



AIR OPERATED DIAPHRAGM PUMPS

JESSBERGER®
pumps and systems



ADVANTAGES

- Pumping of aggressive and flammable substances, viscous liquids also with solids and media containing gas.
- Especially suitable for use in hazardous areas. Standard version for Ex-zone 2, special version for Ex-zone 1.
- Reliability even at high humidity.
- Adjustable flow rate and head via air pressure.
- Dry-running without any problems.
- Operation with non lubricated air needed.
- Dry self-priming.
- Several suction and delivery connections.
- Manifold can be separated. Therefore two different media can be pumped at the same time.
- Easy replacement of spare parts and maintenance by your internal service department.

JP-810

Air operated diaphragm pumps

Materials:

PP, PVDF, ALUMINIUM, SS 316, POMc

Flow rate 8 l/min to 1.050 l/min

Connections 1/4" to 3"



Standard: JP-810

II 3/3 G Ex h IIB T4 Gb (Ex-Zone 2)

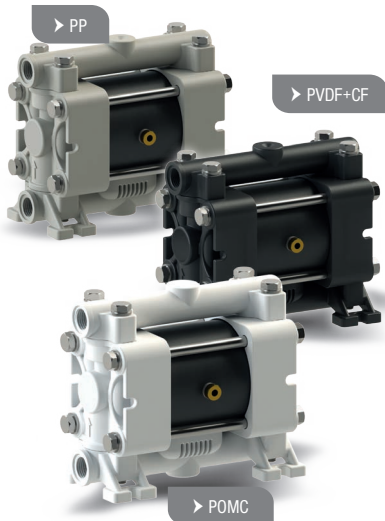
II 3 D Ex h IIB T 135°C Db X (Ex-Zone 2)

Conductive: JP-810

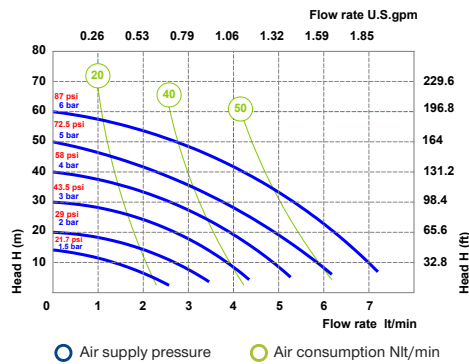
II 2/2 G Ex h IIB T4 Gb (Ex-Zone 1)

II 2 D Ex h IIB T 135°C Db X (Ex-Zone 1)

JP-810.8 1/4", 7 l/min



PERFORMANCE CURVE



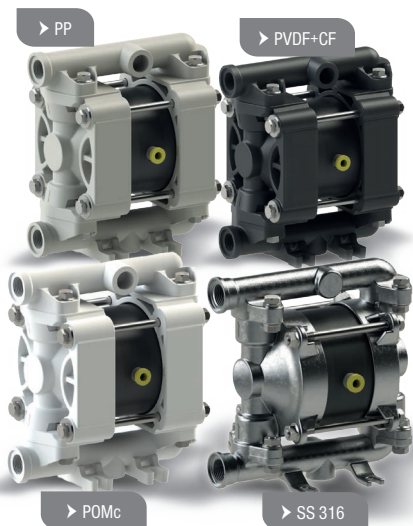
The curves and performance values refer to pumps with submerged suction and a free delivery outlet with water at 20°C, and vary according to the construction material.

TECHNICAL DATA

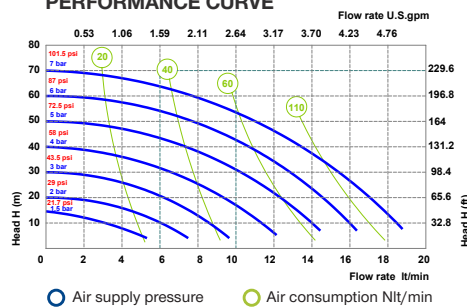
Fluid connection: 1/4" BSP
 Air connection: 4 mm
 Flow rate: 7 l/min
 Air pressure: 6 bar
 Delivery Head: 60 m
 Suction Lift Dry: 3 m
 Suction Lift Wet: 9,8 m
 Solid passing: 2 mm
 Noise level: 62 dB
 Viscosity: 5.000 mPas
 Stroke volume: 18 cm³
 Materials: PP/PVDF+CF/POMc

All values are maximum data.

JP-810.20 3/8", 20 l/min



PERFORMANCE CURVE



The curves and performance values refer to pumps with submerged suction and a free delivery outlet with water at 20°C, and vary according to the construction material.

TECHNICAL DATA

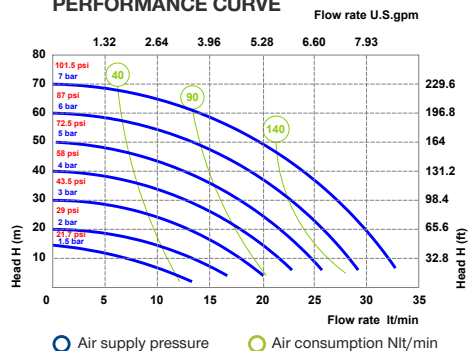
Fluid connection: 3/8" BSP
 Air connection: 6 mm
 Flow rate: 20 l/min
 Air pressure: 7 bar
 Delivery Head: 70 m
 Suction Lift Dry: 5 m
 Suction Lift Wet: 9,8 m
 Solid passing: 2,5 mm
 Noise level: 65 dB
 Viscosity: 10.000 mPas
 Stroke volume: 30 cm³
 Materials: PP/PVDF+CF/POMc/SS 316

All values are maximum data.

JP-810.35 1/2", 35 l/min



PERFORMANCE CURVE



The curves and performance values refer to pumps with submerged suction and a free delivery outlet with water at 20°C, and vary according to the construction material.

TECHNICAL DATA

Fluid connection: 1/2" BSP
 Air connection: 6 mm
 Flow rate: 35 l/min
 Air pressure: 7 bar
 Delivery Head: 70 m
 Suction Lift Dry: 5 m
 Suction Lift Wet: 9,8 m
 Solid passing: 3 mm
 Noise level: 65 dB
 Viscosity: 15.000 mPas
 Stroke volume: 65 cm³
 Materials: PP/PVDF+CF/Alu/SS 316

All values are maximum data.

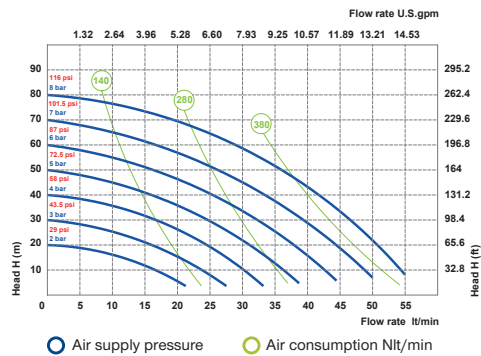
JP-810.56 1/2", 55 l/min

TECHNICAL DATA

Fluid connection: 1/2" BSP
 Air connection: 1/4" BSP
 Flow rate: 55 l/min
 Air pressure: 8 bar
 Delivery Head: 80 m
 Suction Lift Dry: 5 m
 Suction Lift Wet: 9,8 m
 Solid passing: 3,5 mm
 Noise level: 70 dB
 Viscosity: 20.000 mPas
 Stroke volume: 140 cm³
 Materials: PP/PVDF+CF/
 Alu/SS 316

All values are maximum data.

PERFORMANCE CURVE



The curves and performance values refer to pumps with submerged suction and a free delivery outlet with water at 20°C, and vary according to the construction material.



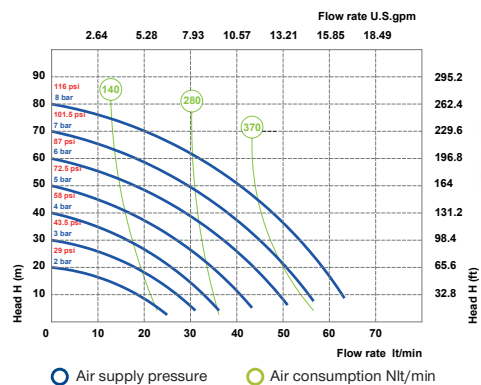
JP-810.60 1/2", 65 l/min

TECHNICAL DATA

Fluid connection: 1/2" BSP
 Air connection: 1/4" BSP
 Flow rate: 65 l/min
 Air pressure: 8 bar
 Delivery Head: 80 m
 Suction Lift Dry: 5 m
 Suction Lift Wet: 9,8 m
 Solid passing: 3,5 mm
 Noise level: 72 dB
 Viscosity: 20.000 mPas
 Stroke volume: 140 cm³
 Materials: PP/PVDF+CF/
 Alu/SS 316

All values are maximum data.

PERFORMANCE CURVE



The curves and performance values refer to pumps with submerged suction and a free delivery outlet with water at 20°C, and vary according to the construction material.



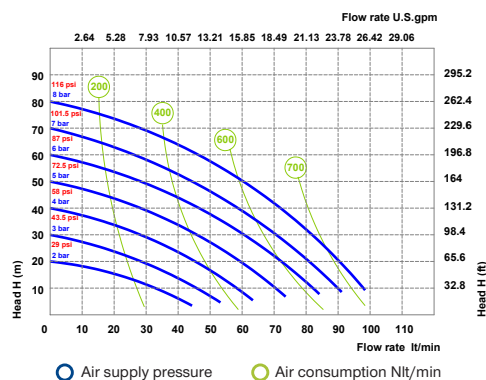
JP-810.90 3/4", 100 l/min

TECHNICAL DATA

Fluid connection: 3/4" BSP
 Air connection: 3/8" BSP
 Flow rate: 100 l/min
 Air pressure: 8 bar
 Delivery Head: 80 m
 Suction Lift Dry: 5 m
 Suction Lift Wet: 9,8 m
 Solid passing: 4 mm
 Noise level: 72 dB
 Viscosity: 15.000 mPas
 Stroke volume: 140 cm³
 Materials: PP/PVDF+CF

All values are maximum data.

PERFORMANCE CURVE



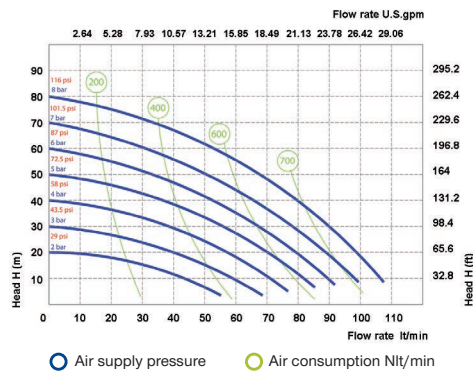
The curves and performance values refer to pumps with submerged suction and a free delivery outlet with water at 20°C, and vary according to the construction material.



JP-810.110 3/4", 110 l/min



PERFORMANCE CURVE



The curves and performance values refer to pumps with submerged suction and a free delivery outlet with water at 20°C, and vary according to the construction material.

TECHNICAL DATA

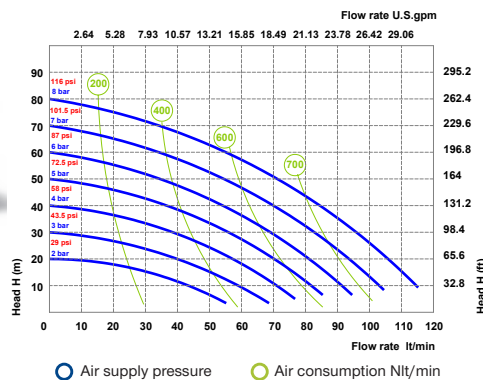
Fluid connection: 3/4" BSP
 Air connection: 3/8" BSP
 Flow rate: 110 l/min
 Air pressure: 8 bar
 Delivery Head: 80 m
 Suction Lift Dry: 5 m
 Suction Lift Wet: 9,8 m
 Solid passing: 4 mm
 Noise level: 72 dB
 Viscosity: 15.000 mPas
 Stroke volume: 140 cm³
 Materials: Aluminium

All values are maximum data.

JP-810.120 1", 120 l/min



PERFORMANCE CURVE



The curves and performance values refer to pumps with submerged suction and a free delivery outlet with water at 20°C, and vary according to the construction material.

TECHNICAL DATA

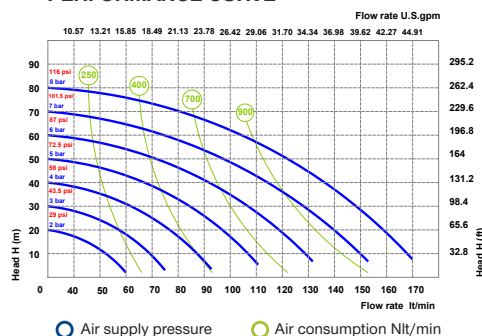
Fluid connection: 1" BSP
 Air connection: 3/8" BSP
 Flow rate: 120 l/min
 Air pressure: 8 bar
 Delivery Head: 80 m
 Suction Lift Dry: 5 m
 Suction Lift Wet: 9,8 m
 Solid passing: 4 mm
 Noise level: 72 dB
 Viscosity: 25.000 mPas
 Stroke volume: 200 cm³
 Materials: PP/PVDF+CF/SS 316

All values are maximum data.

JP-810.170 1", 170 l/min



PERFORMANCE CURVE



The curves and performance values refer to pumps with submerged suction and a free delivery outlet with water at 20°C, and vary according to the construction material.

TECHNICAL DATA

Fluid connection: 1" BSP
 Air connection: 1/2" BSP
 Flow rate: 170 l/min
 Air pressure: 8 bar
 Delivery Head: 80 m
 Suction Lift Dry: 5 m
 Suction Lift Wet: 9,8 m
 Solid passing: 7,5 mm
 Noise level: 75 dB
 Viscosity: 35.000 mPas
 Stroke volume: 700 cm³
 Materials: Alu/SS 316

All values are maximum data.

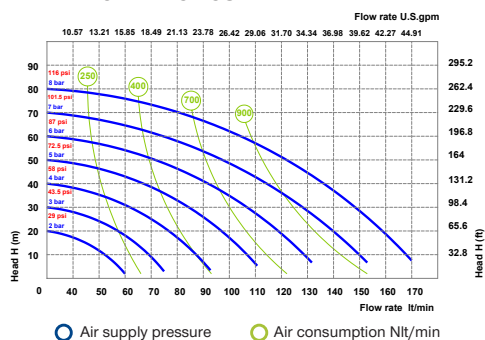
JP-810.171 1", 170 l/min

TECHNICAL DATA

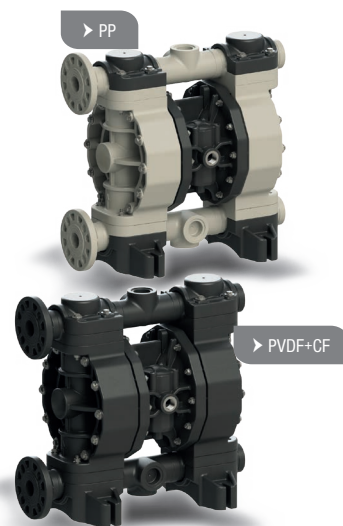
Fluid connection: 1" BSP - DN25
 Air connection: 1/2" BSP
 Flow rate: 170 l/min
 Air pressure: 8 bar
 Delivery Head: 80 m
 Suction Lift Dry: 5 m
 Suction Lift Wet: 9,8 m
 Solid passing: 7,5 mm
 Noise level: 75 dB
 Viscosity: 35.000 mPas
 Stroke volume: 700 cm³
 Materials: PP/PVDF+CF

All values are maximum data.

PERFORMANCE CURVE



The curves and performance values refer to pumps with submerged suction and a free delivery outlet with water at 20°C, and vary according to the construction material.



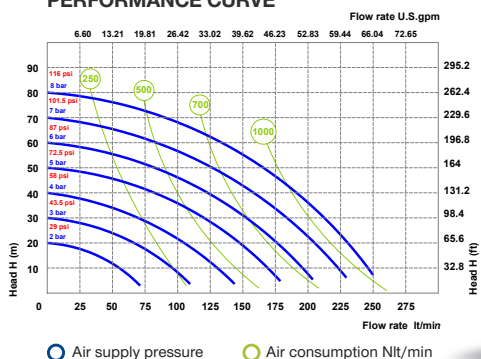
JP-810.252 PP+GF / 250^{ALU} 1 1/4", 250 l/min PVDF+CF / SS 316

TECHNICAL DATA

Fluid connection: 1 1/4" BSP
 Air connection: 1/2" BSP
 Flow rate: 250 l/min
 Air pressure: 8 bar
 Delivery Head: 80 m
 Suction Lift Dry: 5 m
 Suction Lift Wet: 9,8 m
 Solid passing: 7,5 mm
 Noise level: 75 dB
 Viscosity: 35.000 mPas
 Stroke volume: 700 cm³
 Materials: PP+GF/PVDF+CF/
 Alu/SS 316

All values are maximum data.

PERFORMANCE CURVE



The curves and performance values refer to pumps with submerged suction and a free delivery outlet with water at 20°C, and vary according to the construction material.



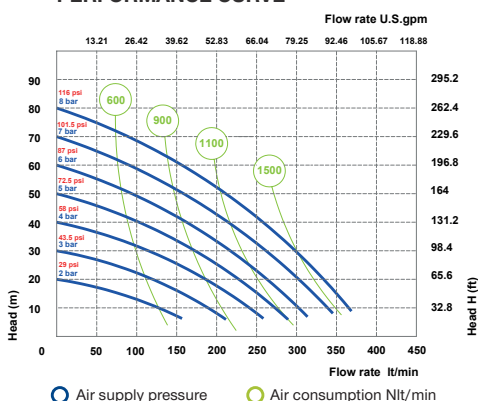
JP-810.400 1 1/2", 380 l/min

TECHNICAL DATA

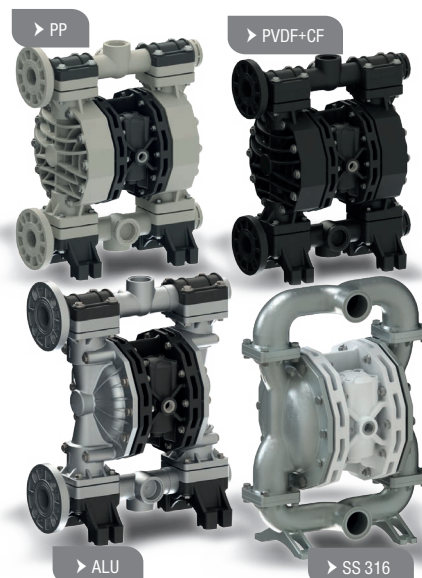
Fluid connection: 1 1/2" BSP - DN40
 Air connection: 1/2" BSP
 Flow rate: 380 l/min
 Air pressure: 8 bar
 Delivery Head: 80 m
 Suction Lift Dry: 5 m
 Suction Lift Wet: 9,8 m
 Solid passing: 8 mm
 Noise level: 78 dB
 Viscosity: 40.000 mPas
 Stroke volume: 1.200 cm³
 Materials: PP/PVDF+CF/
 Alu/SS 316

All values are maximum data.

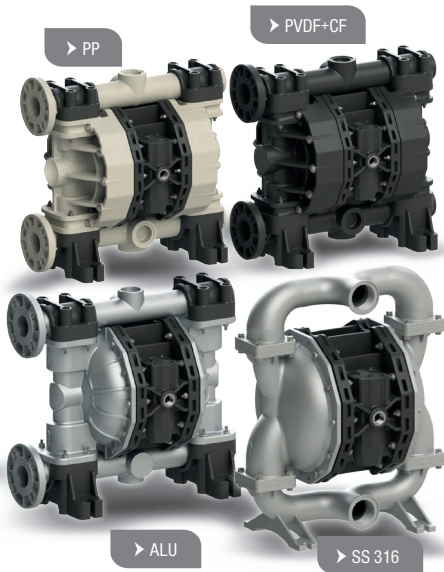
PERFORMANCE CURVE



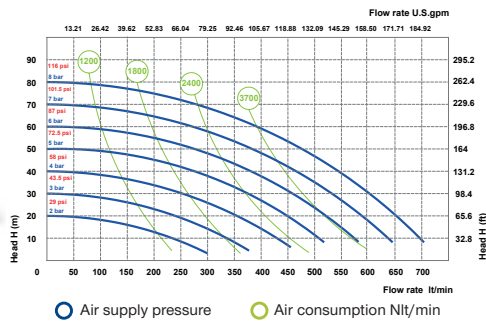
The curves and performance values refer to pumps with submerged suction and a free delivery outlet with water at 20°C, and vary according to the construction material.



JP-810.700 2", 700 l/min



PERFORMANCE CURVE



The curves and performance values refer to pumps with submerged suction and a free delivery outlet with water at 20°C, and vary according to the construction material.

TECHNICAL DATA

Fluid connection: 2" BSP - DN50
 Air connection: 3/4" BSP
 Flow rate: 700 l/min
 Air pressure: 8 bar
 Delivery Head: 80 m
 Suction Lift Dry: 5 m
 Suction Lift Wet: 9,8 m
 Solid passing: 8,5 mm
 Noise level: 78 dB
 Viscosity: 50.000 mPas
 Stroke volume: 3.050 cm³
 Materials: PP/PVDF+CF/
 Alu/SS 316

All values are maximum data.

JP-810.1050 3", 1050 l/min

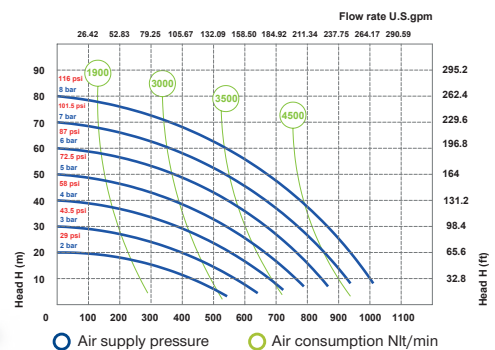


TECHNICAL DATA

Fluid connection: 3" BSP - DN80
 Air connection: 3/4" BSP
 Flow rate: 1.050 l/min
 Air pressure: 8 bar
 Delivery Head: 80 m
 Suction Lift Dry: 5 m
 Suction Lift Wet: 9,8 m
 Solid passing: 12 mm
 Noise level: 82 dB
 Viscosity: 55.000 mPas
 Stroke volume: 9.750 cm³
 Materials: PP/PVDF+CF/
 Alu/SS 316

All values are maximum data.

PERFORMANCE CURVE



The curves and performance values refer to pumps with submerged suction and a free delivery outlet with water at 20°C, and vary according to the construction material.



Standard: JP-810
II 3/3 G Ex h IIB T4 Gb (Ex-Zone 2)
II 3 D Ex h IIB T 135°C Db X (Ex-Zone 2)
Conductive: JP-810
II 2/2 G Ex h IIB T4 Gb (Ex-Zone 1)
II 2 D Ex h IIB T 135°C Db X (Ex-Zone 1)

JP-810 FOOD

FOR FOOD INDUSTRY

Air operated diaphragm pumps

Materials:

Electro-polished Stainless Steel SS 316 and pure PTFE

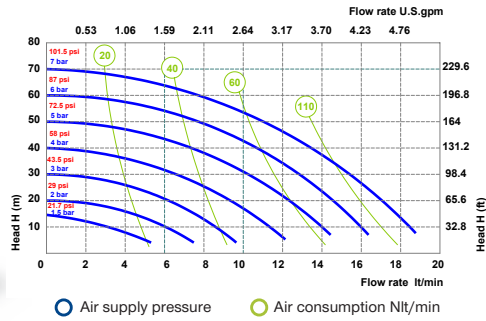
Flow rate 20 l/min up to 1.050 l/min.

Tri-clamp connections (hose connection for Tri-Clamp are available as an option)





PERFORMANCE CURVE



The curves and performance values refer to pumps with submerged suction and a free delivery outlet with water at 20°C, and vary according to the construction material.

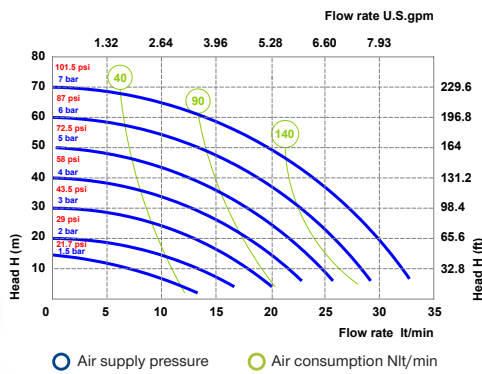
TECHNICAL DATA

- Fluid connection: Tri-Clamp 3/4"
- Air connection: 6 mm
- Flow rate: 20 l/min
- Air pressure: 7 bar
- Delivery Head: 70 m
- Suction Lift Dry: 5 m
- Suction Lift Wet: 9,8 m
- Solid passing: 2,5 mm
- Noise level: 65 dB
- Viscosity: 10.000 mPas
- Stroke volume: 30 cm³
- Material: Stainless Steel electro-polished

All values are maximum data.



PERFORMANCE CURVE



The curves and performance values refer to pumps with submerged suction and a free delivery outlet with water at 20°C, and vary according to the construction material.

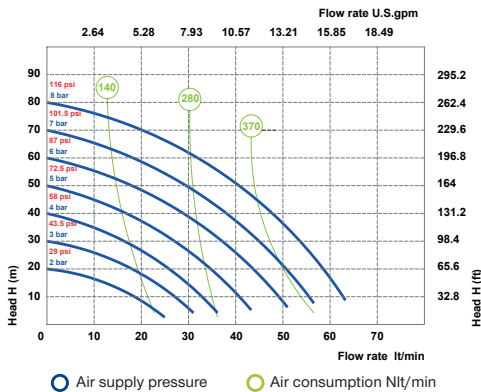
TECHNICAL DATA

- Fluid connection: Tri-Clamp 1"
- Air connection: 6 mm
- Flow rate: 35 l/min
- Air pressure: 7 bar
- Delivery Head: 70 m
- Suction Lift Dry: 5 m
- Suction Lift Wet: 9,8 m
- Solid passing: 3 mm
- Noise level: 65 dB
- Viscosity: 15.000 mPas
- Stroke volume: 65 cm³
- Material: Stainless Steel electro-polished

All values are maximum data.



PERFORMANCE CURVE

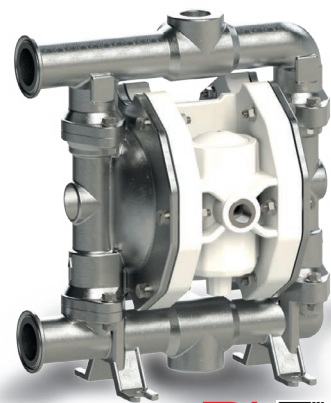


The curves and performance values refer to pumps with submerged suction and a free delivery outlet with water at 20°C, and vary according to the construction material.

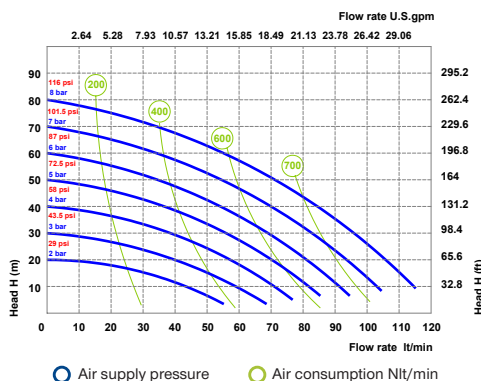
TECHNICAL DATA

- Fluid connection: Tri-Clamp 1"
- Air connection: 1/4" BSP
- Flow rate: 65 l/min
- Air pressure: 8 bar
- Delivery Head: 80 m
- Suction Lift Dry: 5 m
- Suction Lift Wet: 9,8 m
- Solid passing: 3,5 mm
- Noise level: 72 dB
- Viscosity: 20.000 mPas
- Stroke volume: 140 cm³
- Material: Stainless Steel electro-polished

All values are maximum data.



PERFORMANCE CURVE



The curves and performance values refer to pumps with submerged suction and a free delivery outlet with water at 20°C, and vary according to the construction material.

TECHNICAL DATA

- Fluid connection: Tri-Clamp 1 1/2"
- Air connection: 3/8" BSP
- Flow rate: 120 l/min
- Air pressure: 8 bar
- Delivery Head: 80 m
- Suction Lift Dry: 5 m
- Suction Lift Wet: 9,8 m
- Solid passing: 4 mm
- Noise level: 72 dB
- Viscosity: 25.000 mPas
- Stroke volume: 200 cm³
- Material: Stainless Steel electro-polished

All values are maximum data.

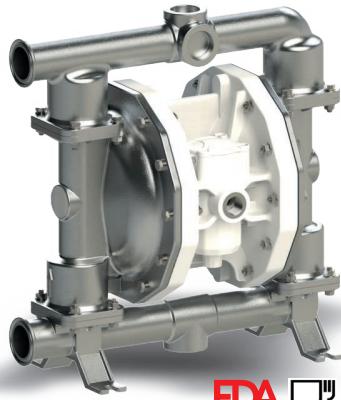
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JP-810.20 3/4", 20 l/min

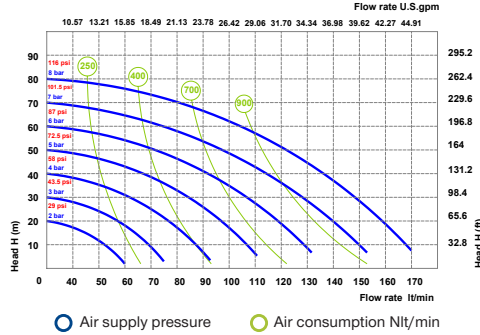
JP-810.35 1", 35 l/min

JP-810.60 1", 65 l/min

JP-810.120 1 1/2", 120 l/min



PERFORMANCE CURVE



The curves and performance values refer to pumps with submerged suction and a free delivery outlet with water at 20°C, and vary according to the construction material.

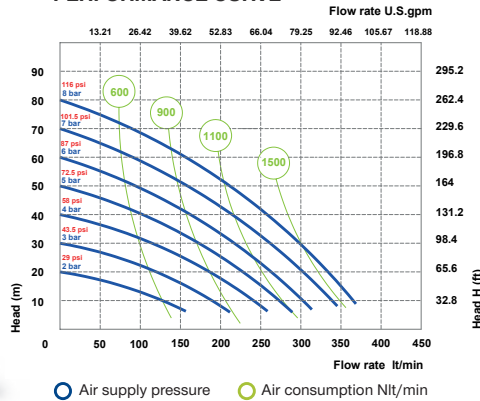
TECHNICAL DATA

- Fluid connection: Tri-Clamp 1½"
- Air connection: 1/2" BSP
- Flow rate: 170 l/min
- Air pressure: 8 bar
- Delivery Head: 80 m
- Suction Lift Dry: 5 m
- Suction Lift Wet: 9,8 m
- Solid passing: 7,5 mm
- Noise level: 75 dB
- Viscosity: 35.000 mPas
- Stroke volume: 700 cm³
- Material: Stainless Steel electro-polished

All values are maximum data.



PERFORMANCE CURVE



The curves and performance values refer to pumps with submerged suction and a free delivery outlet with water at 20°C, and vary according to the construction material.

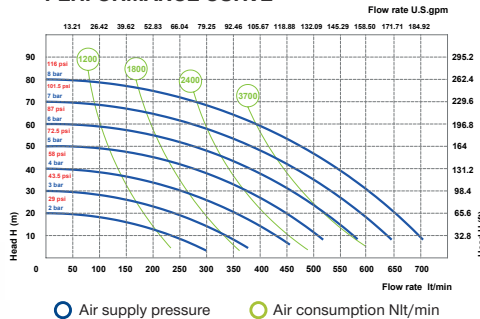
TECHNICAL DATA

- Fluid connection: Tri-Clamp 2"
- Air connection: 1/2" BSP
- Flow rate: 380 l/min
- Air pressure: 8 bar
- Delivery Head: 80 m
- Suction Lift Dry: 5 m
- Suction Lift Wet: 9,8 m
- Solid passing: 8 mm
- Noise level: 78 dB
- Viscosity: 40.000 mPas
- Stroke volume: 1.200 cm³
- Material: Stainless Steel electro-polished

All values are maximum data.



PERFORMANCE CURVE



The curves and performance values refer to pumps with submerged suction and a free delivery outlet with water at 20°C, and vary according to the construction material.

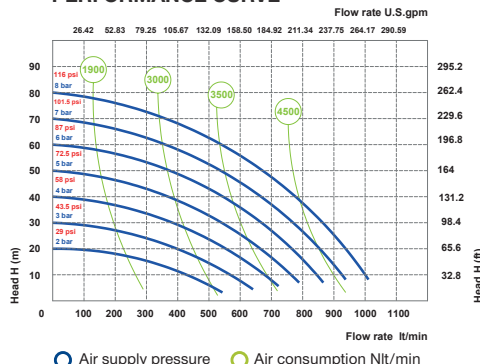
TECHNICAL DATA

- Fluid connection: Tri-Clamp 2½"
- Air connection: 3/4" BSP
- Flow rate: 700 l/min
- Air pressure: 8 bar
- Delivery Head: 80 m
- Suction Lift Dry: 5 m
- Suction Lift Wet: 9,8 m
- Solid passing: 8,5 mm
- Noise level: 78 dB
- Viscosity: 50.000 mPas
- Stroke volume: 3.050 cm³
- Material: Stainless Steel electro-polished

All values are maximum data.



PERFORMANCE CURVE



The curves and performance values refer to pumps with submerged suction and a free delivery outlet with water at 20°C, and vary according to the construction material.

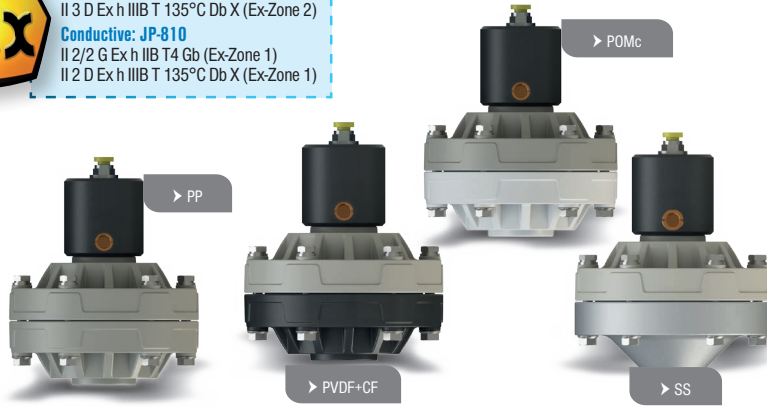
TECHNICAL DATA

- Fluid connection: Tri-Clamp 3"
- Air connection: 3/4" BSP
- Flow rate: 1.050 l/min
- Air pressure: 8 bar
- Delivery Head: 80 m
- Suction Lift Dry: 5 m
- Suction Lift Wet: 9,8 m
- Solid passing: 12 mm
- Noise level: 82 dB
- Viscosity: 55.000 mPas
- Stroke volume: 9.750 cm³
- Material: Stainless Steel electro-polished

All values are maximum data.



Standard: JP-810
 II 3/3 G Ex h IIB T4 Gb (Ex-Zone 2)
 II 3 D Ex h IIB T 135°C Db X (Ex-Zone 2)
Conductive: JP-810
 II 2/2 G Ex h IIB T4 Gb (Ex-Zone 1)
 II 2 D Ex h IIB T 135°C Db X (Ex-Zone 1)



DP-20 3/4", 8 BAR

FOR: JP-810.8, -20, -35

TECHNICAL DATA

Connection medium: 3/4"
 Air connection: 6 mm
 Max. operating pressure: 8 bar



DP-25 1", 8 BAR

FOR: JP-810.55, -60, -90, -110, -120

TECHNICAL DATA

Connection medium: 1"
 Air connection: 8 mm
 Max. operating pressure: 8 bar

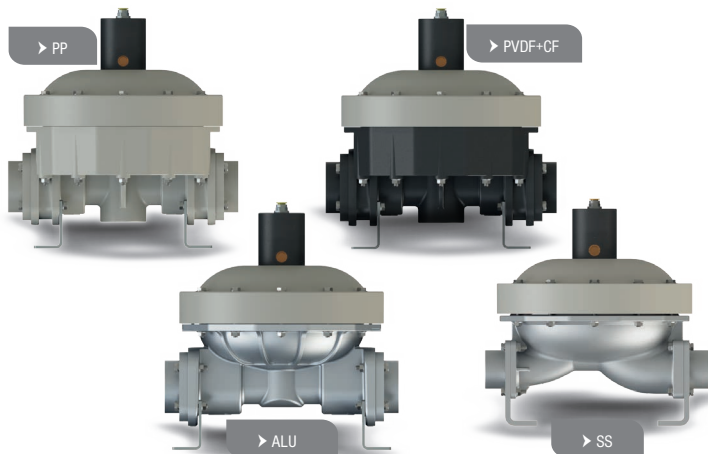


DP-40 1 1/2", 8 BAR

FOR: JP-810.170, -252, -400

TECHNICAL DATA

Connection medium: 1 1/2"
 Air connection: 10 mm
 Max. operating pressure: 8 bar



DP-50 2", 8 BAR

FOR: JP-810.700, -1050

TECHNICAL DATA

Connection medium: 2"
 Air connection: 12 mm
 Max. operating pressure: 8 bar



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