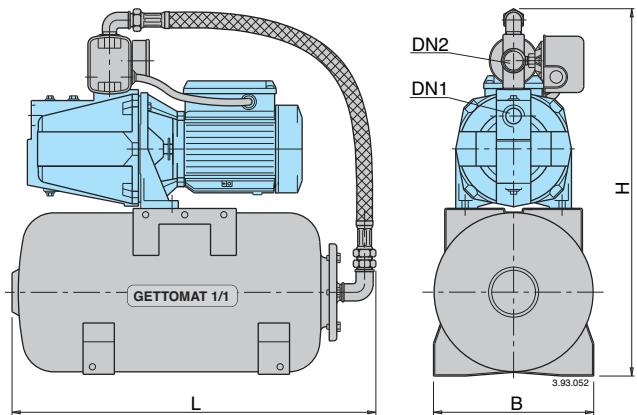


Characteristic, dimensions and weights

GETTOMAT



GETTOMAT 1/1



GETTOMAT

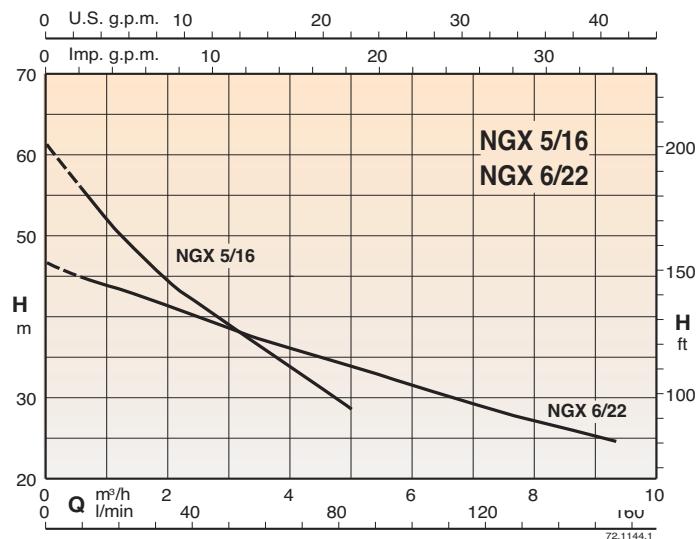
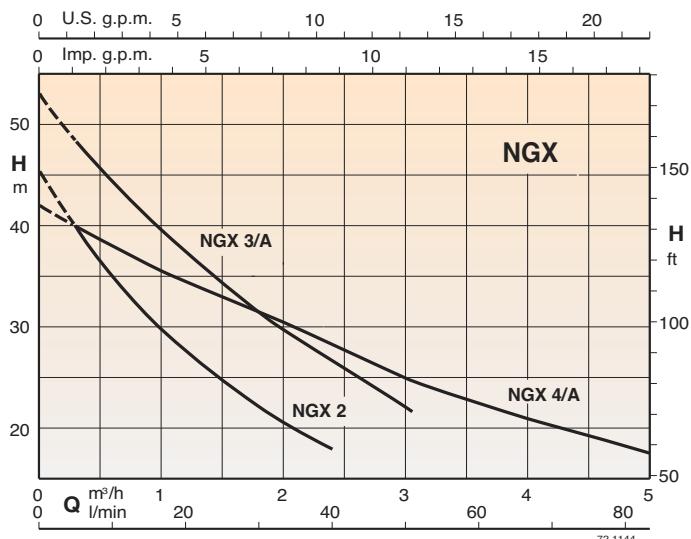
3~ 230/400V	1~ 230V			Q max * l/min	Pres. switch bar	DN1	DN2	mm			kg
		kW	HP					B	L	H	
NGL 2/24	NGLM 2/24	0,45	0,6	35	2,0-3,5	G 1	G1	427	583	14,5	
NGL 3/A/24	NGLM 3/A/24	0,55	0,75	45	2,5-4,0	G 1	G1	456	583	16,5	
NGL 4/A/24	NGLM 4/A/24	0,75	1	72	2,0-3,5	G 1	G1	456	583	17,5	
NG 3/A/24	NGM 3/A/24	0,55	0,75	50	2,5-4,0	G 1	G1	480	610	25,1	
NG 4/A/24	NGM 4/A/24	0,75	1	65	2,0-3,5	G 1	G1	480	610	28,9	
NG 5/16E/24	NGM 5/16E/24	1,1	1,5	65	3,5-5,0	G 1 1/2	G1	570	650	35,5	
	NGM 6/22E/24	1,5	2	140	2,5-4,0	G 1 1/2	G1	570	650	37,5	
NG 6/22E/24	-	1,5	2	140	3,0-4,5	G 1 1/2	G1	570	650	37,5	
NG 7/22E/24	-	2,2	3	150	3,5-5,0	G 1 1/2	G1	570	650	39,5	

GETTOMAT 1/1

3~ 230/400V	1~ 230V			Q max * l/min	Pres. switch bar	DN1	DN2	mm			kg
		kW	HP					B	L	H	
NGL 2/20	NGLM 2/20	0,45	0,6	35	2,0-3,5	G 1	G1	540	593	15,5	
NGL 3/A/20	NGLM 3/A/20	0,55	0,75	45	2,5-4,0	G 1	G1	540	593	17,5	
NGL 4/A/20	NGLM 4/A/20	0,75	1	72	2,0-3,5	G 1	G1	540	593	18,5	
NG 3/A/20	NGM 3/A/20	0,55	0,75	50	2,5-4,0	G 1	G1	580	610	26	
NG 4/A/20	NGM 4/A/20	0,75	1	65	2,0-3,5	G 1	G1	580	610	29,7	
NG 5/16E/20	NGM 5/16E/20	1,1	1,5	65	3,5-5,0	G 1 1/2	G1	580	640	36,2	
	NGM 6/22E/20	1,5	2	140	2,5-4,0	G 1 1/2	G1	580	640	38,5	
NG 6/22E/20	-	1,5	2	140	3,0-4,5	G 1 1/2	G1	580	640	38,5	
NG 7/22E/20	-	2,2	3	150	3,5-5,0	G 1 1/2	G1	580	640	40	

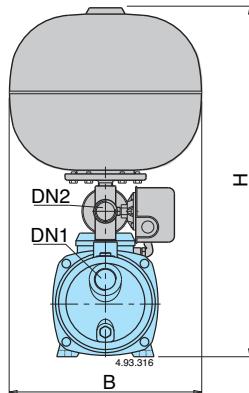
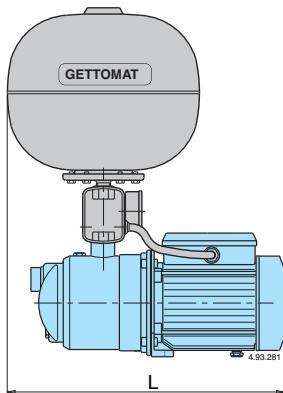
* Maximum pump flow at minimum set pressure of pressure switch.

Coverage chart

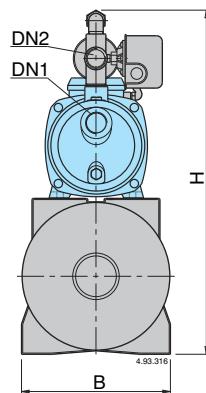
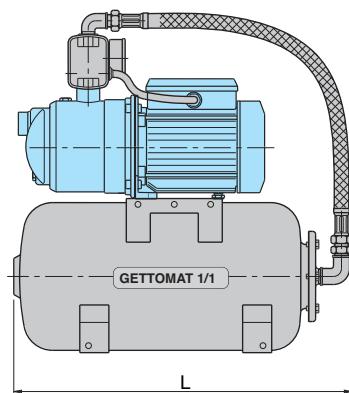


Characteristic, dimensions and weights

GETTOMAT



GETTOMAT 1/1



GETTOMAT

3~ 230/400V	1~ 230V			Q max* l/min	Pres. switch bar	DN1	DN2	mm			kg
		kW	HP					B	L	H	
NGX 2/24	NGXM 2/24	0,45	0,6	35	2,0÷3,5	G 1	G1	427	583	14,5	
NGX 3/A/24	NGXM 3/A/24	0,55	0,75	45	2,5÷4,0	G 1	G1	456	583	16,5	
NGX 4/A/24	NGXM 4/A/24	0,75	1	72	2,0÷3,5	G 1	G1	360	456	583	17,5
NGX 5/16/24	NGXM 5/16/24	1,1	1,5	62	3,5÷5,0	G 11/4	G1	528	626	23,5	
NGX 5/16/24	NGXM 6/22/24	1,5	2	150	2,5÷4,0	G 11/4	G1	528	626	25,5	

GETTOMAT 1/1

3~ 230/400V	1~ 230V			Q max* l/min	Pres. switch bar	DN1	DN2	mm			kg
		kW	HP					B	L	H	
NGX 2/20	NGXM 2/20	0,45	0,6	35	2,0÷3,5	G 1	G1	540	593	15,5	
NGX 3/A/20	NGXM 3/A/20	0,55	0,75	45	2,5÷4,0	G 1	G1	540	593	17,5	
NGX 4/A/20	NGXM 4/A/20	0,75	1	72	2,0÷3,5	G 1	G1	255	540	593	18,5
NGX 5/16/20	NGXM 5/16/20	1,1	1,5	62	3,5÷5,0	G 11/4	G1	540	638	24,5	
NGX 6/22/20	NGXM 6/22/20	1,5	2	150	2,5÷4,0	G 11/4	G1	540	638	26,5	

* Maximum pump flow at minimum set pressure of pressure switch.

1MXP.EM, 1MGP.EM, 1MXH.EM, 1MXSU.EM, 1MXVB.EM

Constant pressure boosting sets with **EASYMAT** frequency converter



Execution

Constant pressure boosting sets with one pump and EASYMAT frequency converter
Ball valve and non return valve on suction side, ball valve and pressure gauge on delivery side
Suitable for installation of a 8-lt cylindrical pressure vessel on delivery side

EASYMAT device:

Frequency converter installed directly on the pump delivery pipe and water cooled (patented).
Only three parameters to set at starting:

- Maximum motor current
- Working frequency
- Working pressure

Possibility to display:

- Pressure of the system
- Working frequency
- Absorbed current
- Alarms

Operation

CONSTANT PRESSURE MODE:

the system keeps the pressure constant when the quantity of water requested by the user changes.
According to the water consumption, the pump at variable speed ensures the required water quantity at the set pressure

FIXED SPEED MODE:

the system works at a fixed speed that user can choose according to his need.

Applications

For drawing water out of a well
As pressure boosting pump for central water systems with low pressure (follow local specifications if increasing network pressure)

Motors

2-pole induction motors, 50Hz, n=2900 rpm, suitable for operation with frequency converter

- Single-phase 230V +/-10%
- Three-phase 230V +/-10%

Class F insulation

IP 54 protection

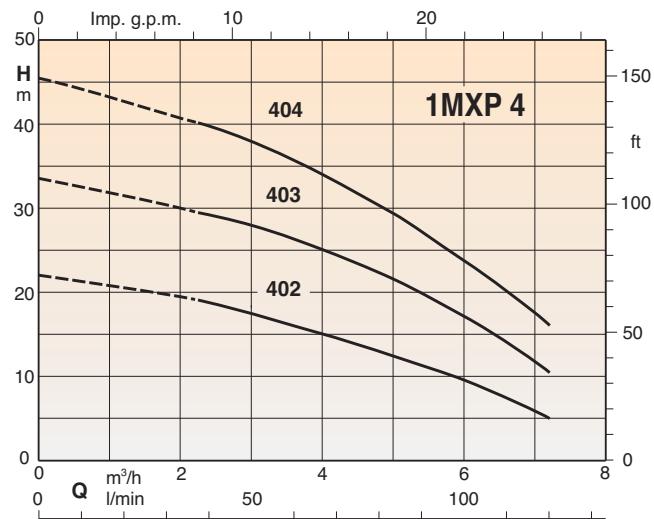
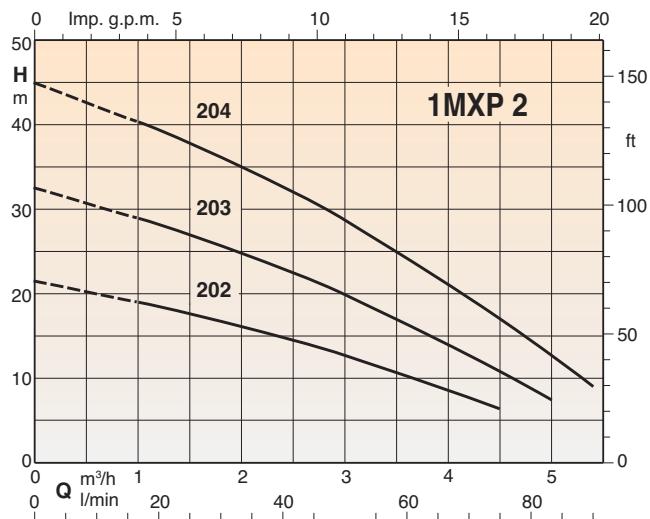
Execution according IEC 60034

Other voltages on demand

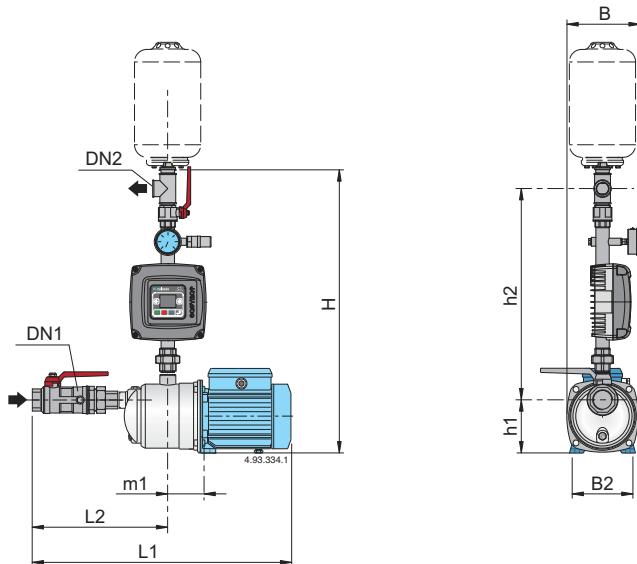
Pressure vessels (on demand)

Cylindrical with capacity 8 liters, membrane type, air precharged

Coverage chart

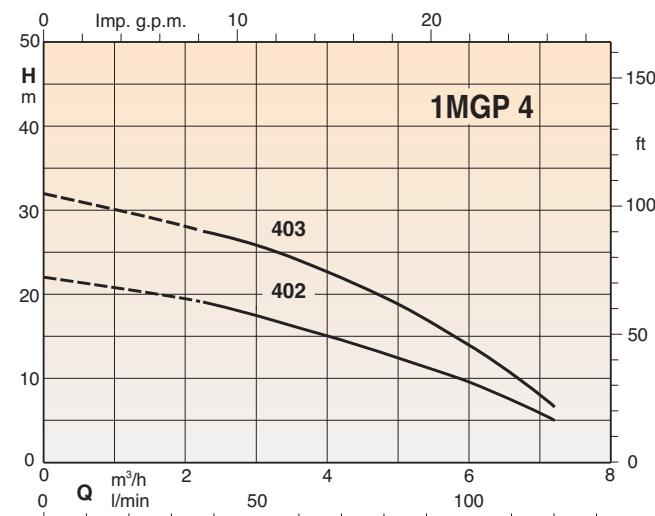
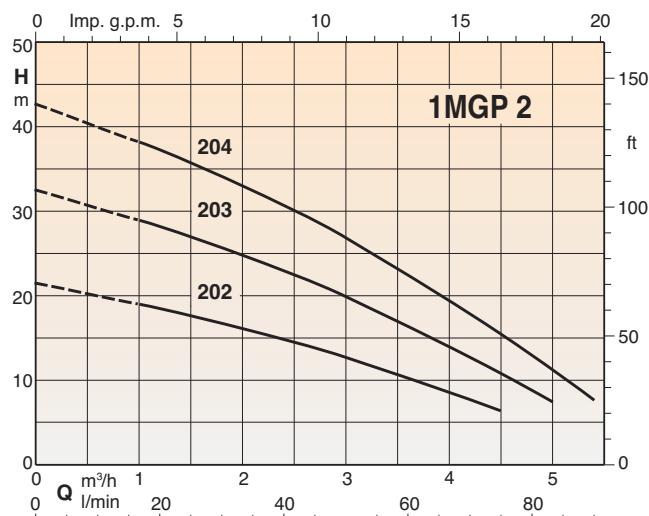


Characteristic and dimensions

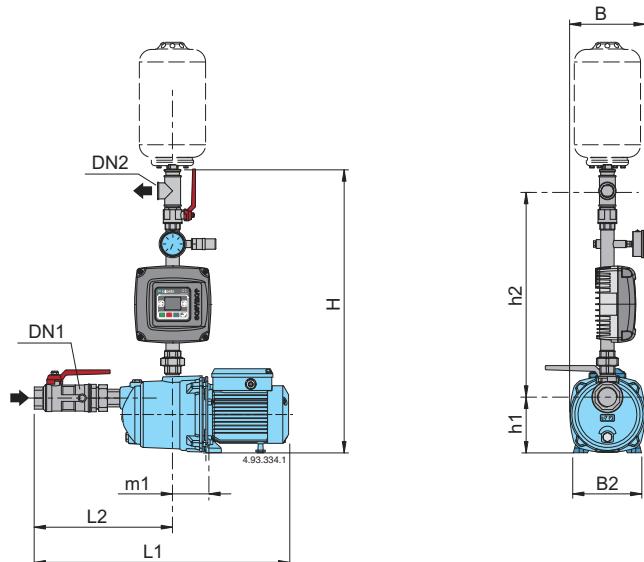


	Mains: 1~ 230V Motor: 3~ 230V		Mains: 1~ 230V Motor: 1~ 230V		P ₂		DN1	DN2	mm							
	mains A	motor A	A	kW	HP	H	h1	h2	L1	L2	m1	B	B2			
1MXP 202-EMT	2,1	1,7	1MXP 202-EMM	2,3	0,33	0,45			516							
1MXP 203-EMT	3,2	2,4	1MXP 203-EMM	3	0,45	0,6	G 1	G 1	680	127	495	516	269	95	165	146
1MXP 204/A-EMT	4	2,8	1MXP 204/A-EMM	4,2	0,55	0,75			545							
1MXP 402-EMT	3,2	2,4	1MXP 402-EMM	3	0,45	0,6			516							
1MXP 403/A-EMT	4	2,8	1MXP 403/A-EMM	4,2	0,55	0,75	G 1	G 1	680	127	495	545	269	95	165	146
1MXP 404/A-EMT	5	3,5	1MXP 404/A-EMM	5,4	0,75	1			545							

Coverage chart

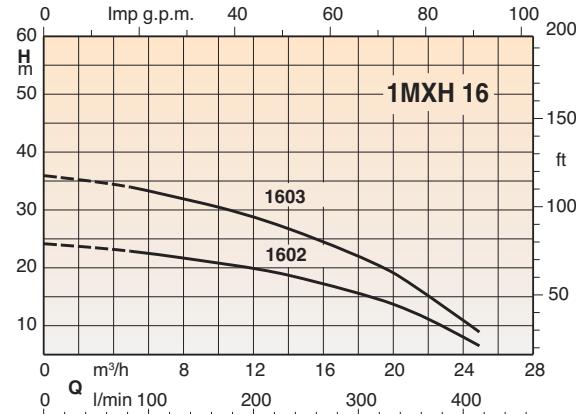
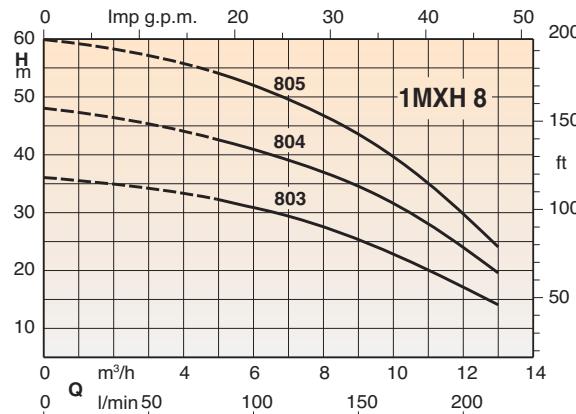
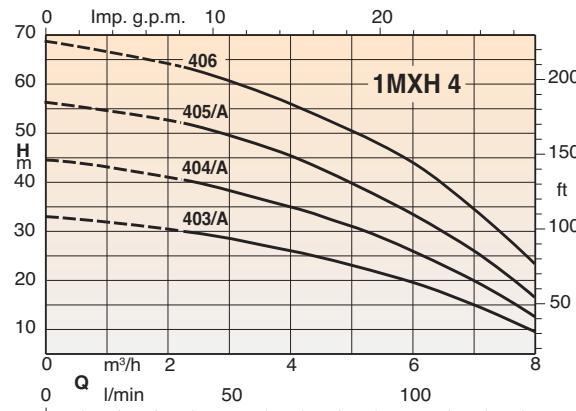
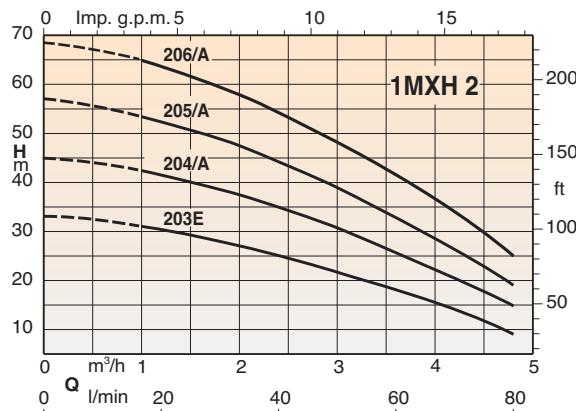


Characteristic and dimensions

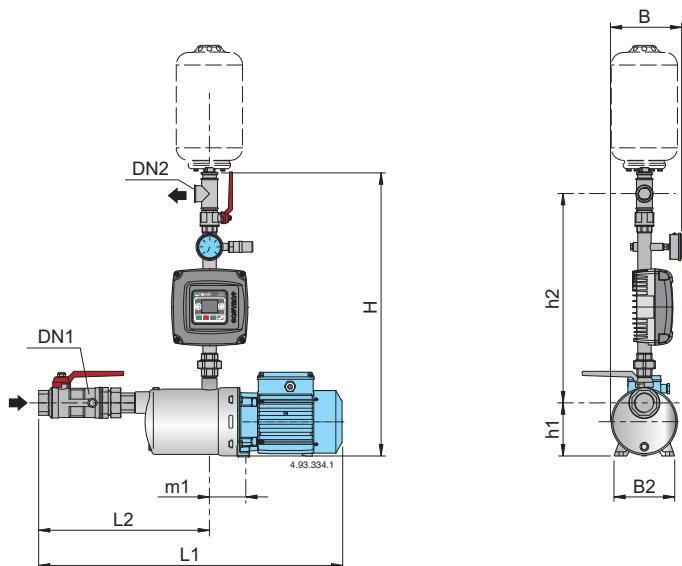


Mains: 1~ 230V Motor: 3~ 230V			Mains: 1~ 230V Motor: 1~ 230V	P ₂		DN1	DN2	mm								
	mains A	motor A		A	kW	HP		H	h1	h2	L1	L2	m1	B	B2	
1MGP 202-EMT	2,1	1,7	1MGPM 202-EMM	2,3	0,33	0,45										
1MGP 203-EMT	3,2	2,4	1MGPM 203-EMM	3	0,45	0,6	G 1	G 1	685	116	504	516	269	95	165	146
1MGP 204-EMT	4	2,8	1MGPM 204-EMM	3,3	0,55	0,75										
1MGP 402-EMT	3,2	2,4	1MGPM 402-EMM	3	0,45	0,6	G 1	G 1	685	116	504	516	269	95	165	146
1MGP 403-EMT	4,3	3	1MGPM 403-EMM	3,5	0,55	0,75										

Coverage chart

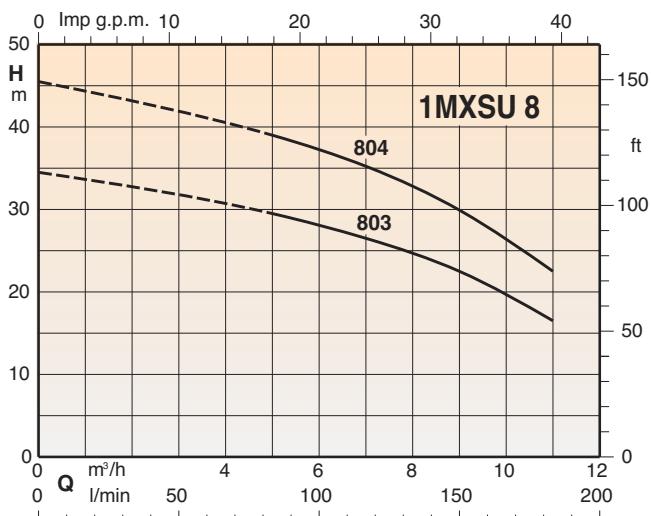
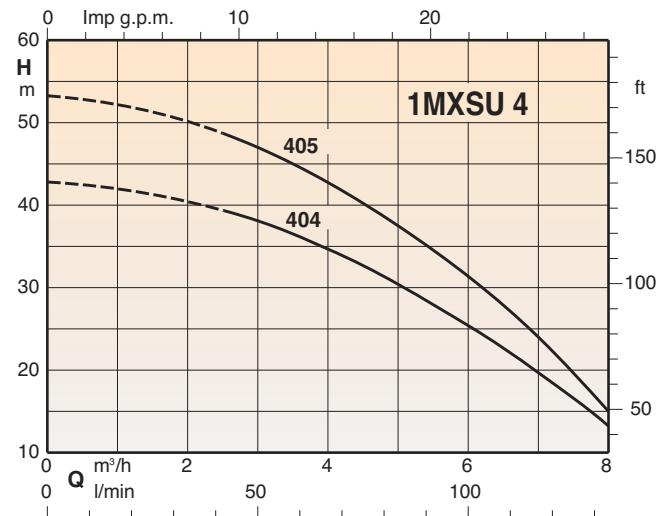
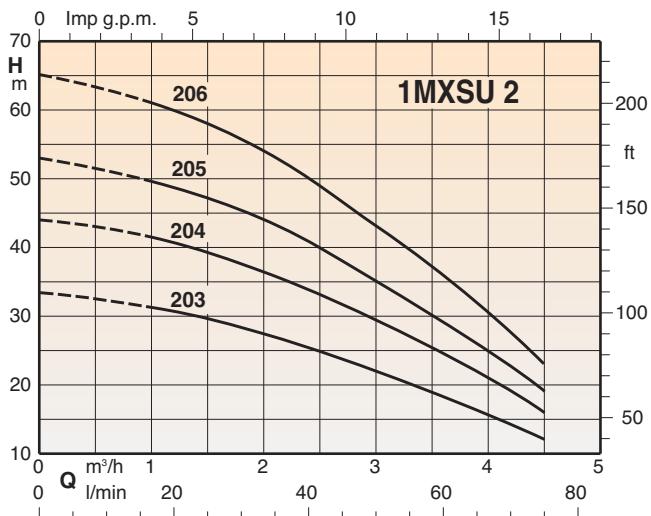


Characteristic and dimensions

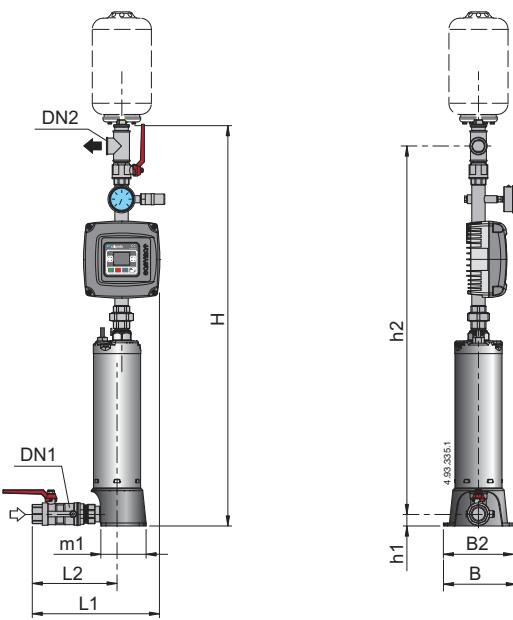


Mains: 1~ 230V Motor: 3~ 230V			Mains: 1~ 230V Motor: 1~ 230V		P2				mm							
	mains	motor			A	kW	HP	H	h1	h2	L1	L2	m1	B		
1MXH 203E-EMT	3,2	2,4	1MXHM 203E-EMM	3	0,45	0,6				511	274					
1MXH 204/A-EMT	4	2,8	1MXHM 204/A-EMM	4,2	0,55	0,75				561	298					
1MXH 205/A-EMT	5	3,5	1MXHM 205/A-EMM	5,4	0,75	1				585	322					
1MXH 206/A-EMT	6,3	4,7	1MXHM 206/A-EMM	7,4	1,1	1,5				609	346					
1MXH 403/A-EMT	4	2,8	1MXHM 403/A-EMM	4,2	0,55	0,75				537	274					
1MXH 404/A-EMT	5	3,5	1MXHM 404/A-EMM	5,4	0,75	1				561	298					
1MXH 405/A-EMT	6,7	4,7	1MXHM 405/A-EMM	7,4	1,1	1,5				585	322					
1MXH 406-EMT	8	6,4			1,5	2				680	346					
1MXH 803-EMT	7,1	5	1MXHM 803-EMM	7,4	1,1	1,5				657	323					
1MXH 804-EMT	8,6	6,4			1,5	2				687	353					
1MXH 805-EMT	10,7	7,5			1,8	2,5				717	383					
1MXH 1602-EMT	9,1	6,4			1,5	2				752	404					
1MXH 1603-EMT	10,7	7,5			1,8	2,5				752	404					

Coverage chart

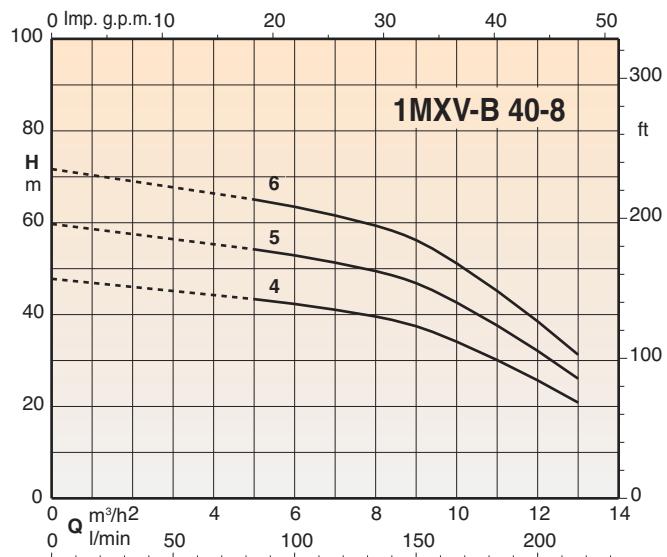
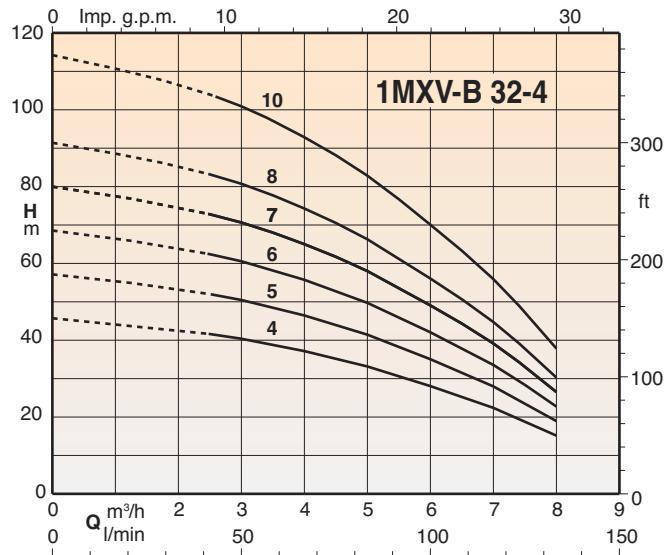
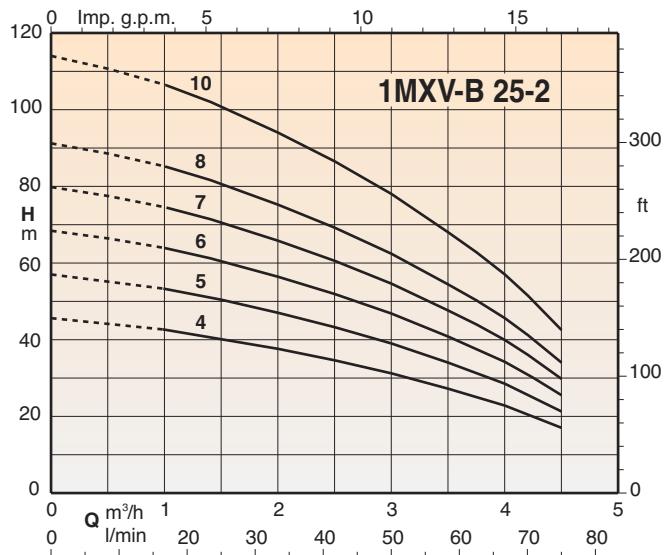


Characteristic and dimensions

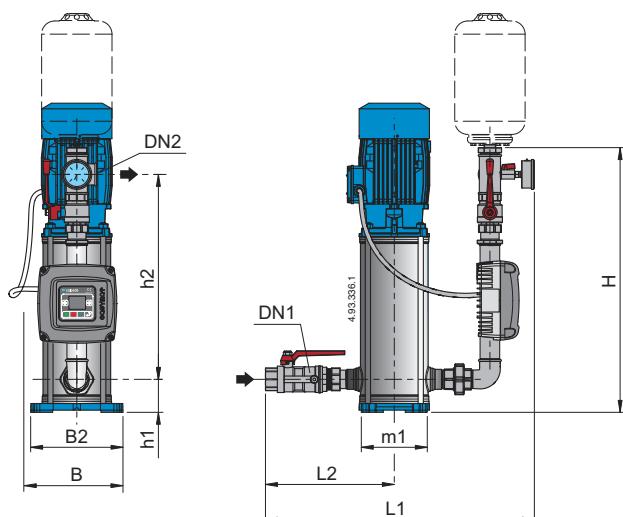


	Mains: 1~ 230V Motor: 3~ 230V		Mains: 1~ 230V Motor: 1~ 230V		P ₂		DN1	DN2	mm							
	mains A	motor A	A	kW	HP	H	h1	h2	L1	L2	m1	B	B2			
1MXSU 204/A-EMT	3,9	2,7	1MXSUM 204/A-EMM	4,1	0,55	0,75			1071		973					
1MXSU 205/A-EMT	4,7	3,3	1MXSUM 205/A-EMM	5	0,75	1	G 1 1/4	G 1 1/4	1095	32	997	304	225	123	190	190
1MXSU 206/A-EMT	5,4	3,8	1MXSUM 206/A-EMM	6	0,9	1,2			1119		1021					
1MXSU 404/A-EMT	5,4	3,8	1MXSUM 404/A-EMM	6	0,9	1,2	G 1 1/4	G 1 1/4	1071	32	973	304	225	123	190	190
1MXSU 405/A-EMT	6,4	4,5	1MXSUM 405/A-EMM	7	1,1	1,5			1095		997	304	225	123	190	190
1MXSU 803/A-EMT	6,4	4,5	1MXSUM 803/A-EMM	7	1,1	1,5	G 1 1/4	G 1 1/4	1095	32	997	304	225	123	190	190
1MXSU 804/A-EMT	9,4	6,6			1,5	2			1095		997					

Coverage chart



Characteristic and dimensions



Mains: 1~ 230V Motor: 3~ 230V	mains A	motor A	Mains: 1~ 230V Motor: 1~ 230V	A	P ₂		DN1	DN2	mm								
					kW	HP			H	h1	h2	L1	L2	m1	B	B2	
1MXV-B 25-204-EMT	5,4	4	1MXV-BM 25-204-EMM	5,8	0,75	1											
1MXV-B 25-205-EMT	5,4	4	1MXV-BM 25-205-EMM	5,8	0,75	1											
1MXV-B 25-206-EMT	7,1	5	1MXV-BM 25-206-EMM	7,4	1,1	1,5											
1MXV-B 25-207-EMT	7,1	5	1MXV-BM 25-207-EMM	7,4	1,1	1,5											
1MXV-B 25-208-EMT	10,8	7,5			1,5	2											
1MXV-B 25-210-EMT	10,8	7,5			1,5	2											
1MXV-B 32-404-EMT	7,1	5	1MXV-BM 32-404-EMM	7,4	1,1	1,5											
1MXV-B 32-405-EMT	7,1	5	1MXV-BM 32-405-EMM	7,4	1,1	1,5											
1MXV-B 32-406-EMT	10,8	7,5			1,5	2											
1MXV-B 32-407-EMT	10,8	7,5			1,5	2											
1MXV-B 32-408-EMT	13,2	9,15			2,2	3											
1MXV-B 32-410-EMT	13,2	9,15			2,2	3											
1MXV-B 40-804-EMT	10,8	7,5			1,5	2											
1MXV-B 40-805-EMT	13,2	9,15			2,2	3											
1MXV-B 40-806-EMT	13,2	9,15			2,2	3											



Execution

Constant pressure boosting sets with **EASYMAT** frequency converter made of two pumps, ball valve and non return valve on suction side, ball valve and pressure gauge on delivery side.

Suction and delivery manifolds in stainless steel AISI 304.

Suitable for installation of a 8-lt cylindrical pressure vessel on delivery side.

EASYMAT device:

Frequency converter installed directly on the pump delivery pipe and water cooled (patented).

Only three parameters to set at starting:

- Maximum motor current
- Working frequency
- Working pressure

Possibility to display:

- Pressure of the system
- Working frequency
- Absorbed current
- Alarms

Operation

According to the water consumption, one or more pumps starts, all at variable speed, to ensure the required water quantity at the set pressure.

CONSTANT PRESSURE MODE:

the system keeps the pressure constant when the quantity of water requested by the user changes.



FIXED SPEED MODE:

the system works at a fixed speed that user can choose according to his need.

Applications

For drawing water out of a well

As pressure boosting pump for central water systems with low pressure (follow local specifications if increasing network pressure)

Motors

2-pole induction motors, 50Hz, n=2900 rpm, suitable for operation with frequency converter

- Single-phase 230V +/-10%
- Three-phase 230V +/-10%

Class F insulation

IP 54 protection

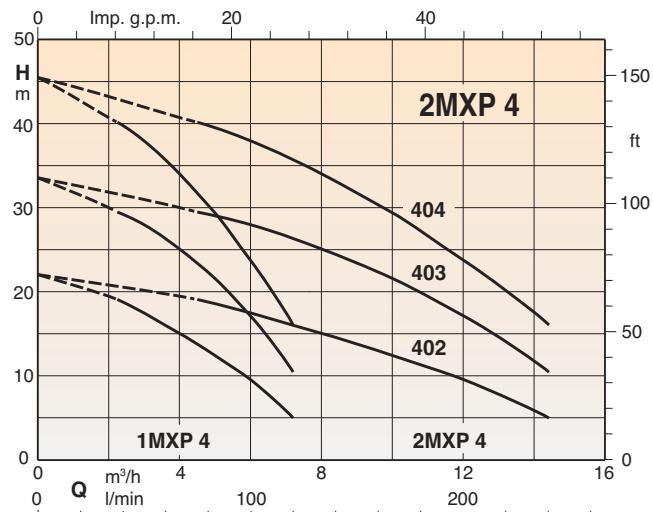
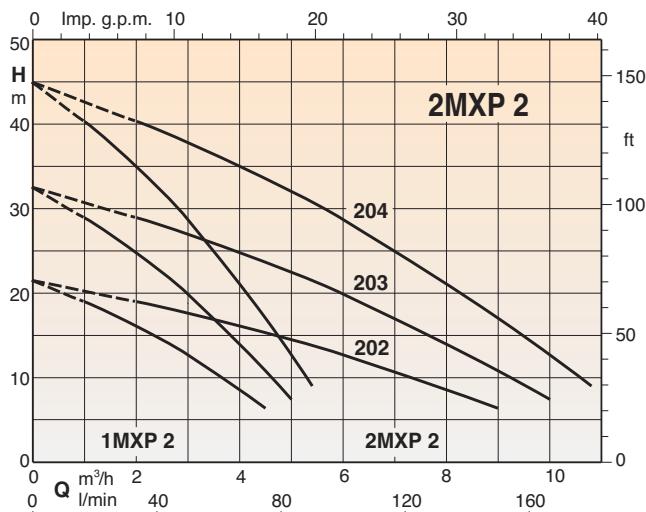
Execution according IEC 60034

Other voltages on demand

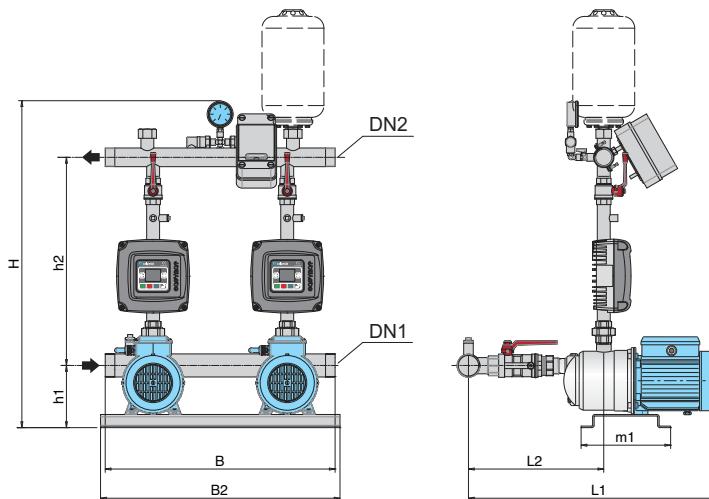
Pressure vessels (on demand)

Cylindrical with capacity 8 liters, membrane type, air precharged

Coverage chart

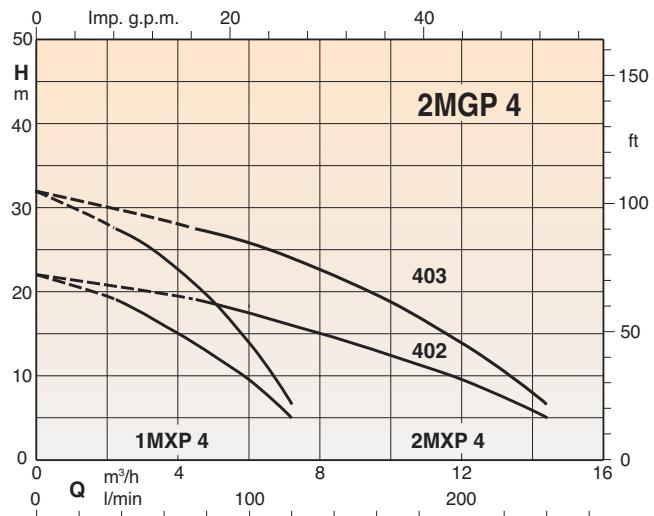
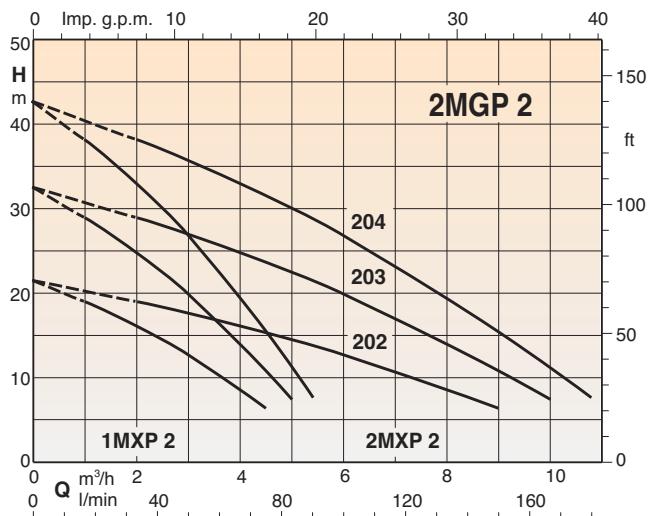


Characteristic and dimensions

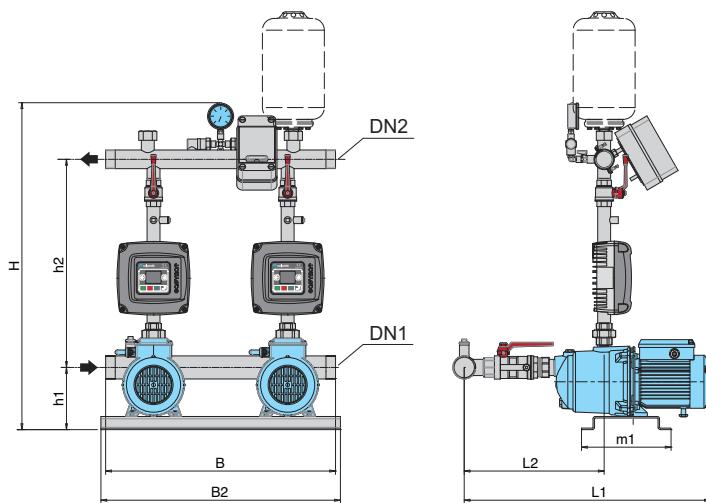


	Mains: 1~ 230V Motor: 3~ 230V		Mains: 1~ 230V Motor: 1~ 230V		P ₂		DN1	DN2	mm							
	mains A	motor A	A	kW	HP	H	h1	h2	L1	L2	m1	B	B2			
2MXP 202-EMT	2 x 2,1	2 x 1,7	2MXP 202-EMM	2 x 2,3	2 x 0,33	2 x 0,45			573							
2MXP 203-EMT	2 x 3,2	2 x 2,4	2MXP 203-EMM	2 x 3	2 x 0,45	2 x 0,6	G 2	G 1 1/2	841	150	510	573	326	240	600	625
2MXP 204/A-EMT	2 x 4	2 x 2,8	2MXP 204/A-EMM	2 x 4,2	2 x 0,55	2 x 0,75			602							
2MXP 402-EMT	2 x 3,2	2 x 2,4	2MXP 402-EMM	2 x 3	2 x 0,45	2 x 0,6			573							
2MXP 403/A-EMT	2 x 4	2 x 2,8	2MXP 403/A-EMM	2 x 4,2	2 x 0,55	2 x 0,75	G 2	G 1 1/2	841	150	510	602	326	240	600	625
2MXP 404/A-EMT	2 x 5	2 x 3,5	2MXP 404/A-EMM	2 x 5,4	2 x 0,75	2 x 1			602							

Coverage chart

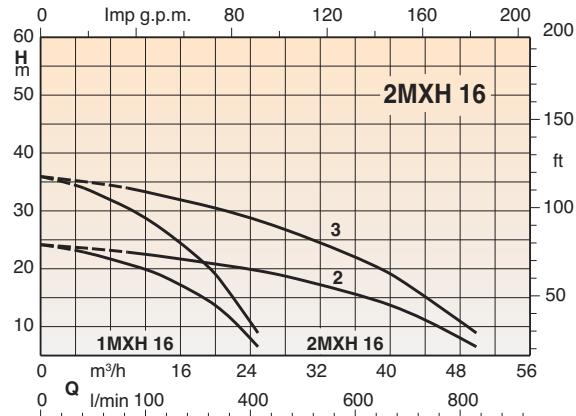
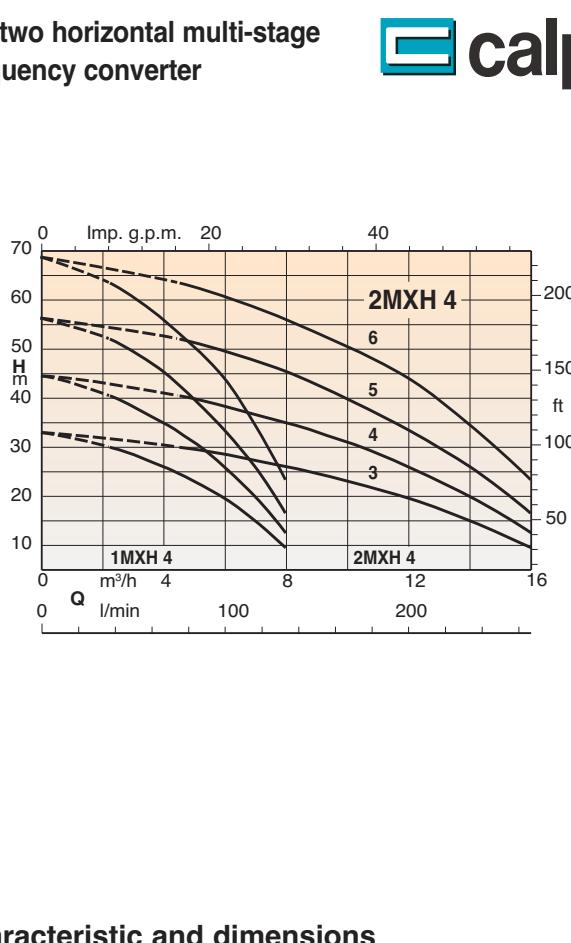
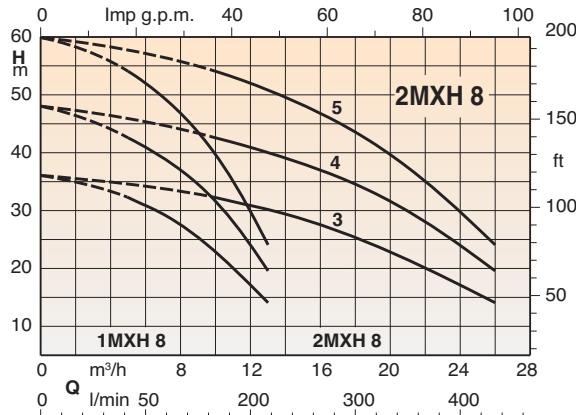
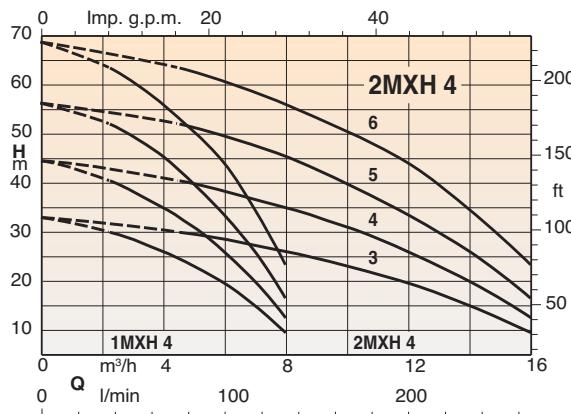
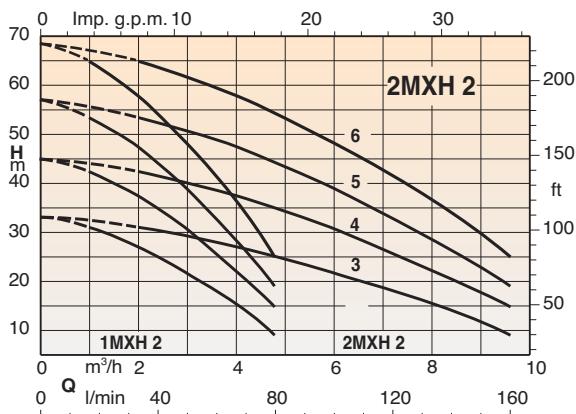


Characteristic and dimensions

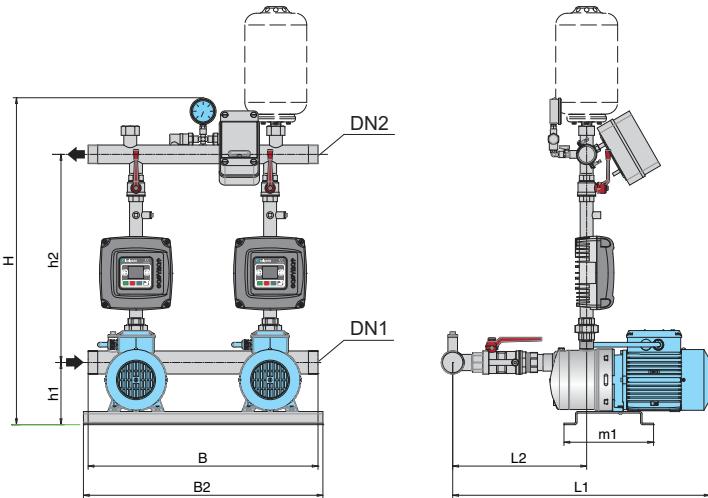


	Mains: 1~ 230V Motor: 3~ 230V		Mains: 1~ 230V Motor: 1~ 230V		P2		DN1	DN2	mm							
	mains A	motor A	A	kW	HP	H	h1	h2	L1	L2	m1	B	B2			
2MGP 202-EMT	2 x 2,1	2 x 1,7	2MGPM 202-EMM	2 x 2,3	2 x 0,33	2 x 0,45										
2MGP 203-EMT	2 x 3,2	2 x 2,4	2MGPM 203-EMM	2 x 3	2 x 0,45	2 x 0,6	G 2	G 1 1/2	825	150	494	573	326	240	600	625
2MGP 204-EMT	2 x 4	2 x 2,8	2MGPM 204-EMM	2 x 3,3	2 x 0,55	2 x 0,75										
2MGP 402-EMT	2 x 3,2	2 x 2,4	2MGPM 402-EMM	2 x 3	2 x 0,45	2 x 0,6	G 2	G 1 1/2	825	150	494	573	326	240	600	625
2MGP 403-EMT	2 x 4,3	2 x 3	2MGPM 403-EMM	2 x 3,5	2 x 0,55	2 x 0,75										

Coverage chart

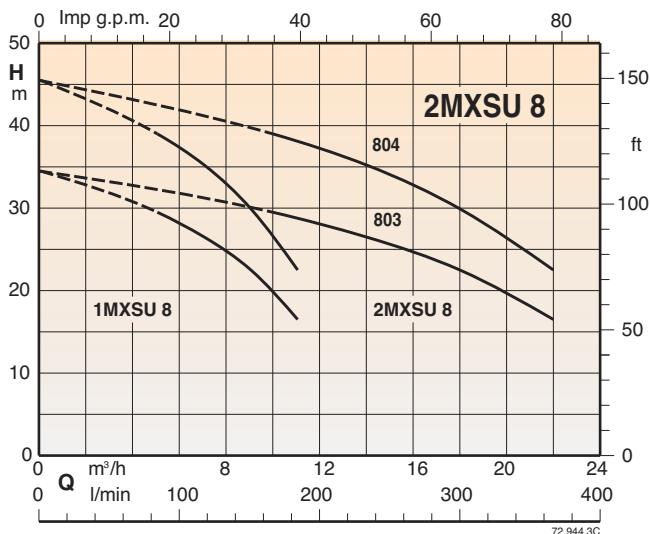
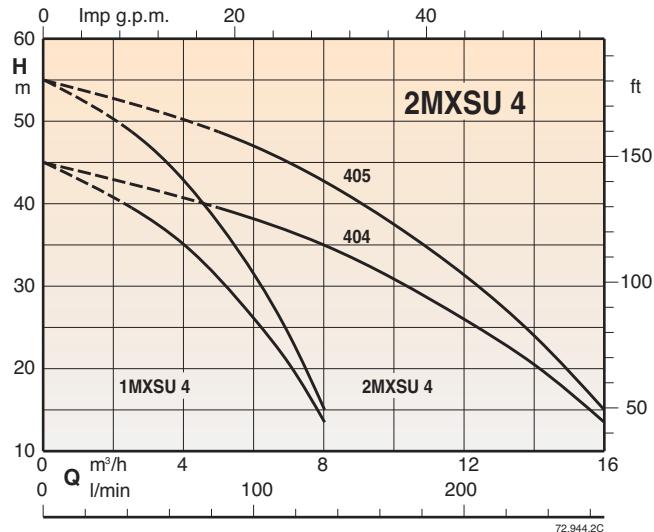
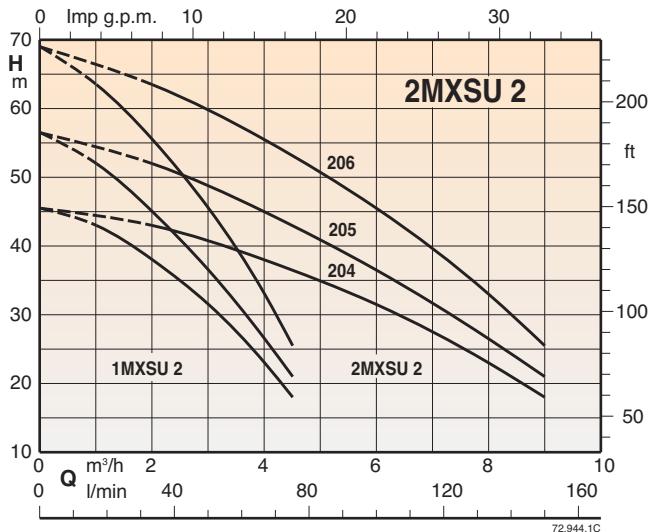


Characteristic and dimensions

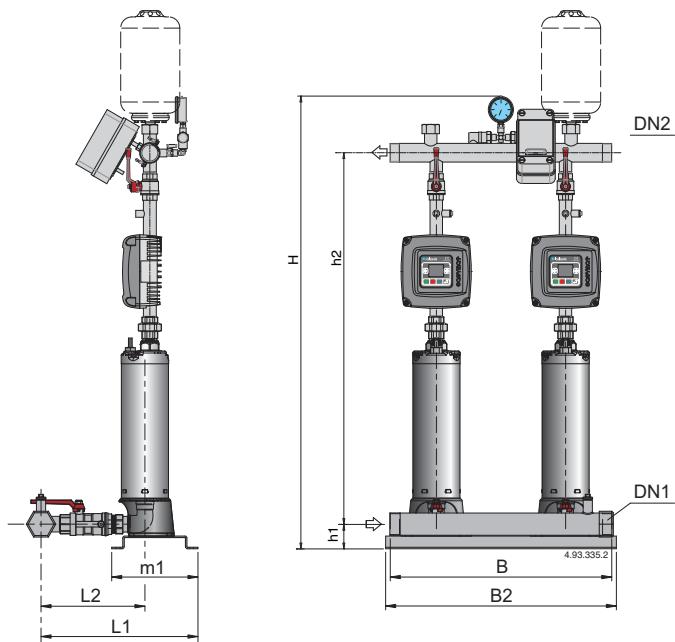


Mains: 1~ 230V Motor: 3~ 230V	mains		Motor: 1~ 230V		P ₂		DN1	DN2	mm							
	A	A	A		kW	HP			H	h1	h2	L1	L2	m1	B	B2
2MXH 203E-EMT	2 x 3,2	2 x 2,4	2MXHM 203E-EMM	2 x 3	2 x 0,45	2 x 0,6						563	326			
2MXH 204/A-EMT	2 x 4	2 x 2,8	2MXHM 204/A-EMM	2 x 4,2	2 x 0,55	2 x 0,75	G 2	G 1 1/2	848	161	506	613	350	240	600	625
2MXH 205/A-EMT	2 x 5	2 x 3,5	2MXHM 205/A-EMM	2 x 5,4	2 x 0,75	2 x 1						637	374			
2MXH 206/A-EMT	2 x 6,3	2 x 4,7	2MXHM 206/A-EMM	2 x 7,4	2 x 1,1	2 x 1,5						661	398			
2MXH 403/A-EMT	2 x 4	2 x 2,8	2MXHM 403/A-EMM	2 x 4,2	2 x 0,55	2 x 0,75						589	326			
2MXH 404/A-EMT	2 x 5	2 x 3,5	2MXHM 404/A-EMM	2 x 5,4	2 x 0,75	2 x 1	G 2	G 1 1/2	848	161	506	613	350	240	600	625
2MXH 405/A-EMT	2 x 6,7	2 x 4,7	2MXHM 405/A-EMM	2 x 7,4	2 x 1,1	2 x 1,5						637	374			
2MXH 406-EMT	2 x 8	2 x 6,4			2 x 1,5	2 x 2						732	398			
2MXH 803-EMT	2 x 7,1	2 x 5	2MXHM 803-EMM	2 x 7,4	2 x 1,1	2 x 1,5						727	393			
2MXH 804-EMT	2 x 8,6	2 x 6,4			2 x 1,5	2 x 2	G 2 1/2	G 2	854	161	512	757	423	240	600	625
2MXH 805-EMT	2 x 10,7	2 x 7,5			2 x 1,8	2 x 2,5						787	453			
2MXH 1602-EMT	2 x 9,1	2 x 6,4			2 x 1,5	2 x 2	G 3	G 2 1/2	882	151	551	829	481	240	600	625
2MXH 1603-EMT	2 x 10,7	2 x 7,5			2 x 1,8	2 x 2,5						829	481			

Coverage chart

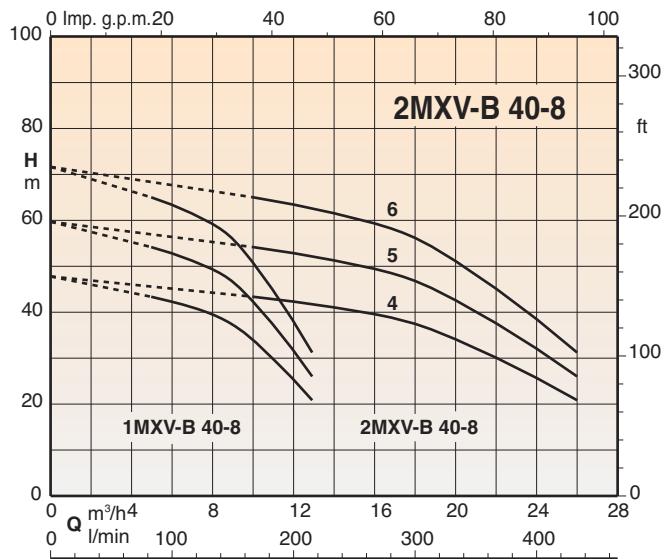
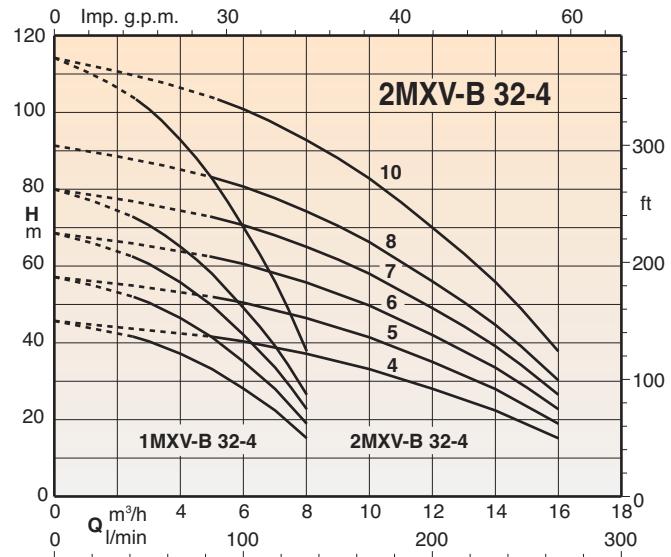
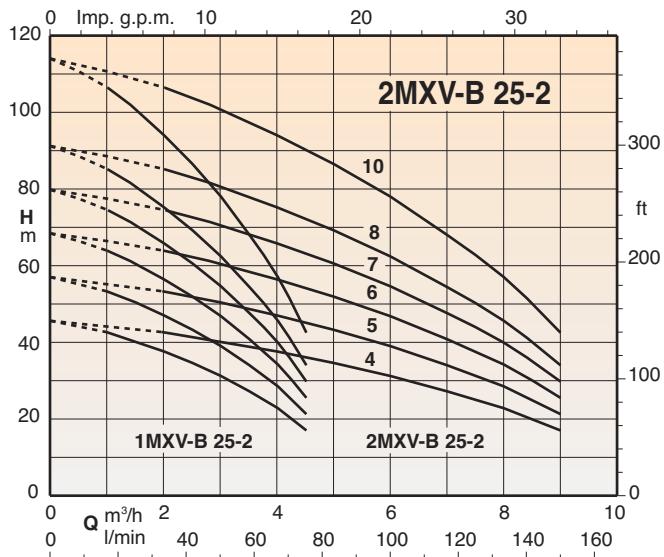


Characteristic and dimensions

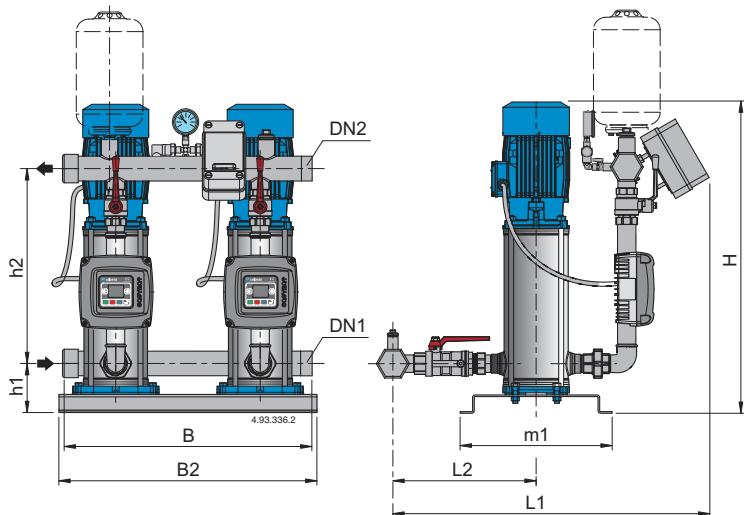


Mains: 1~ 230V Motor: 3~ 230V	mains A	motor A	Mains: 1~ 230V Motor: 1~ 230V	P ₂			DN1	DN2	mm							
				A	kW	HP			H	h1	h2	L1	L2	m1	B	B2
2MXSU 204/A-EMT	2 x 3,9	2 x 2,7	2MXSUM 204/A-EMM	2 x 4,1	2 x 0,55	2 x 0,75			1205		958					
2MXSU 205/A-EMT	2 x 4,7	2 x 3,3	2MXSUM 205/A-EMM	2 x 5	2 x 0,75	2 x 1	G 2	G 2	1229	66	982	417	277	240	600	625
2MXSU 206/A-EMT	2 x 5,4	2 x 3,8	2MXSUM 206/A-EMM	2 x 6	2 x 0,9	2 x 1,2			1253		1006					
2MXSU 404/A-EMT	2 x 5,4	2 x 3,8	2MXSUM 404/A-EMM	2 x 6	2 x 0,9	2 x 1,2	G 2	G 2	1205	66	958	417	277	240	600	625
2MXSU 405/A-EMT	2 x 6,4	2 x 4,5	2MXSUM 405/A-EMM	2 x 7	2 x 1,1	2 x 1,5	G 2	G 2	1229	66	982	417	277	240	600	625
2MXSU 803/A-EMT	2 x 6,4	2 x 4,5	2MXSUM 803/A-EMM	2 x 7	2 x 1,1	2 x 1,5			1229		982					
2MXSU 804/A-EMT	2 x 9,4	2 x 6,6			2 x 1,5	2 x 2			1229	66	982	417	277	240	600	625

Coverage chart



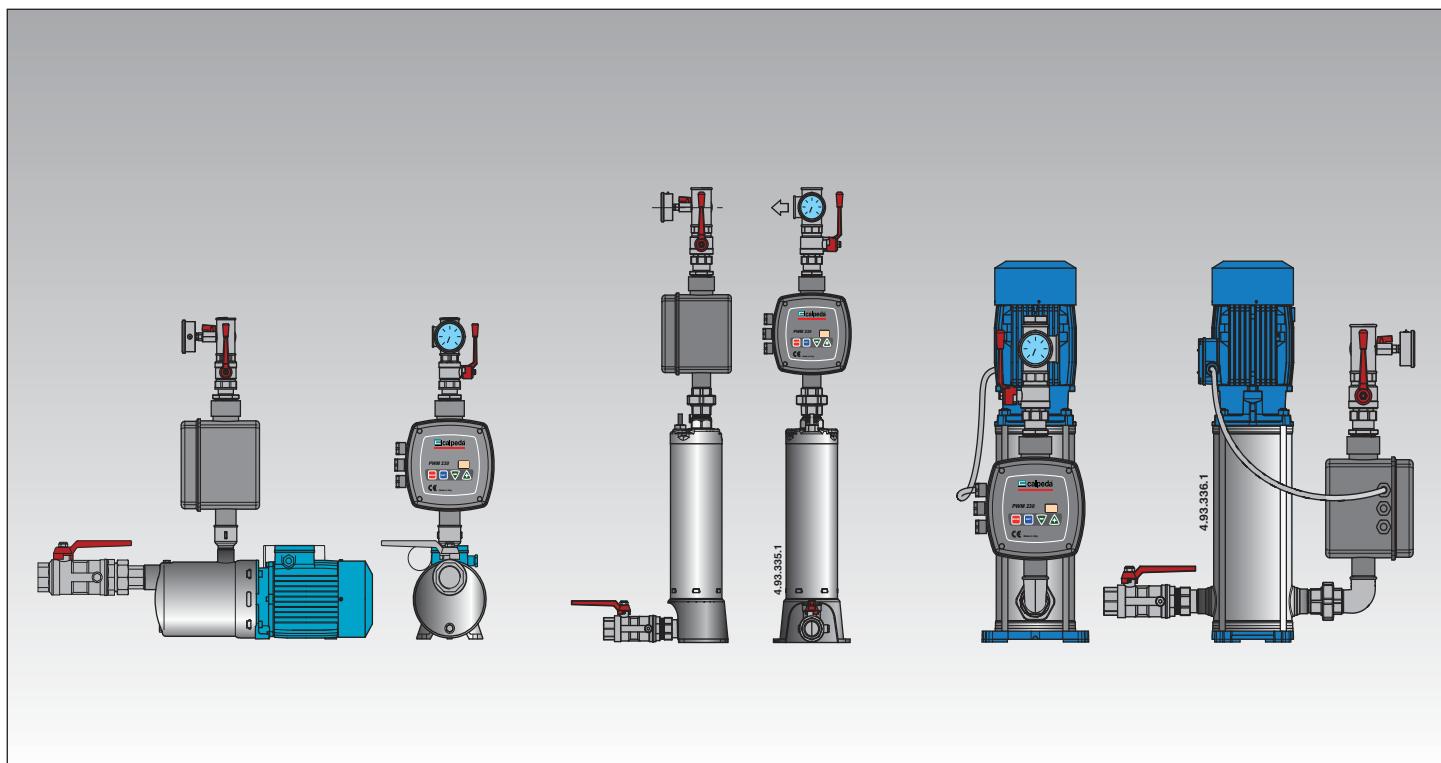
Characteristic and dimensions



Mains: 1~ 230V Motor: 3~ 230V	mains A	motor A	Mains: 1~ 230V Motor: 1~ 230V	A	P ₂		DN1	DN2	mm								
					kW	HP			H	h1	h2	L1	L2	m1	B	B2	
2MXV-B 25-204-EMT	2x5,4	2x 4	2MXV-BM 25-204-EMM	2x 5,8	2x 0,75	2 x 1											
2MXV-B 25-205-EMT	2x5,4	2x 4	2MXV-BM 25-205-EMM	2x 5,8	2x 0,75	2 x 1											
2MXV-B 25-206-EMT	2x7,1	2x 5	2MXV-BM 25-206-EMM	2x 7,4	2x 1,1	2 x 1,5	G 1 1/2	G 1 1/2	727	119	461	501	315	365	600	625	
2MXV-B 25-207-EMT	2x7,1	2x 5	2MXV-BM 25-207-EMM	2x 7,4	2x 1,1	2 x 1,5											
2MXV-B 25-208-EMT	2x10,8	2x 7,5			2x 1,5	2 x 2											
2MXV-B 25-210-EMT	2x10,8	2x 7,5			2x 1,5	2 x 2											
2MXV-B 32-404-EMT	2x7,1	2x 5	2MXV-BM 32-404-EMM	2x 7,4	2x 1,1	2 x 1,5											
2MXV-B 32-405-EMT	2x7,1	2x 5	2MXV-BM 32-405-EMM	2x 7,4	2x 1,1	2 x 1,5											
2MXV-B 32-406-EMT	2x10,8	2x 7,5			2x 1,5	2 x 2	G 2	G 2	743	119	477	544	340	365	600	625	
2MXV-B 32-407-EMT	2x10,8	2x 7,5			2x 1,5	2 x 2											
2MXV-B 32-408-EMT	2x13,2	2x 9,15			2x 2,2	2 x 3											
2MXV-B 32-410-EMT	2x13,2	2x 9,15			2x 2,2	2 x 3											
2MXV-B 40-804-EMT	2x10,8	2x 7,5			2x 1,5	2 x 2	G 2 1/2	G 2 1/2	765	124	495	598	388	365	600	625	
2MXV-B 40-805-EMT	2x13,2	2x 9,15			2x 2,2	2 x 3											
2MXV-B 40-806-EMT	2x13,2	2x 9,15			2x 2,2	2 x 3											

1MXH.VT, 1MXSU.VT, 1MXVB.VT

Constant pressure boosting sets with Variomat frequency converter



Execution

Constant pressure boosting sets with one pump and Variomat frequency converter

Ball valve and non return valve on suction side, ball valve and pressure gauge on delivery side

Suitable for installation of a 8-lt cylindrical pressure vessel on delivery side

Variomat device:

Frequency converter installed directly on the pump delivery pipe and water cooled

Only two parameters to set at starting:

- Maximum motor current
- Working pressure

Possibility to display:

- Pressure of the system
- Working frequency
- Absorbed current
- Alarms

Operation

According to the water consumption, the pump at variable speed ensures the required water quantity at the set pressure

Applications

For drawing water out of a well

As pressure boosting pump for central water systems with low pressure (follow local specifications if increasing network pressure)

Motors

2-pole induction motors, 50Hz, n=2900 rpm, suitable for operation with frequency converter

Threephase 230V +/-10%

400V +/-10%

Class F insulation

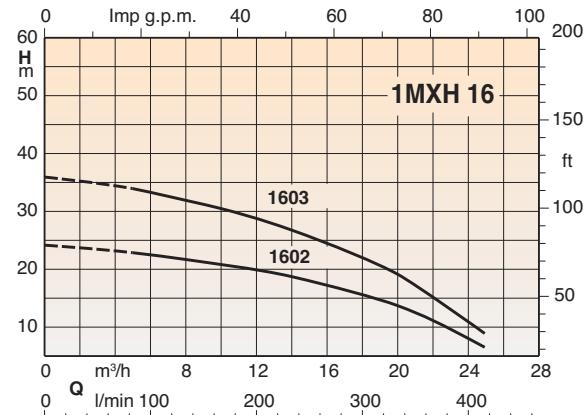
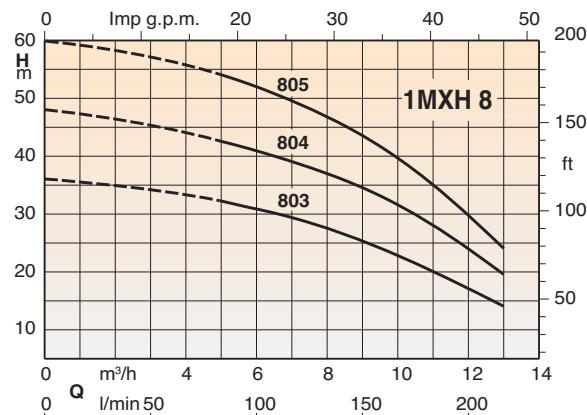
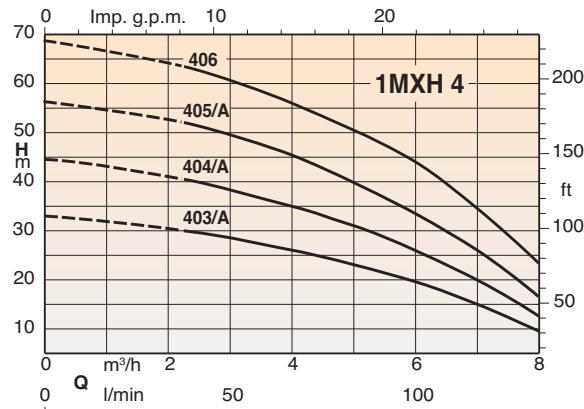
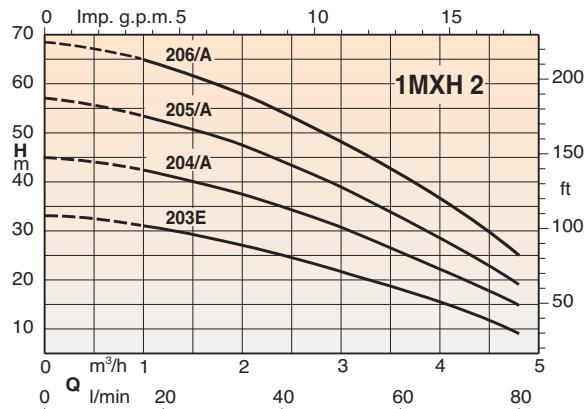
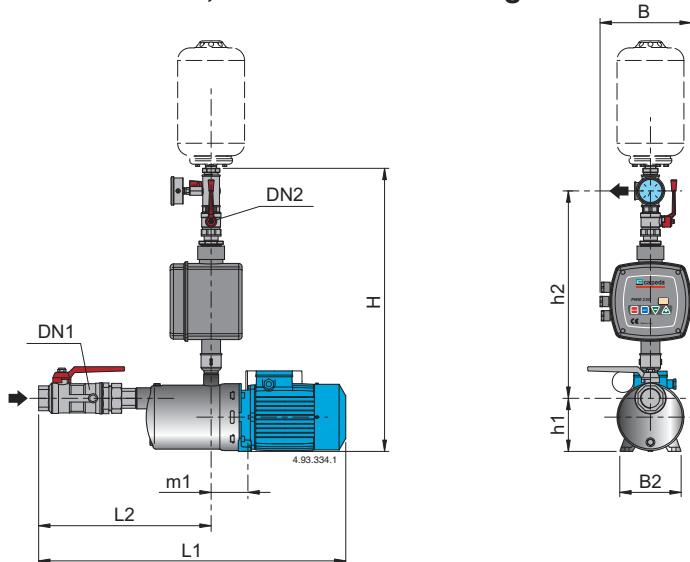
IP 54 protection

Execution according IEC 60034

Other voltages on demand

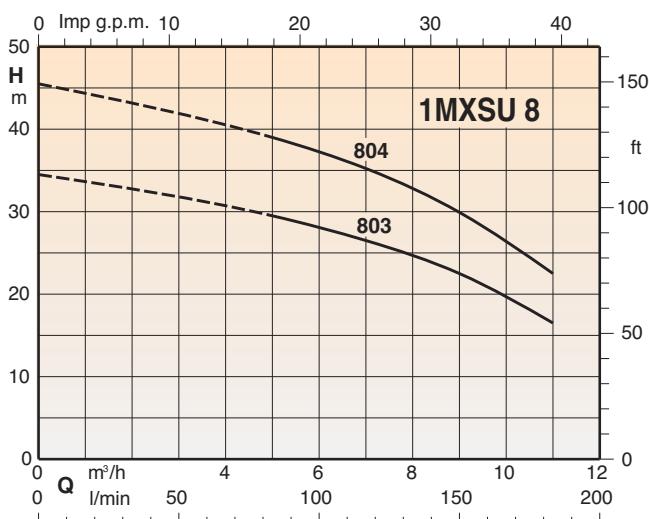
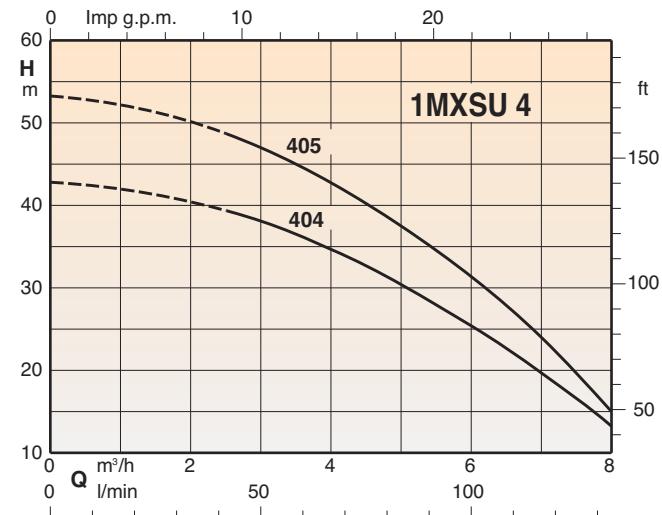
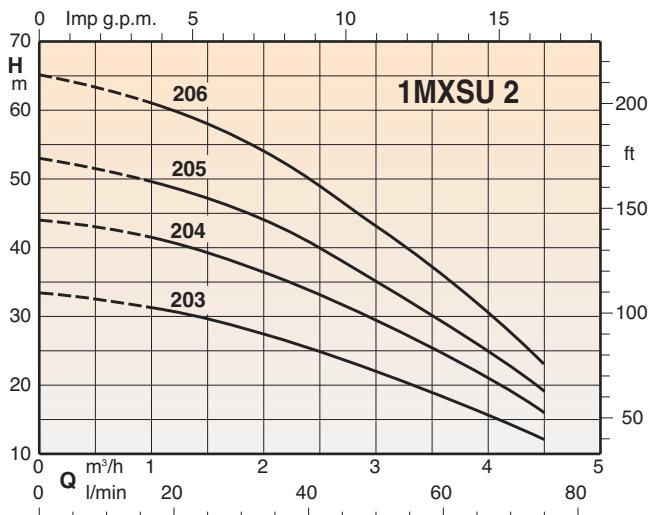
Pressure vessels (on demand)

Cylindrical with capacity 8 liters, membrane type, air precharged

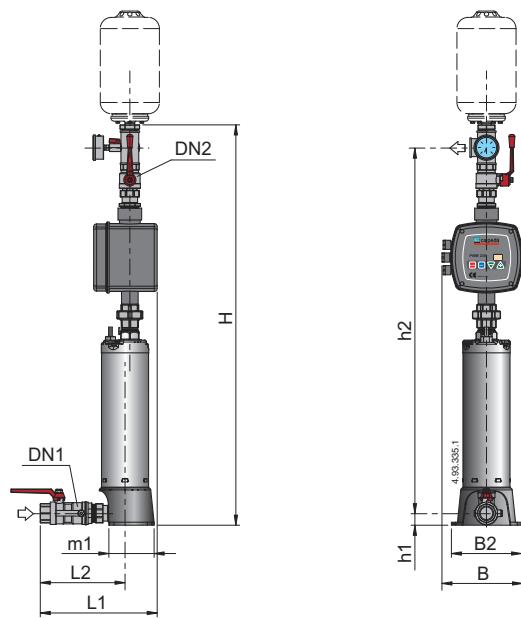
Coverage chart

Characteristic, dimensions and weights


	A	kW	HP	DN1	DN2	mm							
						H	h1	h2	L1	L2	m1	B	B2
1MXH 203E-VTT	1,4	0,45	0,6	G 1 1/4	G 1	680	127	495	545	305	28	210	210
1MXH 204/A-VTT	1,6	0,55	0,75						565	330			
1MXH 205/A-VTT	2	0,75	1						590	355			
1MXH 206/A-VTT	2,7	1,1	1,5						675	375			
1MXH 403/A-VTT	1,6	0,55	0,75	G 1 1/4	G 1	680	127	495	545	305	28	210	210
1MXH 404/A-VTT	2	0,75	1						565	330			
1MXH 405/A-VTT	2,7	1,1	1,5						615	375			
1MXH 406-VTT	3,7	1,5	2						675	375			
1MXH 803-VTT	2,9	1,1	1,5	G 1 1/2	G 1	680	127	495	675	350	31	210	210
1MXH 804-VTT	3,7	1,5	2						705	380			
1MXH 805-VTT	4,3	1,8	2,5						735	410			
1MXH 1602-VTT	3,7	1,5	2	G 2	G 1 1/2	725	117	545	746	410	31	210	210
1MXH 1603-VTT	4,3	1,8	2,5						746	410			

Coverage chart

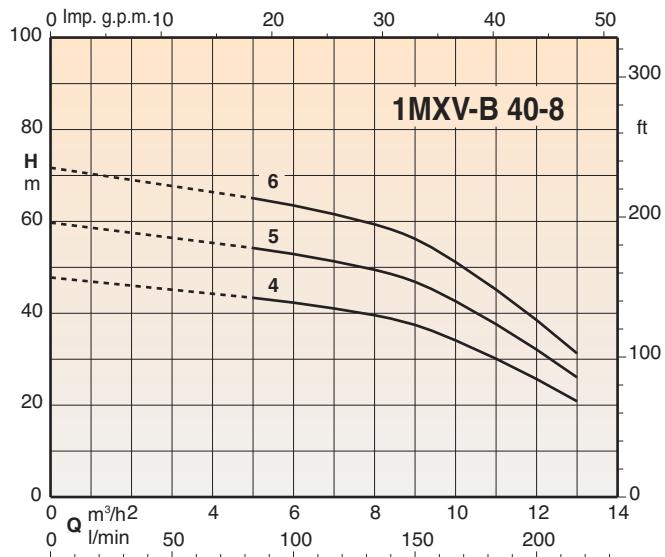
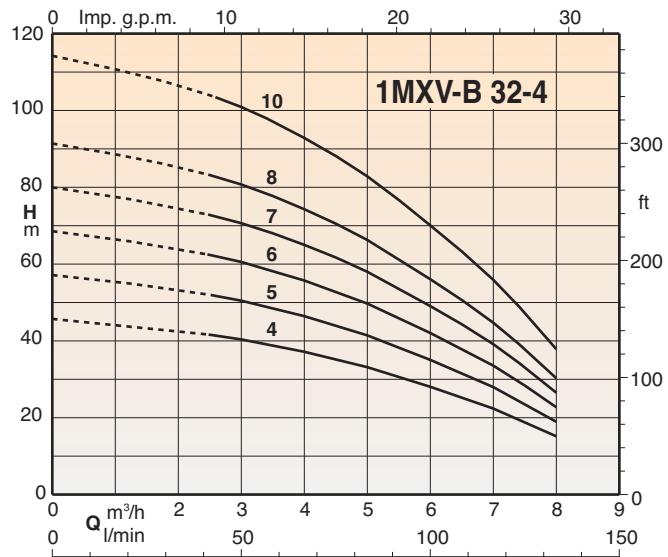
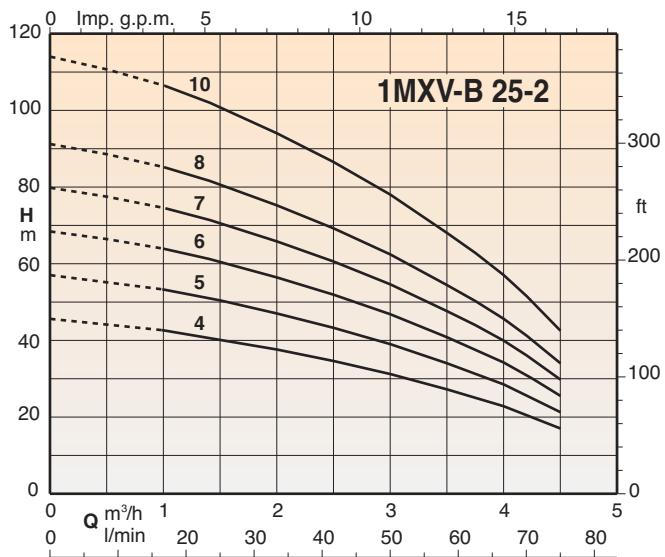


Characteristic, dimensions and weights

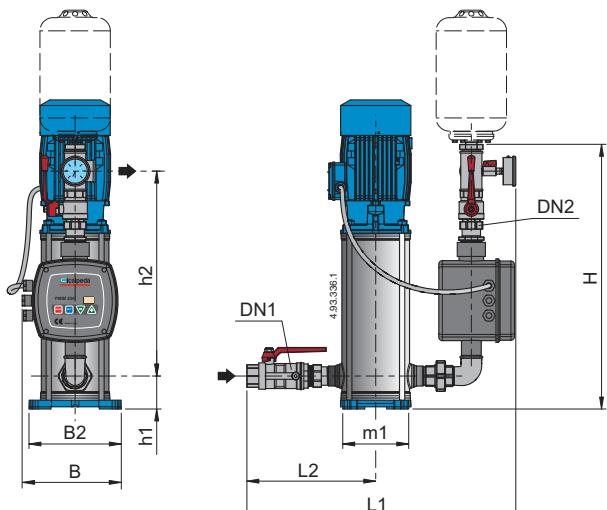


Mains: 3~ 400V Motor: 3~ 400V	A	P ₂		DN1	DN2	mm							
		kW	HP			H	h1	h2	L1	L2	m1	B	B2
1MXSU 204-VTT	1,6	0,55	0,75			1070		1020					
1MXSU 205-VTT	1,9	0,75	1	G 1 1/4	G 1 1/4	1095	32	1045	325	285	234	210	190
1MXSU 206-VTT	2,2	0,9	1,2			1120		1070					
1MXSU 404-VTT	2,2	0,9	1,2	G 1 1/4	G 1 1/4	1070	32	1020	325	285	234	210	190
1MXSU 405-VTT	2,6	1,1	1,5			1095		1045					
1MXSU 803-VTT	2,6	1,1	1,5	G 1 1/4	G 1 1/4	1095	32	1045	325	285	234	210	190
1MXSU 804-VTT	3,8	1,5	2			1095		1045					

Coverage chart



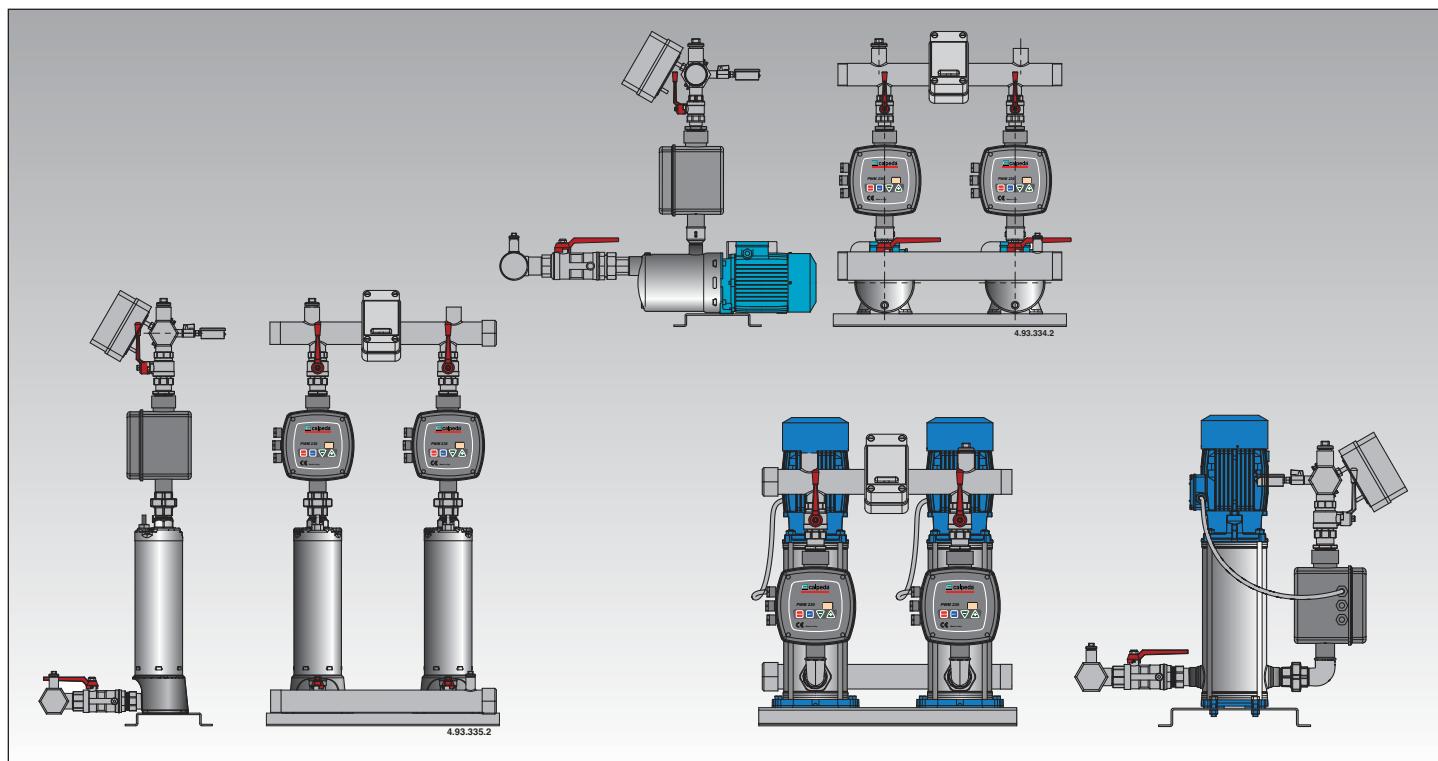
Characteristic, dimensions and weights



Mains: 3~ 400V Motor: 3~ 400V	P ₂			DN1	DN2	mm							
	A	kW	HP			H	h1	h2	L1	L2	m1	B	B2
1MXV-B 25-204-VTT	2,3	0,75	1	G 1	G 1	605	75	475	565	265	150	225	210
1MXV-B 25-205-VTT	2,3	0,75	1										
1MXV-B 25-206-VTT	2,9	1,1	1,5										
1MXV-B 25-207-VTT	2,9	1,1	1,5										
1MXV-B 25-208-VTT	4,3	1,5	2										
1MXV-B 25-210-VTT	4,3	1,5	2										
1MXV-B 32-404-VTT	2,9	1,1	1,5	G 1 1/4	G 1 1/4	600	75	465	610	295	150	225	210
1MXV-B 32-405-VTT	2,9	1,1	1,5										
1MXV-B 32-406-VTT	4,3	1,5	2										
1MXV-B 32-407-VTT	4,3	1,5	2										
1MXV-B 32-408-VTT	5,3	2,2	3										
1MXV-B 32-410-VTT	5,3	2,2	3										
1MXV-B 40-804-VTT	4,3	1,5	2	G 1 1/2	G 1 1/2	670	80	525	675	345	150	225	210
1MXV-B 40-805-VTT	5,3	2,2	3										
1MXV-B 40-806-VTT	5,3	2,2	3										

2MXH.VT, 2MXSU.VT, 2MXVB.VT

Constant pressure boosting sets with Variomat frequency converter



Execution

Constant pressure boosting sets with Variomat frequency converter made of two pumps, ball valve and non return valve on suction side, ball valve and pressure gauge on delivery side

Suction and delivery manifolds in stainless steel AISI 304

Suitable for installation of two 8-lt cylindrical pressure vessels on delivery side

Variomat device:

Frequency converter installed directly on the pump delivery pipe and water cooled

Only two parameters to set at starting:

- Maximum motor current
- Working pressure

Possibility to display:

- Pressure of the system
- Working frequency
- Absorbed current
- Alarms

Operation

According to the water consumption, one or more pumps starts, all at variable speed, to ensure the required water quantity at the set pressure

Applications

For drawing water out of a well

As pressure boosting pump for central water systems with low pressure (follow local specifications if increasing network pressure)

Motors

2-pole induction motors, 50Hz, n=2900 rpm, suitable for operation with frequency converter

Threephase 230V +/-10%

400V +/-10%

Class F insulation

IP 54 protection

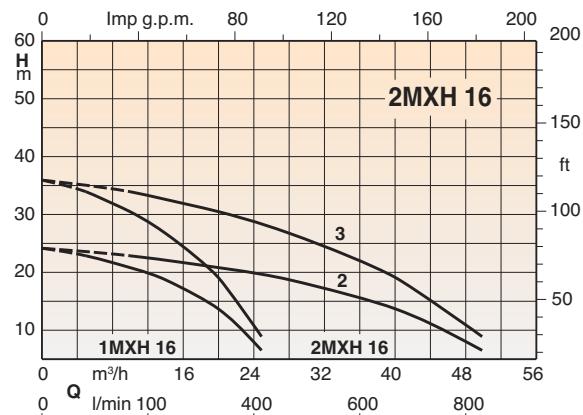
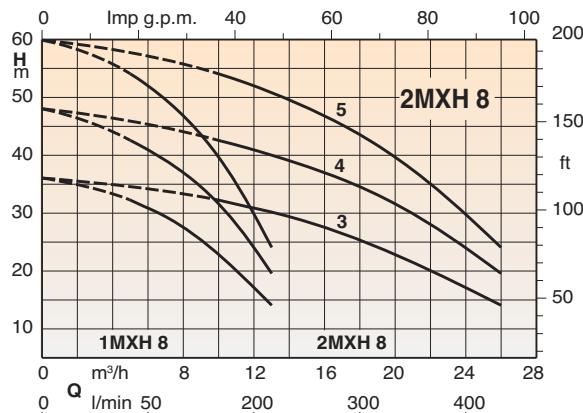
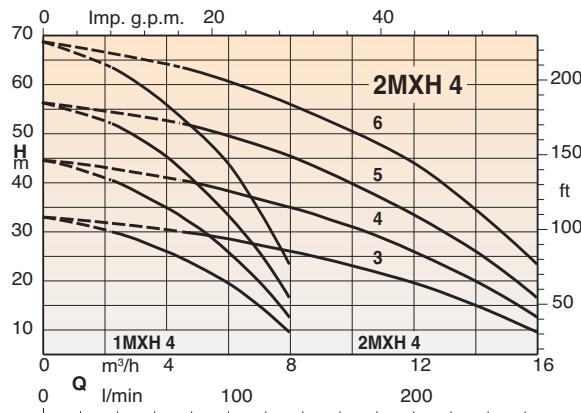
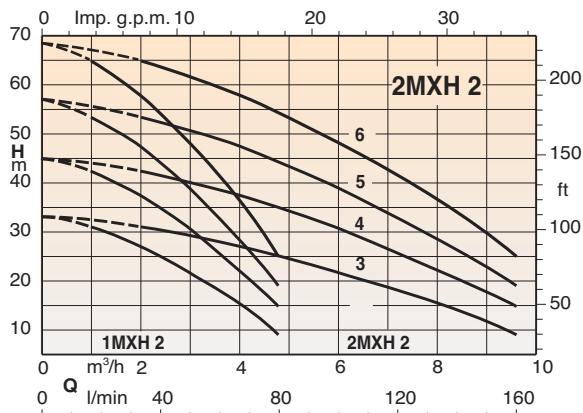
Execution according IEC 60034

Other voltages on demand

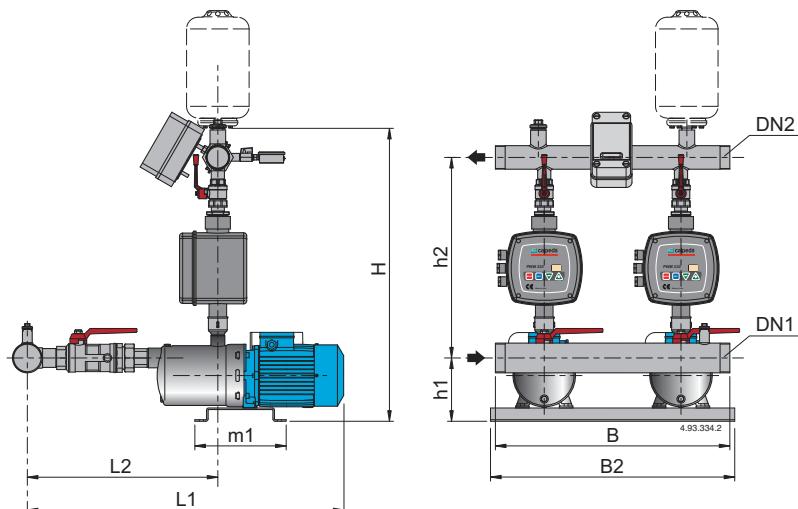
Pressure vessels (on demand)

Cylindrical with capacity 8 liters, membrane type, air precharged

Coverage chart

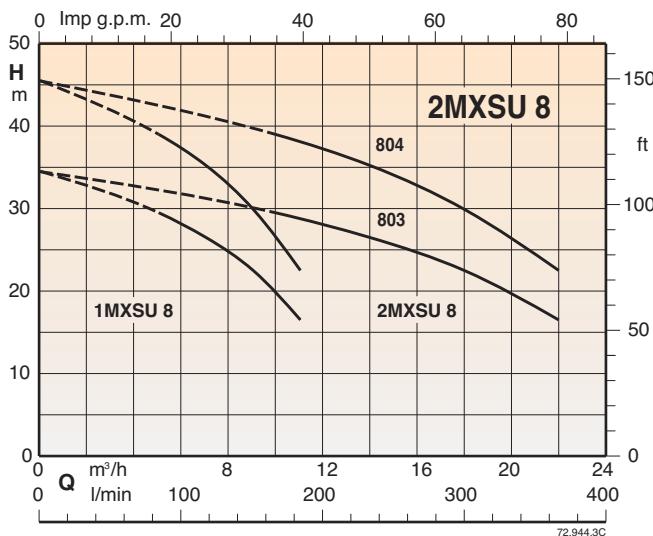
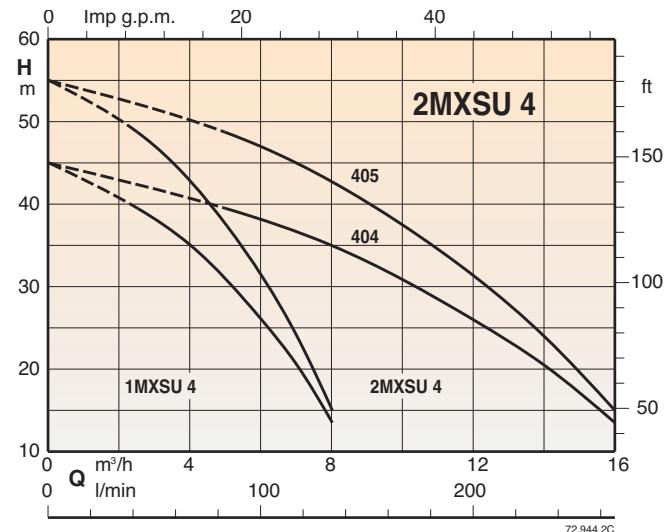
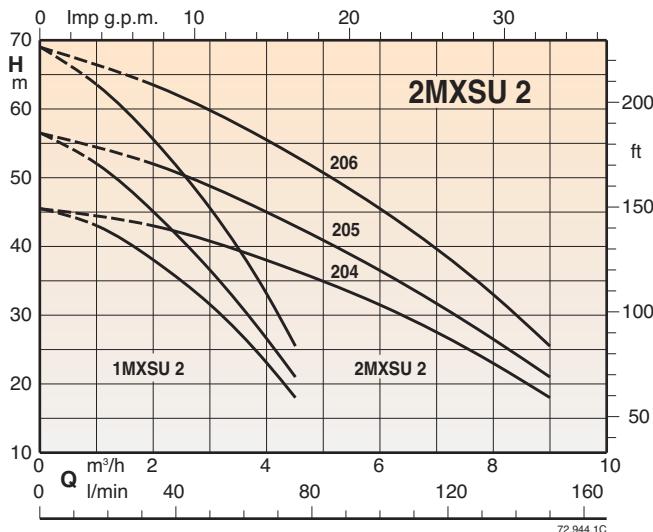


Characteristic, dimensions and weights

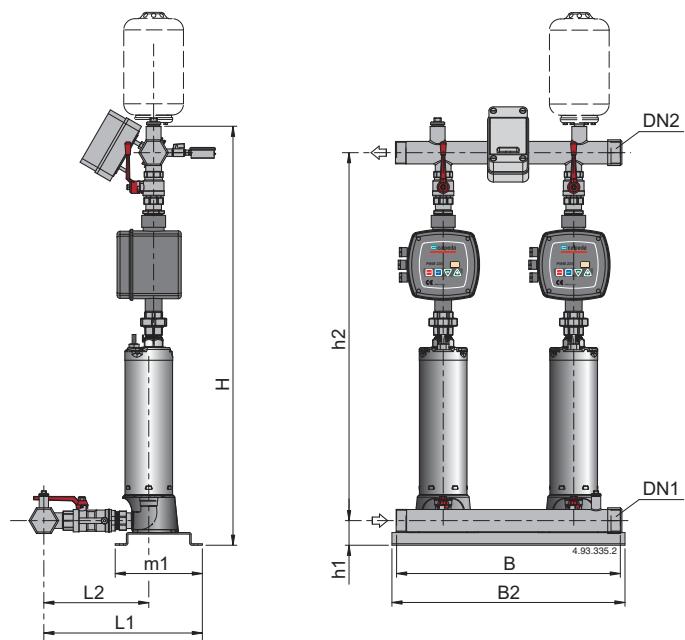


	Mains: 3~ 400V Motor: 3~ 400V			P ₂		DN1	DN2	mm					
	A	kW	HP	H	h1	h2	L1	L2	m1	B	B2		
2MXH 203E-VTT	2 x 1,4	2 x 0,45	2 x 0,6	G 2	G 1 1/2	735	162	507	570	330	234	600	625
2MXH 204/A-VTT	2 x 1,6	2 x 0,55	2 x 0,75						620	355			
2MXH 205/A-VTT	2 x 2	2 x 0,75	2 x 1						645	380			
2MXH 206/A-VTT	2 x 2,7	2 x 1,1	2 x 1,5						665	405			
2MXH 403/A-VTT	2 x 1,6	2 x 0,55	2 x 0,75	G 2	G 1 1/2	735	162	507	595	330	234	600	625
2MXH 404/A-VTT	2 x 2	2 x 0,75	2 x 1						620	355			
2MXH 405/A-VTT	2 x 2,7	2 x 1,1	2 x 1,5						645	380			
2MXH 406-VTT	2 x 3,7	2 x 1,5	2 x 2						725	405			
2MXH 803-VTT	2 x 2,9	2 x 1,1	2 x 1,5	G 2 1/2	G 2	745	162	513	750	430	234	600	625
2MXH 804-VTT	2 x 3,7	2 x 1,5	2 x 2						780	460			
2MXH 805-VTT	2 x 4,3	2 x 1,8	2 x 2,5						810	490			
2MXH 1602-VTT	2 x 3,7	2 x 1,5	2 x 2	G 3	G 2 1/2	800	152	569	830	495	234	600	625
2MXH 1603-VTT	2 x 4,3	2 x 1,8	2 x 2,5						830	495			

Coverage chart

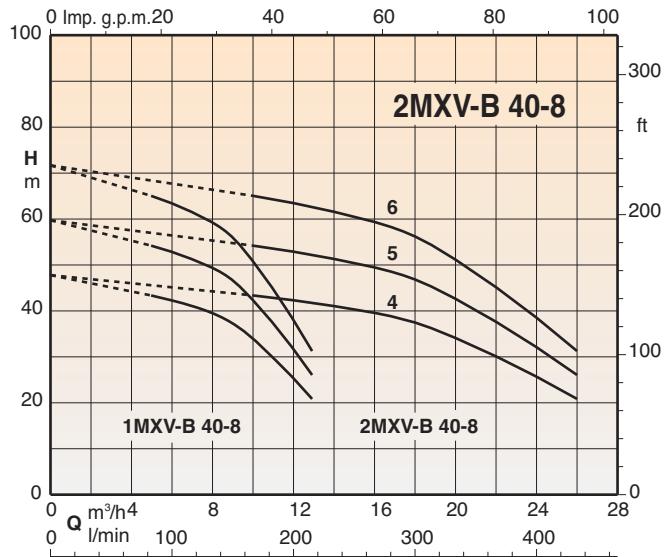
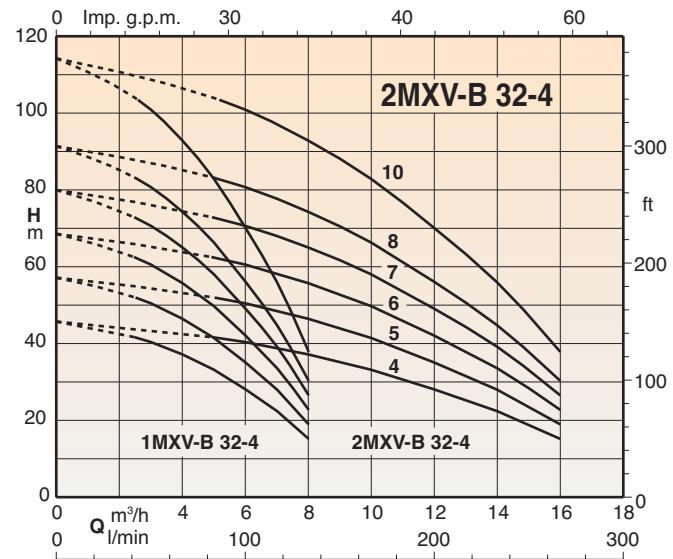
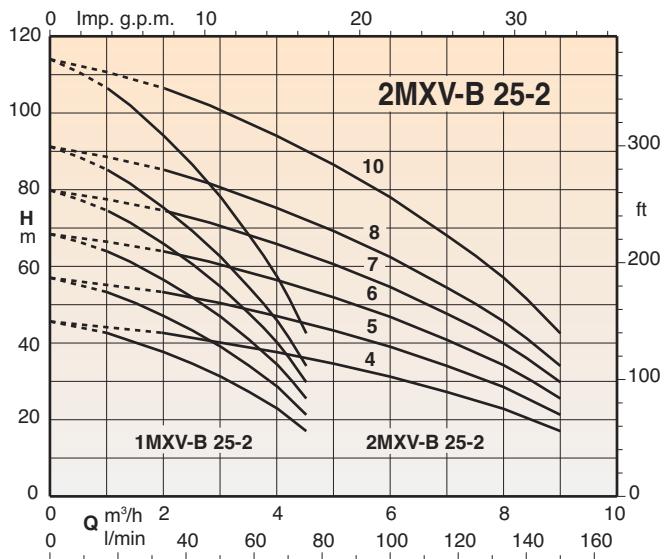


Characteristic, dimensions and weights

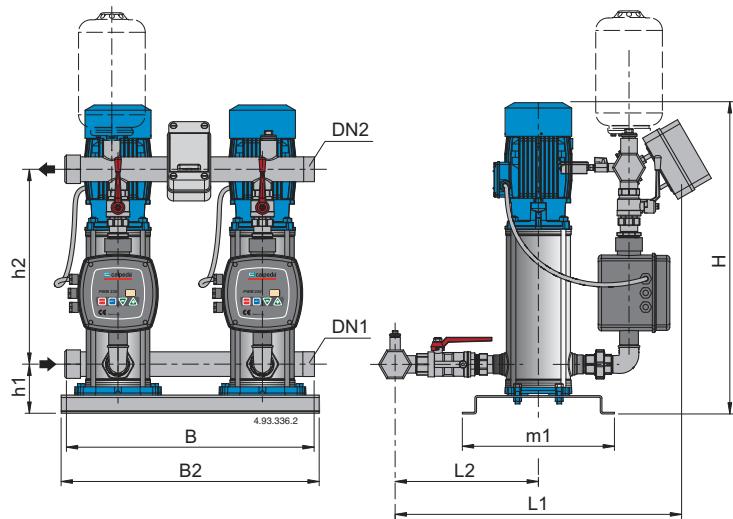


Mains: 3~ 400V Motor: 3~ 400V	P ₂			DN1	DN2	mm							
	A	kW	HP			H	h1	h2	L1	L2	m1	B	B2
2MXSU 204-VTT	2 x 1,6	2 x 0,55	2 x 0,75			1125		990					
2MXSU 205-VTT	2 x 1,9	2 x 0,75	2 x 1	G 2	G 2	1150	66	1010	630	300	234	600	625
2MXSU 206-VTT	2 x 2,2	2 x 0,9	2 x 1,2			1170		1035					
2MXSU 404-VTT	2 x 2,2	2 x 0,9	2 x 1,2	G 2	G 2	1125	66	990	630	300	234	600	625
2MXSU 405-VTT	2 x 2,6	2 x 1,1	2 x 1,5			1150		1010					
2MXSU 803-VTT	2 x 2,6	2 x 1,1	2 x 1,5	G 2	G 2	1150	66	1010	630	300	234	600	625
2MXSU 804-VTT	2 x 3,8	2 x 1,5	2 x 2			1150		1010					

Coverage chart



Characteristic, dimensions and weights

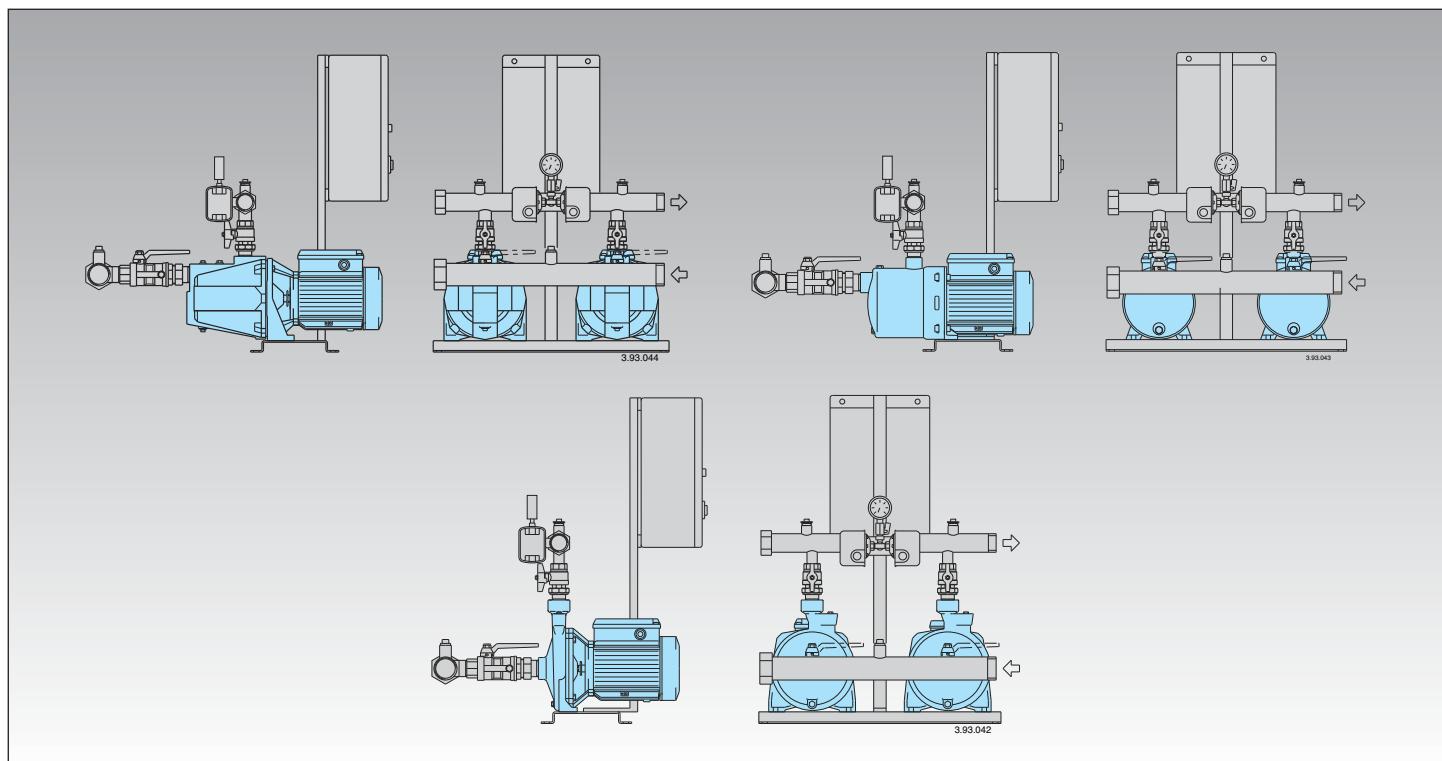


	A	P ₂		DN1	DN2	mm							
		kW	HP			H	h1	h2	L1	L2	m1	B	B2
2MXV-B 25-204-VTT	2 x 2,3	2 x 0,75	2 x 1										
2MXV-B 25-205-VTT	2 x 2,3	2 x 0,75	2 x 1										
2MXV-B 25-206-VTT	2 x 2,9	2 x 1,1	2 x 1,5										
2MXV-B 25-207-VTT	2 x 2,9	2 x 1,1	2 x 1,5										
2MXV-B 25-208-VTT	2 x 4,3	2 x 1,5	2 x 2										
2MXV-B 25-210-VTT	2 x 4,3	2 x 1,5	2 x 2										
2MXV-B 32-404-VTT	2 x 2,9	2 x 1,1	2 x 1,5										
2MXV-B 32-405-VTT	2 x 2,9	2 x 1,1	2 x 1,5										
2MXV-B 32-406-VTT	2 x 4,3	2 x 1,5	2 x 2	G 2	G 2	850	119	473	610	345	365	600	625
2MXV-B 32-407-VTT	2 x 4,3	2 x 1,5	2 x 2										
2MXV-B 32-408-VTT	2 x 5,3	2 x 2,2	2 x 3										
2MXV-B 32-410-VTT	2 x 5,3	2 x 2,2	2 x 3										
2MXV-B 40-804-VTT	2 x 4,3	2 x 1,5	2 x 2										
2MXV-B 40-805-VTT	2 x 5,3	2 x 2,2	2 x 3	G 2 1/2	G 2 1/2	850	124	550	675	425	365	600	625
2MXV-B 40-806-VTT	2 x 5,3	2 x 2,2	2 x 3										

2 MX..., 2 NM, 2 NMD, 2 NG..

Pressure boosting sets for domestic use with two electric pumps

Fixed speed pump or Variable speed pump (frequency converter)



Construction

Automatic pressure boosting plant consisting of two pumps complete with ball, non return valve on the suction side and ball valves on the discharge side.

Suction and delivery manifolds are in AISI 304 stainless steel.

Connections are located on the delivery manifold for the installation of two 20 litres cylindrical vessels.

Electrical control boards:

- with microprocessor for fixed speed pump units (see page 386).
- with frequency converter for variable speed pump units (see page 387).

The unit includes one pressure gauge and two adjustable differential pressure switches.

Operation

BS 2F Fixed speed pump

Depending on the reduction of the pressure in the system, the pressure switches determine the starting up of the pumps in sequence and the microprocessor alternates the starts.

BS1V1F Pumps at variable speed with one frequency converter

According to the water consumption, one or more pumps start, one at variable speed and the others at fixed speed, to grant the water quantity required at the set pressure.

BS2V Pumps at variable speed with two frequency converter

Depending on water consumption, one or more pumps are activated, all at variable speed, in order to guarantee the quantity of water required at the set pressure.

Applications

For drawing water out a well.

As pressure boosting pump to increase water pressure when needed (follow local rules).

Motors

2-pole induction motors, 50 Hz, n = 2900 rpm.

- Three-phase 230/400V ± 10% up to 3 kW, suitable for operation with frequency converter;
400/690V ± 10% for 4 kW, suitable for operation with frequency converter;
- Single-phase 230 V ± 10%, with thermal protector.

Insulation class F.

Protection IP 54.

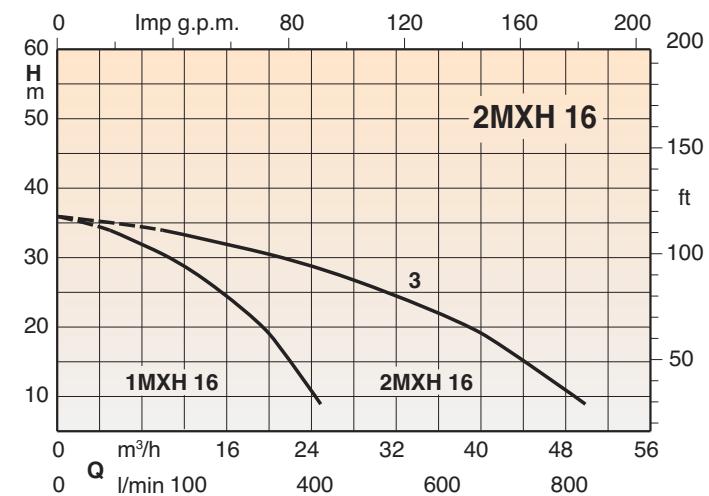
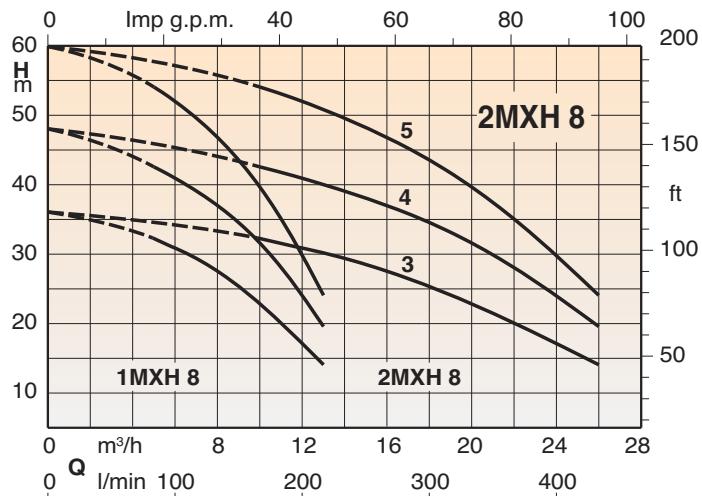
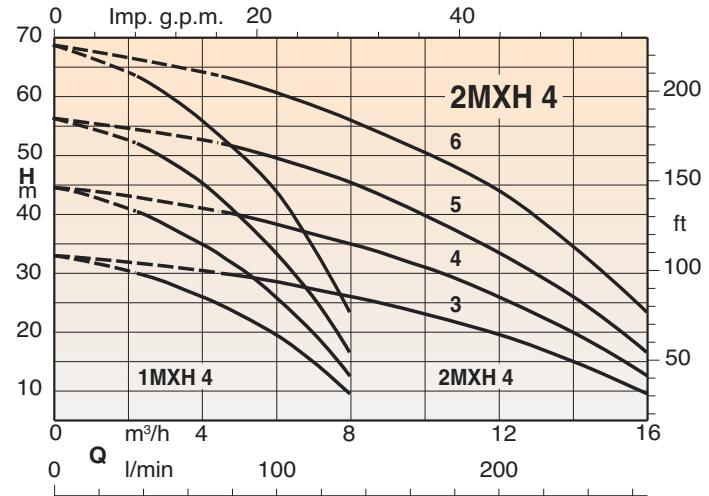
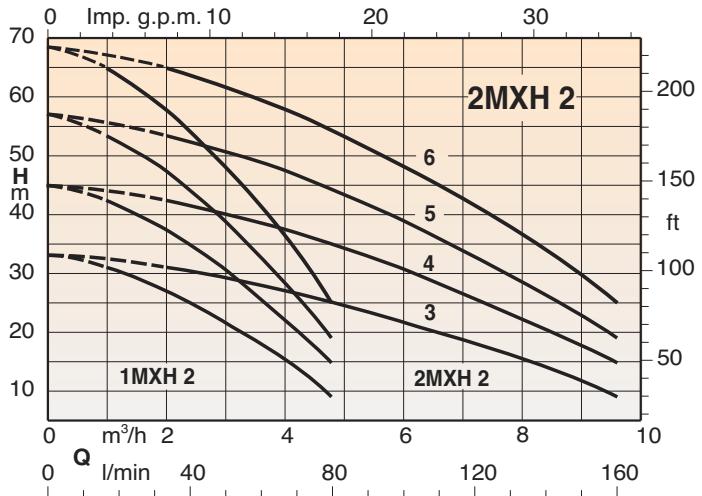
Constructed in accordance with: IEC 60034.

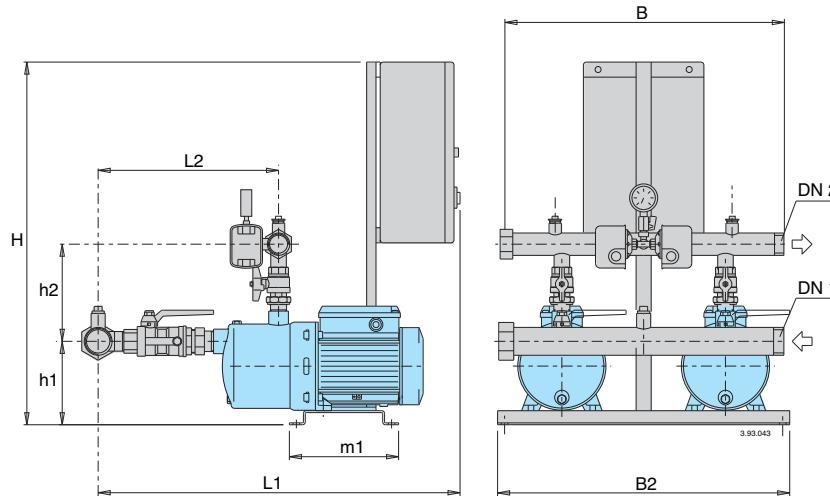
Other voltages and frequencies on request.

Vessels (on request)

Cylindrical with capacity 20 litres, membrane type, air precharged.

Coverage chart



Characteristic, dimensions and weights

BS2F BSM2F

Mains: 400V 3~ Motor: 400V 3~	Mains: 230V 1~ Motor: 230V 1~	Motor		Q max* l/min	Pres. switch setting i	Manifolds		mm							Weight kg	Vessel Mem. litre	Vessel litre	
		kW	HP			DN1	DN2	H	h1	h2	L1	L2	m1	B2	B			
BS2F 2MXH 203E	BSM2F 2MXHM 203E	0,45+0,45	0,6+0,6	140	1,8÷3,0	1,4÷2,6	G 2	G 11/2	840	162	202	773	335			42	24x2	100
BS2F 2MXH 204/A	BSM2F 2MXHM 204/A	0,55+0,55	0,75+0,75	130	2,8÷4,0	2,4÷3,6	G 2	G 11/2	840	162	202	796	358			47	24x2	100
BS2F 2MXH 205/A	BSM2F 2MXHM 205/A	0,75+0,75	1+1	130	3,5÷5,0	3,0÷4,5	G 2	G 11/2	840	162	202	820	382			50	24x2	100
BS2F 2MXH 206/A	BSM2F 2MXHM 206	1,1+1,1	1,5+1,5	130	4,5÷6,0	4,0÷5,5	G 2	G 11/2	840	162	202	845	406			54	24x2	100
BS2F 2MXH 403/A	BSM2F 2MXHM 403/A	0,55+0,55	0,75+0,75	240	1,8÷3,0	1,4÷2,6	G 2	G 11/2	840	162	202	773	335			46	24x2	100
BS2F 2MXH 404/A	BSM2F 2MXHM 404/A	0,75+0,75	1+1	220	2,8÷4,0	2,4÷3,6	G 2	G 11/2	840	162	202	796	358			49	60	100
BS2F 2MXH 405/A	BSM2F 2MXHM 405/A	1,1+1,1	1,5+1,5	220	3,5÷5,0	3,0÷4,5	G 2	G 11/2	840	162	202	820	382			53	80	200
BS2F 2MXH 406/E	BSM2F 2MXHM 406	1,5+1,5	2+2	220	4,5÷6,0	4,0÷5,5	G 2	G 11/2	840	162	202	845	406			57	100	300
BS2F 2MXH 803	BSM2F 2MXHM 803	1,1+1,1	1,5+1,5	430	1,8÷3,0	1,4÷2,6	G 21/2	G 2	840	162	208	866	428			61	100	300
BS2F 2MXH 804	BSM2F 2MXHM 804	1,5+1,5	2+2	400	2,8÷4,0	2,4÷3,6	G 21/2	G 2	840	162	208	896	458			66	200	300
BS2F 2MXH 805		1,8+1,8	2,5+2,5	400	3,5÷5,0	3,0÷4,5	G 21/2	G 2	840	162	208	926	488			68	200	500
BS2F 2MXH 1603		1,8+1,8	2,5+2,5	760	1,8÷3,0	1,4÷2,6	G 3	G 21/2	1140	151	298	970	496			80	300	500

* Maximum pumps flow at minimum set pressure of 2nd pressure switch.

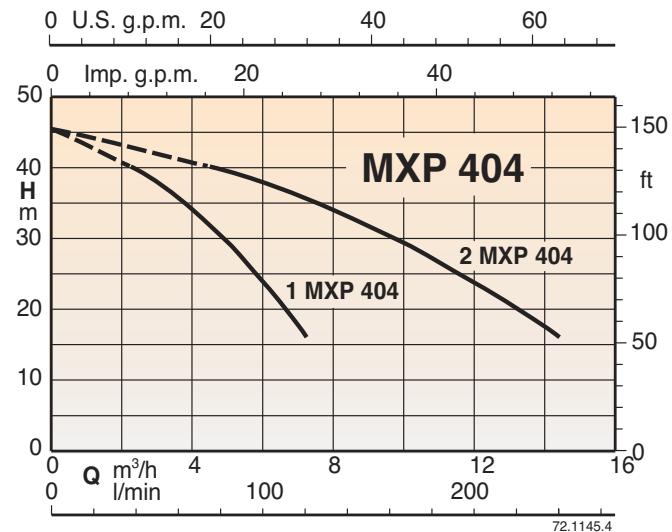
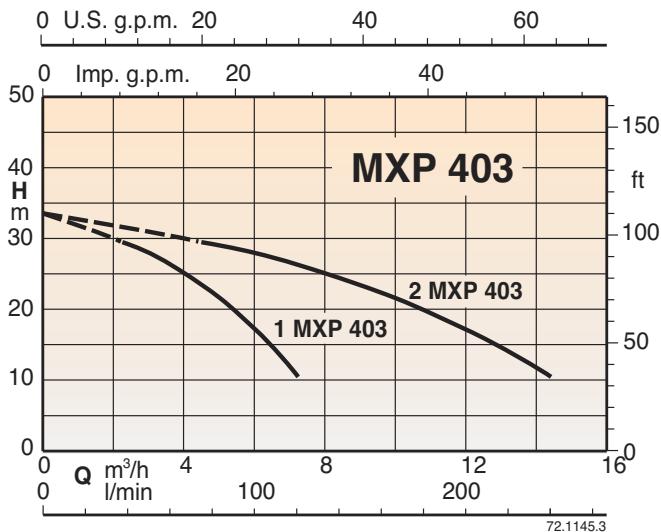
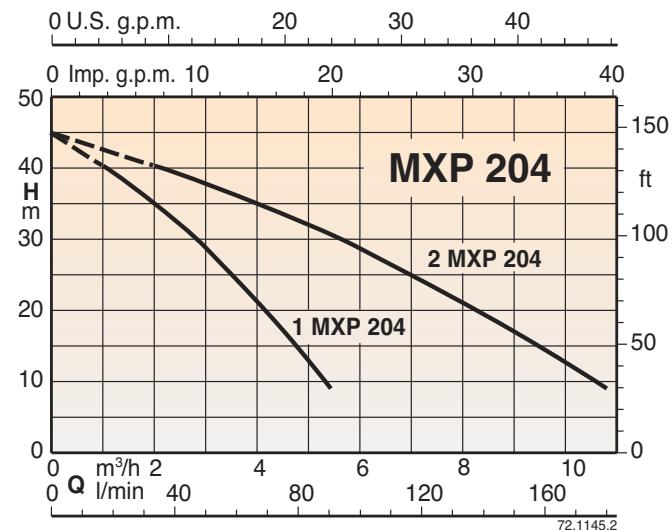
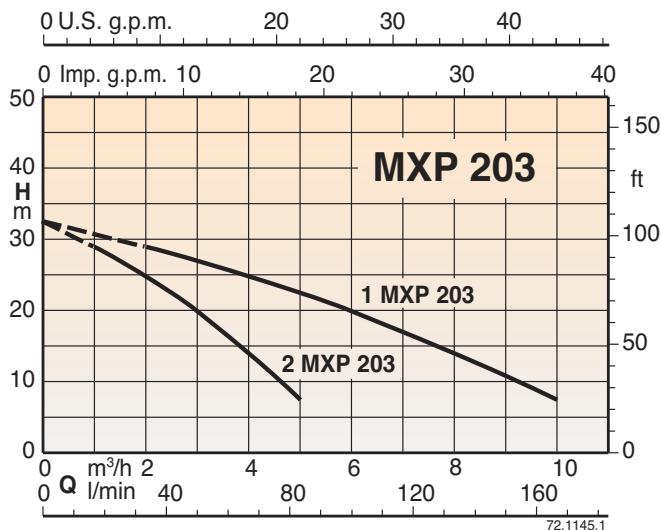
BS1V1F BSM1V1F

Mains: 400V 3~ Motor: 400V 3~	Mains: 230V 1~ Motor: 230V 3~ and 230V 1~	Motor		Manifolds		mm							Weight kg	Vessel Membrane litre		
		kW	HP	DN1	DN2	H	h1	h2	L1	L2	m1	B2	B			
BS1V1F 2MXH 203E	BSM1V1F 2MXH 203E	0,45+0,45	0,6+0,6	G 2	G 11/2	1100	162	202	773	335				42	24x2	
BS1V1F 2MXH 204/A	BSM1V1F 2MXH 204/A	0,55+0,55	0,75+0,75	G 2	G 11/2	1100	162	202	796	358				47	24x2	
BS1V1F 2MXH 205/A	BSM1V1F 2MXH 205/A	0,75+0,75	1+1	G 2	G 11/2	1100	162	202	820	382				50	24x2	
BS1V1F 2MXH 206/A	BSM1V1F 2MXH 206	1,1+1,1	1,5+1,5	G 2	G 11/2	1100	162	202	845	406				54	24x2	
BS1V1F 2MXH 403/A	BSM1V1F 2MXH 403/A	0,55+0,55	0,75+0,75	G 2	G 11/2	1100	162	202	773	335				46	24x2	
BS1V1F 2MXH 404/A	BSM1V1F 2MXH 404/A	0,75+0,75	1+1	G 2	G 11/2	1100	162	202	796	358				49	24x2	
BS1V1F 2MXH 405/A	BSM1V1F 2MXH 405	1,1+1,1	1,5+1,5	G 2	G 11/2	1100	162	202	820	382				53	24x2	
BS1V1F 2MXH 406/E	BSM1V1F 2MXH 406	1,5+1,5	2+2	G 2	G 11/2	1100	162	202	845	406				57	24x2	
BS1V1F 2MXH 803	BSM1V1F 2MXH 803	1,1+1,1	1,5+1,5	G 21/2	G 2	1100	162	208	866	428				61	24x2	
BS1V1F 2MXH 804	BSM1V1F 2MXH 804	1,5+1,5	2+2	G 21/2	G 2	1100	162	208	896	458				66	24x2	
BS1V1F 2MXH 805		1,8+1,8	2,5+2,5	G 21/2	G 2	1100	162	208	926	488				68	24x2	
BS1V1F 2MXH 1603		1,8+1,8	2,5+2,5	G 3	G 21/2	1100	151	298	970	496				80	24x2	

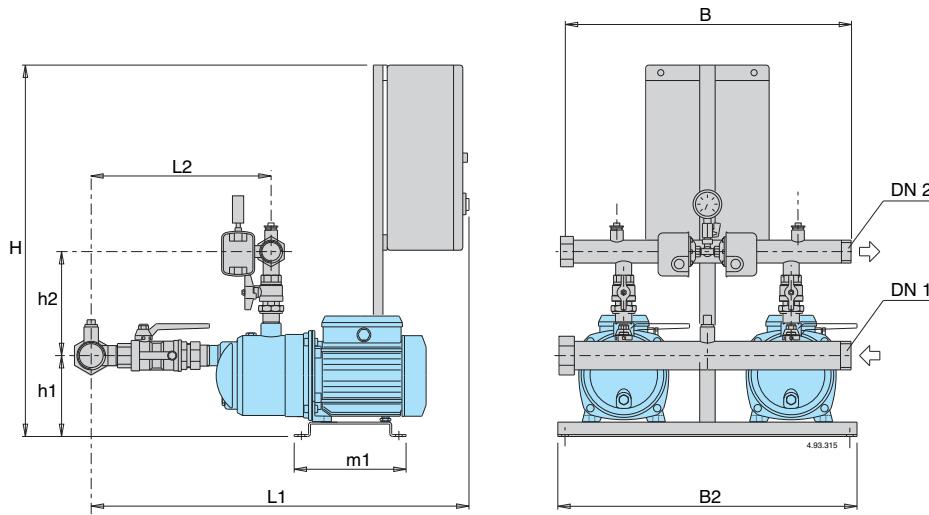
BS2V BSM2V

Mains: 400V 3~ Motor: 400V 3~	Mains: 230V 1~ Motor: 230V 3~	Motor		Manifolds		mm							Weight kg	Vessel Membrane litre		
		kW	HP	DN1	DN2	H	h1	h2	L1	L2	m1	B2	B			
BS2V 2MXH 203E	BSM2V 2MXH 203E	0,45+0,45	0,6+0,6	G 2	G 11/2	1100	162	202	773	335				42	24x2	
BS2V 2MXH 204/A	BSM2V 2MXH 204/A	0,55+0,55	0,75+0,75	G 2	G 11/2	1100	162	202	796	358				47	24x2	
BS2V 2MXH 205/A	BSM2V 2MXH 205/A	0,75+0,75	1+1	G 2	G 11/2	1100	162	202	820	382				50	24x2	
BS2V 2MXH 206/A	BSM2V 2MXH 206	1,1+1,1	1,5+1,5	G 2	G 11/2	1100	162	202	845	406				54	24x2	
BS2V 2MXH 403/A	BSM2V 2MXH 403/A	0,55+0,55	0,75+0,75	G 2	G 11/2	1100	162	202	773	335				46	24x2	
BS2V 2MXH 404/A	BSM2V 2MXH 404/A	0,75+0,75	1+1	G 2	G 11/2	1100	162	202	796	358				49	24x2	
BS2V 2MXH 405/A	BSM2V 2MXH 405	1,1+1,1	1,5+1,5	G 2	G 11/2	1100	162	202	820	382				53	24x2	
BS2V 2MXH 406/E	BSM2V 2MXH 406	1,5+1,5	2+2	G 2	G 11/2	1100	162	202	845	406				57	24x2	
BS2V 2MXH 803	BSM2V 2MXH 803	1,1+1,1	1,5+1,5	G 21/2	G 2	1100	162	208	866	428				61	24x2	
BS2V 2MXH 804	BSM2V 2MXH 804	1,5+1,5	2+2	G 21/2	G 2	1100	162	208	896	458				66	24x2	
BS2V 2MXH 805		1,8+1,8	2,5+2,5	G 21/2	G 2	1100	162	208	926	488				68	24x2	
BS2V 2MXH 1603		1,8+1,8	2,5+2,5	G 3	G 21/2	1100	151	298	970	496				80	24x2	

Coverage chart



Characteristic, dimensions and weights



BS2F BSM2F

Mains: 400V 3~ Motor: 400V 3~	Mains: 230V 1~ Motor: 230V 1~	Motor		Q max* l/min	Pres. switch setting bar	Manifolds		mm							Weight kg	Vessel Mem. litre	Vessel litre		
		kW	HP			DN1	DN2	H	h1	h2	L1	L2	m1	B2	B				
BS2F 2MXP 203	BSM2F 2MXPM 203	0,45+0,45	0,6+0,6	155	1,4÷2,6	1,0÷2,2	G 2	G 1½	840	151	206	793	355			41	24x2	100	
BS2F 2MXP 204/A	BSM2F 2MXPM 204/A	0,55+0,55	0,75+0,75	160	2,0÷3,2	1,5÷2,7	G 2	G 1½	840	151	206	793	355			46	24x2	100	
BS2F 2MXP 403/A	BSM2F 2MXPM 403/A	0,55+0,55	0,75+0,75	230	1,5÷2,7	1,2÷2,4	G 2	G 1½	840	151	206	793	355	235	625	600	46	24x2	100
BS2F 2MXP 404/A	BSM2F 2MXPM 404/A	0,75+0,75	1+1	220	2,4÷3,6	2,0÷3,2	G 2	G 1½	840	151	206	793	355			48	80	200	

* Maximum pumps flow at minimum set pressure of 2nd pressure switch.

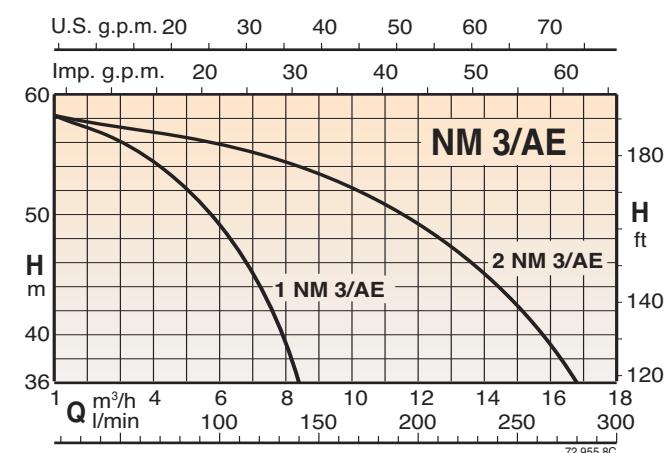
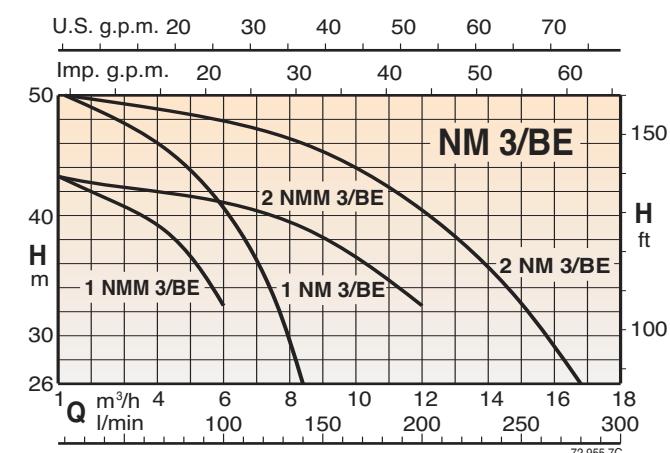
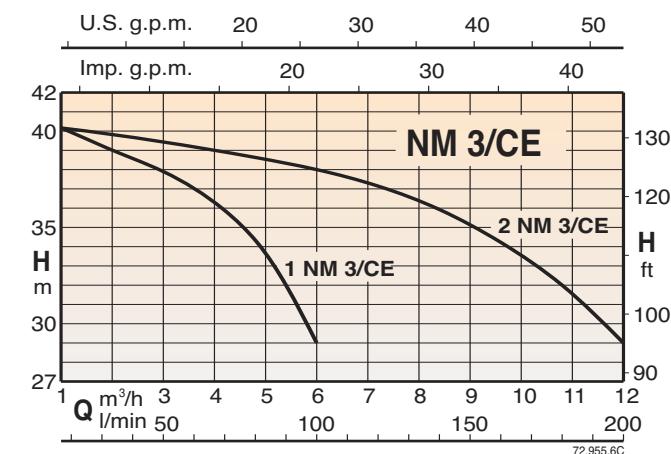
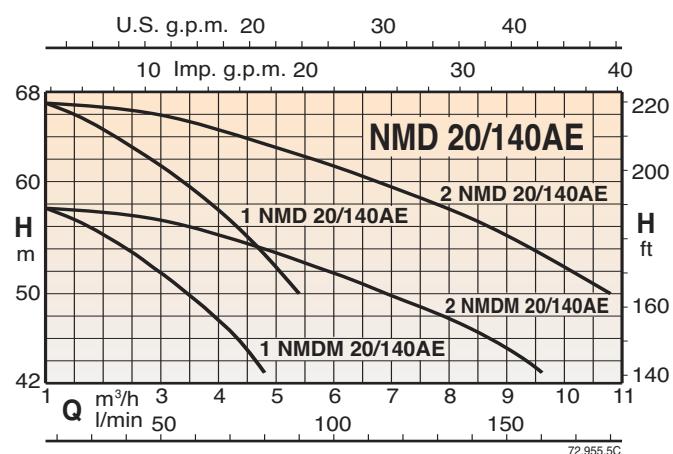
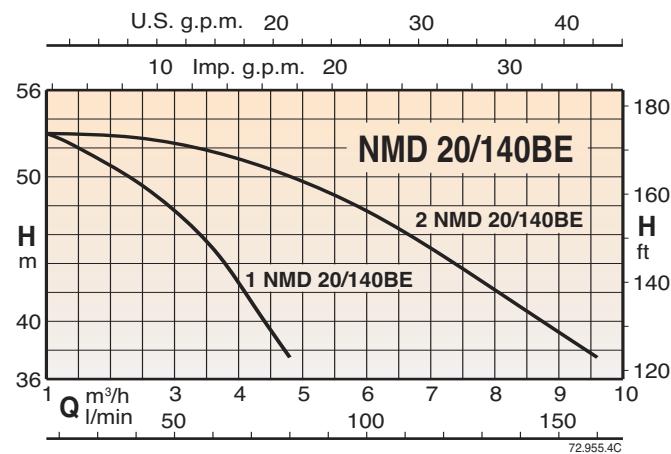
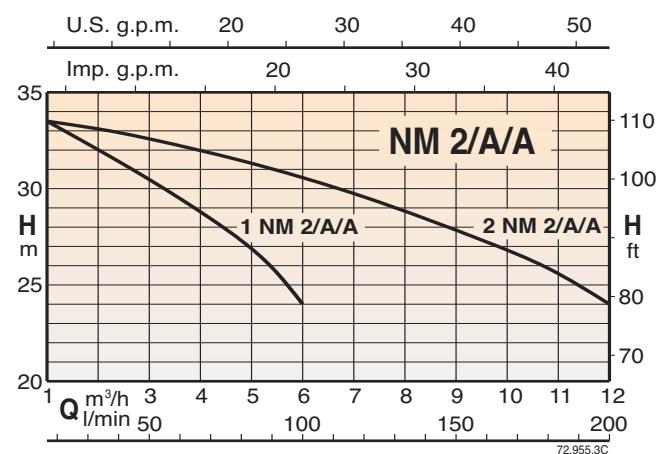
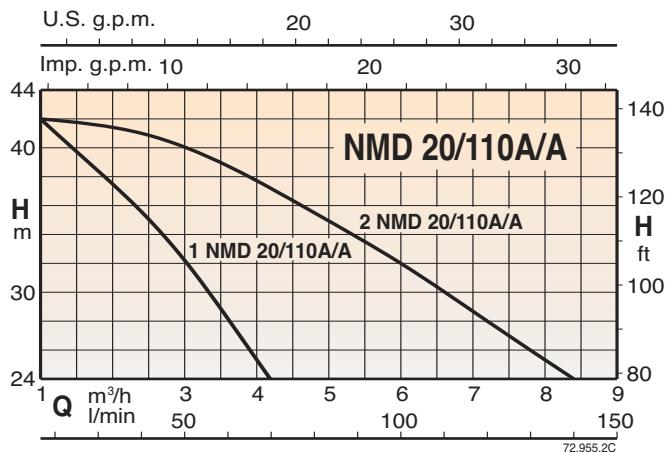
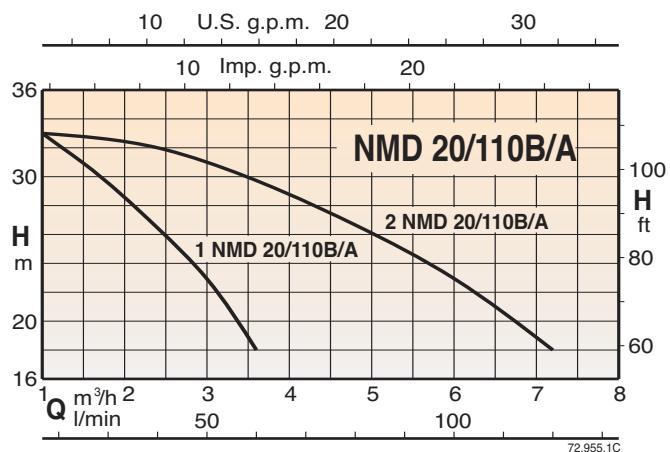
BS1V1F BSM1V1F

Mains: 400V 3~ Motor: 400V 3~	Mains: 230V 1~ Motor: 230V 3~ and 230V 1~	Motor		Manifolds		mm							Weight kg	Vessel Membrane litre	
		kW	HP	DN1	DN2	H	h1	h2	L1	L2	m1	B2	B		
BS1V1F 2MXP 203	BSM1V1F 2MXPM 203	0,45+0,45	0,6+0,6	G 2	G 1½	1100	151	206	793	355				41	24x2
BS1V1F 2MXP 204/A	BSM1V1F 2MXPM 204/A	0,55+0,55	0,75+0,75	G 2	G 1½	1100	151	206	793	355	235	625	600	46	24x2
BS1V1F 2MXP 403/A	BSM1V1F 2MXPM 403/A	0,55+0,55	0,75+0,75	G 2	G 1½	1100	151	206	793	355				46	24x2
BS1V1F 2MXP 404/A	BSM1V1F 2MXPM 404/A	0,75+0,75	1+1	G 2	G 1½	1100	151	206	793	355				48	24x2

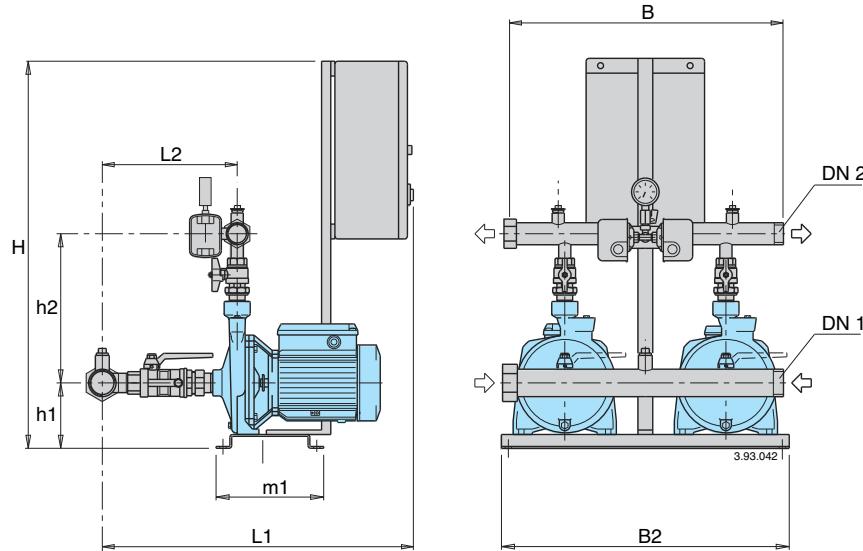
BS2V BSM2V

Mains: 400V 3~ Motor: 400V 3~	Mains: 230V 1~ Motor: 230V 3~	Motor		Manifolds		mm							Weight kg	Vessel Membrane litre	
		kW	HP	DN1	DN2	H	h1	h2	L1	L2	m1	B2	B		
BS2V 2MXP 203	BSM2V 2MXPM 203	0,45+0,45	0,6+0,6	G 2	G 1½	1100	151	206	793	355				41	24x2
BS2V 2MXP 204/A	BSM2V 2MXPM 204/A	0,55+0,55	0,75+0,75	G 2	G 1½	1100	151	206	793	355	235	625	600	46	24x2
BS2V 2MXP 403/A	BSM2V 2MXPM 403/A	0,55+0,55	0,75+0,75	G 2	G 1½	1100	151	206	793	355				46	24x2
BS2V 2MXP 404/A	BSM2V 2MXPM 404/A	0,75+0,75	1+1	G 2	G 1½	1100	151	206	793	355				48	24x2

Coverage chart



Characteristic, dimensions and weights



BS2F BSM2F

Mains: 400V 3~ Motor: 400V 3~	Mains: 230V 1~ Motor: 230V 1~	Motor		Q max* l/min	Pres. switch setting bar	Manifolds DN1	DN2	mm							Weight kg	Vessel Mem. litre	
		kW	HP					H	h1	h2	L1	L2	m1	B2	B		
BS2F 2NMD 20/110B/A	BSMF2 2NMDM 20/110B/A	0,45+0,45	0,6+0,6	120	2,0÷3,0	1,7÷2,7	G2	G 1½	840	129	277	670	315			51	24x2 100
BS2F 2NMD 20/110A/A	BSMF2 2NMDM 20/110A/A	0,75+0,75	1+1	130	2,8÷3,8	2,5÷3,5	G2	G 1½	840	129	277	670	315			55	60 100
BS2F 2NM 2/A/A	BSMF2 2NMM 2/A/A	0,75+0,75	1+1	200	2,0÷3,0	1,7÷2,7	G2	G 1½	840	129	295	620	262			54	80 200
BS2F 2NMD 20/140BE	BSMF2 2NMDM 20/140BE	1,1+1,1	1,5+1,5	160	3,5÷5,0	3,2÷4,7	G2	G 1½	840	146	295	670	320			72	80 200
	BSMF2 2NMDM 20/140AE	1,5+1,5	2+2	160	4,0÷5,3	3,7÷5,0	G2	G 1½	840	146	295	670	320	235	625	600	75 100 200
BS2F 2NMD 20/140AE		1,5+1,5	2+2	180	5,0÷6,3	4,7÷6,0	G2	G 1½	840	146	295	670	320			77	100 200
BS2F 2NM 3/CE	BSMF2 2NMM 3/CE	1,1+1,1	1,5+1,5	200	2,5÷3,5	2,2÷3,2	G2	G 1½	840	146	325	650	267			71	100 200
	BSMF2 2NMM 3/BE	1,5+1,5	2+2	200	3,0÷4,0	2,7÷3,7	G2	G 1½	840	146	325	650	267			75	100 300
BS2F 2NM 3/BE		1,5+1,5	2+2	270	3,2÷4,5	2,9÷4,2	G2	G 1½	840	146	325	650	267			76	100 300
BS2F 2NM 3/AE		2,2+2,2	3+3	280	4,0÷5,5	3,7÷5,2	G2	G 1½	840	146	325	650	267			78	200 300

* Maximum pumps flow at minimum set pressure of 2nd pressure switch.

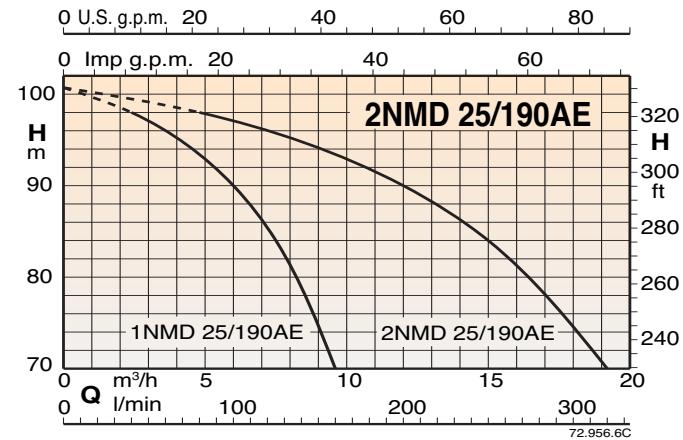
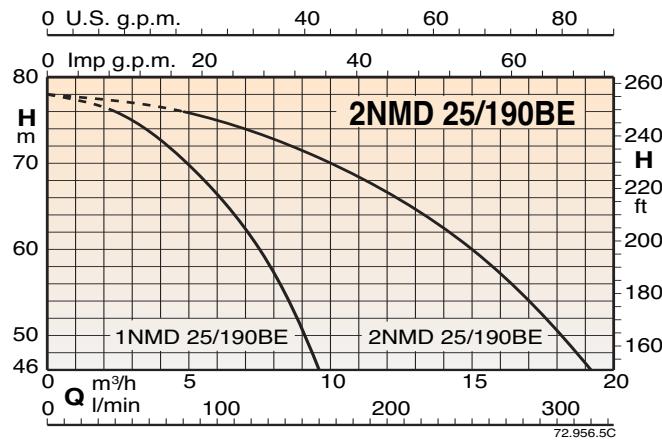
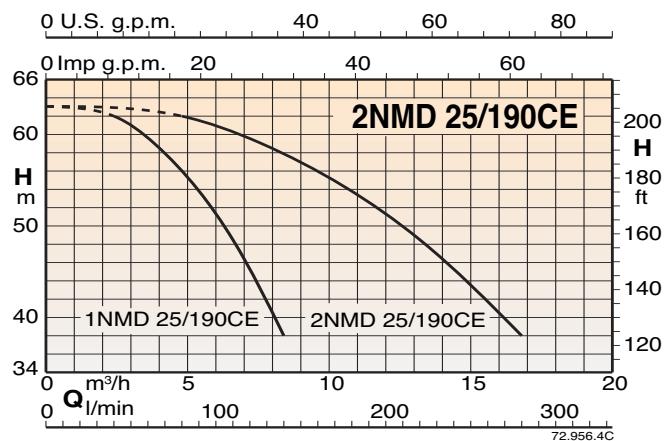
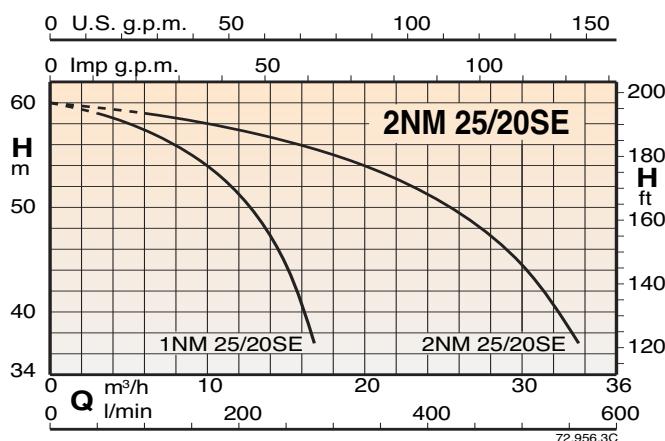
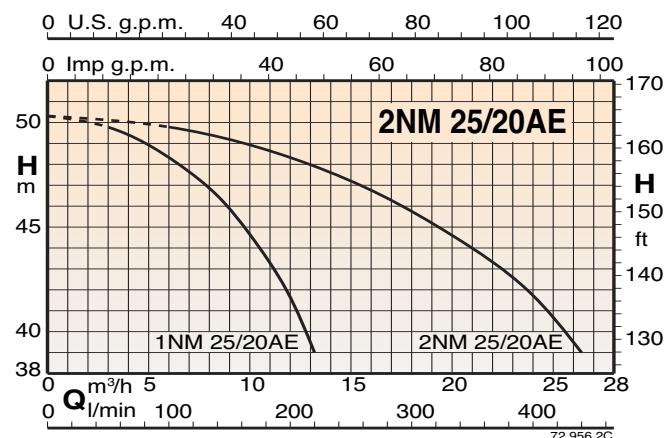
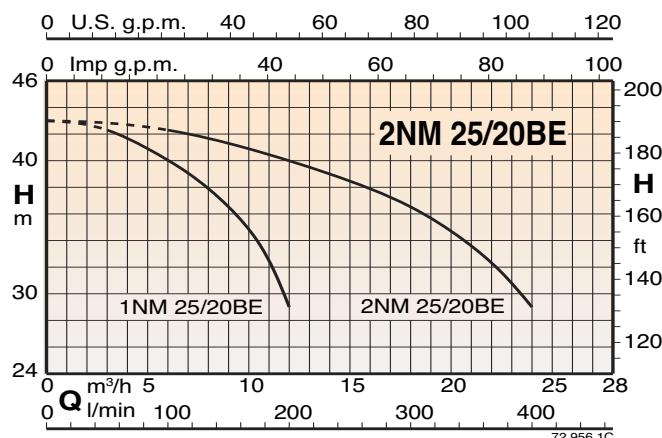
BS1V1F BSM1V1F

Mains: 400V 3~ Motor: 400V 3~	Mains: 230V 1~ Motor: 230V 3~ and 230V 1~	Motor		Manifolds		mm							Weight kg	Vessel Membrane litre	
		kW	HP	DN1	DN2	H	h1	h2	L1	L2	m1	B2	B		
BS1V1F 2NMD 20/110B/A	BSMF1V1F 2NMDM 20/110B/A	0,45+0,45	0,6+0,6	G2	G 1½	840	129	277	670	315				51	24x2
BS1V1F 2NMD 20/110A/A	BSMF1V1F 2NMDM 20/110A/A	0,75+0,75	1+1	G2	G 1½	840	129	277	670	315				55	24x2
BS1V1F 2NM 2/A/A	BSMF1V1F 2NMM 2/A/A	0,75+0,75	1+1	G2	G 1½	840	129	295	620	262				54	24x2
BS1V1F 2NMD 20/140BE	BSMF1V1F 2NMDM 20/140BE	1,1+1,1	1,5+1,5	G2	G 1½	840	146	295	670	320				72	24x2
	BSMF1V1F 2NMDM 20/140AE	1,5+1,5	2+2	G2	G 1½	840	146	295	670	320	235	625	600	75	24x2
BS1V1F 2NMD 20/140AE		1,5+1,5	2+2	G2	G 1½	840	146	295	670	320				77	24x2
BS1V1F 2NM 3/CE	BSMF1V1F 2NMM 3/CE	1,1+1,1	1,5+1,5	G2	G 1½	840	146	325	650	267				71	24x2
	BSMF1V1F 2NMM 3/BE	1,5+1,5	2+2	G2	G 1½	840	146	325	650	267				75	24x2
BS1V1F 2NM 3/BE		1,5+1,5	2+2	G2	G 1½	840	146	325	650	267				76	24x2
BS1V1F 2NM 3/AE		2,2+2,2	3+3	G2	G 1½	840	146	325	650	267				78	24x2

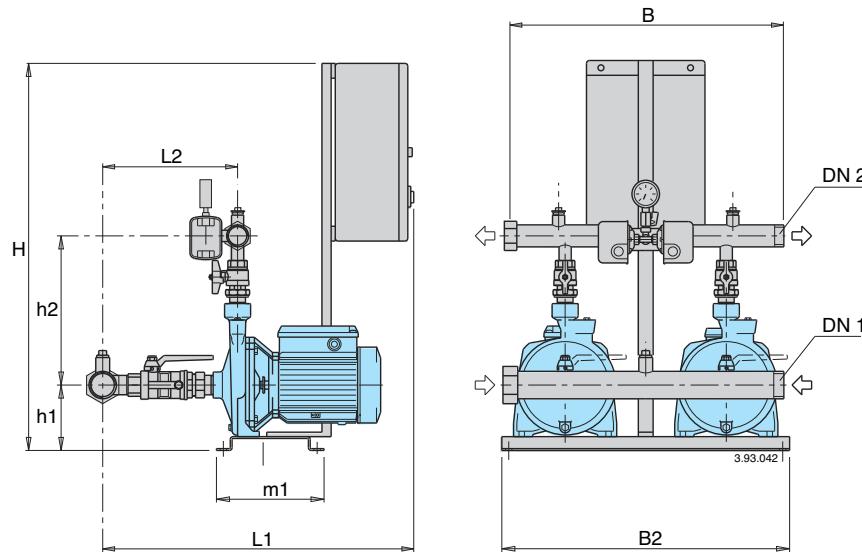
BS2V BSM2V

Mains: 400V 3~ Motor: 400V 3~	Mains: 230V 1~ Motor: 230V 3~	Motor		Manifolds		mm							Weight kg	Vessel Membrane litre	
		kW	HP	DN1	DN2	H	h1	h2	L1	L2	m1	B2	B		
BS2V 2NMD 20/110B/A	BSMF2 2NMDM 20/110B/A	0,45+0,45	0,6+0,6	G2	G 1½	840	129	277	670	315				51	24x2
BS2V 2NMD 20/110A/A	BSMF2 2NMDM 20/110A/A	0,75+0,75	1+1	G2	G 1½	840	129	277	670	315				55	24x2
BS2V 2NM 2/A/A	BSMF2 2NMM 2/A/A	0,75+0,75	1+1	G2	G 1½	840	129	295	620	262				54	24x2
BS2V 2NMD 20/140BE	BSMF2 2NMDM 20/140BE	1,1+1,1	1,5+1,5	G2	G 1½	840	146	295	670	320				72	24x2
	BSMF2 2NMDM 20/140AE	1,5+1,5	2+2	G2	G 1½	840	146	295	670	320	235	625	600	75	24x2
BS2V 2NMD 20/140AE		1,5+1,5	2+2	G2	G 1½	840	146	295	670	320				77	24x2
BS2V 2NM 3/CE	BSMF2 2NMM 3/CE	1,1+1,1	1,5+1,5	G2	G 1½	840	146	325	650	267				71	24x2
	BSMF2 2NMM 3/BE	1,5+1,5	2+2	G2	G 1½	840	146	325	650	267				75	24x2
BS2V 2NM 3/BE		1,5+1,5	2+2	G2	G 1½	840	146	325	650	267				76	24x2
BS2V 2NM 3/AE		2,2+2,2	3+3	G2	G 1½	840	146	325	650	267				78	24x2

Coverage chart



Characteristic, dimensions and weights



BS2F

Mains: 400V 3~ Motor: 400V 3~	Motor		Q max* l/min	Pres. switch setting		Manifolds		mm						Weight kg	Vessel Mem. / Vessel litre	
	kW	HP		bar	bar	DN1	DN2	H	h1	h2	L1	L2	m1	B2	B	
BS2F 2NM 25/20BE	2.2+2,2	3+3	400	3.0÷4,0	2.7÷3,7	G 21/2	G 2	840	160	330	725	373				87 300 500
BS2F 2NM 25/20AE	3+3	4+4	440	3.8÷4,8	3.5÷4,5	G 21/2	G 2	840	160	330	725	373				106 500 800
BS2F 2NM 25/20SE	4+4	5,5+5,5	560	4,0÷5,5	3,5÷5,0	G 21/2	G 2	840	160	330	725	373				114 500 800
BS2F 2NMD 25/190CE	2.2+2,2	3+3	280	4,3÷5,8	3,8÷5,3	G 21/2	G 2	840	175	330	760	407	235	625	600	108 200 300
BS2F 2NMD 25/190BE	3+3	4+4	300	5,5÷7,5	5,0÷7,0	G 21/2	G 2	840	175	330	760	407				123 200 300
BS2F 2NMD 25/190AE	4+4	5,5+5,5	320	7,5÷9,5	7,0÷9,0	G 21/2	G 2	840	175	330	760	407				132 300 500

* Maximum pumps flow at minimum set pressure of 2nd pressure switch.

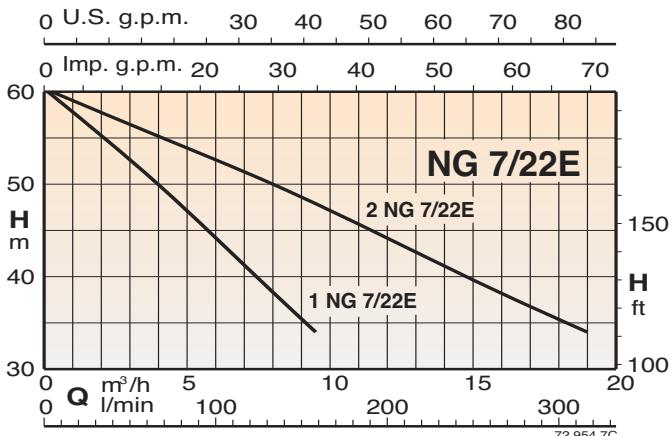
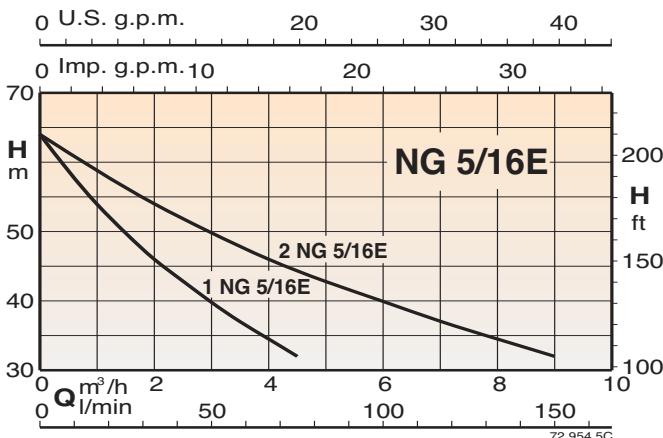
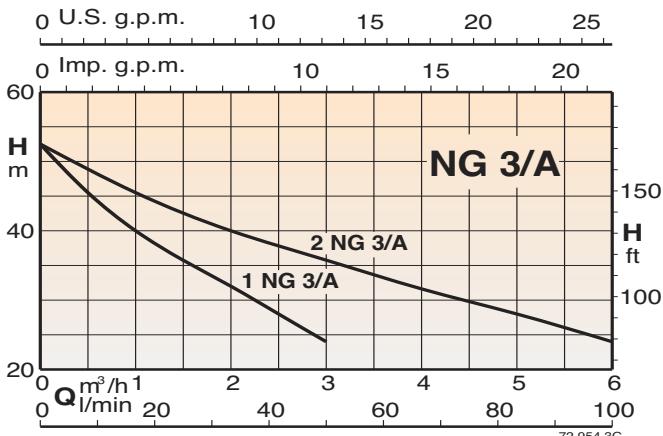
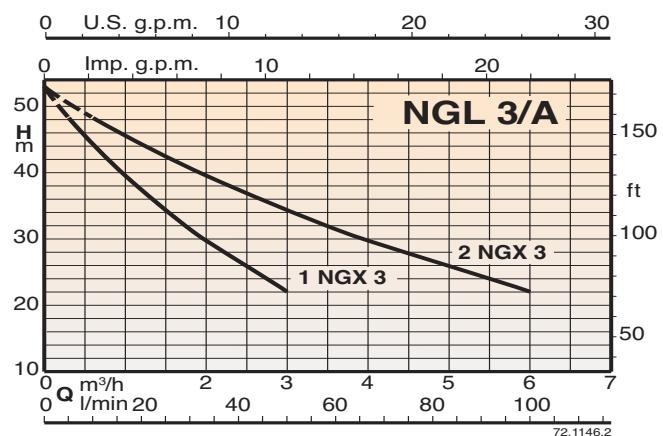
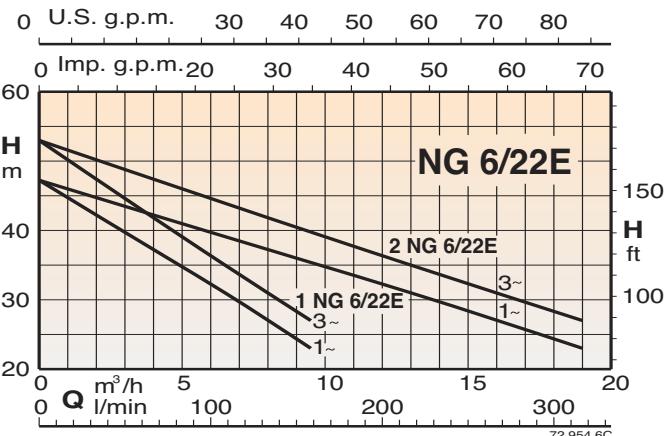
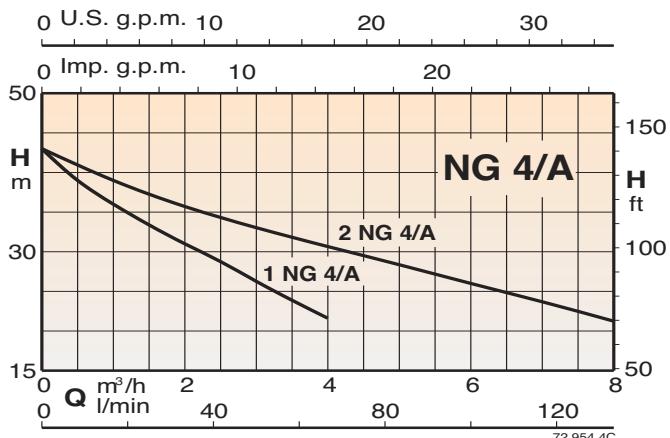
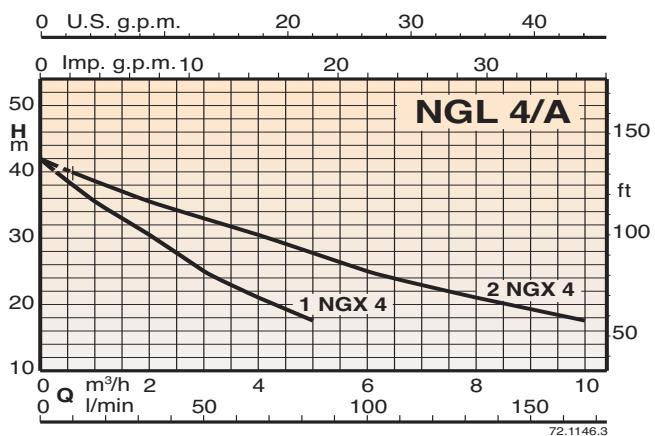
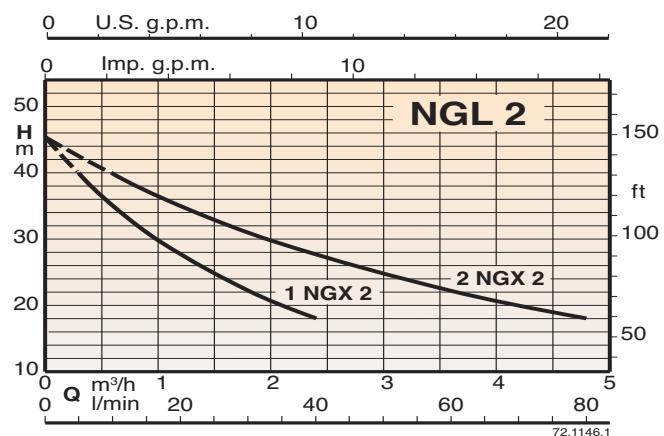
BS1V1F

Mains: 400V 3~ Motor: 400V 3~	Motor			Manifolds		mm						Weight kg	Vessel Membrane litre	
	kW	HP		DN1	DN2	H	h1	h2	L1	L2	m1	B2	B	
BS1V1F 2NM 25/20BE	2.2+2,2	3+3		G 21/2	G 2	840	160	330	725	373				87 24x2
BS1V1F 2NM 25/20AE	3+3	4+4		G 21/2	G 2	840	160	330	725	373				106 24x2
BS1V1F 2NM 25/20SE	4+4	5,5+5,5		G 21/2	G 2	840	160	330	725	373				114 24x2
BS1V1F 2NMD 25/190CE	2.2+2,2	3+3		G 21/2	G 2	840	175	330	760	407	235	625	600	108 24x2
BS1V1F 2NMD 25/190BE	3+3	4+4		G 21/2	G 2	840	175	330	760	407				123 24x2
BS1V1F 2NMD 25/190AE	4+4	5,5+5,5		G 21/2	G 2	840	175	330	760	407				132 24x2

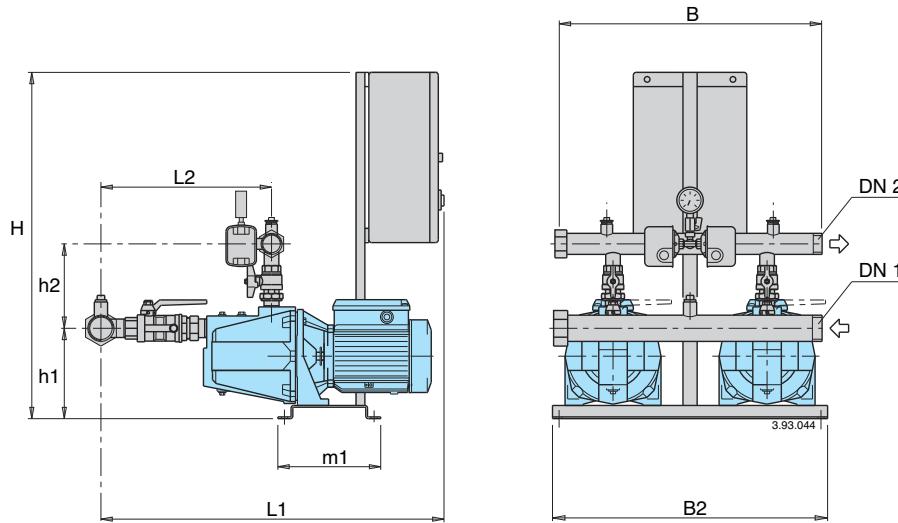
BS2V

Mains: 400V 3~ Motor: 400V 3~	Motor			Manifolds		mm						Weight kg	Vessel Membrane litre	
	kW	HP		DN1	DN2	H	h1	h2	L1	L2	m1	B2	B	
BS2F 2NM 25/20BE	2.2+2,2	3+3		G 21/2	G 2	840	160	330	725	373				87 24x2
BS2F 2NM 25/20AE	3+3	4+4		G 21/2	G 2	840	160	330	725	373				106 24x2
BS2F 2NM 25/20SE	4+4	5,5+5,5		G 21/2	G 2	840	160	330	725	373				114 24x2
BS2F 2NMD 25/190CE	2.2+2,2	3+3		G 21/2	G 2	840	175	330	760	407	235	625	600	108 24x2
BS2F 2NMD 25/190BE	3+3	4+4		G 21/2	G 2	840	175	330	760	407				123 24x2
BS2F 2NMD 25/190AE	4+4	5,5+5,5		G 21/2	G 2	840	175	330	760	407				132 24x2

Coverage chart



Characteristic, dimensions and weights



BS2F BSM2F

Mains: 400V 3~ Motor: 400V 3~	Mains: 230V 1~ Motor: 230V 1~	Motor		Q max* l/min	Pres. switch setting		Manifolds		mm							Weight kg	Vessel Mem. litre	Vessel litre	
		kW	HP		bar	bar	DN1	DN2	H	h1	h2	L1	L2	m1	B2	B			
BS2F 2NGL 2	BSM2F 2NGLM 2	0,45+0,45	0,6+0,6	70	2,4÷3,6	2,0÷3,2	G 2	G 11/2	840	151	206	793	355				42	24x2	100
BS2F 2NGL 3/A	BSM2F 2NGLM 3/A	0,55+0,55	0,75+0,75	90	2,8÷4,0	2,2÷3,6	G 2	G 11/2	840	151	206	793	355	235	625	600	46	24x2	100
BS2F 2NGL 4/A	BSM2F 2NGLM 4/A	0,75+0,75	1+1	160	2,2÷3,4	1,8÷3,0	G 2	G 11/2	840	151	206	793	355				49	24x2	100

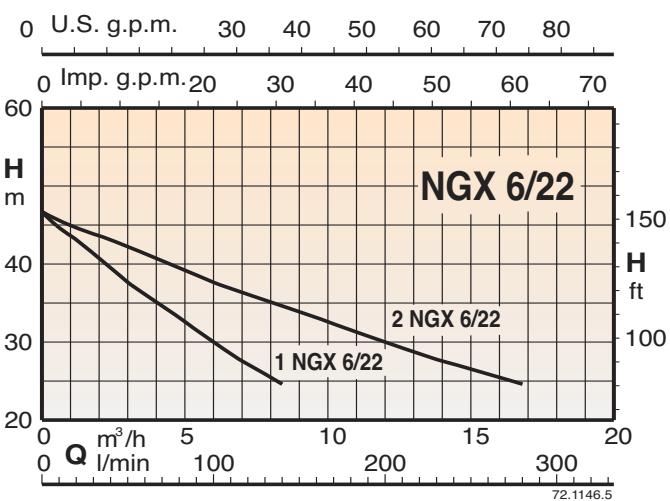
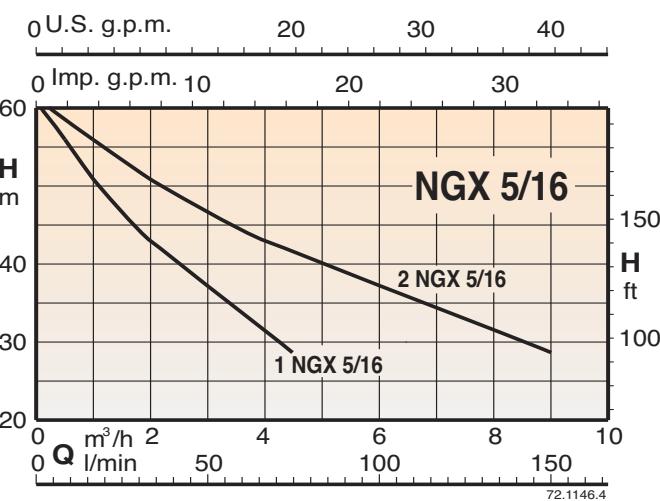
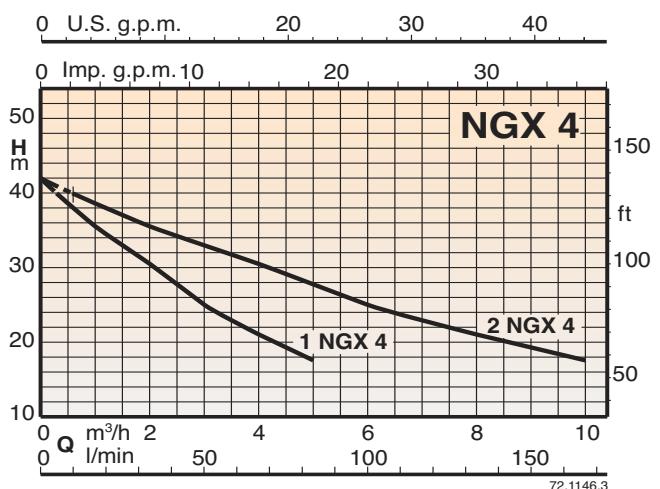
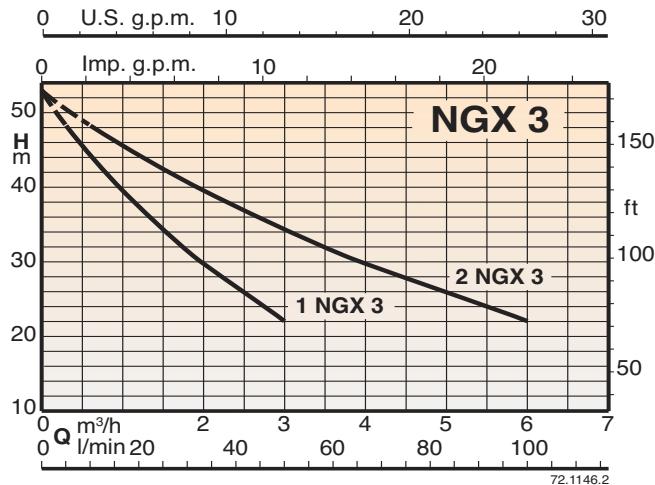
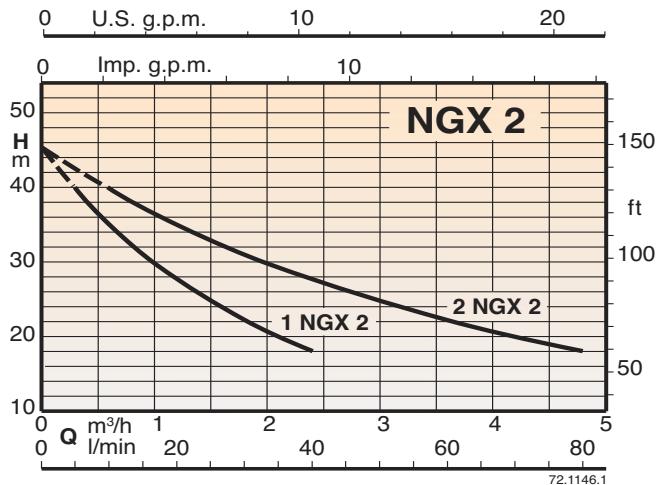
* Maximum pumps flow at minimum set pressure of 2nd pressure switch.

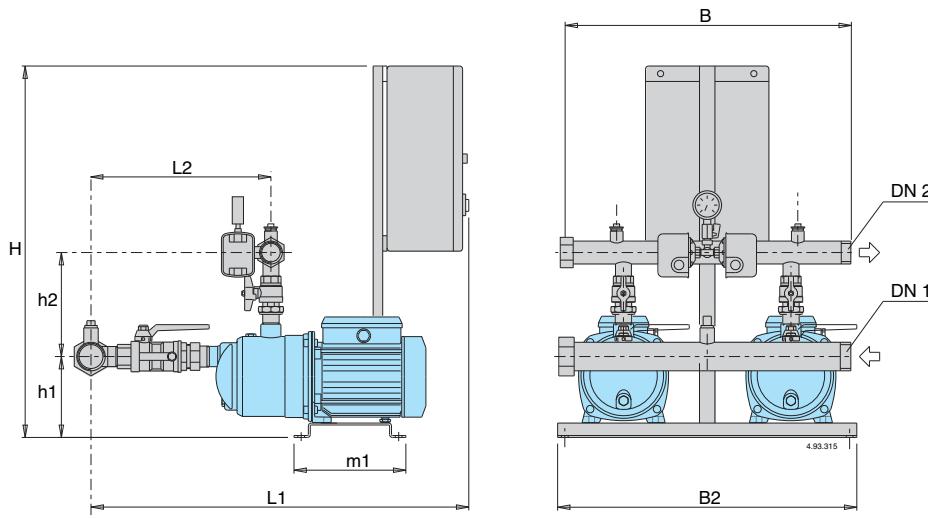
BS2F BSM2F

Mains: 400V 3~ Motor: 400V 3~	Mains: 230V 1~ Motor: 230V 1~	Motor		Q max* l/min	Pres. switch setting		Manifolds		mm							Weight kg	Vessel Mem. litre	Vessel litre	
		kW	HP		bar	bar	DN1	DN2	H	h1	h2	L1	L2	m1	B2	B			
BS2F 2NG 3/A	BSM2F 2NGM 3/A	0,55+0,55	0,75+0,75	95	3,0÷4,2	2,5÷3,7	G 2	G 11/2	840	184	188	775	345				61	24x2	100
BS2F 2NG 4/A	BSM2F 2NGM 4/A	0,75+0,75	1+1	130	2,5÷3,7	2,1÷3,3	G 2	G 11/2	840	184	188	775	345				62	24x2	100
BS2F 2NG 5-16E	BSM2F 2NGM 5-16E	1,14+1,1	1,5+1,5	140	3,8÷5,3	3,4÷4,9	G 2 1/2	G 11/2	840	200	202	935	470	235	625	600	86	24x2	100
BS2F 2NG 6-22E	BSM2F 2NGM 6-22E	1,5+1,5	2+2	290	3,0÷4,2	2,5÷3,7	G 2 1/2	G 11/2	840	200	202	935	470				89	100	200
BS2F 2NG 7-22E		1,5+1,5	2+2	300	3,2÷4,5	2,8÷4,0	G 2 1/2	G 11/2	840	200	202	935	470				90	100	200
		2,2+2,2	3+3		3,8÷5,3	3,4÷4,9	G 2 1/2	G 11/2	840	200	202	935	470				92	200	300

* Maximum pumps flow at minimum set pressure of 2nd pressure switch.

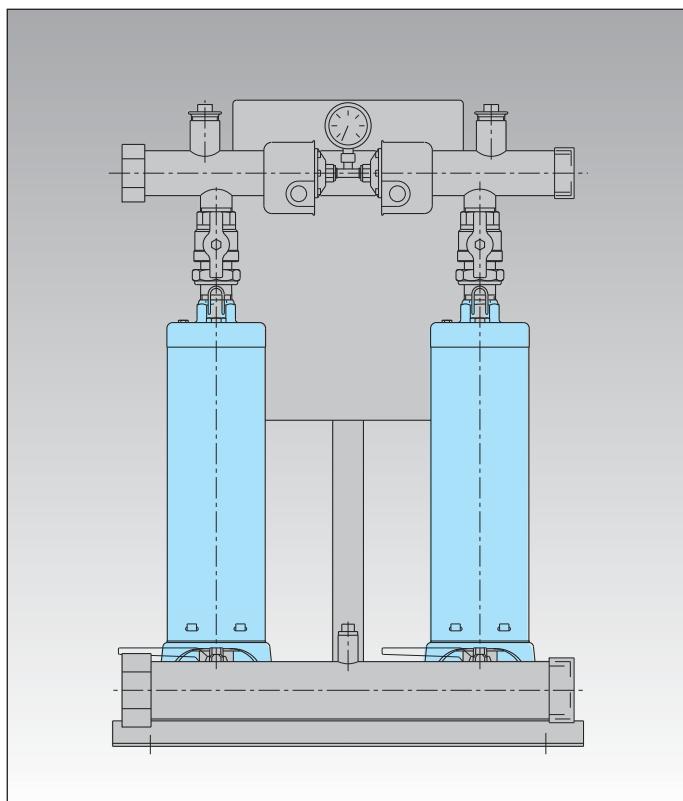
Coverage chart



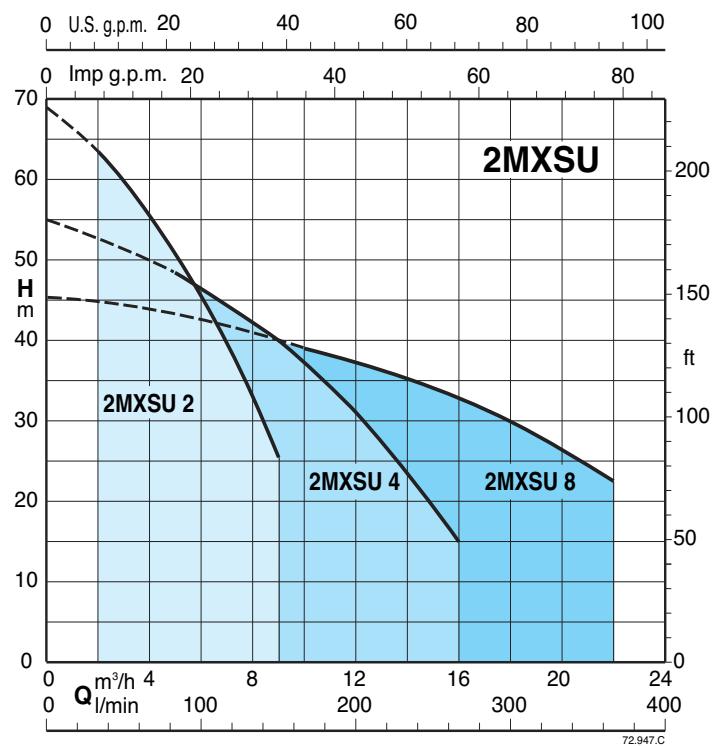
Characteristic, dimensions and weights

BS2F BSM2F

Mains: 400V 3~ Motor: 400V 3~	Mains: 230V 1~ Motor: 230V 1~	Motor		Q max* l/min	Pres. switch setting		Manifolds		mm							Weight kg	Vessel Mem. litre	Vessel litre	
		kW	HP		bar	bar	DN1	DN2	H	h1	h2	L1	L2	m1	B2	B			
BS2F 2NGX 2	BSM2F 2NGXM 2	0,45+0,45	0,6+0,6	70	2,4÷3,6	2,0÷3,2	G 2	G 1½	840	151	206	793	355				42	24x2	100
BS2F 2NGX 3/A	BSM2F 2NGXM 3/A	0,55+0,55	0,75+0,75	90	2,8÷4,0	2,2÷3,6	G 2	G 1½	840	151	206	793	355				46	24x2	100
BS2F 2NGX 4/A	BSM2F 2NGXM 4/A	0,75+0,75	1+1	160	2,2÷3,4	1,8÷3,0	G 2	G 1½	840	151	206	793	355				49	24x2	100
BS2F 2NGX 5-16	BSM2F 2NGXM 5-16	1,1+1,1	1,5+1,5	140	3,4÷4,9	3,0÷4,5	G 2½	G 1½	840	187	212	836	380				61	24x2	100
BS2F 2NGX 6-22	BSM2F 2NGXM 6-22	1,5+1,5	2+2	280	3,0÷4,2	2,5÷3,7	G 2½	G 1½	840	187	212	836	380				65	100	200

* Maximum pumps flow at minimum set pressure of 2nd pressure switch.



Coverage chart



Construction

Automatic pressure boosting plant consisting of two vertical multi-stage pumps complete with ball, non return valve on the suction side and ball valves on the discharge side.

Suction and delivery manifolds are in AISI 304 stainless steel.

Connections are located on the delivery manifold for the installation of two 20 litres cylindrical vessels.

Electrical control boards:

- with microprocessor for fixed speed pump units (see page 386).
- with frequency converter for variable speed pump units (see page 387).

The unit includes one pressure gauge and two adjustable differential pressure switches.

Operation

BS 2F Fixed speed pump

Depending on the reduction of the pressure in the system, the pressure switches determine the starting up of the pumps in sequence and the microprocessor alternates the starts.

BS1V1F Pumps at variable speed with one frequency converter

According to the water consumption, one or more pumps start, one at variable speed and the others at fixed speed, to grant the water quantity required at the set pressure.

BS2V Pumps at variable speed with two frequency converter

Depending on water consumption, one or more pumps are activated, all at variable speed, in order to guarantee the quantity of water required at the set pressure.

Applications

To supply water in civil and industrial buildings.

As pressure boosting pump to increase water pressure when needed (follow local rules).

Motors

2-pole induction motors, 50 Hz, n = 2900 rpm

- Three-phase 230V - 400V ± 10%, suitable for operation with frequency converter.

- Single-phase 230V ± 10%.

Insulation class F.

Protection IP 68.

Constructed in accordance with: IEC 60034.

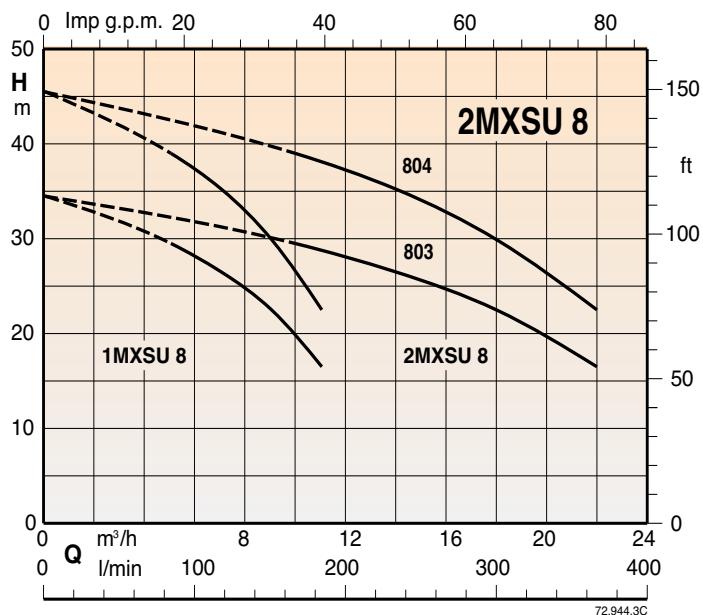
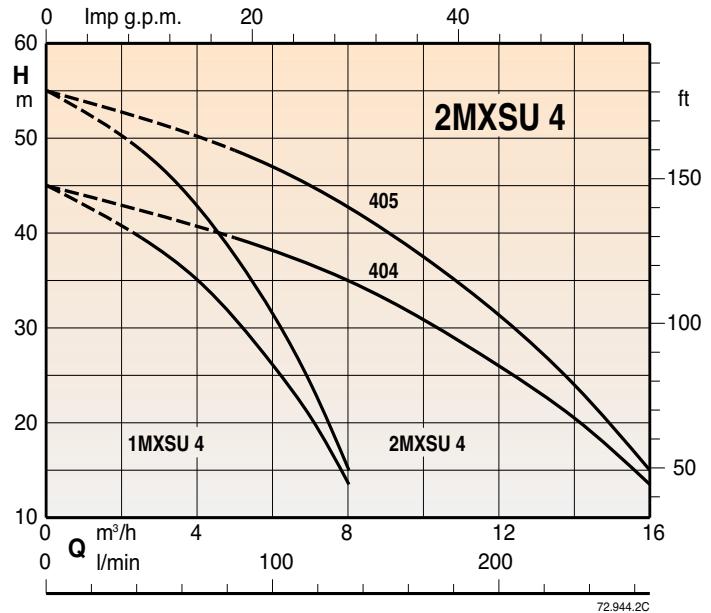
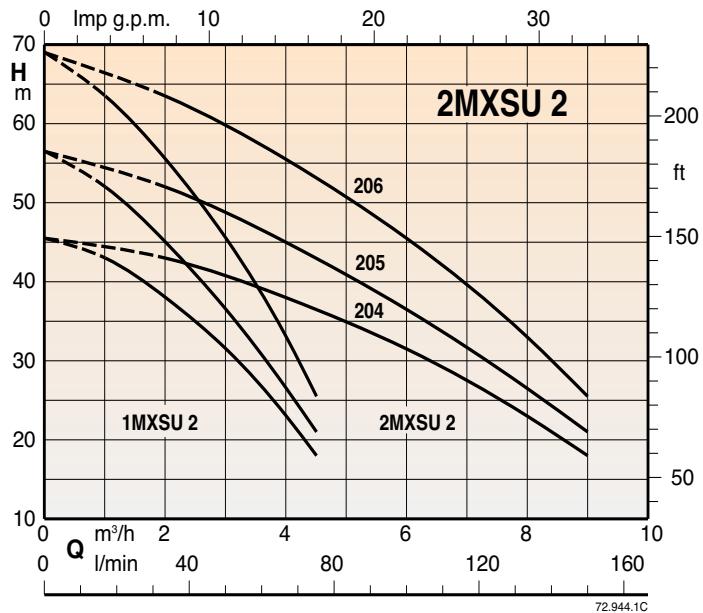
Other voltages and frequencies on request.

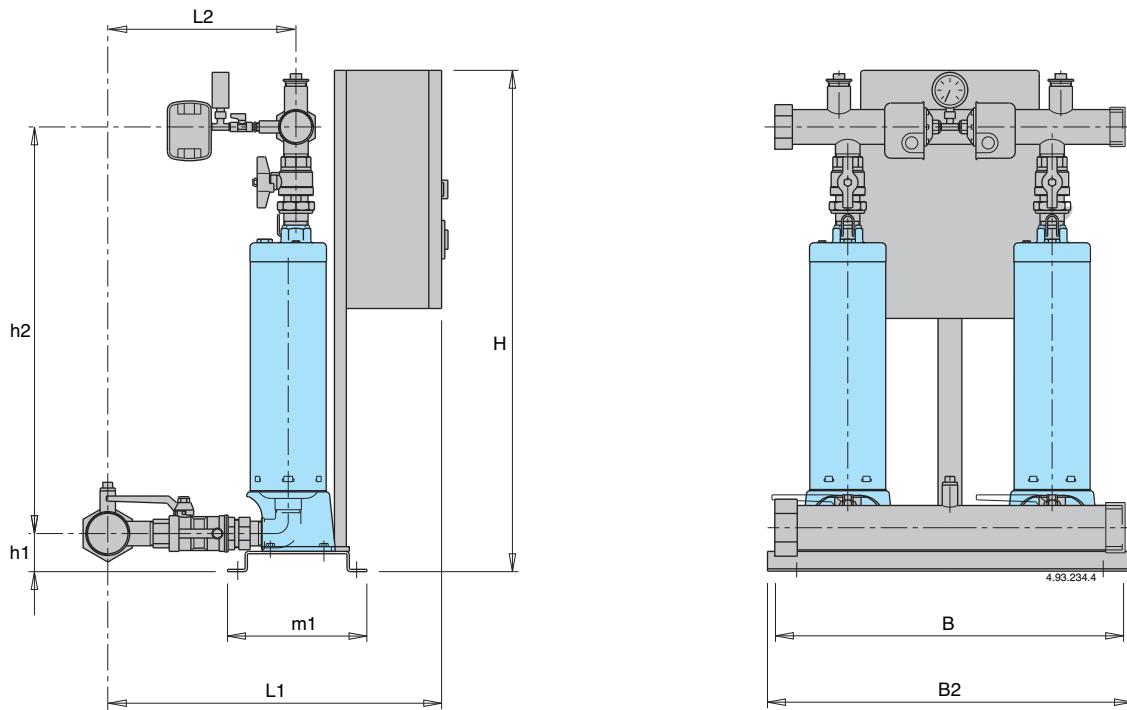
Vessels

When installing the unit, connect in the delivery section to a diaphragm or galvanised tank.

The recommended sizes are shown in the following page.

Coverage chart





Dimensions and weights

TYPE		DN1	DN2	mm								kg
				H	h1	h2	L1	L2	m1	B	B2	
BS.. 2MXSU 204	BSM.. 2MXSU 204	G 2	G 2	840	66	657	300	234	600	625	50 - 50	
BS.. 2MXSU 205	BSM.. 2MXSU 205					681	630				52 - 52	
BS.. 2MXSU 206	BSM.. 2MXSU 206					705					54 - 55	
BS.. 2MXSU 404	BSM.. 2MXSU 404	G 2	G 2	840	66	657	300	234	600	625	52 - 53	
BS.. 2MXSU 405	BSM.. 2MXSU 405					681	630				53 - 54	
BS.. 2MXSU 803	BSM.. 2MXSU 803	G 2	G 2	840	66	681	300	234	600	625	52 - 53	
BS.. 2MXSU 804	BSM.. 2MXSU 804					681	630				57	

Performance

BS2F BSM2F

Mains: 400V 3~ Motor: 400V 3~	Mains: 230V 1~ Motor: 230V 1~	Motor		Pres. switch	Pres. switch	Average capacity		Maximum capacity		Membrane V.	Vessel
		kW	HP	bar	bar	Q l/min	H m	Q l/min	H m	litre	litre
BS2F 2MXSU 204	BSM2F 2MXSU 204	0,55+0,55	0,75+0,75	2,5-4,0	2,0-3,5	98	32	145	20	40	100
BS2F 2MXSU 205	BSM2F 2MXSU 205	0,75+0,75	1+1	3,5-5,0	3,0-4,5	83	41	122	30	40	100
BS2F 2MXSU 206	BSM2F 2MXSU 206	0,9+0,9	1,2+1,2	4,5-6,0	4,0-5,5	83	51	117	40	50	100
BS2F 2MXSU 404	BSM2F 2MXSU 404	0,9+0,9	1,2+1,2	2,3-3,8	1,8-3,3	172	30	240	18	60	100
BS2F 2MXSU 405	BSM2F 2MXSU 405	1,1+1,1	1,5+1,5	3,0-4,5	2,5-4,0	172	37	230	25	80	300
BS2F 2MXSU 803	BSM2F 2MXSU 803	1,1+1,1	1,5+1,5	2,0-3,0	1,7-2,7	260	25	365	17	100	300
BS2F 2MXSU 804	BSM2F 2MXSU 804	1,5+1,5	2+2	3,0-4,0	2,5-3,5	245	34	350	25	200	300

BS1V1F BSM1V1F

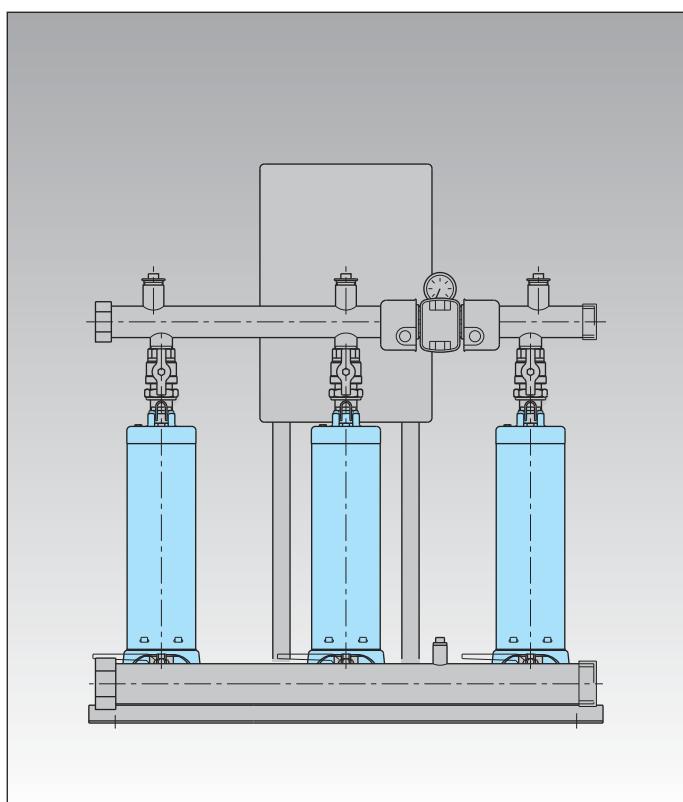
Mains: 400V 3~ Motor: 400V 3~	Mains: 230V 1~ (1)	Motor		Vessel
		kW	HP	Membrane litre
BS1V1F 2MXSU 204	BS1V1F 2MXSU 204	0,55 x 2	0,75 x 2	24x2
BS1V1F 2MXSU 205	BS1V1F 2MXSU 205	0,75 x 2	1 x 2	24x2
BS1V1F 2MXSU 206	BS1V1F 2MXSU 206	0,9 x 2	1,2 x 2	24x2
BS1V1F 2MXSU 404	BS1V1F 2MXSU 404	0,9 x 2	1,2 x 2	24x2
BS1V1F 2MXSU 405	BS1V1F 2MXSU 405	1,1 x 2	1,5 x 2	24x2
BS1V1F 2MXSU 803	BS1V1F 2MXSU 803	1,1 x 2	1,5 x 2	24x2
BS1V1F 2MXSU 804	BS1V1F 2MXSU 804	1,5 x 2	2 x 2	24x2

(1) SYSTEMS WITH:
1 variable speed pump three-phase motor
1 fixed speed pump single-phase motor
Power supply to control panel
230 V single-phase

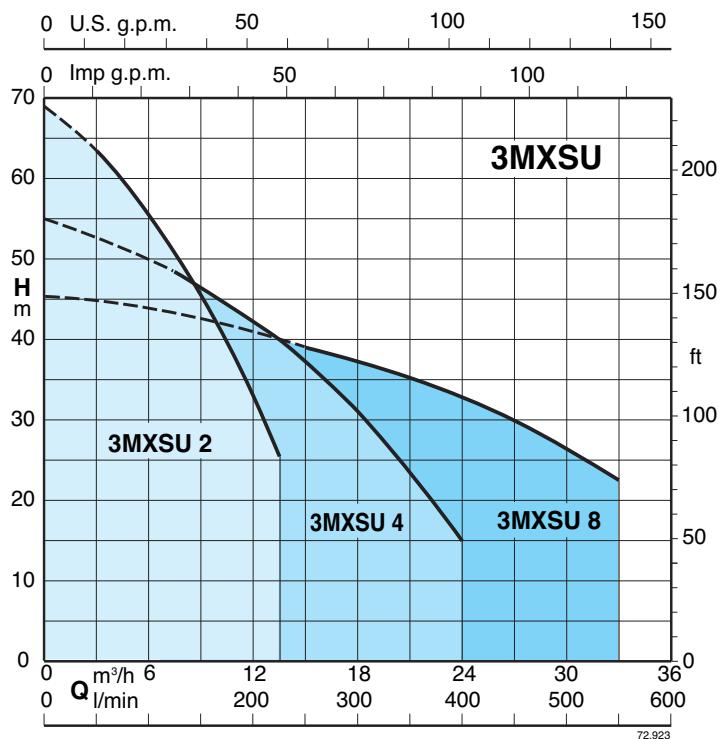
BS2V BSM2V

Mains: 400V 3~ Motor: 400V 3~	Mains: 230V 1~ (1)	Motor		Vessel
		kW	HP	Membrane litre
BS2V 2MXSU 204	BSM2V 2MXSU 204	0,55 x 2	0,75 x 2	24x2
BS2V 2MXSU 205	BSM2V 2MXSU 205	0,75 x 2	1 x 2	24x2
BS2V 2MXSU 206	BSM2V 2MXSU 206	0,9 x 2	1,2 x 2	24x2
BS2V 2MXSU 404	BSM2V 2MXSU 404	0,9 x 2	1,2 x 2	24x2
BS2V 2MXSU 405	BSM2V 2MXSU 405	1,1 x 2	1,5 x 2	24x2
BS2V 2MXSU 803	BSM2V 2MXSU 803	1,1 x 2	1,5 x 2	24x2
BS2V 2MXSU 804	BSM2V 2MXSU 804	1,5 x 2	2 x 2	24x2

(1) Three-phase motor 230 V.
Power supply to control panel:
- 230 V three-phase
- 230 V single-phase
Frequency converter output is always 230 V three-phase.



Coverage chart



Construction

Automatic pressure boosting plant consisting of three vertical multi-stage pumps complete with ball, non return valve on the suction side and ball valves on the discharge side.

Suction and delivery manifolds are in AISI 304 stainless steel.

Connections are located on the delivery manifold for the installation of two 20 litres cylindrical vessels.

Electrical control boards:

- with microprocessor for fixed speed pump units (see page 386).
- with frequency converter for variable speed pump units (see page 387).

The unit includes one pressure gauge and three adjustable differential pressure switches.

Operation

BS 3F Fixed speed pump

Depending on the reduction of the pressure in the system, the pressure switches determine the starting up of the pumps in sequence and the microprocessor alternates the starts.

BS1V2F Pumps at variable speed with one frequency converter

According to the water consumption, one or more pumps start, one at variable speed and the others at fixed speed, to grant the water quantity required at the set pressure.

BS3V Pumps at variable speed with three frequency converter

Depending on water consumption, one or more pumps are activated, all at variable speed, in order to guarantee the quantity of water required at the set pressure.

Applications

To supply water in civil and industrial buildings.

As pressure boosting pump to increase water pressure when needed (follow local rules).

Motors

2-pole induction motors, 50 Hz, n = 2900 rpm

- Three-phase 230V - 400V ± 10%, suitable for operation with frequency converter.

- Single-phase 230V ± 10% (on request).

Insulation class F.

Protection IP 68.

Constructed in accordance with: IEC 60034.

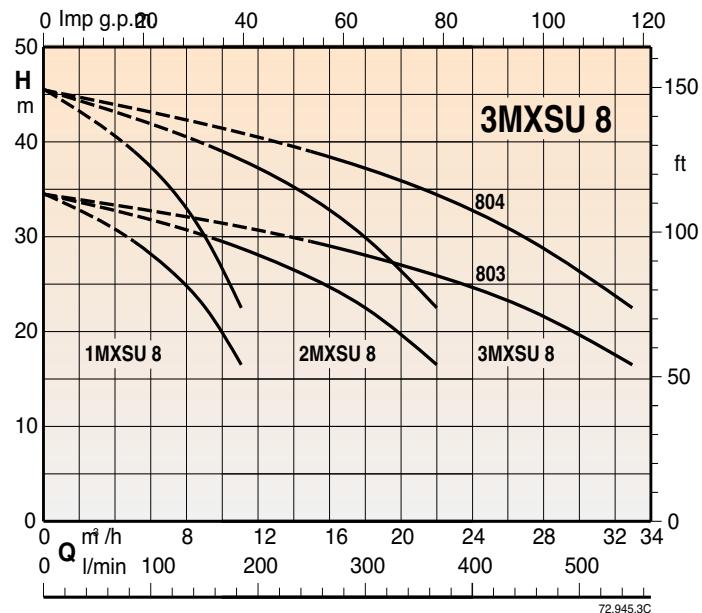
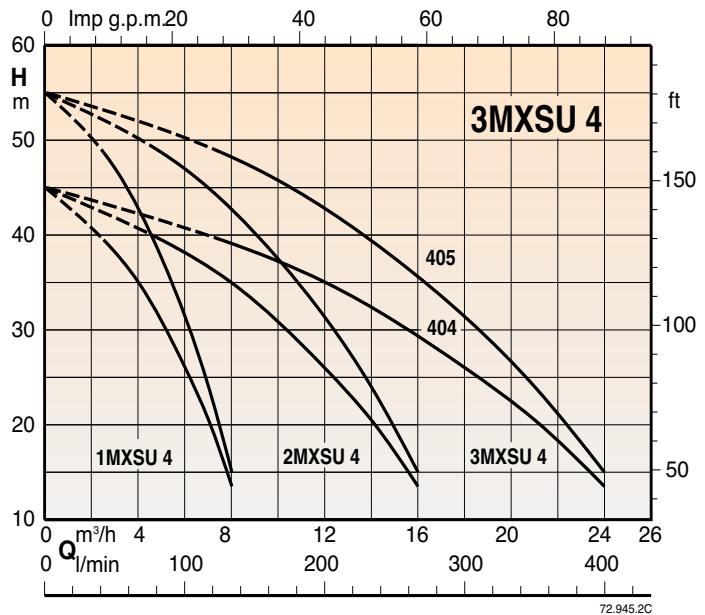
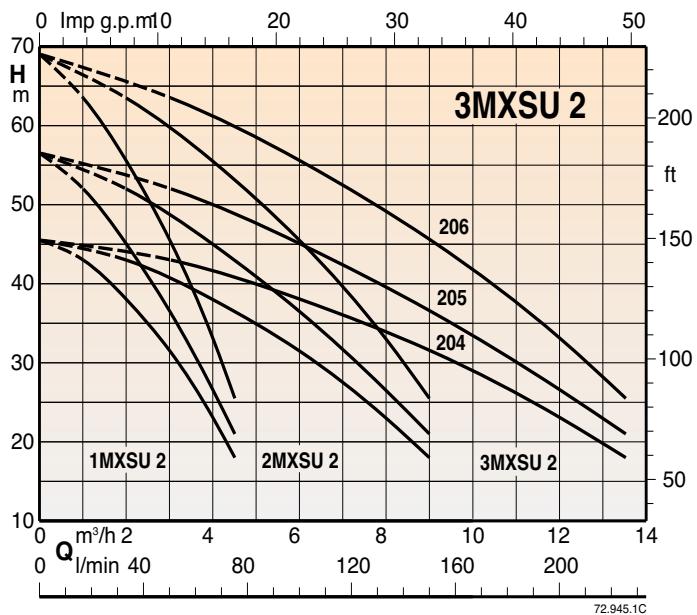
Other voltages and frequencies on request.

Vessels

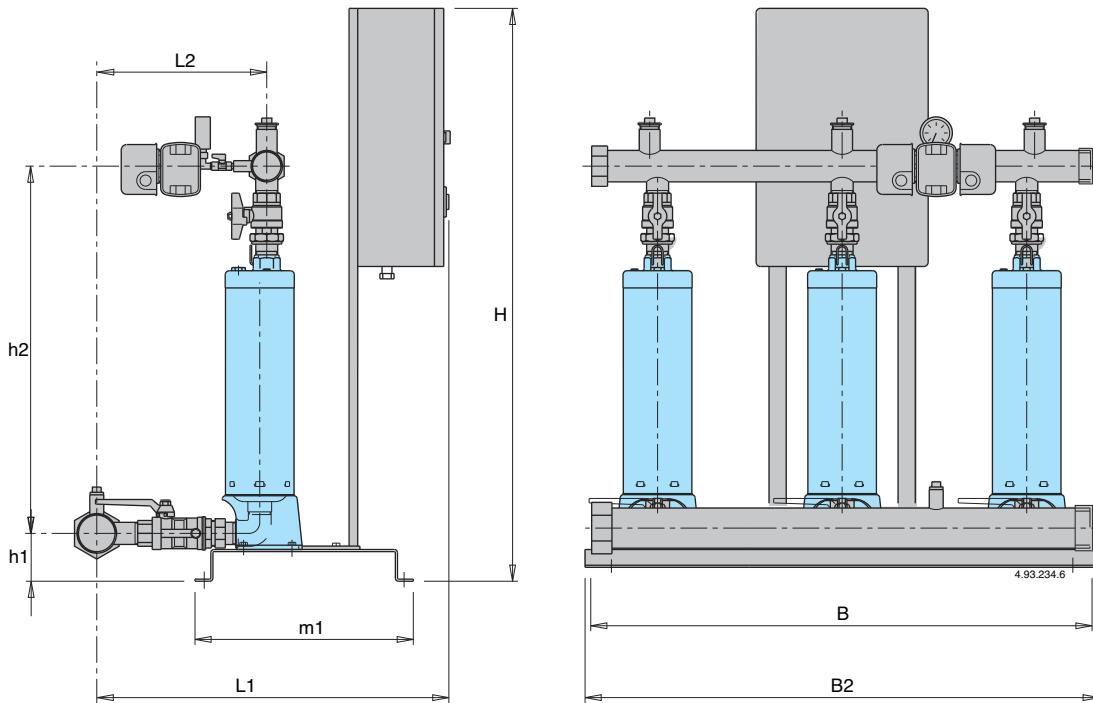
When installing the unit, connect in the delivery section to a diaphragm or galvanised tank.

The recommended sizes are shown in the following page.

Coverage chart



Dimensions and weights



TYPE	DN1	DN2	mm								kg
			H	h1	h2	L1	L2	m1	B	B2	
BS.. 3MXSU 204			657								85
BS.. 3MXSU 205	G 2 1/2	G 2	681								88
BS.. 3MXSU 206			705								91
BS.. 3MXSU 404	G 2 1/2	G 2	657								88
BS.. 3MXSU 405			681								89
BS.. 3MXSU 803	G 2 1/2	G 2	690								88
BS.. 3MXSU 804			690								96

Performance

BS3F

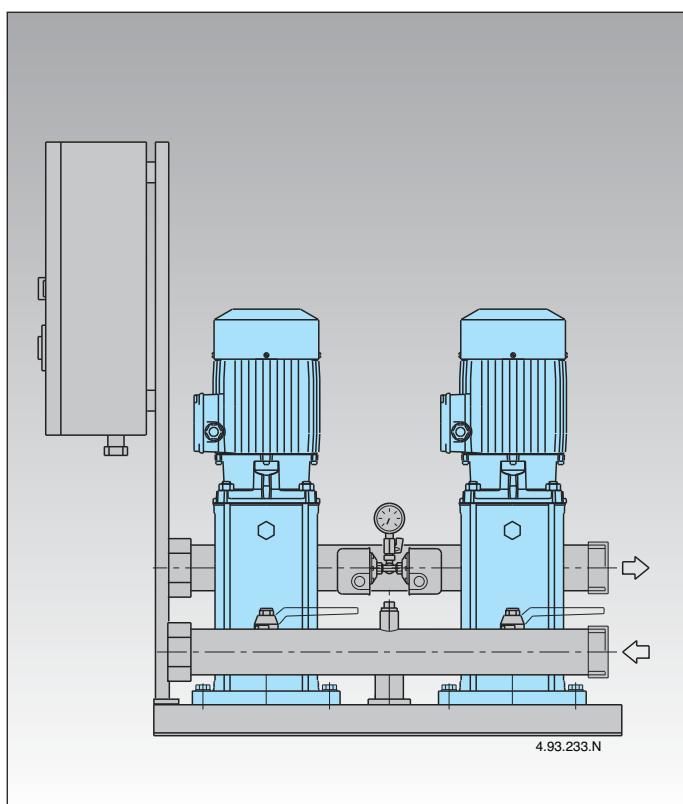
Mains: 400V 3~ Motor: 400V 3~	Motor		Pres. switch	Pres. switch	Pres. switch	Average capacity		Maximum capacity		Membrane V.	Vessel
	kW	HP	bar	bar	bar	Q l/min	H m	Q l/min	H m	litre	litre
BS3F 3MXSU 204	0,5+0,5+0,5	0,75+0,75+0,75	3,0÷4,0	2,5÷3,5	2,0÷3,0	146	32	215	20	40	100
BS3F 3MXSU 205	0,75+0,75+0,75	1+1+1	4,0÷5,0	3,5÷4,5	3,0÷4,0	125	41	180	30	40	100
BS3F 3MXSU 206	0,9+0,9+0,9	1,2+1,2+1,2	4,5÷6,0	4,0÷5,5	3,5÷5,0	132	50	190	35	40	100
BS3F 3MXSU 404	0,9+0,9+0,9	1,2+1,2+1,2	2,5÷4,0	2,0÷3,5	1,5÷3,0	268	29	390	15	60	100
BS3F 3MXSU 405	1,1+1,1+1,1	1,5+1,5+1,5	3,3÷4,8	2,8÷4,3	2,3÷3,8	268	36	355	23	80	200
BS3F 3MXSU 803	1,1+1,1+1,1	1,5+1,5+1,5	2,2÷3,0	1,8÷2,7	1,5÷2,4	400	25	550	15	100	200
BS3F 3MXSU 804	1,5+1,5+1,5	2+2+2	3,0÷4,0	2,6÷3,7	2,2÷3,4	375	35	550	22	200	300

BS1V2F

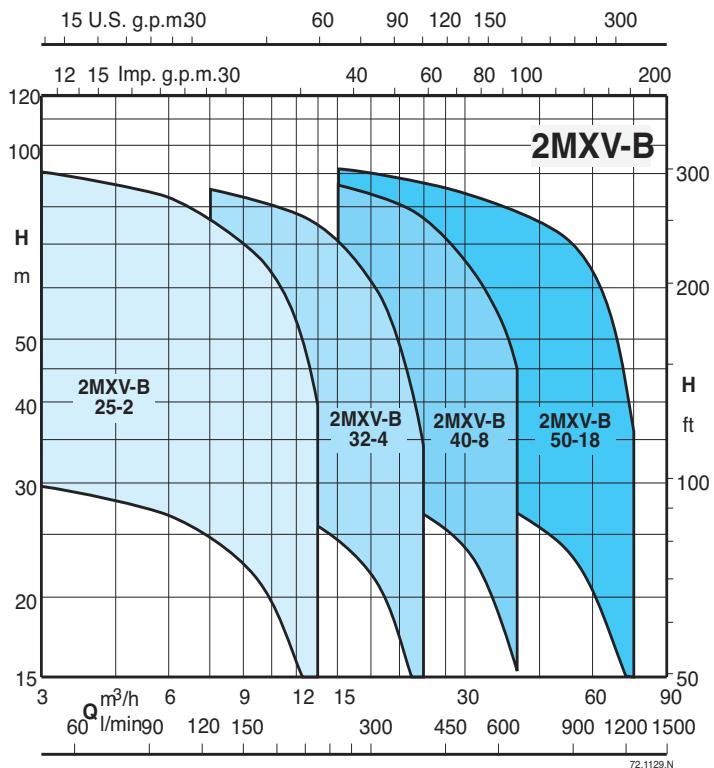
Mains: 400V 3~ Motor: 400V 3~	Motor		Vessel
	kW	HP	Membrane litre
BS1V2F 3MXSU 204	0,55 x3	0,75 x3	24x3
BS1V2F 3MXSU 205	0,75 x3	1 x3	24x3
BS1V2F 3MXSU 206	0,9 x3	1,2 x3	24x3
BS1V2F 3MXSU 404	0,9 x3	1,2 x3	24x3
BS1V2F 3MXSU 405	1,1 x3	1,5 x3	24x3
BS1V2F 3MXSU 803	1,1 x3	1,5 x3	24x3
BS1V2F 3MXSU 804	1,5 x3	2 x3	24x3

BS3V

Mains: 400V 3~ Motor: 400V 3~	Motor		Vessel
	kW	HP	Membrane litre
BS3V 3MXSU 204	0,55 x3	0,75 x3	24x3
BS3V 3MXSU 205	0,75 x3	1 x3	24x3
BS3V 3MXSU 206	0,9 x3	1,2 x3	24x3
BS3V 3MXSU 404	0,9 x3	1,2 x3	24x3
BS3V 3MXSU 405	1,1 x3	1,5 x3	24x3
BS3V 3MXSU 803	1,1 x3	1,5 x3	24x3
BS3V 3MXSU 804	1,5 x3	2 x3	24x3



Coverage chart



Construction

Automatic pressure boosting plant consisting of two vertical multi-stage close coupled pumps complete with ball, non return valve on the suction side and ball valves on the discharge side.

Suction and delivery manifolds are in AISI 304.

Connections are located on the delivery manifold for the installation of two 20 litres cylindrical vessels (for 2MXV-B 25-32-40).

Connections are located on the delivery manifold for the installation of one 20 litres cylindrical vessel (for 2MXV-B 50).

Electrical control boards:

- with microprocessor for fixed speed pump units (see page 386).
- with frequency converter for variable speed pump units (see page 387).

The unit includes one pressure gauge and two adjustable differential pressure switches.

Operation

BS 2F Fixed speed pump

Depending on the reduction of the pressure in the system, the pressure switches determine the starting up of the pumps in sequence and the microprocessor alternates the starts.

BS1V1F Pumps at variable speed with one frequency converter

According to the water consumption, one or more pumps start, one at variable speed and the others at fixed speed, to grant the water quantity required at the set pressure.

BS2V Pumps at variable speed with two frequency converter

Depending on water consumption, one or more pumps are activated, all at variable speed, in order to guarantee the quantity of water required at the set pressure.

Applications

To supply water in civil and industrial buildings.

As pressure boosting pump to increase water pressure when needed (follow local rules).

Motors

2-pole induction motors, 50 Hz, $n = 2900$ rpm

- Three-phase 230/400V $\pm 10\%$, suitable for operation with frequency converter.
- Single-phase 230V $\pm 10\%$ (up to 2,2 kW).

Insulation class F.

Protection IP 54.

Constructed in accordance with: IEC 60034.

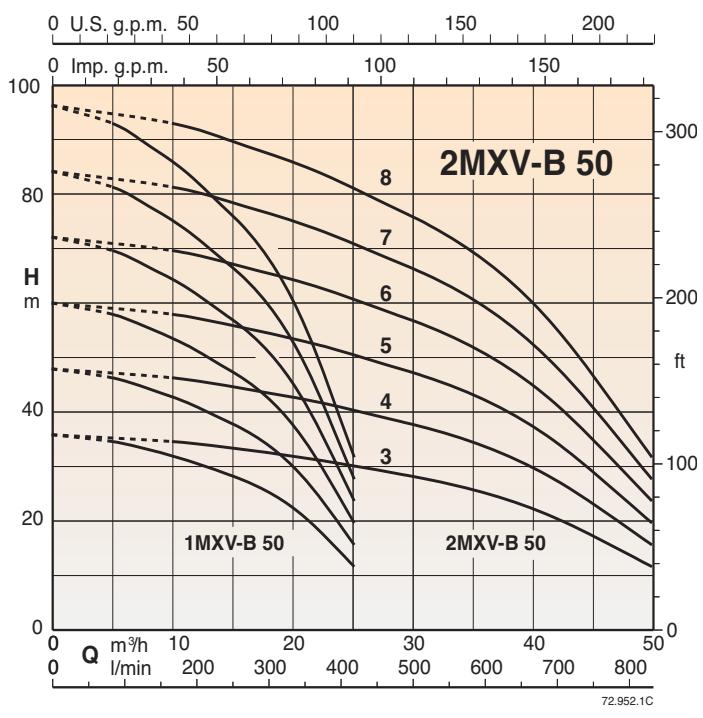
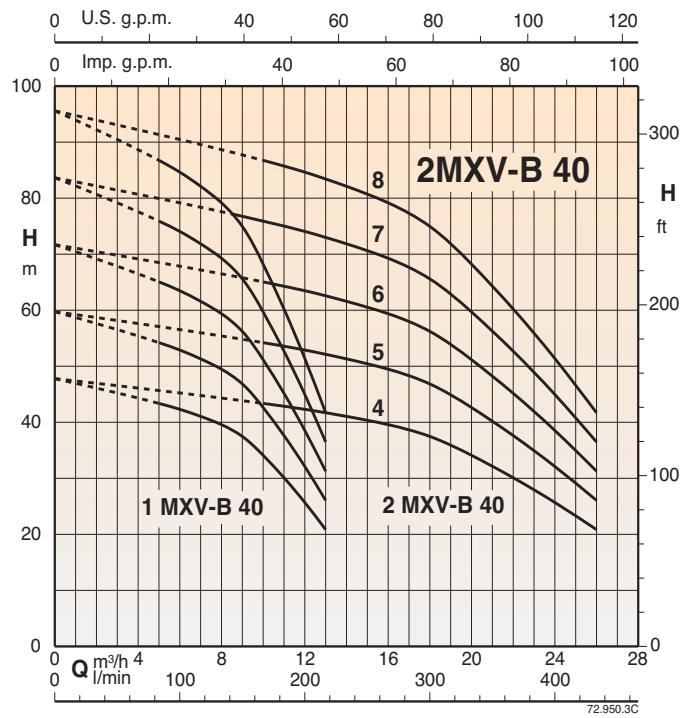
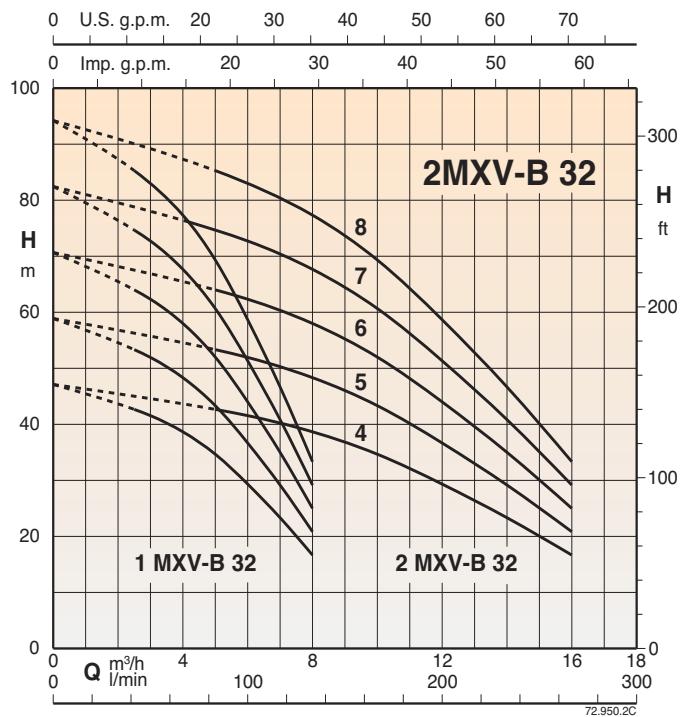
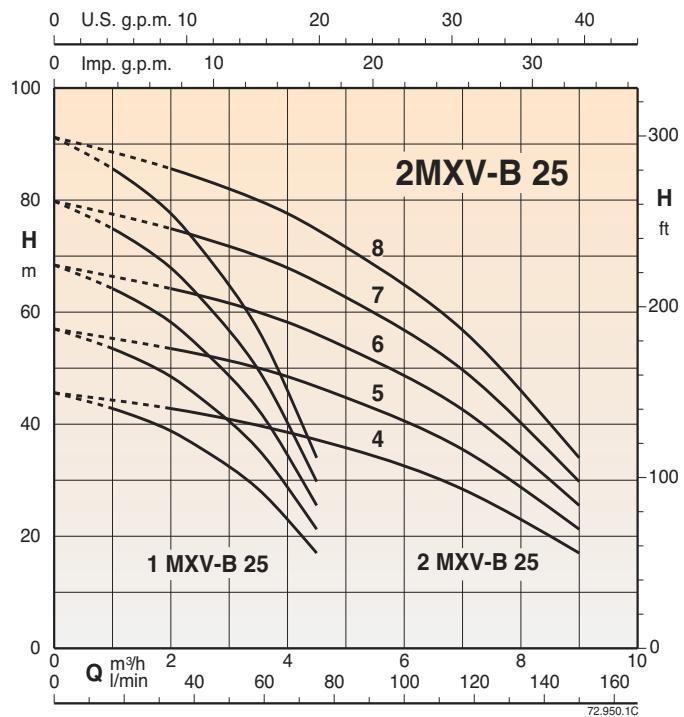
Other voltages and frequencies on request.

Vessels

When installing the unit, connect in the delivery section to a diaphragm or galvanised tank.

The recommended sizes are shown in the following page.

Coverage chart



Performance

BS2F

BSM2F

Mains: 400V 3~ Motor: 400V 3~	Mains: 230V 1~ Motor: 230V 1~	Motor		Pres. switch bar	Pres. switch bar	Average capacity		Maximum capacity		Membrane V. litre	Vessel litre
		kW	HP			Q l/min	H m	Q l/min	H m		
BS2F 2MXV-B 25-204	BSM2F 2MXV-BM 25-204	0,75+0,75	1+1	2,5÷4,0	2,2÷3,7	106	31	135	22	40	100
BS2F 2MXV-B 25-205	BSM2F 2MXV-BM 25-205	0,75+0,75	1+1	3,5÷5,0	3,0÷4,5	103	40	133	30	50	300
BS2F 2MXV-B 25-206	BSM2F 2MXV-BM 25-206	1,1+1,1	1,5+1,5	4,5÷6,0	4,0÷5,5	95	50	125	40	50	300
BS2F 2MXV-B 25-207	BSM2F 2MXV-BM 25-207	1,1+1,1	1,5+1,5	5,5÷7,0	5,0÷6,5	92	60	115	50	60	300
BS2F 2MXV-B 25-208	BSM2F 2MXV-BM 25-208	1,5+1,5	2+2	6,5÷8,0	6,0÷7,5	86	70	110	60	80	500
BS2F 2MXV-B 32-404	BSM2F 2MXV-BM 32-404	1,1+1,1	1,5+1,5	2,5÷4,0	2,2÷3,7	190	31	245	22	100	200
BS2F 2MXV-B 32-405	BSM2F 2MXV-BM 32-405	1,1+1,1	1,5+1,5	3,5÷5,0	3,0÷4,5	186	40	235	30	100	300
BS2F 2MXV-B 32-406	BSM2F 2MXV-BM 32-406	1,5+1,5	2+2	4,5÷6,0	4,0÷5,5	180	50	215	40	100	300
BS2F 2MXV-B 32-407	BSM2F 2MXV-BM 32-407	1,5+1,5	2+2	5,5÷7,0	5,0÷6,5	170	60	210	50	200	300
BS2F 2MXV-B 32-408				2,2+2,2	3+3	6,5÷8,0	6,0÷7,5	165	70	195	60
BS2F 2MXV-B 40-804	BSM2F 2MXV-BM 40-804	1,5+1,5	2+2	2,5÷4,0	2,2÷3,7	356	31	420	22	200	300
BS2F 2MXV-B 40-805		2,2+2,2	3+3	3,5÷5,0	3,0÷4,5	350	40	410	30	300	500
BS2F 2MXV-B 40-806		2,2+2,2	3+3	4,5÷6,0	4,0÷5,5	340	50	390	40	300	500
BS2F 2MXV-B 40-807		3+3	4+4	5,5÷7,0	5,0÷6,5	330	60	380	50	300	500
BS2F 2MXV-B 40-808		3+3	4+4	6,5÷8,0	6,0÷7,5	325	70	365	60	300	500
BS2F 2MXV-B 50-1803		2,2+2,2	3+3	1,8÷3,0	1,5÷2,7	660	22	780	15	500	800
BS2F 2MXV-B 50-1804		3+3	4+4	2,5÷4,0	2,2÷3,7	650	31	750	22	500	800
BS2F 2MXV-B 50-1805		3,7+3,7	5+5	3,5÷5,0	3,0÷4,5	640	40	750	30	500	800
BS2F 2MXV-B 50-1806		4+4	5,5+5,5	4,5÷6,0	4,0÷5,5	610	50	720	40	500	1000
BS2F 2MXV-B 50-1807		5,5+5,5	7,5+7,5	5,5÷7,0	5,0÷6,5	590	60	700	50	500	1000
BS2F 2MXV-B 50-1808		5,5+5,5	7,5+7,5	6,5÷8,0	6,0÷7,5	560	70	670	60	500	1000

BS1V1F

BSM1V1F

Mains: 400V 3~ Motor: 400V 3~	Mains: 230V 1~ (1)	Motor		Vessel Membrane litre
		kW	HP	
BS1V1F 2MXV-B 25-204	BSM1V1F 2MXV-B 25-204	0,75 x2	1 x2	24x2
BS1V1F 2MXV-B 25-205	BSM1V1F 2MXV-B 25-205	0,75 x2	1 x2	24x2
BS1V1F 2MXV-B 25-206	BSM1V1F 2MXV-B 25-206	1,1 x2	1,5 x2	24x2
BS1V1F 2MXV-B 25-207	BSM1V1F 2MXV-B 25-207	1,1 x2	1,5 x2	24x2
BS1V1F 2MXV-B 25-208	BSM1V1F 2MXV-B 25-208	1,5 x2	2 x2	24x2
BS1V1F 2MXV-B 32-404	BSM1V1F 2MXV-B 32-404	1,1 x2	1,5 x2	24x2
BS1V1F 2MXV-B 32-405	BSM1V1F 2MXV-B 32-405	1,1 x2	1,5 x2	24x2
BS1V1F 2MXV-B 32-406	BSM1V1F 2MXV-B 32-406	1,5 x2	2 x2	24x2
BS1V1F 2MXV-B 32-407	BSM1V1F 2MXV-B 32-407	1,5 x2	2 x2	24x2
BS1V1F 2MXV-B 32-408		2,2 x2	3 x2	24x2
BS1V1F 2MXV-B 40-804	BSM1V1F 2MXV-B 40-804	1,5 x2	2 x2	24x2
BS1V1F 2MXV-B 40-805		2,2 x2	3 x2	24x2
BS1V1F 2MXV-B 40-806		2,2 x2	3 x2	24x2
BS1V1F 2MXV-B 40-807		3 x2	4 x2	24x2
BS1V1F 2MXV-B 40-808		3 x2	4 x2	24x2
BS1V1F 2MXV-B 50-1803		2,2 x2	3 x2	24x1
BS1V1F 2MXV-B 50-1804		3 x2	4 x2	24x1
BS1V1F 2MXV-B 50-1805		3,7 x2	5 x2	24x1
BS1V1F 2MXV-B 50-1806		4 x2	5,5 x2	24x1
BS1V1F 2MXV-B 50-1807		5,5 x2	7,5 x2	24x1
BS1V1F 2MXV-B 50-1808		5,5 x2	7,5 x2	24x1

(1) SYSTEMS WITH:

1 variable speed pump three-phase motor
1 fixed speed pump single-phase motor
Power supply to control panel 230 V single-phase

BS2V

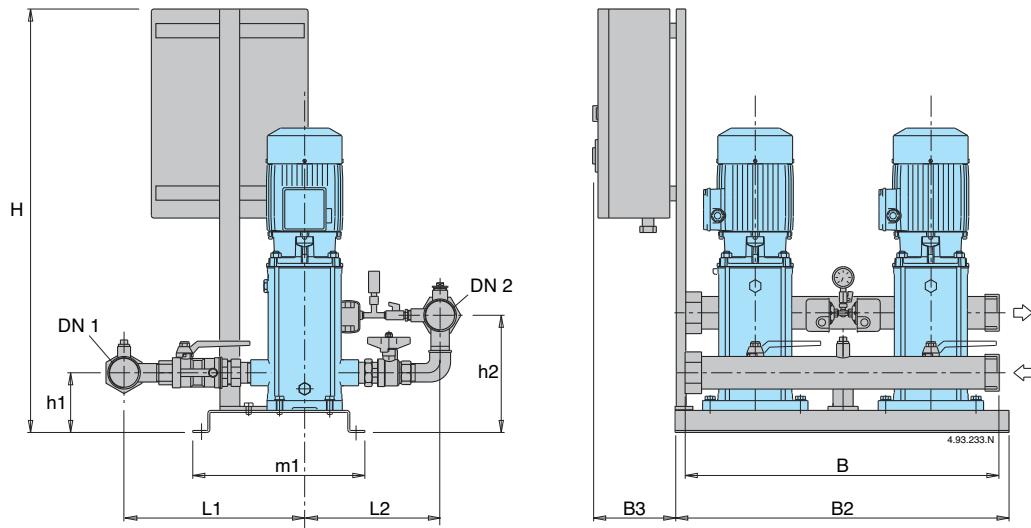
BSM2V

Mains: 400V 3~ Motor: 400V 3~	Mains: 230V 1~ (1)	Motor		Vessel Membrane litre
		kW	HP	
BS2V 2MXV-B 25-204	BSM2V 2MXV-B 25-204	0,75 x2	1 x2	24x2
BS2V 2MXV-B 25-205	BSM2V 2MXV-B 25-205	0,75 x2	1 x2	24x2
BS2V 2MXV-B 25-206	BSM2V 2MXV-B 25-206	1,1 x2	1,5 x2	24x2
BS2V 2MXV-B 25-207	BSM2V 2MXV-B 25-207	1,1 x2	1,5 x2	24x2
BS2V 2MXV-B 25-208	BSM2V 2MXV-B 25-208	1,5 x2	2 x2	24x2
BS2V 2MXV-B 32-404	BSM2V 2MXV-B 32-404	1,1 x2	1,5 x2	24x2
BS2V 2MXV-B 32-405	BSM2V 2MXV-B 32-405	1,1 x2	1,5 x2	24x2
BS2V 2MXV-B 32-406	BSM2V 2MXV-B 32-406	1,5 x2	2 x2	24x2
BS2V 2MXV-B 32-407	BSM2V 2MXV-B 32-407	1,5 x2	2 x2	24x2
BS2V 2MXV-B 32-408		2,2 x2	3 x2	24x2
BS2V 2MXV-B 40-804	BSM2V 2MXV-B 40-804	1,5 x2	2 x2	24x2
BS2V 2MXV-B 40-805		2,2 x2	3 x2	24x2
BS2V 2MXV-B 40-806		2,2 x2	3 x2	24x2
BS2V 2MXV-B 40-807		3 x2	4 x2	24x2
BS2V 2MXV-B 40-808		3 x2	4 x2	24x2
BS2V 2MXV-B 50-1803		2,2 x2	3 x2	24x1
BS2V 2MXV-B 50-1804		3 x2	4 x2	24x1
BS2V 2MXV-B 50-1805		3,7 x2	5 x2	24x1
BS2V 2MXV-B 50-1806		4 x2	5,5 x2	24x1
BS2V 2MXV-B 50-1807		5,5 x2	7,5 x2	24x1
BS2V 2MXV-B 50-1808		5,5 x2	7,5 x2	24x1

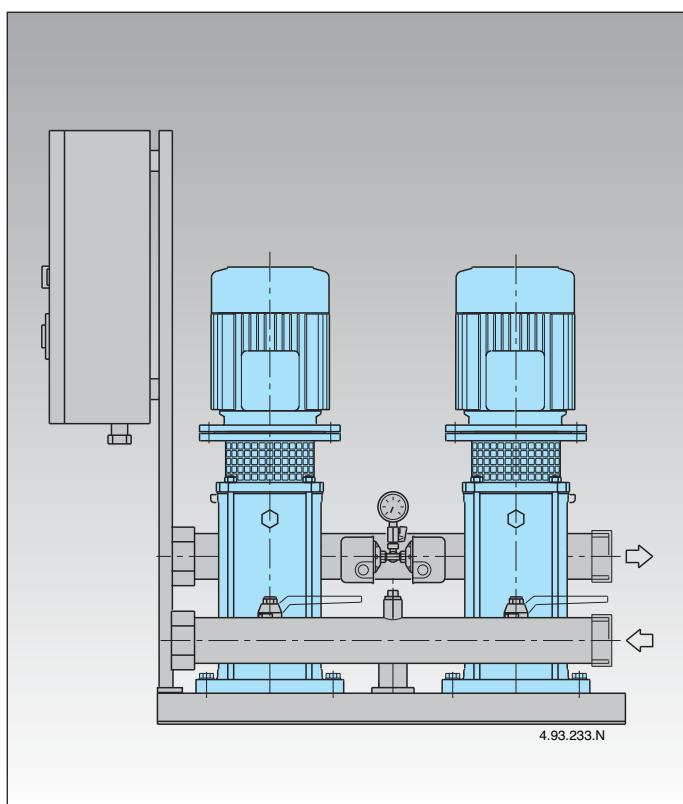
(1) Three-phase motor 230 V.

Power supply to control panel: - 230 V three-phase
- 230 V single-phase

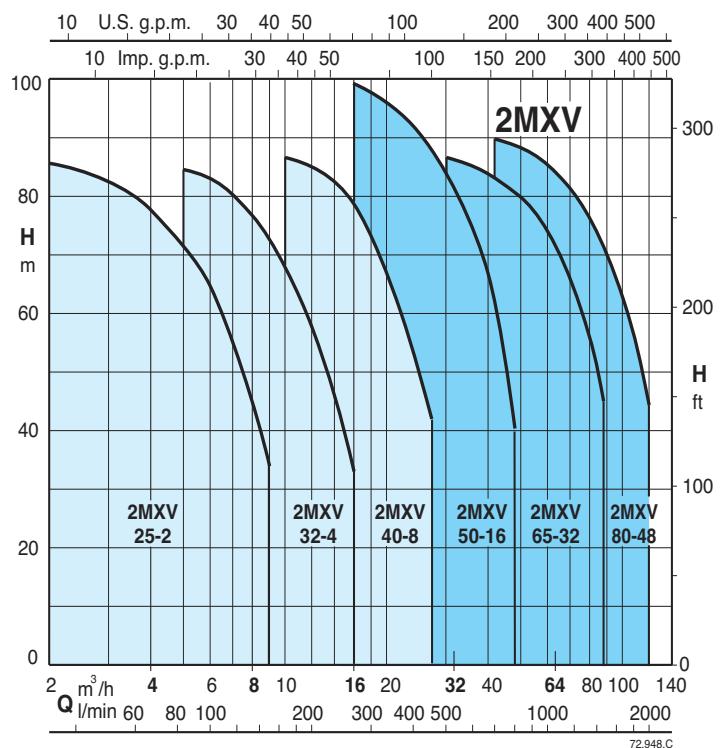
Frequency converter output is always 230 V three-phase.

Dimensions and weights


TYPE		DN1	DN2	mm									kg
				H	h1	h2	L1	L2	m1	B	B2	B3	
BS.. 2MXV-B 25-204	BSM.. 2MXV-BM 25-204												105
BS.. 2MXV-B 25-205	BSM.. 2MXV-BM 25-205												107
BS.. 2MXV-B 25-206	BSM.. 2MXV-BM 25-206	G 1 1/2	G 1 1/2	860	119	218	331	254	365	600	625	160	109
BS.. 2MXV-B 25-207	BSM.. 2MXV-BM 25-207												111
BS.. 2MXV-B 25-208	BSM.. 2MXV-BM 25-208												118
BS.. 2MXV-B 32-404	BSM.. 2MXV-BM 32-404												108
BS.. 2MXV-B 32-405	BSM.. 2MXV-BM 32-405												111
BS.. 2MXV-B 32-406	BSM.. 2MXV-BM 32-406	G 2	G 2	860	119	225	360	270	365	600	625	160	115
BS.. 2MXV-B 32-407	BSM.. 2MXV-BM 32-407												118
BS.. 2MXV-B 32-408													121
BS.. 2MXV-B 40-804	BSM.. 2MXV-BM 40-804												116
BS.. 2MXV-B 40-805													119
BS.. 2MXV-B 40-806		G 2 1/2	G 2 1/2	860	124	245	445	350	365	600	625	160	121
BS.. 2MXV-B 40-807													143
BS.. 2MXV-B 40-808													145
BS.. 2MXV-B 50-1803													208
BS.. 2MXV-B 50-1804													228
BS.. 2MXV-B 50-1805													238
BS.. 2MXV-B 50-1806		G 3	G 3	906	215	215	495	405	550	700	950	160	240
BS.. 2MXV-B 50-1807													262
BS.. 2MXV-B 50-1808													264



Coverage chart



Construction

Automatic pressure boosting plant consisting of two vertical multi-stage pumps complete with ball, non return valve on the suction side and ball valves on the discharge side.

Suction and delivery manifolds are in AISI 304.

Connections are located on the delivery manifold for the installation of two 20 litres cylindrical vessels (for 2MXV 25-32-40).

Connections are located on the delivery manifold for the installation of one 20 litres cylindrical vessel (for 2MXV 50-65-80).

Electrical control boards:

- with microprocessor for fixed speed pump units (see page 386). Motor starting is D.O.L. up to 5,5 kW and Y/Δ for power rating 7,5 up to 15 kW.
- with frequency converter for variable speed pump units (see page 387).

The unit includes one pressure gauge and two adjustable differential pressure switches.

Operation

BS 2F Fixed speed pump

Depending on the reduction of the pressure in the system, the pressure switches determine the starting up of the pumps in sequence and the microprocessor alternates the starts.

BS1V1F Pumps at variable speed with one frequency converter

According to the water consumption, one or more pumps start, one at variable speed and the others at fixed speed, to grant the water quantity required at the set pressure.

BS2V Pumps at variable speed with two frequency converter

Depending on water consumption, one or more pumps are activated, all at variable speed, in order to guarantee the quantity of water required at the set pressure.

Applications

To supply water in civil and industrial buildings.

As pressure boosting pump to increase water pressure when needed (follow local rules).

Motors

2-pole induction motors, 50 Hz, n = 2900 rpm

- Three-phase 230/400V ± 10% up to 3 kW, suitable for operation with frequency converter;
400/690V ± 10% from 4 to 15 kW, suitable for operation with frequency converter.

- Single-phase 230V ± 10% (up to 2,2 kW).

Insulation class F.

Protection IP 55.

Constructed in accordance with: IEC 60034.

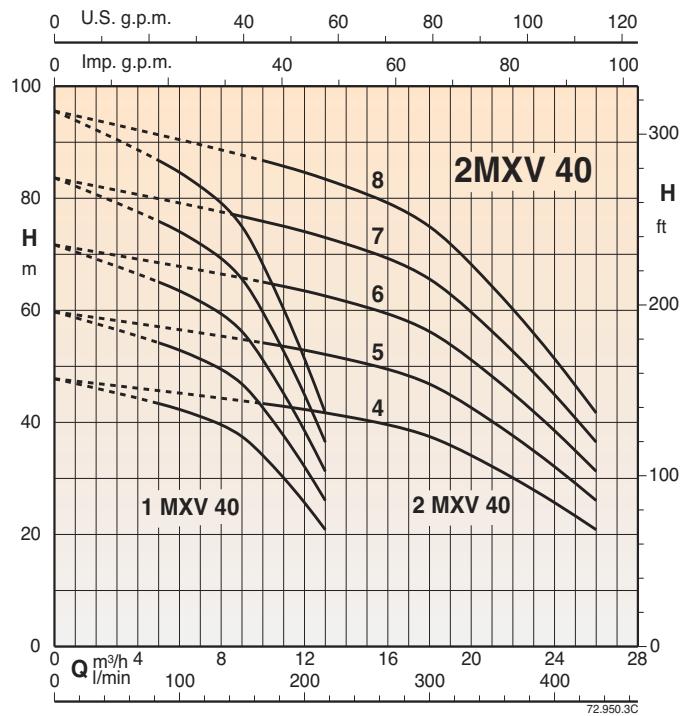
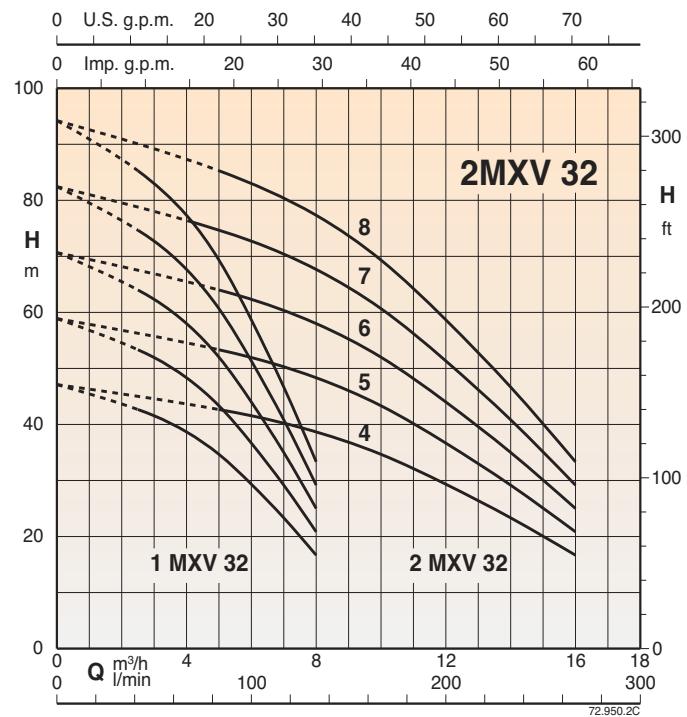
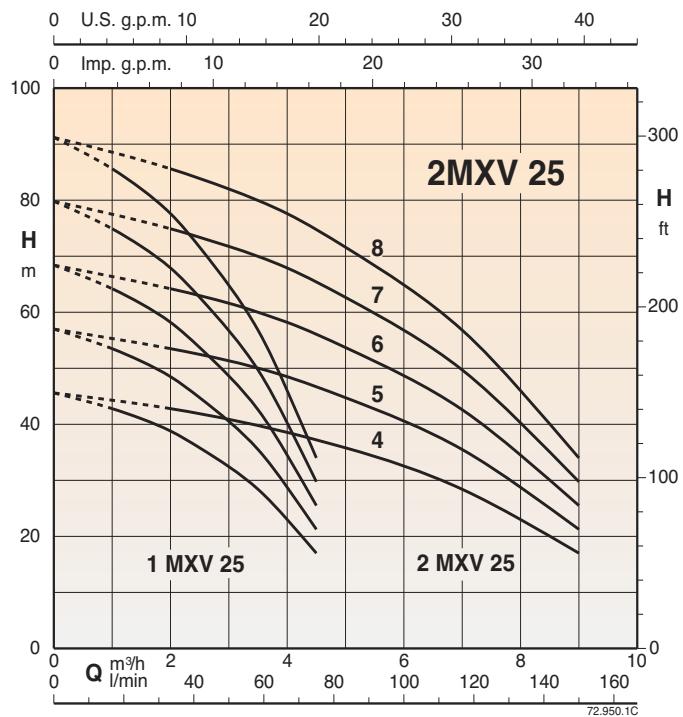
Other voltages and frequencies on request.

Vessels

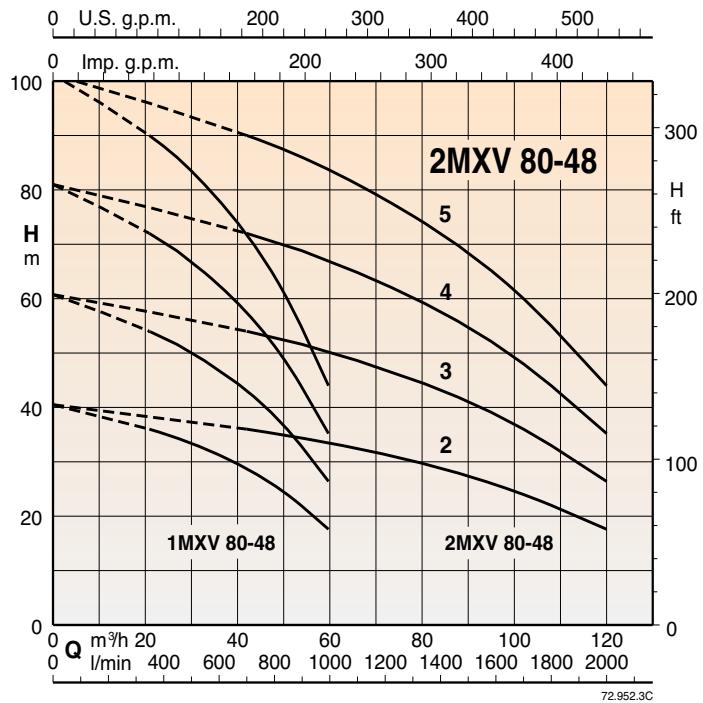
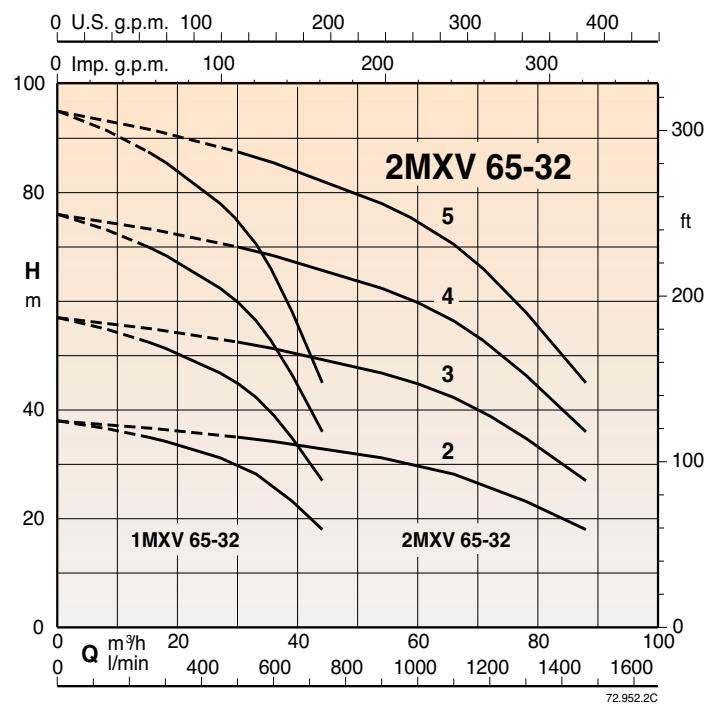
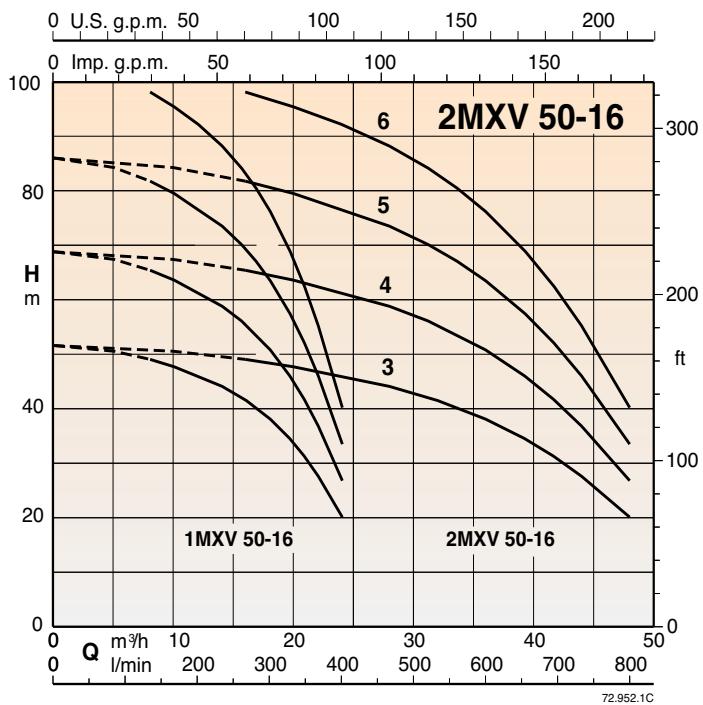
When installing the unit, connect in the delivery section to a diaphragm or galvanised tank.

The recommended sizes are shown in the following page.

Coverage chart



Coverage chart



Performance
BS2F BSM2F

Mains: 400V 3~ Motor: 400V 3~	Mains: 230V 1~ Motor: 230V 1~	Motor		Pres. switch bar	Pres. switch bar	Average capacity		Maximum capacity		Membrane V. litre	Vessel litre
		kW	HP			Q l/min	H m	Q l/min	H m		
BS2F 2MXV 25-204	BSM2F 2MXV 25-204M	0,75+0,75	1+1	2,5÷4,0	2,2÷3,7	106	31	135	22	40	100
BS2F 2MXV 25-205	BSM2F 2MXV 25-205M	0,75+0,75	1+1	3,5÷5,0	3,0÷4,5	103	40	133	30	50	300
BS2F 2MXV 25-206	BSM2F 2MXV 25-206M	1,1+1,1	1,5+1,5	4,5÷6,0	4,0÷5,5	95	50	125	40	50	300
BS2F 2MXV 25-207	BSM2F 2MXV 25-207M	1,1+1,1	1,5+1,5	5,5÷7,0	5,0÷6,5	92	60	115	50	60	300
BS2F 2MXV 25-208	BSM2F 2MXV 25-208M	1,5+1,5	2+2	6,5÷8,0	6,0÷7,5	86	70	110	60	80	500
BS2F 2MXV 32-404	BSM2F 2MXV 32-404M	1,1+1,1	1,5+1,5	2,5÷4,0	2,2÷3,7	190	31	245	22	100	200
BS2F 2MXV 32-405	BSM2F 2MXV 32-405M	1,1+1,1	1,5+1,5	3,5÷5,0	3,0÷4,5	186	40	235	30	100	300
BS2F 2MXV 32-406	BSM2F 2MXV 32-406M	1,5+1,5	2+2	4,5÷6,0	4,0÷5,5	180	50	215	40	100	300
BS2F 2MXV 32-407	BSM2F 2MXV 32-407M	1,5+1,5	2+2	5,5÷7,0	5,0÷6,5	170	60	210	50	200	300
BS2F 2MXV 32-408		2,2+2,2	3+3	6,5÷8,0	6,0÷7,5	165	70	195	60	200	500
BS2F 2MXV 40-804	BSM2F 2MXV 40-804M	1,5+1,5	2+2	2,5÷4,0	2,2÷3,7	356	31	420	22	200	300
BS2F 2MXV 40-805		2,2+2,2	3+3	3,5÷5,0	3,0÷4,5	350	40	410	30	300	500
BS2F 2MXV 40-806		2,2+2,2	3+3	4,5÷6,0	4,0÷5,5	340	50	390	40	300	500
BS2F 2MXV 40-807		3+3	4+4	5,5÷7,0	5,0÷6,5	330	60	380	50	300	500
BS2F 2MXV 40-808		3+3	4+4	6,5÷8,0	6,0÷7,5	325	70	365	60	300	500
BS2F 2MXV 50-1603		3+3	4+4	3,0÷4,5	2,5÷4,0	600	39	750	25	500	800
BS2F 2MXV 50-1604		4+4	5,5+5,5	4,5÷6,0	4,0÷5,5	565	51	710	40	500	1000
BS2F 2MXV 50-1605		5,5+5,5	7,5+7,5	6,0÷7,5	5,5÷7,0	555	70	680	55	-	1000
BS2F 2MXV 50-1606		5,5+5,5	7,5+7,5	7,5÷9,0	7,0÷8,5	540	83	640	70	-	1500
BS2F 2MXV 65-3202		4+4	5,5+5,5	2,2÷3,4	1,8÷3,0	1080	28	1460	18	-	1500
BS2F 2MXV 65-3203		5,5+5,5	7,5+7,5	3,5÷5,0	3,0÷4,5	1050	43	1400	30	-	1500
BS2F 2MXV 65-3204		7,5+7,5	10+10	5,0÷6,5	4,5÷6,0	1050	58	1300	45	-	2000
BS2F 2MXV 65-3205		11+11	15+15	6,5÷8,0	6,0÷7,5	1030	73	1270	60	-	3000
BS2F 2MXV 80-4802		5,5+5,5	7,5+7,5	2,3÷3,5	1,8÷3,0	1350	30	2000	18	-	2000
BS2F 2MXV 80-4803		7,5+7,5	10+10	3,5÷5,0	3,0÷4,5	1400	43	1900	30	-	3000
BS2F 2MXV 80-4804		11+11	15+15	5,0÷6,5	4,5÷6,0	1400	58	1800	45	-	4000
BS2F 2MXV 80-4805		15+15	20+20	6,5÷8,0	6,0÷7,5	1400	72	1700	60	-	5000

BS1V1F BSM1V1F

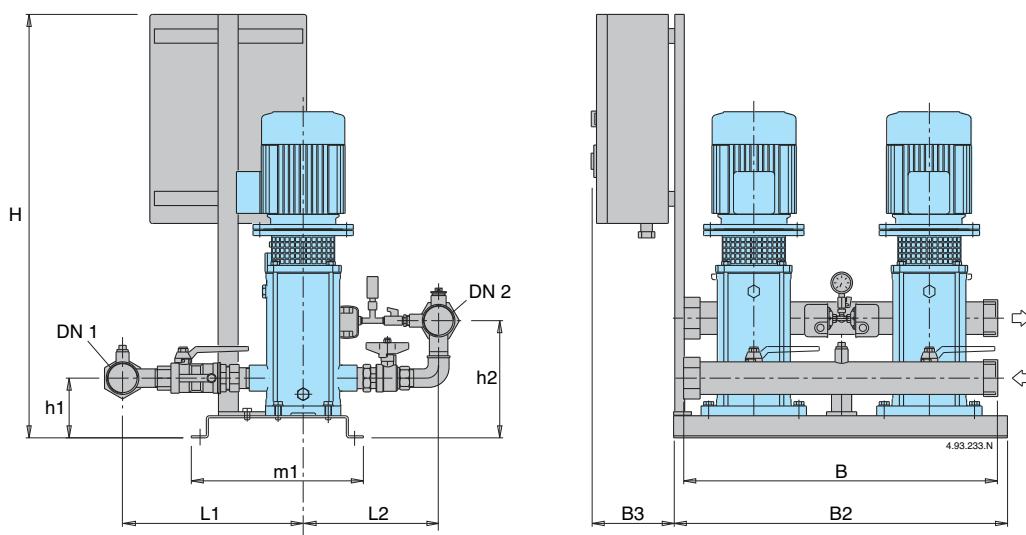
Mains: 400V 3~ Motor: 400V 3~	Mains: 230V 1~ (1)	Motor		Vessel Membrane litri
		kW	HP	
BS1V1F 2MXV 25-204	BSM1V1F 2MXV 25-204	0,75 x2	1 x2	24x2
BS1V1F 2MXV 25-205	BSM1V1F 2MXV 25-205	0,75 x2	1 x2	24x2
BS1V1F 2MXV 25-206	BSM1V1F 2MXV 25-206	1,1 x2	1,5 x2	24x2
BS1V1F 2MXV 25-207	BSM1V1F 2MXV 25-207	1,1 x2	1,5 x2	24x2
BS1V1F 2MXV 25-208	BSM1V1F 2MXV 25-208	1,5 x2	2 x2	24x2
BS1V1F 2MXV 32-404	BSM1V1F 2MXV 32-404	1,1 x2	1,5 x2	24x2
BS1V1F 2MXV 32-405	BSM1V1F 2MXV 32-405	1,1 x2	1,5 x2	24x2
BS1V1F 2MXV 32-406	BSM1V1F 2MXV 32-406	1,5 x2	2 x2	24x2
BS1V1F 2MXV 32-407	BSM1V1F 2MXV 32-407	1,5 x2	2 x2	24x2
BS1V1F 2MXV 32-408		2,2 x2	3 x2	24x2
BS1V1F 2MXV 40-804	BSM1V1F 2MXV 40-804	1,5 x2	2 x2	24x2
BS1V1F 2MXV 40-805		2,2 x2	3 x2	24x2
BS1V1F 2MXV 40-806		2,2 x2	3 x2	24x2
BS1V1F 2MXV 40-807		3 x2	4 x2	24x2
BS1V1F 2MXV 40-808		3 x2	4 x2	24x2
BS1V1F 2MXV 50-1603		3 x2	4 x2	24x1
BS1V1F 2MXV 50-1604		4 x2	5,5 x2	24x1
BS1V1F 2MXV 50-1605		5,5 x2	7,5 x2	24x1
BS1V1F 2MXV 50-1606		5,5 x2	7,5 x2	24x1
BS1V1F 2MXV 65-3202		4 x2	5,5 x2	24x1
BS1V1F 2MXV 65-3203		5,5 x2	7,5 x2	24x1
BS1V1F 2MXV 65-3204		7,5 x2	10 x2	24x1
BS1V1F 2MXV 65-3205		11 x2	15 x2	24x1
BS1V1F 2MXV 80-4802		5,5 x2	7,5 x2	24x1
BS1V1F 2MXV 80-4803		7,5 x2	10 x2	24x1
BS1V1F 2MXV 80-4804		11 x2	15 x2	24x1
BS1V1F 2MXV 80-4805		15 x2	20 x2	24x1

(1) SYSTEMS WITH:
 1 variable speed pump three-phase motor
 1 fixed speed pump single-phase motor
 Power supply to control panel
 230 V single-phase

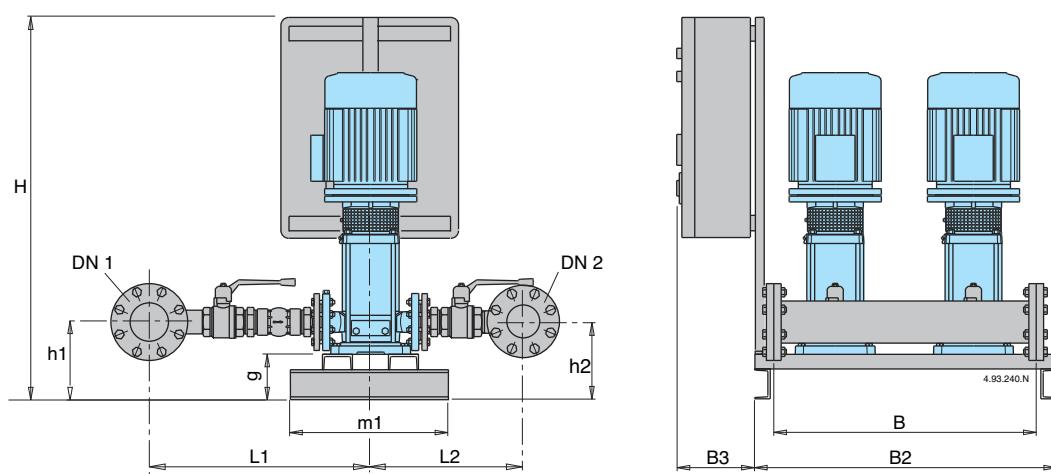
BS2V BSM2V

Mains: 400V 3~ Motor: 400V 3~	Mains: 230V 1~ (1)	Motor		Vessel Membrane litri
		kW	HP	
BS2V 2MXV 25-204	BSM2V 2MXV 25-204	0,75 x2	1 x2	24x2
BS2V 2MXV 25-205	BSM2V 2MXV 25-205	0,75 x2	1 x2	24x2
BS2V 2MXV 25-206	BSM2V 2MXV 25-206	1,1 x2	1,5 x2	24x2
BS2V 2MXV 25-207	BSM2V 2MXV 25-207	1,1 x2	1,5 x2	24x2
BS2V 2MXV 25-208	BSM2V 2MXV 25-208	1,5 x2	2 x2	24x2
BS2V 2MXV 32-404	BSM2V 2MXV 32-404	1,1 x2	1,5 x2	24x2
BS2V 2MXV 32-405	BSM2V 2MXV 32-405	1,1 x2	1,5 x2	24x2
BS2V 2MXV 32-406	BSM2V 2MXV 32-406	1,5 x2	2 x2	24x2
BS2V 2MXV 32-407	BSM2V 2MXV 32-407	1,5 x2	2 x2	24x2
BS2V 2MXV 32-408	BSM2V 2MXV 32-408	2,2 x2	3 x2	24x2
BS2V 2MXV 40-804	BSM2V 2MXV 40-804	1,5 x2	2 x2	24x2
BS2V 2MXV 40-805		2,2 x2	3 x2	24x2
BS2V 2MXV 40-806		2,2 x2	3 x2	24x2
BS2V 2MXV 40-807		3 x2	4 x2	24x2
BS2V 2MXV 40-808		3 x2	4 x2	24x2
BS2V 2MXV 50-1603		3 x2	4 x2	24x1
BS2V 2MXV 50-1604		4 x2	5,5 x2	24x1
BS2V 2MXV 50-1605		5,5 x2	7,5 x2	24x1
BS2V 2MXV 50-1606		5,5 x2	7,5 x2	24x1
BS2V 2MXV 65-3202		4 x2	5,5 x2	24x1
BS2V 2MXV 65-3203		5,5 x2	7,5 x2	24x1
BS2V 2MXV 65-3204		7,5 x2	10 x2	24x1
BS2V 2MXV 65-3205		11 x2	15 x2	24x1
BS2V 2MXV 80-4802		5,5 x2	7,5 x2	24x1
BS2V 2MXV 80-4803		7,5 x2	10 x2	24x1
BS2V 2MXV 80-4804		11 x2	15 x2	24x1
BS2V 2MXV 80-4805		15 x2	20 x2	24x1

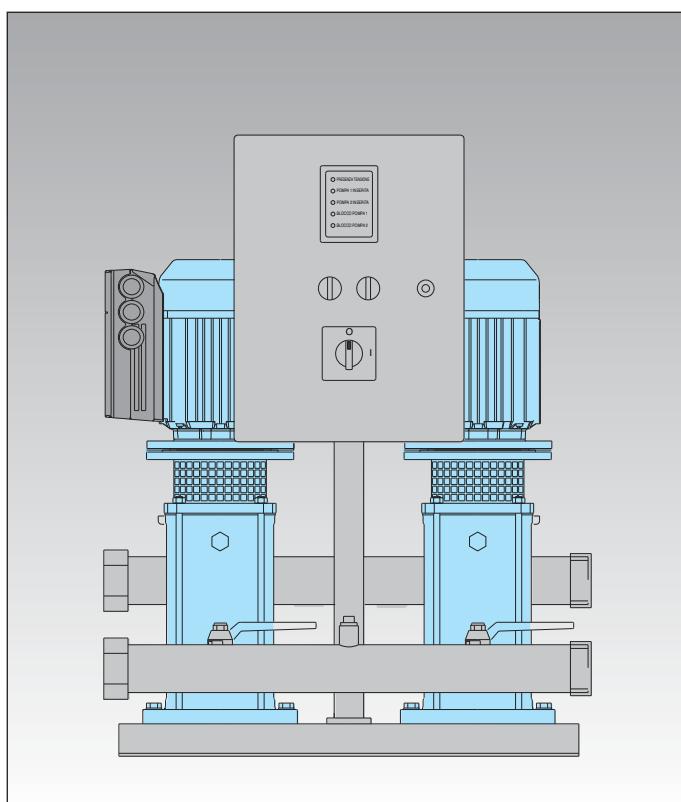
(1) Three-phase motor 230 V.
 Power supply to control panel:
 - 230 V three-phase
 - 230 V single-phase
 Frequency converter output is always 230 V three-phase.

Dimensions and weights


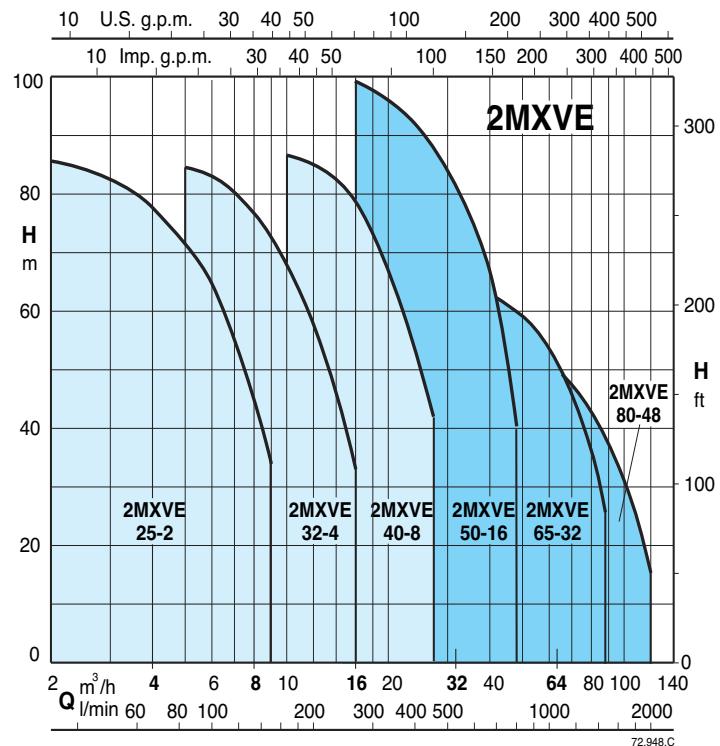
TYPE		DN1	DN2	mm									kg
				H	h1	h2	L1	L2	m1	B	B2	B3	
BS.. 2MXV 25-204	BS.. 2MXV 25-204M												110
BS.. 2MXV 25-205	BS.. 2MXV 25-205M												112
BS.. 2MXV 25-206	BS.. 2MXV 25-206M	G 1 1/2	G 1 1/2	860	119	218	331	254	365	600	625	160	114
BS.. 2MXV 25-207	BS.. 2MXV 25-207M												116
BS.. 2MXV 25-208	BS.. 2MXV 25-208M												126
BS.. 2MXV 32-404	BS.. 2MXV 32-404M												113
BS.. 2MXV 32-405	BS.. 2MXV 32-405M												115
BS.. 2MXV 32-406	BS.. 2MXV 32-406M	G 2	G 2	860	119	225	360	270	365	600	625	160	125
BS.. 2MXV 32-407	BS.. 2MXV 32-407M												127
BS.. 2MXV 32-408													137
BS.. 2MXV 40-804	BS.. 2MXV 40-804M												126
BS.. 2MXV 40-805													136
BS.. 2MXV 40-806													138
BS.. 2MXV 40-807													164
BS.. 2MXV 40-808													166



TYPE	DN1	DN2	mm									kg	
			H	h1	h2	L1	L2	B	B2	B3	m1		
BS.. 2MXV 50-1603													282
BS.. 2MXV 50-1604													298
BS.. 2MXV 50-1605													336
BS.. 2MXV 50-1606													340
BS.. 2MXV 65-3202													358
BS.. 2MXV 65-3203	100	100	1335	230	230	660	475	750	950				396
BS.. 2MXV 65-3204													420
BS.. 2MXV 65-3205													480
BS.. 2MXV 80-4802													408
BS.. 2MXV 80-4803	125	125	1335	230	230	725	495	750	950				432
BS.. 2MXV 80-4804													490
BS.. 2MXV 80-4805													520



Coverage chart



Construction

Automatic pressure boosting plant consisting of two vertical multi-stage pumps complete with ball, non return valve on the suction side and ball valves on the discharge side.

Suction and delivery manifolds are in AISI 304.

Connections are located on the delivery manifold for the installation of two 20 litres cylindrical vessels (for 2MXVE 25-32-40). Connections are located on the delivery manifold for the installation of one 20 litres cylindrical vessel (for 2MXVE 50-65-80).

Electrical control boards:

- with frequency converter for variable speed pump units (see page 387).

Operation

BS1V1F Pumps at variable speed with one frequency converter

According to the water consumption, one or more pumps start, one at variable speed and the others at fixed speed, to grant the water quantity required at the set pressure.

BS2V Pumps at variable speed with two frequency converter

Depending on water consumption, one or more pumps are activated, all at variable speed, in order to guarantee the quantity of water required at the set pressure.

Applications

To supply water in civil and industrial buildings.

As pressure boosting pump to increase water pressure when needed (follow local rules).

Motors

2-pole induction motors, 50 Hz, $n = 2900$ rpm

- Three-phase 230/400V $\pm 10\%$ up to 3 kW;
 $400/690V \pm 10\%$ from 4 to 15 kW.

Insulation class F.

Protection IP 55.

Constructed in accordance with: IEC 60034.

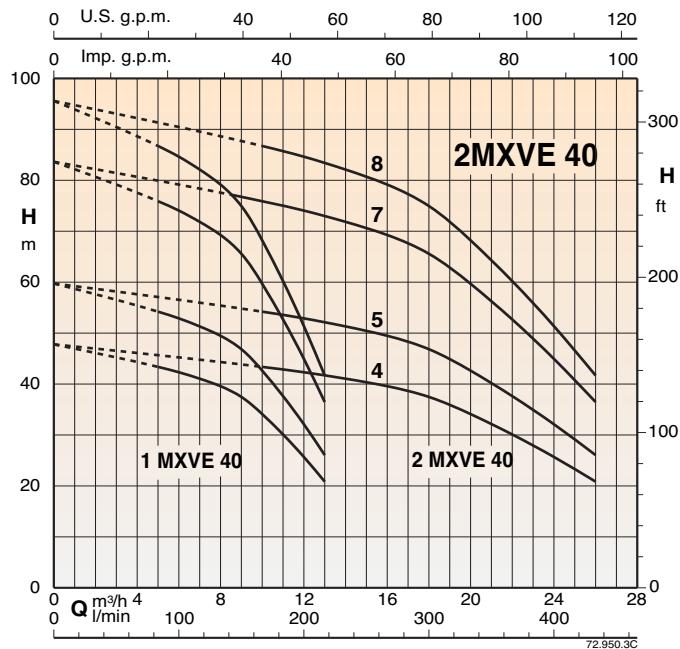
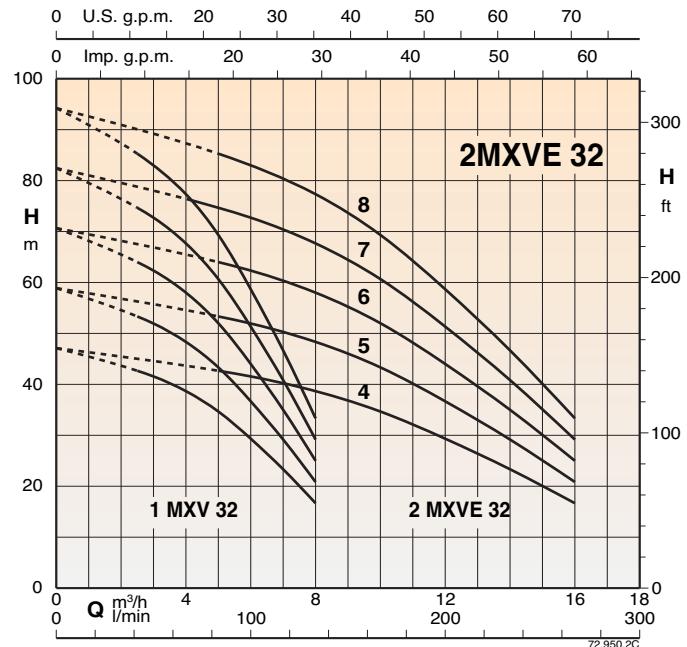
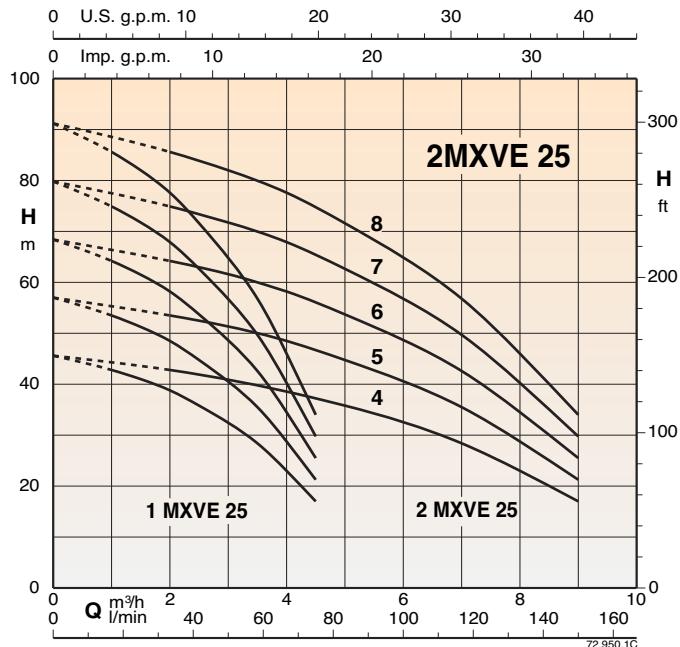
Other voltages and frequencies on request.

Vessels

When installing the unit, connect in the delivery section to a diaphragm.

The recommended sizes are shown in the following page.

Coverage chart



Performance

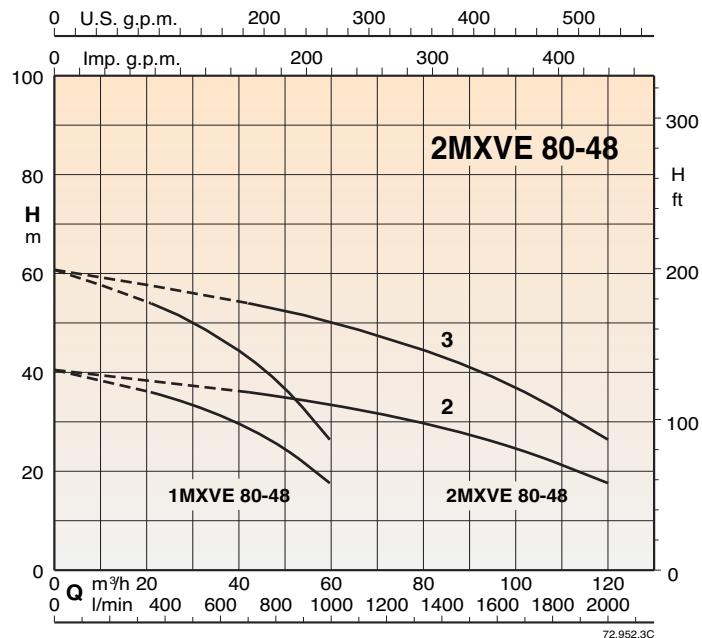
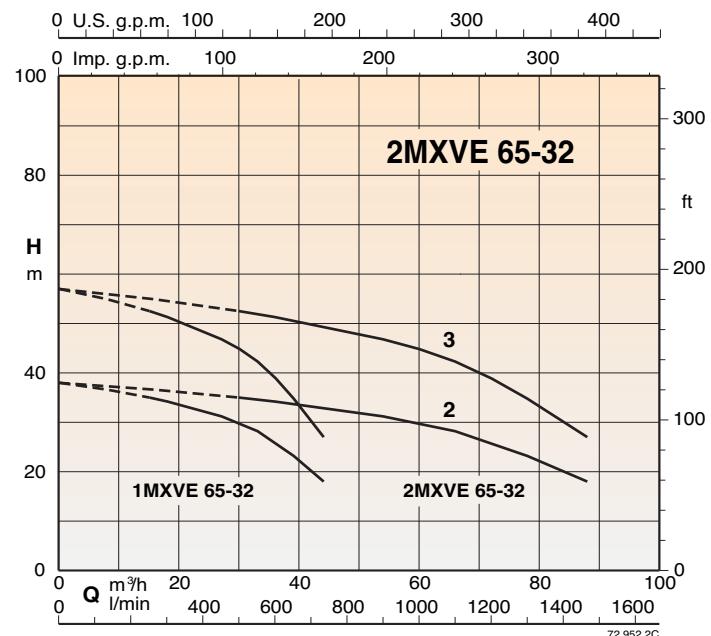
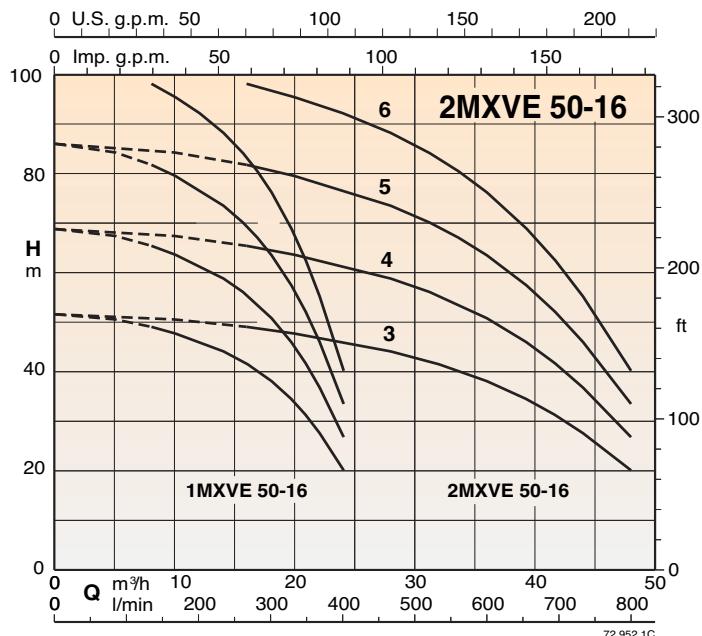
BS1V1F

Mains: 400V 3~ Motor: 400V 3~	Motor		Vessel Membrane litre
	kW	HP	
BS1V1F 1MXVE 25-204+1MXV 25-204	0,75+0,75	1+1	24x2
BS1V1F 1MXVE 25-205+1MXV 25-205	1,1+0,75	1,5+1	24x2
BS1V1F 1MXVE 25-206+1MXV 25-206	1,1+1,1	1,5+1,5	24x2
BS1V1F 1MXVE 25-207+1MXV 25-207	1,5+1,1	2+1,5	24x2
BS1V1F 1MXVE 25-208+1MXV 25-208	1,5+1,5	2+2	24x2
BS1V1F 1MXVE 32-404+1MXV 32-404	1,1+1,1	1,5+1,5	24x2
BS1V1F 1MXVE 32-405+1MXV 32-405	1,5+1,1	2+1,5	24x2
BS1V1F 1MXVE 32-406+1MXV 32-406	1,5+1,5	2+2	24x2
BS1V1F 1MXVE 32-407+1MXV 32-407	2,2+1,5	3+2	24x2
BS1V1F 1MXVE 32-408+1MXV 32-408	2,2+2,2	3+3	24x2
BS1V1F 1MXVE 40-804+1MXV 40-804	2,2+1,5	3+2	24x2
BS1V1F 1MXVE 40-805+1MXV 40-805	2,2+2,2	3+3	24x2
BS1V1F 1MXVE 40-807+1MXV 40-807	3+3	4+4	24x2
BS1V1F 1MXVE 40-808+1MXV 40-808	4+3	5,5+4	24x2

BS2V

Mains: 400V 3~ Motor: 400V 3~	Motor		Vessel Membrane litre
	kW	HP	
BS2V 2MXVE 25-204	0,75 x2	1 x2	24x2
BS2V 2MXVE 25-205	1,1 x2	1,5 x2	24x2
BS2V 2MXVE 25-206	1,1 x2	1,5 x2	24x2
BS2V 2MXVE 25-207	1,5 x2	2 x2	24x2
BS2V 2MXVE 25-208	1,5 x2	2 x2	24x2
BS2V 2MXVE 32-404	1,1 x2	1,5 x2	24x2
BS2V 2MXVE 32-405	1,5 x2	2 x2	24x2
BS2V 2MXVE 32-406	1,5 x2	2 x2	24x2
BS2V 2MXVE 32-407	2,2 x2	3 x2	24x2
BS2V 2MXVE 32-408	2,2 x2	3 x2	24x2
BS2V 2MXVE 40-804	2,2 x2	3 x2	24x2
BS2V 2MXVE 40-805	2,2 x2	3 x2	24x2
BS2V 2MXVE 40-807	3 x2	4 x2	24x2
BS2V 2MXVE 40-808	4 x2	5,5 x2	24x2

Coverage chart



Performance

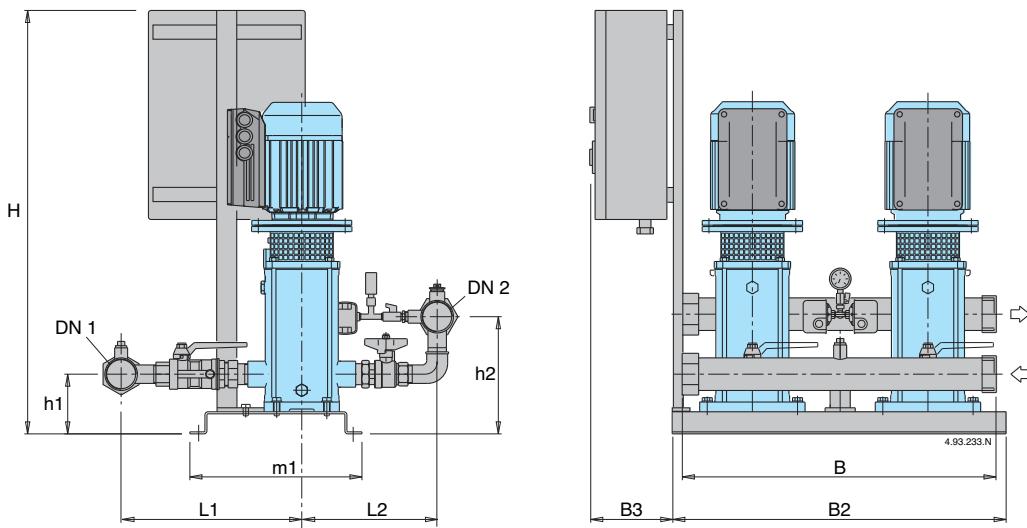
BS1V1F

Mains: 400V 3~ Motor: 400V 3~	Motor		Vessel Membrane litre
	kW	HP	
BS1V1F 1MXVE 50-1603+1MXV 50-1603	4+3	5,5+4	24x1
BS1V1F 1MXVE 50-1604+1MXV 50-1604	5,5+4	7,5+5,5	24x1
BS1V1F 1MXVE 50-1605+1MXV 50-1605	5,5+5,5	7,5+7,5	24x1
BS1V1F 1MXVE 50-1606+1MXV 50-1606	7,5+5,5	7,5+7,5	24x1
BS1V1F 1MXVE 65-3202+1MXV 65-3202	4+4	5,5+5,5	24x1
BS1V1F 1MXVE 65-3203+1MXV 65-3203	7,5+5,5	10+7,5	24x1
BS1V1F 1MXVE 80-4802+1MXV 80-4802	5,5+5,5	7,5+7,5	24x1
BS1V1F 1MXVE 80-4803+1MXV 80-4803	7,5+7,5	10+10	24x1

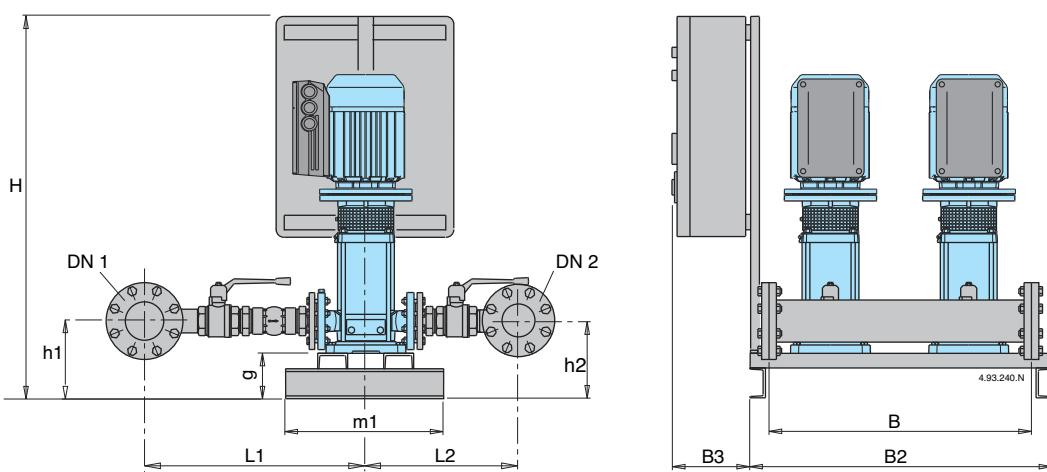
BS2V

Mains: 400V 3~ Motor: 400V 3~	Motor		Vessel Membrane litre
	kW	HP	
BS2V 2MXVE 50-1603	4 x2	5,5 x2	24x1
BS2V 2MXVE 50-1604	5,5 x2	7,5 x2	24x1
BS2V 2MXVE 50-1605	5,5 x2	7,5 x2	24x1
BS2V 2MXVE 50-1606	7,5 x2	10 x2	24x1
BS2V 2MXVE 65-3202	4 x2	5,5 x2	24x1
BS2V 2MXVE 65-3203	7,5 x2	10 x2	24x1
BS2V 2MXVE 80-4802	5,5 x2	7,5 x2	24x1
BS2V 2MXVE 80-4803	7,5 x2	10 x2	24x1

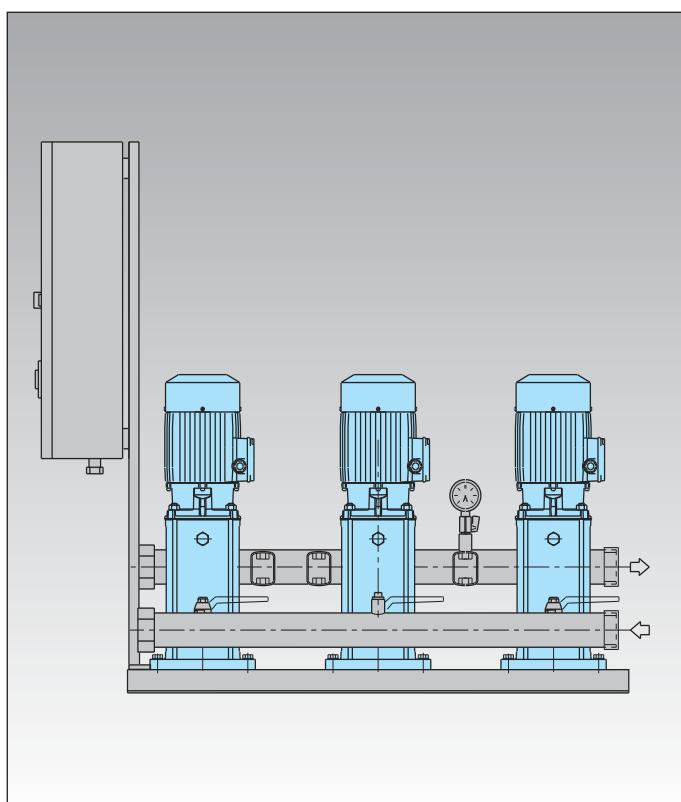
Dimensions and weights



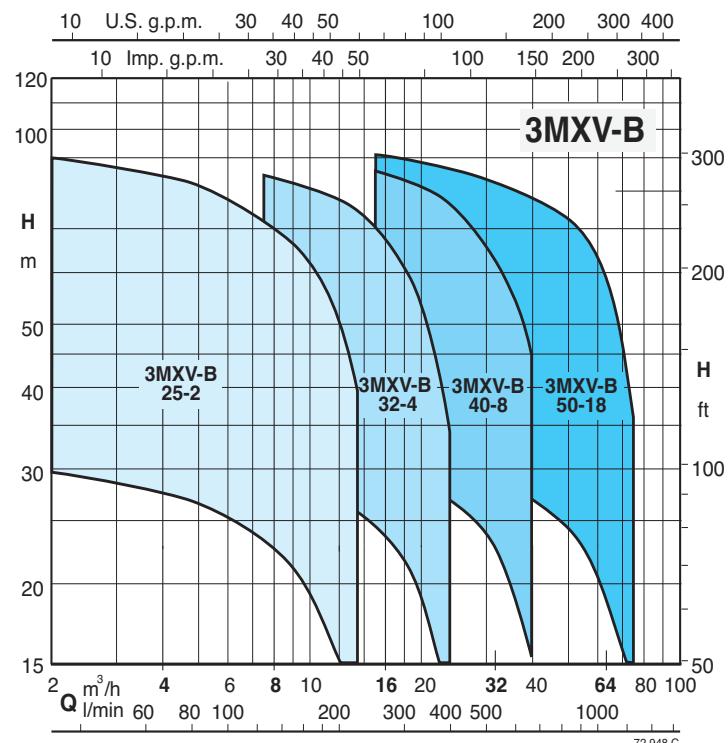
TYPE	DN1	DN2	mm									kg
			H	h1	h2	L1	L2	m1	B	B2	B3	
BS.. 2MXVE 25-204												110
BS.. 2MXVE 25-205												112
BS.. 2MXVE 25-206	G 1 1/2	G 1 1/2	860	119	218	331	254	365	600	625	160	114
BS.. 2MXVE 25-207												116
BS.. 2MXVE 25-208												126
BS.. 2MXVE 32-404												113
BS.. 2MXVE 32-405	G 2	G 2	860	119	225	360	270	365	600	625	160	115
BS.. 2MXVE 32-406												125
BS.. 2MXVE 32-407												127
BS.. 2MXVE 32-408												137
BS.. 2MXVE 40-804												126
BS.. 2MXVE 40-805	G 2 1/2	G 2 1/2	860	124	245	445	350	365	600	625	160	136
BS.. 2MXVE 40-807												164
BS.. 2MXVE 40-808												166



TYPE	DN1	DN2	mm										kg
			H	h1	h2	L1	L2	B	B2	B3	m1	g	
BS.. 2MXVE 50-1603											160		282
BS.. 2MXVE 50-1604	G 3	G 3	935	215	215	590	415	700	950		160		298
BS.. 2MXVE 50-1605											200		336
BS.. 2MXVE 50-1606											200		340
BS.. 2MXVE 65-3202	100	100	1335	230	230	660	475	750	950	160	200	550	358
BS.. 2MXVE 65-3203										200	200	125	396
BS.. 2MXVE 80-4802	125	125	1335	230	230	725	495	750	950	200	250	550	408
BS.. 2MXVE 80-4803										250	125		432



Coverage chart



Construction

Automatic pressure boosting plant consisting of three vertical multi-stage close coupled pumps complete with ball, non return valve on the suction side and ball valves on the discharge side.

Suction and delivery manifolds are in AISI 304.

Connections are located on the delivery manifold for the installation of three 20 litres cylindrical vessels (for 3MXV-B 25-32-40).

Connections are located on the delivery manifold for the installation of two 20 litres cylindrical vessels (for 3MXV-B 50).

Electrical control boards:

- with microprocessor for fixed speed pump units (see page 386).
- with frequency converter for variable speed pump units (see page 387).

The unit includes one pressure gauge and three adjustable differential pressure switches.

Operation

BS 3F Fixed speed pump

Depending on the reduction of the pressure in the system, the pressure switches determine the starting up of the pumps in sequence and the microprocessor alternates the starts.

BS1V2F Pumps at variable speed with one frequency converter

According to the water consumption, one or more pumps start, one at variable speed and the others at fixed speed, to grant the water quantity required at the set pressure.

BS3V Pumps at variable speed with three frequency converter

Depending on water consumption, one or more pumps are activated, all at variable speed, in order to guarantee the quantity of water required at the set pressure.

Applications

To supply water in civil and industrial buildings.

As pressure boosting pump to increase water pressure when needed (follow local rules).

Motors

2-pole induction motors, 50 Hz, $n = 2900$ rpm, suitable for operation with frequency converter.

- Three-phase 230/400V $\pm 10\%$.

Insulation class F.

Protection IP 54.

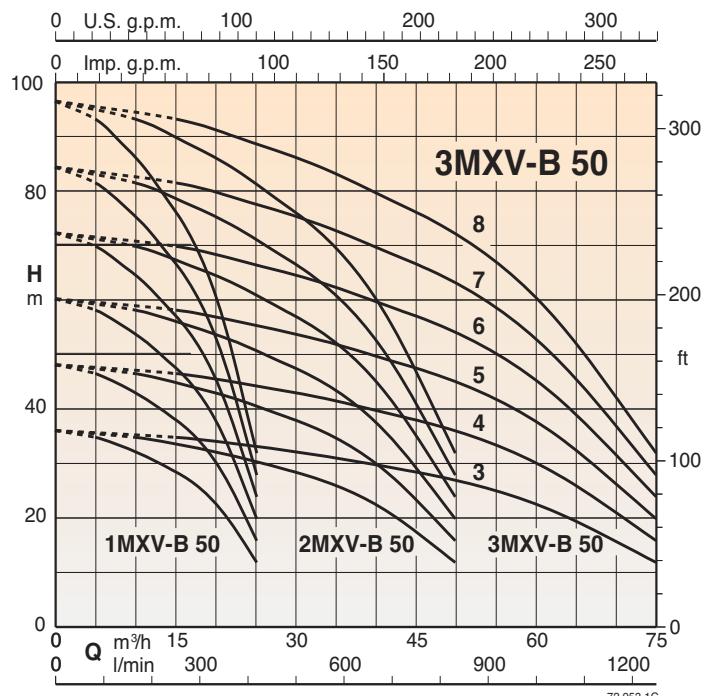
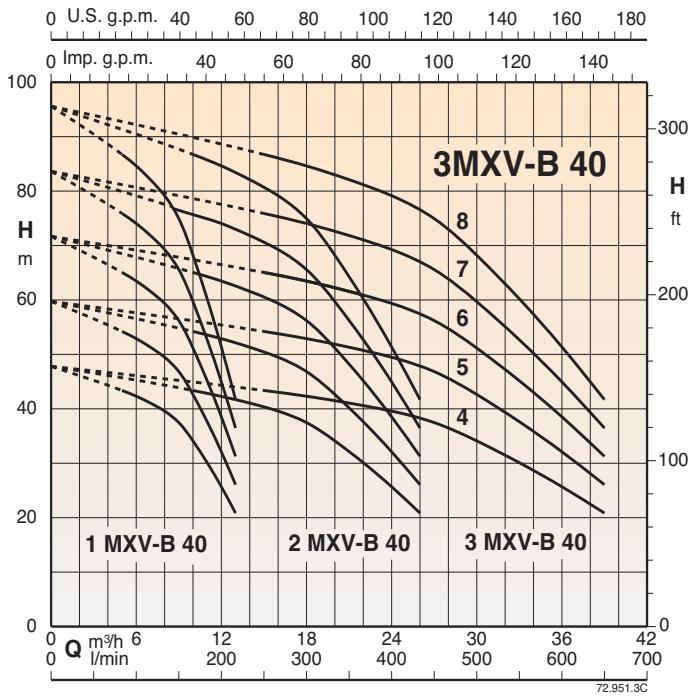
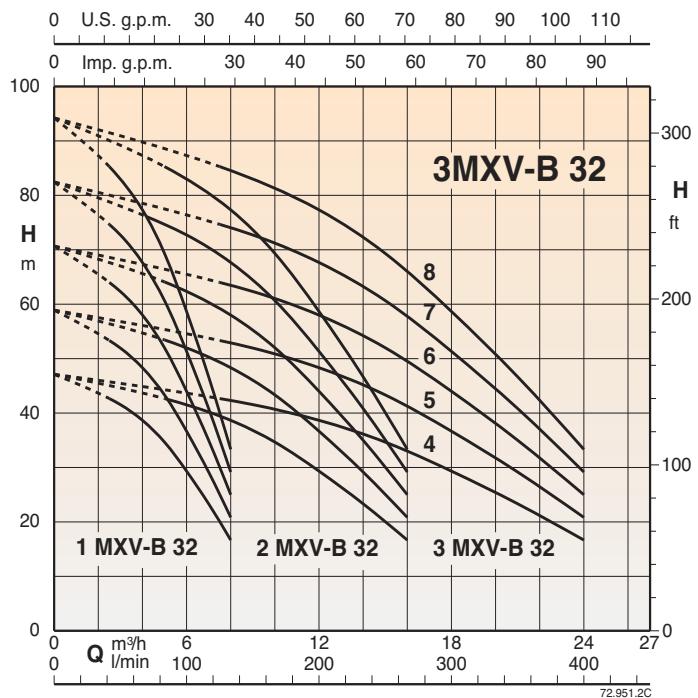
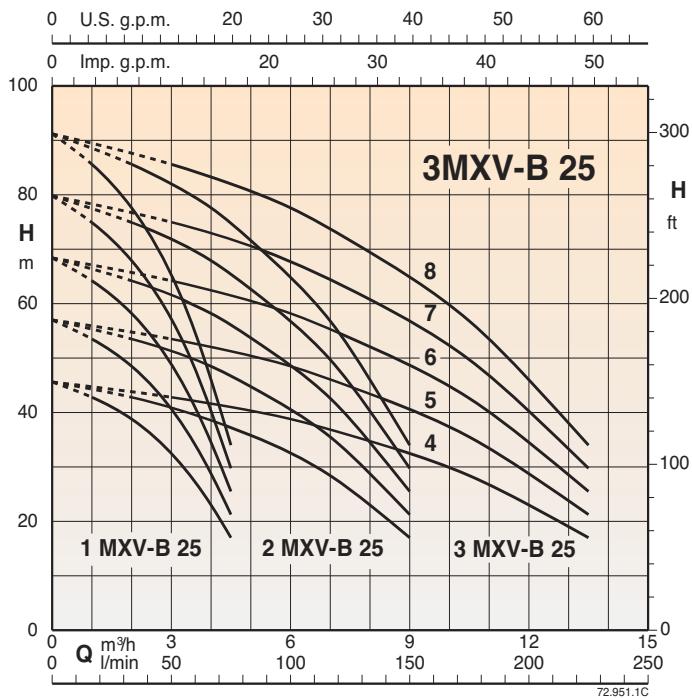
Constructed in accordance with: IEC 60034.

Other voltages and frequencies on request.

Vessels

When installing the unit, connect in the delivery section to a diaphragm or galvanised tank.
The recommended sizes are shown in the following page.

Coverage chart



Performance BS3F

Mains: 400V 3~ Motor: 400V 3~	Motor		Pres. switch bar	Pres. switch bar	Pres. switch bar	Average capacity		Maximum capacity		Membrane V. litre	Vessel litre
	kW	HP				Q l/min	H m	Q l/min	H m		
BS3F 3MXV-B 25-204	0,75+0,75+0,75	1+1+1	2,5÷4,0	2,2÷3,7	1,9÷3,4	165	30	220	19	40	100
BS3F 3MXV-B 25-205	0,75+0,75+0,75	1+1+1	3,5÷5,0	3,2÷4,7	2,9÷4,4	155	40	200	29	50	300
BS3F 3MXV-B 25-206	1,1+1,1+1,1	1,5+1,5+1,5	4,5÷6,0	4,2÷5,7	3,9÷5,4	145	50	190	39	50	300
BS3F 3MXV-B 25-207	1,1+1,1+1,1	1,5+1,5+1,5	5,5÷7,0	5,2÷6,7	4,9÷6,4	142	60	175	49	60	300
BS3F 3MXV-B 25-208	1,5+1,5+1,5	2+2+2	6,5÷8,0	6,2÷7,7	5,9÷7,4	132	70	170	59	80	500
BS3F 3MXV-B 32-404	1,1+1,1+1,1	1,5+1,5+1,5	2,5÷4,0	2,2÷3,7	1,9÷3,4	303	30	395	19	100	200
BS3F 3MXV-B 32-405	1,1+1,1+1,1	1,5+1,5+1,5	3,5÷5,0	3,2÷4,7	2,9÷4,4	280	40	350	29	100	300
BS3F 3MXV-B 32-406	1,5+1,5+1,5	2+2+2	4,5÷6,0	4,2÷5,7	3,9÷5,4	270	50	330	39	100	300
BS3F 3MXV-B 32-407	1,5+1,5+1,5	2+2+2	5,5÷7,0	5,2÷6,7	4,9÷6,4	260	60	310	49	200	300
BS3F 3MXV-B 32-408	2,2+2,2+2,2	3+3+3	6,5÷8,0	6,2÷7,7	5,9÷7,4	245	70	300	59	200	500
BS3F 3MXV-B 40-804	1,5+1,5+1,5	2+2+2	2,5÷4,0	2,2÷3,7	1,9÷3,4	550	30	650	19	200	300
BS3F 3MXV-B 40-805	2,2+2,2+2,2	3+3+3	3,5÷5,0	3,2÷4,7	2,9÷4,4	525	40	620	29	300	500
BS3F 3MXV-B 40-806	2,2+2,2+2,2	3+3+3	4,5÷6,0	4,2÷5,7	3,9÷5,4	510	50	600	39	300	500
BS2F 3MXV-B 40-807	3+3+3	4+4+4	5,5÷7,0	5,2÷6,7	4,9÷6,4	500	60	580	49	300	500
BS2F 3MXV-B 40-808	3+3+3	4+4+4	6,5÷8,0	6,2÷7,7	5,9÷7,4	490	70	560	59	300	500
BS2F 3MXV-B 50-1803	2,2+2,2+2,2	3+3+3	1,8÷3,0	1,5÷2,7	1,2÷2,4	1160	21	1250	12	500	800
BS2F 3MXV-B 50-1804	3+3+3	4+4+4	2,5÷4,0	2,2÷3,7	1,9÷3,4	1000	30	1200	19	500	800
BS2F 3MXV-B 50-1805	3,7+3,7+3,7	5+5+5	3,5÷5,0	3,2÷4,7	2,9÷4,4	950	40	1130	29	500	800
BS2F 3MXV-B 50-1806	4+4+4	5,5+5,5+5,5	4,5÷6,0	4,2÷5,7	3,9÷5,4	920	50	1100	39	500	1000
BS2F 3MXV-B 50-1807	5,5+5,5+5,5	7,5+7,5+7,5	5,5÷7,0	5,2÷6,7	4,9÷6,4	880	60	1050	49	500	1000
BS2F 3MXV-B 50-1808	5,5+5,5+5,5	7,5+7,5+7,5	6,5÷8,0	6,2÷7,7	5,9÷7,4	790	70	1030	59	500	1000

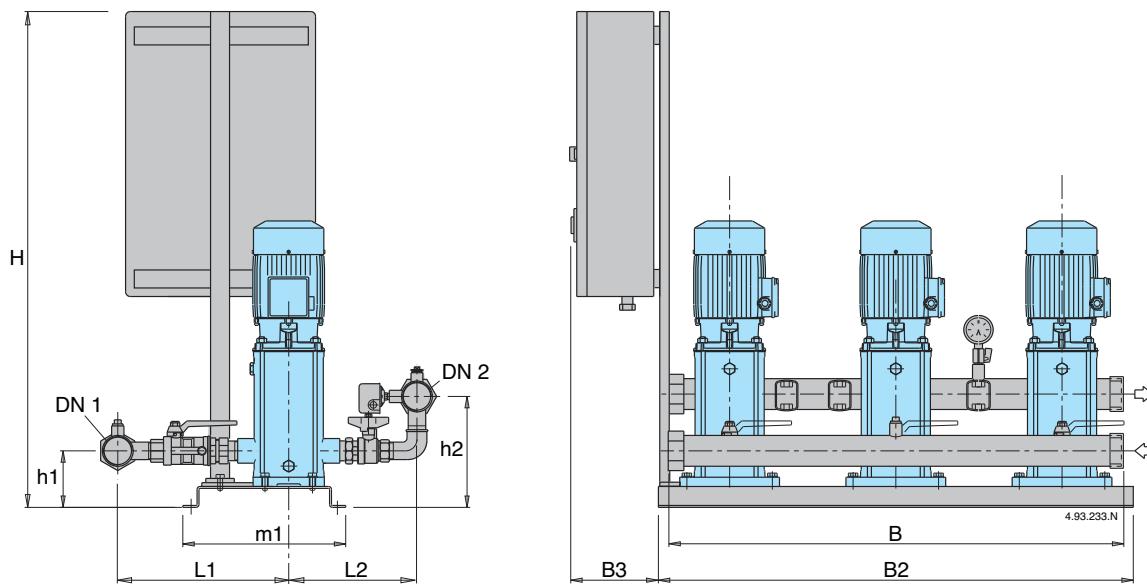
BS1V2F

Mains: 400V 3~ Motor: 400V 3~	Motor		Vessel Membrane litre
	kW	HP	
BS1V2F 3MXV-B 25-204	0,75 x3	1 x3	24x3
BS1V2F 3MXV-B 25-205	0,75 x3	1 x3	24x3
BS1V2F 3MXV-B 25-206	1,1 x3	1,5 x3	24x3
BS1V2F 3MXV-B 25-207	1,1 x3	1,5 x3	24x3
BS1V2F 3MXV-B 25-208	1,5 x3	2 x3	24x3
BS1V2F 3MXV-B 32-404	1,1 x3	1,5 x3	24x3
BS1V2F 3MXV-B 32-405	1,1 x3	1,5 x3	24x3
BS1V2F 3MXV-B 32-406	1,5 x3	2 x3	24x3
BS1V2F 3MXV-B 32-407	1,5 x3	2 x3	24x3
BS1V2F 3MXV-B 32-408	2,2 x3	3 x3	24x3
BS1V2F 3MXV-B 40-804	1,5 x3	2 x3	24x3
BS1V2F 3MXV-B 40-805	2,2 x3	3 x3	24x3
BS1V2F 3MXV-B 40-806	2,2 x3	3 x3	24x3
BS1V2F 3MXV-B 40-807	3 x3	4 x3	24x3
BS1V2F 3MXV-B 40-808	3 x3	4 x3	24x3
BS1V2F 3MXV-B 50-1803	2,2 x3	3 x3	24x2
BS1V2F 3MXV-B 50-1804	3 x3	4 x3	24x2
BS1V2F 3MXV-B 50-1805	3,7 x3	5 x3	24x2
BS1V2F 3MXV-B 50-1806	4 x3	5,5 x3	24x2
BS1V2F 3MXV-B 50-1807	5,5 x3	7,5 x3	24x2
BS1V2F 3MXV-B 50-1808	5,5 x3	7,5 x3	24x2

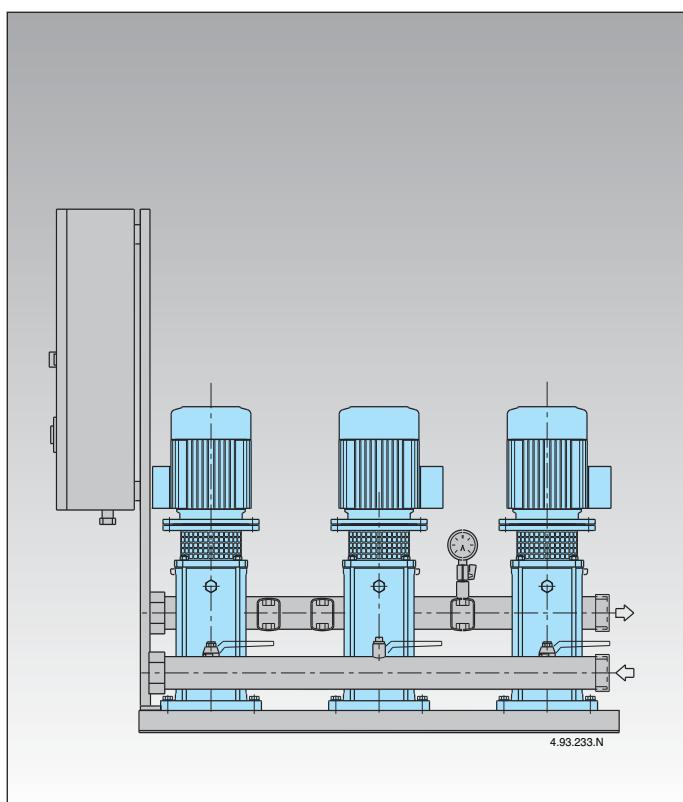
BS3V

Mains: 400V 3~ Motor: 400V 3~	Motor		Vessel Membrane litre
	kW	HP	
BS3V 3MXV-B 25-204	0,75 x3	1 x3	24x3
BS3V 3MXV-B 25-205	0,75 x3	1 x3	24x3
BS3V 3MXV-B 25-206	1,1 x3	1,5 x3	24x3
BS3V 3MXV-B 25-207	1,1 x3	1,5 x3	24x3
BS3V 3MXV-B 25-208	1,5 x3	2 x3	24x3
BS3V 3MXV-B 32-404	1,1 x3	1,5 x3	24x3
BS3V 3MXV-B 32-405	1,1 x3	1,5 x3	24x3
BS3V 3MXV-B 32-406	1,5 x3	2 x3	24x3
BS3V 3MXV-B 32-407	1,5 x3	2 x3	24x3
BS3V 3MXV-B 32-408	2,2 x3	3 x3	24x3
BS3V 3MXV-B 40-804	1,5 x3	2 x3	24x3
BS3V 3MXV-B 40-805	2,2 x3	3 x3	24x3
BS3V 3MXV-B 40-806	2,2 x3	3 x3	24x3
BS3V 3MXV-B 40-807	3 x3	4 x3	24x3
BS3V 3MXV-B 40-808	3 x3	4 x3	24x3
BS3V 3MXV-B 50-1803	2,2 x3	3 x3	24x2
BS3V 3MXV-B 50-1804	3 x3	4 x3	24x2
BS3V 3MXV-B 50-1805	3,7 x3	5 x3	24x2
BS3V 3MXV-B 50-1806	4 x3	5,5 x3	24x2
BS3V 3MXV-B 50-1807	5,5 x3	7,5 x3	24x2
BS3V 3MXV-B 50-1808	5,5 x3	7,5 x3	24x2

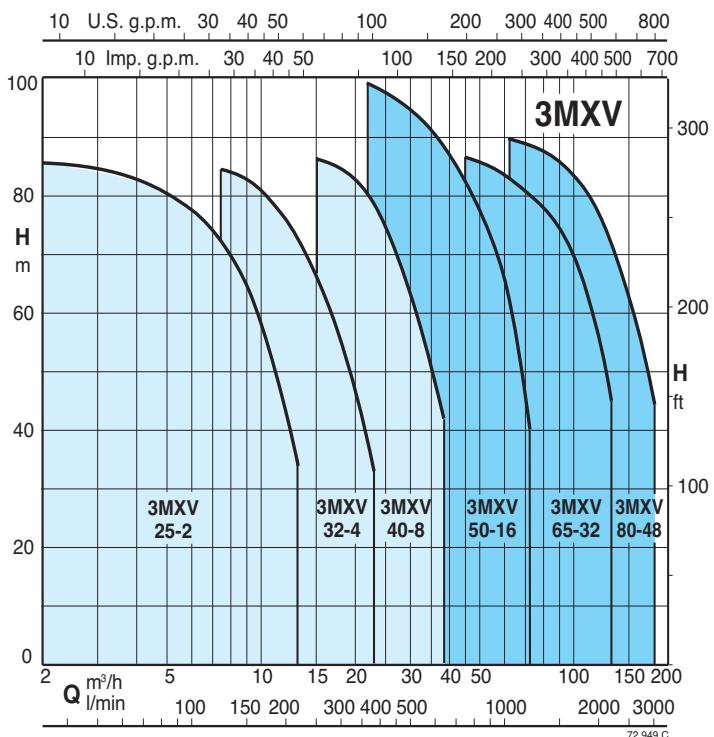
Dimensions and weights



TYPE			mm									kg
	DN1	DN2	H	h1	h2	L1	L2	B	B2	B3	m1	
BS.. 3MXV-B 25-204												103
BS.. 3MXV-B 25-205												105
BS.. 3MXV-B 25-206	G 2	G 2	1060	134	233	337	254	950	1000	200	406	107
BS.. 3MXV-B 25-207												118
BS.. 3MXV-B 25-208												120
BS.. 3MXV-B 32-404												104
BS.. 3MXV-B 32-405												108
BS.. 3MXV-B 32-406	G 2 ½	G 2 ½	1060	134	240	368	270	950	1000	200	406	113
BS.. 3MXV-B 32-407												118
BS.. 3MXV-B 32-408												122
BS.. 3MXV-B 40-804												111
BS.. 3MXV-B 40-805												117
BS.. 3MXV-B 40-806	G 3	G 3	1060	139	260	452	350	950	1000	200	406	123
BS.. 3MXV-B 40-807												156
BS.. 3MXV-B 40-808												159
BS.. 3MXV-B 50-1803												251
BS.. 3MXV-B 50-1804	100	100	1090	215	215	507	418	1200	1400	200	550	281
BS.. 3MXV-B 50-1805												296
BS.. 3MXV-B 50-1806												299
BS.. 3MXV-B 50-1807												332
BS.. 3MXV-B 50-1808												335



Coverage chart



Construction

Automatic pressure boosting plant consisting of three vertical multi-stage pumps complete with ball, non return valve on the suction side and ball valves on the discharge side.

Suction and delivery manifolds are in AISI 304.

Connections are located on the delivery manifold for the installation of three 20 litres cylindrical vessels (for 3MXV 25-32-40).

Connections are located on the delivery manifold for the installation of two 20 litres cylindrical vessels (for 3MXV 50-65-80).

Electrical control boards:

- with microprocessor for fixed speed pump units (see page 386). Motor starting is D.O.L. up to 5,5 kW and Y/Δ for power rating 7,5 up to 15 kW.
- with frequency converter for variable speed pump units (see page 387).

The unit includes one pressure gauge and three adjustable differential pressure switches.

Operation

BS 3F Fixed speed pump

Depending on the reduction of the pressure in the system, the pressure switches determine the starting up of the pumps in sequence and the microprocessor alternates the starts.

BS1V2F Pumps at variable speed with one frequency converter

According to the water consumption, one or more pumps start, one at variable speed and the others at fixed speed, to grant the water quantity required at the set pressure.

BS3V Pumps at variable speed with three frequency converter

Depending on water consumption, one or more pumps are activated, all at variable speed, in order to guarantee the quantity of water required at the set pressure.

Applications

To supply water in civil and industrial buildings.

As pressure boosting pump to increase water pressure when needed (follow local rules).

Motors

2-pole induction motors, 50 Hz, n = 2900 rpm, suitable for operation with frequency converter.

- Three-phase 230/400V ± 10% up to 3 kW;
400/690V ± 10% from 4 to 15 kW.

Insulation class F.

Protection IP 55.

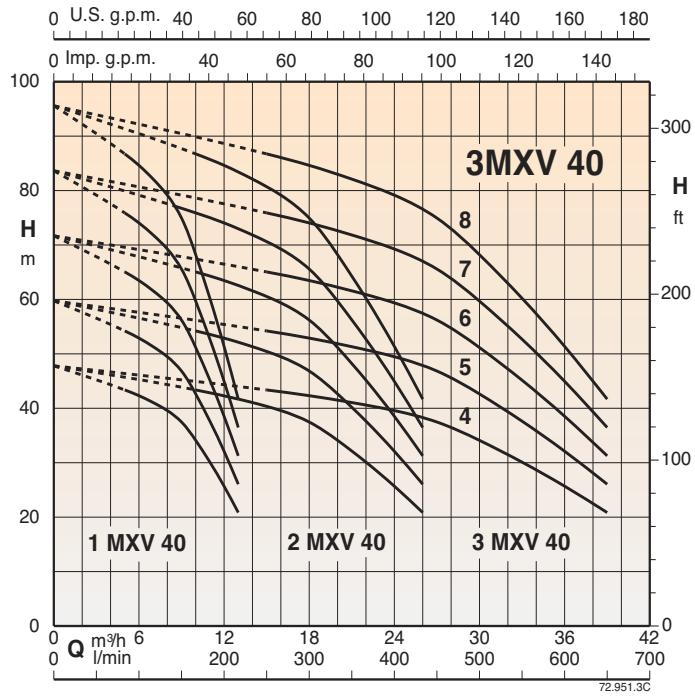
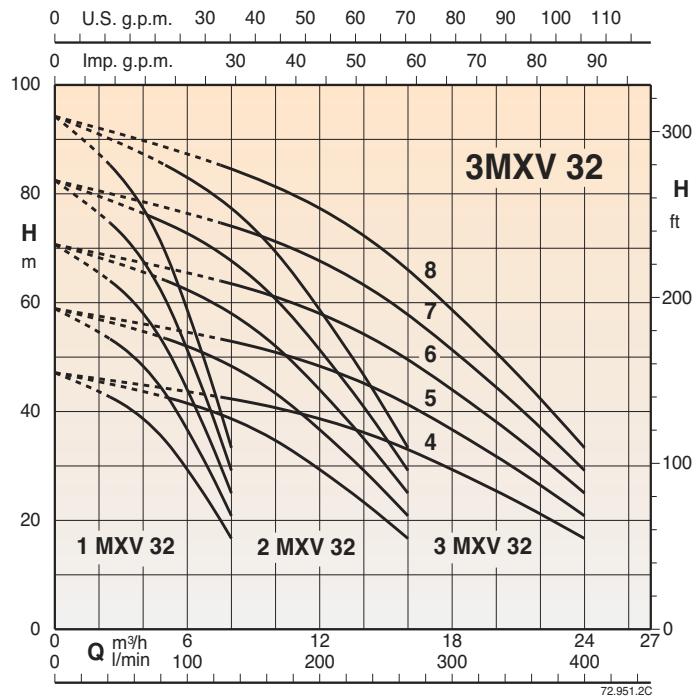
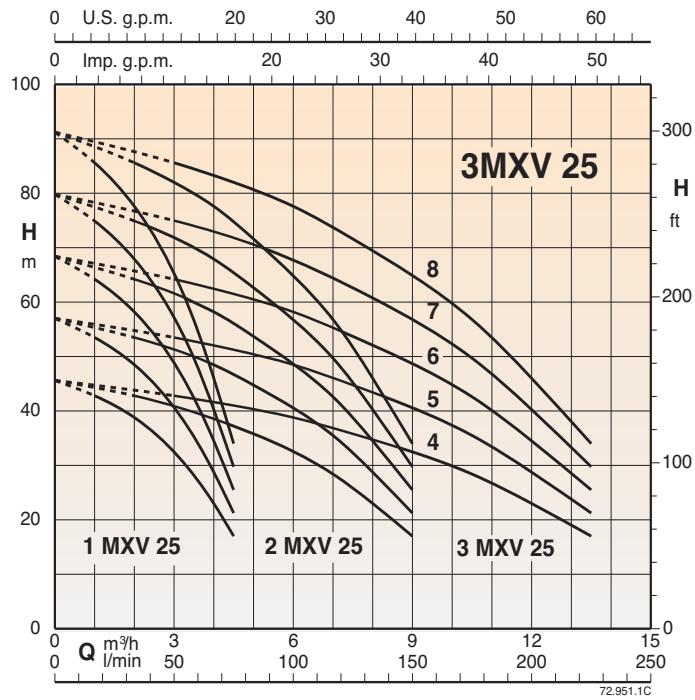
Constructed in accordance with: IEC 60034.

Other voltages and frequencies on request.

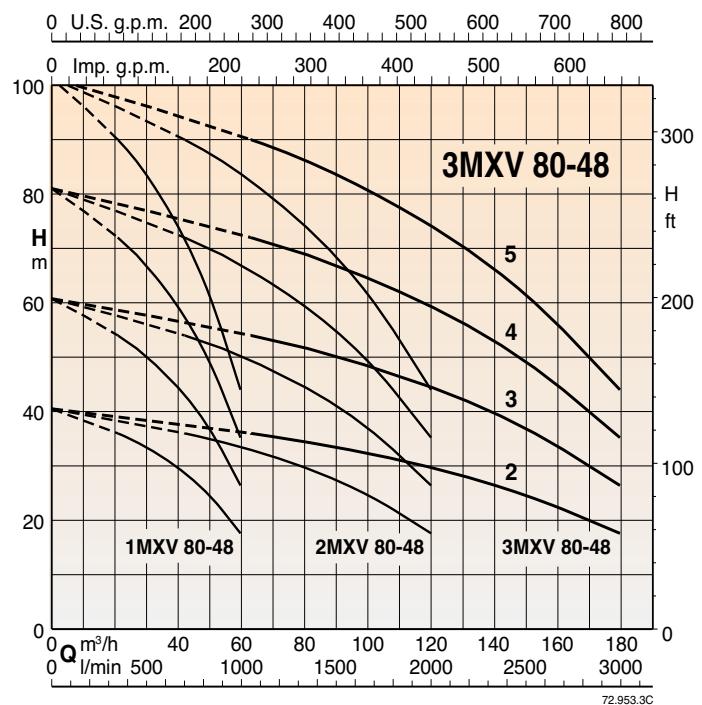
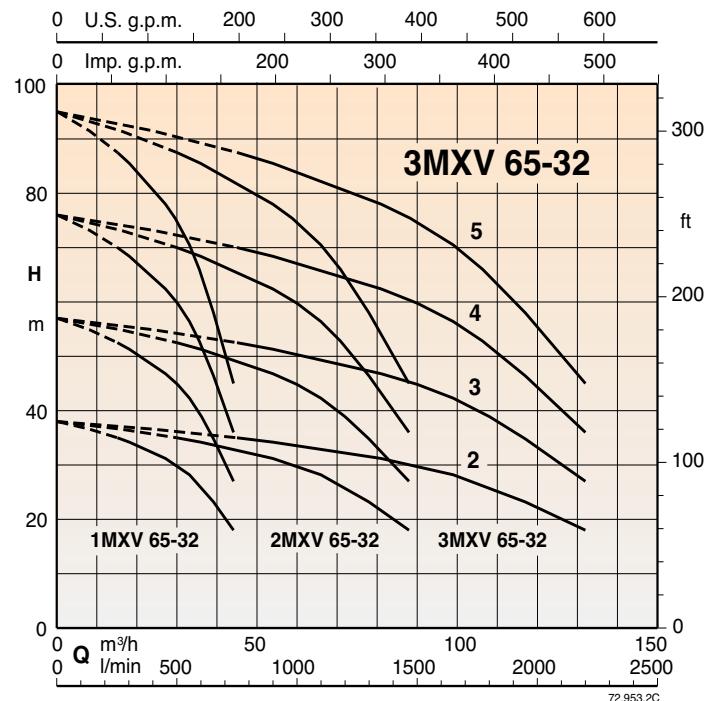
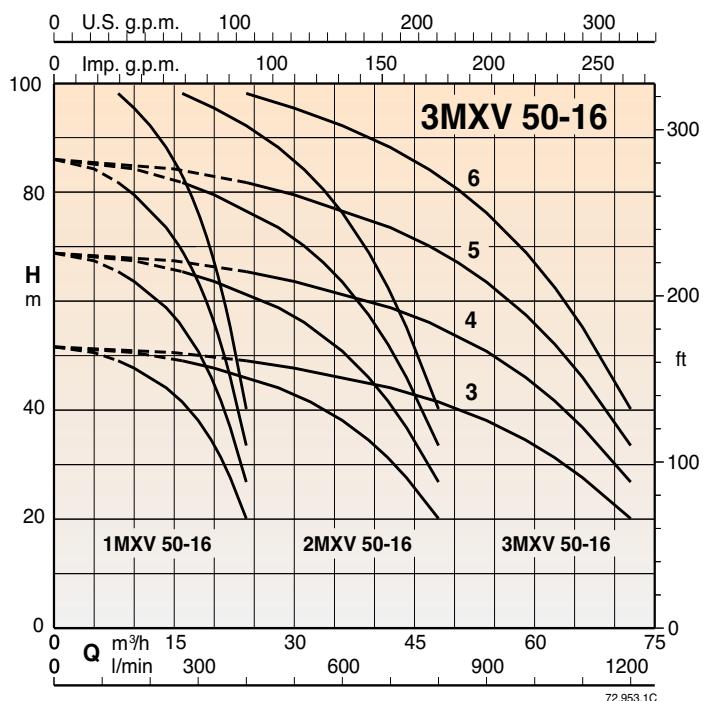
Vessels

When installing the unit, connect in the delivery section to a diaphragm or galvanised tank.
 The recommended sizes are shown in the following page.

Coverage chart



Coverage chart





Performance

BS3F

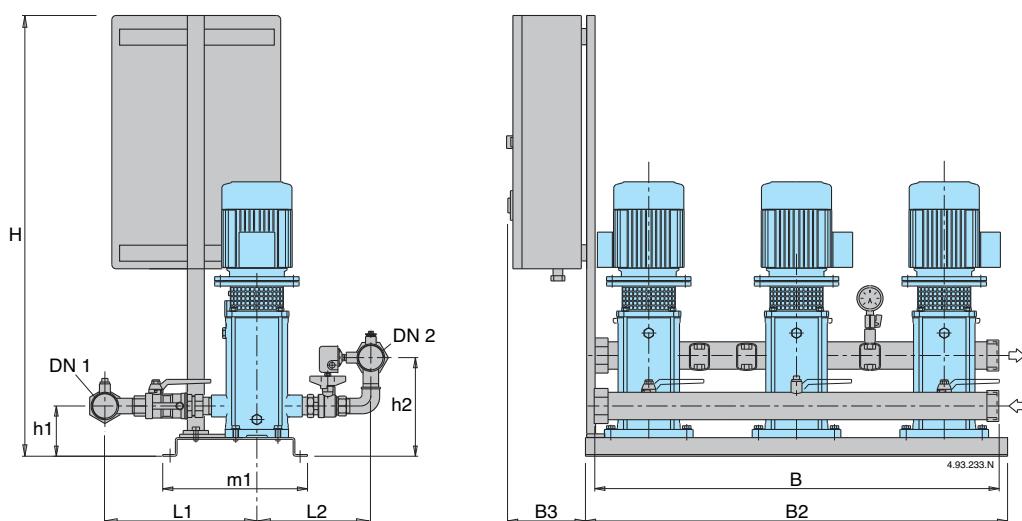
Mains: 400V 3~ Motor: 400V 3~	Motor		Pres. switch bar	Pres. switch bar	Pres. switch bar	Average capacity		Maximum capacity		Membrane V. litre	Vessel litre
	kW	HP				Q l/min	H m	Q l/min	H m		
BS3F 3MXV 25-204	0,75+0,75+0,75	1+1+1	2,5÷4,0	2,2÷3,7	1,9÷3,4	165	30	220	19	40	100
BS3F 3MXV 25-205	0,75+0,75+0,75	1+1+1	3,5÷5,0	3,2÷4,7	2,9÷4,4	155	40	200	29	50	300
BS3F 3MXV 25-206	1,1+1,1+1,1	1,5+1,5+1,5	4,5÷6,0	4,2÷5,7	3,9÷5,4	145	50	190	39	50	300
BS3F 3MXV 25-207	1,1+1,1+1,1	1,5+1,5+1,5	5,5÷7,0	5,2÷6,7	4,9÷6,4	142	60	175	49	60	300
BS3F 3MXV 25-208	1,5+1,5+1,5	2+2+2	6,5÷8,0	6,2÷7,7	5,9÷7,4	132	70	170	59	80	500
BS3F 3MXV 32-404	1,1+1,1+1,1	1,5+1,5+1,5	2,5÷4,0	2,2÷3,7	1,9÷3,4	303	30	395	19	100	200
BS3F 3MXV 32-405	1,1+1,1+1,1	1,5+1,5+1,5	3,5÷5,0	3,2÷4,7	2,9÷4,4	280	40	350	29	100	300
BS3F 3MXV 32-406	1,5+1,5+1,5	2+2+2	4,5÷6,0	4,2÷5,7	3,9÷5,4	270	50	330	39	100	300
BS3F 3MXV 32-407	1,5+1,5+1,5	2+2+2	5,5÷7,0	5,2÷6,7	4,9÷6,4	260	60	310	49	200	300
BS3F 3MXV 32-408	2,2+2,2+2,2	3+3+3	6,5÷8,0	6,2÷7,7	5,9÷7,4	245	70	300	59	200	500
BS3F 3MXV 40-804	1,5+1,5+1,5	2+2+2	2,5÷4,0	2,2÷3,7	1,9÷3,4	550	30	650	19	200	300
BS3F 3MXV 40-805	2,2+2,2+2,2	3+3+3	3,5÷5,0	3,2÷4,7	2,9÷4,4	525	40	620	29	300	500
BS3F 3MXV 40-806	2,2+2,2+2,2	3+3+3	4,5÷6,0	4,2÷5,7	3,9÷5,4	510	50	600	39	300	500
BS3F 3MXV 40-807	3+3+3	4+4+4	5,5÷7,0	5,2÷6,7	4,9÷6,4	500	60	580	49	300	500
BS3F 3MXV 40-808	3+3+3	4+4+4	6,5÷8,0	6,2÷7,7	5,9÷7,4	490	70	560	59	300	500
BS3F 3MXV 50-1603	3+3+3	4+4+4	3,0÷4,5	2,5÷4,0	2,0÷3,5	920	38	1200	20	300	500
BS3F 3MXV 50-1604	4+4+4	5,5+5,5+5,5	4,5÷6,0	4,0÷5,5	3,5÷5,0	885	51	1120	35	500	800
BS3F 3MXV 50-1605	5,5+5,5+5,5	7,5+7,5+7,5	6,0÷7,5	5,5÷7,0	5,0÷6,5	875	67	1060	50	500	1000
BS3F 3MXV 50-1606	5,5+5,5+5,5	7,5+7,5+7,5	7,5÷9,0	7,0÷8,5	6,5÷8,0	860	82	1030	65	-	1000
BS3F 3MXV 65-3202	4+4+4	5,5+5,5+5,5	2,2÷3,4	1,9÷3,1	1,6÷2,8	1620	28	2200	16	-	1500
BS3F 3MXV 65-3203	5,5+5,5+5,5	7,5+7,5+7,5	3,8÷5,0	3,3÷4,5	2,8÷4,0	1580	42	2150	28	-	1500
BS3F 3MXV 65-3204	7,5+7,5+7,5	10+10+10	5,0÷6,5	4,5÷6,0	4,0÷5,5	1620	57	2100	40	-	2000
BS3F 3MXV 65-3205	11+11+11	15+15+15	6,5÷8,0	6,0÷7,5	5,5÷7,0	1620	73	2000	55	-	3000
BS3F 3MXV 80-4802	5,5+5,5+5,5	7,5+7,5+7,5	2,3÷3,5	2,0÷3,3	1,7÷3,0	2000	30	3000	17	-	2000
BS3F 3MXV 80-4803	7,5+7,5+7,5	10+10+10	3,8÷5,0	3,3÷4,5	2,8÷4,0	2075	44	2900	28	-	3000
BS3F 3MXV 80-4804	11+11+11	15+15+15	5,0÷6,5	4,5÷6,0	4,0÷5,5	2072	58	2850	40	-	4000
BS3F 3MXV 80-4805	15+15+15	20+20+20	6,5÷8,0	6,0÷7,5	5,5÷7,0	2075	73	2700	55	-	5000

BS1V2F

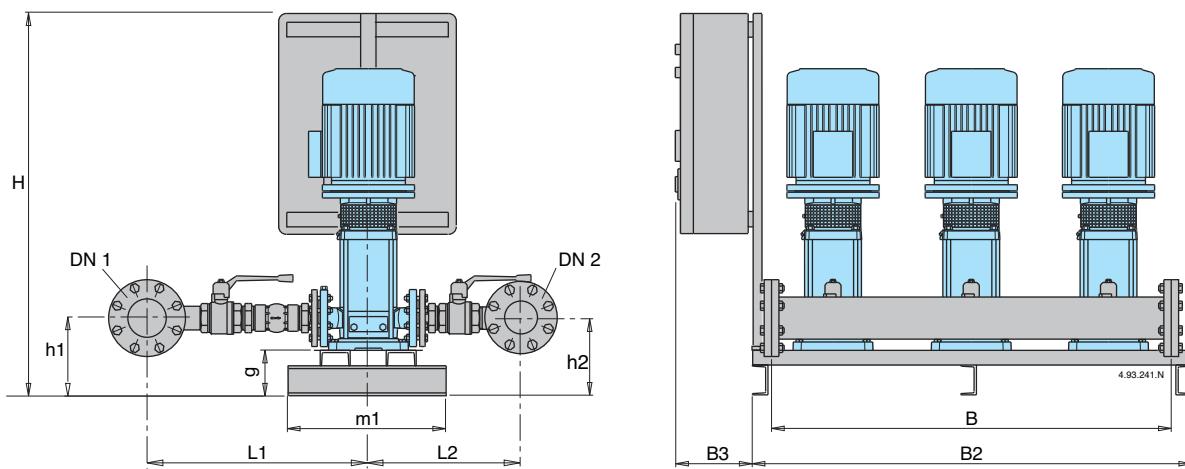
Mains: 400V 3~ Motor: 400V 3~	Motor		Vessel Membrane litre
	kW	HP	
BS1V2F 3MXV 25-204	0,75 x3	1 x3	24x3
BS1V2F 3MXV 25-205	0,75 x3	1 x3	24x3
BS1V2F 3MXV 25-206	1,1 x3	1,5 x3	24x3
BS1V2F 3MXV 25-207	1,1 x3	1,5 x3	24x3
BS1V2F 3MXV 25-208	1,5 x3	2 x3	24x3
BS1V2F 3MXV 32-404	1,1 x3	1,5 x3	24x3
BS1V2F 3MXV 32-405	1,1 x3	1,5 x3	24x3
BS1V2F 3MXV 32-406	1,5 x3	2 x3	24x3
BS1V2F 3MXV 32-407	1,5 x3	2 x3	24x3
BS1V2F 3MXV 32-408	2,2 x3	3 x3	24x3
BS1V2F 3MXV 40-804	1,5 x3	2 x3	24x3
BS1V2F 3MXV 40-805	2,2 x3	3 x3	24x3
BS1V2F 3MXV 40-806	2,2 x3	3 x3	24x3
BS1V2F 3MXV 40-807	3 x3	4 x3	24x3
BS1V2F 3MXV 40-808	3 x3	4 x3	24x3
BS1V2F 3MXV 50-1603	3 x3	4 x3	24x2
BS1V2F 3MXV 50-1604	4 x3	5,5 x3	24x2
BS1V2F 3MXV 50-1605	5,5 x3	7,5 x3	24x2
BS1V2F 3MXV 50-1606	5,5 x3	7,5 x3	24x2
BS1V2F 3MXV 65-3202	4 x3	5,5 x3	24x2
BS1V2F 3MXV 65-3203	5,5 x3	7,5 x3	24x2
BS1V2F 3MXV 65-3204	7,5 x3	10 x3	24x2
BS1V2F 3MXV 65-3205	11 x3	15 x3	24x2
BS1V2F 3MXV 80-4802	5,5 x3	7,5 x3	24x2
BS1V2F 3MXV 80-4803	7,5 x3	10 x3	24x2
BS1V2F 3MXV 80-4804	11 x3	15 x3	24x2
BS1V2F 3MXV 80-4805	15 x3	20 x3	24x2

BS3V

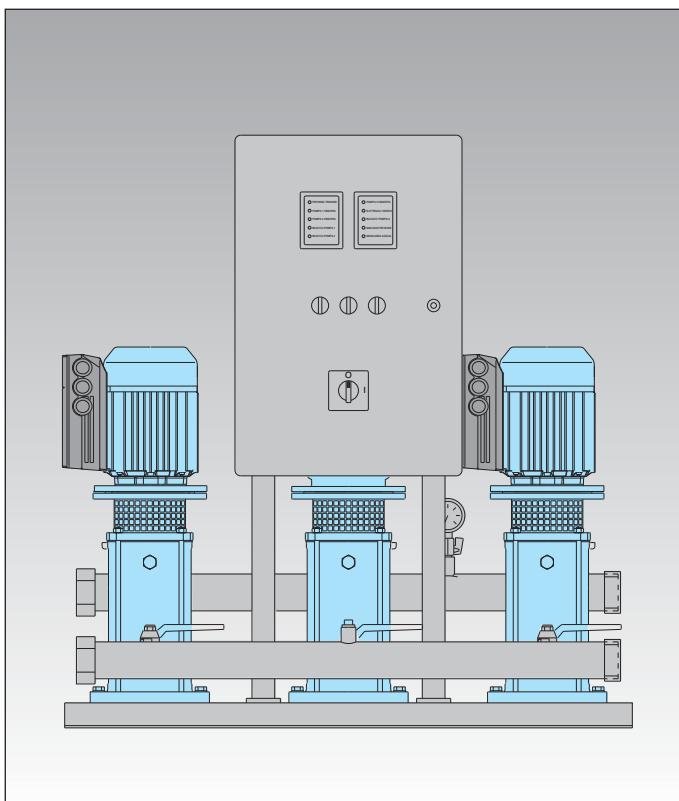
Mains: 400V 3~ Motor: 400V 3~	Motor		Vessel Membrane litre
	kW	HP	
BS3V 3MXV 25-204	0,75 x3	1 x3	24x3
BS3V 3MXV 25-205	0,75 x3	1 x3	24x3
BS3V 3MXV 25-206	1,1 x3	1,5 x3	24x3
BS3V 3MXV 25-207	1,1 x3	1,5 x3	24x3
BS3V 3MXV 25-208	1,5 x3	2 x3	24x3
BS3V 3MXV 32-404	1,1 x3	1,5 x3	24x3
BS3V 3MXV 32-405	1,1 x3	1,5 x3	24x3
BS3V 3MXV 32-406	1,5 x3	2 x3	24x3
BS3V 3MXV 32-407	1,5 x3	2 x3	24x3
BS3V 3MXV 32-408	2,2 x3	3 x3	24x3
BS3V 3MXV 40-804	1,5 x3	2 x3	24x3
BS3V 3MXV 40-805	2,2 x3	3 x3	24x3
BS3V 3MXV 40-806	2,2 x3	3 x3	24x3
BS3V 3MXV 40-807	3 x3	4 x3	24x3
BS3V 3MXV 40-808	3 x3	4 x3	24x3
BS3V 3MXV 50-1603	3 x3	4 x3	24x2
BS3V 3MXV 50-1604	4 x3	5,5 x3	24x2
BS3V 3MXV 50-1605	5,5 x3	7,5 x3	24x2
BS3V 3MXV 50-1606	5,5 x3	7,5 x3	24x2
BS3V 3MXV 65-3202	4 x3	5,5 x3	24x2
BS3V 3MXV 65-3203	5,5 x3	7,5 x3	24x2
BS3V 3MXV 65-3204	7,5 x3	10 x3	24x2
BS3V 3MXV 65-3205	11 x3	15 x3	24x2
BS3V 3MXV 80-4802	5,5 x3	7,5 x3	24x2
BS3V 3MXV 80-4803	7,5 x3	10 x3	24x2
BS3V 3MXV 80-4804	11 x3	15 x3	24x2
BS3V 3MXV 80-4805	15 x3	20 x3	24x2

Dimensions and weights


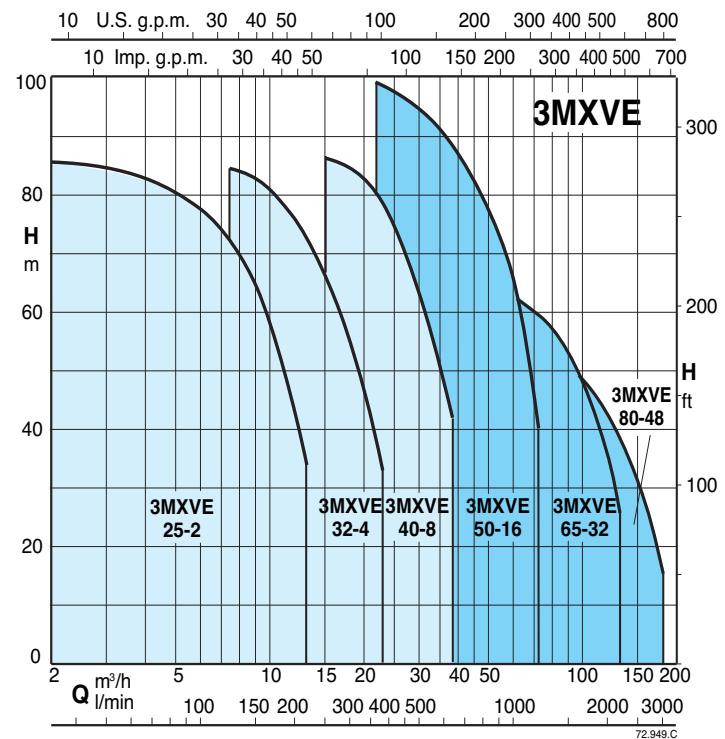
TYPE	DN1	DN2	mm										kg
			H	h1	h2	L1	L2	B	B2	B3	m1		
BS.. 3MXV 25-204												110	
BS.. 3MXV 25-205												112	
BS.. 3MXV 25-206	G 2	G 2	1060	134	233	337	254	950	1000	200	406	114	
BS.. 3MXV 25-207												116	
BS.. 3MXV 25-208												126	
BS.. 3MXV 32-404												113	
BS.. 3MXV 32-405												115	
BS.. 3MXV 32-406	G 2 ½	G 2 ½	1060	134	240	368	270	950	1000	200	406	125	
BS.. 3MXV 32-407												127	
BS.. 3MXV 32-408												137	
BS.. 3MXV 40-804												126	
BS.. 3MXV 40-805												136	
BS.. 3MXV 40-806	G 3	G 3	1060	139	260	452	350	950	1000	200	406	138	
BS.. 3MXV 40-807												164	
BS.. 3MXV 40-808												166	



TYPE	DN1	DN2	mm										kg
			H	h1	h2	L1	L2	B	B2	B3	m1	g	
BS.. 3MXV 50-1603													362
BS.. 3MXV 50-1604	100	100	1135	215	215	600	425	1150	1500	200	550	125	385
BS.. 3MXV 50-1605													448
BS.. 3MXV 50-1606													454
BS.. 3MXV 65-3202			1135							200			448
BS.. 3MXV 65-3203	125	125	1135	230	230	672	487	1200	1500	200	550	125	510
BS.. 3MXV 65-3204			1535							250			546
BS.. 3MXV 65-3205			1535							250			634
BS.. 3MXV 80-4802			1135							200			518
BS.. 3MXV 80-4803	150	150	1535	230	230	738	508	1200	1500	250	550	125	560
BS.. 3MXV 80-4804			1535							250			645
BS.. 3MXV 80-4805			1535							250			695



Coverage chart



Construction

Automatic pressure boosting plant consisting of three vertical multi-stage pumps complete with ball, non return valve on the suction side and ball valves on the discharge side.

Suction and delivery manifolds are in AISI 304.

Connections are located on the delivery manifold for the installation of three 20 litres cylindrical vessels (for 3MXVE 25-32-40).

Connections are located on the delivery manifold for the installation of two 20 litres cylindrical vessels (for 3MXVE 50-65-80).

Electrical control boards:

- with frequency converter for variable speed pump units (see page 387).

The unit includes one pressure gauge and two adjustable differential pressure switches.

Operation

BS1V2F Pumps at variable speed with one frequency converter

According to the water consumption, one or more pumps start, one at variable speed and the others at fixed speed, to grant the water quantity required at the set pressure.

BS3V Pumps at variable speed with three frequency converter

Depending on water consumption, one or more pumps are activated, all at variable speed, in order to guarantee the quantity of water required at the set pressure.

Applications

To supply water in civil and industrial buildings.

As pressure boosting pump to increase water pressure when needed (follow local rules).

Motors

2-pole induction motors, 50 Hz, $n = 2900$ rpm, suitable for operation with frequency converter.

- Three-phase 230/400V $\pm 10\%$ up to 3 kW;
 400/690V $\pm 10\%$ from 4 to 15 kW.

Insulation class F.

Protection IP 55.

Constructed in accordance with: IEC 60034.

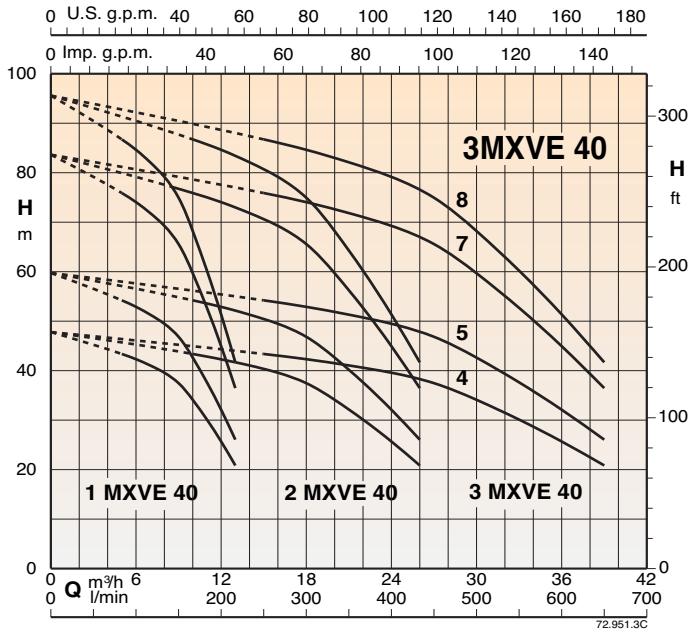
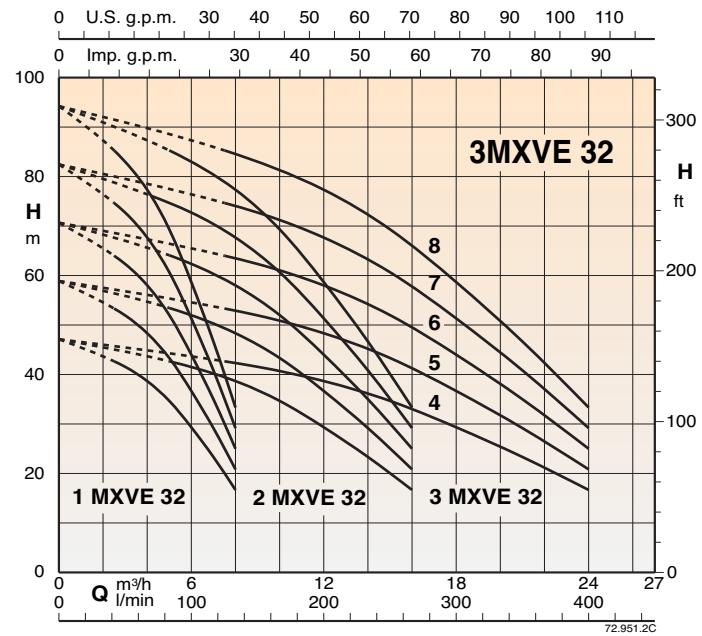
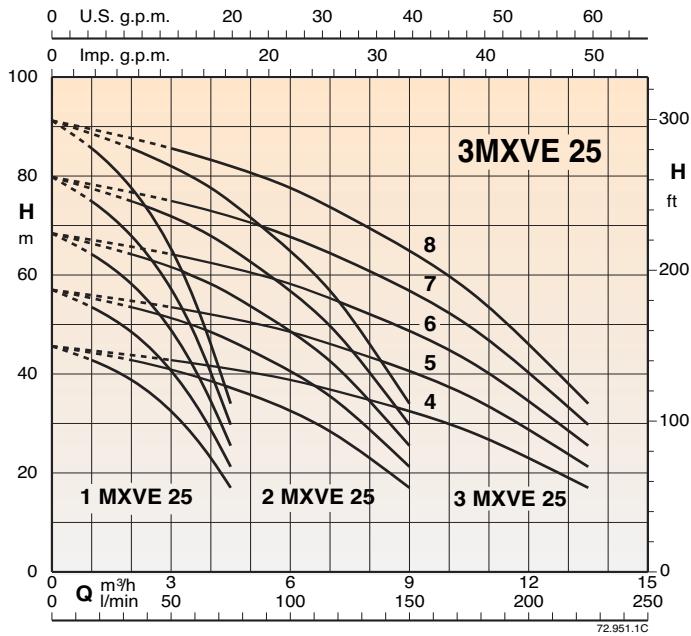
Other voltages and frequencies on request.

Vessels

When installing the unit, connect in the delivery section to a diaphragm or galvanised tank.

The recommended sizes are shown in the following page.

Coverage chart



Performance

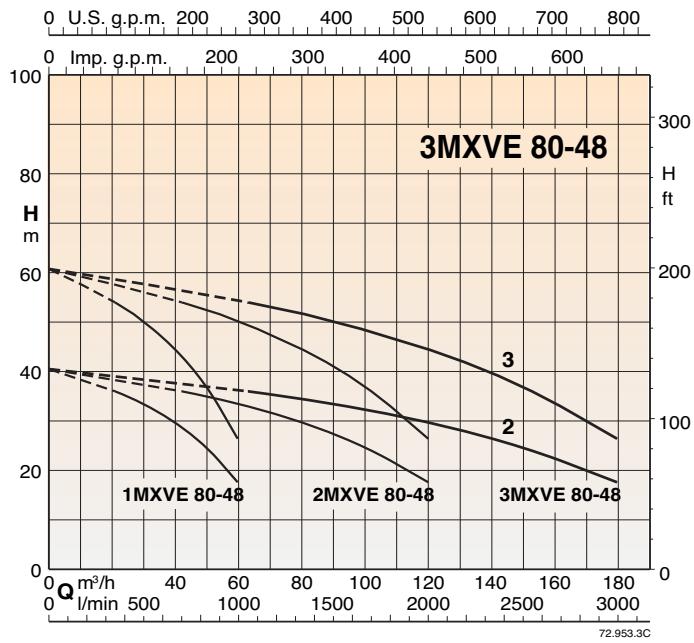
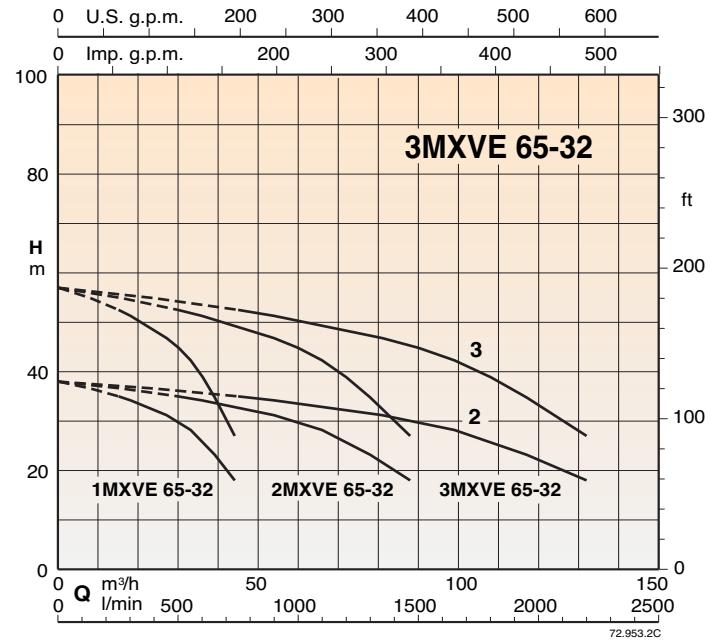
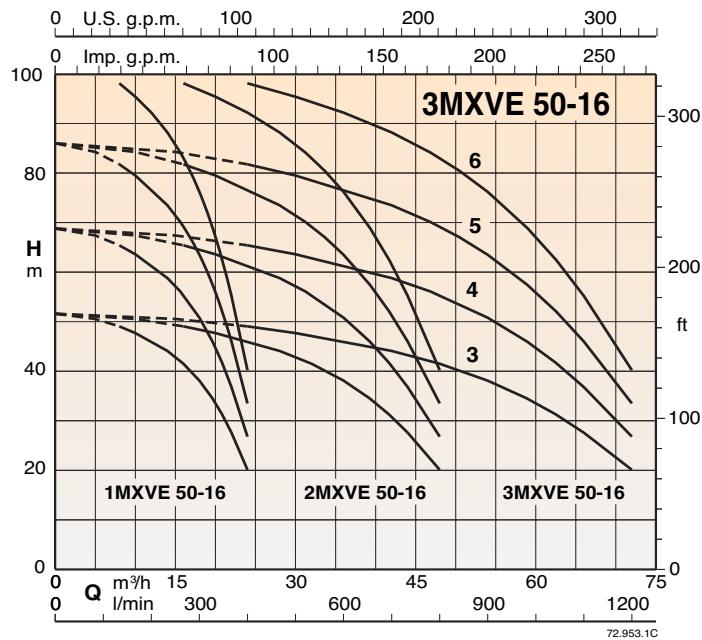
BS1V2F

Mains: 400V 3~ Motor: 400V 3~	Motor		Vessel Membrane litre
	kW	HP	
BS1V2F 1MXVE 25-204+2MXV 25-204	0,75+0,75x2	1+1x2	24x3
BS1V2F 1MXVE 25-205+2MXV 25-205	1,1+0,75x2	1,5+1x2	24x3
BS1V2F 1MXVE 25-206+2MXV 25-206	1,1+1,1x2	1,5+1,5x2	24x3
BS1V2F 1MXVE 25-207+2MXV 25-207	1,5+1,1x2	2+1,5x2	24x3
BS1V2F 1MXVE 25-208+2MXV 25-208	1,5+1,5x2	2+2x2	24x3
BS1V2F 1MXVE 32-404+2MXV 32-404	1,1+1,1x2	1,5+1,5x2	24x3
BS1V2F 1MXVE 32-405+2MXV 32-405	1,5+1,1x2	2+1,5x2	24x3
BS1V2F 1MXVE 32-406+2MXV 32-406	1,5+1,5x2	2+2x2	24x3
BS1V2F 1MXVE 32-407+2MXV 32-407	2,2+1,5x2	3+2x2	24x3
BS1V2F 1MXVE 32-408+2MXV 32-408	2,2+2,2x2	3+3x2	24x3
BS1V2F 1MXVE 40-804+2MXV 40-804	2,2+1,5x2	3+2x2	24x3
BS1V2F 1MXVE 40-805+2MXV 40-805	2,2+2,2x2	3+3x2	24x3
BS1V2F 1MXVE 40-807+2MXV 40-807	3+3x2	4+4x2	24x3
BS1V2F 1MXVE 40-808+2MXV 40-808	4+3x2	5,5+4x2	24x3

BS3V

Mains: 400V 3~ Motor: 400V 3~	Motor		Vessel Membrane litre
	kW	HP	
BS3V 3MXVE 25-204	0,75 x3	1 x3	24x3
BS3V 3MXVE 25-205	1,1 x3	1,5 x3	24x3
BS3V 3MXVE 25-206	1,1 x3	1,5 x3	24x3
BS3V 3MXVE 25-207	1,5 x3	2 x3	24x3
BS3V 3MXVE 25-208	1,5 x3	2 x3	24x3
BS3V 3MXVE 32-404	1,1 x3	1,5 x3	24x3
BS3V 3MXVE 32-405	1,5 x3	2 x3	24x3
BS3V 3MXVE 32-406	1,5 x3	2 x3	24x3
BS3V 3MXVE 32-407	2,2 x3	3 x3	24x3
BS3V 3MXVE 32-408	2,2 x3	3 x3	24x3
BS3V 3MXVE 40-804	2,2 x3	3 x3	24x3
BS3V 3MXVE 40-805	2,2 x3	3 x3	24x3
BS3V 3MXVE 40-807	3 x3	4 x3	24x3
BS3V 3MXVE 40-808	4 x3	5,5 x3	24x3

Coverage chart



Performance

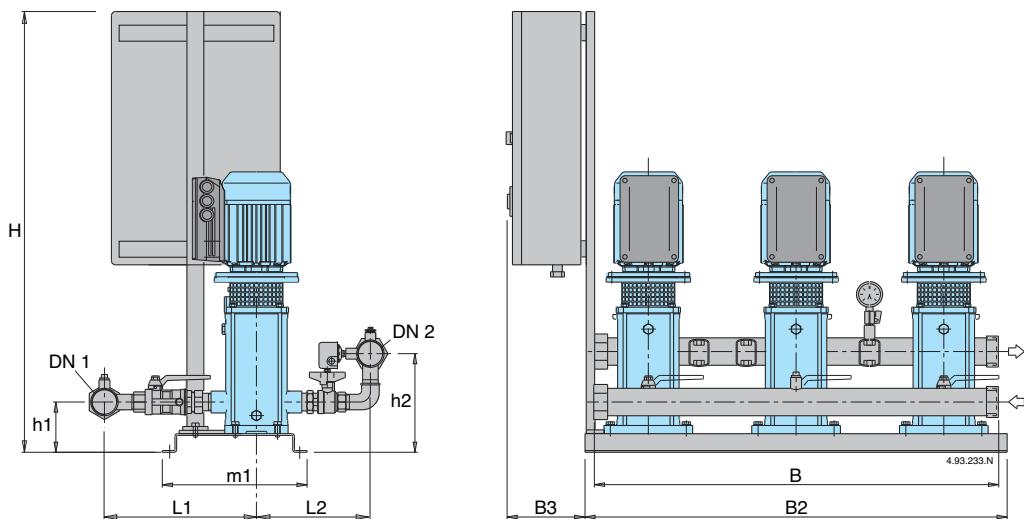
BS1V2F

Mains: 400V 3~ Motor: 400V 3~	Motor		Vessel Membrane litre
	kW	HP	
BS1V2F 1MXVE 50-1603+2MXV 50-1603	4+3x2	5,5+4x2	24x2
BS1V2F 1MXVE 50-1604+2MXV 50-1604	5,5+4x2	7,5+5,5x2	24x2
BS1V2F 1MXVE 50-1605+2MXV 50-1605	5,5+5,5x2	7,5+7,5x2	24x2
BS1V2F 1MXVE 50-1606+2MXV 50-1606	7,5+5,5x2	7,5+7,5x2	24x2
BS1V2F 1MXVE 65-3202+2MXV 65-3202	4+4x2	5,5+5,5x2	24x2
BS1V2F 1MXVE 65-3203+2MXV 65-3203	7,5+5,5x2	10+7,5x2	24x2
BS1V2F 1MXVE 80-4802+2MXV 80-4802	5,5+5,5x2	7,5+7,5x2	24x2
BS1V2F 1MXVE 80-4803+2MXV 80-4803	7,5+7,5x2	10+10x2	24x2

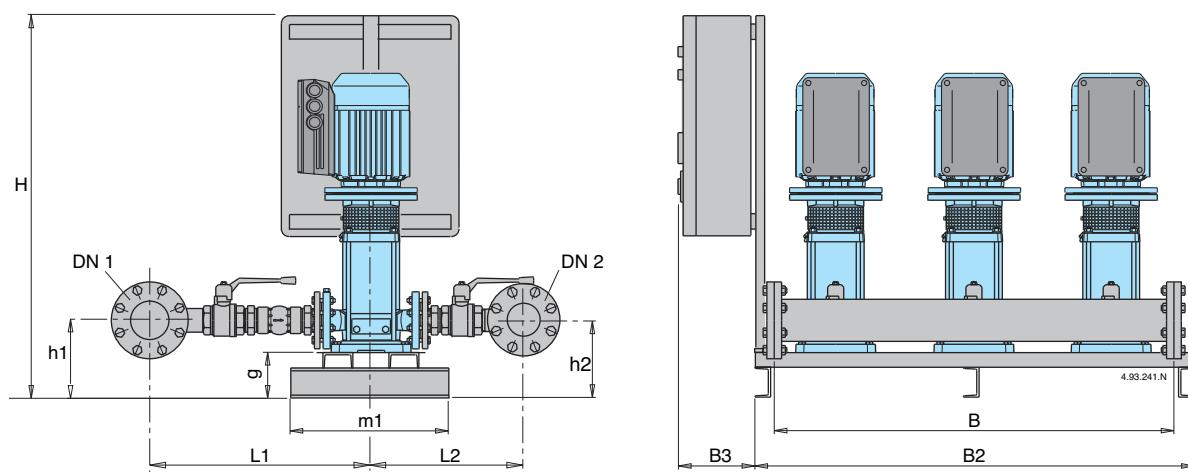
BS3V

Mains: 400V 3~ Motor: 400V 3~	Motor		Vessel Membrane litre
	kW	HP	
BS3V 3MXVE 50-1603	4 x3	5,5 x3	24x2
BS3V 3MXVE 50-1604	5,5 x3	7,5 x3	24x2
BS3V 3MXVE 50-1605	5,5 x3	7,5 x3	24x2
BS3V 3MXVE 50-1606	7,5 x3	10 x3	24x2
BS3V 3MXVE 65-3202	4 x3	5,5 x3	24x2
BS3V 3MXVE 65-3203	7,5 x3	10 x3	24x2
BS3V 3MXVE 80-4802	5,5 x3	7,5 x3	24x2
BS3V 3MXVE 80-4803	7,5 x3	10 x3	24x2

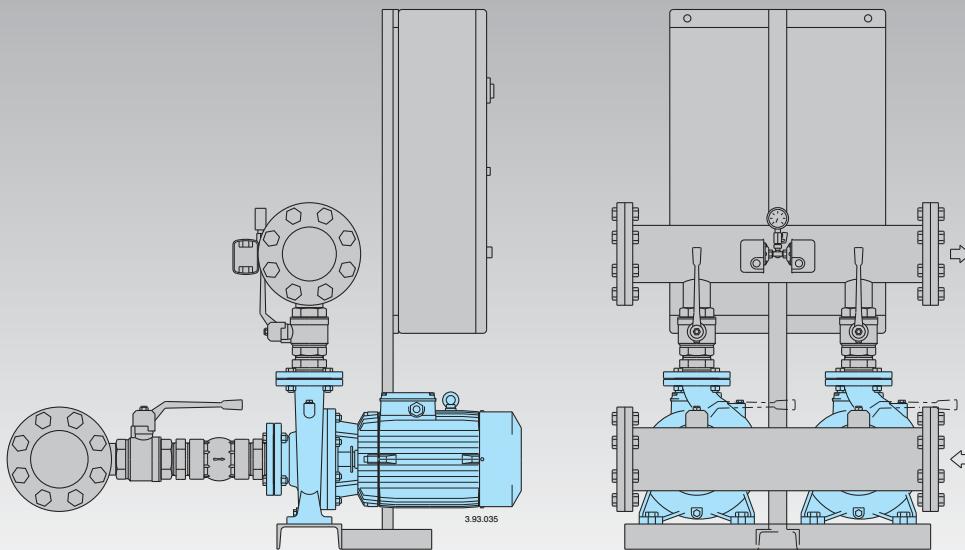
Dimensions and weights



TYPE	mm											kg
	DN1	DN2	H	h1	h2	L1	L2	B	B2	B3	m1	
BS.. 3MXVE 25-204												110
BS.. 3MXVE 25-205												112
BS.. 3MXVE 25-206	G 2	G 2	1060	134	233	337	254	950	1000	200	406	114
BS.. 3MXVE 25-207												116
BS.. 3MXVE 25-208												126
BS.. 3MXVE 32-404												113
BS.. 3MXVE 32-405												115
BS.. 3MXVE 32-406	G 2 ½	G 2 ½	1060	134	240	368	270	950	1000	200	406	125
BS.. 3MXVE 32-407												127
BS.. 3MXVE 32-408												137
BS.. 3MXVE 40-804												126
BS.. 3MXVE 40-805	G 3	G 3	1060	139	260	452	350	950	1000	200	406	136
BS.. 3MXVE 40-807												164
BS.. 3MXVE 40-808												166



TYPE	mm												kg
	DN1	DN2	H	h1	h2	L1	L2	B	B2	B3	m1	g	
BS.. 3MXVE 50-1603													362
BS.. 3MXVE 50-1604	100	100	1135	215	215	600	425	1150	1500	200	550	125	385
BS.. 3MXVE 50-1605													448
BS.. 3MXVE 50-1606													454
BS.. 3MXVE 65-3202	125	125	1135	230	230	672	487	1200	1500	200	550	125	448
BS.. 3MXVE 65-3203			1135										510
BS.. 3MXVE 80-4802	150	150	1135	230	230	738	508	1200	1500	250	550	125	518
BS.. 3MXVE 80-4803			1535										560



Construction

Automatic pressure boosting plant consisting of two centrifugal pumps complete with ball, non return valve on the suction side and ball valves on the discharge side.

Suction and delivery manifolds are in steel.

Electrical control boards:

- with microprocessor for fixed speed pump units (see page 386). Motor starting is D.O.L. up to 5,5 kW and Y/Δ for power rating 7,5 up to 55 kW.
- with frequency converter for variable speed pump units (see page 387).

The unit includes one pressure gauge and two adjustable differential pressure switches.

Operation

BS 2F Fixed speed pump

Depending on the reduction of the pressure in the system, the pressure switches determine the starting up of the pumps in sequence and the microprocessor alternates the starts.

BS1V1F Pumps at variable speed with one frequency converter

According to the water consumption, one or more pumps start, one at variable speed and the others at fixed speed, to grant the water quantity required at the set pressure.

BS2V Pumps at variable speed with two frequency converter

Depending on water consumption, one or more pumps are activated, all at variable speed, in order to guarantee the quantity of water required at the set pressure.

Applications

To supply water in civil and industrial buildings.

As pressure boosting pump to increase water pressure when needed (follow local rules).

Motors

2-pole induction motors, 50 Hz, n = 2900 rpm, suitable for operation with frequency converter.

- Three-phase 230/400V ± 10% up to 3 kW;
400/690V ± 10% from 4 to 55 kW.

Insulation class F.

Protection IP 54.

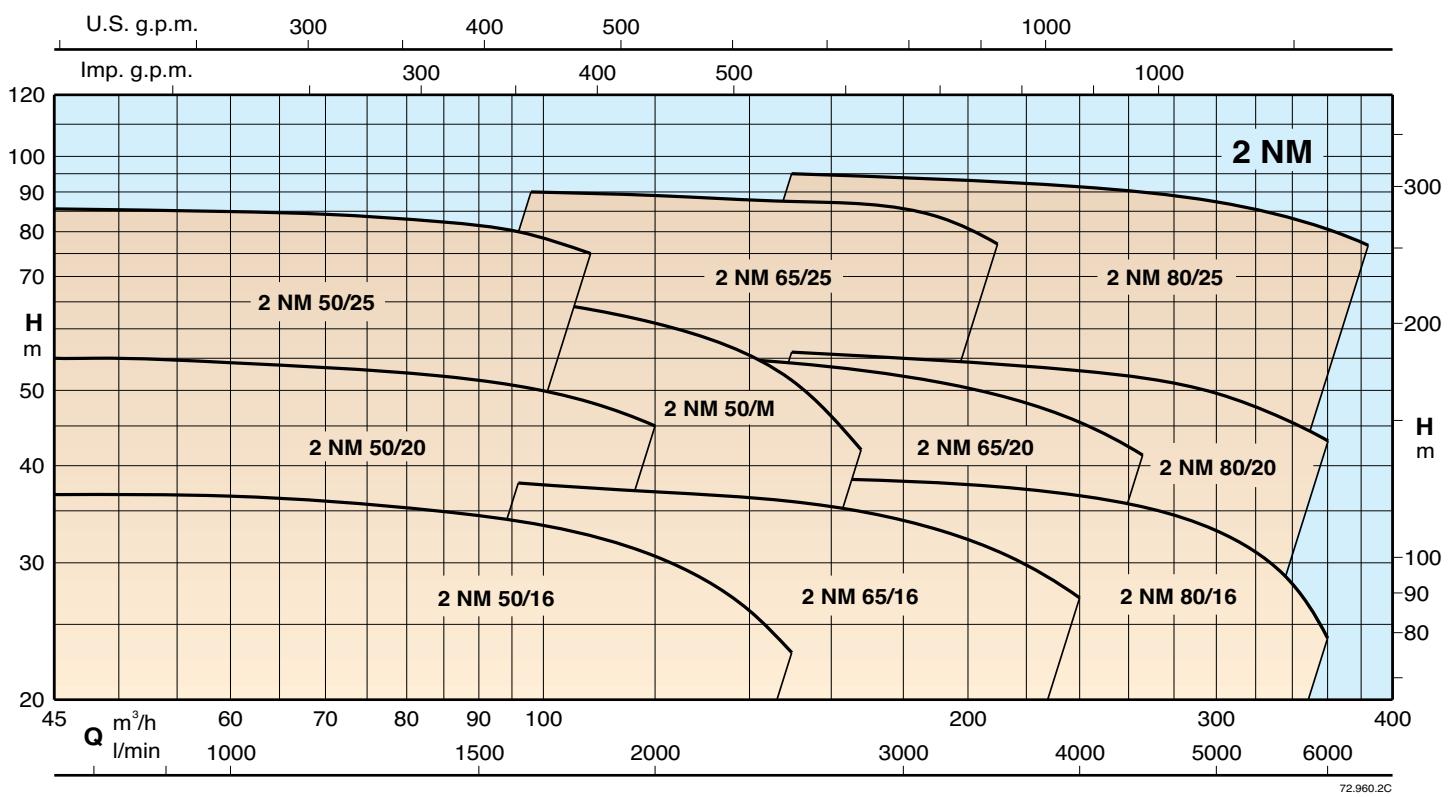
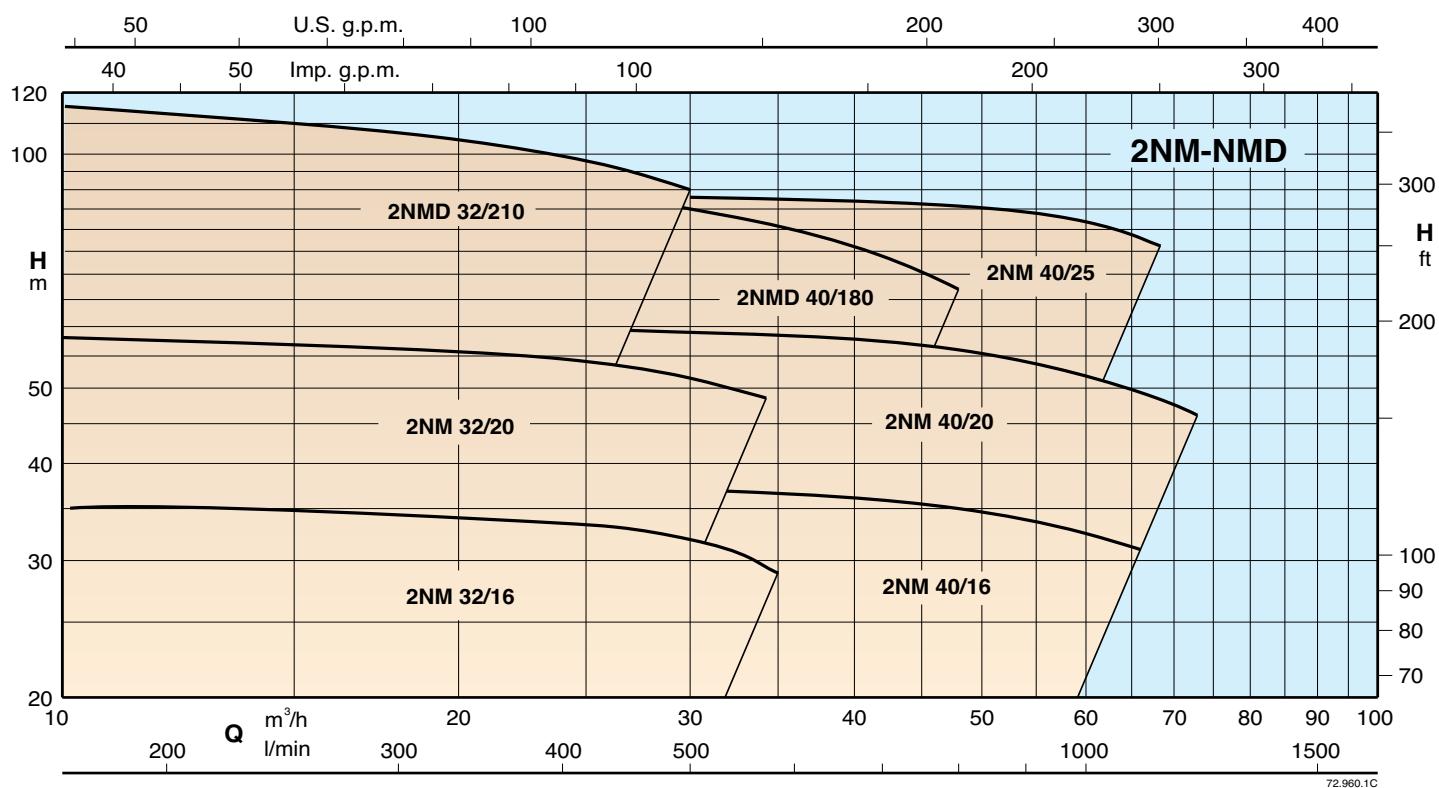
Constructed in accordance with: IEC 60034.

Other voltages and frequencies on request.

Vessels

When installing the unit, connect in the delivery section to a diaphragm or galvanised tank.
The recommended sizes are shown in the following page.

Coverage chart



Performance

BS2F

Mains: 400V 3~ Motor: 400V 3~	Motor		Q max*	Total head	Pres. switch	Pres. switch	S.Membrana	Vessel
	kW	HP	l/min	m	bar	bar	litre	litre
BS2F 2NM 32/16BE	1,5+1,5	2+2	560	29,5	2,2÷2,8	2,0÷2,6	500	1000
BS2F 2NM 32/16AE	2,2+2,2	3+3	560	35,5	2,7÷3,4	2,5÷3,2	500	1000
BS2F 2NM 32/20CE	3+3	4+4	560	45	3,2÷4,2	3,0÷4,0	500	750
BS2F 2NM 32/20AE	4+4	5,5+5,5	560	57,5	4,5÷5,5	4,0÷5,0	---	2000
BS2F 2NMD 32/210DE	4+4	5,5+5,5	440	71	5,0÷7,0	4,5÷6,5	500	1000
BS2F 2NMD 32/210CE	5,5+5,5	7,5+7,5	500	84	6,0÷8,0	5,5÷7,5	500	1000
BS2F 2NMD 32/210BE	7,5+7,5	10+10	500	104	8,0÷10	7,5÷9,5	---	1500
BS2F 2NMD 32/210AE	9,2+9,2	12,5+12,5	500	114	9,5÷11	9,0÷10,5	---	1500
BS2F 2NMD 40/180DE	4+4	5,5+5,5	800	60	4,0÷5,5	3,5÷5,0	500	1000
BS2F 2NMD 40/180CE	5,5+5,5	7,5+7,5	800	69	5,0÷6,5	4,5÷6,0	500	1000
BS2F 2NMD 40/180BE	7,5+7,5	10+10	800	87	6,7÷8,2	6,2÷7,7	---	1500
BS2F 2NMD 40/180AE	9,2+9,2	12,5+12,5	800	94	7,5÷9,0	7,0÷8,5	---	2000
BS2F 2NM 40/16B/A	3+3	4+4	1000	31,5	2,2÷2,8	2,0÷2,6	---	2000
BS2F 2NM 40/16A/A	4+4	5,5+5,5	1100	37	2,8÷3,5	2,6÷3,3	---	3000
BS2F 2NM 40/20BE	5,5+5,5	7,5+7,5	1100	51,5	3,8÷4,8	3,3÷4,3	---	3000
BS2F 2NM 40/20AE	7,5+7,5	10+10	1400	59	4,5÷5,5	4,0÷5,0	---	3000
BS2F 2NM 40/25B/A	11+11	15+15	1100	71,5	5,9÷6,9	5,6÷6,6	---	5000
BS2F 2NM 40/25A/A	15+15	20+20	1100	88	7,5÷8,5	7,2÷8,2	---	5000
BS2F 2NM 50/16B/A	5,5+5,5	7,5+7,5	2200	31	1,9÷2,9	1,5÷2,5	---	3000
BS2F 2NM 50/16A/A	7,5+7,5	10+10	2500	36,5	2,4÷3,4	2,0÷3,0	---	4000
BS2F 2NM 50/20B/A	9,2+9,2	12,5+12,5	2000	48	3,5÷4,5	3,2÷4,2	---	5000
BS2F 2NM 50/20A/A	11+11	15+15	2000	55	4,2÷5,2	4,0÷5,0	---	5000
BS2F 2NM 50/25C/A	11+11	15+15	1800	60,5	4,5÷5,5	4,0÷5,0	---	5000
BS2F 2NM 50/25B/A	15+15	20+20	1800	71	5,8÷6,8	5,5÷6,5	---	5000
BS2F 2NM 50/25A/A	18,5+18,5	25+25	1800	86	6,8÷7,8	6,5÷7,5	---	5000
BS2F 2NM 50M/EE	11+11	15+15	2500	48	3,5÷4,5	3,0÷4,0	---	5000
BS2F 2NM 50M/DE	15+15	20+20	2800	57	4,0÷5,2	3,5÷4,7	---	5000
BS2F 2NM 50M/CE	18,5+18,5	25+25	2800	68	5,0÷6,5	4,5÷6,0	---	5000
BS2F 2NM 65/16BE	11+11	15+15	4000	33,5	2,0÷3,0	1,7÷2,7	---	5000
BS2F 2NM 65/16AE	15+15	20+20	4000	38	2,5÷3,5	2,2÷3,2	---	5000
BS2F 2NM 65/20CE	15+15	20+20	4400	44	3,0÷4,0	2,5÷3,5	---	5000
BS2F 2NM 65/20BE	18,5+18,5	25+25	4400	50	3,6÷4,6	3,2÷4,2	---	5000
BS2F 2NM 65/200AE	22+22	30+30	4400	56,5	4,2÷5,2	3,8÷4,8	---	5000
BS2F 2NM 65/250CE	22+22	30+30	3600	64	5,0÷6,0	4,6÷5,6	---	5000
BS2F 2NM 65/250BE	30+30	40+40	3600	79,5	6,6÷7,6	6,2÷7,2	---	5000
BS2F 2NM 65/250AE	37+37	50+50	3600	90	7,7÷8,7	7,3÷8,3	---	5000
BS2F 2NM 80/16BE	15+15	20+20	6000	34	2,5÷3,5	2,0÷3,0	---	5000
BS2F 2NM 80/16AE	18,5+18,5	25+25	6000	38,5	2,0÷3,0	1,7÷2,7	---	5000
BS2F 2NM 80/200BE	22+22	30+30	6000	46,5	3,3÷4,3	3,0÷4,0	---	5000
BS2F 2NM 80/200AE	30+30	40+40	6000	56	4,3÷5,3	4,0÷5,0	---	5000
BS2F 2NM 80/250EE	22+22	30+30	6000	51	3,8÷4,8	3,2÷4,2	---	5000
BS2F 2NM 80/250DE	30+30	40+40	6400	65	4,5÷6,0	4,0÷5,5	---	5000
BS2F 2NM 80/250CE	37+37	50+50	6400	73,5	5,5÷7,0	5,0÷6,5	---	5000
BS2F 2NM 80/250BE	45+45	60+60	6400	84	6,5÷8,0	6,0÷7,5	---	5000
BS2F 2NM 80/250AE	55+55	75+75	6400	95	8,0÷9,0	7,5÷8,5	---	5000

* Maximum pumps flow at minimum set pressure of 2nd pressure switch.

Performance

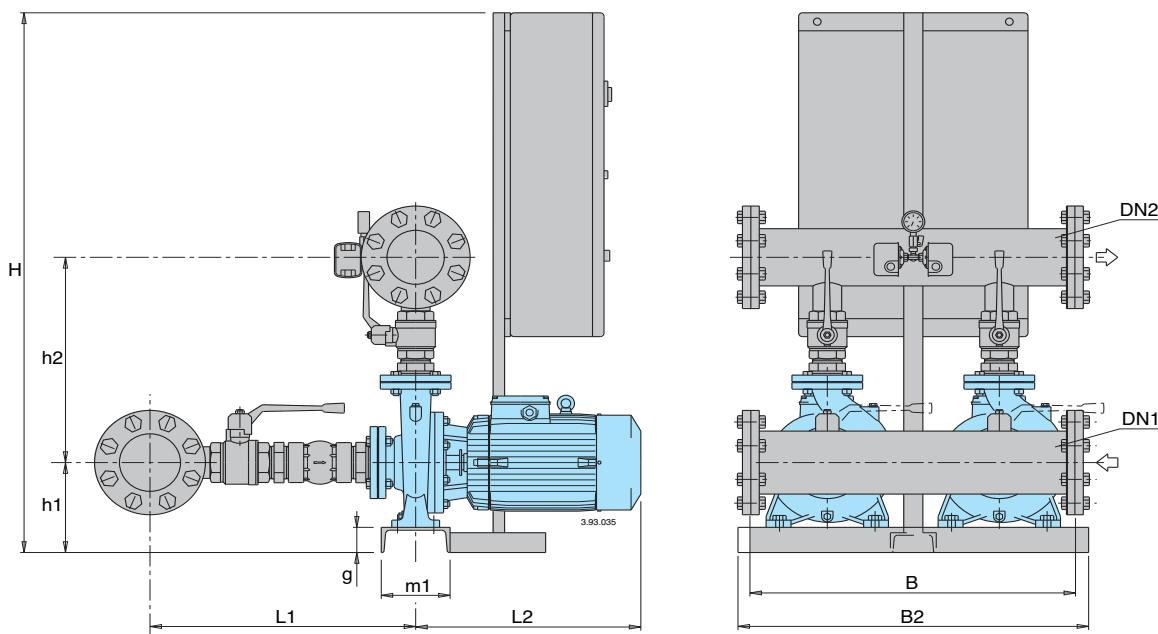
BS1V1F

Mains: 400V 3~ Motor: 400V 3~	Motor		Vessel Membrane litre
	kW	HP	
BS1V1F 2NM 32/16BE	1,5 x2	2 x2	24
BS1V1F 2NM 32/16AE	2,2 x2	3 x2	24
BS1V1F 2NM 32/20CE	3 x2	4 x2	24
BS1V1F 2NM 32/20AE	4 x2	5,5 x2	24
BS1V1F 2NMD 32/210DE	4 x2	5,5 x2	24
BS1V1F 2NMD 32/210CE	5,5 x2	7,5 x2	24
BS1V1F 2NMD 32/210BE	7,5 x2	10 x2	24
BS1V1F 2NMD 32/210AE	9,2 x2	12,5 x2	24
BS1V1F 2NMD 40/180DE	4 x2	5,5 x2	24
BS1V1F 2NMD 40/180CE	5,5 x2	7,5 x2	24
BS1V1F 2NMD 40/180BE	7,5 x2	10 x2	24
BS1V1F 2NMD 40/180AE	9,2 x2	12,5 x2	24
BS1V1F 2NM 40/16B/A	3 x2	4 x2	24
BS1V1F 2NM 40/16A/A	4 x2	5,5 x2	24
BS1V1F 2NM 40/20BE	5,5 x2	7,5 x2	24
BS1V1F 2NM 40/20AE	7,5 x2	10 x2	24
BS1V1F 2NM 40/25B/A	11 x2	15 x2	24
BS1V1F 2NM 40/25A/A	15 x2	20 x2	24
BS1V1F 2NM 50/16B/A	5,5 x2	7,5 x2	24
BS1V1F 2NM 50/16A/A	7,5 x2	10 x2	24
BS1V1F 2NM 50/20B/A	9,2 x2	12,5 x2	24
BS1V1F 2NM 50/20A/A	11 x2	15 x2	24
BS1V1F 2NM 50/25C/A	11 x2	15 x2	24
BS1V1F 2NM 50/25B/A	15 x2	20 x2	24
BS1V1F 2NM 50/25A/A	18,5 x2	25 x2	24
BS1V1F 2NM 50M/EE	11 x2	15 x2	24
BS1V1F 2NM 50M/DE	15 x2	20 x2	24
BS1V1F 2NM 50M/CE	18,5 x2	25 x2	24
BS1V1F 2NM 65/16BE	11 x2	15 x2	24
BS1V1F 2NM 65/16AE	15 x2	20 x2	24
BS1V1F 2NM 65/20CE	15 x2	20 x2	24
BS1V1F 2NM 65/20BE	18,5 x2	25 x2	24
BS1V1F 2NM 65/200AE	22 x2	30 x2	24
BS1V1F 2NM 65/250CE	22 x2	30 x2	24
BS1V1F 2NM 65/250BE	30 x2	40 x2	24
BS1V1F 2NM 65/250AE	37 x2	50 x2	24
BS1V1F 2NM 80/16BE	15 x2	20 x2	24
BS1V1F 2NM 80/16AE	18,5 x2	25 x2	24
BS1V1F 2NM 80/200BE	22 x2	30 x2	24
BS1V1F 2NM 80/200AE	30 x2	40 x2	24
BS1V1F 2NM 80/250EE	22 x2	30 x2	24
BS1V1F 2NM 80/250DE	30 x2	40 x2	24
BS1V1F 2NM 80/250CE	37 x2	50 x2	24
BS1V1F 2NM 80/250BE	45 x2	60 x2	24
BS1V1F 2NM 80/250AE	55 x2	75 x2	24

BS2V

Mains: 400V 3~ Motor: 400V 3~	Motor		Vessel Membrane litre
	kW	HP	
BS2V 2NM 32/16BE	1,5 x2	2 x2	24
BS2V 2NM 32/16AE	2,2 x2	3 x2	24
BS2V 2NM 32/20CE	3 x2	4 x2	24
BS2V 2NM 32/20AE	4 x2	5,5 x2	24
BS2V 2NMD 32/210DE	4 x2	5,5 x2	24
BS2V 2NMD 32/210CE	5,5 x2	7,5 x2	24
BS2V 2NMD 32/210BE	7,5 x2	10 x2	24
BS2V 2NMD 32/210AE	9,2 x2	12,5 x2	24
BS2V 2NMD 40/180DE	4 x2	5,5 x2	24
BS2V 2NMD 40/180CE	5,5 x2	7,5 x2	24
BS2V 2NMD 40/180BE	7,5 x2	10 x2	24
BS2V 2NMD 40/180AE	9,2 x2	12,5 x2	24
BS2V 2NM 40/16B/A	3 x2	4 x2	24
BS2V 2NM 40/16A/A	4 x2	5,5 x2	24
BS2V 2NM 40/20BE	5,5 x2	7,5 x2	24
BS2V 2NM 40/20AE	7,5 x2	10 x2	24
BS2V 2NM 40/25B/A	11 x2	15 x2	24
BS2V 2NM 40/25A/A	15 x2	20 x2	24
BS2V 2NM 50/16B/A	5,5 x2	7,5 x2	24
BS2V 2NM 50/16A/A	7,5 x2	10 x2	24
BS2V 2NM 50/20B/A	9,2 x2	12,5 x2	24
BS2V 2NM 50/20A/A	11 x2	15 x2	24
BS2V 2NM 50/25C/A	11 x2	15 x2	24
BS2V 2NM 50/25B/A	15 x2	20 x2	24
BS2V 2NM 50/25A/A	18,5 x2	25 x2	24
BS2V 2NM 50M/EE	11 x2	15 x2	24
BS2V 2NM 50M/DE	15 x2	20 x2	24
BS2V 2NM 50M/CE	18,5 x2	25 x2	24
BS2V 2NM 65/16BE	11 x2	15 x2	24
BS2V 2NM 65/16AE	15 x2	20 x2	24
BS2V 2NM 65/20CE	15 x2	20 x2	24
BS2V 2NM 65/20BE	18,5 x2	25 x2	24
BS2V 2NM 65/200AE	22 x2	30 x2	24
BS2V 2NM 65/250CE	22 x2	30 x2	24
BS2V 2NM 65/250BE	30 x2	40 x2	24
BS2V 2NM 65/250AE	37 x2	50 x2	24
BS2V 2NM 80/16BE	15 x2	20 x2	24
BS2V 2NM 80/16AE	18,5 x2	25 x2	24
BS2V 2NM 80/200BE	22 x2	30 x2	24
BS2V 2NM 80/200AE	30 x2	40 x2	24
BS2V 2NM 80/250EE	22 x2	30 x2	24
BS2V 2NM 80/250DE	30 x2	40 x2	24
BS2V 2NM 80/250CE	37 x2	50 x2	24
BS2V 2NM 80/250BE	45 x2	60 x2	24
BS2V 2NM 80/250AE	55 x2	75 x2	24

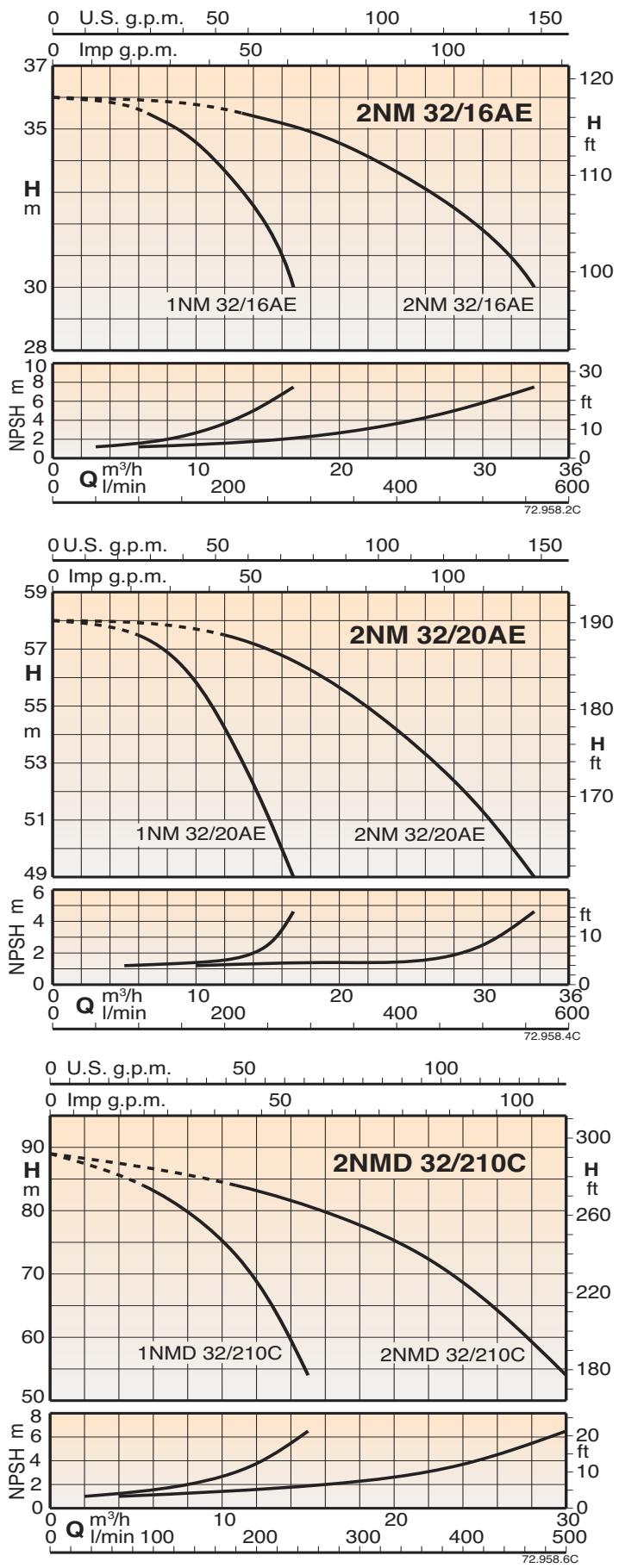
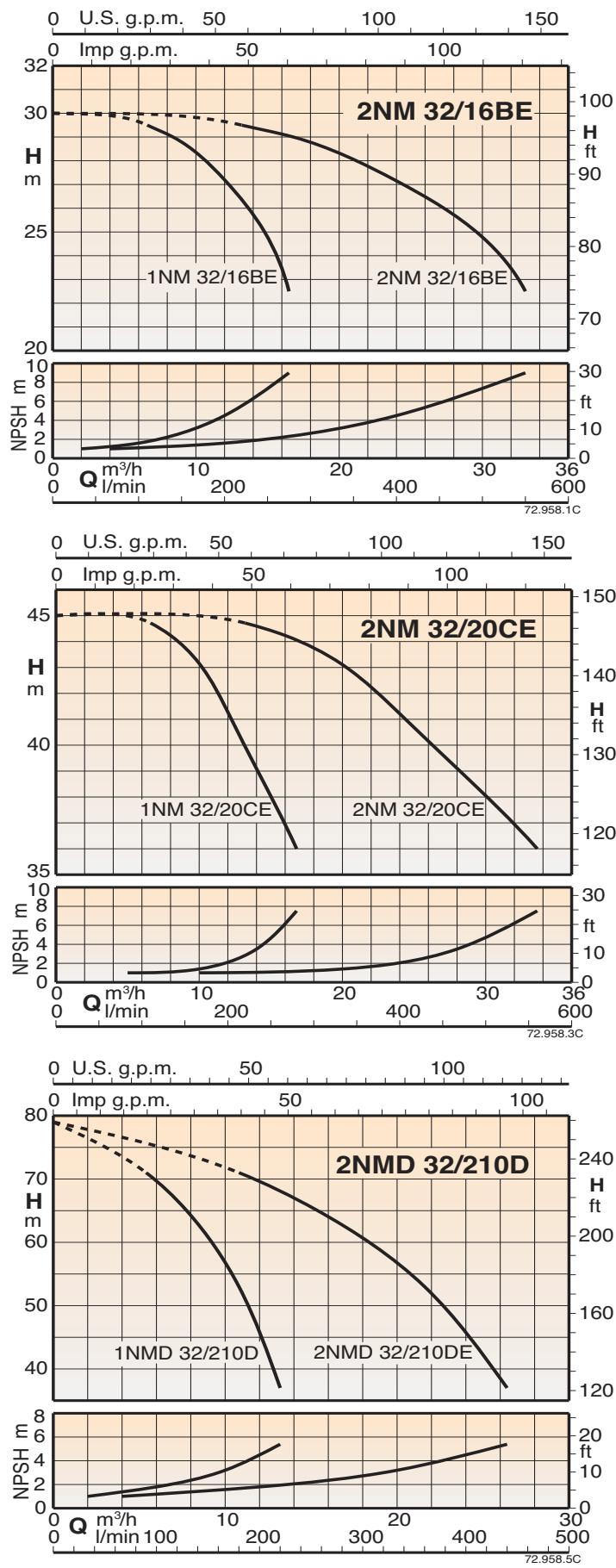
Dimensions



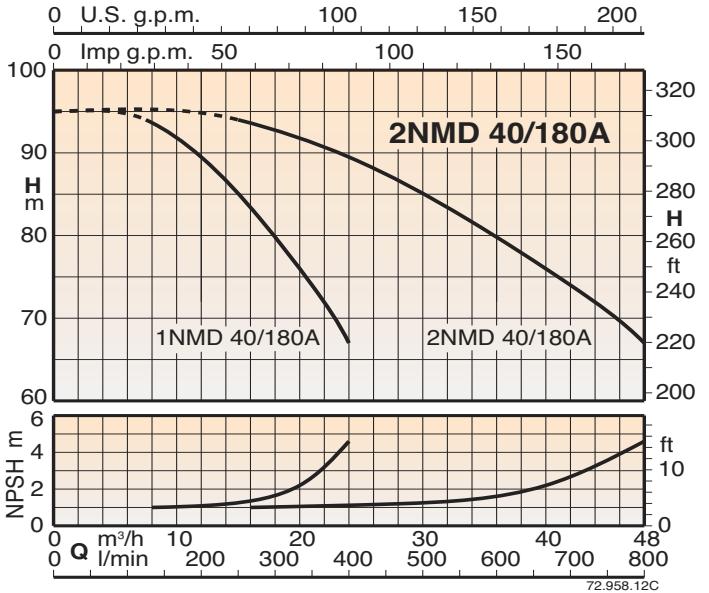
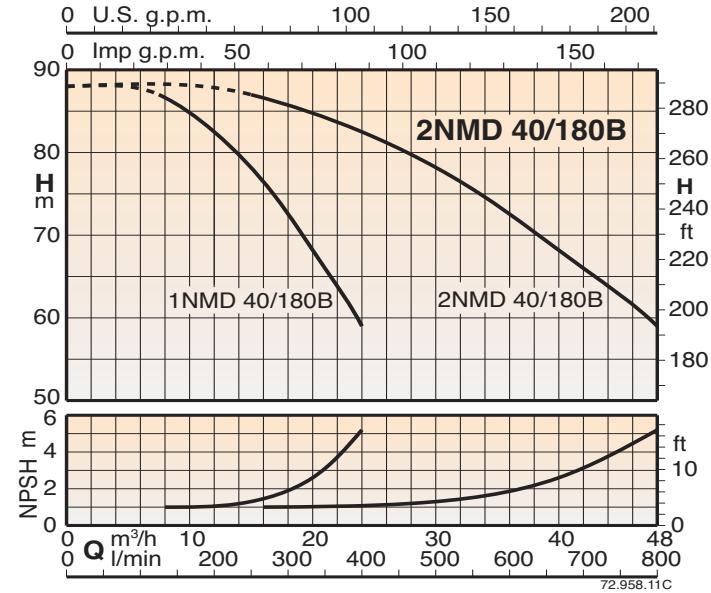
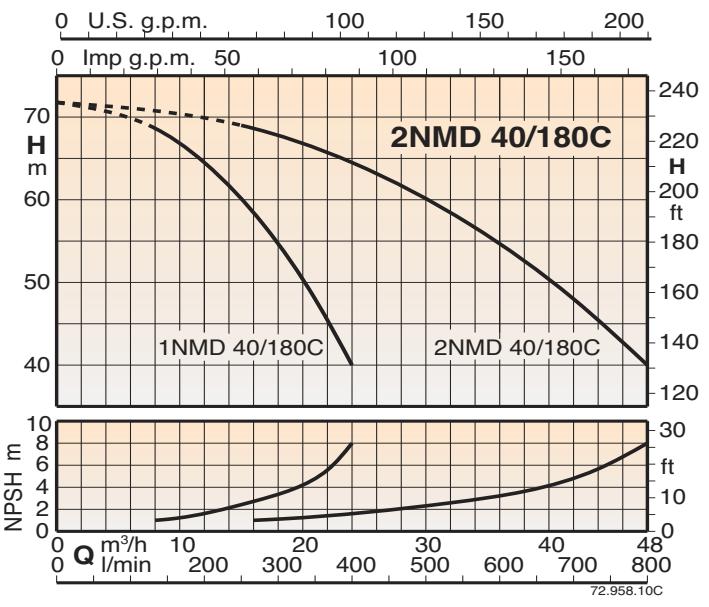
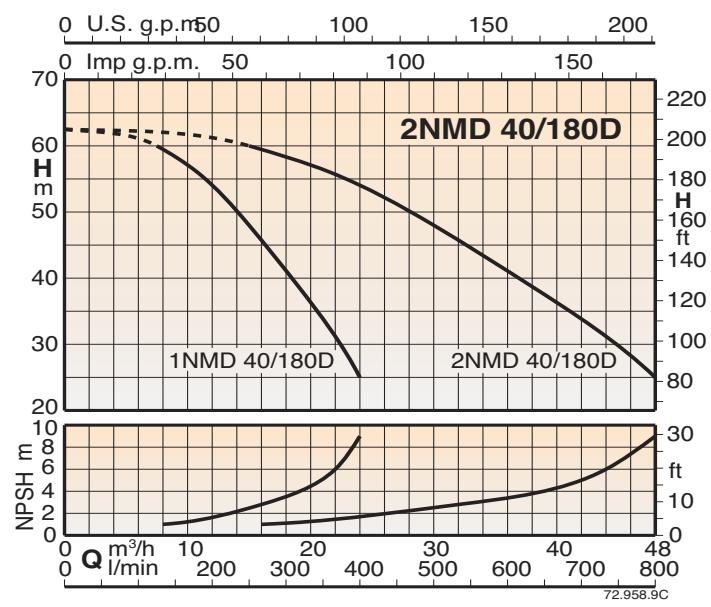
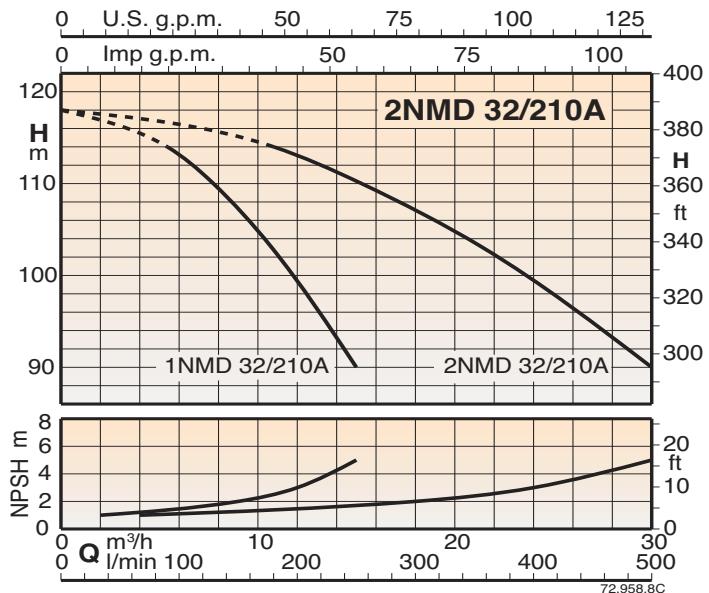
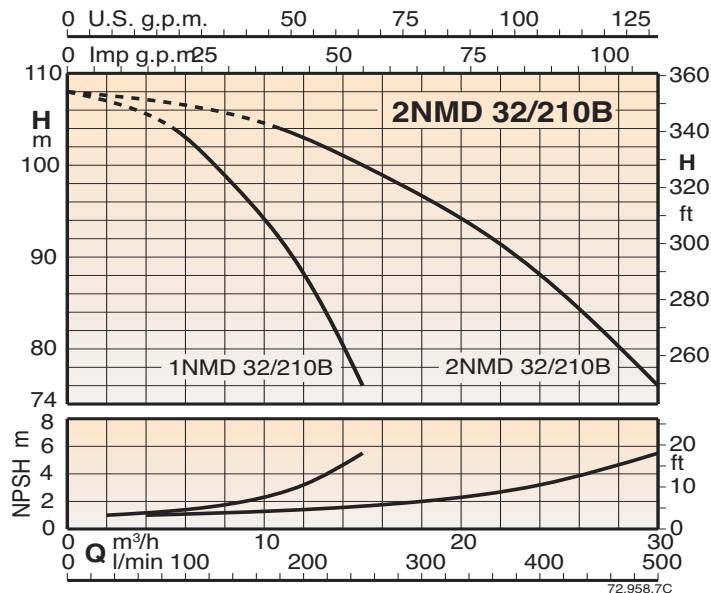
TYPE	DN1	DN2	mm								
			H	h1	h2	L2	L1	B	B2	m1	g
BS.. 2NM 32/16BE	G 3	G 2 1/2	835	165	345	330	490	600	625	235	5
BS.. 2NM 32/16AE	G 3	G 2 1/2	835	195	365	390	490	600	625	235	5
BS.. 2NM 32/20CE	G 3	G 2 1/2	865	155		415					
BS.. 2NM 32/20AE	G 3	G 2 1/2	1070	182		440					
BS.. 2NMD 32/210DE	G 3	G 2 1/2	1370	182	380	440	480	700	800	400	5
BS.. 2NMD 32/210CE	G 3	G 2 1/2	1370	217		515					
BS.. 2NMD 32/210BE	G 3	G 2 1/2	1385								
BS.. 2NMD 32/210AE	G 3	G 2 1/2	865	155		410					
BS.. 2NMD 40/180DE	G 3	G 2 1/2	1070	182		435					
BS.. 2NMD 40/180CE	G 3	G 2 1/2	1370	182		435					
BS.. 2NMD 40/180BE	G 3	G 2 1/2	1385	217		510					
BS.. 2NMD 40/180AE	G 3	G 2 1/2	865	155		410					
BS.. 2NM 40/16B/A	100	80	855	187	380	390	570	820	800	400	5
BS.. 2NM 40/16A/A	100	80	1055								
BS.. 2NM 40/20BE	100	80	1355	215	400	425	590	820	800	400	5
BS.. 2NM 40/20AE	100	80	1360	240	440	540	590	820	900	140	60
BS.. 2NM 40/25B/A	100	80	1360	240	440	590	590	820	900	120	55
BS.. 2NM 40/25A/A	100	80	1360	240	440	590	590	820	900	140	60
BS.. 2NM 50/16B/A	125	100	1055								
BS.. 2NM 50/16A/A	125	100	1355	215	435	425	600	820	900	120	55
BS.. 2NM 50/20B/A	125	100	1355	215	455	540	600	820	900	120	55
BS.. 2NM 50/20A/A	125	100	1355	215	455	540	600	820	900	120	55
BS.. 2NM 50/25C/A	125	100	1360								
BS.. 2NM 50/25B/A	125	100	1360	240	480	545	600	820	900	140	60
BS.. 2NM 50/25A/A	125	100	1560								
BS.. 2NM 50M/EE	150	125	1385								
BS.. 2NM 50M/DE	150	125	1385	217	495	600	825	920	900	240	85
BS.. 2NM 50M/CE	150	125	1585								
BS.. 2NM 65/16BE	200	150	1360	220	525	540	720	920	900	140	60
BS.. 2NM 65/16AE	200	150	1360	220	525	590	720				
BS.. 2NM 65/20CE	200	150	1360	240		590	720			140	60
BS.. 2NM 65/20BE	200	150	1560	240		615	720			140	60
BS.. 2NM 65/200AE	200	150	1600	260		720	720			300	100
BS.. 2NM 65/250CE	200	150	1600	260		720	720			300	100
BS.. 2NM 65/250BE	200	150	1600	260		845	720			300	100
BS.. 2NM 65/250AE	200	150	1810	310		845	720			400	110
BS.. 2NM 80/16BE	250	200	1360	240	615	555	700	1050	1100	140	60
BS.. 2NM 80/16AE	250	200	1560	240	615	620	700				
BS.. 2NM 80/200BE	250	200	1600	260	640	720	700	1050	1100	300	100
BS.. 2NM 80/200AE	250	200	1600	260	640	720	700				
BS.. 2NM 80/250EE	250	200	1600	260		720	700			300	100
BS.. 2NM 80/250DE	250	200	1600	260		720	700			300	100
BS.. 2NM 80/250CE	250	200	1810	310		845	700	1200	1300	400	110
BS.. 2NM 80/250BE	250	200	1810	310		845	700			400	110
BS.. 2NM 80/250AE	250	200	1810*	310		845	700			400	110

* Cabinet version

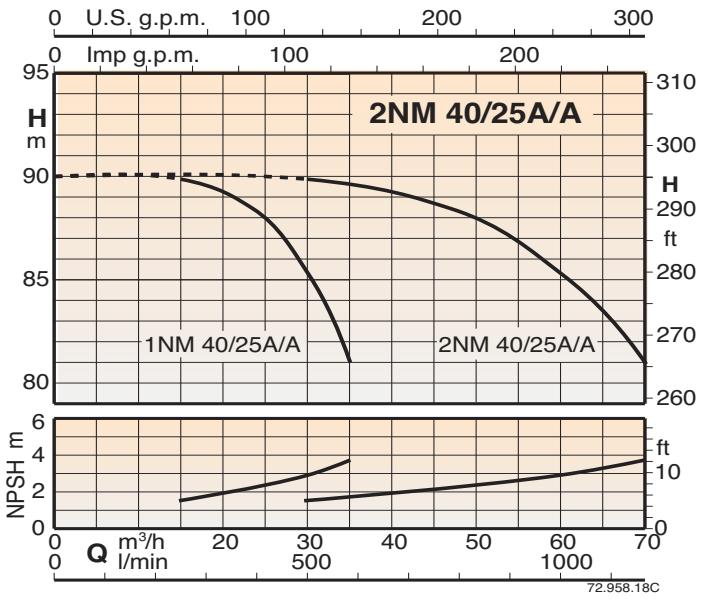
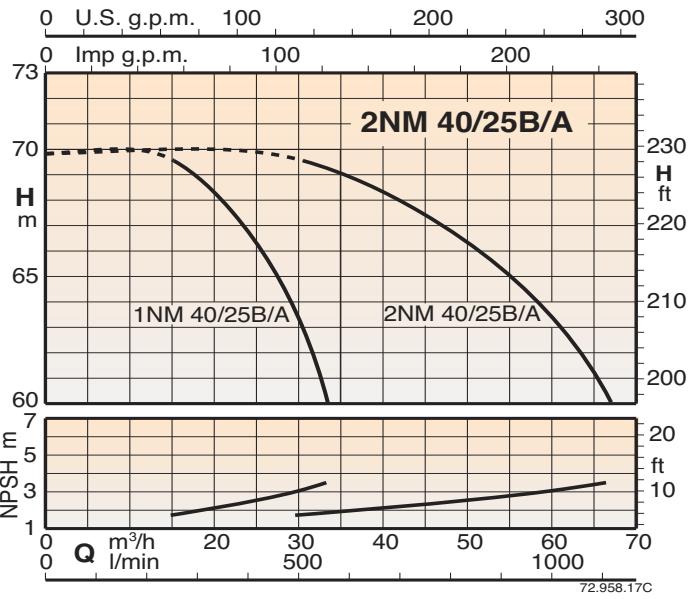
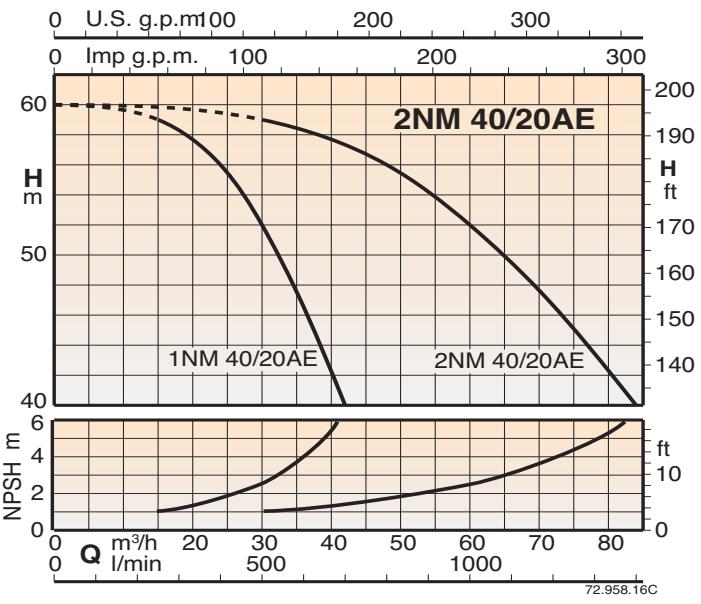
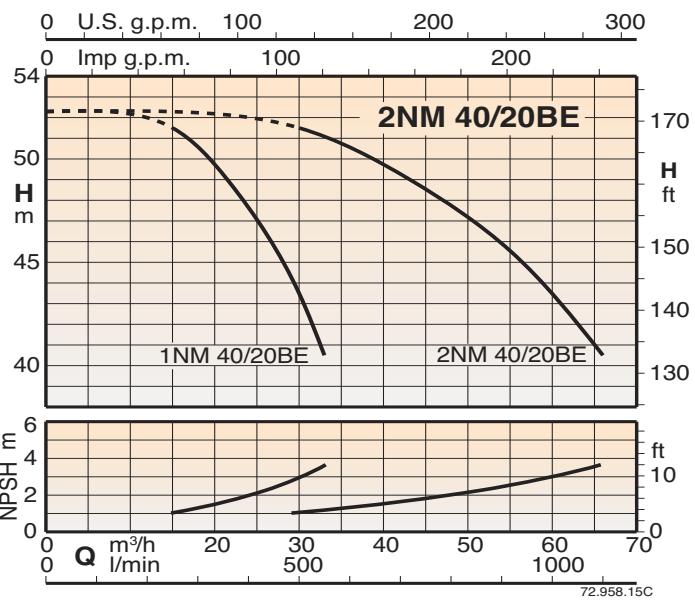
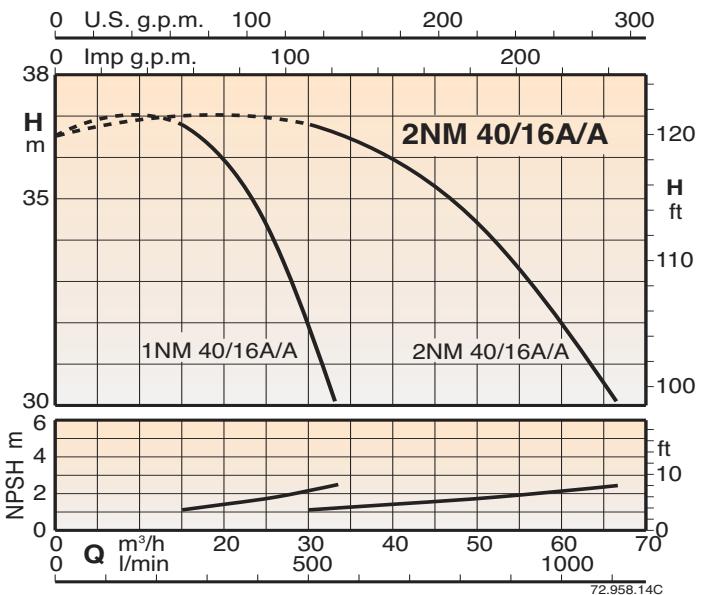
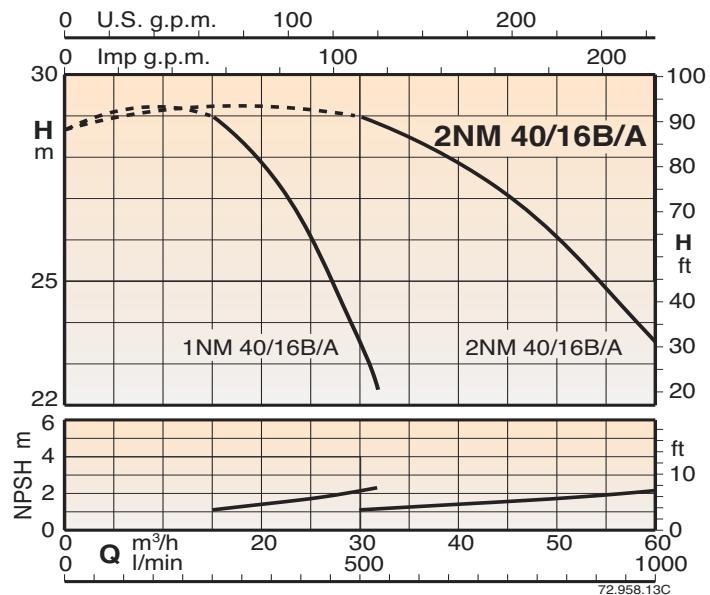
Coverage chart



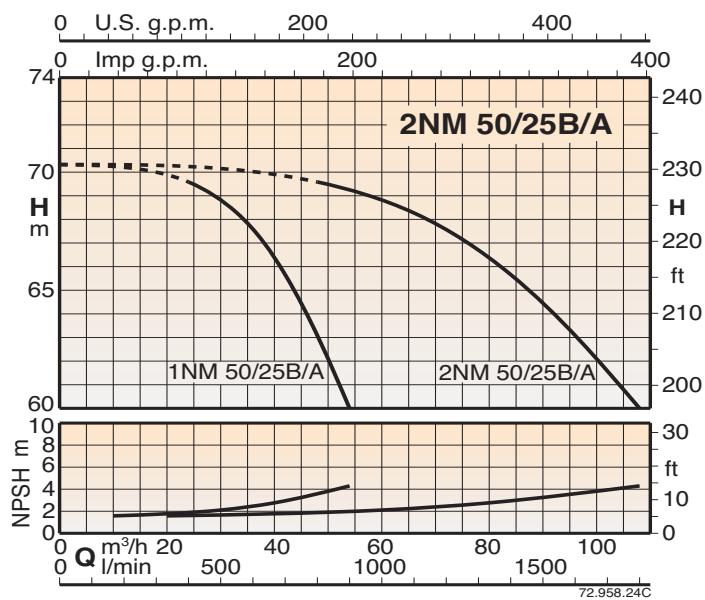
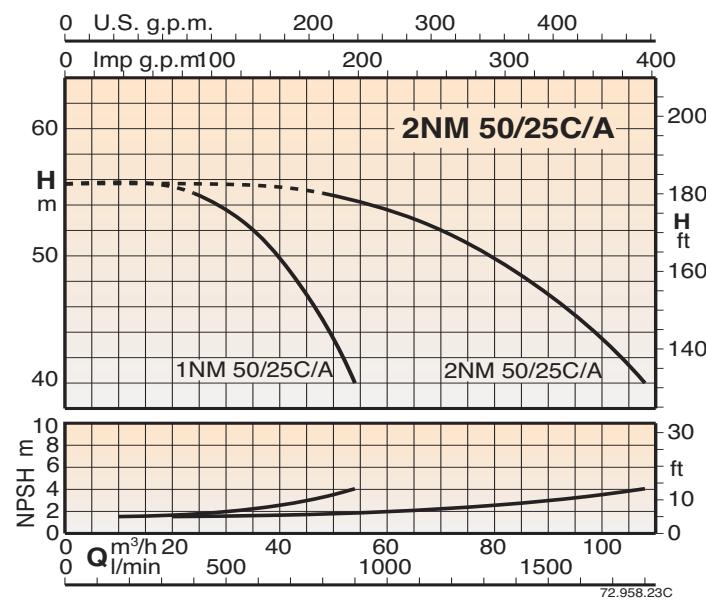
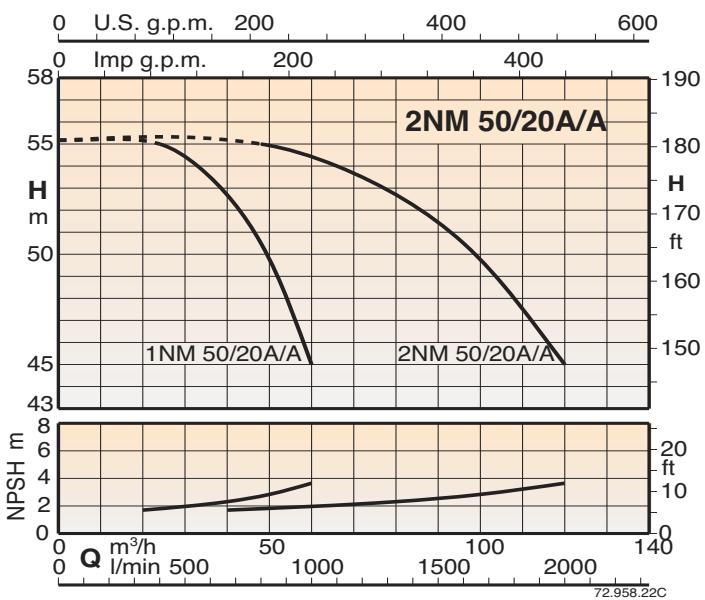
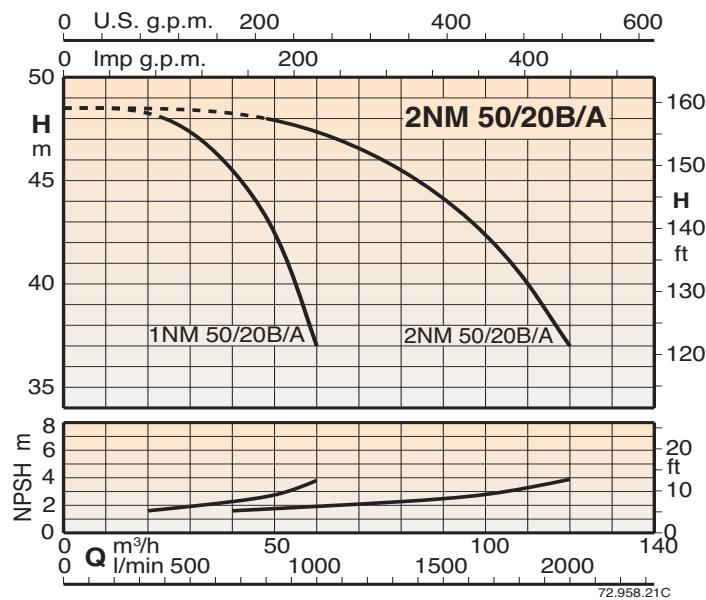
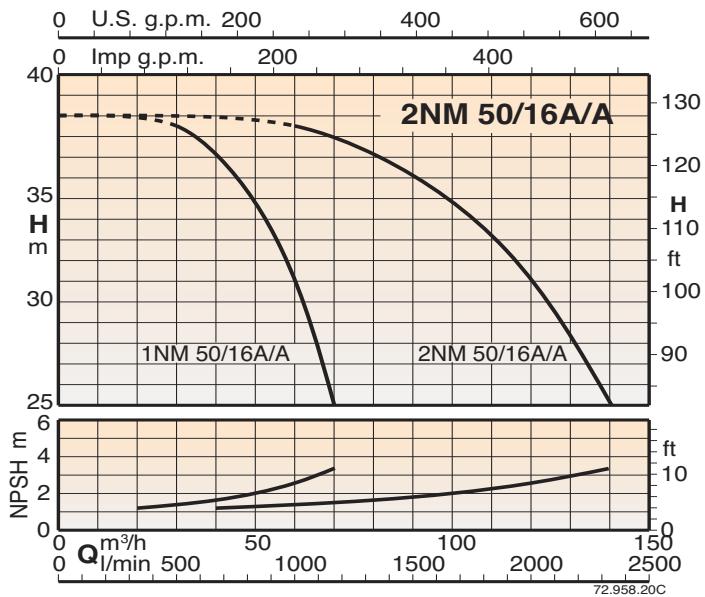
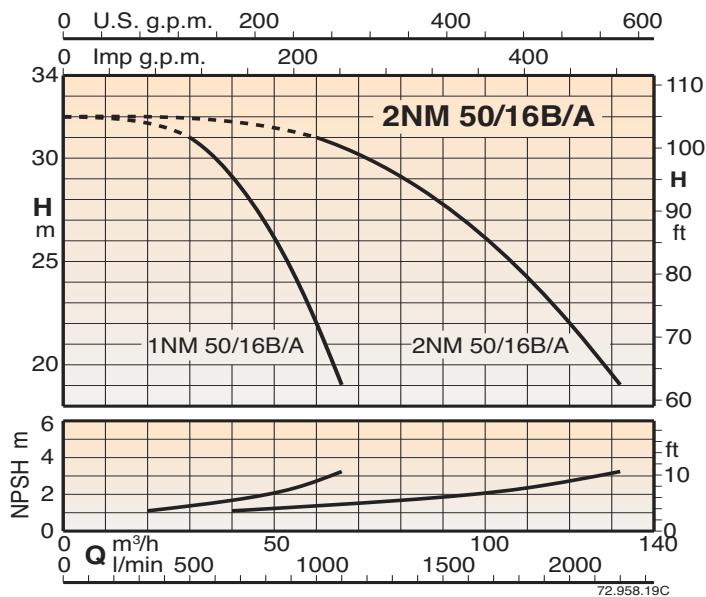
Coverage chart



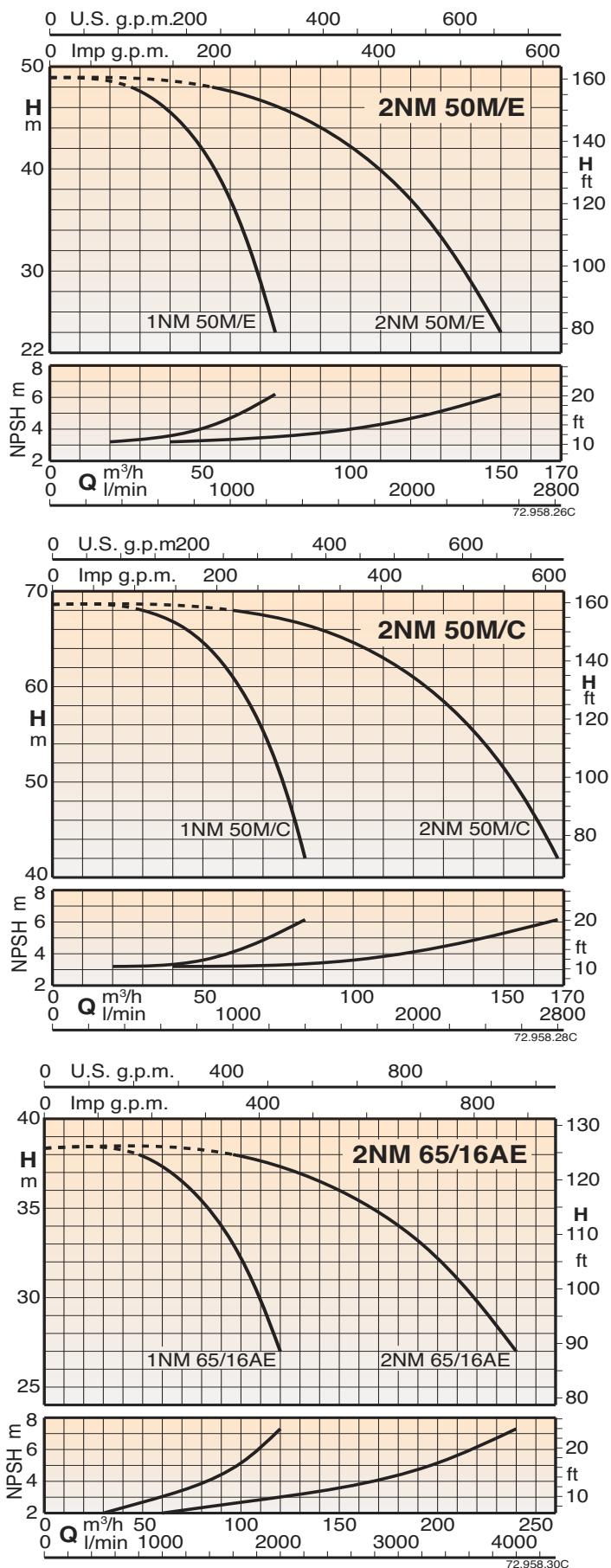
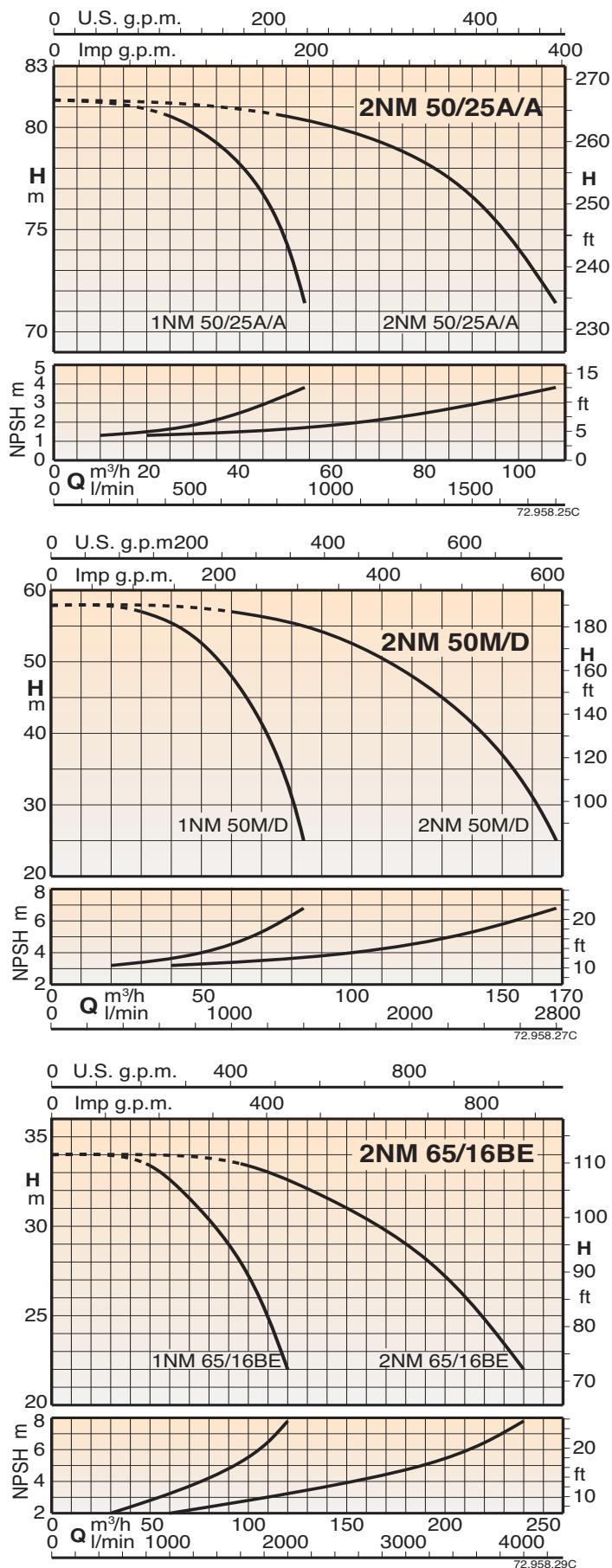
Coverage chart



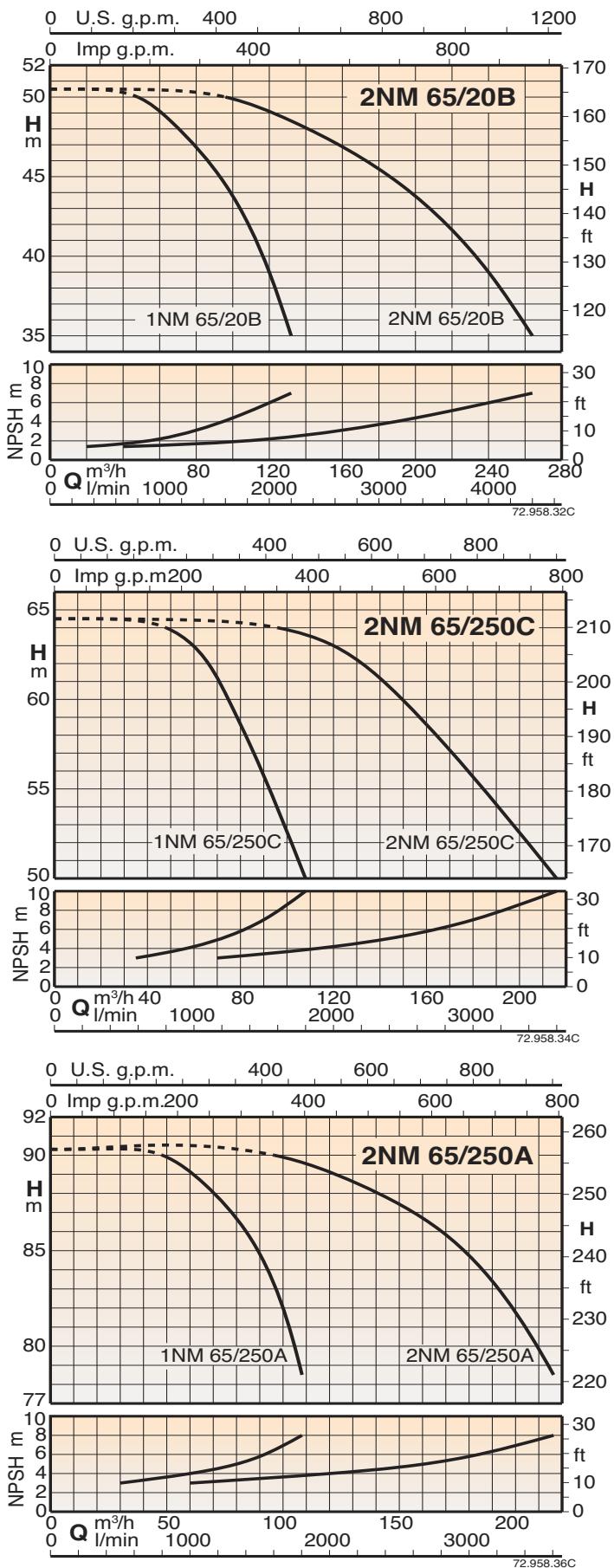
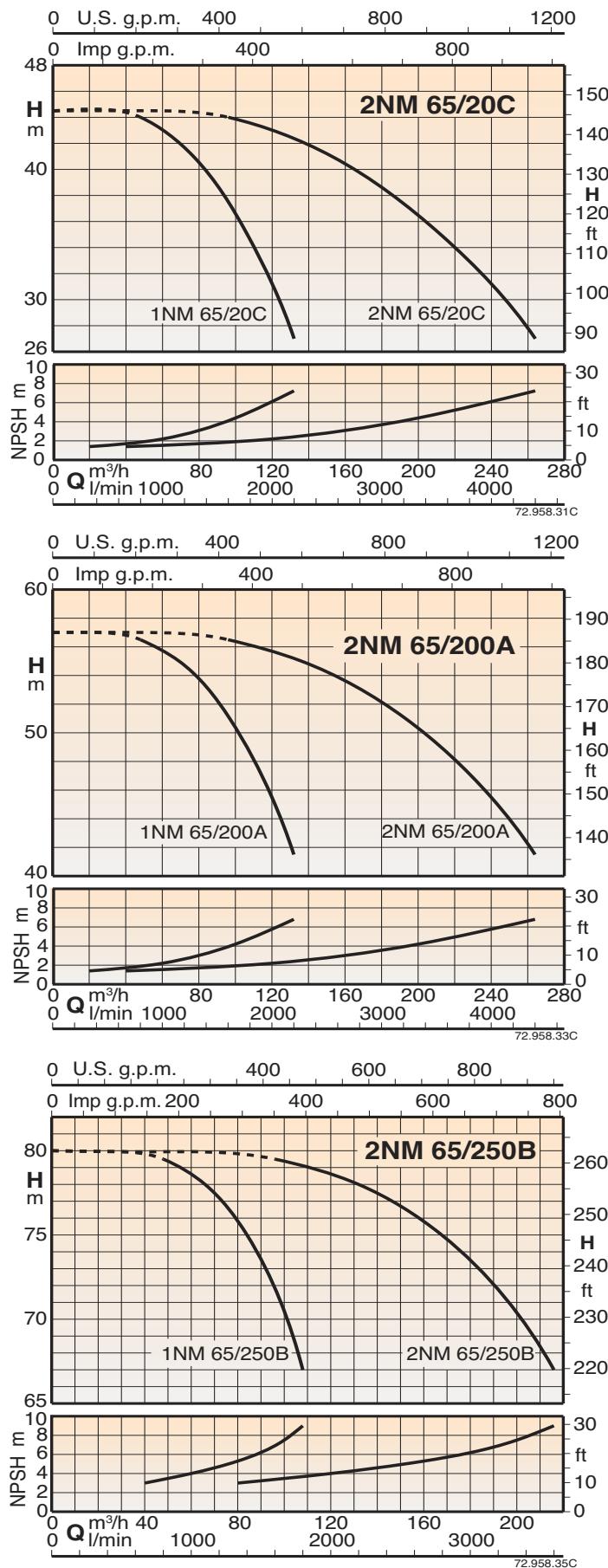
Coverage chart



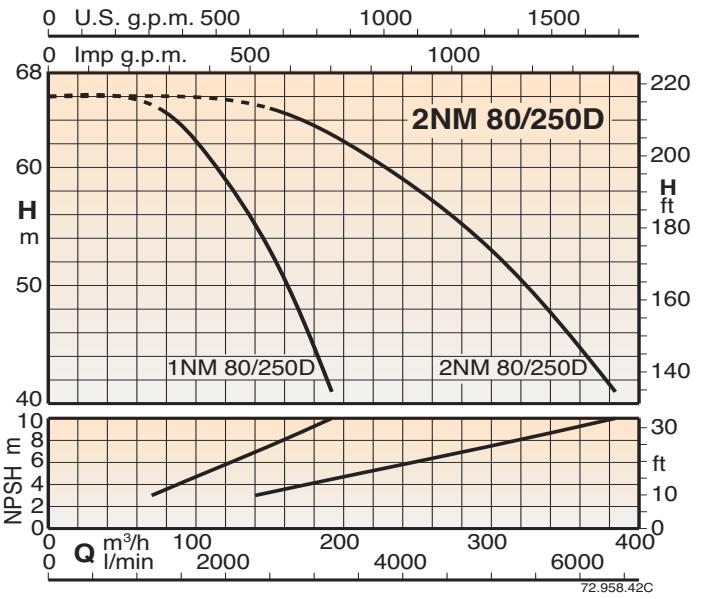
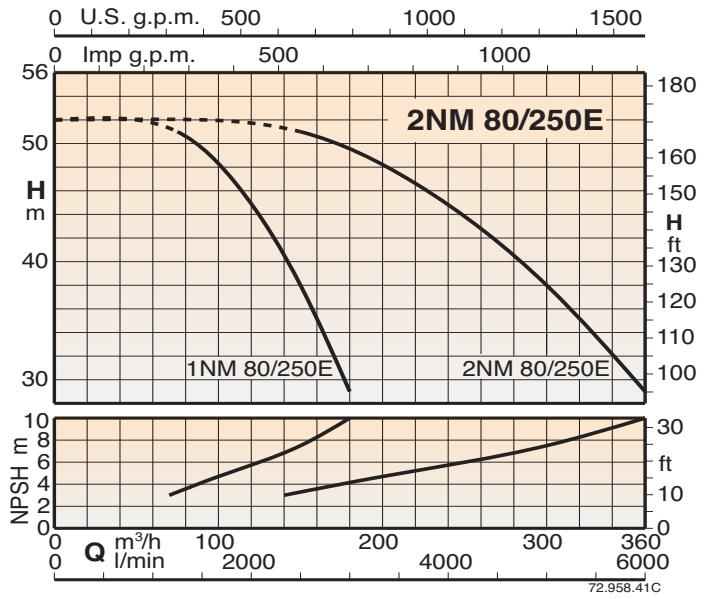
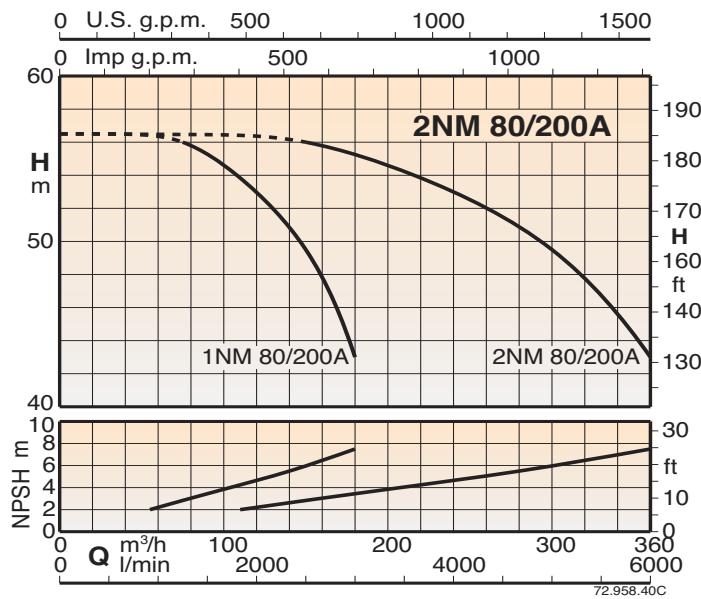
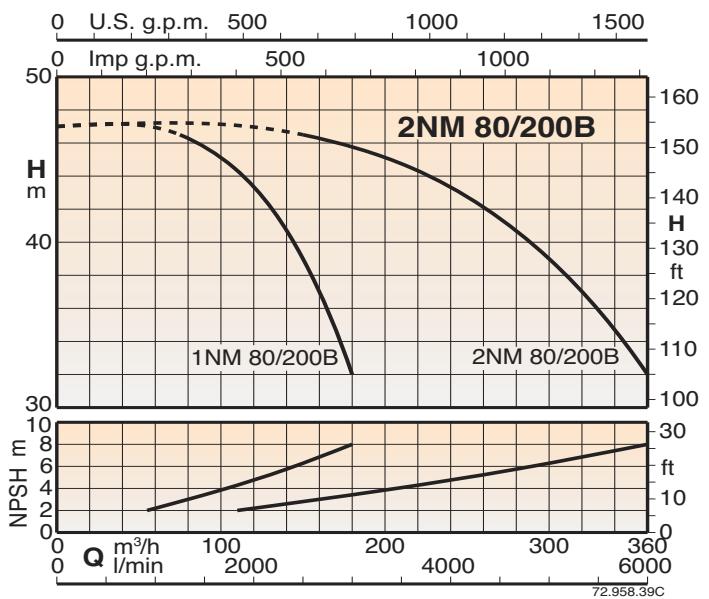
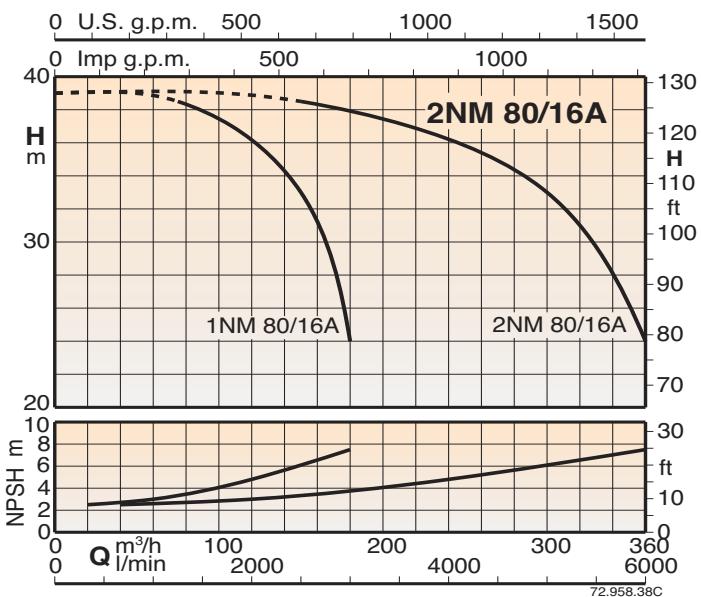
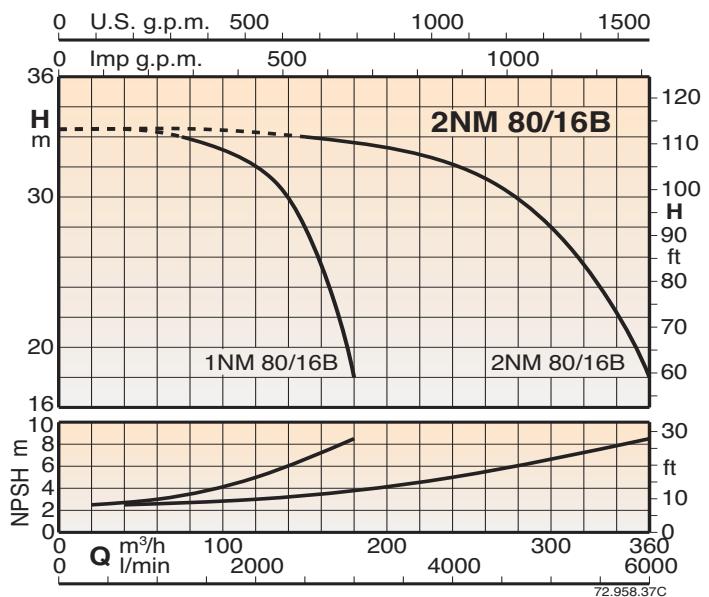
Coverage chart



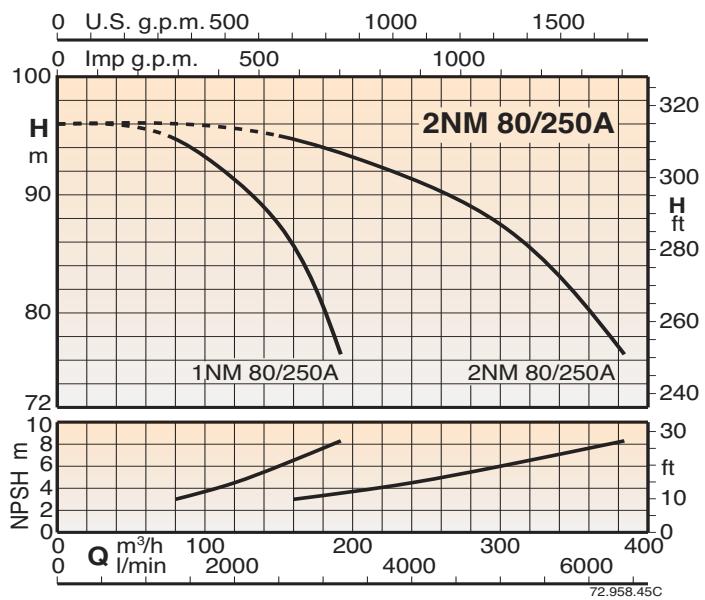
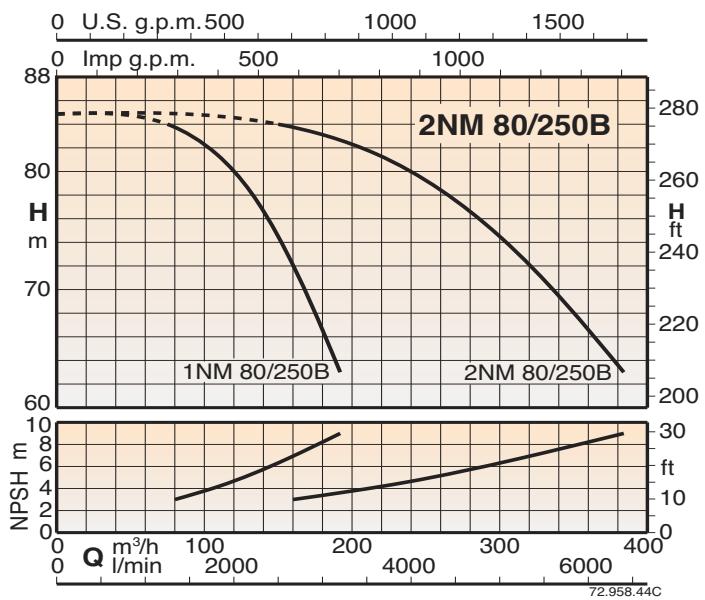
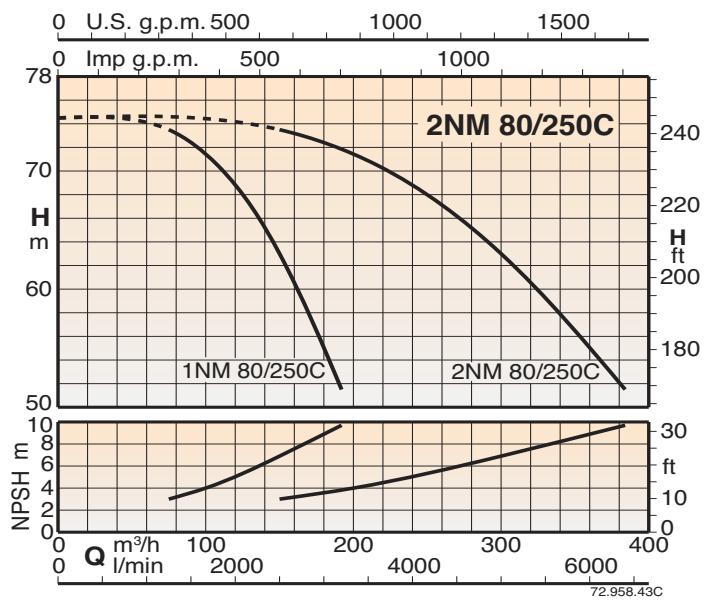
Coverage chart

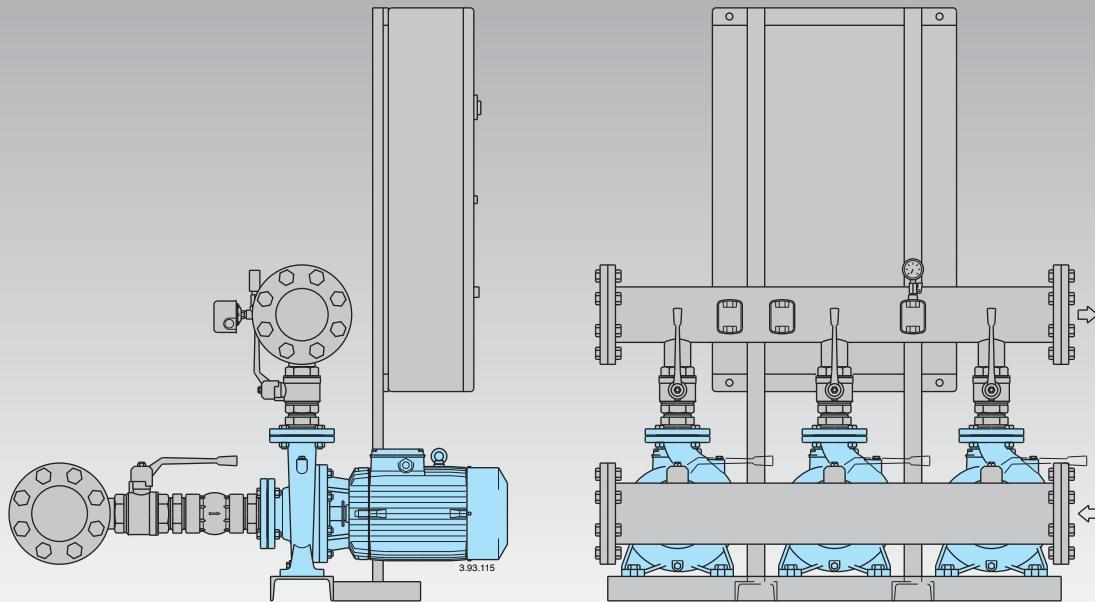


Coverage chart



Coverage chart





Construction

Automatic pressure boosting plant consisting of three centrifugal pumps complete with ball, non return valve on the suction side and ball valves on the discharge side.

Suction and delivery manifolds are in steel.

Electrical control boards:

- with microprocessor for fixed speed pump units (see page 386). Motor starting is D.O.L. up to 5,5 kW and Y/Δ for power rating 7,5 up to 55 kW.
- with frequency converter for variable speed pump units (see page 387).

The unit includes one pressure gauge and three adjustable differential pressure switches.

Operation

BS 3F Fixed speed pump

Depending on the reduction of the pressure in the system, the pressure switches determine the starting up of the pumps in sequence and the microprocessor alternates the starts.

BS1V2F Pumps at variable speed with one frequency converter

According to the water consumption, one or more pumps start, one at variable speed and the others at fixed speed, to grant the water quantity required at the set pressure.

BS3V Pumps at variable speed with three frequency converter

Depending on water consumption, one or more pumps are activated, all at variable speed, in order to guarantee the quantity of water required at the set pressure.

Applications

To supply water in civil and industrial buildings.

As pressure boosting pump to increase water pressure when needed (follow local rules).

Motors

2-pole induction motors, 50 Hz, $n = 2900$ rpm, suitable for operation with frequency converter.

- Three-phase 230/400V $\pm 10\%$ up to 3 kW;
- 400/690V $\pm 10\%$ from 4 to 55 kW.

Insulation class F.

Protection IP 54.

Constructed in accordance with: IEC 60034.

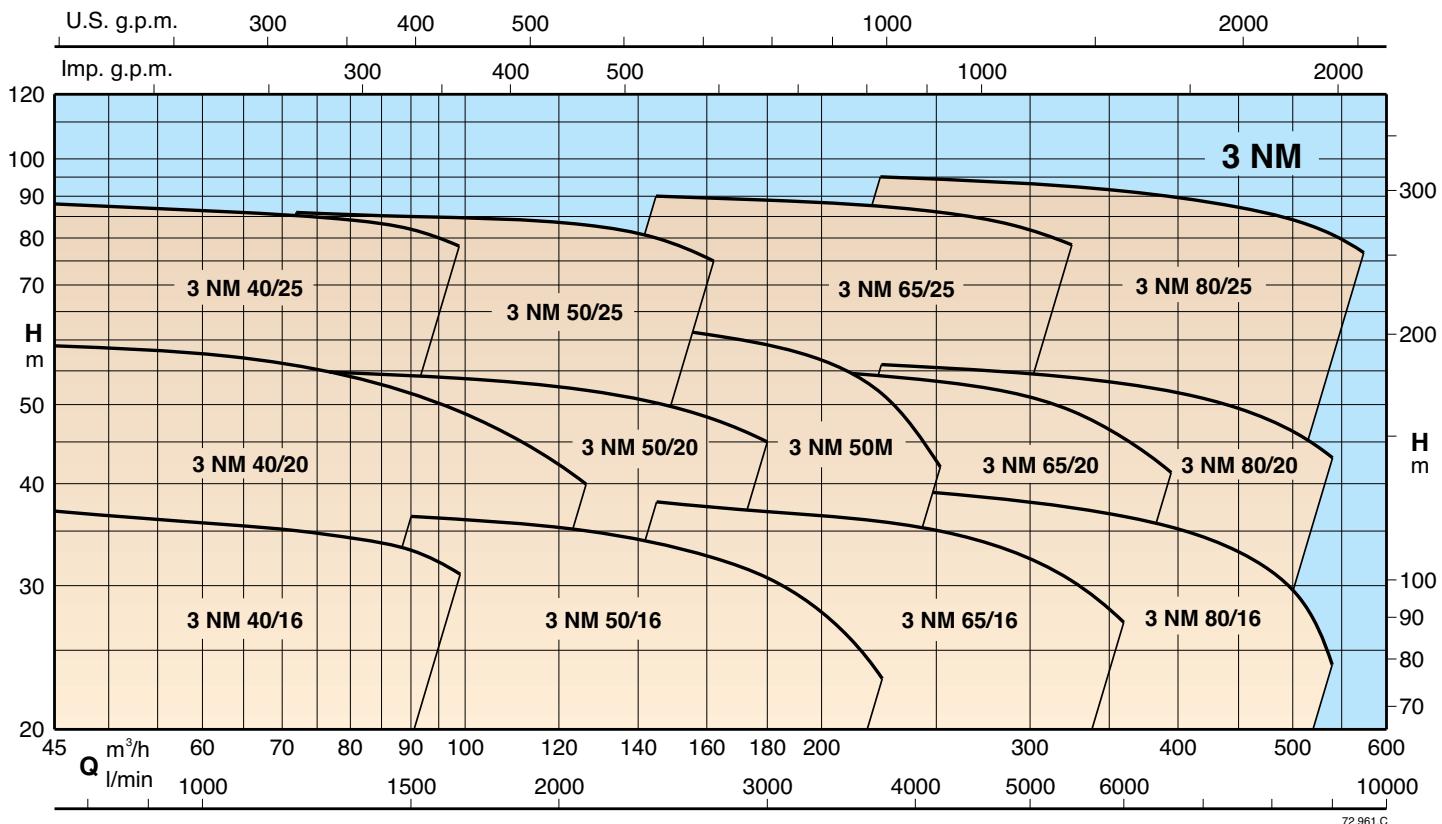
Other voltages and frequencies on request.

Vessels

When installing the unit, connect in the delivery section to an air cushion vessel.

The recommended sizes are shown in the following page.

Coverage chart



Performance
BS3F

Mains: 400V 3~ Motor: 400V 3~	Motor		Q max*	Total head	Pres. switch	Pres. switch	Pres. switch	Vessel
	kW	HP	l/min	m	bar	bar	bar	litre
BS3F 3NM 40/16B/A	3+3+3	4+4+4	1500	31,5	2,3÷3,0	2,0÷2,7	1,7÷2,4	2000
BS3F 3NM 40/16A/A	4+4+4	5,5+5,5+5,5	1650	37	2,8÷3,5	2,6÷3,3	2,4÷3,1	3000
BS3F 3NM 40/20BE	5,5+5,5+5,5	7,5+7,5+7,5	1650	51,5	3,8÷4,8	3,5÷4,5	3,2÷4,2	3000
BS3F 3NM 40/20AE	7,5+7,5+7,5	10+10+10	2100	59	4,5÷5,5	4,2÷5,2	3,9÷4,9	3000
BS3F 3NM 40/25B/A	11+11+11	15+15+15	1650	71,5	5,9÷6,9	5,7÷6,7	5,5÷6,5	5000
BS3F 3NM 40/25A/A	15+15+15	20+20+20	1650	88	7,5÷8,5	7,3÷8,3	7,1÷8,1	5000
BS3F 3NM 50/16B/A	5,5+5,5+5,5	7,5+7,5+7,5	3300	31	1,9÷2,9	1,7÷2,7	1,5÷2,5	3000
BS3F 3NM 50/16A/A	7,5+7,5+7,5	10+10+10	3750	36,5	2,4÷3,4	2,2÷3,2	2,0÷3,0	4000
BS3F 3NM 50/20B/A	9,2+9,2+9,2	12,5+12,5+12,5	3000	48	3,5÷4,5	3,3÷4,3	3,0÷4,0	5000
BS3F 3NM 50/20A/A	11+11+11	15+15+15	3000	55	4,2÷5,2	4,0÷5,0	3,8÷4,8	5000
BS3F 3NM 50/25C/A	11+11+11	15+15+15	2700	60,5	4,5÷5,5	4,0÷5,0	3,5÷4,5	5000
BS3F 3NM 50/25B/A	15+15+15	20+20+20	2700	71	5,8÷6,8	5,6÷6,6	5,4÷6,4	5000
BS3F 3NM 50/25A/A	18,5+18,5+18,5	25+25+25	2700	86	6,8÷7,8	6,6÷7,6	6,4÷7,4	5000
BS3F 3NM 50M/EE	11+11+11	15+15+15	3500	48	3,5÷4,5	3,3÷4,3	3,0÷4,0	5000
BS3F 3NM 50M/DE	15+15+15	20+20+20	3800	57	4,2÷5,2	3,9÷4,9	3,5÷4,5	5000
BS3F 3NM 50M/CE	18,5+18,5+18,5	25+25+25	4200	68	5,5÷6,5	4,0÷5,0	4,5÷5,5	5000
BS3F 3NM 65/16BE	11+11+11	15+15+15	6000	33,5	2,0÷3,0	1,8÷2,8	1,6÷2,6	5000
BS3F 3NM 65/16AE	15+15+15	20+20+20	6000	38	2,5÷3,5	2,3÷3,3	2,1÷3,1	5000
BS3F 3NM 65/20CE	15+15+15	20+20+20	6600	44	3,0÷4,0	2,7÷3,7	2,4÷3,4	5000
BS3F 3NM 65/20BE	18,5+18,5+18,5	25+25+25	6600	50	3,6÷4,6	3,3÷4,3	3,0÷4,0	5000
BS3F 3NM 65/200AE	22+22+22	30+30+30	6600	56,5	4,2÷5,2	3,9÷4,9	3,6÷4,6	5000
BS3F 3NM 65/250CE	22+22+22	30+30+30	5400	64	5,0÷6,0	4,7÷5,7	4,4÷5,4	5000
BS3F 3NM 65/250BE	30+30+30	40+40+40	5400	79,5	6,6÷7,6	6,3÷7,3	6,0÷7,0	5000
BS3F 3NM 65/250AE	37+37+37	50+50+50	5400	90	7,7÷8,7	7,4÷8,4	7,1÷8,1	5000
BS3F 3NM 80/16BE	15+15+15	20+20+20	9000	34	2,5÷3,5	2,2÷3,2	1,9÷2,9	5000
BS3F 3NM 80/16AE	18,5+18,5+18,5	25+25+25	9000	38,5	2,0÷3,0	1,8÷2,8	1,6÷2,6	5000
BS3F 3NM 80/200BE	22+22+22	30+30+30	9000	46,5	3,3÷4,3	3,1÷4,1	2,9÷3,9	5000
BS3F 3NM 80/200AE	30+30+30	40+40+40	9000	56	4,3÷5,3	4,1÷5,1	3,9÷4,9	5000
BS3F 3NM 80/250EE	22+22+22	30+30+30	9000	51	3,8÷4,8	3,4÷4,4	3,0÷4,0	5000
BS3F 3NM 80/250DE	30+30+30	40+40+40	9600	65	5,0÷6,0	4,5÷5,5	4,0÷5,0	5000
BS3F 3NM 80/250CE	37+37+37	50+50+50	9600	73,5	6,0÷7,0	5,5÷6,5	5,0÷6,0	5000
BS3F 3NM 80/250BE	45+45+45	60+60+60	9600	84	7,0÷8,0	6,5÷7,5	6,0÷7,0	5000
BS3F 3NM 80/250AE	55+55+55	75+75+75	9600	95	8,0÷9,0	7,6÷8,6	7,2÷8,2	5000

 Maximum pumps flow at minimum set pressure of 3rd pressure switch.

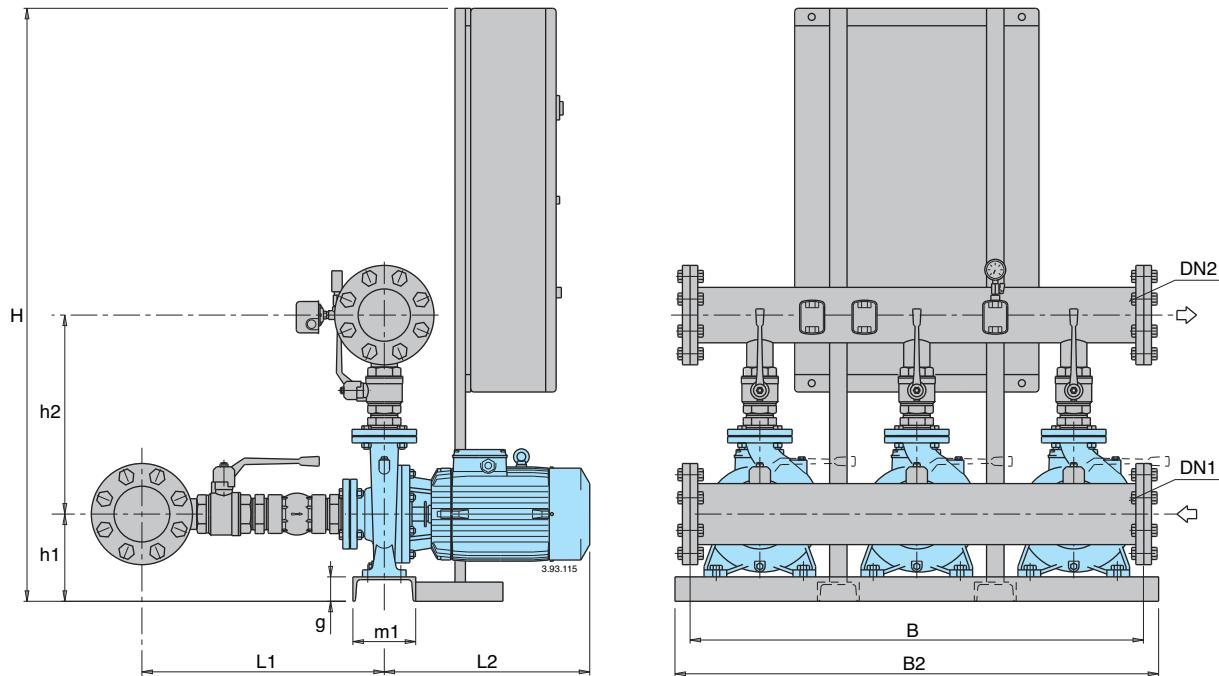
BS1V2F

Mains: 400V 3~ Motor: 400V 3~	Motor		Vessel
	kW	HP	Membrane litre
BS1V2F 3NM 40/16B/A	3 x3	4 x3	24
BS1V2F 3NM 40/16A/A	4 x3	5,5 x3	24
BS1V2F 3NM 40/20BE	5,5 x3	7,5 x3	24
BS1V2F 3NM 40/20AE	7,5 x3	10 x3	24
BS1V2F 3NM 40/25B/A	11 x3	15 x3	24
BS1V2F 3NM 40/25A/A	15 x3	20 x3	24
BS1V2F 3NM 50/16B/A	5,5 x3	7,5 x3	24
BS1V2F 3NM 50/16A/A	7,5 x3	10 x3	24
BS1V2F 3NM 50/20B/A	9,2 x3	12,5 x3	24
BS1V2F 3NM 50/20A/A	11 x3	15 x3	24
BS1V2F 3NM 50/25C/A	11 x3	15 x3	24
BS1V2F 3NM 50/25B/A	15 x3	20 x3	24
BS1V2F 3NM 50/25A/A	18,5 x3	25 x3	24
BS1V2F 3NM 50M/EE	11 x3	15 x3	24
BS1V2F 3NM 50M/DE	15 x3	20 x3	24
BS1V2F 3NM 50M/CE	18,5 x3	25 x3	24
BS1V2F 3NM 65/16BE	11 x3	15 x3	24
BS1V2F 3NM 65/16AE	15 x3	20 x3	24
BS1V2F 3NM 65/20CE	15 x3	20 x3	24
BS1V2F 3NM 65/20BE	18,5 x3	25 x3	24
BS1V2F 3NM 65/200AE	22 x3	30 x3	24
BS1V2F 3NM 65/250CE	22 x3	30 x3	24
BS1V2F 3NM 65/250BE	30 x3	40 x3	24
BS1V2F 3NM 65/250AE	37 x3	50 x3	24
BS1V2F 3NM 80/16BE	15 x3	20 x3	24
BS1V2F 3NM 80/16AE	18,5 x3	25 x3	24
BS1V2F 3NM 80/200BE	22 x3	30 x3	24
BS1V2F 3NM 80/200AE	30 x3	40 x3	24
BS1V2F 3NM 80/250EE	22 x3	30 x3	24
BS1V2F 3NM 80/250DE	30 x3	40 x3	24
BS1V2F 3NM 80/250CE	37 x3	50 x3	24
BS1V2F 3NM 80/250BE	45 x3	60 x3	24
BS1V2F 3NM 80/250AE	55 x3	75 x3	24

BS3V

Mains: 400V 3~ Motor: 400V 3~	Motor		Vessel
	kW	HP	Membrane litre
BS3V 3NM 40/16B/A	3 x3	4 x3	24
BS3V 3NM 40/16A/A	4 x3	5,5 x3	24
BS3V 3NM 40/20BE	5,5 x3	7,5 x3	24
BS3V 3NM 40/20AE	7,5 x3	10 x3	24
BS3V 3NM 40/25B/A	11 x3	15 x3	24
BS3V 3NM 40/25A/A	15 x3	20 x3	24
BS3V 3NM 50/16B/A	5,5 x3	7,5 x3	24
BS3V 3NM 50/16A/A	7,5 x3	10 x3	24
BS3V 3NM 50/20B/A	9,2 x3	12,5 x3	24
BS3V 3NM 50/20A/A	11 x3	15 x3	24
BS3V 3NM 50/25C/A	11 x3	15 x3	24
BS3V 3NM 50/25B/A	15 x3	20 x3	24
BS3V 3NM 50/25A/A	18,5 x3	25 x3	24
BS3V 3NM 50M/EE	11 x3	15 x3	24
BS3V 3NM 50M/DE	15 x3	20 x3	24
BS3V 3NM 50M/CE	18,5 x3	25 x3	24
BS3V 3NM 65/16BE	11 x3	15 x3	24
BS3V 3NM 65/16AE	15 x3	20 x3	24
BS3V 3NM 65/20CE	15 x3	20 x3	24
BS3V 3NM 65/20BE	18,5 x3	25 x3	24
BS3V 3NM 65/200AE	22 x3	30 x3	24
BS3V 3NM 65/250CE	22 x3	30 x3	24
BS3V 3NM 65/250BE	30 x3	40 x3	24
BS3V 3NM 65/250AE	37 x3	50 x3	24
BS3V 3NM 80/16BE	15 x3	20 x3	24
BS3V 3NM 80/16AE	18,5 x3	25 x3	24
BS3V 3NM 80/200BE	22 x3	30 x3	24
BS3V 3NM 80/200AE	30 x3	40 x3	24
BS3V 3NM 80/250EE	22 x3	30 x3	24
BS3V 3NM 80/250DE	30 x3	40 x3	24
BS3V 3NM 80/250CE	37 x3	50 x3	24
BS3V 3NM 80/250BE	45 x3	60 x3	24
BS3V 3NM 80/250AE	55 x3	75 x3	24

Dimensions

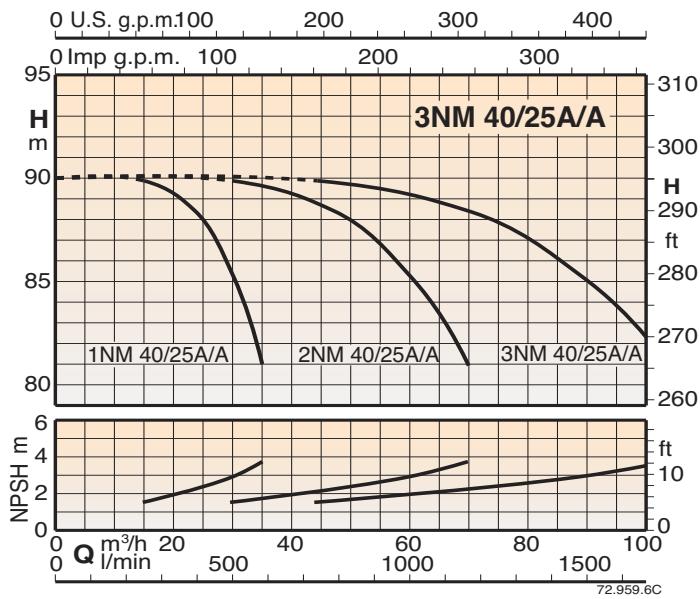
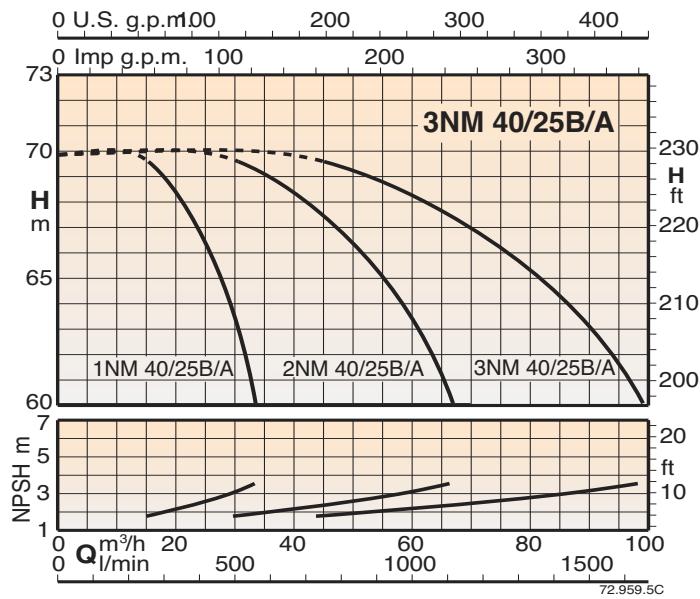
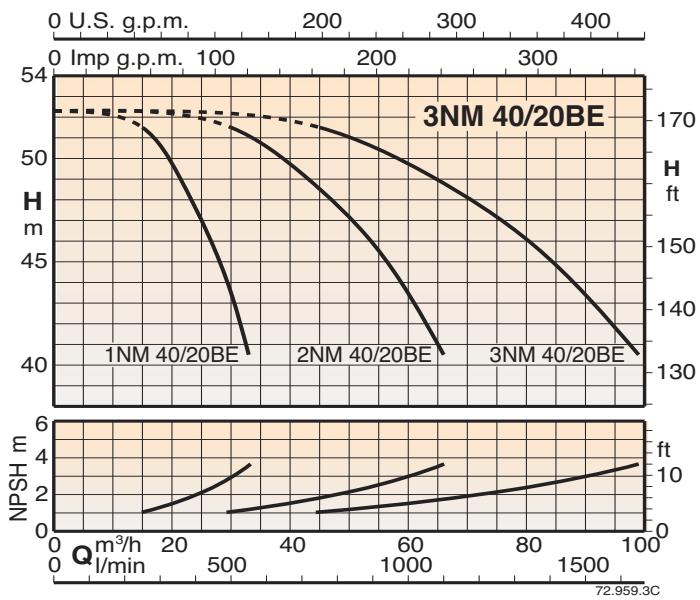
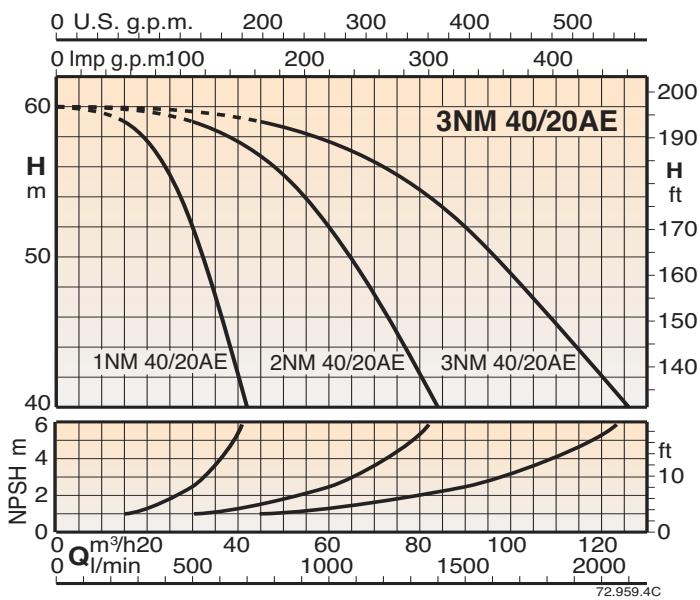
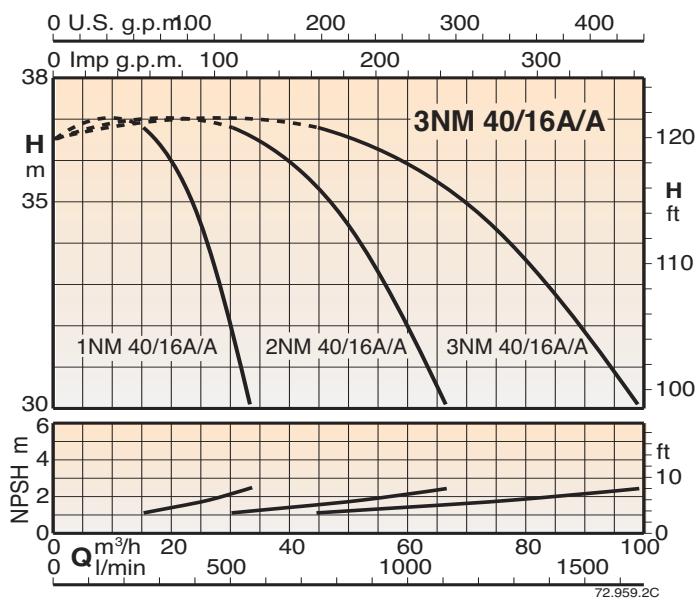
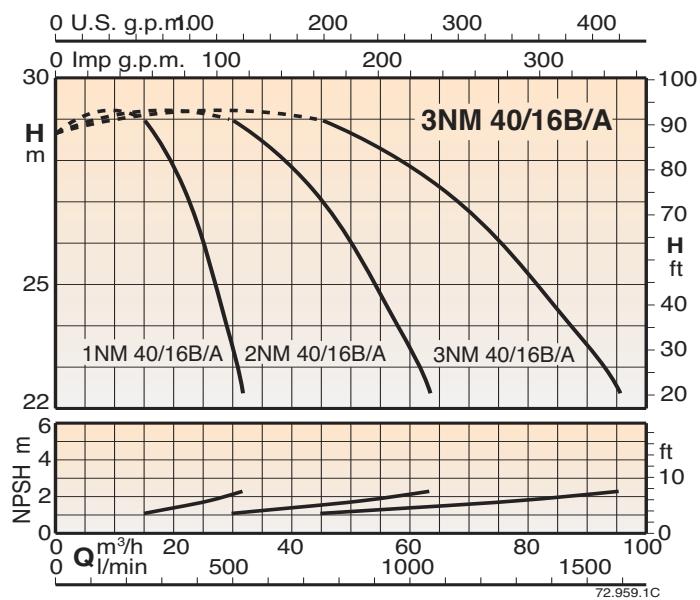


TYPE	DN1	DN2	mm								
			H	h1	h2	L2	L1	B	B2	m1	g
BS.. 3NM 40/16B/A	125	100	1055	187	390	390	583	1200	1350	120	55
BS.. 3NM 40/16A/A											
BS.. 3NM 40/20BE	125	100	1355	215	410	425	603	1200	1350	120	55
BS.. 3NM 40/20AE											
BS.. 3NM 40/25B/A	125	100	1560	240	450	540 590	603	1400	1550	140	60
BS.. 3NM 40/25A/A											
BS.. 3NM 50/16B/A	150	125	1355	215	448	425	613	1200	1350	120	55
BS.. 3NM 50/16A/A											
BS.. 3NM 50/20B/A	150	125	1555	215	468	540	613	1200	1350	120	55
BS.. 3NM 50/20A/A											
BS.. 3NM 50/25C/A	150	125	1560	240	493	545 595 620	613	1400	1550	140	60
BS.. 3NM 50/25B/A											
BS.. 3NM 50/25A/A											
BS.. 3NM 50M/EE	200	150	1585	217	508	600	855	1400	1450	240	85
BS.. 3NM 50M/DE											
BS.. 3NM 50M/CE											
BS.. 3NM 65/16BE	250	200	1560	220	555	540 590	750	1500	1550	140	60
BS.. 3NM 65/16AE											
BS.. 3NM 65/20CE	250	200	1560	240	580	590	750	1500	1550	140	60
BS.. 3NM 65/20BE											
BS.. 3NM 65/200AE											
BS.. 3NM 65/250CE	250	200	1800	260	605	720	750	1800	1900	300	100
BS.. 3NM 65/250BE											
BS.. 3NM 65/250AE											
BS.. 3NM 80/16BE	300 ⁽¹⁾	250	1560	240	645	595 620	725	1500	1550	140	60
BS.. 3NM 80/16AE											
BS.. 3NM 80/200BE	300 ⁽¹⁾	250	1800	260	670	720	725	1500	1550	300	100
BS.. 3NM 80/200AE											
BS.. 3NM 80/250EE			1800	260		720				300	100
BS.. 3NM 80/250DE			1800	260		720				300	100
BS.. 3NM 80/250CE	300 ⁽¹⁾	250	1810	310	700	845	725	1800	1900	400	110
BS.. 3NM 80/250BE			1800*	310		845				400	110
BS.. 3NM 80/250AE			1800*	310		845				400	110

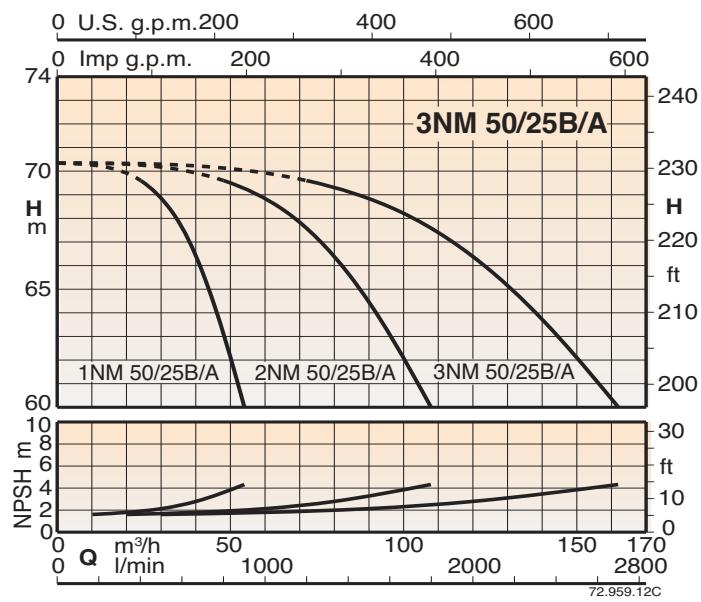
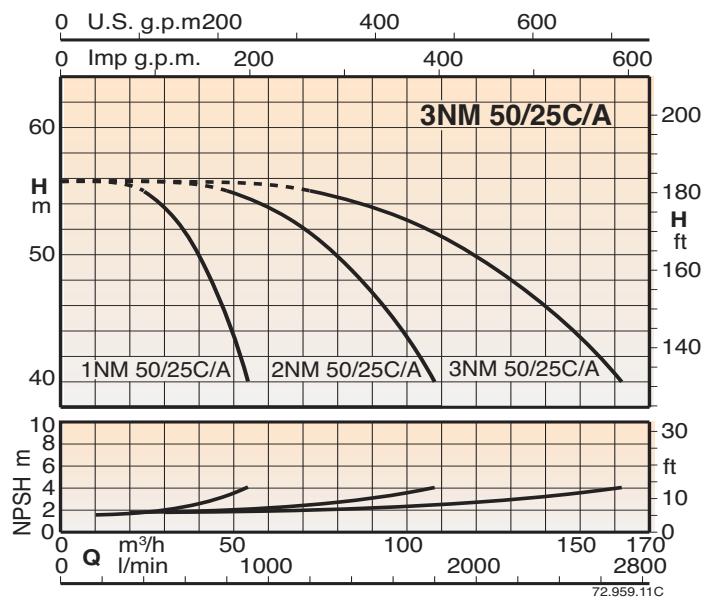
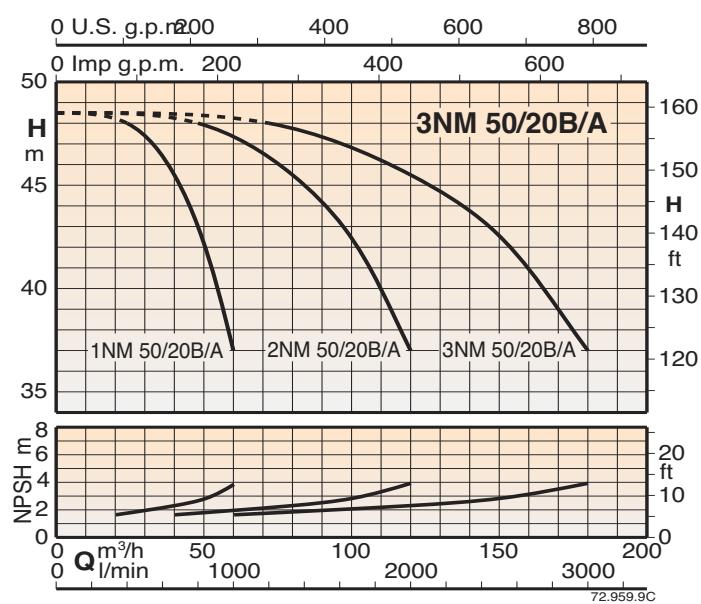
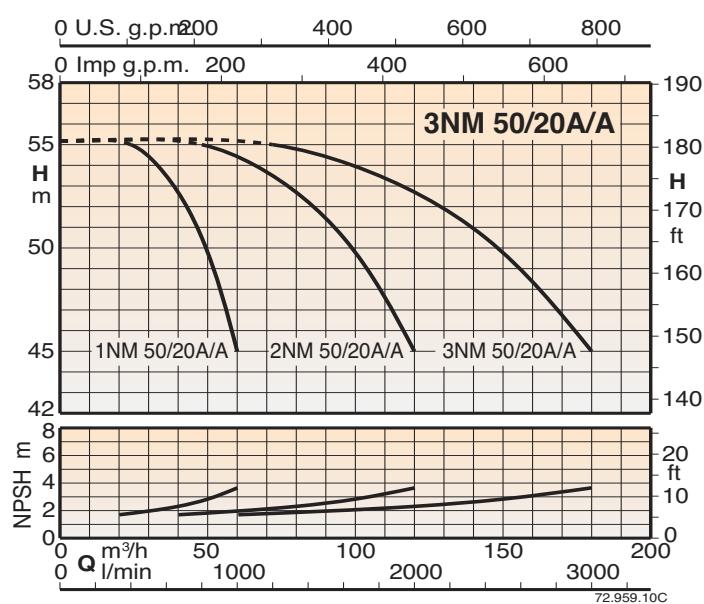
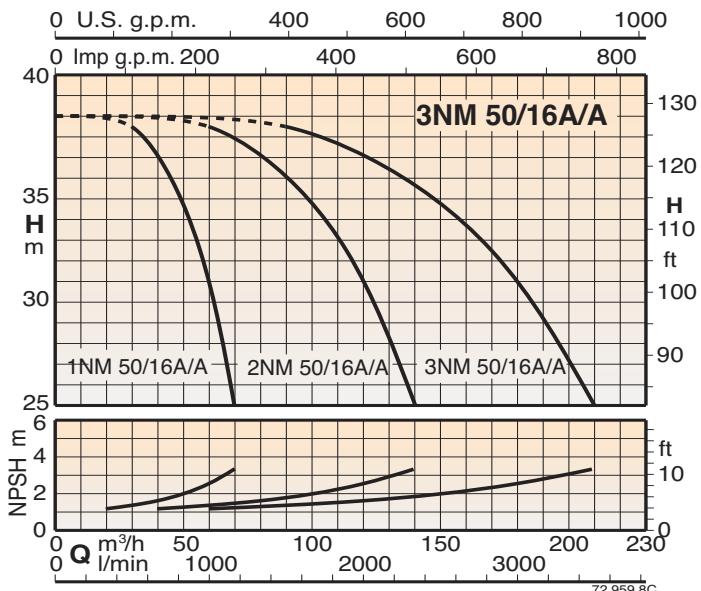
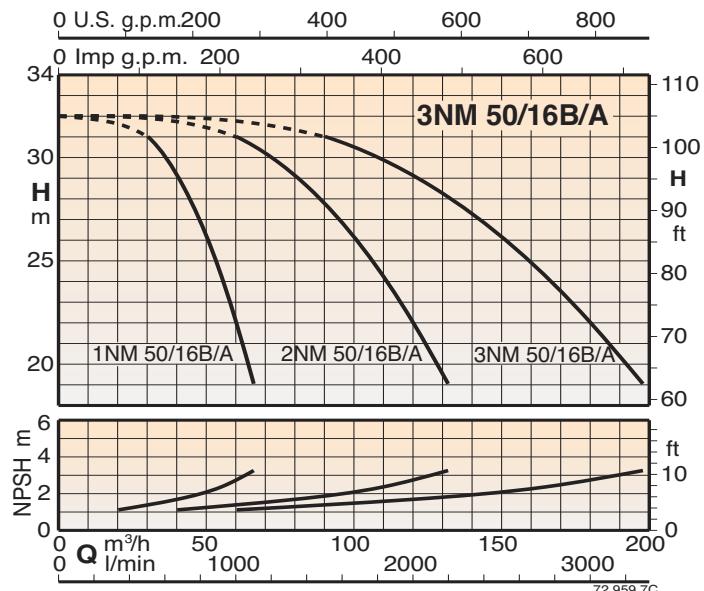
⁽¹⁾ Only on request

* Cabinet version

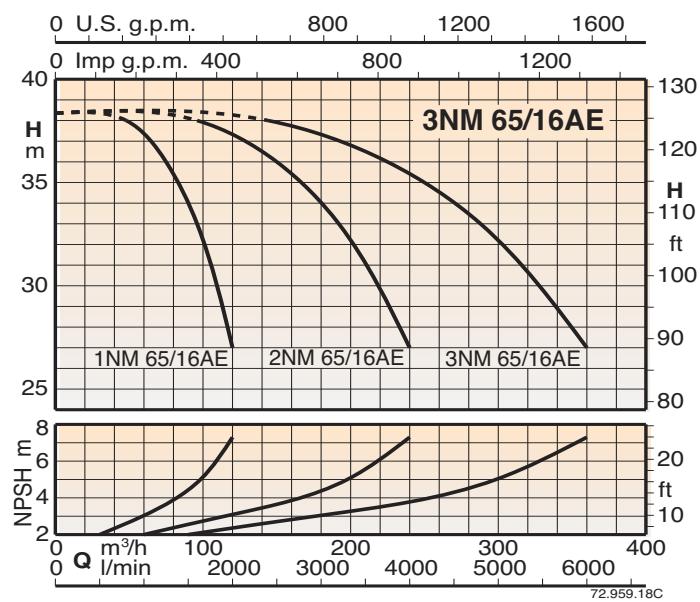
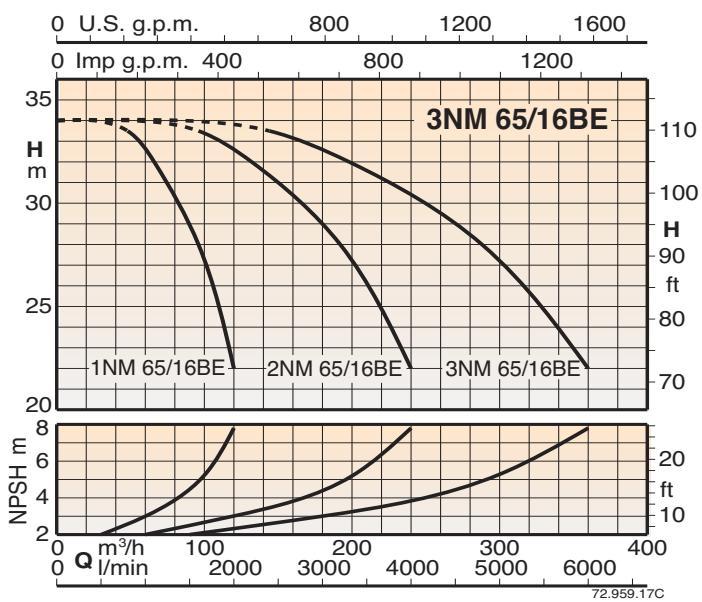
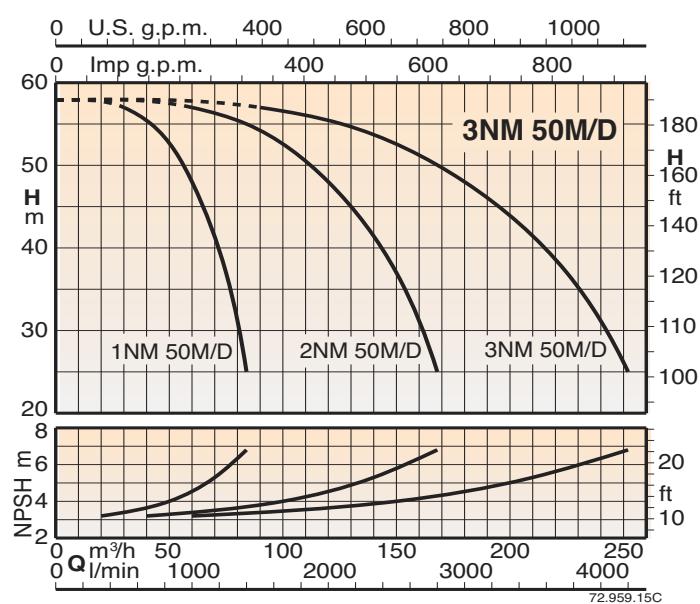
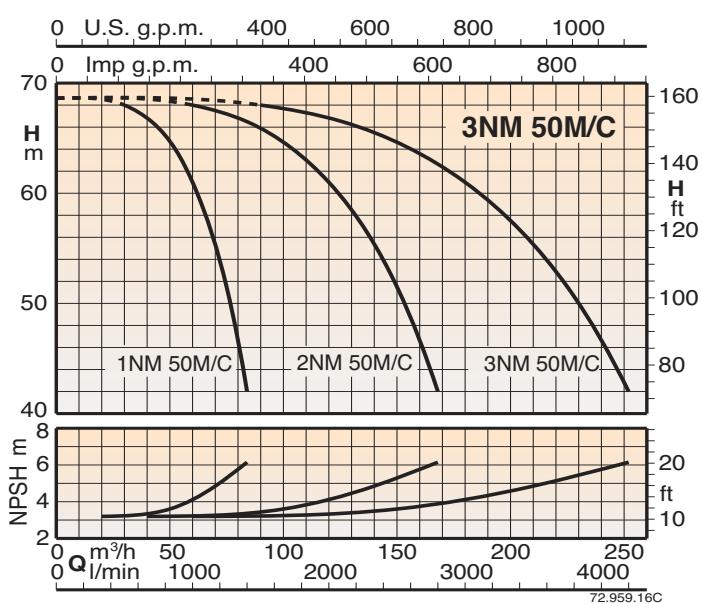
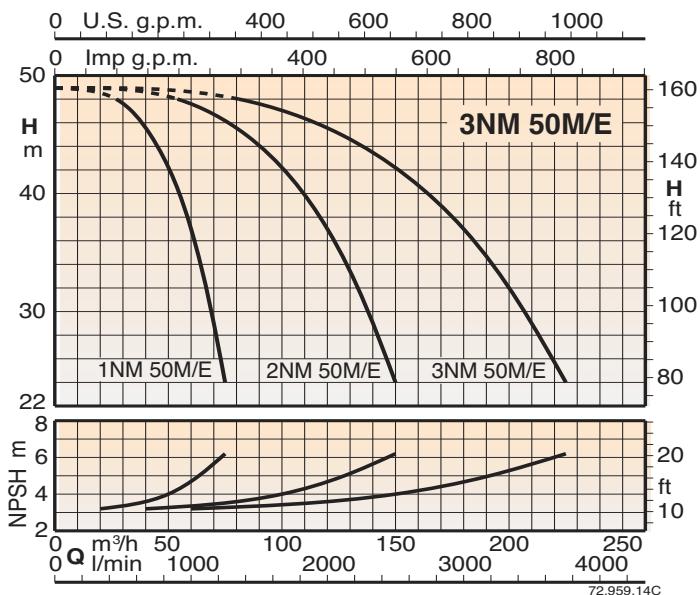
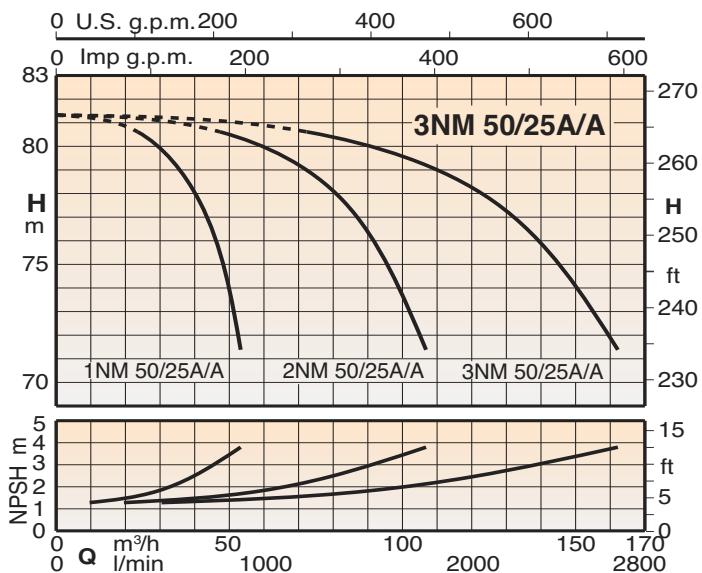
Coverage chart



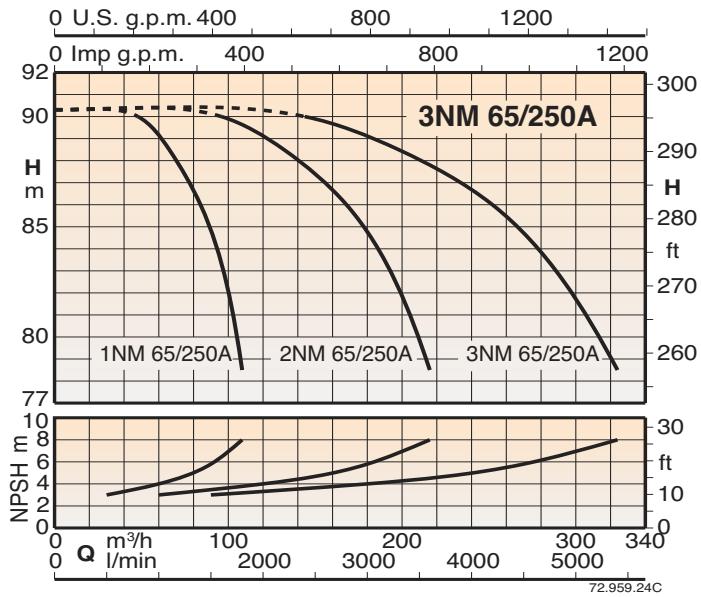
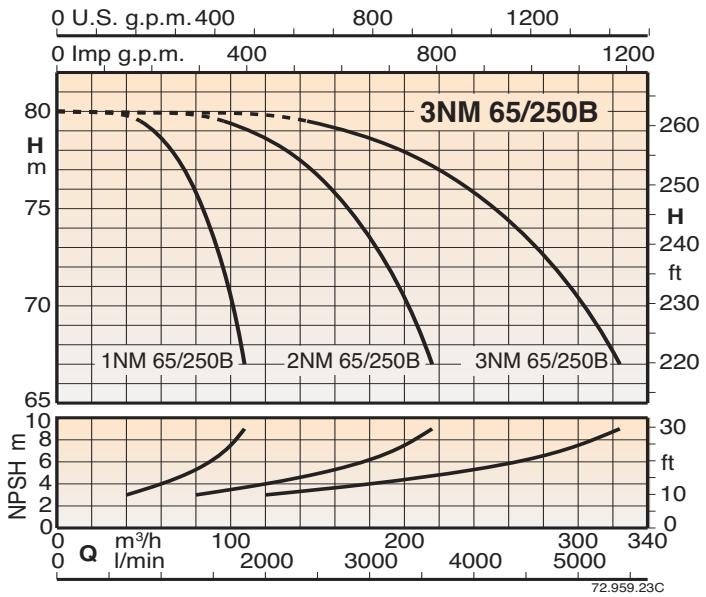
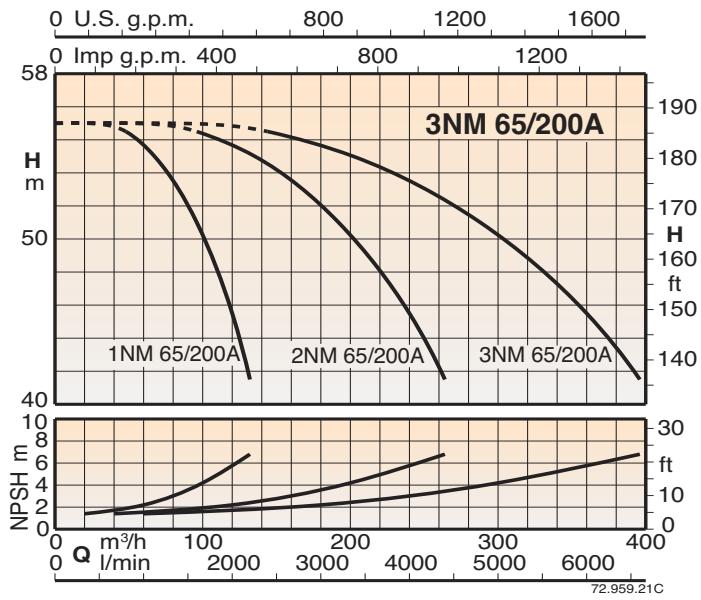
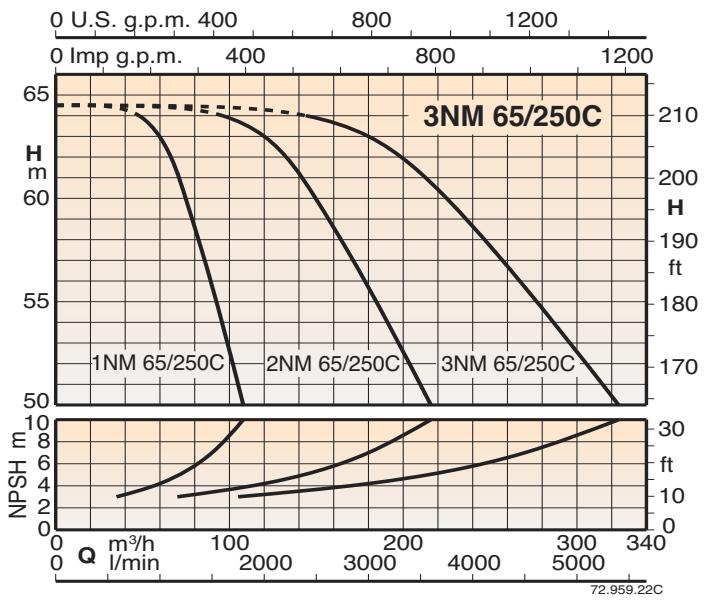
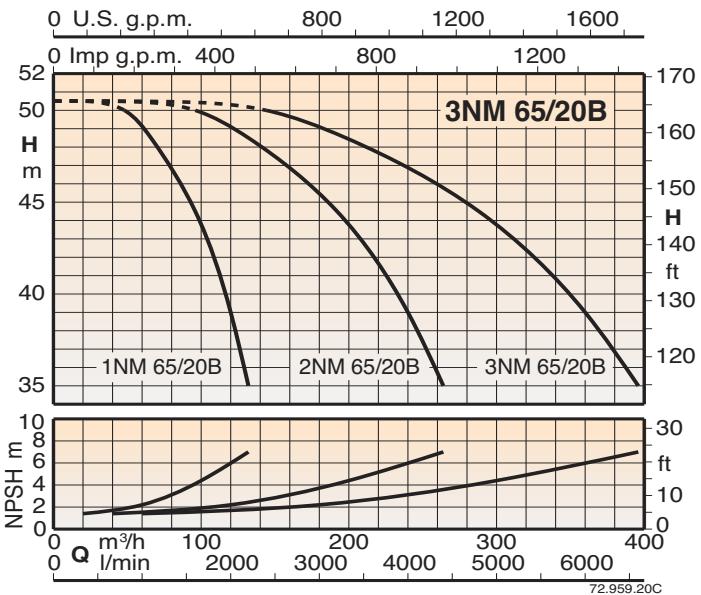
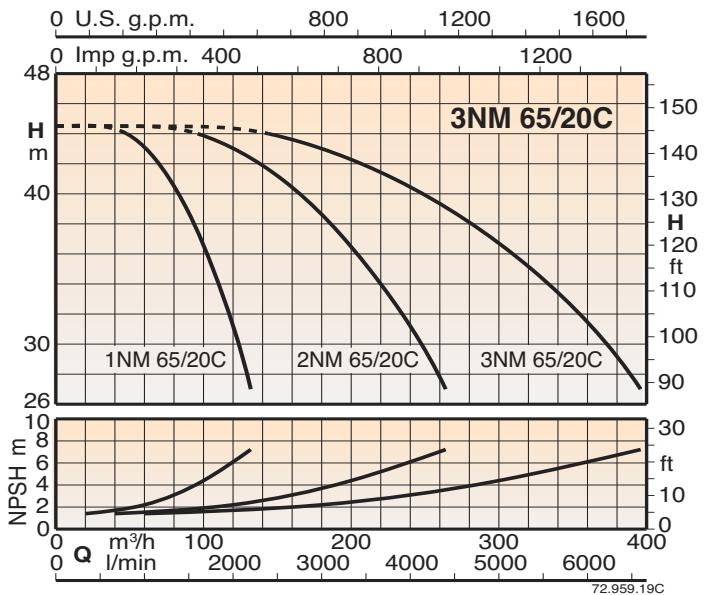
Coverage chart



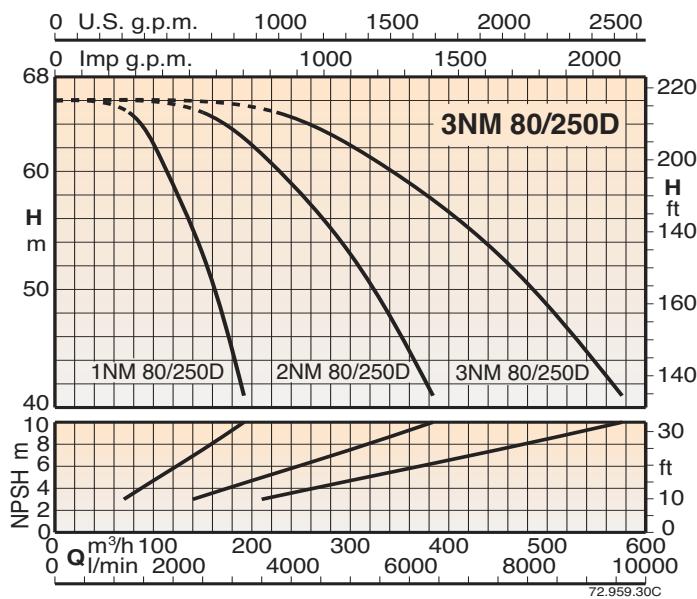
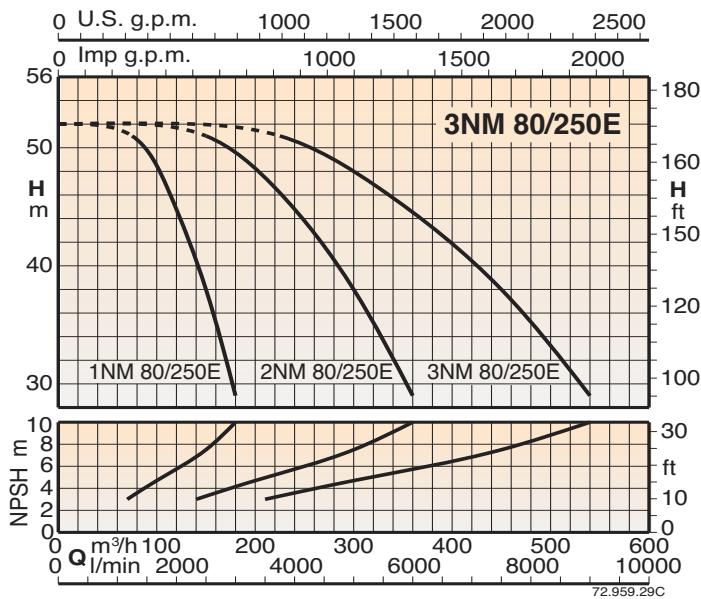
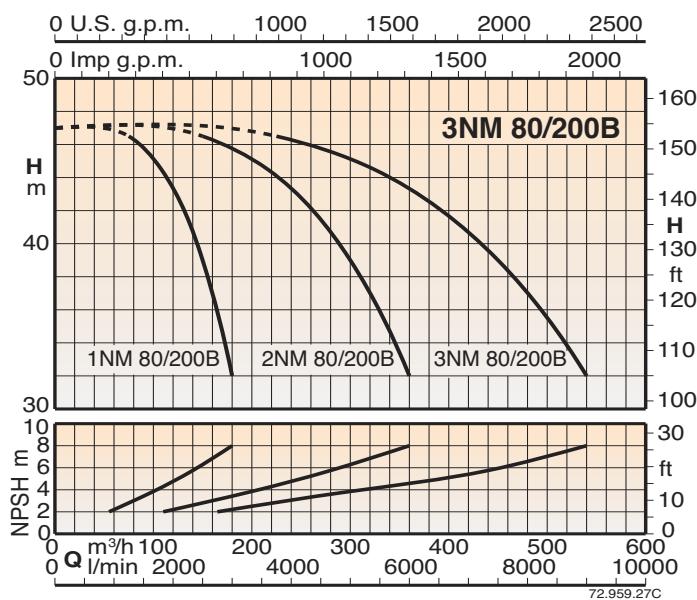
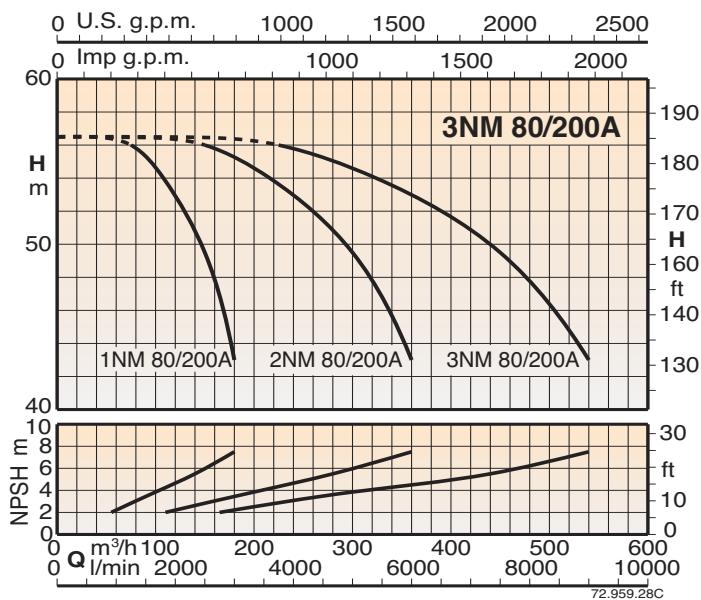
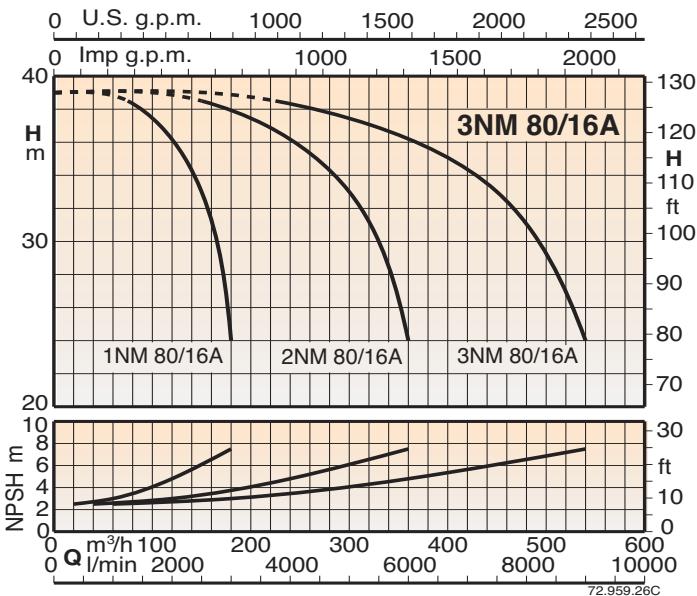
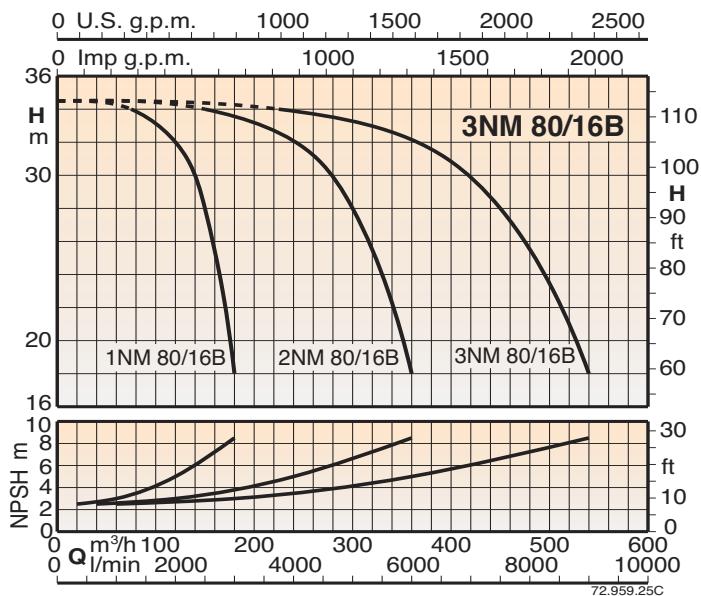
Coverage chart



Coverage chart



Coverage chart



Coverage chart

