EXAMPLES OF INDUSTRIAL APPLICATIONS
LocPower: equipment

1. SYNCHRONOUS GENERATOR

2. ACTUATOR

3. ELECTRICAL CONTROL PANEL (Inverter + AFE)
   Energy recovery 0–100%
LocPower®: Installation point 1

COMPENSATION RESERVOIR

GRAVITY-FED INTAKE / RESERVOIR

PUMP STATIONS

WATER INTAKE

P0

RETURN IN NETWORK

P1

P1

P1

USERS
LocPower®: Installation point 2

WATER TANKS
LocPower®: Installation point 3

WATER SUPPLY MAINS
LocPower®: Installation point 4

GRAVITY-FED PIPELINES

INDUSTRIAL USE (steelworks, paper industry, rolling, thermal powerplants, etc.)

ACQUEDUCTS / IRRIGATION / INDUSTRY
LocPower®: Installation point 5

WATER SUPPLY FOR HYDRO POWER-PLANTS

P1

P2

TUNNEL

POWER-PLANT
LocPower®: Installation point 6

MINIMAL VITAL OUTFLOW (MVO)
SMALL AND MEDIUM HYDRO-POWER
LocPower®: Installation point 7

DISTRICT HEATING SUBSTATIONS

PUMPING STATIONS

POWER-PLANT

P1

UNIVERSITY

HOSPITAL

INDUSTRIAL CLUSTERS

P1

P2

USERS
LocPower®: Installation point 8
LocPower®: Installation point 9

LEVEL CONTROL
TERMAL POWER-PLANTS / INDUSTRY
LocPower®: Installation point 10

TERMAL POWER-PLANTS / INDUSTRY

CONTROL OF THE CONSTANT MINIMAL FLOW
LocPower®: Installation point 11

PRESSURE REDUCTION AND FLOW CONTROL IN WATER COOLING SYSTEMS

WATER RESERVOIR

PUMPING STATION

STEELWORKS

ALUMINIUM FACTORIES

GLASS PRODUCTION

SUGAR MILLS

IRONWORKS

POWER PLANTS(*)

(*) COOLING TOWERS, COAL PRODUCTION, CO2 REDUCTION
LocPower®: Installation point 12

PUMPING/BOOSTER STATIONS
OIL DISTRIBUTION

OIL TANK/STORAGE

PUMPING STATION

P1

P2

FT

FT

FT

METERING STATION

MAIN PIPELINE

Energy Recovery from Flow and Pressure control in pumping stations or booster stations
LocPower®: Installation point 13

Energy recovery from pressure control to grant minimum flow rate and to protect the pumps
LocPower®: Installation point 14

Energy Recovery from Flow and Pressure control in loading applications
LocPower®: Installation point 15

WATER INJECTION PRODUCTION AND DISTRIBUTION
### System characteristics

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Min</th>
<th>Max</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ø  Pipe diameter</td>
<td>80 mm</td>
<td>600 mm</td>
</tr>
<tr>
<td>Q  Flow rate</td>
<td>15 l/s</td>
<td>1000 l/s</td>
</tr>
<tr>
<td>Δp  Pressure drop</td>
<td>1 bar</td>
<td>30 bar</td>
</tr>
<tr>
<td>h  Operating time</td>
<td>h/anno</td>
<td>h/anno</td>
</tr>
</tbody>
</table>

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Let’s do More With Less
Energy Flow Solutions for Sustainable Future

LOCALAIN™
Energy Flow Solutions

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