

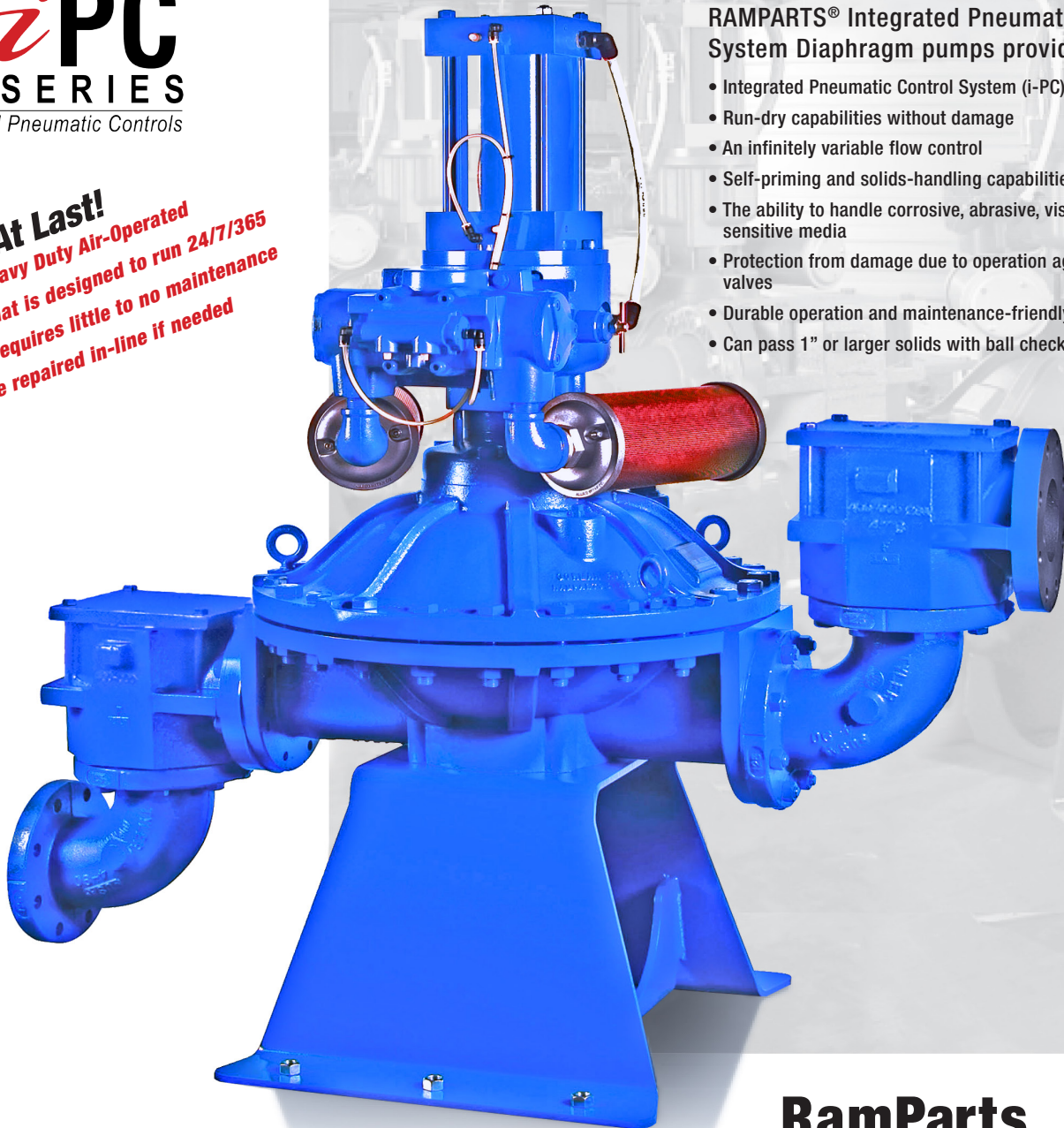
RamParts® Pumps



At Last!

**A Rugged, Heavy Duty Air-Operated
Diaphragm Pump that is designed to run 24/7/365
days a year, that requires little to no maintenance
and can be repaired in-line if needed**

HEAVY DUTY Air Driven Diaphragm Pump



RAMPARTS® Integrated Pneumatic Control (i-PC) System Diaphragm pumps provide

- Integrated Pneumatic Control System (i-PC)
- Run-dry capabilities without damage
- An infinitely variable flow control
- Self-priming and solids-handling capabilities
- The ability to handle corrosive, abrasive, viscous and shear sensitive media
- Protection from damage due to operation against closed valves
- Durable operation and maintenance-friendly components
- Can pass 1" or larger solids with ball check valves

RamParts®

Better Service | Better Quality | Better Prices

RAMPARTS® "PLUG & PLAY" i-PC™ SERIES

The air control system of an air driven diaphragm pump is an essential factor in pump performance. The Integrated Pneumatic Control System is constructed with durable, time-proven RamParts components for use in real-world applications. With its modular construction, it is both operator and maintenance friendly, allowing in-place service and/or field retrofit of either RamParts or competitors' pumps.

The RamParts i-PC system is designed for trouble-free operation at intermittent or continuous duties, as well as variations in temperature, air pressure or pump speed. The i-PC System design ensures a full displacement stroke every time, with no guesswork or special operator skills required. It also offers independent control of the suction and discharge strokes, allowing the pump to be 'tuned' to the application. These features make RamParts i-PC Air Driven Diaphragm pumps easier to apply and install, and more efficient to operate and maintain than conventional diaphragm pumps.



1. Diaphragm-Assist Air Cylinder

The horizontally mounted diaphragm is connected to the air cylinder to “pull” and “push” the pump through its reciprocating pumping action. This design prevents premature diaphragm failure by limiting the point-loading fatigue experienced by other designs.

2. Air Inlet Port

A large diameter free flowing port is provided with this model for the most efficient use of the compressed air supply. No other power source is required to run the pump.

3. RamParts ‘No-Stall’ Shifter Design

The proprietary RamParts ‘no-stall’ shifting mechanism is an essential component of the RAMPARTS ‘i-PC’ design, and allows for extended service life and consistent operation of the unit.

4. Dual Air Exhaust

Dual exhaust means less resistance exhausting the air from the pump, producing less differential pressure.

5. Suction Port (Liquid Inlet)

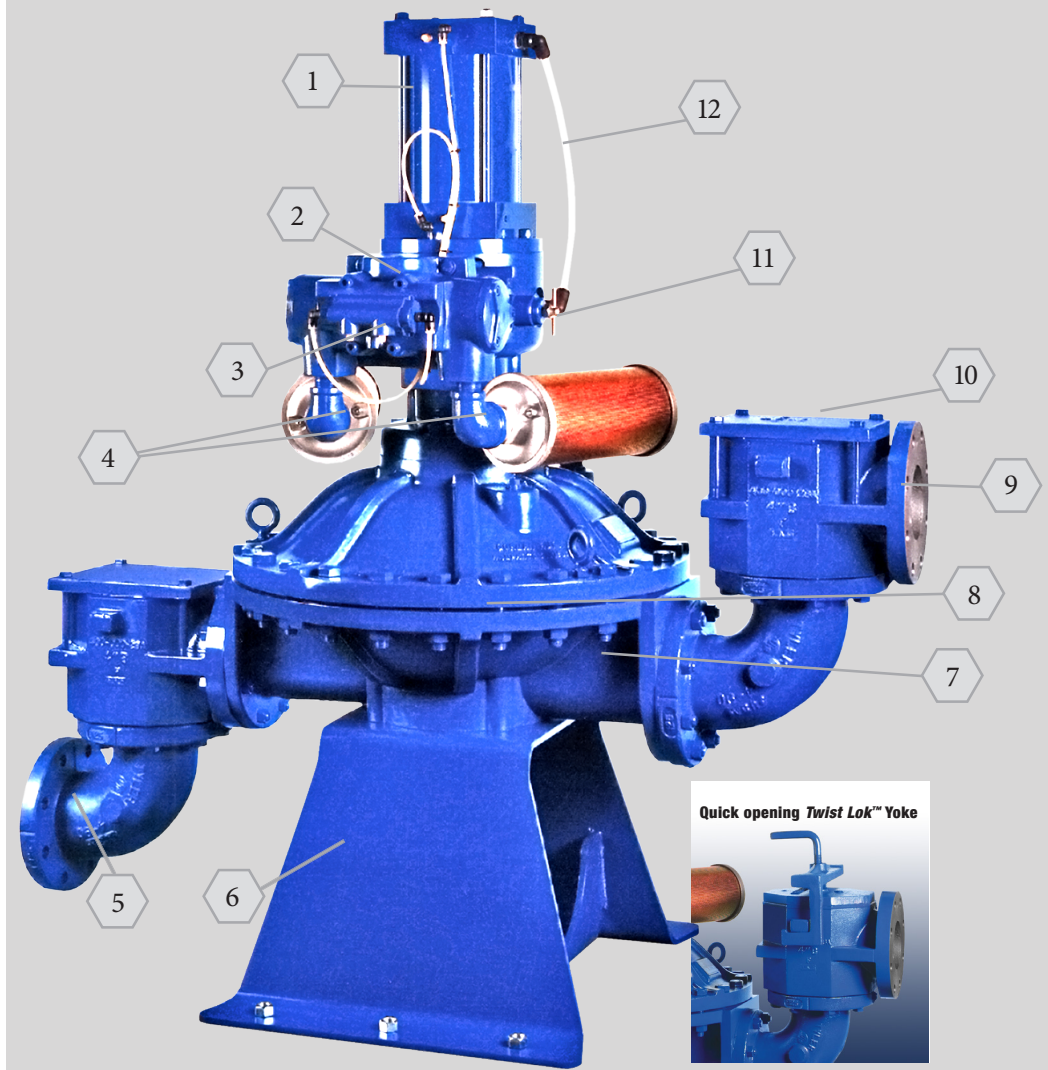
ANSI 125-lb flanged elbow for ease of installation of a Ramparts i-PC pump into most piping systems.

6. Free-standing Base

The Ramparts i-PC pump is supplied with a Free-Standing base which provides for solid anchoring and stable operation.

7. One-Piece Lower Pump Body

The Ramparts i-PC design includes a one-piece pump body that provides an unobstructed flow path of liquid through the pump.



8. Bolted Design

All gasketed or sealed joints on a Ramparts i-PC pump include a bolted configuration that provides a self-alignment and leak-proof assembly.

9. Discharge Port (Liquid Outlet)

ANSI 125-lb flanged elbow for ease of installation of a Ramparts i-PC pump into most piping systems.

10. Check Valve Assemblies

The Ramparts i-PC is designed with 90° ball check valves. Each check valve includes an access cover for external inspection or service of the valve using simple hand tools. Quick opening assemblies are also available.

11. Integrated Speed Control

Ramparts i-PC design features an integrated speed control which provides for manual speed control of both the suction and discharge strokes. This manual control is achieved by increasing or decreasing the compressed air pressure delivered to the pump. This control allows the user to only use the compressed air required for efficient pump operation.

12. Air Equalizer Tube

The Air Equalizer Tube feature provides the most energy possible to the diaphragm while utilizing the least amount of compressed air. This feature also prevents environmental contaminants from entering the air cylinder.

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