CASE STUDY

PROJECT: SOUTHERN AQUADUCT CITY OF SALTA ARGENTINA

Premises

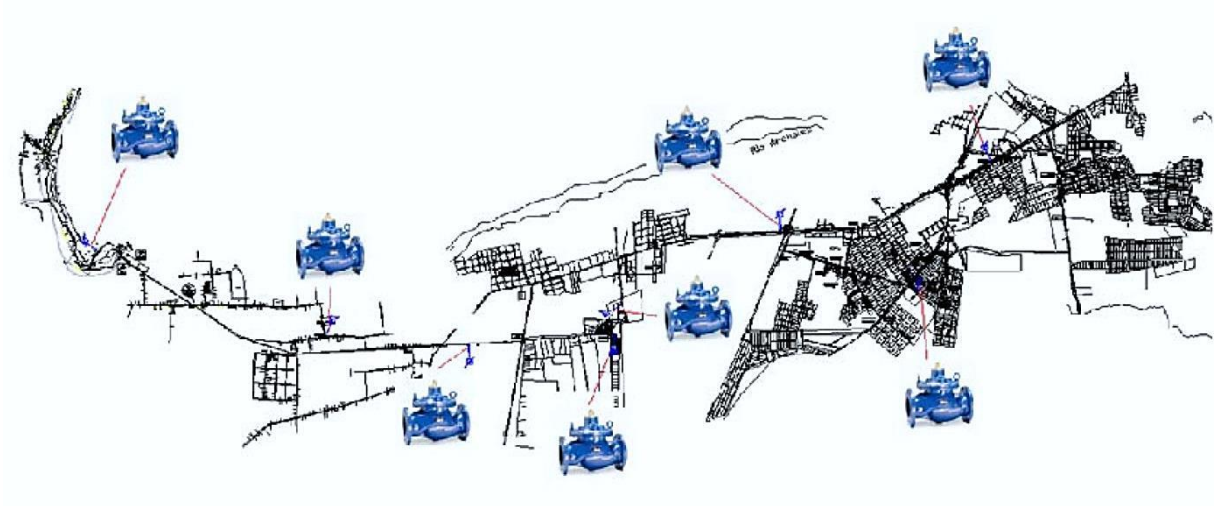
In 2005, Aguas de Salta launched a project to expand and improve the city's potable-water network. Up until that time, the majority of Salta's residents, as well as those in the valleys around the city's urban cone, were supplied with well-water via tanker-trucks.

The Challenge

The idea of laying the City of Salt's Southern-Aqueduct was conceived as a way to improve supply to 150,000 customers. This integrated system included capture points in the Arenales River, the reserve reservoir in Encon, the aqueduct itself, and the branch lines to the neighboring zones.
The aqueduct is entirely gravity-fed, and its 300 meters of height differential across its 28 km run must be regulated by means of the installing 8 pressure-reduction stations.

The Solution

Each pressure-reduction station incorporates a Dorot 300 series, rigid-sealing, pressure-reducing valve (sized 12" to 24" \ 300 to 600 mm) and is capable of assuring a fixed and stable downstream pressure, regardless of the upstream pressure or demand- flow variations. Each system is fitted with a Dorot 300 series quick-open relief valve at its downstream side. In addition, two Dorot combination air valves and two Dorot centric, butterfly shutoff-valves installed upstream and downstream of each pressure-reducing station.



PRESSURE REDUCING STATION

- Dorot 300 series pressure reducing valve – Size 24" \ 600mm
- Dorot 300 series Quick Pressure-Relief valve – Size 12" \ 300mm
- Dorot model DAV-MH combination air-valves – Size 8" \ 200mm (2 valves)
- Dorot model DBV-WF butterfly shutoff valves – Size 24" \ 600mm (2 valves)

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