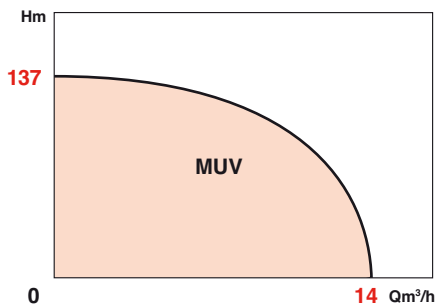


## OPERATING RANGES

Flow rates of up to:	14 m <sup>3</sup> /h
Manometric heads of up to:	137 m CE
Max. operating pressure:	10 bar
Max. intake pressure:	6 bar
Temperature range:	- 15° to + 90°C
Max. ambient temperature:	+ 40°C
DN (nominal diameter) of ports:	G1" to G1 1/2"
Reference MEI*:	≥ 0,10

\*Minimum Efficiency Index



## ADVANTAGES

- Extended shaft design allows for optimised alignment
- Stainless steel impellers and stages, cast iron pump housing
- Impeller rings and seals between very thick cells: impervious to thermal expansion and eliminates the risk of seizing;
- Standardised mechanical seal +90°C

# MUV

## VERTICAL MULTI-STAGE PUMPS

### 2 pole - 50 Hz

## APPLICATIONS

Pumping of clean, non-muddy liquids in the housing, agricultural and industrial sectors:

- Supply - Boosting
- Watering - Irrigation
- Washing stations
- Heating - Air conditioning

And for incorporation into all modular systems.  
Abstraction from wells, springs, rivers, ponds...



Certified  
**ACS**

• MUV

# MUV

## DESIGN

### • Hydraulic part

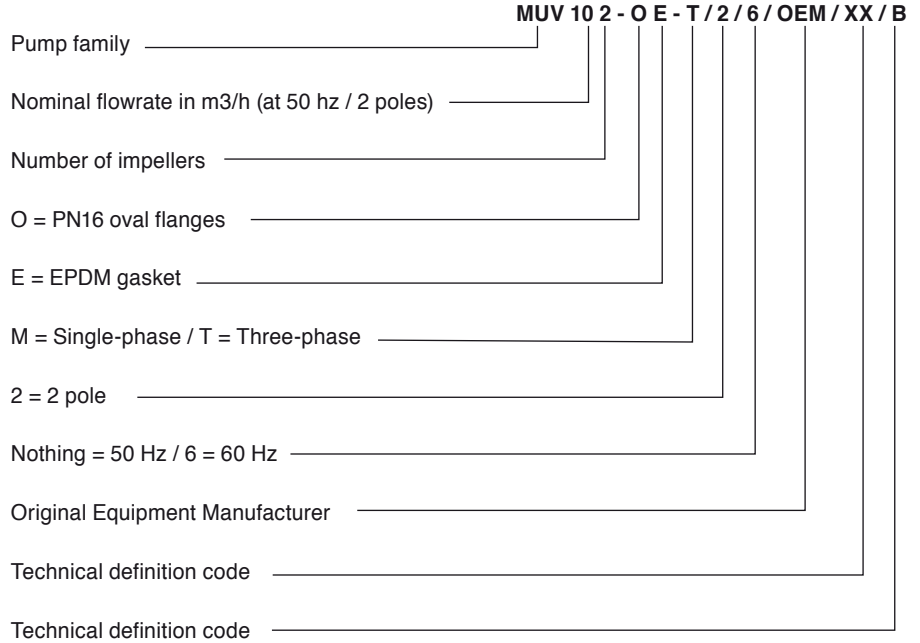
- Vertical, multi-stage, centrifugal, with 2 to 12 stages.
- Vertical axis, in-line suction/delivery orifices in the lower part
- Impellers fitted directly onto the extended motor shaft.
- Standardised mechanical seal ensures leak-tightness of shaft passage.

### • Motor

- Standard ventilated
- With extended shaft end
- Rotor-shaft guide bearings lubricated for life.

Rotation speed: 2900 rpm  
 Three-phase winding: 230-400 V  
 Single-phase: 230 V  
 Frequency: 50 Hz (optional 60 Hz)  
 Insulation class: 155 (F)  
 Protection class: IP 54

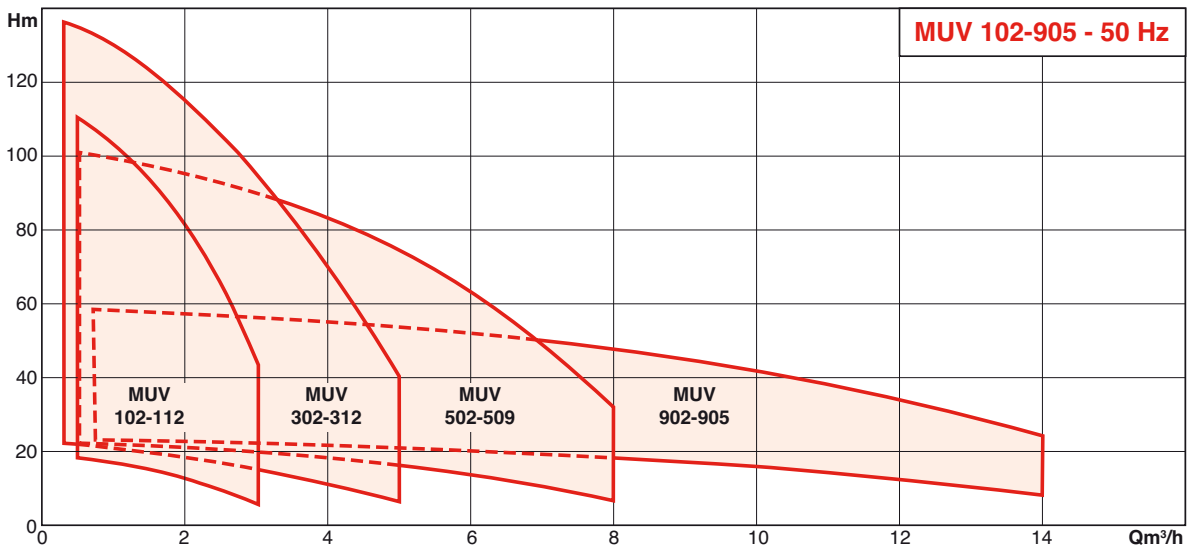
## IDENTIFICATION



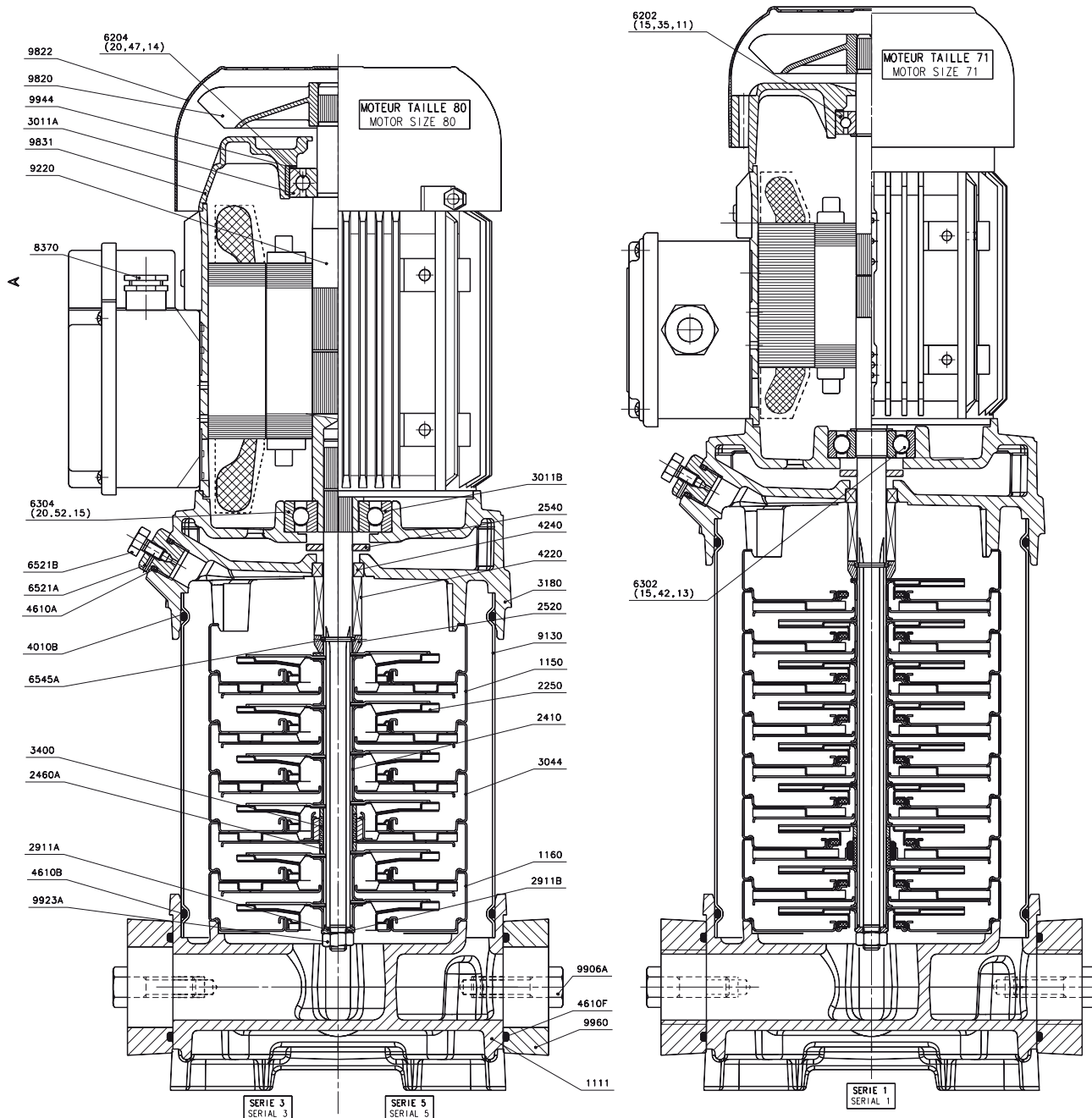
## BASIC CONSTRUCTION

Main parts	Material
Pump casing	EN GJL250
Impellers	304 stainless steel
Cells (stage housing)	304 stainless steel
Pump shaft	Stainless steel
Cell centring device	304 stainless steel
Mechanical seal	Carbon/Silicon carbide
O-rings	EPDM ethylene propylene
Fixing-support bearing	EN GJL250

## HYDRAULIC PRESELECTION RANGE



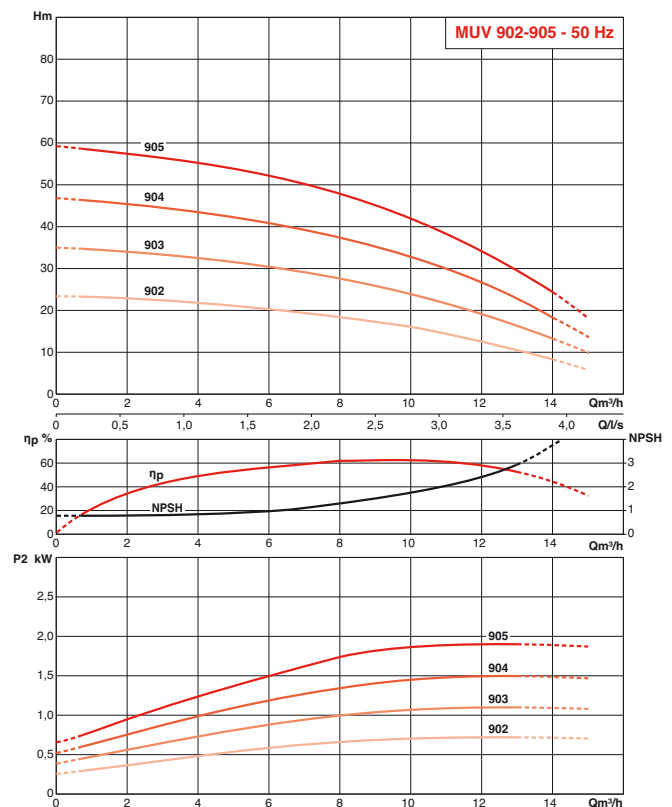
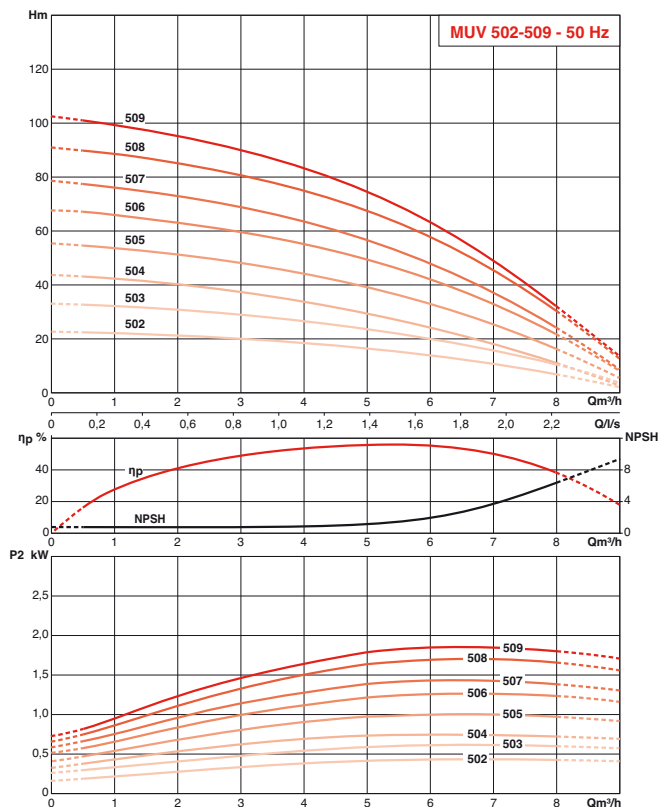
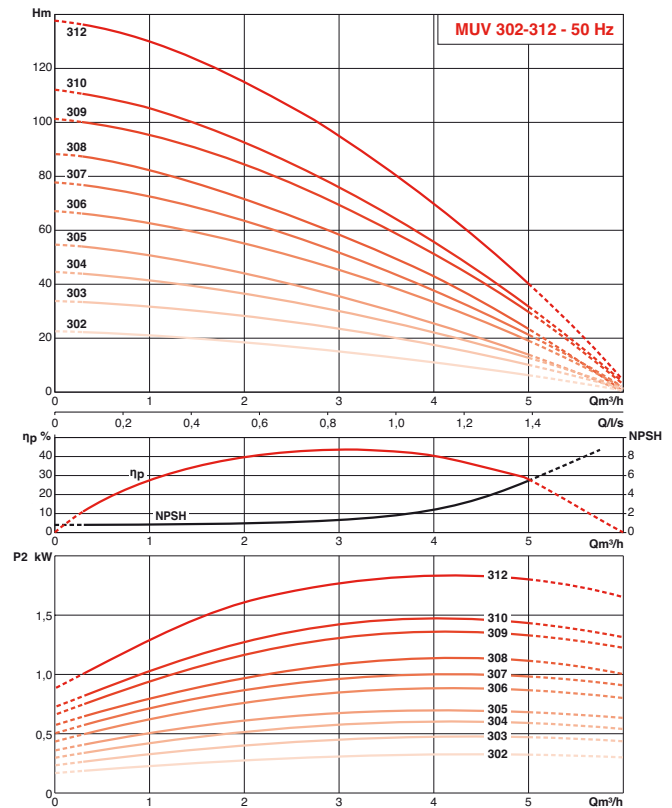
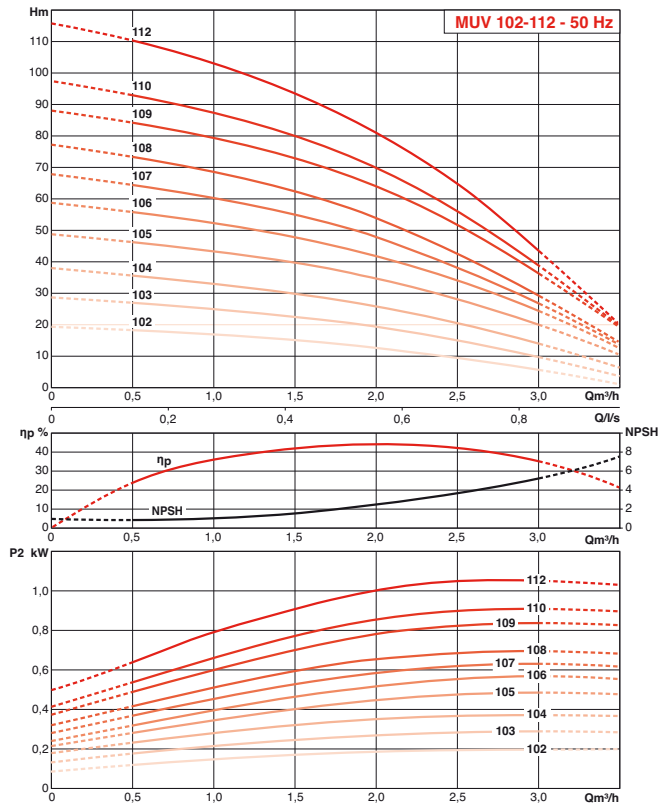
## SECTIONAL DIAGRAM



<b>Designation</b>	<b>reference no</b>	<b>Designation</b>	<b>reference no</b>
Suction housing	1130	Lantern ring mount	3180
Stage housing with interstage crossover	1150	Shaft sleeve for bearing	3400
Stage housing without interstage crossover	1160	Mechanical seal	4220/4240
Impeller	2250	•friction faces	
Impeller spacer	2410	•membrane	
Shaft sleeve spacer	2460a	•spring	
Mechanical seal support ring	2460b	O-rings	
Impeller thickness washer	2460d	Plugs	
Impeller/snap ring support rin	2520	1/2 snap ring	
Thrower	2540	M8 screws (motor stud bolts)	
Shaft end washer	2911a/b	Equipped motor casing	
Stage housing with bearing	3044	Rotor shaft	

<b>reference no</b>	<b>Designation</b>	<b>reference no</b>
6202 (15,35,11)	Terminal cover gasket	9460
6204 (20,47,14)	Fan	9820
6302 (15,42,13)	Fan cover	9822
6304 (20,52,15)	Terminal cover	9825
6521B	Rear bearing shroud	9831
6521A	Capacitor	9860
4610A	Shaft end nut	9923a
4010B	Spring washer	9944
6545A	Spring pin	9966
3400		
2460A		
2911A		
4610B		
9923A		
9906A		
4610F		
9960		
1111		

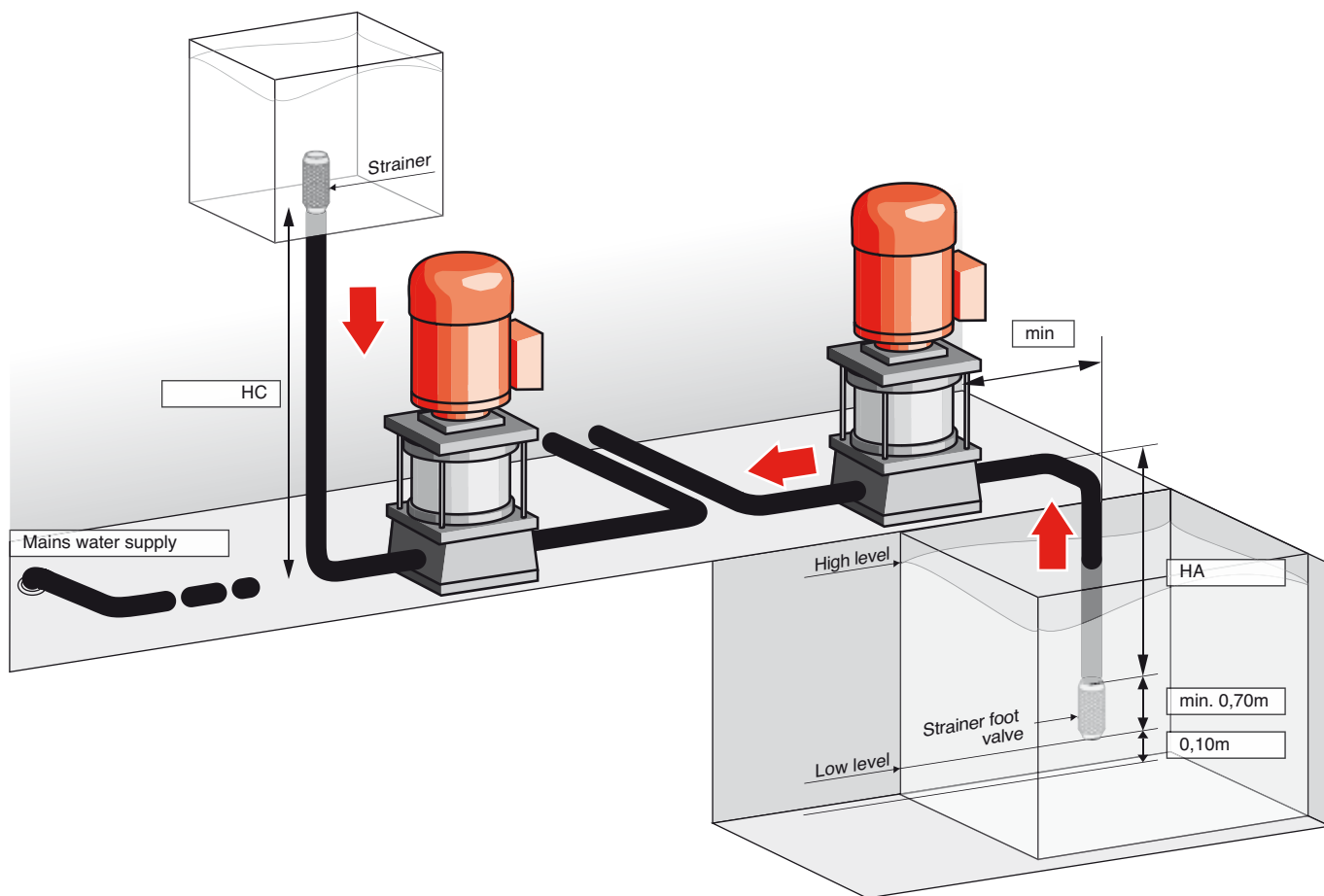
## HYDRAULIC PERFORMANCE



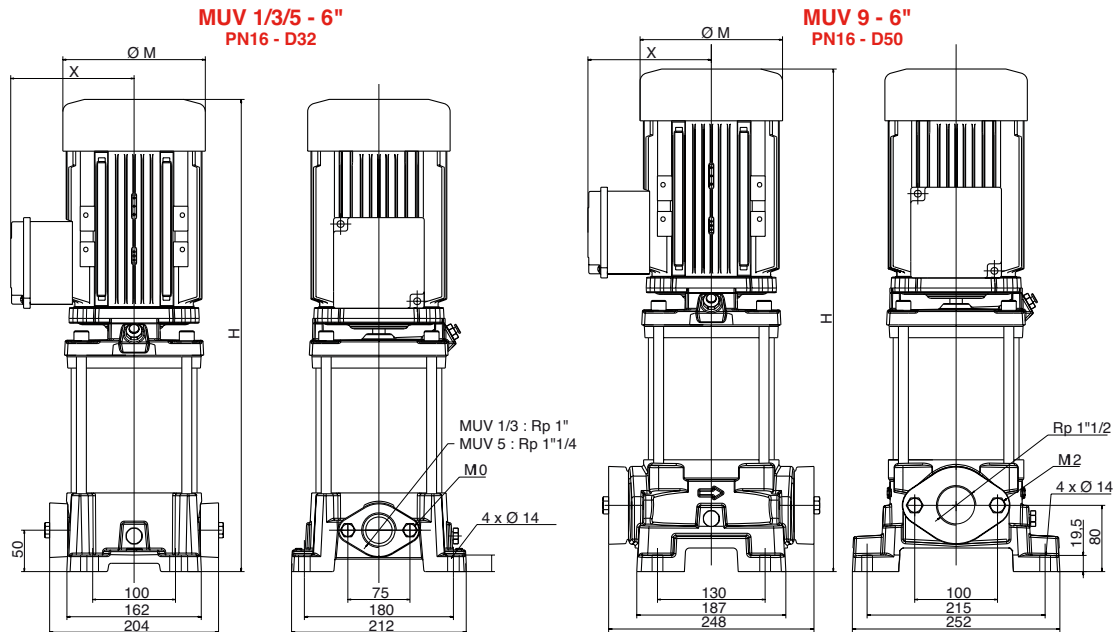
**INSTALLATION DIAGRAMS**

• Flooded suction pump on storage tank or mains water system (with low-water protection system)

• Pump in suction mode



## ELECTRICAL AND DIMENSIONAL SPECIFICATIONS



TYPE	P2 kW	Efficiency according to load %			1x 230	3x230	3x400	Pmax Bar	H mm	M mm	X mm	Weight kg	μF (single-phase version)	DN
		4/4	3/4	2/4	A	A	A							
MUV102	0,37	-	-	-	4	1,7	1	10	418	121	110	17,5	15	32
MUV103	0,37	-	-	-	4	1,7	1	10	418	121	110	17,8	15	32
MUV104	0,37	-	-	-	4	1,7	1	10	418	121	110	18,1	15	32
MUV105	0,55	-	-	-	4	3,1	1,8	10	438	121	110	18,4	15	32
MUV106	0,55	-	-	-	4	3,1	1,8	16	458	121	110	18,7	15	32
MUV107N	0,75	79	78,6	75,1	4,7	3,1	1,8	16	485	136	118	21,9	20	32
MUV108N	0,75	79	78,6	75,1	4,7	3,1	1,8	16	525	136	118	22,2	20	32
MUV109N	1,1	80,1	80,2	77,6	7,5	4,2	2,4	16	525	136	118	22,5	25	32
MUV110N	1,1	80,1	80,2	77,6	7,5	4,2	2,4	16	545	136	118	22,8	25	32
MUV112N	1,1	80,1	80,2	77,6	7,5	4,2	2,4	16	585	136	118	23,3	25	32
MUV302	0,37	-	-	-	4	1,7	1	10	410	121	110	17,6	15	32
MUV303	0,55	-	-	-	4	3,1	1,8	10	410	121	110	17,9	15	32
MUV304N	0,75	79	78,6	75,1	4,7	3,1	1,8	10	441	136	118	21,3	20	32
MUV305N	0,75	79	78,6	75,1	4,7	3,1	1,8	16	465	136	118	21,7	20	32
MUV306N	1,1	80,1	80,2	77,6	7,5	4,2	2,4	16	489	136	118	20,4	25	32
MUV307N	1,1	80,1	80,2	77,6	7,5	4,2	2,4	16	513	136	118	22,4	25	32
MUV308N	1,5	82,1	81,6	78,4	9,6	5,6	3,3	16	544	156	126	25,7	40	32
MUV309N	1,5	82,1	81,6	78,4	9,6	5,6	3,3	16	592	156	126	26,1	40	32
MUV310N	1,5	82,1	81,6	78,4	9,6	5,6	3,3	16	592	156	126	26,5	40	32
MUV312N	2,2	83,4	84	82,9	-	7	4,1	16	640	156	126	27,2	-	32
MUV502	0,55	-	-	-	4	3,1	1,8	10	410	121	110	17,7	15	32
MUV503N	0,75	79	78,6	75,1	4,7	3,1	1,8	10	417	136	118	21,1	20	32
MUV504N	1,1	80,1	80,2	77,6	7,5	4,2	2,4	10	441	136	118	21,5	25	32
MUV505N	1,1	80,1	80,2	77,6	7,5	4,2	2,4	16	465	136	118	21,8	25	32
MUV506N	1,5	82,1	81,6	78,4	9,6	5,6	3,3	16	496	156	126	25,2	40	32
MUV507N	1,5	82,1	81,6	78,4	9,6	5,6	3,3	16	520	156	126	25,6	40	32
MUV508N	2,2	83,4	84	82,9	-	7	4,1	16	544	156	126	26,0	-	32
MUV509N	2,2	83,4	84	82,9	-	7	4,1	16	592	156	126	26,3	-	32
MUV902N	0,75	79	78,6	75,1	4,7	3,1	1,8	10	463	136	118	23,5	20	50
MUV903N	1,1	80,1	80,2	77,6	7,5	4,2	2,4	10	463	136	118	23,9	25	50
MUV904N	1,5	82,1	81,6	78,4	9,6	5,6	3,3	10	500	156	126	27,3	40	50
MUV905N	2,2	83,4	84	82,9	-	7	4,1	16	530	156	126	27,8	-	50

## RECOMMENDED ACCESSORIES



• ACSON: on/off control and low-water protection device.



• Protective slave switch for three-phase motor

• Strainer foot valve



• Non-return valve



• Shut-off valve

• Vibration-damping sleeves



• Vibration-damping sleeves



• Bladder tank



• Surge tank



## FEATURES

### a) Electrical

- "T" types: 230-400 V - 50 Hz three-phase
- "M" types: - 230 V - 50 Hz single-phase with capacitor integrated into the terminal box.
- Three-phase motors **MUST** be protected by a slave switch.
- Stuffing box used for connections to the motor terminal box.

### b) Fitting

- On solid base using foundation bolts.
- Installation of pump in suction mode with compulsory strainer foot valve, or flooded suction mode on storage tank or mains water system with low water protection kit.
- Connection to pump via a flexible hose or rigid piping.
- The installation must allow for the protection of the pump against adverse weather conditions and frost (avoid direct exposure to rain or sun).

### c) Packaging

Pump delivered in cardboard packaging, without connection fittings.

## OPTIONS AND ACCESSOIRES

- Shut-off valves
- Non-return valves
- Strainer foot valve
- Vibration-damping sleeves
- Suction kit
- Bladder or galvanised tanks
- Surge tanks
- ME low-water protection kit
- ACSON: on/off control and low-water protection device
- Protective slave switch for three-phase motor...

