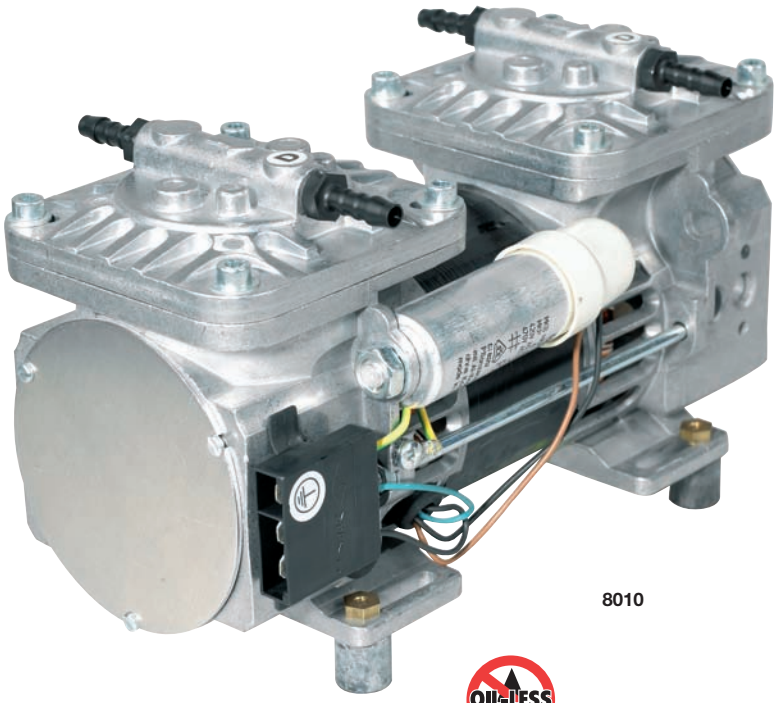
Diaphragm Pumps

MODELS

8010
8015



8010

OIL-LESS

FEATURES

- Oil-less
- Maintenance free
- Long life
- Low vibration
- High performance
- Large choice in materials

TYPICAL APPLICATIONS

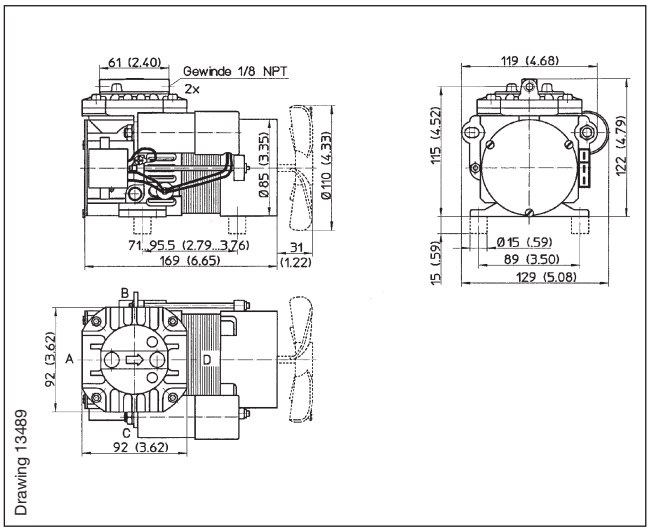
- Medical devices
- Surgical suction devices
- Respirators
- Environmental
- Reproductive machines

TÜV SÜD ISO 9001

THOMAS
by Gardner Denver

Diaphragm Pump 8010 AC

Flow	**28,0 l/min**
Max. pressure	**3,0 bar**
Max. vacuum	**78%**



Pneumatic Data

Description		8010VD/25/AVN/AC	8010D/25/AVN/AC	8010V/25/AVN/AC
Part number	115 V/60 Hz	80100035*		
	230 V/50 Hz		80101004	80101008
Max. flow		28,0 l/min	23,0 l/min	23,0 l/min
Max. pressure		3,0 bar	2,8 bar	
Max. continuous pressure		1,0 bar	1,0 bar	
Max. restart pressure		Ambient pressure	2,8 bar	
Max. vacuum		78%		78%
Max. continuous vacuum		78%		78%
Max. restart vacuum		Ambient pressure		78%

Electrical Data

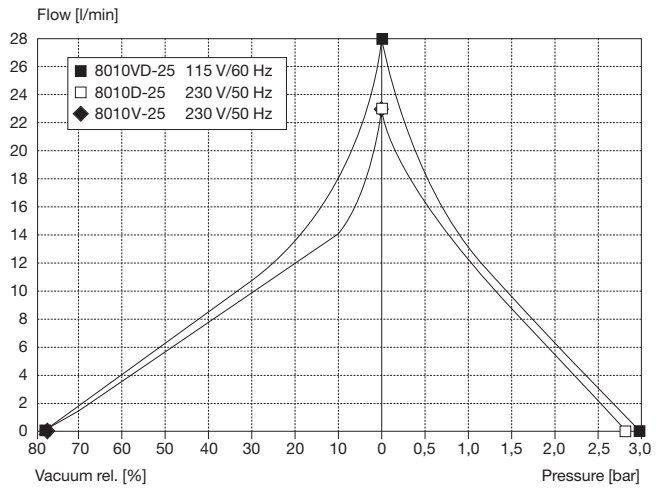
Motor type	Capacitor	Capacitor	Capacitor
Nominal voltage	115 V 50/60 Hz	230 V/50 Hz	230 V/50 Hz
Nominal speed at max. load	1500 rpm	1250 rpm	1250 rpm
Rated power	1,15 A	0,38 A	0,38 A
Power consumption	125 W	103 W	103 W
Motor insulation class	F	F	F
Protection class	IP00	IP00	IP00
Thermal switch	140 °C	140 °C	140 °C

General Data

Ambient temperature	15 to 40 °C	15 to 40 °C	15 to 40 °C
Media temperature	10 to 60 °C	10 to 60 °C	10 to 60 °C
Weight	2,5 kg	2,5 kg	2,5 kg
Port direction	CB	AD	AD

*Part number changes when restart against pressure or vacuum is required

Flow curves



Choice of materials:	Standard	Option
Chamber + head	Alu	VA 1.4571 Alu coated
Diaphragm	NBR	FKM (Viton) PTFE with stabilizer
Valves	FKM (Viton)	PTFE Kalrez

Model key:

8010 V(D) / 25 / A V N / AC

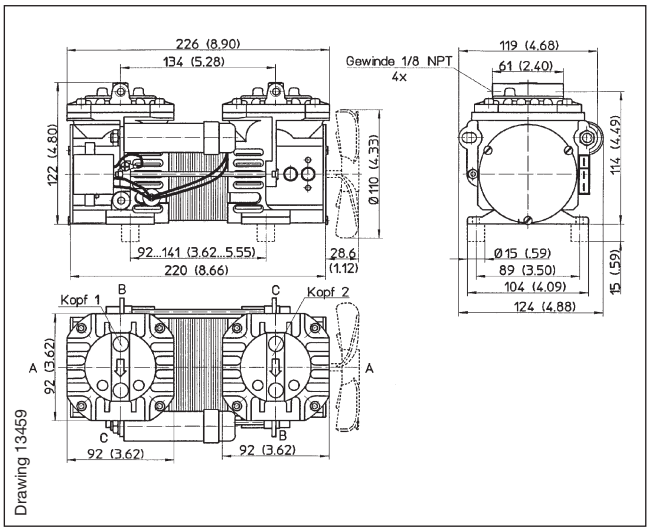
- 8010: Type
- V(D): Vacuum (Pressure)
- 25: Eccentric
- A V N: Chamber | O-rings | Diaphragm, Valves
- AC: Motor type

8010... Stock programme

THOMAS by Gardner Denver

Diaphragm Pump 8010Z AC

Flow	**45,6 l/min**
Max. pressure	**2,8 bar**
Max. vacuum	**92%**



Pneumatic Data

Description		8010ZVD/25/AVN/AC	8010ZDP/25/AVN/AC	8010ZVP/25/AVN/AC	8010ZVR/28/AVN/AC
Part number	115 V/60 Hz	80100131*			
	230 V/50 Hz		80101013	80101018	80100034
Max. flow		45,6 l/min	38,0 l/min	38,0 l/min	26,0 l/min
Max. pressure		2,0 bar	2,8 bar		
Max. continuous pressure		0,8 bar	0,8 bar		
Max. restart pressure		Ambient pressure	1,0 bar		
Max. vacuum		78%		78%	92%
Max. continuous vacuum		78%		78%	92%
Max. restart vacuum		78%		78%	92%

Electrical Data

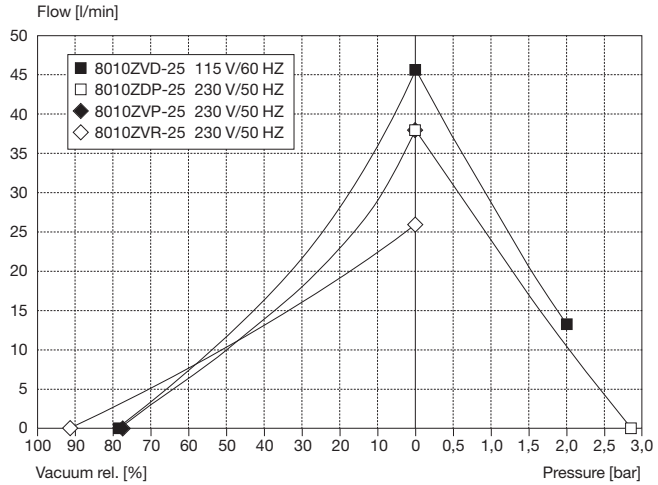
Motor type	Capacitor	Capacitor	Capacitor	Capacitor
Nominal voltage	115 V/60 Hz	230 V/50 Hz	230 V/50 Hz	230 V/50 Hz
Nominal speed at max. load	1500 rpm	1200 rpm	1200 rpm	1200 rpm
Rated power	1,0 A	0,57 A	0,57 A	0,57 A
Starting current	1,3 A	0,64 A	0,64 A	0,64 A
Power consumption	160 W	135 W	135 W	135 W
Motor insulation class	F	F	F	F
Protection class	IP00	IP00	IP00	IP00
Thermal switch	140 °C	140 °C	140 °C	140 °C

General Data

Ambient temperature	15 to 40 °C	15 to 40 °C	15 to 40 °C	15 to 40 °C
Media temperature	10 to 60 °C	10 to 60 °C	10 to 60 °C	10 to 60 °C
Weight	3,4 kg	3,4 kg	3,4 kg	3,4 kg
Configuration	Parallel	Parallel	Parallel	Series

*No restart against pressure

Flow curves



Choice of materials:	Standard	Option
Chamber + head	Alu	VA 1.4571 Alu coated
Diaphragm	NBR	FKM (Viton) PTFE with stabilizer
Valves	FKM (Viton)	PTFE Kalrez

Model key:

8010 Z V(D) P(R) / 25 / A V N / AC

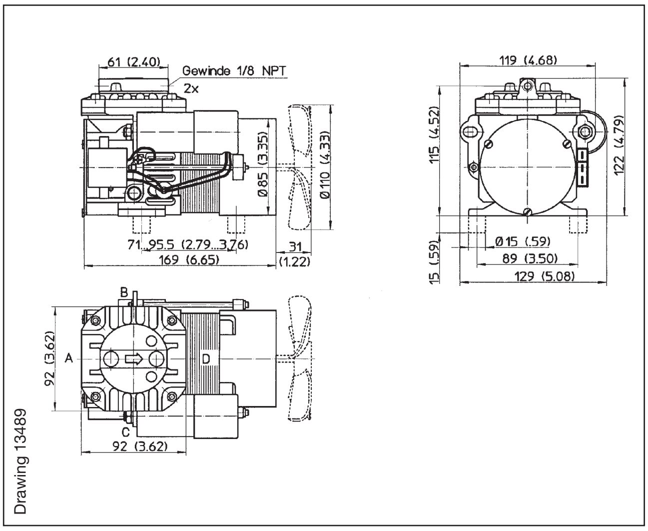
- 8010 Double head
- Z Type
- V(D) Vacuum (Pressure)
- P(R) P = Parallel, R = Series
- 25 Eccentric
- A Chamber
- V Motor type
- N O-rings
- / AC Diaphragm, Valves

8010... Stock programme

THOMAS by Gardner Denver

Diaphragm Pump 8015 AC

Flow	**28,0 l/min**
Max. pressure	**> 3,0 bar**
Max. vacuum	**83%**



Pneumatic Data

Description		8015D/35/AVN/AC	8015V/35/AVN/AC
Part number	230 V/50 Hz	80151001	80151002
Max. flow		28,0 l/min	28,0 l/min
Max. pressure		> 3,0 bar	
Max. continuous pressure		0,8 bar	
Max. restart pressure		2,5 bar	
Max. vacuum			83%
Max. continuous vacuum			83%
Max. restart vacuum			83%

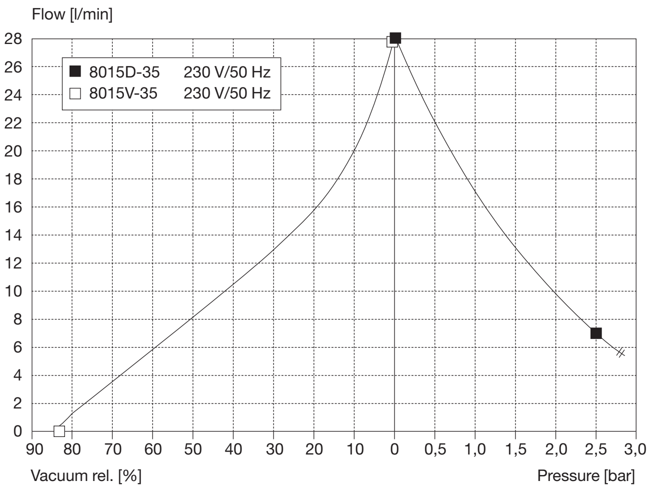
Electrical Data

Motor type	Capacitor	Capacitor
Nominal voltage	230 V/50Hz	230 V/50Hz
Nominal speed at max. load	1250 rpm	1250 rpm
Rated power	0,38 A	0,38 A
Starting current	0,45 A	0,45 A
Power consumption	103 W	103 W
Motor insulation class	F	F
Protection class	IP00	IP00
Thermal switch	140 °C	140 °C

General Data

Ambient temperature	15 to 40 °C	15 to 40 °C
Media temperature	10 to 60 °C	10 to 60 °C
Weight	2,5 kg	2,5 kg

Flow curves



Choice of materials:	Standard	Option
Chamber + head	Alu	VA 1.4571 Alu coated
Diaphragm	NBR	FKM (Viton) PTFE with stabilizer
Valves	FKM (Viton)	PTFE Kalrez

Model key:

O-rings
Chamber — Motor type
8010 V(D) / 35 / A V N / AC
Type — Eccentric — Diaphragm/Valves
Vacuum (Pressure)

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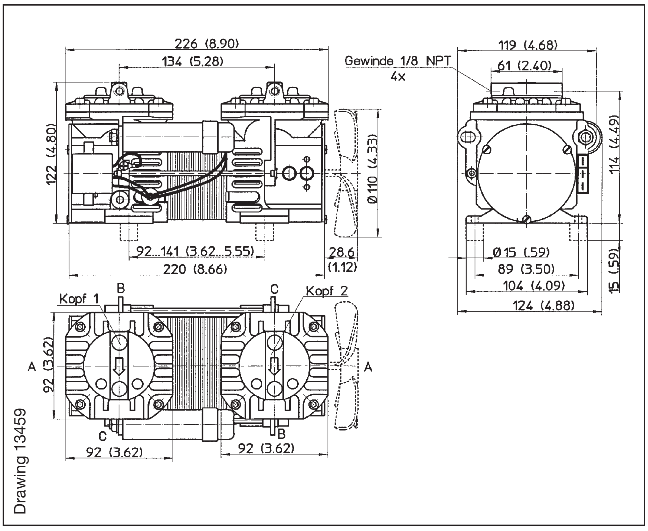
Diaphragm Pump 8015Z AC

Flow	**50,0 l/min**
Max. vacuum	**96%**

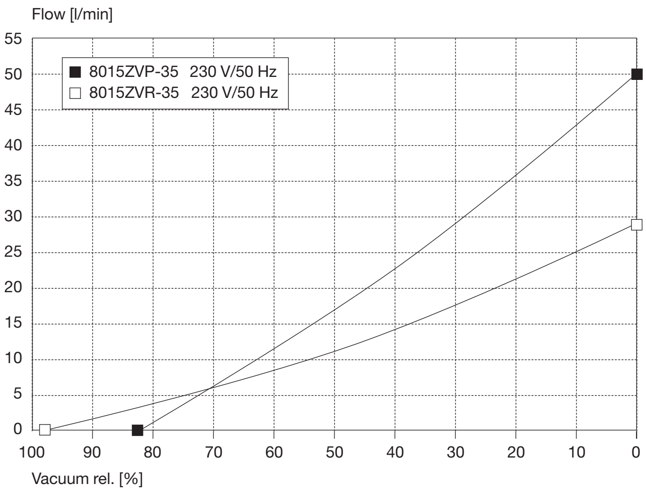


Pneumatic Data				
Description		8015ZVP/35/AVN/AC	8015ZVR/35/AVN/AC	
Part number	230 V/50 Hz	80150043	80150035	
Max. flow		50,0 l/min	29,0 l/min	
Max. vacuum		83%	96%	
Max. continuous vacuum		83%	96%	
Max. restart vacuum		83%	96%	

Electrical Data			
Motor type	Capacitor	Capacitor	Capacitor
Nominal voltage	230V/50Hz	230V/50Hz	230V/50Hz
Nominal speed at max. load	1250 rpm	1250 rpm	1250 rpm
Rated power	0,45 A	0,45 A	0,45 A
Starting current	0,53 A	0,53 A	0,53 A
Power consumption	135 W	135 W	135 W
Motor insulation class	F	F	F
Protection class	IP00	IP00	IP00
Thermal switch	140 °C	140 °C	140 °C

General Data			
Ambient temperature	15 to 40 °C	15 to 40 °C	15 to 40 °C
Media temperature	10 to 60 °C	10 to 60 °C	10 to 60 °C
Weight	3,9 kg	3,9 kg	3,9 kg
Configuration	Parallel	Parallel	Series

Flow curves



Choice of materials:	Standard	Option
Chamber + head	Alu	VA 1.4571 Alu coated
Diaphragm	NBR	FKM _ PTFE with stabilizer
Valves	FKM _	PTFE _

Model key:

O-rings
Double head Chamber Motor type
8015 Z V(D) P(R) / 20 / A V N / AC
Type Eccentric Diaphragm, Valves
Vacuum P = Parallel
(Pressure) R = Series

The information presented in this material is based on technical data and test results of nominal units. It is believed to be accurate and reliable and is offered as an aid to help in the selection of Thomas products. It is the responsibility of the user to determine the suitability of the product for the intended use and the user assumes all risk and liability whatsoever in connection therewith. Thomas does not warrant, guarantee or assume any obligation or liability in connection with this information.

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