



WHP+ PUMP SERIES

High-Pressure Centrifugal Pump



SPXFLOW®

STABLE. HYGIENIC. HIGH-PRESSURE PERFORMANCE.



The WHP+ delivers reliable, high-pressure performance for sanitary processes. It provides the pressure stability and hygienic cleanability required for reverse osmosis, evaporation, and product concentration, while maintaining gentle, non-pulsating flow to preserve product integrity.



The APV® WHP+ Series is the high-pressure model of the proven W+ pump range, engineered for demanding sanitary applications requiring system pressures of up to 40 bar (580 psi). Its reinforced stainless-steel construction enhances mechanical stability while optimised hydraulics deliver smooth, reliable flow for reverse osmosis, filtration and high-pressure transfer applications.

Designed for durability and cleanability, the WHP+ combines optimized hydraulic efficiency with low-vibration operation to maintain consistent flow and product integrity across a wide range of process conditions. Built to meet strict hygienic standards, it delivers dependable high-pressure performance for dairy, food, beverage, pharmaceutical, cosmetic and chemical production lines.

ENGINEERED FOR HIGH PRESSURE. DESIGNED FOR HYGIENE.

Designed to perform under pressure, the APV WHP+ features a reinforced construction that provides exceptional mechanical strength and durability for demanding sanitary processes. Engineered to meet the strictest global standards, it complies with EHEDG-certified and 3-A design requirements for sanitary processing applications with certificates available for high-running versions.

MAXIMUM OPERATING PRESSURE

WHP+ 30/80 – up to 40 bar
WHP+ 55/60 – up to 40 bar
WHP+ 60/110 – up to 40 bar
WHP+ 65/350 – up to 40 bar

SPECIFICATIONS AT A GLANCE

Max pressure: 40 bar (580 psi)
EHEDG certified, 3-A optional
Product contact: AISI 316L
Seals: Carbon/SiC or SiC/SiC
Elastomers: FKM or EPDM
Connections: S-Line and additional options
Motor: TEFC or washdown

ENGINEERED FOR DEMANDING APPLICATIONS.

TYPICAL APPLICATIONS

The WHP+ pump is engineered for demanding sanitary and industrial processes where high-pressure, hygiene and reliability are critical. From dairy processing to chemical production, it delivers stable, energy-efficient performance in applications requiring consistent flow and elevated system pressures.

Designed for system pressures of up to 40 bar, the WHP+ delivers reliable performance in challenging sanitary processing environments. Featuring a reinforced pump casing it provides exceptional mechanical strength, stability and reliable performance under elevated system pressures.

Operating on the centrifugal pump principle, the WHP+ converts velocity into pressure through optimised internal geometry, ensuring steady, non-pulsating flow. Its reinforced casing maintains performance under the differential pressures typical of reverse osmosis (RO), ultrafiltration (UF), and nanofiltration (NF) systems, helping to reduce cavitation risk and minimise energy loss.

By combining pressure stability with hygienic design, the WHP+ supports consistent, energy-efficient operation while protecting product integrity and downstream equipment.

HIGH-PRESSURE CAPABILITY

Designed for sanitary applications requiring system pressures of up to 40 bar.

STABLE, LOW-VIBRATION OPERATION

Reinforced construction enhances mechanical stability, reducing vibration and supporting long service life.

HYGIENIC DESIGN

The Whp+ Series is 3A approved and designed to EHEDG standards.

ENERGY-EFFICIENT HYDRAULICS

Optimized impeller and volute geometry for superior flow with lower energy use.

EASY MAINTENANCE

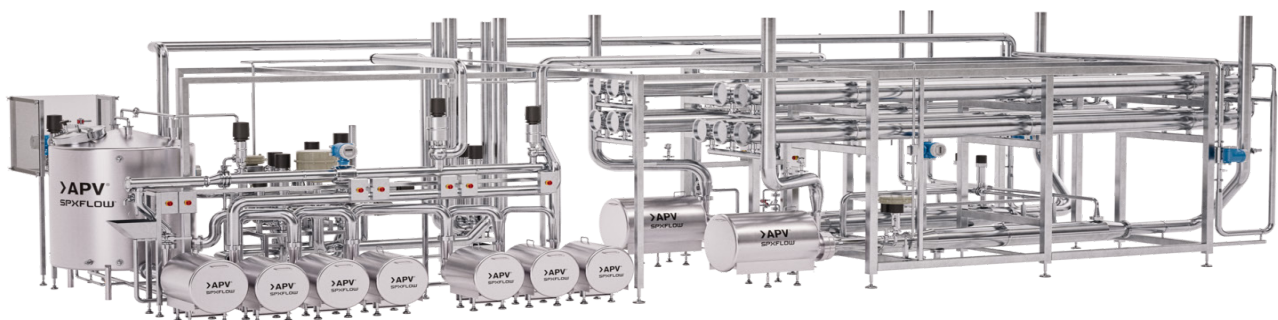
Front-loading seal design and modular construction simplify servicing.

FLEXIBLE SEAL CONFIGURATIONS

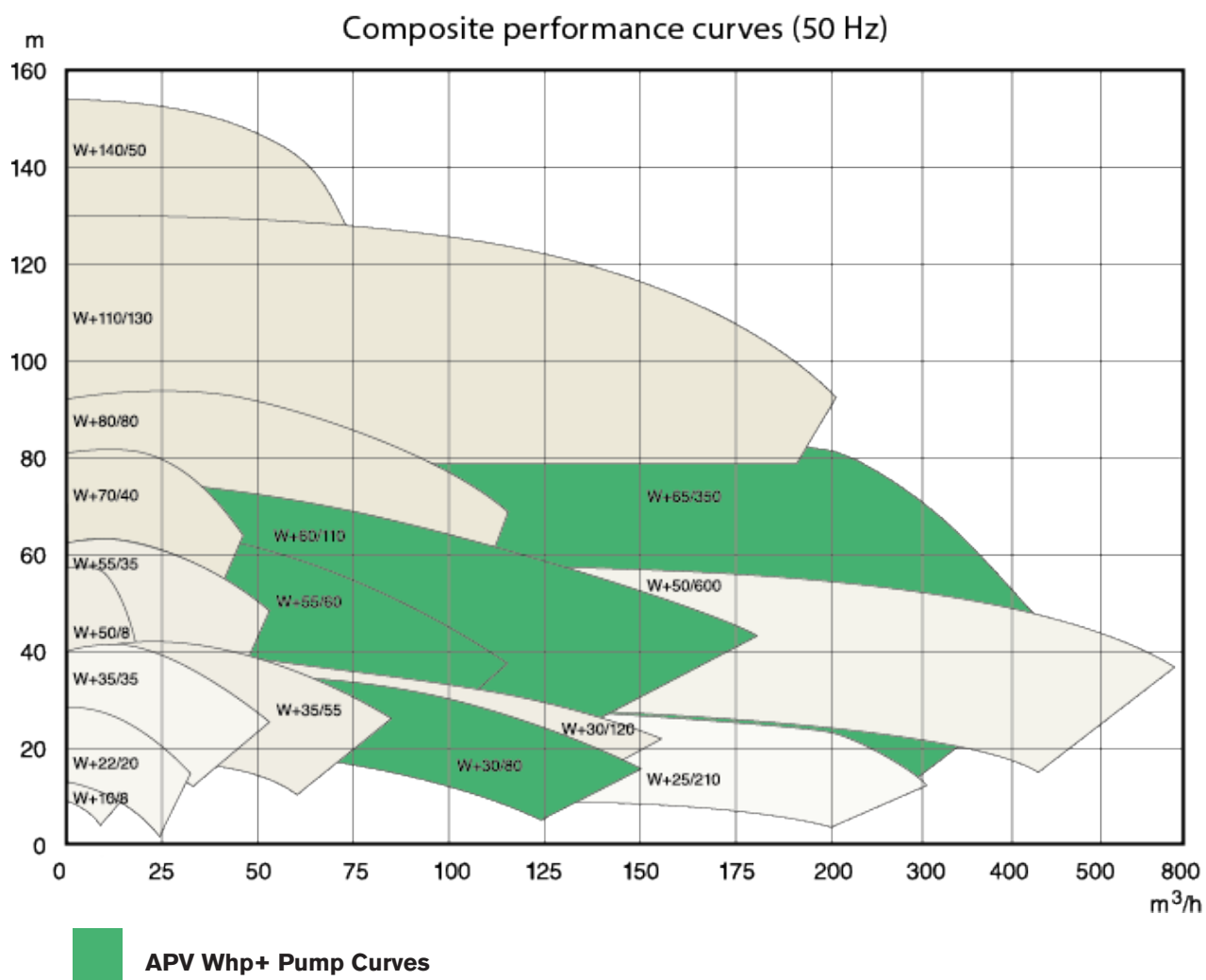
Available with single or double mechanical seals, including flushed seal options to suit demanding duties.

W+ PLATFORM COMPATIBILITY

Shares design philosophy and component commonality with the W+ range, simplifying integration and spares strategies.



TYPICAL PROCESS CONFIGURATION: APV REVERSE OSMOSIS NANOFILTRATION PLANT



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For more information, visit www.spxflow.com.