

### MODELS

# WOB-L<sup>™</sup> Piston Air Compressors and Vacuum Pumps



### **FEATURES**

- Service free and oil-less
- Compact design
- Balanced for smooth, low vibration operation
- Suitable for continuous running
- Wetted parts
  - Series 8003/8005/8006 heat resistant high performance plastic, Elastomer valves
  - Series 8009
     corrosion resistant aluminium parts, stainless steel valves
  - Long-life, high performance piston seal (PTFE compound)

### **TYPICAL APPLICATIONS**

- Medical industry
- Laboratory and Analysis technology
- Automotive
- Equipment manufacturing

Consult factory for customized solutions

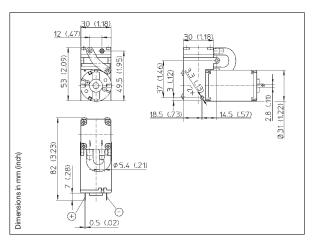




### WOB-L Piston Compressor 8003D DC

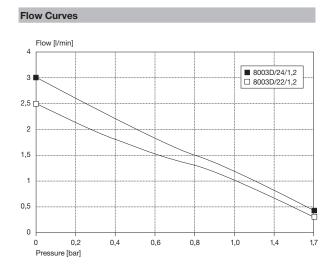
| Flow          | 3,0 l/min |  |  |  |
|---------------|-----------|--|--|--|
| Max. pressure | 2,0 bar   |  |  |  |
|               |           |  |  |  |
|               |           |  |  |  |



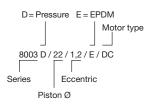


| Pneumatic Data         |         |                   |                   |
|------------------------|---------|-------------------|-------------------|
| Description            |         | 8003D/22/1,2/E/DC | 8003D/24/1,2/E/DC |
|                        | 12 V DC | 80030054          | 80030055          |
|                        | 24 V DC | 80030057          | 80030058          |
| Max. flow              |         | 2,5 l/min         | 3,0 l/min         |
| Max. pressure          |         | 2,0 bar           | 2,0 bar           |
| Max. continuous pres   | sure    | 1,0 bar           | 0,8 bar           |
| Max. restart pressure  |         | 1,0 bar           | 0,8 bar           |
| Electrical Data        |         |                   |                   |
| Motor type             |         | Direct current    | Direct current    |
| Nominal voltage        |         | 12 V/24 V DC      | 12 V/24 V DC      |
| Nominal speed          |         | 3000 rpm          | 3000 rpm          |
| Power consumption      |         | 7,5 W             | 8,5 W             |
| Motor insulation class | 3       | А                 | A                 |
| General Data           |         |                   |                   |
| Ambient temperature    |         | 10 to 40 °C       | 10 to 40 °C       |
| Media temperature      |         | 10 to 60 °C       | 10 to 60 °C       |
| Weight                 |         | 0,19 kg           | 0,19 kg           |
| Port direction         |         | D                 | D                 |

All listed values measured at standard atmospheric conditions.



#### Model key:



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8003... Stock programme

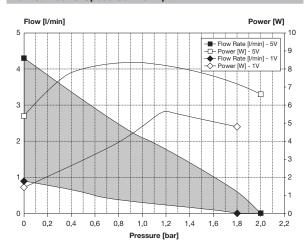
Option:

Low cost DC-motor

### WOB-L Piston Compressor 8003D BLDC

| Flow          | 4,3 l/min |          |                         | [1.181]<br>   |  |
|---------------|-----------|----------|-------------------------|---|--|
| Max. pressure | 2,0 bar   |          |                         | [0,472]<br>12   |  |
| e             |           |          |                         | 13,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,2007<br>10,200 |  |
|               | 5         |          | [inch]                  |   | (0.748)<br>(0.748)<br>(0.748)<br>(0.748)<br>(0.571)<br>(0.571) |
| 0             |           | OIL-LESS | Dimensions in mm [inch] | for turbing<br>10 0 2mm<br>[0.213]<br>0 0213]   |  |

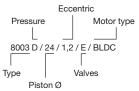
| Pneumatic Data               |                         |                                   |               |                 |          |   |
|------------------------------|-------------------------|-----------------------------------|---------------|-----------------|----------|---|
| Description                  |                         | 8003D/24/1,2                      | /E/BLDC       |                 |          |   |
| Part number                  | 12 V DC                 | 80030802                          |               |                 |          |   |
|                              | 24 V DC                 | 80030803                          |               |                 |          |   |
| Max. flow                    |                         | 4,3 l/min                         |               |                 |          |   |
| Max. pressure                |                         | 2,0 bar                           |               |                 |          |   |
| Max. continuous p            | ressure                 | 1,0 bar                           |               |                 |          |   |
| Max. restart press           | ure                     | 2,0 bar                           |               |                 |          |   |
| Electrical Data              |                         |                                   |               |                 |          |   |
| Motor type                   |                         | Brushless DC                      |               |                 |          |   |
| Nominal speed                |                         | 04.600 rpm                        |               |                 |          |   |
| Nominal voltage              |                         | 12/24 V DC                        |               |                 |          |   |
| Drive electronics            |                         | integrated wit                    | h reverse sup | oply voltage pr | otection |   |
| Max. power consumption 8,5 W |                         |                                   |               |                 |          |   |
| Motor insulation c           | ass                     | В                                 |               |                 |          |   |
| Protection class             |                         | IP20                              |               |                 |          |   |
| Connector                    | Housing:                | Molex KK 22-                      | <u> </u>      |                 |          |   |
|                              | Terminal:               | Molex KK 08-                      | 50-0031       |                 |          |   |
| Wiring diagram               | _                       |                                   |               | Function        | Colour   | Control   |
|                              | Optional: Adapter 1     | for 2-wire duty<br>entiometer for | Pin 1         | V Supply        | Red      | 12 VDC (max. voltage range: 1018 VDC)<br>24 VDC (max. voltage range: 1028 VDC)            |
|                              |                         | ljustment                         | Pin 2         | Ground          | Black    | Ground for Vsupply (PIN 1) and Speed Control (PIN3)                                       |
|                              | speed ac                | IJUSTITIETIT                      | Pin 3         | Speed control   | White    | analog: 05 VDC (max. 28V)<br>PWM: 620 kHz - 1496%<br>Speed voltage input threshold: 0,2 V |
| General Data                 |                         |                                   | Pin 4         | Tacho out       | Green    | 18 pulses per revolution  |
|                              | Ambient temperature 154 |                                   |               |                 |          | Pulse time "LOW": 195 µs<br>Output level "LOW": 0 / max. 0,5 V                            |
| Media temperature            | Э                       | 1540°C                            |               |                 |          | Output level "HIGH": min. 4 V / max. 5 V  |
| Weight                       |                         | 160 g                             |               |                 |          |   |
| Port direction               |                         | D                                 |               |                 |          |   |



#### Flow Curves vs. Speed Control Input

| Wetted Parts    |            |
|-----------------|------------|
| Pump head       | PAA (IXEF) |
| Cylinder sleeve | PPS        |
| Piston sealing  | PTFE       |
| Valves          | EPDM       |

Model key:



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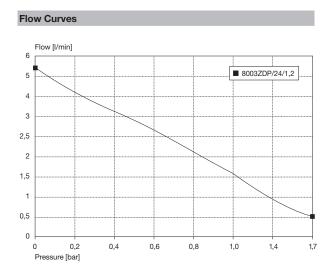


### WOB-L Piston Compressor 8003ZDP DC

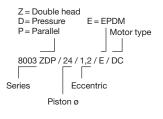
| Flow          | 5,4 l/min | 40 (158) <sup>2</sup>   |
|---------------|-----------|-------------------------|
| Max. pressure | e 2,0 bar | 30 (1.18) 5             |
|               |           | 18.5 (73)<br>126 (4.96) |
|               | OIL-LES   |                         |

| Pneumatic Data         |         |                     |
|------------------------|---------|---------------------|
| Description            |         | 8003ZDP/24/1,2/E/DC |
| Part number            | 12 V DC | 80030300            |
| Max. flow              |         | 5,4 I/min           |
| Max. pressure          |         | 2,0 bar             |
| Max. continuous press  | ure     | 0,3 bar             |
| Max. restart pressure  |         | 0,5 bar             |
|                        |         |                     |
| Electrical Data        |         |                     |
| Motor type             |         | Direct current      |
| Nominal voltage        |         | 12 V DC             |
| Nominal speed          |         | 2800 rpm            |
| Power consumption      |         | 13 W                |
| Motor insulation class |         | E                   |
|                        |         |                     |
| General Data           |         |                     |
| Ambient temperature    |         | 10 to 40 °C         |
| Media temperature      |         | 10 to 60 °C         |
| Weight                 |         | 0,35 kg             |
| Port direction         |         | CB                  |
| Configuration          |         | Parallel            |

All listed values measured at standard atmospheric conditions.



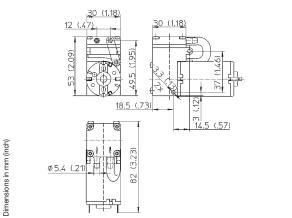
#### Model key:





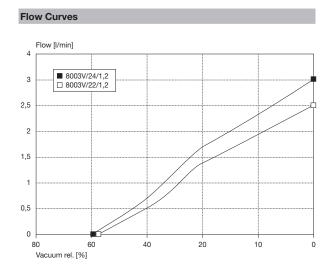
## WOB-L Piston Vacuum Pump 8003V DC



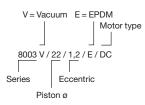


| Pneumatic Data         |         |                   |                   |
|------------------------|---------|-------------------|-------------------|
| Description            |         | 8003V/22/1,2/E/DC | 8003V/24/1,2/E/DC |
|                        | 12 V DC | 80030067          | 80030068          |
|                        | 24 V DC | 80030071          | 80030072          |
| Max. flow              |         | 2,5 l/min         | 3,0 l/min         |
| Max. vacuum            |         | 58 %              | 59 %              |
| Max. restart vacuum    |         | 58 %              | 59 %              |
| Electrical Data        |         |                   |                   |
| Motor type             |         | Direct current    | Direct current    |
| Nominal voltage        |         | 12 V/24 V DC      | 12 V/24 V DC      |
| Nominal speed          |         | 3000 rpm          | 3000 rpm          |
| Power consumption      |         | 5,5 W             | 6 W               |
| Motor insulation class |         | А                 | A                 |
| General Data           |         |                   |                   |
| Ambient temperature    |         | 10 to 40 °C       | 10 to 40 °C       |
| Media temperature      |         | 10 to 60 °C       | 10 to 60 °C       |
| Weight                 |         | 0,19 kg           | 0,19 kg           |
| Port direction         |         | D                 | D                 |

All listed values measured at standard atmospheric conditions.



#### Model key:



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#### USAThomas.com (800) 799-4568 | 3810 Prospect Ave, Ste. A, Yorba Linda, CA 92886

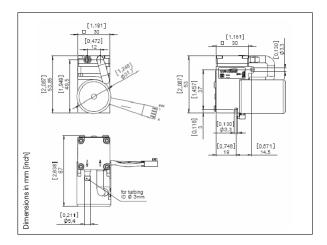
8003... Stock programme

Option: Low cost DC-motor

### WOB-L Piston Vacuum Pump 8003V BLDC

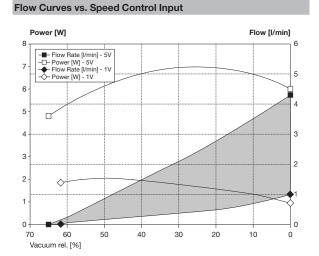
| Flow         | 4,3 l/min   |
|--------------|-------------|
| Final Vacuum | <b>65</b> % |





| Pneumatic Data      |                   |                                   |                |                |                          |   |  |
|---------------------|-------------------|-----------------------------------|----------------|----------------|--------------------------|---|--|
| Description         |                   | 8003V/24/1,2                      | /E/BLDC        |                |                          |   |  |
| Part number         | 12 V DC           | 80030800                          |                |                |                          |   |  |
|                     | 24 V DC           | 80030801                          |                |                |                          |   |  |
| Max. flow           |                   | 4,3 l/min                         |                |                |                          |   |  |
| Max. intermittent v | acuum             | 65 %                              |                |                |                          |   |  |
| Max. continuous va  | acuum             | 65 %                              |                |                |                          |   |  |
| Max. restart vacuu  | m                 | 65 %                              |                |                |                          |   |  |
| Electrical Data     |                   |                                   |                |                |                          |   |  |
| Motor type          |                   | Brushless DC                      | ;              |                |                          |   |  |
| Nominal speed       |                   | 04.600 rpm                        |                |                |                          |   |  |
| Nominal voltage     |                   | 12/24 V DC                        |                |                |                          |   |  |
| Drive electronics   |                   | integrated wit                    | th reverse sup | ply voltage pr | otection                 |   |  |
| Max. power consu    | mption            | 7 W                               |                |                |                          |   |  |
| Motor insulation cl | ass               | В                                 |                |                |                          |   |  |
| Protection class    |                   | IP20                              |                |                |                          |   |  |
| Connector           | Housing:          | Molex KK 22-                      | 01-2045        |                |                          |   |  |
|                     | Terminal:         | Molex KK 08-                      | 50-0031        |                |                          |   |  |
| Wiring diagram      | _                 |                                   |                | Function       | Colour                   | Control   |  |
|                     | Optional: Adapter | for 2-wire duty<br>entiometer for | Pin 1          | V Supply       | Red                      | 12 VDC (max. voltage range: 1018 VDC)<br>24 VDC (max. voltage range: 1028 VDC)            |  |
|                     | speed ac          |                                   | Pin 2          | Ground         | Black                    | Ground for Vsupply (PIN 1) and Speed Control (PIN3)                                       |  |
| -                   | speed ac          | ijustment                         | Pin 3          | Speed control  | White                    | analog: 05 VDC (max. 28V)<br>PWM: 620 kHz - 1496%<br>Speed voltage input threshold: 0.2 V |  |
| General Data        |                   | Pin 4                             | Tacho out      | Green          | 18 pulses per revolution |   |  |
| Ambient temperatu   | ure               | 1540°C                            | .              |                |                          | Pulse time "LOW": 195 µs<br>Output level "LOW": 0 / max. 0,5 V                            |  |
| Media temperature   | 9                 | 1540°C                            |                |                |                          | Output level "HIGH": min. 4 V / max. 5 V  |  |
| Weight              |                   | 160 g                             | _              |                |                          |   |  |
| Port direction      |                   | D                                 |                |                |                          |   |  |

OIL-LES



 Wetted Parts

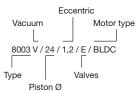
 Pump head
 PAA (IXEF)

 Cylinder sleeve
 PPS

 Piston sealing
 PTFE

Model key:

Valves



<u>E</u>PDM

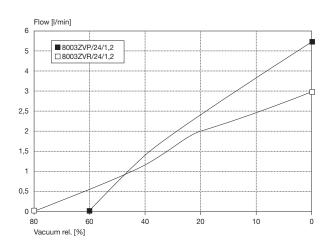


### WOB-L Piston Vacuum Pump 8003ZVR/ZVP DC

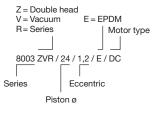
| Flow        | 5,4 l/min | 40 (158) |
|-------------|-----------|----------|
| Max. vacuum | 80 %      |          |
|             |           |          |
|             | OIL-LES   |          |

| Pneumatic Data         |         |                     |                     |
|------------------------|---------|---------------------|---------------------|
| Description            |         | 8003ZVR/24/1,2/E/DC | 8003ZVP/24/1,2/E/DC |
| Part number            | 12 V DC | 80030321            | 80030320            |
| Max. flow              |         | 2,9 l/min           | 5,4 l/min           |
| Max. vacuum            |         | 80 %                | 59 %                |
| Max. restart vacuum    |         | 80 %                | 59 %                |
| Electrical Data        |         |                     |                     |
| Motor type             |         | Direct current      | Direct current      |
| Nominal voltage        |         | 12 V DC             | 12 V DC             |
| Nominal speed          |         | 2800 rpm            | 2800 rpm            |
| Power consumption      |         | 11 W                | 11 W                |
| Motor insulation class | 3       | E                   | E                   |
| General Data           |         |                     |                     |
| Ambient temperature    |         | 10 to 40 °C         | 10 to 40 °C         |
| Media temperature      |         | 10 to 60 °C         | 10 to 60 °C         |
| Weight                 |         | 0,35 kg             | 0,35 kg             |
| Port direction         |         | DD                  | СВ                  |
| Configuration          |         | Series              | Parallel            |
|                        |         |                     |                     |

All listed values measured at standard atmospheric conditions.



#### Model key:



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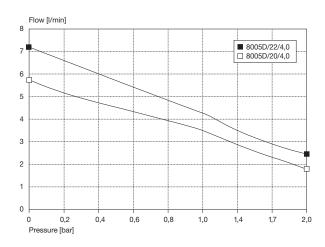
### WOB-L Piston Compressor 8005D DC

| Flow          | 7,2 l/min |          |                         | 117.5 (4.63),           |          |
|---------------|-----------|----------|-------------------------|-------------------------|----------|
| Max. pressure | 2,5 bar   |          |                         | 103 (4.05)<br>40 (1.57) |          |
|               |           | OIL-LESS | Dimensions in mm (inch) |                         | 40 (152) |

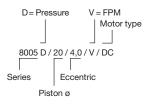
| Pneumatic Data      |          |                   |                   |
|---------------------|----------|-------------------|-------------------|
| Description         |          | 8005D/20/4,0/V/DC | 8005D/22/4,0/V/DC |
| Part number         | 12 V DC  | 80050062          | 80050077          |
|                     | 24 V DC* | 80050064          | 80050079          |
| Max. flow           |          | 5,8 l/min         | 7,2 l/min         |
| Max. pressure       |          | 2,5 bar           | 2,5 bar           |
| Max. continuous p   | oressure | 1,5 bar           | 1,5 bar           |
| Max. restart press  | ure      | 2,5 bar           | 2,3 bar           |
|                     |          |                   |                   |
| Electrical Data     |          |                   |                   |
| Motor type          |          | Direct current    | Direct current    |
| Nominal voltage     |          | 12 V/24 V DC      | 12 V/24 V DC      |
| Nominal speed       |          | 3500/3200 rpm     | 3500/3200 rpm     |
| Power consumption   | on       | 26 W              | 32 W              |
| Motor insulation cl | lass     | E                 | E                 |
| General Data        |          |                   |                   |
|                     |          |                   |                   |
| Ambient temperat    | ure      | 10 to 40 °C       | 10 to 40 °C       |
| Media temperature   | e        | 10 to 60 °C       | 10 to 60 °C       |
| Weight              |          | 1,1 kg            | 1,1 kg            |
| Port direction      |          | D                 | D                 |
|                     |          |                   |                   |

\* Due to a difference in nominal speeds the 24 V DC units have a 10% reduced flow rate when compared to the 12 V DC units.

All listed values measured at standard atmospheric conditions.



#### Model key:



Option: Noise reduced head Brushless DC-motor

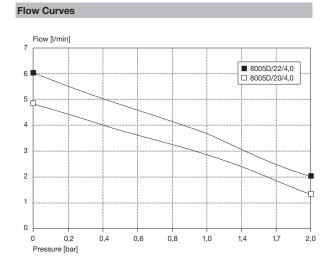


### WOB-L Piston Compressor 8005D AC

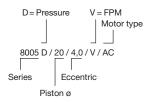
| Flow          | 6,0 l/min |                         |   |
|---------------|-----------|-------------------------|---|
| Max. pressure | 2,5 bar   |                         | <u>109.5 (4.31)</u><br><u>15 (.59)</u> <u>103 (4.05)</u> <u>40 (1.57)</u> |
|               |           | Dimensions in mm (indb) |   |

| Pneumatic Data                |             |                   |                   |
|-------------------------------|-------------|-------------------|-------------------|
| Description                   |             | 8005D/20/4,0/V/AC | 8005D/22/4,0/V/AC |
| Part number                   | 230 V/50 Hz | 80050063          | 80050078          |
| Max. flow                     |             | 4,8 l/min         | 6,0 I/min         |
| Max. pressure                 |             | 2,5 bar           | 2,5 bar           |
| Max. continuous press         | sure        | 1,5 bar           | 1,5 bar           |
| Max. restart pressure         |             | 0,5 bar           | 0,4 bar           |
| Electrical Data               |             |                   |                   |
|                               |             | Shaded pole       | Shaded pole       |
| Motor type<br>Nominal voltage |             | 230 V/50 Hz       | 230 V/50 Hz       |
| Nominal speed                 |             | 2400 rpm          | 2400 rpm          |
| Power consumption             |             | 135 W             | 135 W             |
| Motor insulation class        |             | F                 | F                 |
| Thermal switch                |             | 115 °C            | 115 °C            |
| General Data                  |             |                   |                   |
|                               |             | 10.1 - 10.00      | 101-1000          |
| Ambient temperature           |             | 10 to 40 °C       | 10 to 40 °C       |
| Media temperature             |             | 10 to 40 °C       | 10 to 40 °C       |
| Weight                        |             | 1,1 kg            | 1,1 kg            |
| Port direction                |             | A                 | Α                 |

All listed values measured at standard atmospheric conditions.



#### Model key:

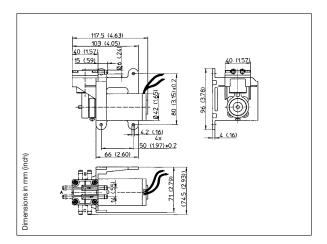




### WOB-L Piston Vacuum Pump 8005V DC

| Flow 7,2       | l/min |
|----------------|-------|
| Max. vacuum 78 | %     |

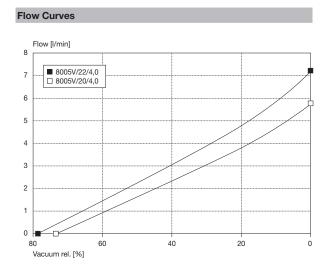




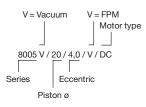
| Pneumatic Data        |          |                   |                   |
|-----------------------|----------|-------------------|-------------------|
| Description           |          | 8005V/20/4,0/V/DC | 8005V/22/4,0/V/DC |
| Part number           | 12 V DC  | 80050034          | 80050039          |
|                       | 24 V DC* | 80050044          | 80050049          |
| Max. flow             |          | 5,8 l/min         | 7,2 l/min         |
| Max. vacuum           |          | 73 %              | 78 %              |
| Max. restart vacuum   |          | 73 %              | 78 %              |
| Electrical Data       |          |                   |                   |
| Motor type            |          | Direct current    | Direct current    |
| Nominal voltage       |          | 12 V/24 V DC      | 12 V/24 V DC      |
| Nominal speed         |          | 3500/3250 rpm     | 3500/3250 rpm     |
| Power consumption     |          | 22 W              | 26 W              |
| Motor insulation clas | S        | E                 | E                 |
| General Data          |          |                   |                   |
| Ambient temperature   | )        | 10 to 40 °C       | 10 to 40 °C       |
| Media temperature     |          | 10 to 60 °C       | 10 to 60 °C       |
| Weight                |          | 1,1 kg            | 1,1 kg            |
| Port direction        |          | D                 | D                 |

\* Due to a difference in nominal speeds the 24 V DC units have a 10% reduced flow rate when compared to the 12 V DC units.

All listed values measured at standard atmospheric conditions.



#### Model key:



Option: Noise reduced head Brushless DC-motor

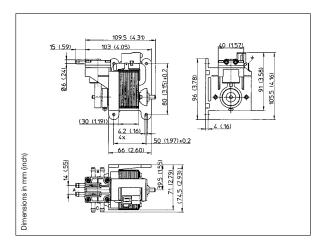
The information presented in this material is based on technical data and test results of nominal units. It is believed to be accurate and reliable and is offered as an aid to help in the selection of Thomas products. It is the responsibility of the user to determine the suitability of the product for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



## WOB-L Piston Vacuum Pump 8005V AC

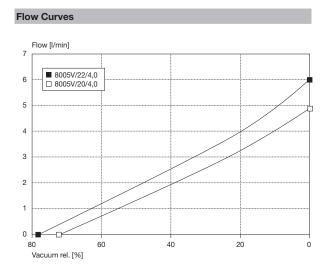
| Flow        | 6,0 l/min |
|-------------|-----------|
| Max. vacuum | 78 %      |



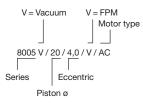


| Pneumatic Data         |             |                   |                   |
|------------------------|-------------|-------------------|-------------------|
| Description            |             | 8005V/20/4,0/V/AC | 8005V/22/4,0/V/AC |
| Part number            | 230 V/50 Hz | 80050017          | 80050022          |
| Max. flow              |             | 4,8 l/min         | 6,0 l/min         |
| Max. vacuum            |             | 73 %              | 78 %              |
| 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          |             | 2400 rpm          | 2400 rpm          |
| Power consumption      |             | 135 W             | 135 W             |
| Motor insulation class |             | F                 | F                 |
| Thermal switch         |             | 115 °C            | 115 °C            |
| General Data           |             |                   |                   |
| Ambient temperature    |             | 10 to 40 °C       | 10 to 40 °C       |
| Media temperature      |             | 10 to 40 °C       | 10 to 40 °C       |
| Weight                 |             | 1,1 kg            | 1,1 kg            |
| Port direction         |             | A                 | A                 |

All listed values measured at standard atmospheric conditions.



#### Model key:



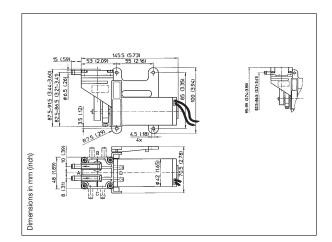
Option: Noise reduced head



### WOB-L Piston Compressor 8006D DC

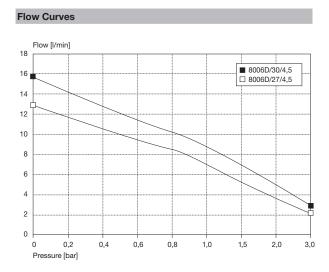
| Flow          | 15,8 l/min |  |
|---------------|------------|--|
| Max. pressure | 3,0 bar    |  |
|               |            |  |



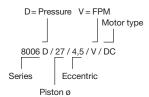


| Pneumatic Data     |          |                   |                   |
|--------------------|----------|-------------------|-------------------|
| Description        |          | 8006D/27/4,5/V/DC | 8006D/30/4,5/V/DC |
| Part number        | 12 V DC  | 80060057          | 80060071          |
|                    | 24 V DC  | 80060110          | 80060079          |
| Max. flow          |          | 13,0 l/min        | 15,8 l/min        |
| Max. pressure      |          | 3,0 bar           | 3,0 bar           |
| Max. continuous p  | oressure | 1,0 bar           | 1,0 bar           |
| Max. restart press | ure      | 1,0 bar           | 0,4 bar           |
| Electrical Data    |          |                   |                   |
| Motor type         |          | Direct current    | Direct current    |
| Nominal voltage    |          | 12 V/24 V DC      | 12 V/24 V DC      |
| Nominal speed      |          | 2800 rpm          | 2800 rpm          |
| Power consumption  | on       | 40 W              | 46 W              |
| Motor insulation c | lass     | E                 | E                 |
| General Data       |          |                   |                   |
| Ambient temperat   | ure      | 10 to 40 °C       | 10 to 40 °C       |
| Media temperature  | e        | 10 to 60 °C       | 10 to 60 °C       |
| Weight             |          | 1,2 kg            | 1,2 kg            |
| Port direction     |          | D                 | D                 |
|                    |          |                   |                   |

All listed values measured at standard atmospheric conditions.



### Model key:



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8006... Stock programme

Option:

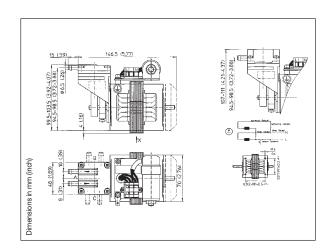
Noise reduced head

Brushless DC-motor

Con rod cover

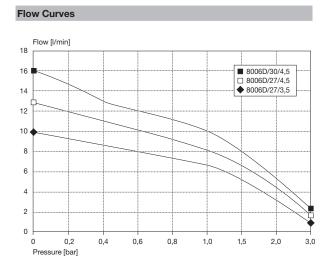
### WOB-L Piston Compressor 8006D AC

| Flow          | 15,8 l/min |          |
|---------------|------------|----------|
| Max. pressure | 3,0 bar    |          |
| C             |            |          |
|               |            |          |
| 613           | AF         |          |
| 6-3-01        | 9          |          |
|               |            | OIL-LESS |

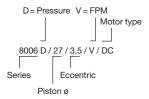


| Pneumatic Data        |             |                   |                   |                   |
|-----------------------|-------------|-------------------|-------------------|-------------------|
| Description           |             | 8006D/27/3,5/V/AC | 8006D/27/4,5/V/AC | 8006D/30/4,5/V/AC |
| Part number           | 230 V/50 Hz | 80060096          | 80060098          | 80060007          |
| Max. flow             |             | 10,1 l/min        | 13,0 l/min        | 15,8 l/min        |
| Max. pressure         |             | 3,0 bar           | 3,0 bar           | 3,0 bar           |
| Max. continuous pre   | essure      | 1,5 bar           | 1,2 bar           | 1,0 bar           |
| Max. restart pressur  | е           | Ambient pressure  | Ambient pressure  | Ambient pressure  |
| Electrical Data       |             |                   |                   |                   |
| Motor type            |             | Capacitor         | Capacitor         | Capacitor         |
| Nominal voltage       |             | 230 V/50 Hz       | 230 V/50 Hz       | 230 V/50 Hz       |
| Nominal speed         |             | 2800 rpm          | 2800 rpm          | 2800 rpm          |
| Power consumption     |             | 80 W              | 80 W              | 80 W              |
| Motor insulation clas | SS          | F                 | F                 | F                 |
| Thermal switch        |             | 150° C            | 150° C            | 150° C            |
| General Data          |             |                   |                   |                   |
| Ambient temperatur    | e           | 10 to 40 °C       | 10 to 40 °C       | 10 to 40 °C       |
| Media temperature     |             | 10 to 40 °C       | 10 to 40 °C       | 10 to 40 °C       |
| Weight                |             | 1,5 kg            | 1,5 kg            | 1,5 kg            |
| Port direction        |             | A                 | A                 | A                 |

All listed values measured at standard atmospheric conditions.



#### Model key:



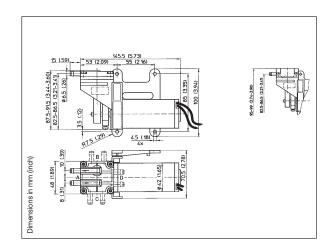
Option: Noise reduced head Con rod cover



## WOB-L Piston Vacuum Pump 8006V DC

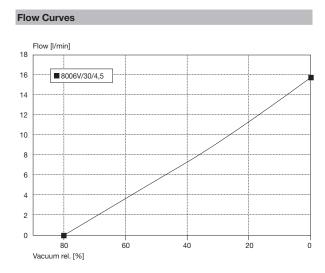
| Flow        | 15,8 l/min |  |  |
|-------------|------------|--|--|
| Max. vacuum | 80 %       |  |  |



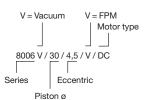


| Pneumatic Data         |         |                   |
|------------------------|---------|-------------------|
| Description            |         | 8006V/30/4,5/V/DC |
| Part number            | 12 V DC | 80061068          |
|                        | 24 V DC | 80061075          |
| Max. flow              |         | 15,8 l/min        |
| Max. vacuum            |         | 80 %              |
| Max. restart vacuum    |         | Ambient pressure  |
| Electrical Data        |         |                   |
| Motor type             |         | Direct current    |
| Nominal voltage        |         | 12 V/24 V DC      |
| Nominal speed          |         | 2800 rpm          |
| Power consumption      |         | 39 W              |
| Motor insulation class |         | E                 |
| General Data           |         |                   |
| Ambient temperature    |         | 10 to 40 °C       |
| Media temperature      |         | 10 to 60 °C       |
| Weight                 |         | 1,2 kg            |
| Port direction         |         | D                 |

All listed values measured at standard atmospheric conditions.



#### Model key:



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8006... Stock programme

Option:

Noise reduced head

Brushless DC-motor

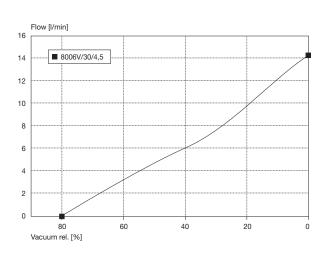
Con rod cover

### WOB-L Piston Vacuum Pump 8006V AC

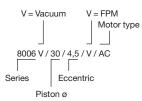
| Flow        | 14,2 l/min |          |                         |                       |
|-------------|------------|----------|-------------------------|-----------------------|
| Max. vacuum | 80 %       |          |                         | 15 (.59) 130.5 (5.16) |
|             |            |          |                         |                       |
| 6)          |            | OIL-LESS | Dimensions in mm (inch) |                       |

| Pneumatic Data         |             |                   |
|------------------------|-------------|-------------------|
| Description            |             | 8006V/30/4,5/V/AC |
| Part number            | 230 V/50 Hz | 80060010          |
| Max. flow              |             | 14,2 l/min        |
| Max. vacuum            |             | 80 %              |
| Max. restart vacuum    |             | Ambient pressure  |
|                        |             |                   |
| Electrical Data        |             |                   |
| Motor type             |             | Shaded pole       |
| Nominal voltage        |             | 230 V/50 Hz       |
| Nominal speed          |             | 2800 rpm          |
| Power consumption      |             | 95 W              |
| Motor insulation class |             | F                 |
| Thermal switch         |             | 150 °C            |
|                        |             |                   |
| General Data           |             |                   |
| Ambient temperature    |             | 10 to 40 °C       |
| Media temperature      |             | 10 to 40 °C       |
| Weight                 |             | 1,5 kg            |
| Port direction         |             | A                 |
|                        |             |                   |

All listed values measured at standard atmospheric conditions.



#### Model key:



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8006... Stock programme

Option:

Noise reduced head

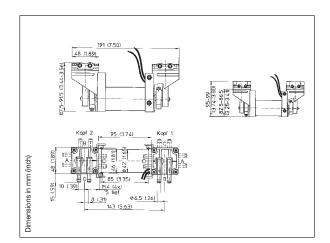
Con rod cover

95-99 (3.74-3.90) 82.5-86.5 (3.21-3.41)

### WOB-L Piston Vacuum Pump 8006ZV DC

| Flow        | 31,0 l/min |  |  |
|-------------|------------|--|--|
| Max. vacuum | 80 %       |  |  |

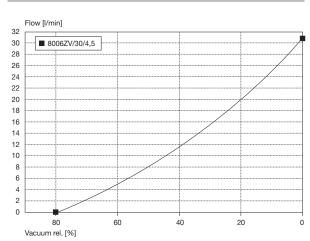




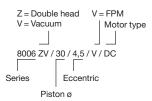
| Pneumatic Data         |         |                    |
|------------------------|---------|--------------------|
| Description            |         | 8006ZV/30/4,5/V/DC |
| Part number            | 12 V DC | 80060131           |
|                        | 24 V DC | 80060135           |
| Max. flow              |         | 31,0 l/min         |
| Max. vacuum            |         | 80 %               |
| Max. restart vacuum    |         | Ambient pressure   |
|                        |         |                    |
| Electrical Data        |         |                    |
| Motor type             |         | Direct current     |
| Nominal voltage        |         | 12 V/24 V DC       |
| Nominal speed          |         | 2800 rpm           |
| Power consumption      |         | 60 W               |
| Motor insulation class |         | E                  |
|                        |         |                    |
| General Data           |         |                    |
| Ambient temperature    |         | 10 to 40 °C        |
| Media temperature      |         | 10 to 60 °C        |
| Weight                 |         | 0,93 kg            |
| Port direction         |         | CB                 |
| Configuration          |         | parallel           |

All listed values measured at standard atmospheric conditions. Pneumatic data refer to parallel configuration.

#### Flow Curves



#### Model key:



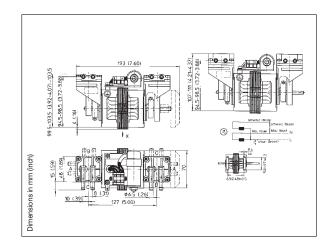
Option: Noise reduced head Brushless DC-motor Con rod cover



## WOB-L Piston Vacuum Pump 8006ZV AC

| Flow        | 29,0 l/min  |  |  |
|-------------|-------------|--|--|
| Max. vacuum | <b>95</b> % |  |  |
|             |             |  |  |

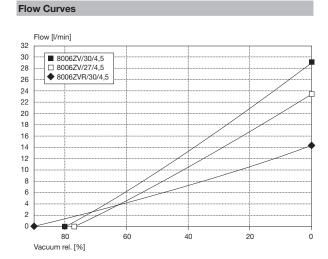




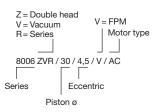
| Pneumatic Data         |             |                     |                    |                    |
|------------------------|-------------|---------------------|--------------------|--------------------|
| Description            |             | 8006ZVR/30/4,5/V/AC | 8006ZV/27/4,5/V/AC | 8006ZV/30/4,5/V/AC |
| Part number            | 230 V/50 Hz | 80060442            | 80060105           | 80060109           |
| Max. flow              |             | 14,2 l/min          | 23,5 l/min*        | 29,0 l/min*        |
| Max. vacuum            |             | 95 %                | 78 %*              | 80 %*              |
| Max. restart vacuum    |             | Ambient pressure    | Ambient pressure*  | Ambient pressure*  |
| Electrical Data        |             |                     |                    |                    |
| Motor type             |             | Capacitor           | Capacitor          | Capacitor          |
| Nominal voltage        |             | 230 V/50 Hz         | 230 V/50 Hz        | 230 V/50 Hz        |
| Nominal speed          |             | 2800 rpm            | 2800 rpm           | 2800 rpm           |
| Power consumption      |             | 85 W                | 85 W               | 85 W               |
| Motor insulation class |             | F                   | F                  | F                  |
| Thermal switch         |             | 150 °C              | 150 °C             | 150 °C             |
| General Data           |             |                     |                    |                    |
| Ambient temperature    |             | 10 to 40 °C         | 10 to 40 °C        | 10 to 40 °C        |
| Media temperature      |             | 10 to 40 °C         | 10 to 40 °C        | 10 to 40 °C        |
| Weight                 |             | 2,0 kg              | 2,0 kg             | 2,0 kg             |
| Port direction         |             | СВ                  | CB                 | CB                 |
| Configuration          |             | series              | parallel           | parallel           |
|                        |             |                     |                    |                    |

All listed values measured at standard atmospheric conditions.

\*Pneumatic data refer to parallel configuration.



#### Model key:



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8006... Stock programme

Option:

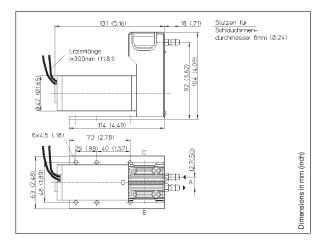
Noise reduced head

Con rod cover

### WOB-L Piston Compressor 8009D DC

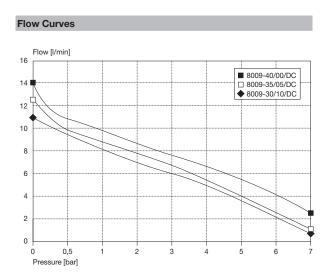
| Flow          | 14,0 l/min |  |
|---------------|------------|--|
| Max. pressure | 7,0 bar    |  |
|               |            |  |



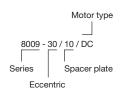


| Pneumatic Data         |         |                |                |                |  |
|------------------------|---------|----------------|----------------|----------------|--|
| Description            |         | 8009-30/10/DC  | 8009-35/05/DC  | 8009-40/00/DC  |  |
| Part number            | 12 V DC | 80091019       | 80091020       | 80091021       |  |
|                        | 24 V DC | 80091031       | 80091032       | 80091033       |  |
| Max. flow              |         | 11,0 l/min     | 12,5 l/min     | 14,0 l/min     |  |
| Max. pressure          |         | 7,0 bar        | 7,0 bar        | 7,0 bar        |  |
| Max. continuous p      | ressure | 1,5 bar        | 1,2 bar        | 1,0 bar        |  |
| Max. restart pressu    | ure     | 0,8 bar        | 0,6 bar        | 0,5 bar        |  |
|                        |         |                |                |                |  |
| Electrical Data        |         |                |                |                |  |
| Motor type             |         | Direct current | Direct current | Direct current |  |
| Nominal voltage        |         | 12 V/24 V DC   | 12 V/24 V DC   | 12 V/24 V DC   |  |
| Nominal speed          |         | 2800 rpm       | 2800 rpm       | 2800 rpm       |  |
| Power consumption      | on      | 50 W           | 58 W           | 65 W           |  |
| Motor insulation class |         | E              | E              | E              |  |
| General Data           |         |                |                |                |  |
| Ambient temperatu      | ure     | 10 to 40 °C    | 10 to 40 °C    | 10 to 40 °C    |  |
| Media temperature      | 9       | 10 to 60 °C    | 10 to 60 °C    | 10 to 60 °C    |  |
| Weight                 |         | 1,1 kg         | 1,1 kg         | 1,1 kg         |  |
| Port direction         |         | А              | A              | А              |  |

All listed values measured at standard atmospheric conditions.



#### Model key:



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8009... Stock programme

Option:

Different heads and

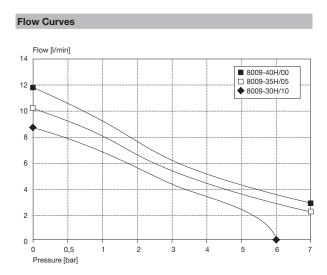
outlet connectors

### WOB-L Piston Compressor 8009D AC

| Flow 1           | 1,8 l/min |                         | <u>18 (.71) - 135 (5.32)</u>   |
|------------------|-----------|-------------------------|--|
| Max. pressure 7, | 0 bar     |                         | 43 (1.69)  |
|                  |           | Dimensions in mm (inch) | (52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1)<br>(52.1) |

| Pneumatic Data         |             |                |                  |                  |
|------------------------|-------------|----------------|------------------|------------------|
| Description            |             | 8009-30H/10/AC | 8009-35H/05/AC   | 8009-40H/00/AC   |
| Part number            | 230 V/50 Hz | 80091037       | 80091038         | 80091039         |
| Max. flow              |             | 8,8 l/min      | 10,3 l/min       | 11,8 l/min       |
| Max. pressure          |             | 6,0 bar        | 7,0 bar          | 7,0 bar          |
| Max. continuous press  | ure         | 1,8 bar        | 1,4 bar          | 1,0 bar          |
| Max. restart pressure  |             | 0,5 bar        | Ambient pressure | Ambient pressure |
| Electrical Data        |             |                |                  |                  |
| Motor type             |             | Capacitor      | Capacitor        | Capacitor        |
| Nominal voltage        |             | 230 V/50 Hz    | 230 V/50 Hz      | 230 V/50 Hz      |
| Nominal speed          |             | 2700 rpm       | 2700 rpm         | 2700 rpm         |
| Power consumption      |             | 78 W           | 78 W             | 78 W             |
| Motor insulation class |             | В              | В                | В                |
| Thermal switch         |             | 130 °C         | 130 °C           | 130 °C           |
| General Data           |             |                |                  |                  |
| Ambient temperature    |             | 10 to 40 °C    | 10 to 40 °C      | 10 to 40 °C      |
| Media temperature      |             | 10 to 40 °C    | 10 to 40 °C      | 10 to 40 °C      |
| Weight                 |             | 1,7 kg         | 1,7 kg           | 1,7 kg           |
| Port direction         |             | A              | А                | A                |

All listed values measured at standard atmospheric conditions.



#### Model key:

[ Series Eccentric Spacer plate

H = Capacitor motor 230 V/50 Hz Motor type 8009 - <u>30</u> H / <u>10</u> / AC

8009... Stock programme

Option:

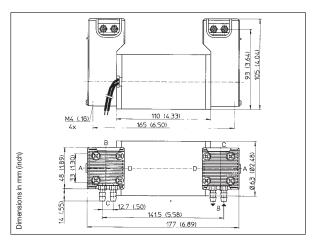
Different heads and outlet connectors



## WOB-L Piston Compressor 8009ZD DC

| Flow          | 24,5 l/min |
|---------------|------------|
| Max. pressure | 7,0 bar    |
|               |            |

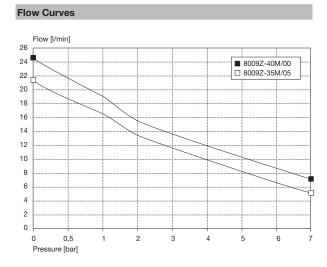




| Pneumatic Data     |          |                 |                 |
|--------------------|----------|-----------------|-----------------|
| Description        |          | 8009Z-35M/05/DC | 8009Z-40M/00/DC |
| Part number        | 24 V DC  | 80091066        | 80091067        |
| Max. flow          |          | 21,4 l/min      | 24,5 l/min      |
| Max. pressure      |          | 7,0 bar         | 7,0 bar         |
| Max. continuous p  | oressure | 1,2 bar         | 1,0 bar         |
| Max. restart press | ure      | 2,5 bar         | 2,0 bar         |
|                    |          |                 |                 |
| Electrical Data    |          |                 |                 |
| Motor type         |          | Direct current  | Direct current  |
| Nominal voltage    |          | 24 V DC         | 24 V DC         |
| Nominal speed      |          | 2900 rpm        | 2900 rpm        |
| Power consumption  | on       | 115 W           | 150 W           |
| Motor insulation c | lass     | E               | E               |
|                    |          |                 |                 |
| General Data       |          |                 |                 |
| Ambient temperat   | ure      | 10 to 40 °C     | 10 to 40 °C     |
| Media temperature  | е        | 10 to 60 °C     | 10 to 60 °C     |
| Weight             |          | 2,1 kg          | 2,1 kg          |
| Port direction     |          | СВ              | СВ              |
| Configuration      |          | parallel        | parallel        |

All listed values measured at standard atmospheric conditions.

Pneumatic data refer to parallel configuration.



#### Model key:

Z = Double head M = Direct current motor 24 V Different heads and Motor type 8009 Z - 35 M / 05 / DC

Series Eccentric Spacer plate

Option: outlet connectors

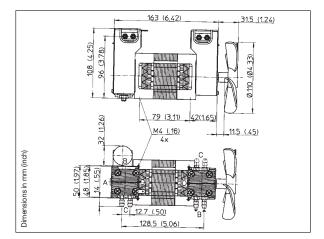
The information presented in this material is based on technical data and test results of nominal units. It is believed to be accurate and reliable and is offered as an aid to help in the selection of Thomas products. It is the responsibility of the user to determine the suitability of the product for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



### WOB-L Piston Compressor 8009ZD AC

| Flow          | 22,4 I/min |
|---------------|------------|
| Max. pressure | 7,0 bar    |
|               |            |



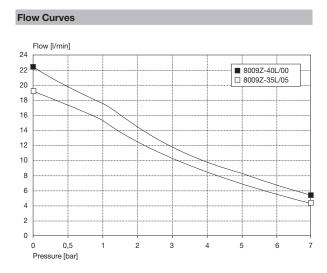


| Pneumatic Data         |             |                  |                  |
|------------------------|-------------|------------------|------------------|
| Description            |             | 8009Z-35L/05/AC  | 8009Z-40L/00/AC  |
| Part number            | 230 V/50 Hz | 80090378         | 80090435         |
| Max. flow              |             | 19,6 l/min       | 22,4 l/min       |
| Max. pressure          |             | 7,0 bar          | 7,0 bar          |
| Max. continuous press  | sure        | 1,4 bar          | 1,0 bar          |
| Max. restart pressure  |             | Ambient pressure | Ambient pressure |
| Electrical Data        |             |                  |                  |
| Motor type             |             | Capacitor        | Capacitor        |
| Nominal voltage        |             | 230 V/50 Hz      | 230 V/50 Hz      |
| Nominal speed          |             | 2700 rpm         | 2700 rpm         |
| Power consumption      |             | 138 W            | 138 W            |
| Motor insulation class |             | В                | В                |
| Thermal switch         |             | 130 °C           | 130 °C           |
| General Data           |             |                  |                  |
| Ambient temperature    |             | 10 to 40 °C      | 10 to 40 °C      |
| Media temperature      |             | 10 to 40 °C      | 10 to 40 °C      |
| Weight                 |             | 2,5 kg           | 2,5 kg           |
| Port direction         |             | CB               | СВ               |
| Configuration          |             | parallel         | parallel         |

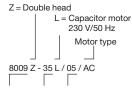
OIL-LES

All listed values measured at standard atmospheric conditions.

Pneumatic data refer to parallel configuration.



#### Model key:



Series Eccentric Spacer plate

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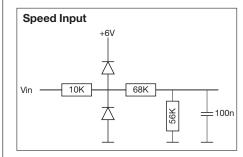


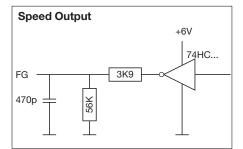
USAThomas.com (800) 799-4568 | 3810 Prospect Ave, Ste. A, Yorba Linda, CA 92886 8009... Stock programme

Option: Different heads and outlet connectors

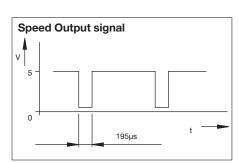
# Wiring diagram (8003 BLDC)

| -     | Function      | Colour | Control   |
|-------|---------------|--------|---|
| Pin 1 | V Supply      | Red    | 12 VDC (max. voltage range: 1018 VDC)               |
|       |               |        | 24 VDC (max. voltage range: 1028 VDC)               |
| Pin 2 | Ground        | Black  | Ground for Vsupply (PIN 1) and Speed Control (PIN3) |
| Pin 3 | Speed control | White  | analog: 05 VDC (max. 28V)                           |
|       |               |        | PWM: 620 kHz - 1496%                                |
|       |               |        | Speed voltage input threshold: 0,2 V                |
| Pin 4 | Tacho out     | Green  | 18 pulses per revolution                            |
|       |               |        | Pulse time "LOW": 195 µs                            |
|       |               |        | Output level "LOW": 0 / max. 0,5 V                  |
|       |               |        | Output level "HIGH": min. 4 V / max. 5 V            |





Optional: Adapter for 2-wire duty incl. potentiometer for speed adjustment



# **Options / Accessories**

### P/N 29011930

Adapter for BLDC motor 4-2 wire w/manual speed control 12VDC "red"

"black"

P/N 29011931 Adapter for BLDC motor 4-2 wire w/manual speed control 24VDC



