

ARI-Condensate recovery and return station

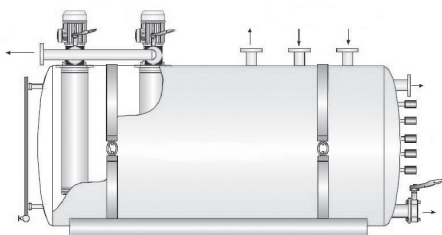
Volume: 150-850 liter

ARI-CORsys®-St-R

Condensate recovery and return station

Standard design

- Ready for operation condensate recovery and return station with zinc coated receiver made of S235JRG2 (St37)
- Pump made of EN-JL1030 / 1.4301
- Valves optionally made of
EN-JL1040
EN-JS1049
1.0619+N



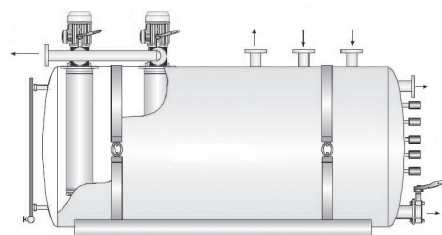
(Example version)

ARI-CORsys®-SSSt-R

Condensate recovery and return station

Standard design made of stainless steel

- Ready for operation condensate recovery and return station with receiver made of 1.4301 / 1.4571
- Pump made of 1.4401
- Valves optionally made of 1.4408



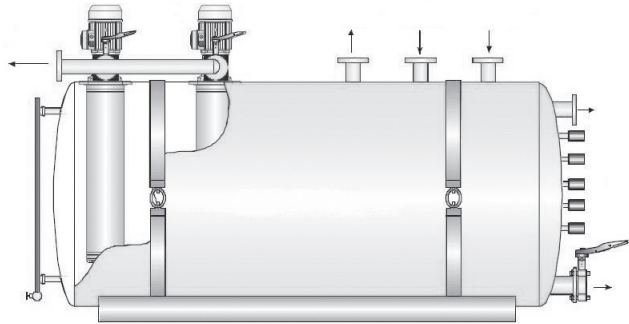
Features:

- Process security through harmonized individual components
- Protection against running dry and high water
- Redundant pump protection (two pumps)
- Fixed liquid levels
- High-quality corrosion protection through stainless steel possible
- Supplied ready for installation
- Service through plant documentation

ARI-CORsys® Condensate recovery and return station

ARI-CORsys®-St-R Standard design

ARI-CORsys®-SSt-R Standard design made of stainless steel

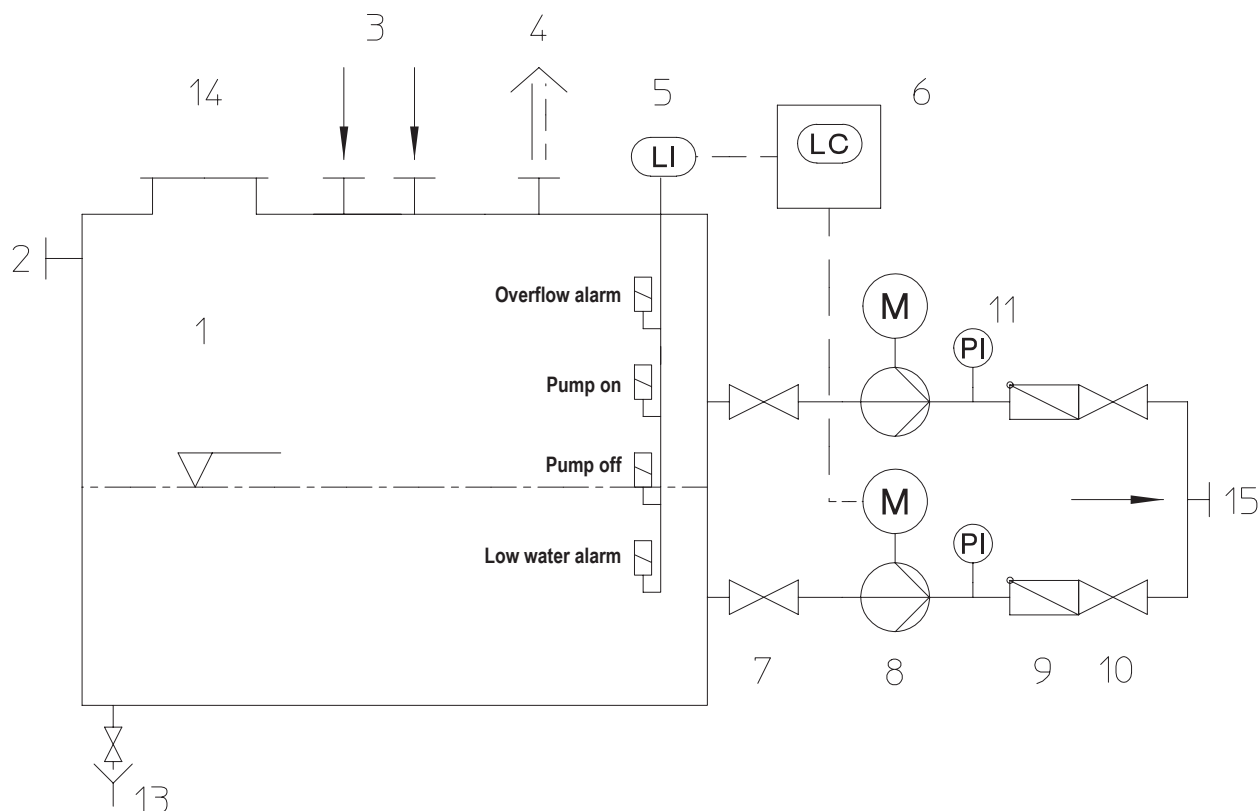


(Example version)

Dimension and weights

refer to plant drawing or plant specification sheet

Type	Volume
	(Ltr.)
CRS1-R	150
CRS2-R	200
CRS3-R	300
CRS4-R	400
CRS5-R	500
CRS7-R	750
CRS8-R	850



Pos.	Description	Material			
		PN16 - 12.CRS-R	PN16 - 22.CRS-R	PN16 - 32.CRS-R	PN16 - 52.CRS-R
1	Receiver	S235JRG2, 1.0038 (zinc coated) / P250GH, 1.0460			X5CrNi18-10, 1.4301 / X6CrNiMoTi17-12-2, 1.4571
2	Overflow (to the outside)	P235TR2, 1.0255 / P250GH, 1.0460			X6CrNiMoTi17-12-2, 1.4571
3	Condensate feed (the number of receiver connections varies in accordance with the size of the receiver)				
4	Vapour pipe connection (vent to the outside)				
5	Level measuring	Sst / Polymer			SSt / Polymer
6	Liquid level controller	Al / Polymer housing			
7	Stop valve, Suction side (ARI EURO-WEDI)	EN-JL1040, EN-GJL-250			GX5CrNiMo19-11-2, 1.4408
8	Low-NPSH-pump	EN-JL1030, EN-GJL-200 / X5CrNi18-10, 1.4301	EN-JS1050, EN-GJS-500-7 / X5CrNi18-10, 1.4301		X5CrNiMo17-12-2, 1.4401
9/10	Stop valve, Pressure side ARI-STOBU with non-return function (LK+F)	EN-JL1040, EN-GJL-250	EN-JS1049, EN-GJS-400-18U-LT	GP240GH+N, 1.0619+N	GX5CrNiMo19-11-2, 1.4408
11	Pressure gauge, complete	St / SSt			
13	Drain to the outside	St / SSt			
14	Inspection opening	P235TR2, 1.0255 / P250GH, 1.0460			X6CrNiMoTi17-12-2, 1.4571
15	Outlet				
	Pipes / flanges				

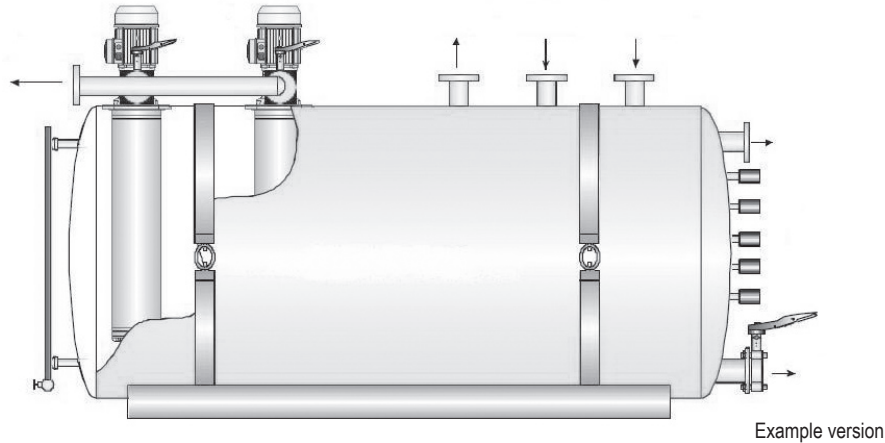
Information / restrictions in the technical rules must be observed!

Permissible operating temperature 95 °C, receiver pressure atmospheric, pump pressure side max. pressure load, see delivery head diagram..

Application

The ARI condensate recovery and return station is used in steam systems and serves to return the accruing condensate for reuse. The condensate pumps that are used remove the condensate from the receiver and transport it back to the boiler installation.

The station is a compact installation premounted on a base frame and consists of high-quality individual components. An On/Off water level control with a safety switch for dry running and high water protection guarantees safe operations. The pump's output is controlled in dependence on the level in the receiver. Recirculation protection is ensured through the installation of check valves. The strainers that are fitted provide additional security..



PED 97/23/EC, MD 98/37/EC, EMC 89/336/EEC, LVD 73/23/EEC

Evaluation in accordance with PED 97/23/EC (Fluid Group 2)

The evaluation of an installation (assembly of pressure vessels) is aligned to the correspondingly highest category of an installation component 2. Art. 10 Paragraph 2. If all the individual components of a subassembly fall under Art. 3.3 (sound engineering practice), the installation may not display a CE mark in accordance with PED. If the subassembly falls to the maximum under Category I and under Article 1, Paragraph 3.6, the subassembly does not fall under the Pressure Equipment Directive.

Declaration of conformity/manufacture's declaration: See the last page in the current operating instructions for the above-mentioned EC Directives.

Operating instructions can be ordered by phone (+49 52 07) 994-0 or fax (+49 52 07) 994-158 or 159..

Designs

Code	Design	Type	
		CRS-St-R	CRS-SSt-R
A	Without controller Receiver only with fittings and pumps	O	O
B	Level electrode + pump controller Completely wired with the switchgear cabinet	O	O
C	Inspection glass liquid level indicator + electromagnetic switch Completely wired with switchgear cabinet	O	O
D	Controller assembly kit Level electrode premounted and enclosed with pump controller	O	O
E	Controller assembly kit Inspection glass liquid level indicator + electromagnetic switch premounted	O	O
J	Receiver made of S235JRG2 (St37) zinc coated	X	--
K	Receiver material 1.4301 / 1.4571	--	X
M	Receiver non insulated	X	X
O	Receiver insulated via factory	O	O
P	Receiver with insulation bracket	O	O
S	One pump (single)	O	O
T	Two pumps (twin)	X	X

X = Standard design / O = Special design

Receiver volume = 1/4 to 1/3 of the accruing condensate volume
Pump output = 2 to 3 times the accruing condensate volume

System code::

Type ARI-32.CRS-R (PN16 standard)
ARI-52.CRS-R (PN16 stainless steel)
Type of pump Pump (see diagram on page 6-7)
Special design Code A to T (see page 4)

Example:

Condensate volume 1600 liter/h, Delivery head 20 m, Receiver material stainless steel 1.4301, two pumps

Type 52 - CRS-R 10 - T Condensate recovery and return station
- Type 52-CRS-R 4 (receiver volume 400 litres)
- Receiver made of material 1.4301
- Two pumps (Code T see page 4)
- Pump SVI 403S, 4 m³/h, 20 m delivery head (see page 6)

Please indicate when ordering:

1. **ARI-CORsys®** Type _____
z.B. Type 52 - CRS-R4 - T
2. Condensate volume _____ (m³/h)
3. Pump delivery head _____ (m)
4. Connection Feed DN _____, number _____; Vapour pipe PN16 DN _____; Overflow PN16 DN _____;
Pressure side (outlet) PN16 DN _____
5. Receiver volume _____ (l)
6. Receiver shape ☐ round lying
7. Pump design _____ see diagram, output curve
8. Length of vapour pipe _____ (m)
9. Power supply for pump _____ (V), _____ (Hz), protection class _____ (standard IP54)
10. Dimension of installation location (if known) _____ (m) / _____ (m) / _____ (m)
(clearance to wall or room dimensions)
11. Design deviation from standard _____ Code A to T (see page 4)
12. Material

Pump	<input type="checkbox"/> EN-JL1030/1.4301 (GG/stainless steel) <input type="checkbox"/> EN-JS1050/1.4301 (GGG/stainless steel) <input type="checkbox"/> 1.4401 (stainless steel) <input type="checkbox"/> 1.4401 (stainless steel / gun metal impeller)
Valves	<input type="checkbox"/> EN-JL1040 <input type="checkbox"/> EN-JL1049 <input type="checkbox"/> 1.4408

Diagram SVI 2

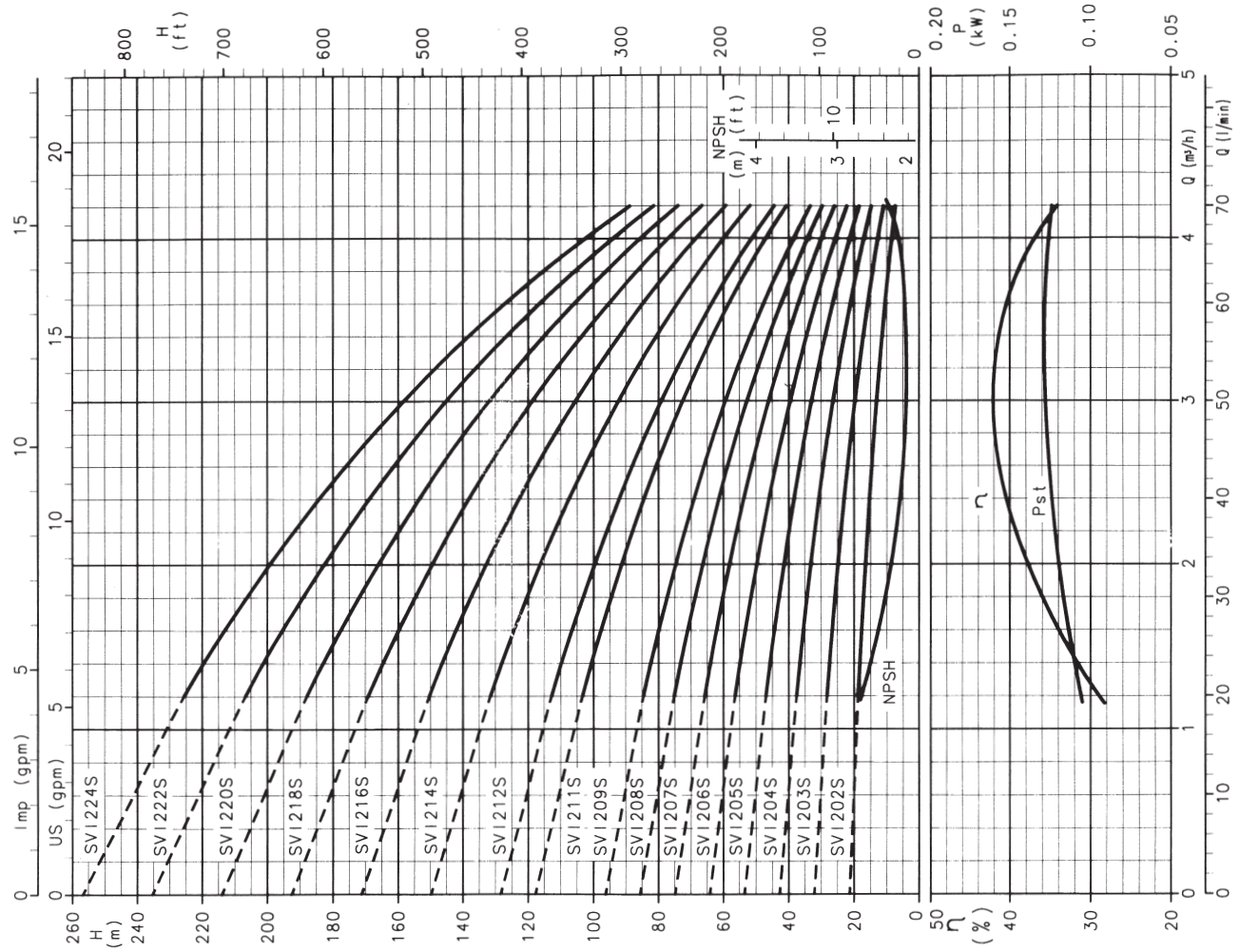


Diagram SVI 4

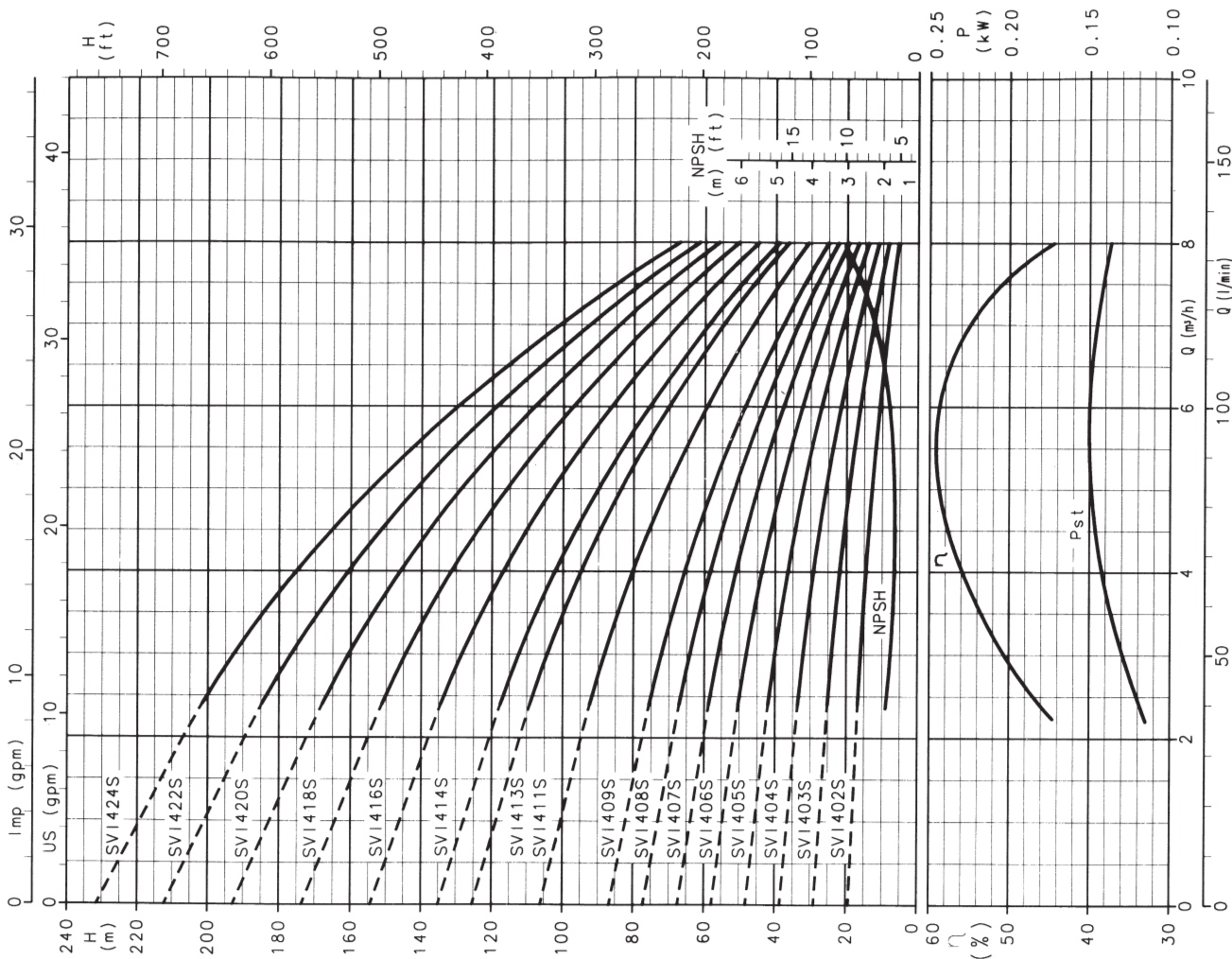


Diagram SVI 8

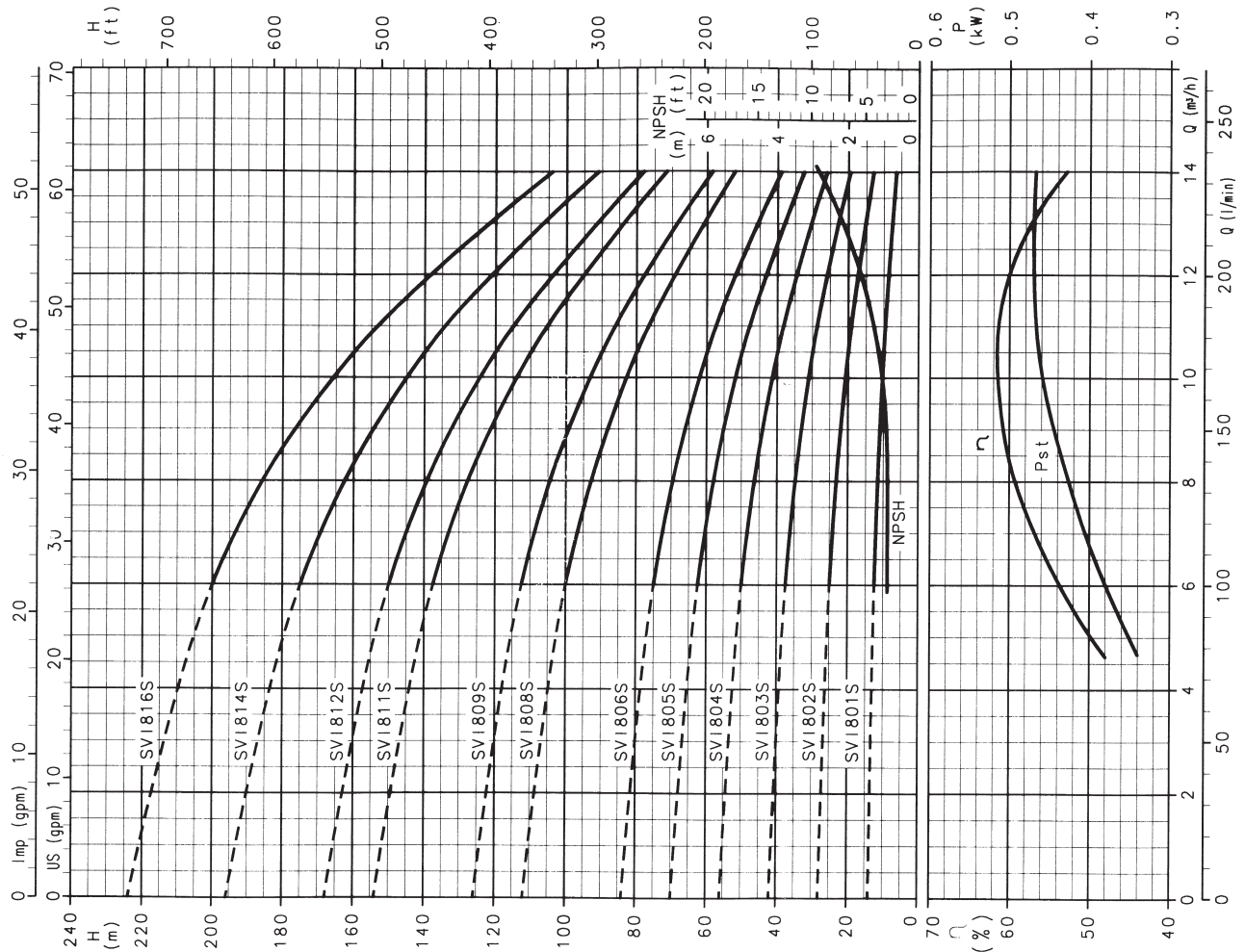
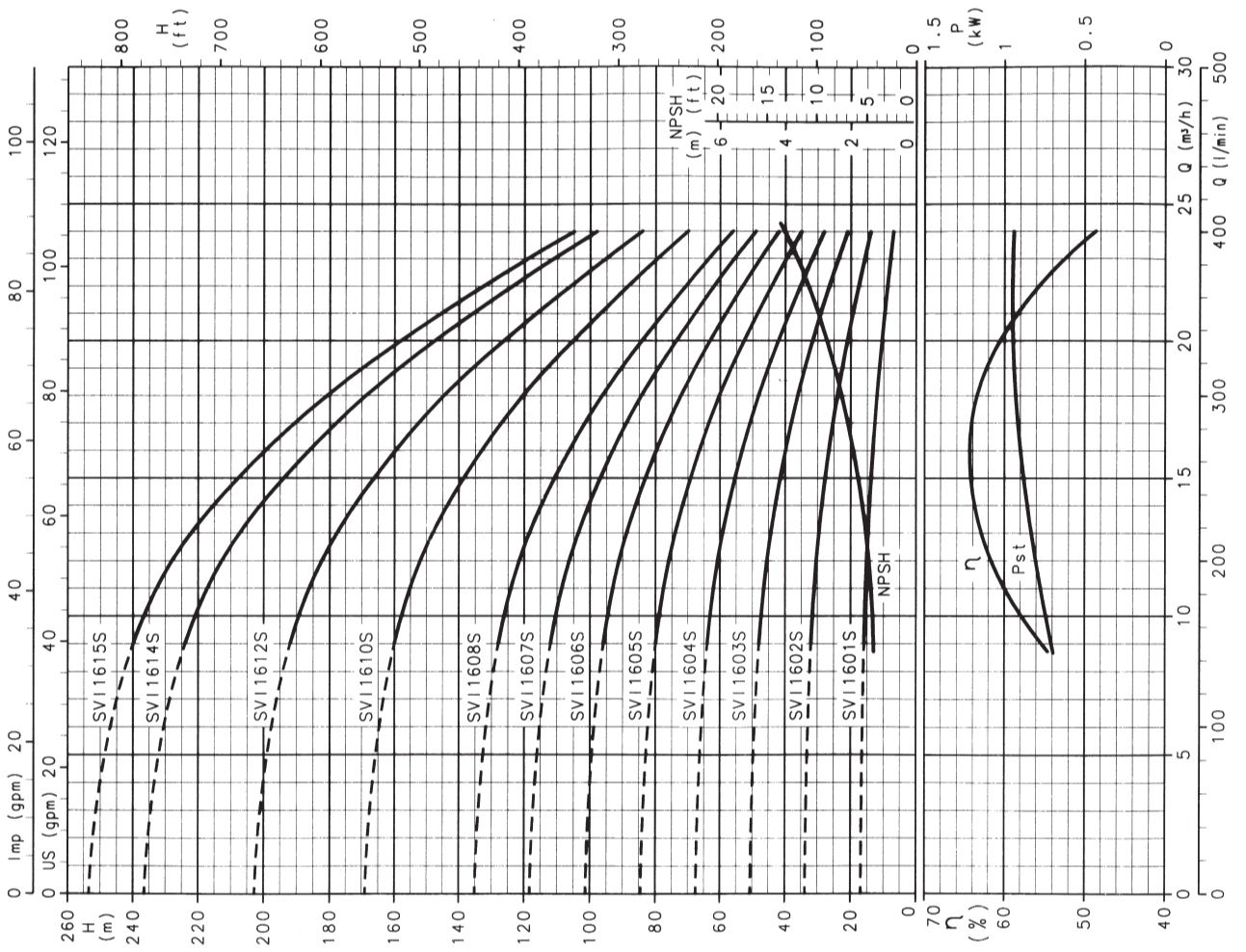


Diagram SVI 16





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