

Diaphragm Pumps

MODELS



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



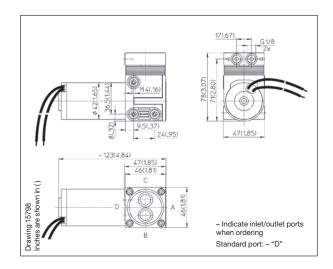


Diaphragm Pump 7006 DC

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





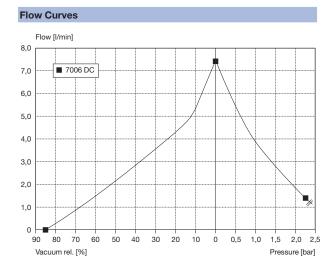


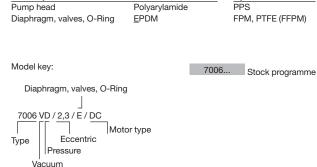
Pneumatic Data		
Description		7006VD/2,3/E/DC
Part number	12 V DC	70060050
	24 V DC	70060052
Max. flow		7,5 l/min
Max. intermittent	duty	2,5 bar
Max. continuous p	oressure	0,8 bar
Max. restart press	sure	2,5 bar
Max. vacuum		85 %
Max. continuous v	/acuum	85 %
Max. restart vacuu	um	85 %

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	В	
Protection class	IP20	

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

Wetted parts





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 oftered 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, quarantee or assume any obligation or liability in connection with this information.



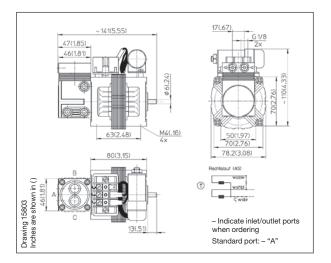
Options

Diaphragm Pump 7006 AC

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



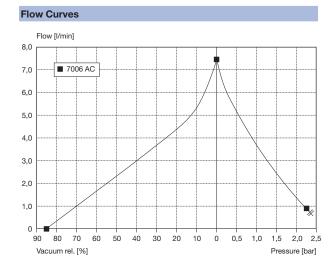




Pneumatic Data			
Description		7006VD/2,3/E/AC	
Part number	230 V/50 Hz	70060053	
Max. flow		7,5 l/min	
Max. intermittent		2,5 bar	
Max. continuous p	oressure	0,8 bar	
Max. restart press	sure	2,5 bar	
Max. vacuum		85 %	
Max. continuous v	vacuum	85 %	
Max. restart vacuu	um	85 %	

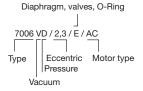
Electrical Data	
Motor type	Capacitor
Nominal voltage	230 V/50 Hz
Nominal speed	2800 rpm
Current consumption	0,5 A
Starting current	0,7 A
Power consumption	20 W
Motor insulation class	F
Protection class	IP00
Thermal switch	150 °C

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



Wetted partsOptionsPump headPolyarylamidePPSDiaphragm, valves, O-RingEPDMFPM, PTFE (FFPM)

Model key:



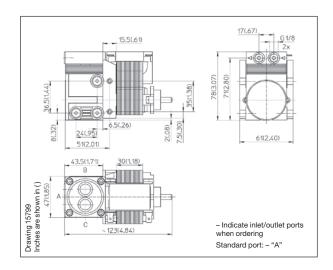


Diaphragm Pump 7006 AC

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





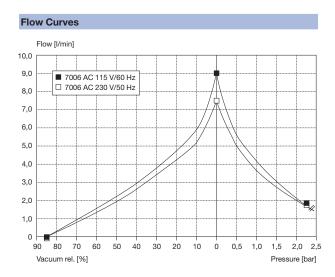


Pneumatic Data			
Description		7006VD/2,3/E/AC	7006VD/2,3/E/AC
Part number	115 V/60 Hz	70060063	
	230 V/50 Hz		70060051
Max. flow		9,0 l/min	7,5 l/min
Max. intermittent	duty	2,5 bar	2,5 bar
Max. continuous p	oressure	0,8 bar	0,8 bar
Max. restart press	sure	Ambient pressure*	Ambient pressure*
Max. vacuum		85 %	85 %
Max. continuous v	/acuum	85 %	85 %
Max. restart vacuu	um	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	Н	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	А	A	

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



Wetted parts Pump head	Polyarylamide	<u>O</u> p	otions PS
Diaphragm, valves, O-Ring	<u>E</u> PDM		PM, PTFE (FFPM)
Model key:		7006	Stock programme
Diaphragm, valves, O-Ring 7006 VD / 2,3 / E / AC Type Eccentric Motor type Vacuum	oe		

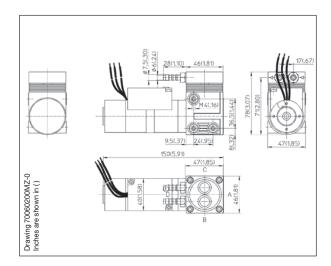


Diaphragm Pump 7006 BLDC

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







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 p	oressure	0,8 bar
Max. restart press	ure	Ambient pressure*
Max. vacuum		85 %
Max. continuous v	/acuum	85 %
Max. restart vacuu	ım	85 %

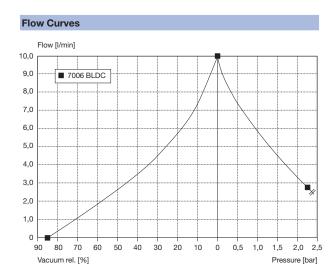
Electrical Data		Wiring	g diagram		
Motor type	Brushless		Function	Colour	Control
Nominal voltage	12/24 V DC	Pin 1	V Supply	Red	12 VDC (max. voltage range: 1016 VDC) 24 VDC (max. voltage range: 1028 VDC)
Nominal speed	1000/3500 rpm ⁽¹⁾	Pin 2	Ground	Black	Ground
Current consumption	3,9/2,1 A	Pin 3	Speed Control	Brown	012 VDC (03500 rpm) 024 VDC (03500 rpm)
Starting current	10,4 A				024 VDC (03500 rpm)
Power consumption	28 W	,	•	•	
Motor insulation class	Е				
Protection class	IP20				

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.

[©] Flow at 3500 rpm.

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



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

Model key:

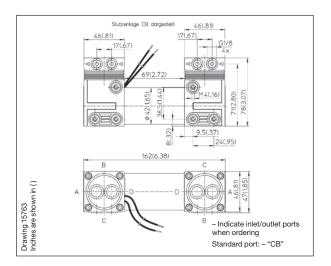
Diaphragm, valves, O-Ring 7006 VD / 2,3 / E / BLDC Eccentric Motor type Pressure



Diaphragm Pump 7006ZP/ZVR DC

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



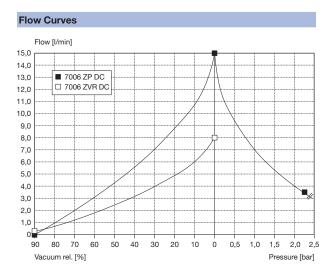


Pneumatic Data			
Description		7006ZVDP/2,3/E/DC	7006ZVR/2,3/E/DC
Part number	12 V DC	70060054	70060057
	24 V DC	70060055	70060058
Max. flow		15,0 l/min	8,0 l/min
Max. intermittent	duty	2,5 bar	
Max. continuous p	ressure	0,8 bar	
Max. restart press	ure	2,5 bar	
Max. vacuum		85 %	95 %
Max. continuous v	acuum/	85 %	95 %
Max. restart vacuu	ım	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	В	В
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	СВ	DD	
Configuration	Parallel	Series	

Wetted parts



Pump head	Polyarylamide	PPS
Diaphragm, valves, O-Ring	<u>E</u> PDM	FPM, PTFE (FFKM)
Model key:		7006 Stock programme
Double head Diaphragm, va	lves, O-Ring tor type	
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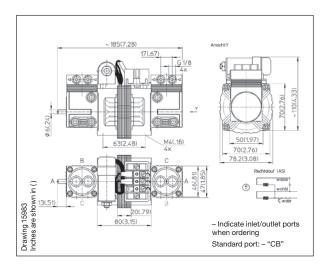
Options

Diaphragm Pump 7006ZP AC

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







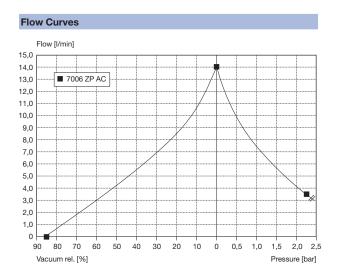
Pneumatic Data			
Description		7006ZVDP/2,3/E/AC	
Part number	230 V/50 Hz	70060056	
Max. flow		14,0 l/min	
Max. intermittent duty		2,5 bar	
Max. continuous pressure		0,8 bar	
Max. restart pressure		Ambient pressure*	
Max. vacuum		85 %	
Max. continuous vacuum		85 %	
Max. restart vacuum		85 %	

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	СВ	
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 %.



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

Model key:

Double head Diaphragm, valves, O-Ring

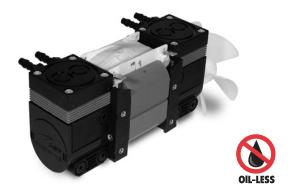
| P = Parallel |
R = Series |
7006ZVDP / 2,3 / E / AC |
| Pressure | Motor type

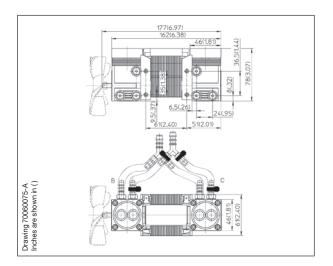
Type Vacuum Eccentric



Diaphragm Pump 7006ZP AC

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



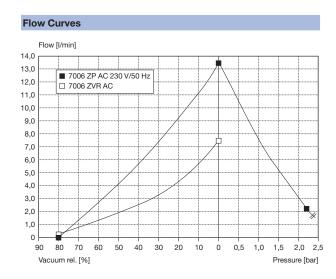


Pneumatic Data				
Description		7006ZVDP/2,3/E/AC	7006ZVR/2,3/E/AC	
Part number	230 V/50 Hz	70060075	70060076	
Max. flow		13,5 l/min	7,5 l/min	
Max. intermittent duty		2,5 bar		
Max. continuous pressure		0,8 bar		
Max. restart pressure		Ambient pressure		
Max. vacuum		85 %	95 %	
Max. continuous vacuum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

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



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 |
| Pressure | Motor type

Type Vacuum Eccentric

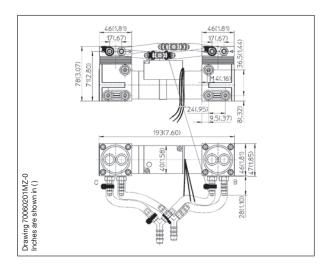


Diaphragm Pump 7006ZP/ZVR BLDC

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







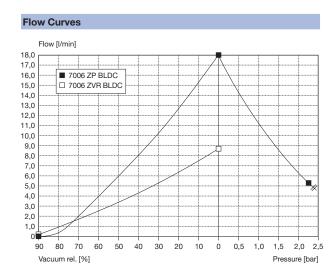
Pneumatic Data			
Description		7006ZVDP/2,3/E/BLDC	7006ZVR/2,3/E/BLDC
Part number	12 V DC	70060201	70060074
	24 V DC	70060016	70060073
Max. flow		18,0 l/min ⁽²⁾	8,7 l/min ⁽²⁾
Max. intermittent duty		2,5 bar	
Max. continuous p	ressure	0,5 bar	
Max. restart press	ure	Ambient pressure*	
Max. vacuum		85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

Electrical Data			Wiring diagram
Motor type	Brushless	Brushless	Function Colour Control
Nominal voltage	12/24 V DC	12/24 V DC	Pin 1 V Supply Red 12 VDC
Nominal speed	1000/3500 rpm ⁽¹⁾	1000/3500 rpm ⁽¹⁾	(max. voltage range: 1016 VDC
Current consumption	3,9/2,1 A	3,9/2,1 A	(max. voltage range: 1028 VDC
Starting current	10,5 A	10,5 A	Pin 2 Ground Black Ground
Power consumption	50 W	30 W	Pin 3 Speed Brown 012 VDC (03500 rpm) Control 024 VDC (03500 rpm)
Motor insulation class	Е	Е	Control 024 VDC (03500 rpm)
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	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.



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

Model key:

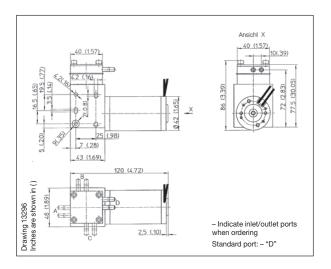


Diaphragm Pump 7010 DC

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





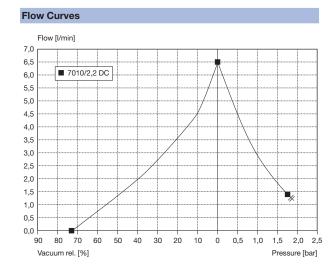


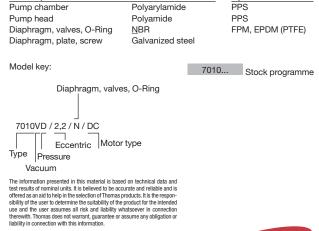
Pneumatic Data			
Description		7010VD/2,2/N/DC	
Part number	12 V DC	70102502	
	24 V DC	70102514	
Max. flow		6,5 l/min	
Max. intermittent	duty	2,2 bar	
Max. continuous p	oressure	1,0 bar	
Max. restart press	sure	1,0 bar	
Max. vacuum		73 %	
Max. continuous v	/acuum	73 %	
Max. restart vacuu	um	73 %	

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	

Wetted parts







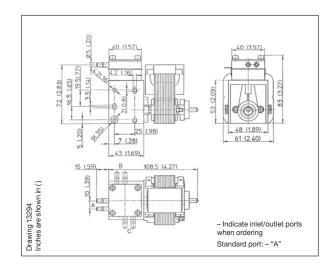
Options

Diaphragm Pump 7010 AC

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





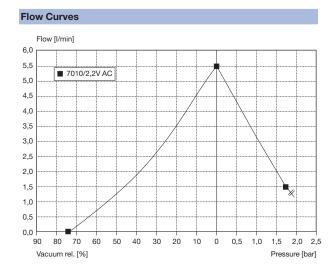


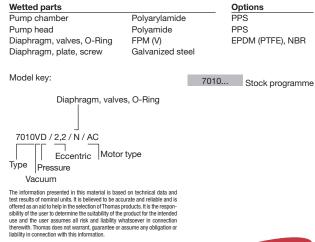
Pneumatic Data			
Description		7010VD/2,2/V/AC	
Part number	230 V/50 Hz	70102532	
Max. flow		5,5 l/min	
Max. intermittent	duty	2,3 bar	
Max. continuous p	oressure	1,2 bar	
Max. restart press	ure	Ambient pressure*	
Max. vacuum		73 %	
Max. continuous v	/acuum	73 %	
Max. restart vacuu	ım	Ambient pressure*	

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.





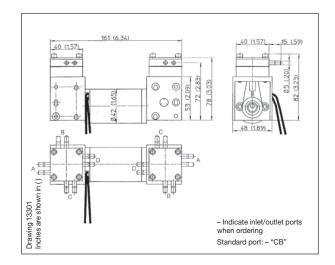


Diaphragm Pump 7010Z DC

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





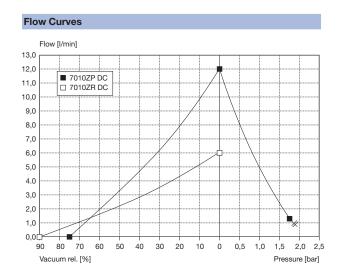


Pneumatic Data				
Description		7010ZDP/2,2/NVN/DC	7010ZVR/2,2/NVN/DC	
Part number	12 V	70102167		
	24 V	70102133	70100043	
Max. flow		12,0 l/min	6,0 l/min	
Max. intermittent	duty	2,0 bar		
Max. continuous p	oressure	0,8 bar		
Max. vacuum		75 %	90 %	
Max. continuous v	vacuum	75 %	90 %	
Max. restart vacuu	um	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	СВ	CB	
Configuration	Parallel	Series	

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



Wetted parts	Options	
Pump chamber	Polyarylamide	PPS
Pump head	Polyamide	PPS
Diaphragm, valves, O-Ring Diaphragm, plate, screw	FPM (V), <u>N</u> BR Galvanized steel	EPDM, PTFE

Model key:

Double head Diaphragm, valves, O-Ring

| P = Parallel | R = Series | |
| 7010ZDP / 2,2 / NVN / DC | |
| Type Pressure Eccentric Motor type

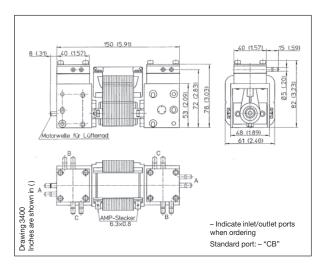


Diaphragm Pump 7010Z AC

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





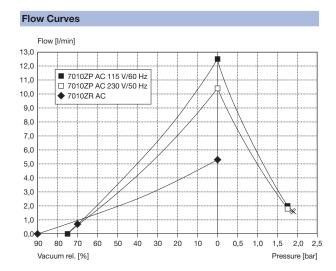


Pneumatic Data				
Description		7010ZVDP/2,2/N/AC	7010ZVDP/2,2/NVN/AC	7010ZVR/2,2/NVN/AC
Part number	115 V/60 Hz	70101813		
	230 V/50 Hz		70100196	70100448
Max. flow		12,5 l/min	10,4 l/min	5,3 l/min
Max. intermittent of	duty	2,0 bar	2,3 bar	
Max. continuous p	pressure	0,8 bar	0,8 bar	
Max. restart press	ure	Ambient pressure*	Ambient pressure*	
Max. vacuum		75 %	75 %	90 %
Max. continuous v	/acuum	75 %	75 %	90 %
Max. restart vacuu	ım	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	В	В	В	
Protection class	IP00	IP00	IP00	
Thermal switch	130 °C	no	no	

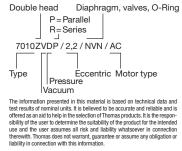
General Data				
Ambient temperature	15 to 40 °C	15 to 40 °C	15 to 40 °C	
Media temperature	15 to 40 °C	15 to 40 °C	15 to 60 °C	
Weight	1,45 kg	1,45 kg	1,45 kg	
Port direction	СВ	СВ	CB	
Configuration	Parallel	Parallel	Series	

 $^{^{\}star}$ Part numbers change when restart is required with vacuum or pressure.



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:

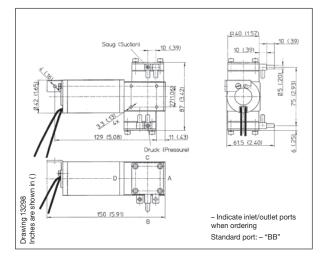


THOMAS
by Gardner Denver

Diaphragm Pump 7011 DC

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



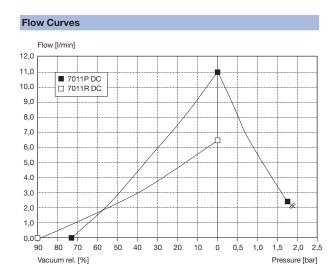


Pneumatic Data			
Description		7011VDP/2,2/NVN/DC	7011VR/2,2/N/DC
Part number	12 V DC	70110008	70110252
	24 V DC	70110042	
Max. flow		11,0 l/min	6,5 l/min
Max. intermittent of	duty	2,3 bar	
Max. continuous p	ressure	0,8 bar	
Max. restart press	ure	Ambient pressure*	
Max. vacuum		73 %	90 %
Max. continuous v	acuum acuum	73 %	90 %
Max. restart vacuu	ım	Ambient pressure*	90 %

Direct current	Direct current
12/24 V DC	12/24 V DC
3100 rpm	3100 rpm
2,0/1,0 A	1,7 A
4,5/3,5 A	4,5 A
24 W	20 W
E	E
IP20	IP20
	12/24 V DC 3100 rpm 2,0/1,0 A 4,5/3,5 A 24 W E

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.



Wetted parts Pump chamber	Polyarylamide		ptions PS
Pump head	Polyamide		PS
Diaphragm, valves, O-Ring	FPM (V), <u>N</u> BR	E	PDM, 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

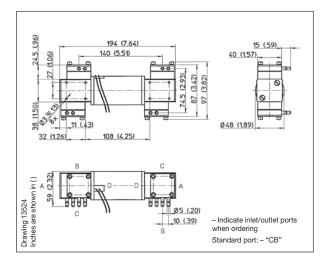
| Type Pressure Eccentric Motor type



Diaphragm Pump 7011Z DC

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



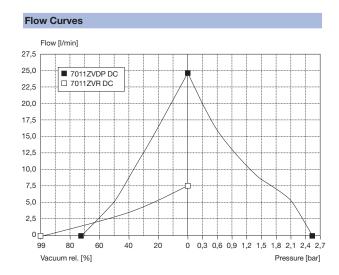


Pneumatic Data			
Description		7011ZVDP/2,2/VVN/DC	7011ZVR/2,2/VVN/DC
Part number	12 V DC	70110520	70110037
	24 V DC	70110521	70110069
Max. flow		24,0 l/min	7,5 l/min
Max. intermittent	duty	2,5 bar	
Max. continuous p	oressure	0,5 bar	
Max. restart press	ure	Ambient pressure*	
Max. vacuum		73 %	98 %
Max. continuous v	/acuum	73 %	98 %
Max. restart vacuu	ım	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	

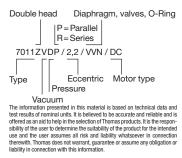
General Data			
Ambient temperature	15 to 40 °C	15 to 40 °C	
Media temperature	15 to 60 °C	15 to 60 °C	
Weight	1,4 kg	1,4 kg	
Port direction	СВ	CB	
Configuration	Parallel	Series	

 $^{^{\}star}$ Part numbers change when restart is required with vacuum or pressure.



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:



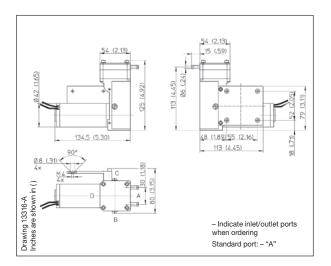


Diaphragm Pump 7015 DC

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





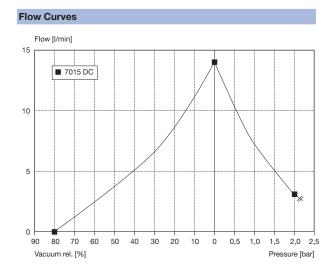


Pneumatic Data			
Description		7015VD/2,5/V/DC	7015VD/2,5/V/DC
Part number	12 V DC	70152005	
	24 V DC		70152006
Max. flow		14,0 l/min	14,0 l/min
Max. intermittent	duty	2,5 bar	2,5 bar
Max. continuous p	oressure	1 bar	1 bar
Max. restart press	ure	Ambient pressure*	Ambient pressure*
Max. vacuum		80 %	80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



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

Model key:



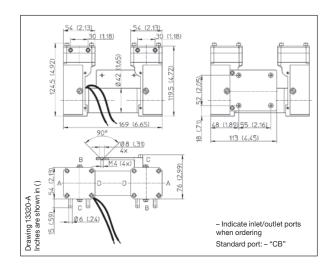


Diaphragm Pump 7015Z DC

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





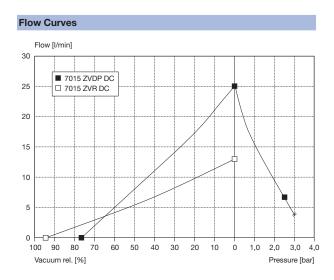


Pneumatic Data			
Description		7015ZVDP/2,5/V/DC	7015ZVR/2,5/V/DC
Part number	12 V DC	70152009	70152015
	24 V DC	70152010	70152016
Max. flow		25,0 l/min	12,0 l/min
Max. intermittent duty		2,5 bar	
Max. continuous pressure		1,0 bar	
Max. restart pressure		Ambient pressure*	
Max. vacuum		80 %	95 %
Max.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

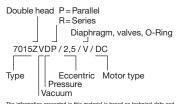
General Data					
Ambient temperature	15 to 40 °C	15 to 40 °C			
Media temperature	15 to 60 °C	15 to 60 °C			
Weight	1,5 kg	1,5 kg			
Port direction	CB	СВ			
Configuration	Parallel	Series			

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



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

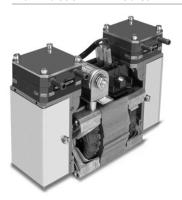
Model key:



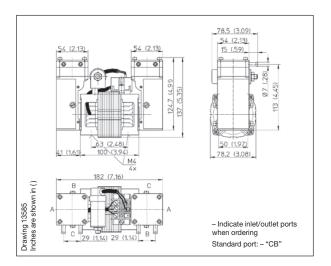


Diaphragm Pump 7015Z AC

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





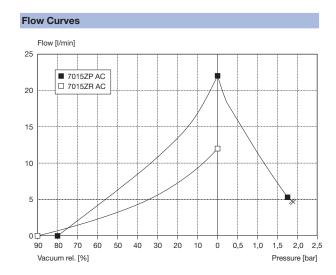


Pneumatic Data				
Description		7015ZVDP/2,5/V/AC	7015ZVR/2,5/EVV/AC	
Part number	Part number 230 V/50 Hz		70150132	
Max. flow		22,0 l/min	12,0 l/min	
Max. intermittent duty		2,5 bar		
Max. continuous pressure		1,0 bar		
Max. restart pressure		Ambient pressure*		
Max. vacuum		80%	90%	
Max. continuous 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	В	В
Protection class	IP00	IP00

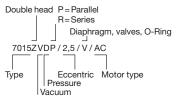
General Data			
Ambient temperature	15 to 40 °C	15 to 40 °C	
Media temperature	15 to 40 °C	15 to 40 °C	
Weight	2,4 kg	2,4 kg	
Port direction	CB	СВ	
Configuration	Parallel	Series	

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



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

Model key:





References

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

	Abbreviation	Air	Air	Ozone	Gases	Alcohols	Temperature limits
Diaphragm, valves, O-Rings		inert gases	aggressive		Humid aggressive	gas	°C
NBR	N	+	0	-	-	-	-10/+90
EPDM	Е	+	+/0	+	+/0	+/0	-20/+90
FKM/FPM	V	+	+	0	+/0	-/0	+15/200
FFKM/FFPM	K	+	+	+	+	+	200
PTFE	Р	+	+	+	+	+	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.

