



# Air-Operated Piston Pumps

## Standard design

Available in four different series

## PA Hygienic series

Wetted parts in mirror finish AISI 304 or 316 stainless steel in both, short or long versions. Pump components are assembled with quick-release clamps for quick and easy strip cleaning.

Connections: DIN - SMS - IDF - BS / RJT - DS - CLAMP.

## PA Industrial series

Wetted parts in AISI 304 or 316 stainless steel. Short or long versions. Pump components are screwed together.

Connections: GAS thread/BSP.

## PAR Light duty industrial series

Wetted parts stainless steel in AISI 304, 316 or galvanized steel. Pump components are screwed together. Very cost effective. Connections: GAS thread/BSP.

## PA.AP High pressure industrial series

Wetted parts in AISI 304 stainless steel, with material thicknesses to suit the high pressure capabilities of these pumps..

Pump components screwed together or secured by flanges and tie rods.

Connections: GAS thread/BSP.

## Elastomers (certified to FDA):

Nitrile NBR

Fluorocarbon (Viton)

P.T.F.E. (FEP)

Algoflon

## Applications

Air-operated piston pumps are available in various versions, depending on the constructional features, materials and the applications for which they are to be used. They have been designed to meet the widest variety of requirements, from pumping simple products to extremely high viscosities. Including drum emptying, transfer, feed, conveying and spraying applications, especially where an easily adjustable flow rate is required. Pressures from 0 to 150 bar and flow rates from 1 to 80 l/min.

Thanks to the compressed driven air motor they are also suited for environments with potentially explosive atmospheres and in compliance with ATEX directives.



PA.A long pump



PA.A short pump



PAR short pump



PA.AP pump

## PERFORMANCE

### PA HYGIENIC SERIES

| PUMPS           | Pressure ratio | Recomm. max. cycles per minute | Max. flow rate l/min for viscosity of 1000 cP |
|-----------------|----------------|--------------------------------|-----------------------------------------------|
| PA 20 A- 45     | 25 : 1         | 150                            | 1                                             |
| * PA 30 A- 45   | 5 : 1          | 150                            | 2                                             |
| * PA 50 AM- 63  | 3,4 : 1        | 120                            | 7,6                                           |
| * PA 50 AM- 80  | 5,3 : 1        | 90                             | 10                                            |
| * PA 50 AM-100  | 8,4 : 1        | 60                             | 7,5                                           |
| PA 50 AM-130    | 14,6 : 1       | 50                             | 10,6                                          |
| PA 50 AM-150    | 20 : 1         | 50                             | 6,2                                           |
| * PA 65 AM- 80  | 1,6 : 1        | 80                             | 20                                            |
| * PA 65 AM-100  | 2,5 : 1        | 60                             | 17                                            |
| * PA 65 AM-130  | 4 : 1          | 50                             | 24                                            |
| PA 65 AM-150    | 6 : 1          | 50                             | 14                                            |
| * PA 80 AM-100  | 2 : 1          | 60                             | 24                                            |
| * PA 80 AM-130  | 3,3 : 1        | 50                             | 33                                            |
| * PA 80 AM-150  | 4,5 : 1        | 50                             | 20                                            |
| PA 80 AM-210    | 9 : 1          | 50                             | 32                                            |
| * PA 100 AM-100 | 1 : 1          | 60                             | 37                                            |
| * PA 100 AM-130 | 1,8 : 1        | 50                             | 52                                            |
| * PA 100 AM-155 | 2,5 : 1        | 50                             | 52                                            |
| * PA 100 AM-210 | 5 : 1          | 50                             | 50                                            |
| * PA 140 A-130  | 1,6 : 1        | 50                             | 100                                           |
| * PA 140 A-155  | 2,2 : 1        | 50                             | 100                                           |
| * PA 140 A-210  | 4 : 1          | 50                             | 95                                            |

\* Available with ATEX 2G and 3G certification

### PA INDUSTRIAL SERIES

| PUMPS         | Pressure ratio | Recomm. max. cycles per minute | Max. flow rate l/min for viscosity of 1000 cP |
|---------------|----------------|--------------------------------|-----------------------------------------------|
| * PA 40 I- 63 | 5,5 : 1        | 120                            | 4,8                                           |
| * PA 40 I- 80 | 8,8 : 1        | 90                             | 6,4                                           |
| * PA 40 I-100 | 14 : 1         | 60                             | 4,7                                           |
| PA 40 I-130   | 24,4 : 1       | 50                             | 6,7                                           |
| PA 40 I-150   | 33,2 : 1       | 50                             | 4                                             |
| * PA 50 I- 63 | 2,5 : 1        | 120                            | 9                                             |
| * PA 50 I- 80 | 4 : 1          | 90                             | 12                                            |
| * PA 50 I-100 | 6 : 1          | 60                             | 8,8                                           |
| PA 50 I-130   | 11 : 1         | 50                             | 12,5                                          |
| PA 50 I-150   | 15 : 1         | 50                             | 7,4                                           |
| * PA 65 I- 80 | 1,6 : 1        | 80                             | 20                                            |
| * PA 65 I-100 | 2,5 : 1        | 60                             | 17                                            |
| * PA 65 I-130 | 4 : 1          | 50                             | 24                                            |
| PA 65 I-150   | 6 : 1          | 50                             | 14                                            |
| * PA 80 I-100 | 2 : 1          | 60                             | 24                                            |
| * PA 80 I-130 | 3,3 : 1        | 50                             | 33                                            |
| * PA 80 I-150 | 4,5 : 1        | 50                             | 20                                            |
| PA 80 I-210   | 9 : 1          | 50                             | 32                                            |

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### PA.AP HIGH PRESSURE SERIES

| PUMPS         | Pressure ratio | Recomm. max. cycles per minute | Max. flow rate l/min for viscosity of 1000 cP |
|---------------|----------------|--------------------------------|-----------------------------------------------|
| PA 30AP - 63  | 10 : 1         | 80                             | 1,6                                           |
| PA 30AP - 80  | 16 : 1         | 60                             | 2                                             |
| PA 30AP - 100 | 25 : 1         | 50                             | 2                                             |
| PA 30AP - 135 | 44 : 1         | 50                             | 2                                             |
| PA 30AP - 150 | 61 : 1         | 40                             | 1,6                                           |
| PA 40AP - 63  | 5,6 : 1        | 80                             | 3                                             |
| PA 40AP - 80  | 8,8 : 1        | 60                             | 4                                             |
| PA 40AP - 100 | 14 : 1         | 50                             | 3,7                                           |
| PA 40AP - 135 | 24 : 1         | 50                             | 3,7                                           |
| PA 40AP - 150 | 33 : 1         | 40                             | 3                                             |
| PA 50AP - 100 | 7,5 : 1        | 50                             | 7                                             |
| PA 50AP - 135 | 13 : 1         | 50                             | 7                                             |
| PA 50AP - 150 | 18 : 1         | 40                             | 5,6                                           |
| PA 50AP - 210 | 34 : 1         | 30                             | 6,7                                           |
| PA 65AP - 130 | 7 : 1          | 50                             | 13                                            |
| PA 65AP - 150 | 9,4 : 1        | 40                             | 10,5                                          |
| PA 65AP - 210 | 18 : 1         | 30                             | 12,7                                          |

### PAR SERIES

| PUMPS       | Pressure ratio | Recomm. max. cycles per minute | Max. flow rate l/min for viscosity of 1000 cP |
|-------------|----------------|--------------------------------|-----------------------------------------------|
| PAR 30 - 50 | 4 : 1          | 180                            | 7,5                                           |
| PAR 40 - 50 | 2 : 1          | 180                            | 12                                            |
| PAR 50 - 50 | 1 : 1          | 180                            | 25                                            |
| PAR 50 - 65 | 2 : 1          | 160                            | 25                                            |
| PAR 65 - 50 | 0,7 : 1        | 160                            | 55                                            |
| PAR 65 - 65 | 0,7 : 1        | 160                            | 55                                            |

## ACCESSORIES



2" threaded clamp for drums



Light clamp with threaded connection



Double clamp



Wall brackets for holding and fixing pumps



Outlet Pulsation Dampener

## VARIOUS OPTIONS

Air-operated piston pump with mobile hoist.



Manual sliding lift model with counterweight assistance.



With pneumatic cylinder and control panel.

Short air-operated piston pump on tripod with wheels.



Short air-operated piston pump with scraper plate to empty barrels or cylindrical tanks. Excellent for high viscosity products.



Unit with double pneumatic pistons for large pans and vessels of viscous product, including an air operated piston pump and scraper plate. For mixtures, jams, creams etc... to be transferred after processing.



Air-operated piston pumps applications.

- Emptying of standard or special barrels
- With immersed pump
- With scraping plate



**C.S.F. Inox S.p.A.** Strada per Bibbiano, 7 - 42027 Montecchio E. (RE) - ITALY EU  
Ph +39.0522.869911 - ra. - Fx +39.0522.865454 / 866758 - csfitalia@csf.it - www.csf.it

**Export Department • Commercial Étranger • Comercial Extranjero**  
Ph +39.0522.869922 - Fx +39.0522.869841 - csfexport@csf.it - www.csf.it

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