

Initiator Injection Pumps

Reliability since 1946.



PF-1 Phase Flow™

The independent nature of the PF-1 allows “phasing” of the HP cylinders. This unique feature pre-loads the catalyst in the second cylinder while the first is on its power stroke, essentially eliminating pressure drop associated

with shifting the supply from one cylinder to the other. With this innovative Technology the temperature profile within the reactor will get much smoother, allowing you to run closer to the optimum set-point. As improved rates can be achieved, the PF-1 can in most cases improve production without changing the process itself. The PF-1 features state-of-the-art electronic controls which allow monitoring and adjustment of the pump operation from the control room allowing preventative maintenance procedures to be performed.

Model PMH

PMH pump units have been designed and manufactured by McCartney and are in service for more than 45 years. This model was subject to an ongoing development process over the years providing improved performance and dependability. Pump units are designed to fit your specific requirements.



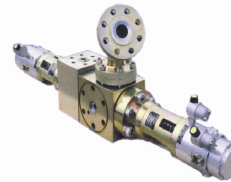
McCartney Pumps are self-contained, hydraulic powered metering pumps with pressures up to 60,000 PSI (4.136 bar). HP cylinders and check valves are manufactured of VAR 4340 alloy steel for long dependable service.

Product, Shutoff and Safety/Vent Valves

Valves are manufactured from selected heat-treated alloy steel forgings. Valve body and trim designs are furnished to meet customer specifications for particular service. Available pressure ranges are 5,000 to 75,000 PSI. Gear Driven, Pneumatic and Hydraulic actuators are available.

Dual Let Down / Vent Valve

This unique design configuration combines the Product and Vent Valve, allowing for a very compact and efficient valve package. The dual valve design reduces the length of “dead leg” gas to an absolute minimum, greatly reducing related problems such as gas degradation in that area. The Let Down body mounts directly to an Autoclave Reactor discharge or it can be spooled to the Tubular line.



High Speed Vent Valve

The McCartney High Speed Vent Valve combines the 2-piece McCartney vent valve design and pneumatic actuator with external manifold and oversize solenoid valve. The unique pneumatic actuator design allows for “stacking” of the 12” diameter pistons up to a total of six, reducing spare parts inventory.

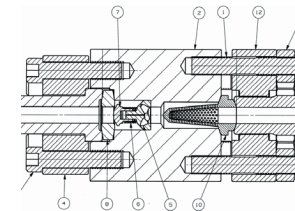
Process Control Valve

The McCartney PCV is a modern design of the Fisher CZA industry workhorse. This valve is dimensionally interchangeable with valves in service today. The internal configuration is a McCartney stem and seat design. Simple, robust construction has fewer parts and is more easily refurbished than other valves.



Injection Pump upgrades

McCartney’s continuous improvements on our Initiator & Modifier Pump Check Valves and High Pressure Cylinders are now available for nearly every Injection pump used today. The new design shortens maintenance time while enhancing reliability. Double Gland Seal captures leakage, protecting the environment



Reactor equipment

Strainers, Block, Fittings, Thermocouple and Injection Lens Rings and Cone Rings are manufactured in a variety of configurations. These include the full flange design, as well as the “Dogbone” design, and

of course the basic ring with thermocouple silver soldered in place. Specialized equipment such as Check Valve- Strainer combinations can be developed to meet specific process, mechanical, and material requirements for pressures up to 60,000 PSI (4.136 bar).

Hyper Compressor equipment

McCartney markets, manufactures and reconditions Ingersoll-Rand / Dresser-Rand and Clark plungers and other Hyper Compressor internal components according to original OEM specifications.

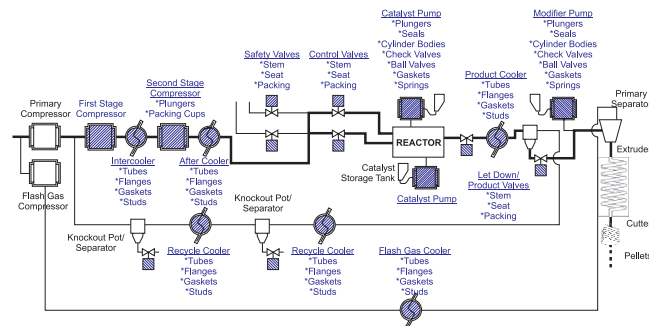


Extreme Pressure Equipment

McCartney has been a leader in high-pressure equipment design and manufacture for over fifty years. We recognize the need for specialized, close-tolerance machining and have developed equipment and procedures to meet this demand. Our quality-oriented facility and skilled craftsmen provide you with practical design and ultra-precision manufacture.

Supplied materials go along with international and specific standards, such as European standard EN10204. McCartney does meet latest pressure and explosion safety standards, so PED and ATEX certifications are available for every McCartney product (where applicable).

McCartney's extensive experience in the LDPE industry is available to you. We welcome your inquiry for special problems you may have handling extreme pressures, whether you need a single part or complete system.



Trained and Certified Technicians
Worldwide Sales and Support Network
State-of-the-art Research and Development Center
ISO 9001:2000 Certification
PED/ATEX Approval and TSSA Certification
CSA and CE Certified
Highest Quality Products Made Using Most Advanced Processes
A Focus on Advancement of Our Customers



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See our website for more information about our local offices located in: England, France, Italy, Spain, Poland, Dubai, India, China, Korea

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McCartney™
Polyethylene Production Equipment

**Precision Extreme Pressure
LDPE Production Equipment**
Reliability since 1946