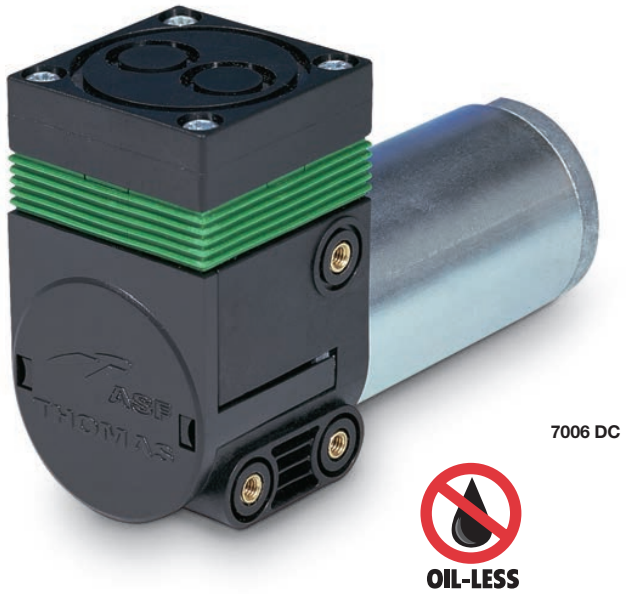
Diaphragm Pumps

MODELS

7006
7010
7011
7015



7006 DC

OIL-LESS

FEATURES

- Oil-less
- Maintenance free
- Smooth running
- Low sound level
- Long lifetime
- Sealed tight
- Large choice in material
- Pressure or vacuum

TYPICAL APPLICATIONS

- Medical devices
- Analysis
- Air collector
- Inhalators
- Level surveillance
- Autoclaves

TÜV SÜD ISO 9001

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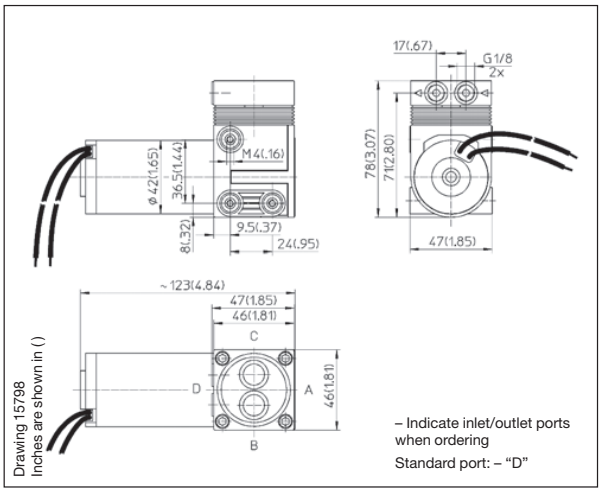
Diaphragm Pump 7006 DC

Flow	**7,5 l/min**
Max. pressure	**2,5 bar**
Max. vacuum	**85 %**

OIL-LESS



Pneumatic Data

Description		7006VD/2,3/E/DC
Part number	12 V DC	70060050
	24 V DC	70060052
Max. flow		7,5 l/min
Max. intermittent duty		2,5 bar
Max. continuous pressure		0,8 bar
Max. restart pressure		2,5 bar
Max. vacuum		85 %
Max. continuous vacuum		85 %
Max. restart vacuum		85 %

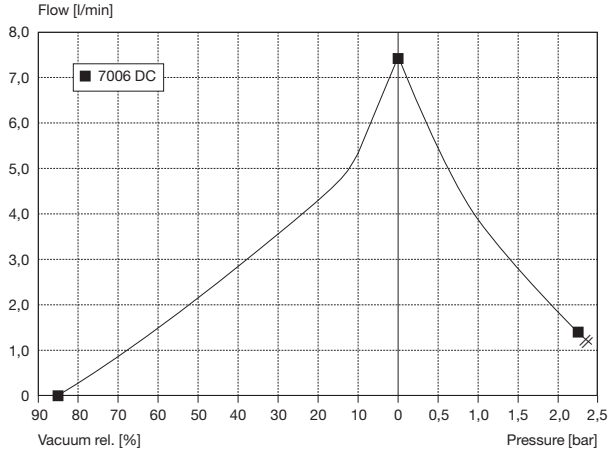
Electrical Data

Motor type	Permanent magnet
Nominal voltage	12/24 V DC
Nominal speed	2800 rpm
Current consumption	2,3/1,15 A
Starting current	5,4/2,7 A
Power consumption	28 W
Motor insulation class	B
Protection class	IP20

General Data

Ambient temperature	15 to 40 °C
Media temperature	15 to 60 °C
Weight	0,66 kg
Port direction	D

Flow Curves



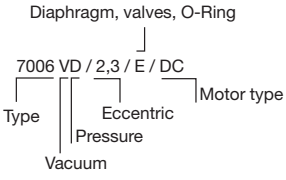
Wetted parts

Pump head	Polyarylamide
Diaphragm, valves, O-Ring	EPDM

Options

PPS
FPM, PTFE (FFPM)

Model key:



7006... Stock programme

THOMAS
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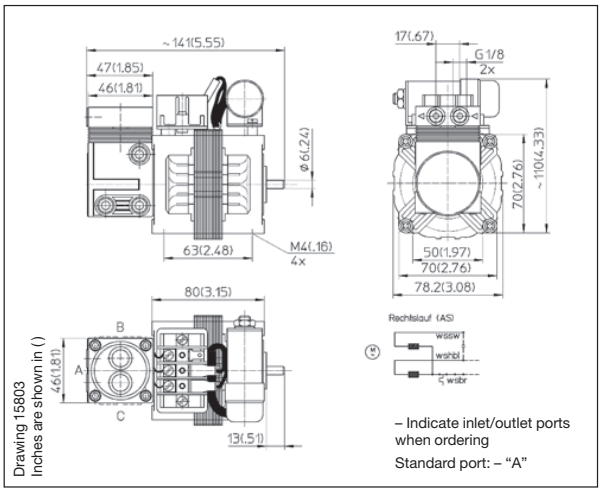
Diaphragm Pump 7006 AC

Flow	**7,5 l/min**
Max. pressure	**2,5 bar**
Max. vacuum	**85 %**

OIL-LESS



Pneumatic Data

Description		7006VD/2,3/E/AC
Part number	230 V/50 Hz	70060053
Max. flow		7,5 l/min
Max. intermittent duty		2,5 bar
Max. continuous pressure		0,8 bar
Max. restart pressure		2,5 bar
Max. vacuum		85 %
Max. continuous vacuum		85 %
Max. restart vacuum		85 %

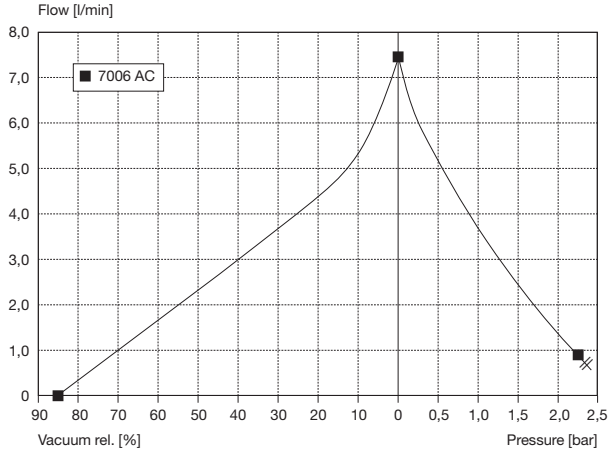
Electrical Data

Motor type	Capacitor
Nominal voltage	230 V/50 Hz
Nominal speed	2800 rpm
Current consumption	0,5 A
Starting current	0,7 A
Power consumption	20 W
Motor insulation class	F
Protection class	IP00
Thermal switch	150 °C

General Data

Ambient temperature	15 to 40 °C
Media temperature	15 to 40 °C
Weight	1,6 kg
Port direction	A

Flow Curves



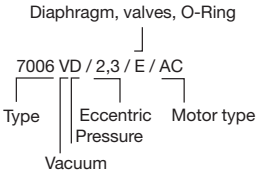
Wetted parts

Pump head	Polyarylamide
Diaphragm, valves, O-Ring	EPDM

Options

PPS
FPM, PTFE (FFPM)

Model key:



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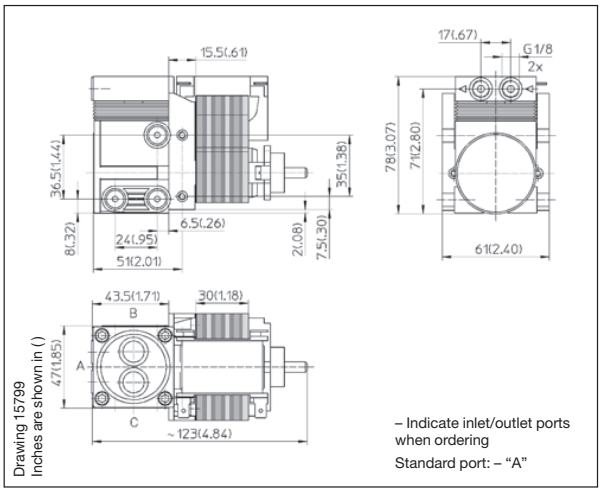
Diaphragm Pump 7006 AC

Flow	**9,0 l/min**
Max. pressure	**2,5 bar**
Max. vacuum	**85 %**

OIL-LESS



Pneumatic Data

Description		7006VD/2,3/E/AC	7006VD/2,3/E/AC
Part number	115 V/60 Hz	70060063	
	230 V/50 Hz		70060051
Max. flow		9,0 l/min	7,5 l/min
Max. intermittent duty		2,5 bar	2,5 bar
Max. continuous pressure		0,8 bar	0,8 bar
Max. restart pressure		Ambient pressure*	Ambient pressure*
Max. vacuum		85 %	85 %
Max. continuous vacuum		85 %	85 %
Max. restart vacuum		Ambient pressure*	Ambient pressure*

Electrical Data

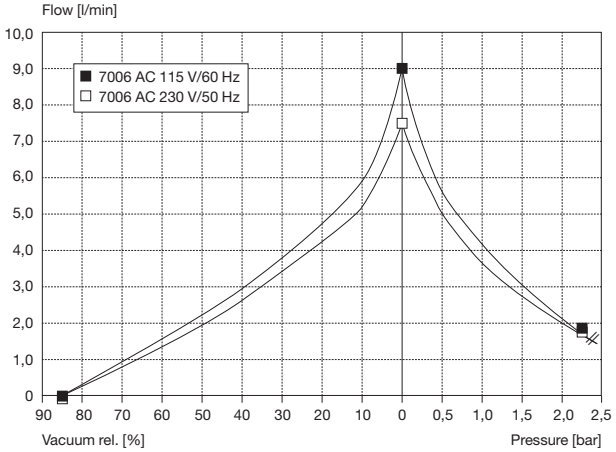
Motor type	Shaded pole	Shaded pole
Nominal voltage	115 V/60 Hz	230 V/50 Hz
Nominal speed	3300 rpm	2800 rpm
Current consumption	1,3 A	0,55 A
Starting current	1,7 A	0,7 A
Power consumption	67 W	62 W
Motor insulation class	H	F
Protection class	IP00	IP00
Thermal switch	150 °C	150 °C

General Data

Ambient temperature	15 to 40 °C	15 to 40 °C
Media temperature	15 to 40 °C	15 to 40 °C
Weight	1,1 kg	1,1 kg
Port direction	A	A

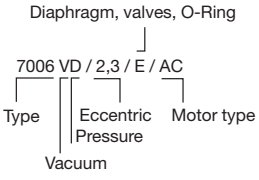
* Part numbers change when restart is required with vacuum or pressure.

Flow Curves



Wetted parts		Options
Pump head	Polyarylamide	PPS
Diaphragm, valves, O-Ring	EPDM	FPM, PTFE (FFPM)

Model key:



7006... Stock programme

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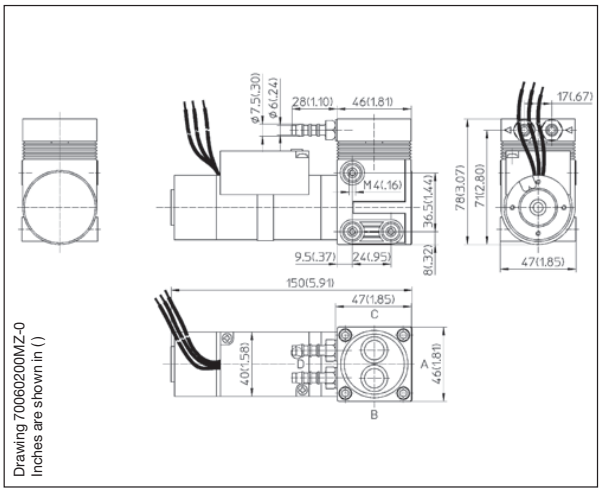
Diaphragm Pump 7006 BLDC

Flow	**10,0 l/min**
Max. pressure	**2,5 bar**
Max. vacuum	**85 %**

OIL-LESS



Pneumatic Data

Description		7006VD/2,3/E/BLDC
Part number	12 V DC	70060200
	24 V DC	70060071
Max. flow		10,0 l/min[2]
Max. intermittent duty		2,5 bar
Max. continuous pressure		0,8 bar
Max. restart pressure		Ambient pressure*
Max. vacuum		85 %
Max. continuous vacuum		85 %
Max. restart vacuum		85 %

Electrical Data

Motor type	Brushless
Nominal voltage	12/24 V DC
Nominal speed	1000/3500 rpm[1]
Current consumption	3,9/2,1 A
Starting current	10,4 A
Power consumption	28 W
Motor insulation class	E
Protection class	IP20

Wiring diagram

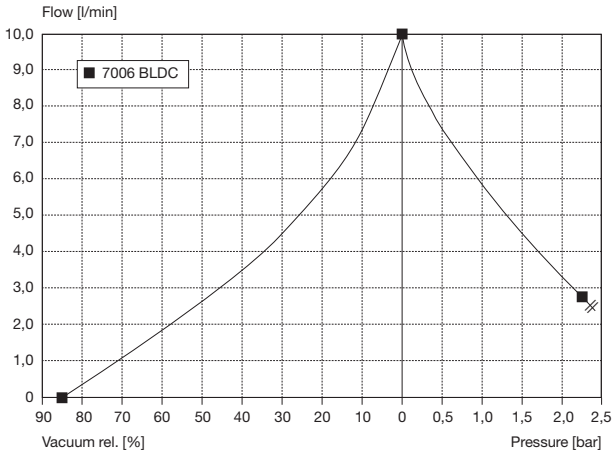
	Function	Colour	Control
Pin 1	V Supply	Red	12 VDC (max. voltage range: 10..16 VDC) 24 VDC (max. voltage range: 10..28 VDC)
Pin 2	Ground	Black	Ground
Pin 3	Speed Control	Brown	0..12 VDC (0...3500 rpm) 0..24 VDC (0...3500 rpm)

General Data

Ambient temperature	15 to 40 °C
Media temperature	15 to 60 °C
Weight	0,66 kg
Port direction	D

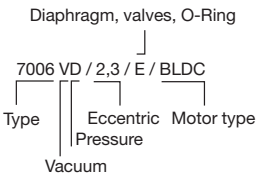
[1] For external speed control 1 to 10 V.
[2] Flow at 3500 rpm.
* Part numbers change when restart is required with vacuum or pressure.

Flow Curves



Wetted parts		Options
Pump head	Polyarylamide	PPS
Diaphragm, valves, O-Ring	EPDM	FPM, PTFE (FFPM)

Model key:



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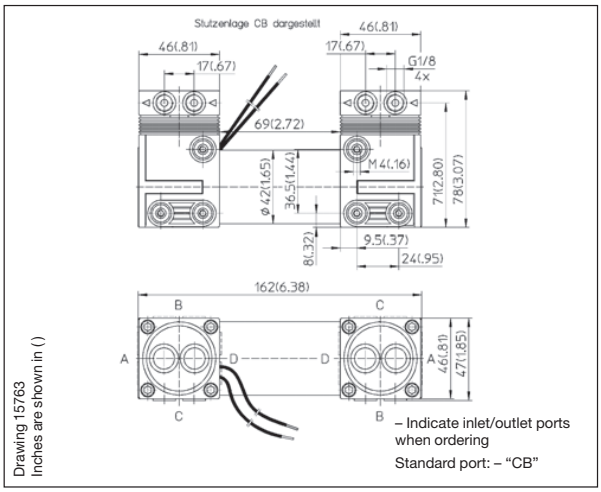
Diaphragm Pump 7006ZP/ZVR DC

Flow	**15,0 l/min**
Max. pressure	**2,5 bar**
Max. vacuum	**95 %**

OIL-LESS



Pneumatic Data

Description		7006ZVDP/2,3/E/DC	7006ZVR/2,3/E/DC
Part number	12 V DC	70060054	70060057
	24 V DC	70060055	70060058
Max. flow		15,0 l/min	8,0 l/min
Max. intermittent duty		2,5 bar	
Max. continuous pressure		0,8 bar	
Max. restart pressure		2,5 bar	
Max. vacuum		85 %	95 %
Max. continuous vacuum		85 %	95 %
Max. restart vacuum		85 %	95 %

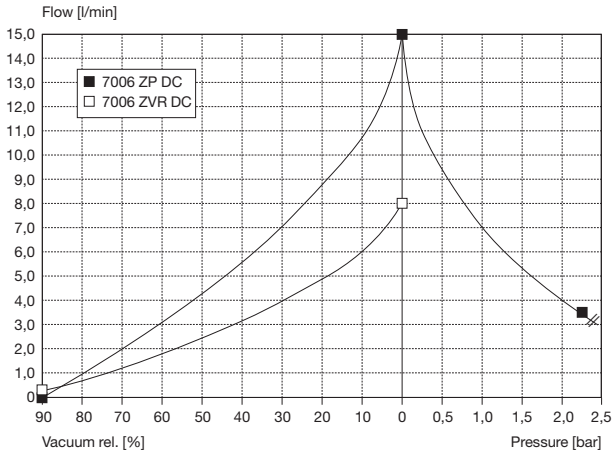
Electrical Data

Motor type	Permanent magnet	Permanent magnet
Nominal voltage	12/24 V DC	12/24 V DC
Nominal speed	2800 rpm	2800 rpm
Current consumption	4,0/2 A	3,7/2 A
Starting current	8,7/4,7 A	8,7/4,7 A
Power consumption	48 W	48 W
Motor insulation class	B	B
Protection class	IP20	IP20

General Data

Ambient temperature	15 to 40 °C	15 to 40 °C
Media temperature	15 to 60 °C	15 to 60 °C
Weight	0,9 kg	0,9 kg
Port direction	CB	DD
Configuration	Parallel	Series

Flow Curves



Wetted parts

Pump head	Polyarylamide
Diaphragm, valves, O-Ring	EPDM

Options

PPS
FPM, PTFE (FFKM)

Model key:

7006... Stock programme

Double head Diaphragm, valves, O-Ring
P = Parallel
R = Series
7006ZVDP / 2,3 / E / DC
Type Vacuum Eccentric
Pressure
Motor type

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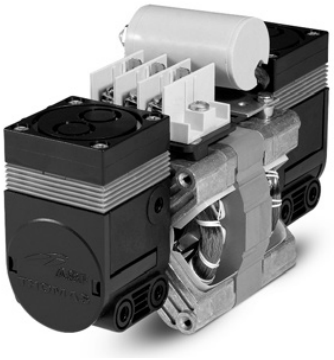
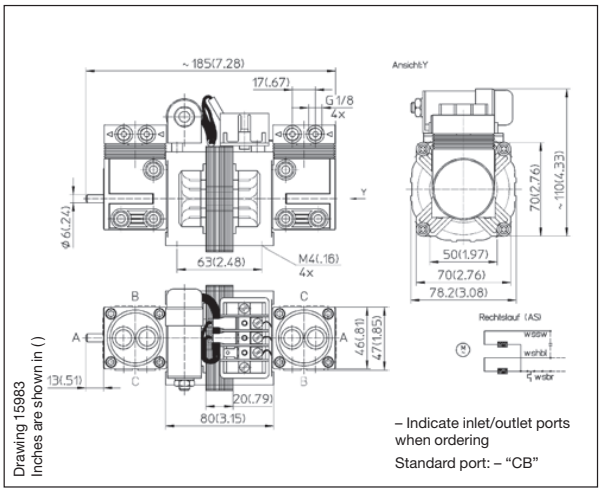
Diaphragm Pump 7006ZP AC

Flow	**14,0 l/min**
Max. pressure	**2,5 bar**
Max. vacuum	**85 %**



OIL-LESS



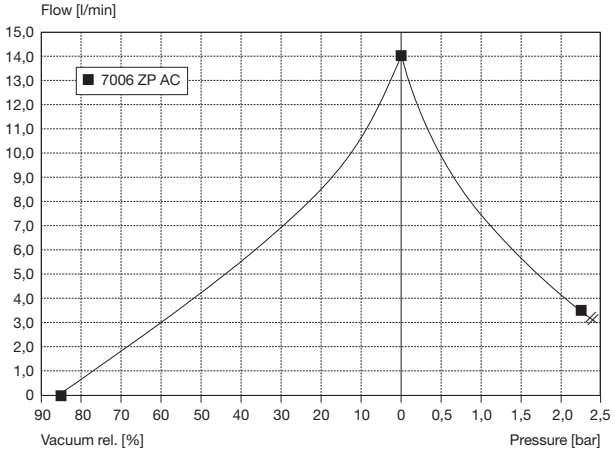
Pneumatic Data		
Description		7006ZVDP/2,3/E/AC
Part number	230 V/50 Hz	70060056
Max. flow		14,0 l/min
Max. intermittent duty		2,5 bar
Max. continuous pressure		0,8 bar
Max. restart pressure		Ambient pressure*
Max. vacuum		85 %
Max. continuous vacuum		85 %
Max. restart vacuum		85 %

Electrical Data	
Motor type	Capacitor
Nominal voltage	230 V/50 Hz
Nominal speed	2800 rpm
Current consumption	0,5 A
Starting current	0,7 A
Power consumption	20 W
Motor insulation class	F
Protection class	IP00
Thermal switch	150 °C

General Data	
Ambient temperature	15 to 40 °C
Media temperature	15 to 40 °C
Weight	1,8 kg
Port direction	CB
Configuration	Parallel

* Part numbers change when restart is required with vacuum or pressure.
Pneumatic data are measured at 50 Hz. At 60 Hz the performance is increased by 20 %.

Flow Curves



Wetted parts		Options
Pump head	Polyarylamide	PPS
Diaphragm, valves, O-Ring	EPDM	FPM, PTFE (FFKM)

Model key:

Double head Diaphragm, valves, O-Ring
P = Parallel
R = Series
7006ZVDP / 2,3 / E / AC
Type Vacuum Pressure Eccentric Motor type

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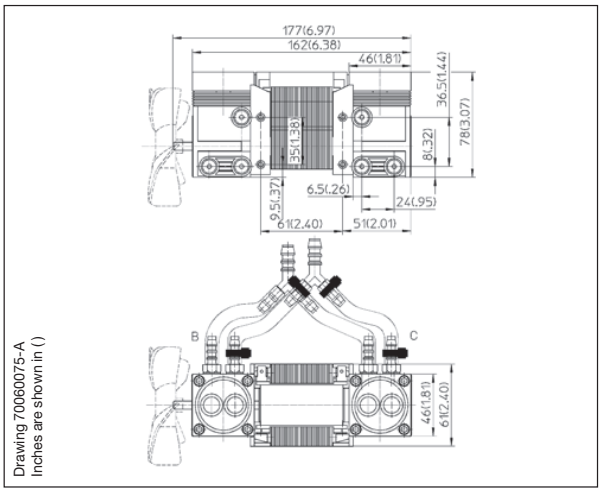
Diaphragm Pump 7006ZP AC

Flow	**13,5 l/min**
Max. pressure	**2,5 bar**
Max. vacuum	**95 %**

OIL-LESS



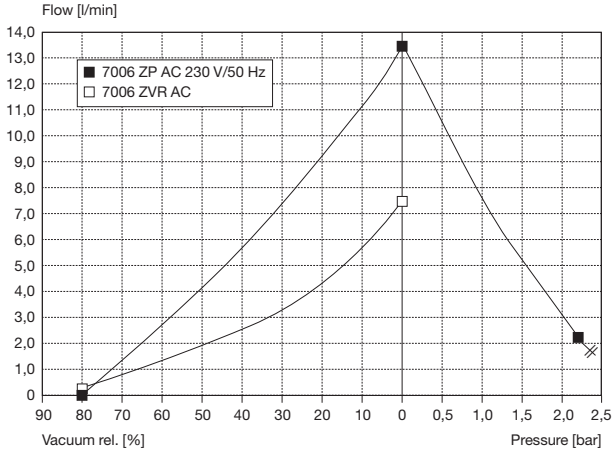
Pneumatic Data			
Description		7006ZVDP/2,3/E/AC	7006ZVR/2,3/E/AC
Part number	230 V/50 Hz	70060075	70060076
Max. flow		13,5 l/min	7,5 l/min
Max. intermittent duty		2,5 bar	
Max. continuous pressure		0,8 bar	
Max. restart pressure		Ambient pressure	
Max. vacuum		85 %	95 %
Max. continuous vacuum		85 %	95 %
Max. restart vacuum		Ambient pressure	Ambient pressure

Electrical Data		
Motor type	Shaded pole	Shaded pole
Nominal voltage	230 V/50 Hz	230 V/50 Hz
Nominal speed	2500 rpm	2500 rpm
Current consumption	0,7 A	0,7 A
Starting current	1,1 A	1,1 A
Power consumption	180 W	180 W
Motor insulation class	H	H
Protection class	IP00	IP00
Thermal switch	180 °C	180 °C

General Data		
Ambient temperature	15 to 40 °C	15 to 40 °C
Media temperature	15 to 40 °C	15 to 40 °C
Weight	1,8 kg	1,8 kg
Port direction	CB	CB
Configuration	Parallel	Series

Pneumatic data are measured at 50 Hz. At 60 Hz the performance is increased by 20 %.

Flow Curves



Wetted parts		Options
Pump head	Polyarylamide	PPS
Diaphragm, valves, O-Ring	EPDM	FPM, PTFE (FFKM)

Model key:

Double head — Diaphragm, valves, O-Ring
P = Parallel
R = Series
7006ZVDP / 2,3 / E / AC
Type — Vacuum — Pressure — Eccentric — Motor type

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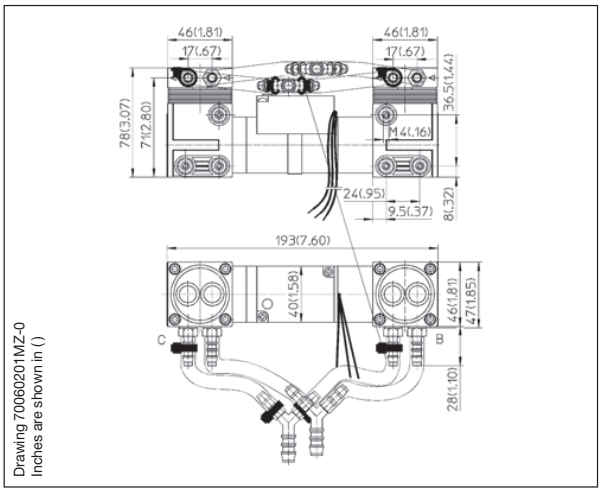
Diaphragm Pump 7006ZP/ZVR BLDC

Flow	**18,0 l/min**
Max. pressure	**2,5 bar**
Max. vacuum	**95 %**

OIL-LESS



Pneumatic Data			
Description		7006ZVDP/2,3/E/BLDC	7006ZVR/2,3/E/BLDC
Part number	12 V DC	70060201	70060074
	24 V DC	70060016	70060073
Max. flow		18,0 l/min[2]	8,7 l/min[2]
Max. intermittent duty		2,5 bar	
Max. continuous pressure		0,5 bar	
Max. restart pressure		Ambient pressure*	
Max. vacuum		85 %	95 %
Max. continuous vacuum		85 %	95 %
Max. restart vacuum		Ambient pressure*	Ambient pressure*

Electrical Data		
Motor type	Brushless	Brushless
Nominal voltage	12/24 V DC	12/24 V DC
Nominal speed	1000/3500 rpm[1]	1000/3500 rpm[1]
Current consumption	3,9/2,1 A	3,9/2,1 A
Starting current	10,5 A	10,5 A
Power consumption	50 W	30 W
Motor insulation class	E	E
Protection class	IP20	IP20

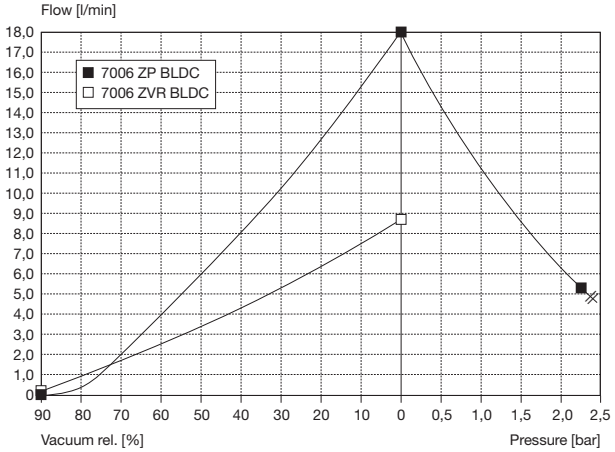
Wiring diagram

	Function	Colour	Control
Pin 1	V Supply	Red	12 VDC (max. voltage range: 10..16 VDC) 24 VDC (max. voltage range: 10..28 VDC)
Pin 2	Ground	Black	Ground
Pin 3	Speed Control	Brown	0..12 VDC (0...3500 rpm) 0..24 VDC (0...3500 rpm)

General Data		
Ambient temperature	15 to 40 °C	15 to 40 °C
Media temperature	15 to 60 °C	15 to 60 °C
Weight	0,9 kg	0,9 kg
Port direction	CB	CB
Configuration	Parallel	Series

[1] For external speed control 1 to 10 V. [2] Flow at 3500 rpm.
* Part numbers change when restart is required with vacuum or pressure.

Flow Curves



Wetted parts	
Pump head	Polyarylamide
Diaphragm, valves, O-Ring	EPDM

Options
PPS
FPM, PTFE (FFKM)

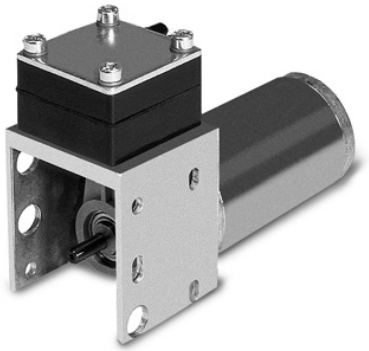
Model key:

Double head Diaphragm, valves, O-Ring
P = Parallel
R = Series
7006ZVDP / 2,3 / E / BLDC
Type Vacuum Pressure Eccentric Motor type

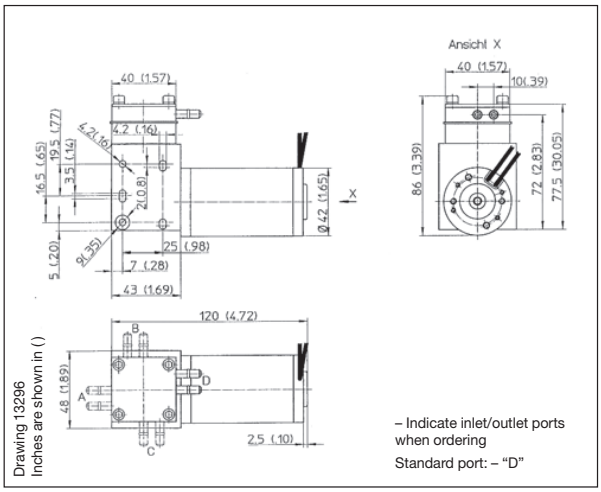
THOMAS
by Gardner Denver

Diaphragm Pump 7010 DC

Flow	**6,5 l/min**
Max. pressure	**2,2 bar**
Max. vacuum	**73 %**



OIL-LESS



Pneumatic Data

Description		7010VD/2,2/N/DC
Part number	12 V DC	70102502
	24 V DC	70102514
Max. flow		6,5 l/min
Max. intermittent duty		2,2 bar
Max. continuous pressure		1,0 bar
Max. restart pressure		1,0 bar
Max. vacuum		73 %
Max. continuous vacuum		73 %
Max. restart vacuum		73 %

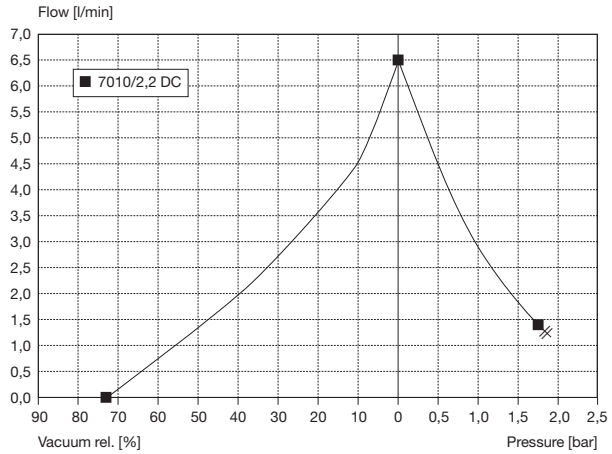
Electrical Data

Motor type	Permanent magnet
Nominal voltage	12/24 V DC
Nominal speed	2800 rpm
Current consumption	1,3/0,65 A
Starting current	5,9/3,4 A
Power consumption	16 W
Motor insulation class	E
Protection class	IP00

General Data

Ambient temperature	15 to 40 °C
Media temperature	15 to 60 °C
Weight	0,6 kg
Port direction	D

Flow Curves



Wetted parts

Pump chamber	Polyarylamide
Pump head	Polyamide
Diaphragm, valves, O-Ring	NBR
Diaphragm, plate, screw	Galvanized steel

Options

PPS
PPS
FPM, EPDM (PTFE)

Model key:

7010... Stock programme

Diaphragm, valves, O-Ring

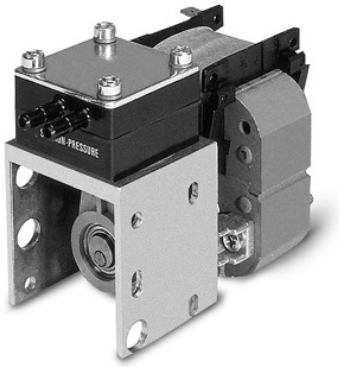
7010VD / 2,2 / N / DC

Type | Pressure: Vacuum | Eccentric | Motor type

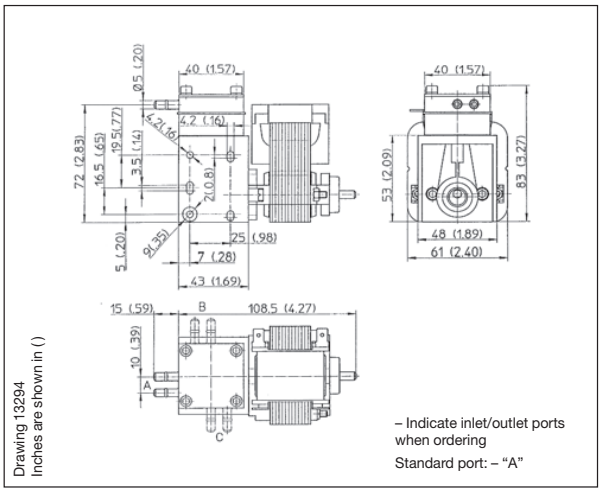
THOMAS by Gardner Denver

Diaphragm Pump 7010 AC

Flow	**5,5 l/min**
Max. pressure	**2,3 bar**
Max. vacuum	**73 %**



OIL-LESS



Pneumatic Data

Description		7010VD/2,2/V/AC
Part number	230 V/50 Hz	70102532
Max. flow		5,5 l/min
Max. intermittent duty		2,3 bar
Max. continuous pressure		1,2 bar
Max. restart pressure		Ambient pressure*
Max. vacuum		73 %
Max. continuous vacuum		73 %
Max. restart vacuum		Ambient pressure*

Electrical Data

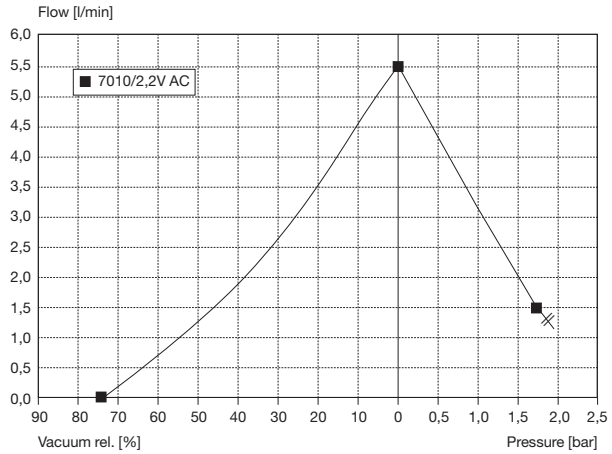
Motor type	Shaded pole
Nominal voltage	230 V/50 Hz
Nominal speed	2300 rpm
Current consumption	0,54 A
Starting current	0,62 A
Power consumption	52 W
Motor insulation class	E
Protection class	IP00
Thermal switch	no

General Data

Ambient temperature	15 to 40 °C
Media temperature	15 to 40 °C
Weight	0,95 kg
Port direction	A

* Part numbers change when restart is required with vacuum or pressure.

Flow Curves



Wetted parts

Pump chamber	Polyarylamide
Pump head	Polyamide
Diaphragm, valves, O-Ring	FPM (V)
Diaphragm, plate, screw	Galvanized steel

Options

PPS
PPS
EPDM (PTFE), NBR

Model key:

7010... Stock programme

Diaphragm, valves, O-Ring

7010VD / 2,2 / N / AC

Type: Vacuum, Pressure

Eccentric

Motor type

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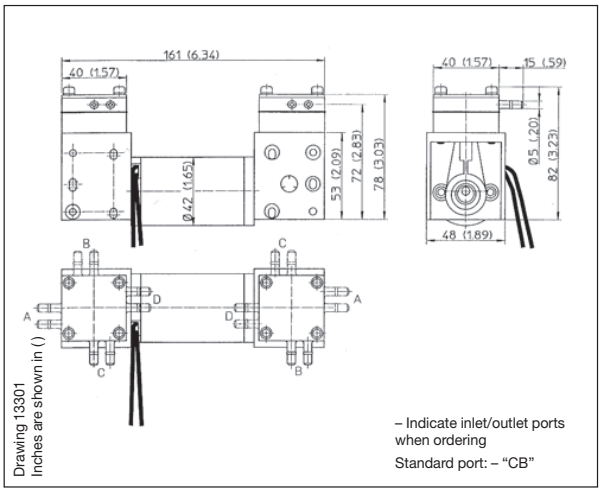
Diaphragm Pump 7010Z DC

Flow	**12,0 l/min**
Max. pressure	**2,0 bar**
Max. vacuum	**90 %**

OIL-LESS



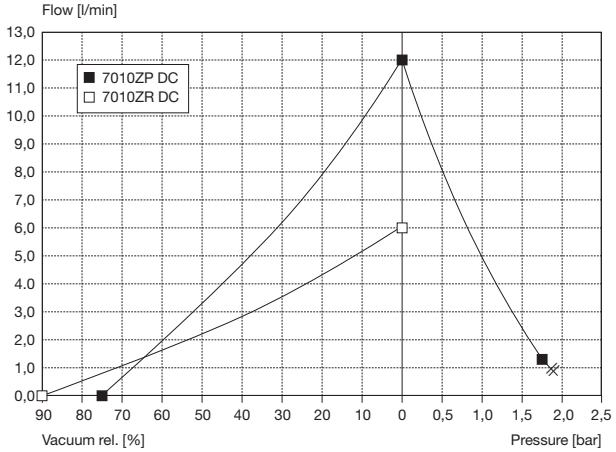
Pneumatic Data			
Description		7010ZDP/2,2/NVN/DC	7010ZVR/2,2/NVN/DC
Part number	12 V	70102167	
	24 V	70102133	70100043
Max. flow		12,0 l/min	6,0 l/min
Max. intermittent duty		2,0 bar	
Max. continuous pressure		0,8 bar	
Max. vacuum		75 %	90 %
Max. continuous vacuum		75 %	90 %
Max. restart vacuum		Ambient pressure*	90 %

Electrical Data		
Motor type	Direct current	Direct current
Nominal voltage	12/24 V DC	12/24 V DC
Nominal speed	2800 rpm	2800 rpm
Current consumption	1,7/0,9 A	0,9 A
Starting current	4,5/3,5 A	3,5 A
Power consumption	20 W	20 W
Motor insulation class	E	E
Protection class	IP00	IP00

General Data		
Ambient temperature	15 to 40 °C	15 to 40 °C
Media temperature	15 to 60 °C	15 to 60 °C
Weight	0,75 kg	0,75 kg
Port direction	CB	CB
Configuration	Parallel	Series

* Part numbers change when restart is required with vacuum or pressure.

Flow Curves



Wetted parts		Options
Pump chamber	Polyarylamide	PPS
Pump head	Polyamide	PPS
Diaphragm, valves, O-Ring	FPM (V), NBR	EPDM, PTFE
Diaphragm, plate, screw	Galvanized steel	

Model key:

Double head Diaphragm, valves, O-Ring
P = Parallel
R = Series
7010ZDP / 2,2 / NVN / DC
Type Pressure Eccentric Motor type

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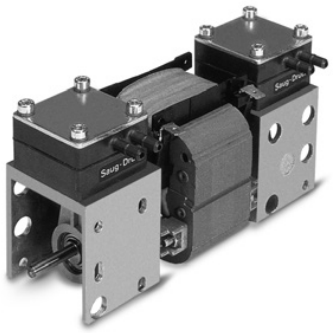
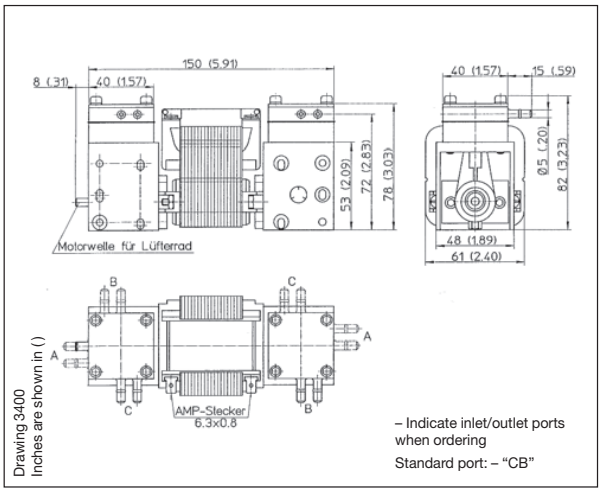
Diaphragm Pump 7010Z AC

Flow	**12,5 l/min**
Max. pressure	**2,3 bar**
Max. vacuum	**90 %**



OIL-LESS



Pneumatic Data

Description		7010ZVDP/2,2/N/AC	7010ZVDP/2,2/NVN/AC	7010ZVR/2,2/NVN/AC
Part number	115 V/60 Hz	70101813		
	230 V/50 Hz		70100196	70100448
Max. flow		12,5 l/min	10,4 l/min	5,3 l/min
Max. intermittent duty		2,0 bar	2,3 bar	
Max. continuous pressure		0,8 bar	0,8 bar	
Max. restart pressure		Ambient pressure*	Ambient pressure*	
Max. vacuum		75 %	75 %	90 %
Max. continuous vacuum		75 %	75 %	90 %
Max. restart vacuum		75 %	Ambient pressure*	90 %

Electrical Data

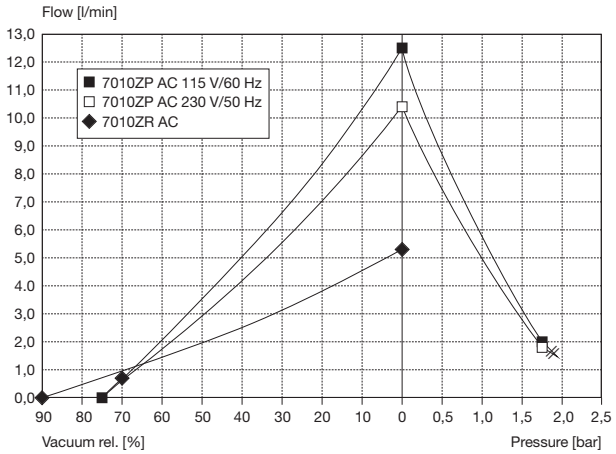
Motor type	Shaded pole	Shaded pole	Shaded pole
Nominal voltage	115 V/60 Hz	230 V/50 Hz	230 V/50 Hz
Nominal speed	2900 rpm	2300 rpm	2300 rpm
Current consumption	0,9 A	0,5 A	0,38 A
Starting current	1,1 A	0,6 A	0,6 A
Power consumption	67 W	60 W	60 W
Motor insulation class	B	B	B
Protection class	IP00	IP00	IP00
Thermal switch	130 °C	no	no

General Data

Ambient temperature	15 to 40 °C	15 to 40 °C	15 to 40 °C
Media temperature	15 to 40 °C	15 to 40 °C	15 to 60 °C
Weight	1,45 kg	1,45 kg	1,45 kg
Port direction	CB	CB	CB
Configuration	Parallel	Parallel	Series

* Part numbers change when restart is required with vacuum or pressure.

Flow Curves



Wetted parts

Pump chamber	Polyarylamide
Pump head	Polyamide
Diaphragm, valves, O-Ring	FPM (V), NBR
Diaphragm, plate, screw	Galvanized steel

Options

PPS
PPS
EPDM, PTFE

Model key:

Double head — Diaphragm, valves, O-Ring
P = Parallel
R = Series
7010ZVDP / 2,2 / NVN / AC
Type
Pressure
Vacuum
Eccentric
Motor type

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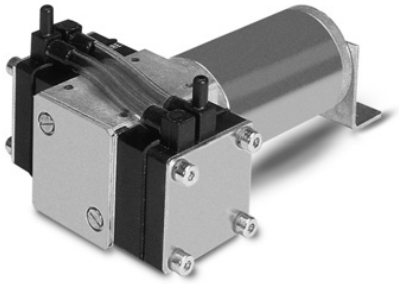
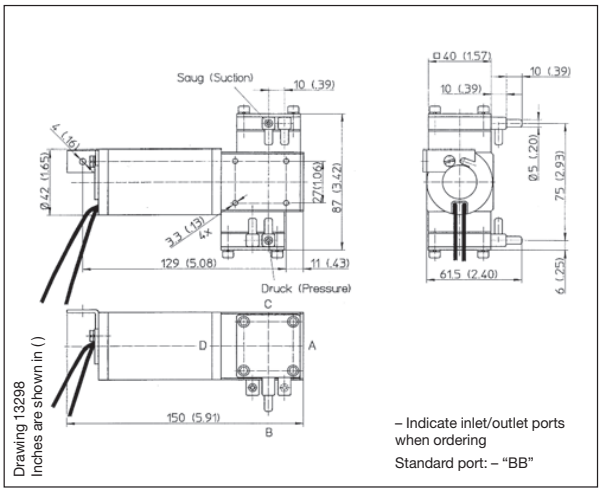
Diaphragm Pump 7011 DC

Flow	**11,0 l/min**
Max. pressure	**2,3 bar**
Max. vacuum	**90 %**



OIL-LESS



Pneumatic Data

Description		7011VDP/2,2/NVN/DC	7011VR/2,2/N/DC
Part number	12 V DC	70110008	70110252
	24 V DC	70110042	
Max. flow		11,0 l/min	6,5 l/min
Max. intermittent duty		2,3 bar	
Max. continuous pressure		0,8 bar	
Max. restart pressure		Ambient pressure*	
Max. vacuum		73 %	90 %
Max. continuous vacuum		73 %	90 %
Max. restart vacuum		Ambient pressure*	90 %

Electrical Data

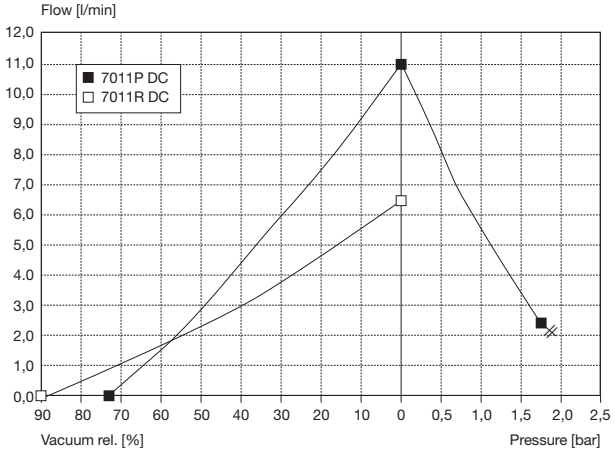
Motor type	Direct current	Direct current
Nominal voltage	12/24 V DC	12/24 V DC
Nominal speed	3100 rpm	3100 rpm
Current consumption	2,0/1,0 A	1,7 A
Starting current	4,5/3,5 A	4,5 A
Power consumption	24 W	20 W
Motor insulation class	E	E
Protection class	IP20	IP20

General Data

Ambient temperature	15 to 40 °C	15 to 40 °C
Media temperature	15 to 60 °C	15 to 60 °C
Weight	0,85 kg	0,85 kg
Port direction	BB	BB
Configuration	Parallel	Series

* Part numbers change when restart is required with vacuum or pressure.

Flow Curves



Wetted parts		**Options**
Pump chamber	Polyarylamide	PPS
Pump head	Polyamide	PPS
Diaphragm, valves, O-Ring	FPM (V), NBR	EPDM, PTFE
Diaphragm, plate, screw	Galvanized steel	

Model key:

7011... Stock programme

Vacuum — Diaphragm, valves, O-Ring

P = Parallel
R = Series

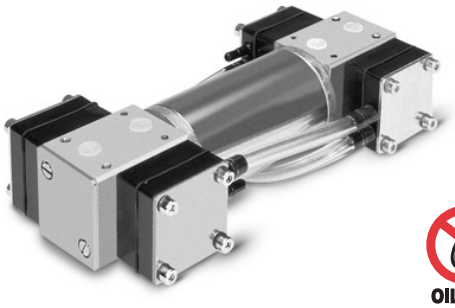
7011VDP / 2,2 / NVN / DC

Type — Pressure — Eccentric — Motor type

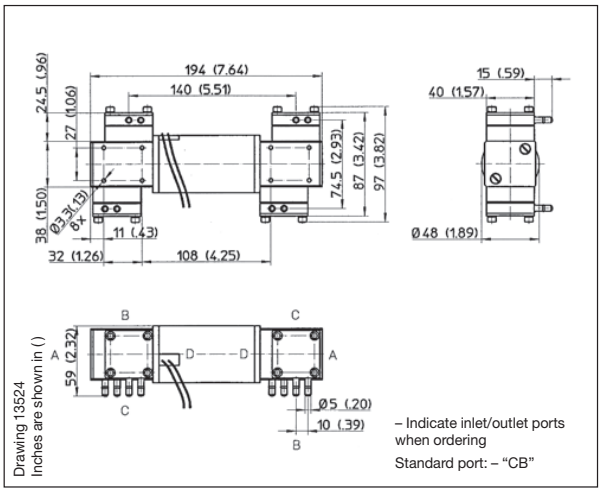
THOMAS
by Gardner Denver

Diaphragm Pump 7011Z DC

Flow	**24,0 l/min**
Max. pressure	**2,5 bar**
Max. vacuum	**98 %**



OIL-LESS



Pneumatic Data

Description		7011ZVDP/2,2/VVN/DC	7011ZVR/2,2/VVN/DC
Part number	12 V DC	70110520	70110037
	24 V DC	70110521	70110069
Max. flow		24,0 l/min	7,5 l/min
Max. intermittent duty		2,5 bar	
Max. continuous pressure		0,5 bar	
Max. restart pressure		Ambient pressure*	
Max. vacuum		73 %	98 %
Max. continuous vacuum		73 %	98 %
Max. restart vacuum		Ambient pressure*	98 %

Electrical Data

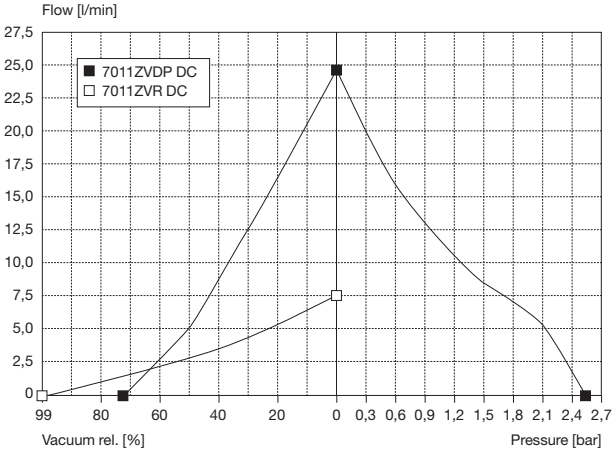
Motor type	Direct current	Direct current
Nominal voltage	12/24 V DC	12/24 V DC
Nominal speed	3200 rpm	3200 rpm
Current consumption	3,8/1,9 A	3,8/1,9 A
Starting current	11,7/8,2 A	11,7/8,2 A
Power consumption	46 W	46 W
Motor insulation class	E	E
Protection class	IP20	IP20

General Data

Ambient temperature	15 to 40 °C	15 to 40 °C
Media temperature	15 to 60 °C	15 to 60 °C
Weight	1,4 kg	1,4 kg
Port direction	CB	CB
Configuration	Parallel	Series

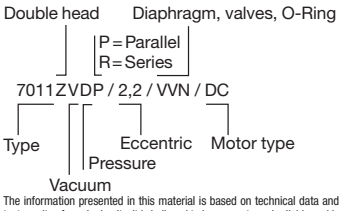
* Part numbers change when restart is required with vacuum or pressure.

Flow Curves



Wetted parts		Options
Pump chamber	Polyarylamide	PPS
Pump head	Polyamide	PPS
Diaphragm, valves, O-Ring	FPM (V), NBR	EPDM, PTFE
Diaphragm, plate, screw	Galvanized steel	

Model key:



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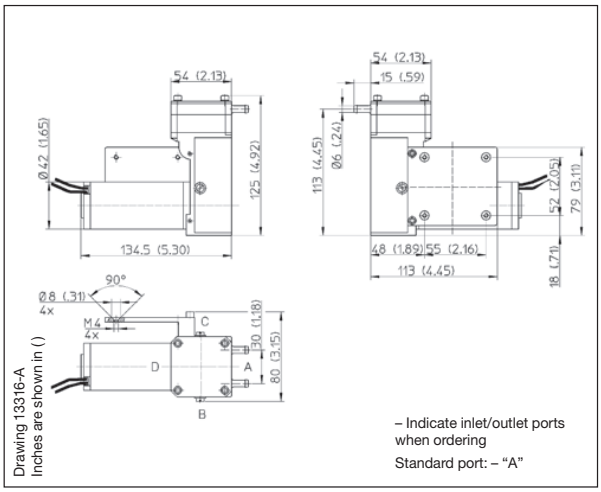
Diaphragm Pump 7015 DC

Flow	**14,0 l/min**
Max. pressure	**2,5 bar**
Max. vacuum	**80 %**

OIL-LESS



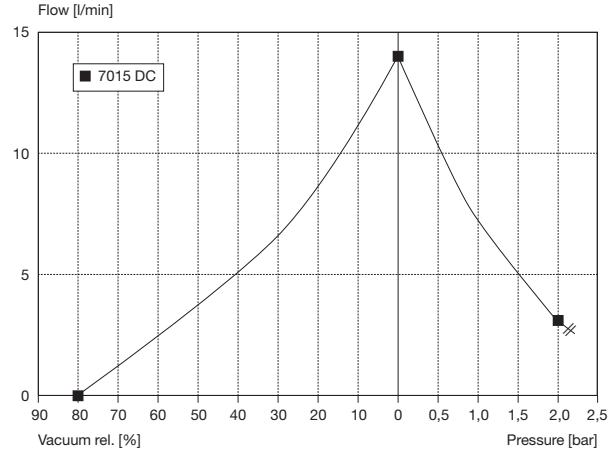
Pneumatic Data			
Description		7015VD/2,5/V/DC	7015VD/2,5/V/DC
Part number	12 V DC	70152005	
	24 V DC		70152006
Max. flow		14,0 l/min	14,0 l/min
Max. intermittent duty		2,5 bar	2,5 bar
Max. continuous pressure		1 bar	1 bar
Max. restart pressure		Ambient pressure*	Ambient pressure*
Max. vacuum		80 %	80 %
Max. continuous vacuum		80 %	80 %
Max. restart vacuum		Ambient pressure*	80 %

Electrical Data		
Motor type	Direct current	Direct current
Nominal voltage	12/24 V DC	12/24 V DC
Nominal speed	2800 rpm	2800 rpm
Current consumption	2,2/0,91 A	2,2/0,91 A
Starting current	8,7/5,3 A	8,7/5,3 A
Power consumption	27 W	27 W
Motor insulation class	E	E
Protection class	IP20	IP20

General Data		
Ambient temperature	15 to 40 °C	15 to 40 °C
Media temperature	15 to 60 °C	15 to 60 °C
Weight	1,1 kg	1,1 kg
Port direction	A	A

* Part numbers change when restart is required with vacuum or pressure.

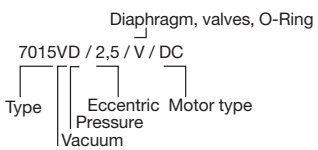
Flow Curves



Wetted parts	
Pump head	Polyarylamide
Diaphragm, valves, O-Ring	FPM (V)
Diaphragm, plate, screw	Galvanized steel

Options
PPS
EPDM, PTFE

Model key:



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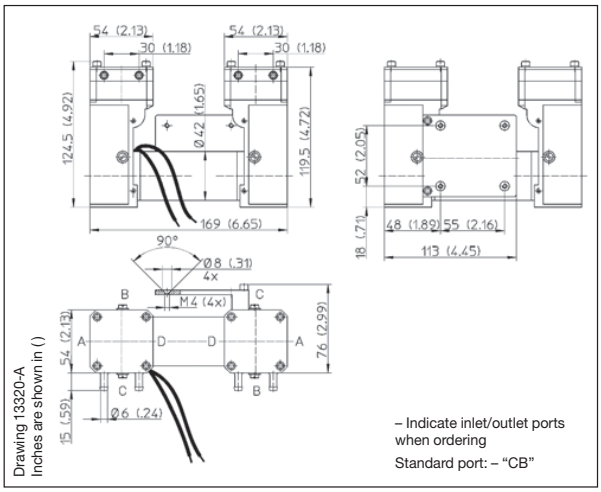
Diaphragm Pump 7015Z DC

Flow	**25,0 l/min**
Max. pressure	**2,5 bar**
Max. vacuum	**95 %**

OIL-LESS



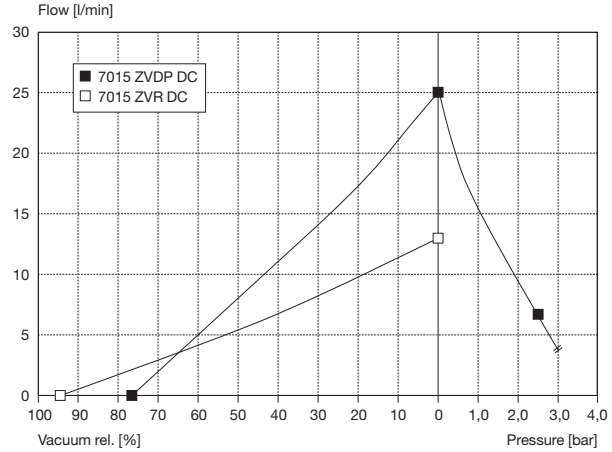
Pneumatic Data			
Description		7015ZVDP/2,5/V/DC	7015ZVR/2,5/V/DC
Part number	12 V DC	70152009	70152015
	24 V DC	70152010	70152016
Max. flow		25,0 l/min	12,0 l/min
Max. intermittent duty		2,5 bar	
Max. continuous pressure		1,0 bar	
Max. restart pressure		Ambient pressure*	
Max. vacuum		80 %	95 %
Max. continuous vacuum		80 %	95 %
Max. restart vacuum		80 %	95 %

Electrical Data		
Motor type	Direct current	Direct current
Nominal voltage	12/24 V DC	12/24 V DC
Nominal speed	2800 rpm	2800 rpm
Current consumption	6,0/3,0 A	6,0/3,0 A
Starting current	18,0/9,0 A	18,0/9,0 A
Power consumption	72 W	72 W
Motor insulation class	E	E
Protection class	IP20	IP20

General Data		
Ambient temperature	15 to 40 °C	15 to 40 °C
Media temperature	15 to 60 °C	15 to 60 °C
Weight	1,5 kg	1,5 kg
Port direction	CB	CB
Configuration	Parallel	Series

* Part numbers change when restart is required with vacuum or pressure.

Flow Curves



Wetted parts	
Pump head	Polyarylamide
Diaphragm, valves, O-Ring	FPM (V)
Diaphragm, plate, screw	Galvanized steel

Options
PPS
EPDM, PTFE

Model key:

Double head P = Parallel
R = Series
Diaphragm, valves, O-Ring
7015ZVDP / 2,5 / V / DC
Type
Eccentric
Pressure
Vacuum
Motor type

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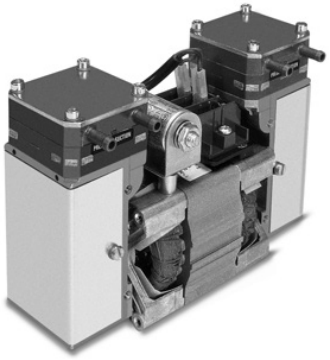
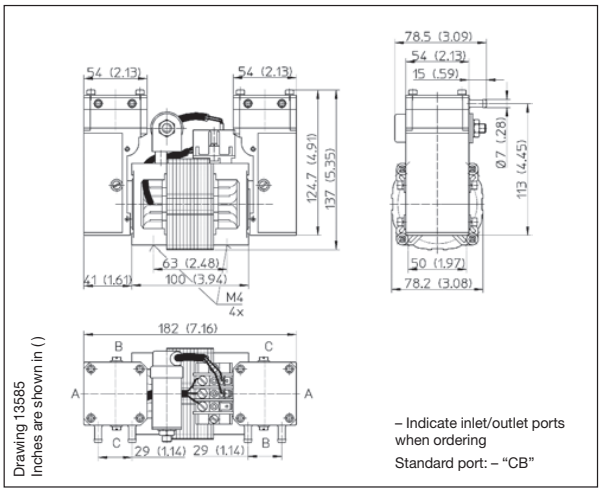
Diaphragm Pump 7015Z AC

Flow	**22,0 l/min**
Max. pressure	**2,5 bar**
Max. vacuum	**90 %**



OIL-LESS



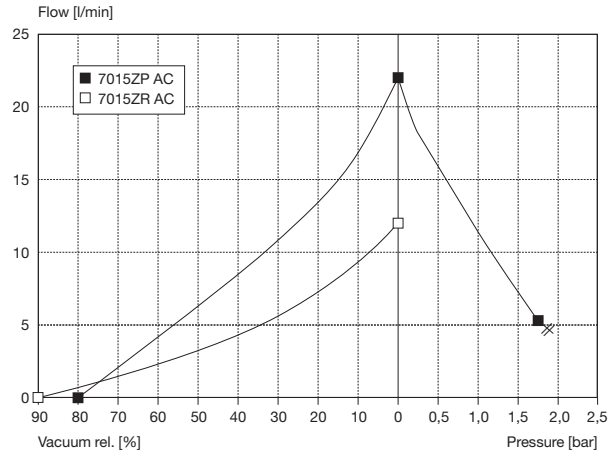
Pneumatic Data			
Description		7015ZVDP/2,5/V/AC	7015ZVR/2,5/EVV/AC
Part number	230 V/50 Hz	70152008	70150132
Max. flow		22,0 l/min	12,0 l/min
Max. intermittent duty		2,5 bar	
Max. continuous pressure		1,0 bar	
Max. restart pressure		Ambient pressure*	
Max. vacuum		80%	90%
Max. continuous vacuum		80%	90%
Max. restart vacuum		Ambient pressure*	90%

Electrical Data		
Motor type	Capacitor	Capacitor
Nominal voltage	230 V/50 Hz	230 V/50 Hz
Nominal speed	2700 rpm	2700 rpm
Current consumption	0,38 A	0,38 A
Starting current	0,5 A	0,5 A
Power consumption	67 W	67 W
Motor insulation class	B	B
Protection class	IP00	IP00

General Data		
Ambient temperature	15 to 40 °C	15 to 40 °C
Media temperature	15 to 40 °C	15 to 40 °C
Weight	2,4 kg	2,4 kg
Port direction	CB	CB
Configuration	Parallel	Series

* Part numbers change when restart is required with vacuum or pressure.

Flow Curves



Wetted parts	
Pump head	Polyarylamide
Diaphragm, valves, O-Ring	FPM (V), EPDM
Diaphragm, plate, screw	Galvanized steel

Options
PPS
PTFE

Model key:

Double head P = Parallel
R = Series
Diaphragm, valves, O-Ring
7015ZVDP / 2,5 / V / AC
Type
Pressure
Vacuum
Eccentric
Motor type

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References

Material choice for 7010 / 7011 / 7015 single and double head

Diaphragm, valves, O-Rings	Abbreviation	Air inert gases	Air aggressive	Ozone	Gases Humid aggressive	Alcohols gas	Temperature limits °C
NBR	N	+	0	–	–	–	-10/+90
EPDM	E	+	+/0	+	+/0	+/0	-20/+90
FKM/FPM	V	+	+	0	+/0	–/0	+15/200
FFKM/FFPM	K	+	+	+	+	+	200
PTFE	P	+	+	+	+	+	250
Pump chamber, Pump head, Fixating plate (Diaphragm plate)							
Polyarylamide		+	0	0	0	+	130
PVDF		+	+	+	+	+	90
PVC		+	+	+	+	+	80
PA		+	0	–	0	0	90
PPS		+	+	+	+	+	160
Stainless steel 1.4571	VA	+	+	+	0	+	
Aluminium (7015)		+	0/–	+	–	+	

Exact data can be obtained on request. We recommend tests with materials in case of critical or unclear applications.

+ = good
0 = critical, tests necessary
– = not recommended

Abbreviations:

"P" = Parallel connections of several single heads
"R" = Serial connections of several single heads
"V" = Vacuum restart
"D" = Pressure restart
"Z" = Double head version (Note: type 7011 already has two heads, therefore type 7011Z is a 4 – headed pump)

Additional descriptions:

The additives "D" and "V" are only relevant for the restart against pressure/vacuum.
Every version can build pressure and vacuum restart against atmospheric pressure.

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