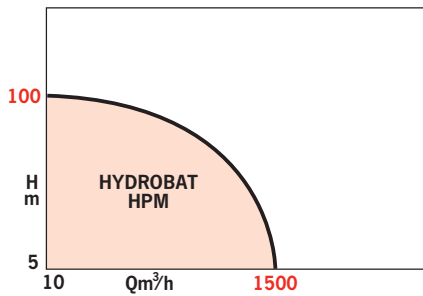


OPERATING LIMITS

Flow rates up to:	R.I.A.:	60 m ³ /h
	Sprinkleur:	1500 m ³ /h
Head up to:	R.I.A.:	64 mCE
	Sprinkler:	100 mCE
Max. water temperature:		+ 45°C
Max. service pressure:		10 bar*

*except for sprinklers in very high buildings.



- Direct water supply by-pass option to by-pass the pumps



- Lack of water float switch for version "B" on the storage tank



- Pump PM equipment R.I.A module



- HYDROBAT HPM R.I.A version "V" with pressurestat for lack of water for connection to mains water

HYDROBAT HPM

FIRE PROTECTION BOOSTER PUMPS

APSAD CONFORMITY

50 Hz

APPLICATIONS

R.I.A.

Supply of water from R.I.A (Reinforced Hydrants) and maintaining fire networks under pressure.

SPRINKLERS

Electropump unit assuring the maintaining under pressure of a fixed water extinction installation of the SPRINKLER type.

Protection of:

- office buildings,
- hotels,
- shops,
- hospitals,
- commercial centres,
- schools, colleges,
- industrial buildings.

HYDROBAT HPM

ADVANTAGES

- Compact module, preset in the factory and ready to install.
- Very reduced floor space requirement .
- Easy installation: 2 hydraulic connections and one electrical link.
- Controls and protections grouped in the cubicle which assures an integral automatic operation.
- Total security of operation thanks to the standby pump, put into operation automatically on the failure of the pump in service.

R.I.A MODULE DESCRIPTION

- 1 - Horizontal monoblock pump PM
- 2 - Support
- 3 - Operation and control device
- 4 - Intake collector
- 5 - Discharge collector
- 6 - Pumps automatic control pressurestat
- 7 - Pressure gauge
- 8 - Lack of water pressurestat (mains version)
- 9 - Reservoir fitted on collector or supplied separately according to capacity
- 10 - By-pass option : assures a direct supply without passing through the pumps when the mains water pressure is sufficient (delivered connected when ordered)
- 11 - Capillary

IDENTIFICATION

HPM 40 - 160 - 5.5 - V - T4 - 1 - M/V/CB

Booster name

ND or Ø.

of discharge

ND impeller

Motor power

(P2) in kW

Accessory binding:

dry-running protection

Supply:

- V: mains network

- B: tank network

Network voltage

T4: 3PH. 400 V

Vessel code:

- 1 = vessel 24l

12/18 bar ;

- 3 = capacity and

pressure to be given.

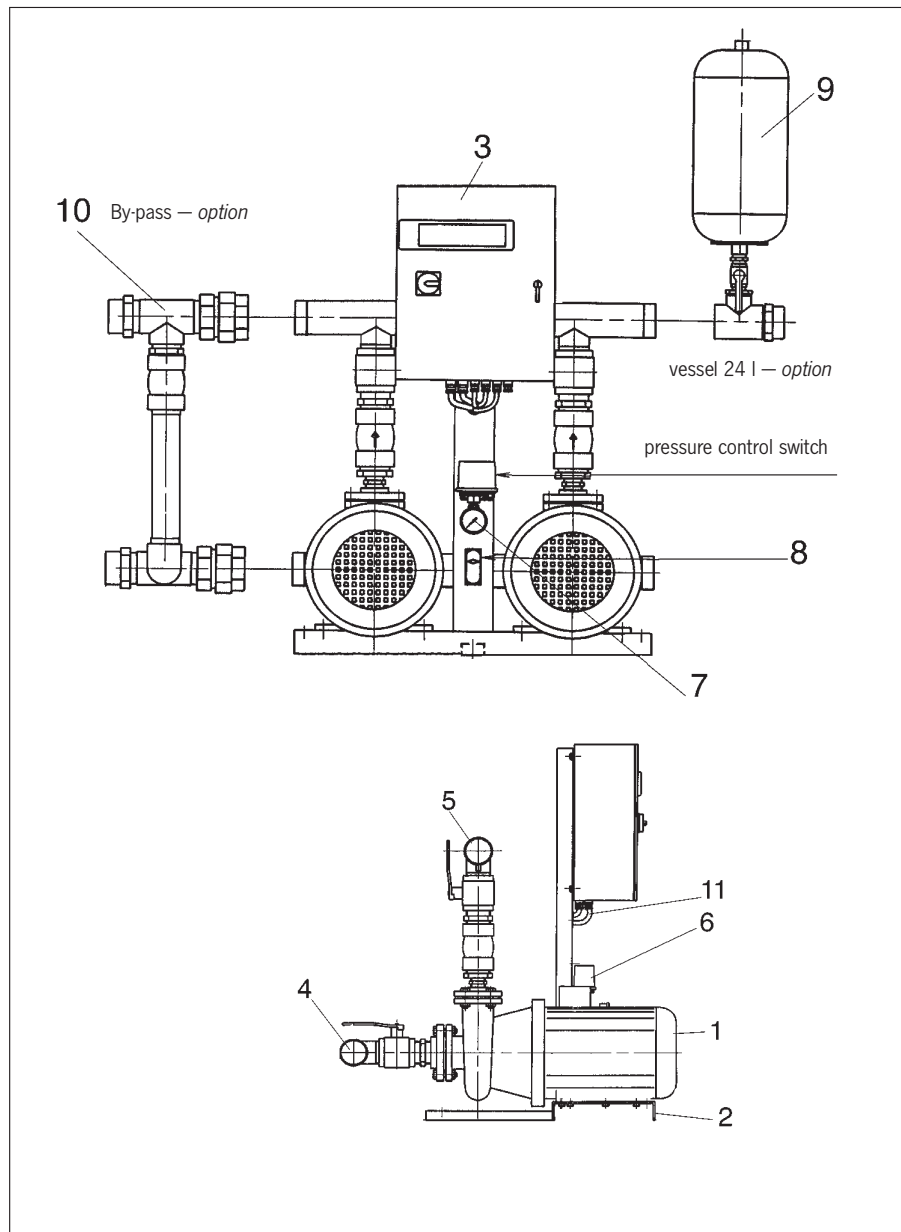
Optional accessories:

- M: antivibration sleeves

- V: Isolating valves

- CB: Counter flange

BOOSTER DESCRIPTION



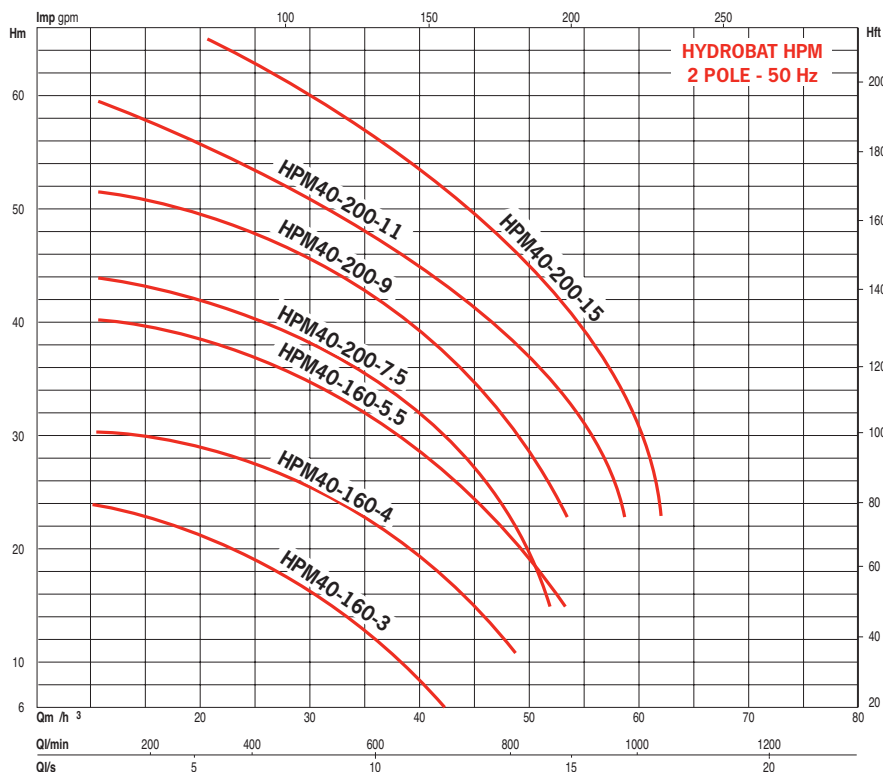
CONTROL DEVICE (3)

- Assures the integral automation of the booster pump
- Sealed, protection IP55
- Thermal protection of the motors set in the factory at the nominal current indicated on the motors
- External safety switch which also switches on the module
- Closure by lock and key

FRONT OF CONTROL DEVICE:
(not shown)

- Switched on indicator
- Lack of water indicator
- Pump by pump fault indicator
- Drive by pump indicator
- 3 position per pump switch:
auto - stop - manual (fugitive) and general isolator.

R.I.A. HYDRAULIC PERFORMANCES AT 2900 RPM



STANDARDS AND REGULATIONS

* R.I.A.: Reinforced fire hydrant

- NF S 62-201 (August 1985): fire fighting equipment.
- Regulation R5-APSAD: reinforced fire hydrants.

* Sprinklers: SOURCE A and B

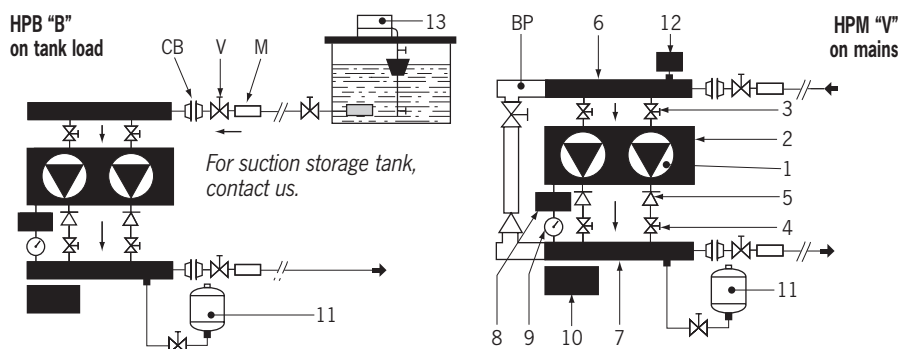
- NF S 62-210 (December 1985): rules of conception, calculation and implementation.
- NF S 62-211 (December 1985): characteristics of constituting elements.
- NF S 62-212 (December 1985): acceptance trials. Surveillance, maintenance and verification.
- NF S 62-214 (December 1985): risk classification. Combination of water sources.
- NF S 62-215 (December 1985): specifications and trial methods of sprinklers.
- NF S 63-125 (September 1990): fire fighting equipment. Centrifugal pumps.

Regulation 1 (March 1994): automatic extinction by water type sprinkler.

H1 part 1 (March 1997): control cubicles and control of diesel motor driven pump units.

H1 part 2 (March 1997): control cubicles and control of electric motor driven pump units.

WATER SUPPLY OF BOOSTER PUMP



OPTIONAL SUPPLIES

(in price supplement)

BP - By-pass permitting the direct supply in water, when the mains water pressure is sufficient, without the aid of the booster pump.

M - Anti-vibration coupler (2 supplied).

CB - Round counter flanges for welding for collectors (2 supplied).

V - Module isolating valves.

R - Monofitting reservoir* in replacement for the one already fitted on the module*.

To be given with order:

The capacity and the test pressure.

NB

The vessel is supplied unmounted.

Conformity of SALMSON electropump units:

* R.I.A.: HPM-R.I.A. conformity, NF S 62-201/AP8AD, R5;

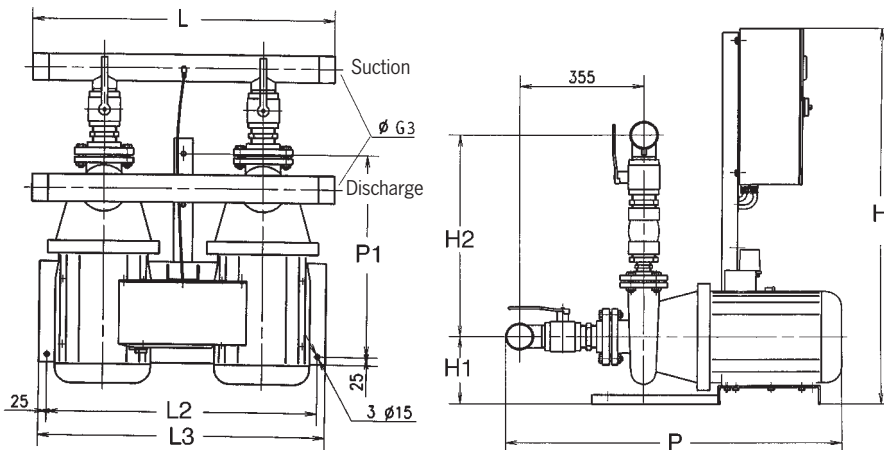
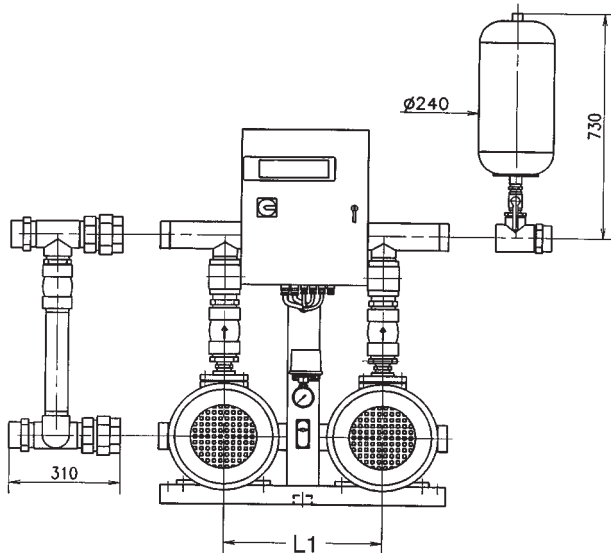
* Sprinkler: for the range of listed NO pumps, conformity of the NO pumps with APSAD, R1.

* Control cubicles of electropump units:

- conformity with APSAD, R1;
- APSAD H1, part 2 approval: sprinkler electropump control cubicle, source B;
- APSAD H1, part 2: sprinkler electropump control cubicle, source A;
- APSAD H1, part 2: jockey electropump control cubicle;
- APSAD H1, part 2: glycoled jockey electropump control cubicle;
- APSAD H1, part 2: Normal/Standby sprinkler control cubicle.

HYDROBAT HPM

ELECTRICAL DATA AND DIMENSIONS



FEATURES

a) Electrical

- Modules 3PH 400 V (T4) – 50 Hz.

All the control elements are connected in the factory.

To be carried out on the cubicle: the supply network to the isolator terminals, float switch if the module is connected to a storage tank.

b) Installation

- On a perfectly horizontal floor.

Hydraulic connections:

- On the inlet - outlet collectors by threaded pipes or by flanges according to the model.

- The non-utilised orifices will be blocked by plugs or blind counter flanges supplied with the booster pump.

c) Packaging

- Delivered on pallet.

d) Maintenance

- Exchange or repair the element known to be defective.

- The pumps have recommended spare parts for those subject to wear.

BOOSTER PUMP ON MAINS "V" or ON TANK "B"	motor rating P2	total installed power 2 pumps P2	nominal current in A at 3ph (per pump) T4	suction collectors ref.	H	L	P	H1	H2	L1	L2	P1	approx. mass	
	kW	kW	400 V	ND	mm	mm	mm	mm	mm	mm	mm	mm	without by-pass kg	of by-pass kg
HPM 40-160-3	3	6	6.7	threads G3	1200	850	800	270	620	400	700	475	176	13
HPM 40-160-4	4	8	8.7	threads G3	1200	850	840	270	620	400	700	475	192	13
HPM 40-160-5.5	5.5	11	11.5	threads G3	1200	850	930	202	620	400	700	475	218	13
HPM 40-200-7.5	7.5	15	16	threads G3	1220	950	945	202	650	400	850	650	262	13
HPM 40-200-9	9	18	18	threads G3	1220	950	945	202	650	400	850	650	292	13
HPM 40-200-11	11	22	22.8	threads G3	1220	950	1080	230	650	500	850	650	326	13
HPM 40-200-15	15	30	28.9	threads G3	1220	950	1080	230	650	500	850	650	343	13