

PUMA+ Centrifugal Pump

– cost-effective reliability and flexibility



The prime choice for standard duty operations

The APV PUMA+ is a single-stage, centrifugal pump designed specifically for standard duty applications in the food, dairy, brewery and beverage industries. Widely recognized for its low installation costs, problem-free operation, stringent hygiene standards and flexibility, the APV PUMA+ range comprises 3 basic pump configurations offering heads up to 7.8 bar (50 Hz), flow rates up to 135 m³/h (50 Hz), and system pressure up to 16 bar.

Range overview

APV PUMA+10

APV PUMA+20

APV PUMA+30



Ten prime benefits

Top hygiene performance
EHEDG approval

Gentle product handling using patented APV spiral volute positioned in the back plate

Straightforward, cost-effective shaft seal replacement simply by removing the pump housing and impeller

Identical seal rings for single and double mechanical seals

Simple integration into existing plant designs, often without any changes to piping layout and drawings

Optimum SIP and CIP with open impellers and superior shaft seal design with the spring located outside the product-wetted area

Simple and cost-effective maintenance including direct visual inspection of the shaft seal

Quick and simple switch from a single into a double mechanical shaft seal without special tools

Spare parts stock savings with wear parts such as shaft seals and O-rings identical to those of the premium APV W+ and the Ws+ series

Flexibility with pipe connections from DN40 to DN125 together with adjustable legs or brackets available in various heights

Additional features

Low NPSH applications

The variant PUMAi+ pumps use an inducer in the inlet to boost inlet pressure and reduce the risk of cavitation. This makes PUMAi+ pumps the perfect solution for applications with very low NPSH.

PUMAi+ pumps can also manage high viscosities and gaseous products where centrifugal pumps are normally inefficient to use.

The APV inducer is unique in that it is effective across a wider area of the pump's capacity, making it the most flexible choice.

Double mechanical shaft seal

PUMA+ pumps are available with a double mechanical seal for pressurised flushing or a barrier medium. PUMA+ pumps fitted with a standard single mechanical shaft seal can easily be converted for double mechanical shaft seal operation using two identical shaft seals and an adapter.

Additional options

- FPM elastomers
- Silicon carbide/Silicon carbide seal rings

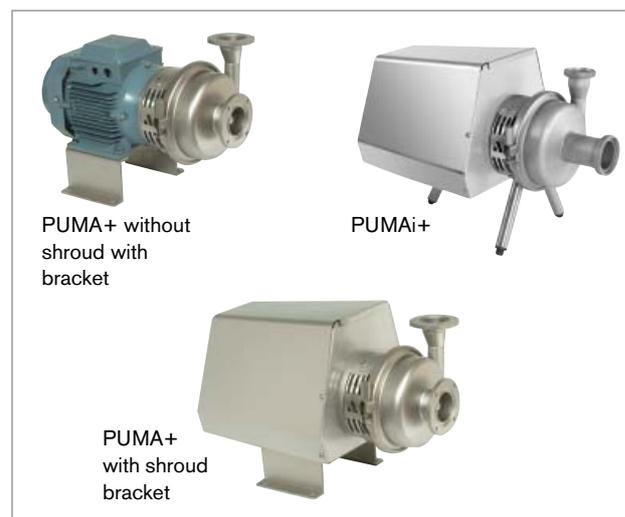
Other APV centrifugal pumps

APV W+

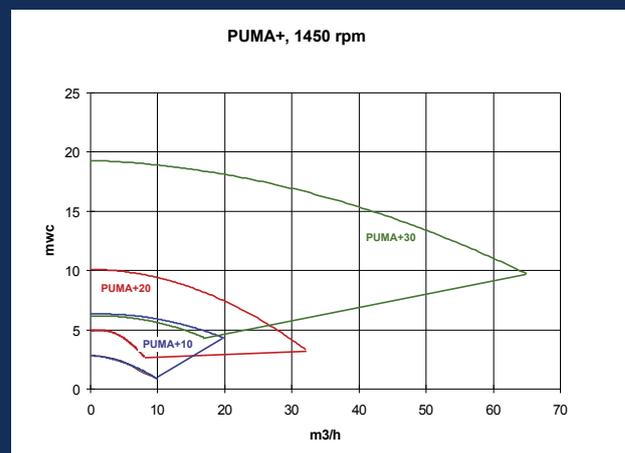
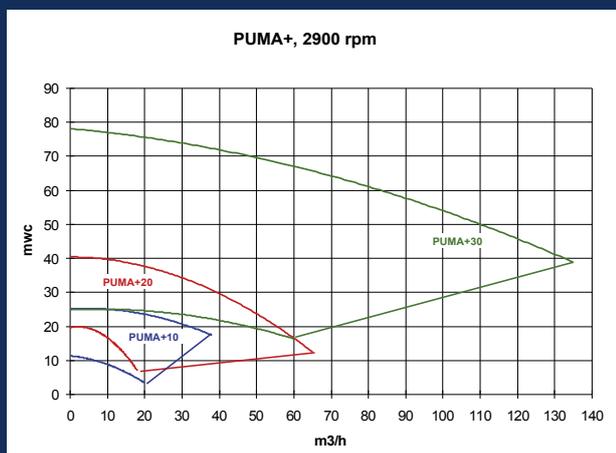
APV W+ is a comprehensive range of premium sanitary end-suction pumps designed to maximize the life time of the pump and minimize life cycle cost elements such as energy, maintenance and downtime/production loss.

APV Ws+

APV Ws+ is a range of sanitary self-priming pumps based on a unique technology applied exclusively by APV, showing substantial improvements over traditionally designed self-priming pumps.



Performance curves





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For more information about our worldwide locations, approvals, certifications, and local representatives, please visit www.apv.com.

SPX Corporation reserves the right to incorporate our latest design and material changes without notice or obligation. Design features, materials of construction and dimensional data, as described in this bulletin, are provided for your information only and should not be relied upon unless confirmed in writing.

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