

ROTARY VANE



Rotary Vane Vacuum and Pressure Pumps

PICOLINO

MODELS

VTE 3
DTE 3
VTE 6
DTE 6
VTE 8
DTE 8
VTE 10
DTE 10



FEATURES

- Oil-less
- Long life
- Compact
- Low noise
- Pulsation free
- Low vibration

TYPICAL APPLICATIONS

- Vacuum lifting
- Automation/Pick and place
- Medical
- Printing








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A Gardner Denver Product

Rotary Vane Pump



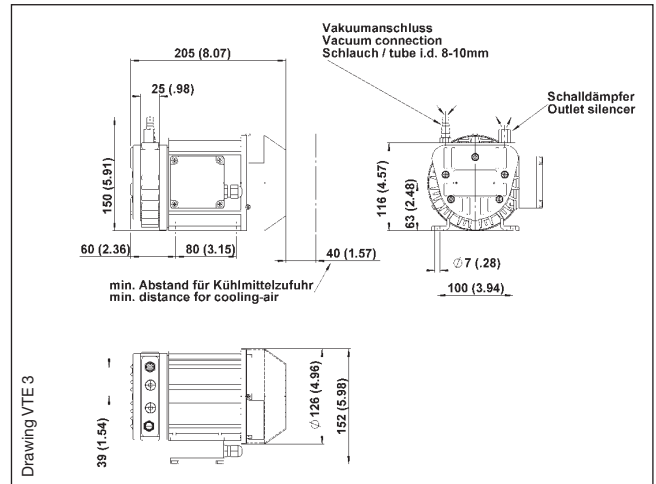
Product Overview

Model	Flow	Max. vacuum	Max. pressure	Page
 VTE 3	3,5/4,2 m ³ /hr 	150 mbar abs.	-	3
 DTE 3	3,5/4,2 m ³ /hr 	-	1,0 bar	4
 VTE 6	6,0/7,2 m ³ /hr 	150 mbar abs.	-	5
 DTE 6	6,0/7,2 m ³ /hr 	-	1,0 bar	6
 VTE 8	8,0/9,6 m ³ /hr 	150 mbar abs.	-	7
 DTE 8	8,0/9,6 m ³ /hr 	-	1,0 bar	8
 VTE 10	10,0/12,0 m ³ /hr 	150 mbar abs.	-	9
 DTE 10	10,0/12,0 m ³ /hr 	-	1,0 bar	10

Rotary Vane Pump VTE 3

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Flow	3,5/4,2 m³/h
Max. vacuum	150 mbar abs.



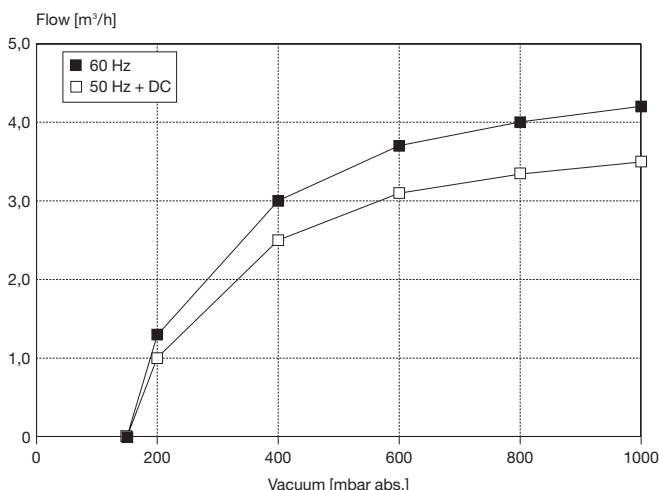
Pneumatic Data				
Description	VTE 3 230/50/60	VTE 3 115/50/60	VTE 3 Three-phase 50/60	VTE 3 24 DC
Part number	25130110	25130111	25130113	25130172
Max. flow	3,5/4,2 m³/h	3,5/4,2 m³/h	3,5/4,2 m³/h	3,5 m³/h
Max. intermittent vacuum	150 mbar abs.	150 mbar abs.	150 mbar abs.	150 mbar abs.
Max. continuous vacuum	150 mbar abs.	150 mbar abs.	150 mbar abs.	150 mbar abs.

Electrical Data				
Motor type	Capacitor	Capacitor	Three-phase	Permanent magnet
Nominal voltage	230 V ±10 % 50/60 Hz	100 V ±10 % 50 Hz 100-115 V ±10 % 60 Hz	200-255/346-440 V 50 Hz 200-277/346-480 V 60 Hz	24 V DC
Nominal speed	2720/3100 rpm	2750/3300 rpm	2860/3360 rpm	2850 rpm
Motor rating	0,120/0,145 kW	0,120/0,145 kW	0,120/0,145 kW	0,120 kW
Current consumption	1,54/1,45 A	2,7/2,9 A	1,12/0,71/1,02/0,62 A	10,5 A
Motor insulation class	F	F	F	F
Protection class	IP54	IP54	IP54	IP55
Thermal protector	yes	yes	no	no

General Data				
Ambient temperature	0 to 50 °C	0 to 50 °C	0 to 50 °C	0 to 50 °C
Weight	6,5 kg	6,5 kg	6,5 kg	7,9 kg
Direction of rotation	ccw	ccw	ccw	ccw
Average noise level	55/57 dB (A)	55/57 dB (A)	55/57 dB (A)	62 dB (A)

All listed flow values relate to air at the pump inlet condition (i.e. expanded under vacuum).
Further information (general usage, installation, servicing etc.) is available in the operating instructions manual.
UL approved motors also available.

Flow Curves



Supplied as standard:

Tube connector G 1/8
(Tube I.D. 8 – 10 mm)
Outlet silencer G 1/8

Accessories:

Vacuum regulator ZRV 6 G 1/8
(part number 31430)
Non-return valve ZRK 6 G 1/8
(part number 61802)

Service Parts:

Service kit (part number 25130104)
consists of:
4 x Vanes
1 x Filter cartridge
2 x Filter seal (ring)
1 x Filter seal

2513... Stock programme

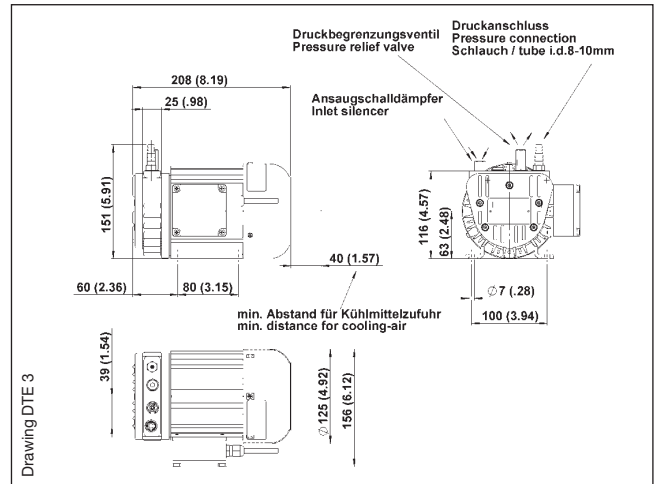
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Rotary Vane Pump DTE 3



Flow	3,5/4,2 m ³ /h
Max. pressure	1,0 bar



Pneumatic Data

Description	DTE 3 230/50/60	DTE 3 115/50/60	DTE 3 Three-phase 50/60	DTE 3 24 DC
Part number	25140210	25140211	25140213	25140272
Max. flow	3,5/4,2 m ³ /h	3,5/4,2 m ³ /h	3,5/4,2 m ³ /h	3,5 m ³ /h
Max. intermittent vacuum	1,0 bar	0,8 bar	1,0 bar	1,0 bar
Max. continuous vacuum	1,0 bar	0,8 bar	1,0 bar	1,0 bar

Electrical Data

Motor type	Capacitor	Capacitor	Three-phase	Permanent magnet
Nominal voltage	230 V ±10 % 50/60 Hz	100 V ±10 % 50 Hz 100-115 V ±10 % 60 Hz	200-255/346-440 V 50 Hz 200-277/346-480 V 60 Hz	24 V DC
Nominal speed	2720/3100 rpm	2750/3300 rpm	2860/3360 rpm	2850 rpm
Motor rating	0,120/0,145 kW	0,120/0,145 kW	0,120/0,145 kW	0,120 kW
Current consumption	1,54/1,45 A	2,7/2,9 A	1,12/0,71/1,02/0,62 A	10,5 A
Motor insulation class	F	F	F	F
Protection class	IP54	IP54	IP54	IP55
Thermal protector	yes	yes	no	no

General Data

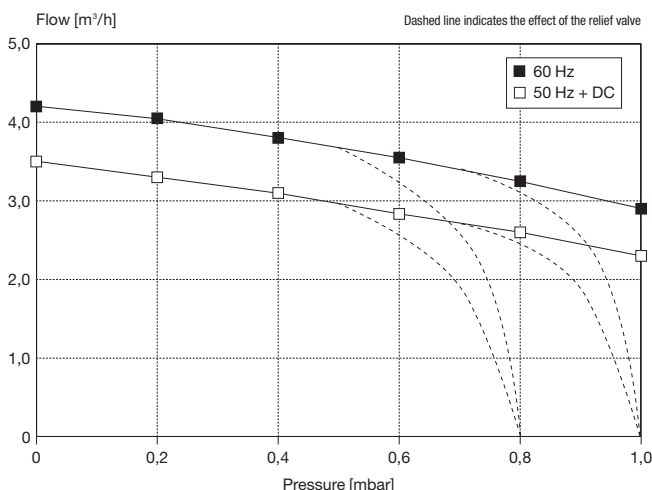
Ambient temperature	0 to 50 °C	0 to 50 °C	0 to 50 °C	0 to 50 °C
Weight	6,5 kg	6,5 kg	6,5 kg	7,9 kg
Direction of rotation	ccw	ccw	ccw	ccw
Average noise level	57/58 dB (A)	57/58 dB (A)	57/58 dB (A)	64 dB (A)

All listed flow values relate to air at standard atmospheric conditions.

Further information (general usage, installation, servicing etc.) is available in the operating instructions manual.

UL approved motors also available.

Flow Curves



Supplied as standard:

Tube connector G 1/8
(Tube I.D. 8 – 12 mm)
Inlet silencer G1/8
Pressure relief valve (0,8/1,0 bar) G 1/8

Accessories:

Vacuum regulator ZRD 6 G 1/8
(part number 31429)
Non-return valve ZRK 6 G 1/8
(part number 61802)

2514... Stock programme

Service Parts:

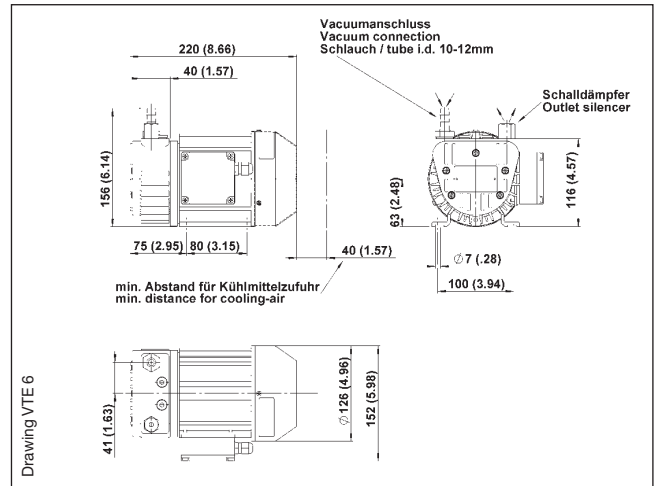
Service kit (part number 25130104)
consists of:
4 x Vanes
1 x Filter cartridge
2 x Filter seal (ring)
1 x Filter seal

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Rotary Vane Pump VTE 6

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Flow	6,0/7,2 m³/h
Max. vacuum	150 mbar abs.



Pneumatic Data

Description	VTE 6 230/50/60	VTE 6 115/50/60	VTE 6 Three-phase 50/60	VTE 6 24 DC
Part number	25160112	25160120	25160114	25160170
Max. flow	6,0/7,2 m³/h	6,0/7,2 m³/h	6,0/7,2 m³/h	6,0 m³/h
Max. intermittent vacuum	150 mbar abs.	150 mbar abs.	150 mbar abs.	150 mbar abs.
Max. continuous vacuum	150 mbar abs.	150 mbar abs.	150 mbar abs.	150 mbar abs.

Electrical Data

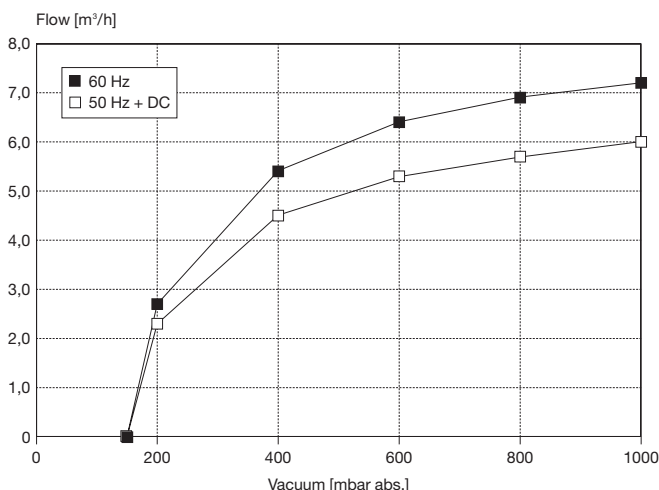
Motor type	Capacitor	Capacitor	Three-phase	Permanent magnet
Nominal voltage	230 V ±10 % 50/60 Hz	100 V ±10 % 50 Hz	200-255/346-440 V 50 Hz	24 V DC
Nominal speed	2750/3300 rpm	2700/3250 rpm	2800/3320 rpm	3250 rpm
Motor rating	0,25/0,30 kW	0,25/0,30 kW	0,25/0,30 kW	0,25 kW
Current consumption	2,3/2,5 A	5,0/5,2 A	1,4/0,81/1,6/0,9 A	18,0 A
Motor insulation class	F	B	B	F
Protection class	IP54	IP54	IP54	IP55
Thermal protector	yes	yes	no	no

General Data

Ambient temperature	0 to 50 °C	0 to 50 °C	0 to 50 °C	0 to 50 °C
Weight	7,5 kg	7,5 kg	7,5 kg	8,5 kg
Direction of rotation	ccw	ccw	ccw	ccw
Average noise level	57/59 dB (A)	57/59 dB (A)	57/59 dB (A)	64 dB (A)

All listed flow values relate to air at the pump inlet condition (i.e. expanded under vacuum).
Further information (general usage, installation, servicing etc.) is available in the operating instructions manual.
UL approved motors also available.

Flow Curves



Supplied as standard:

Tube connector G 3/8
(Tube I.D. 10 – 12 mm)
Outlet silencer G 3/8

Accessories:

Vacuum regulator ZRV 6 G 1/8
(part number 31430)
Non-return valve ZRK 12 G 1/8
(part number 61803)

Service Parts:

Service kit (part number 25160104)
consists of:
4 x Vanes
1 x Filter cartridge
2 x Filter seal (ring)
1 x Filter seal

2516... Stock programme

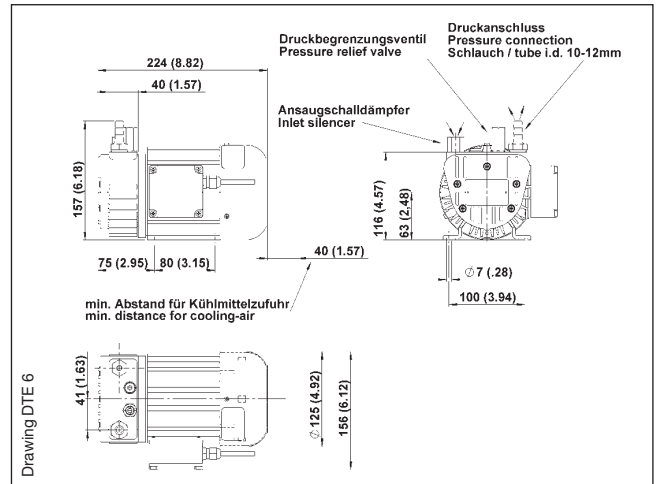
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Rotary Vane Pump DTE 6



Flow	6,0/7,2 m³/h
Max. pressure	1,0 bar



Pneumatic Data

Description	DTE 6 230/50/60	DTE 6 115/50/60	DTE 6 Three-phase 50/60	DTE 6 24 DC
Part number	25170212	25170220	25170214	25170270
Max. flow	6,0/7,2 m ³ /h	6,0/7,2 m ³ /h	6,0/7,2 m ³ /h	6,0 m ³ /h
Max. intermittent vacuum	1,0 bar	1,0 bar	1,0 bar	1,0 bar
Max. continuous vacuum	1,0 bar	1,0 bar	1,0 bar	1,0 bar

Electrical Data

Motor type	Capacitor	Capacitor	Three-phase	Permanent magnet
Nominal voltage	230 V ±10 % 50/60 Hz	100 V ±10 % 50 Hz 100-115 V ±10 % 60 Hz	200-255/346-440 V 50 Hz 200-277/346-480 V 60 Hz	24 V DC
Nominal speed	2750/3300 rpm	2700/3250 rpm	2800/3320 rpm	3250 rpm
Motor rating	0,25/0,30 kW	0,25/0,30 kW	0,25/0,30 kW	0,25 kW
Current consumption	2,3/2,5 A	5,0/5,2 A	1,4/0,81/1,6/0,9 A	18,0 A
Motor insulation class	F	B	B	F
Protection class	IP54	IP54	IP54	IP55
Thermal protector	yes	yes	no	no

General Data

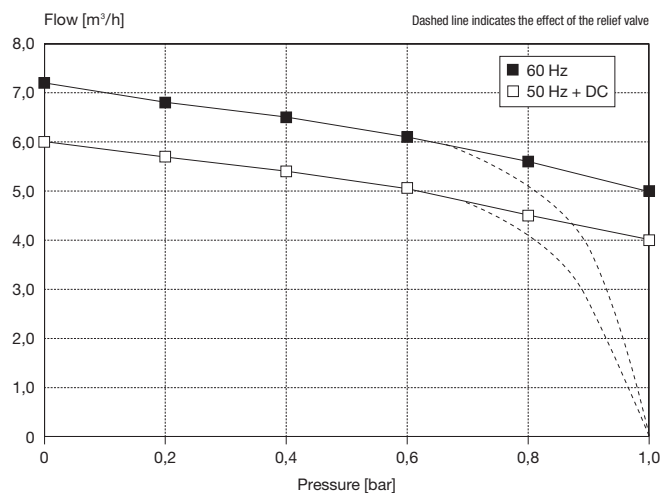
Ambient temperature	0 to 50 °C	0 to 50 °C	0 to 50 °C	0 to 50 °C
Weight	7,5 kg	7,5 kg	7,5 kg	8,5 kg
Direction of rotation	ccw	ccw	ccw	ccw
Average noise level	60/61 dB (A)	60/61 dB (A)	60/61 dB (A)	66 dB (A)

All listed flow values relate to air at standard atmospheric conditions.

Further information (general usage, installation, servicing etc.) is available in the operating instructions manual.

UL approved motors also available.

Flow Curves



Supplied as standard:

- Tube connector G 3/8 (Tube I.D. 10 – 12 mm)
- Inlet silencer G 3/8
- Pressure relief valve (1,0 bar) G 1/8

Accessories:

- Pressure regulator ZRD 6 G 1/8 (part number 31429)
- Non-return valve ZRK 12 G 3/8 (part number 61803)

2517... Stock programme

Service Parts:

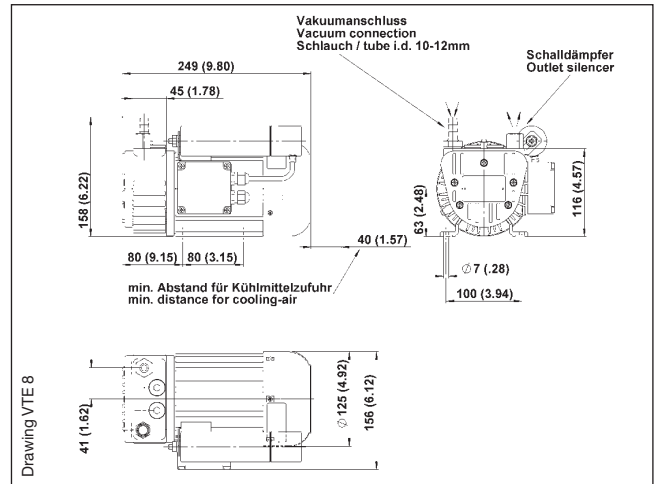
- Service kit (part number 25160104) consists of:
- 4 x Vanes
- 1 x Filter cartridge
- 2 x Filter seal (ring)
- 1 x Filter seal

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Rotary Vane Pump VTE 8

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Flow	8,0/9,6 m ³ /h
Max. vacuum	150 mbar abs.



Pneumatic Data

Description	VTE 8 230/50/60	VTE 8 115/50/60	VTE 8 Three-phase 50/60	VTE 8 24 DC
Part number	23630125	23630126	23630127	23630173
Max. flow	8,0/9,6 m ³ /h	8,0/9,6 m ³ /h	8,0/9,6 m ³ /h	8,0 m ³ /h
Max. intermittent vacuum	150 mbar abs.	150 mbar abs.	150 mbar abs.	150 mbar abs.
Max. continuous vacuum	150 mbar abs.	150 mbar abs.	150 mbar abs.	150 mbar abs.

Electrical Data

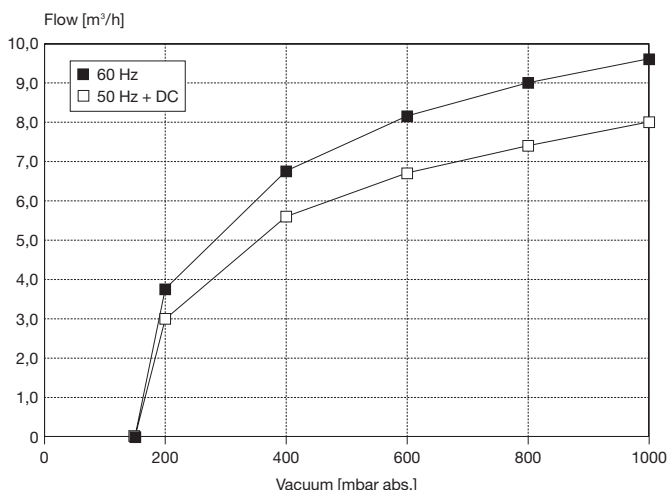
Motor type	Capacitor	Capacitor	Three-phase	Permanent magnet
Nominal voltage	230 V ±10 % 50/60 Hz	100 V ±10 % 50 Hz 100-115 V ±10 % 60 Hz	200-255/346-440 V 50 Hz 200-277/346-480 V 60 Hz	24 V DC
Nominal speed	2750/3200 rpm	2750/3300 rpm	2850/3380 rpm	3300 rpm
Motor rating	0,35/0,42 kW	0,35/0,42 kW	0,37/0,44 kW	0,37 kW
Current consumption	3,9/3,4 A	8,4/9,0 A	2,77/1,60/2,25/1,30 A	22 A
Motor insulation class	F	F	F	F
Protection class	IP54	IP54	IP54	IP55
Thermal protector	yes	yes	no	no

General Data

Ambient temperature	0 to 50 °C	0 to 50 °C	0 to 50 °C	0 to 50 °C
Weight	8,0 kg	8,0 kg	8,0 kg	9,2 kg
Direction of rotation	ccw	ccw	ccw	ccw
Average noise level	59/61 dB (A)	59/61 dB (A)	59/61 dB (A)	66 dB (A)

All listed flow values relate to air at the pump inlet condition (i.e. expanded under vacuum).
Further information (general usage, installation, servicing etc.) is available in the operating instructions manual.
UL approved motors also available.

Flow Curves



Supplied as standard:

Tube connector G 3/8
(Tube I.D. 10 – 12 mm)
Outlet silencer G 3/8

Accessories:

Vacuum regulator ZRV 12 G 3/8
(part number 31490)
Non-return valve ZRK 12 G 3/8
(part number 61803)

Service Parts:

Service kit (part number 23630104)
consists of:
4 x Vanes
1 x Filter cartridge
2 x Filter seal (ring)
1 x Filter seal

2363... Stock programme

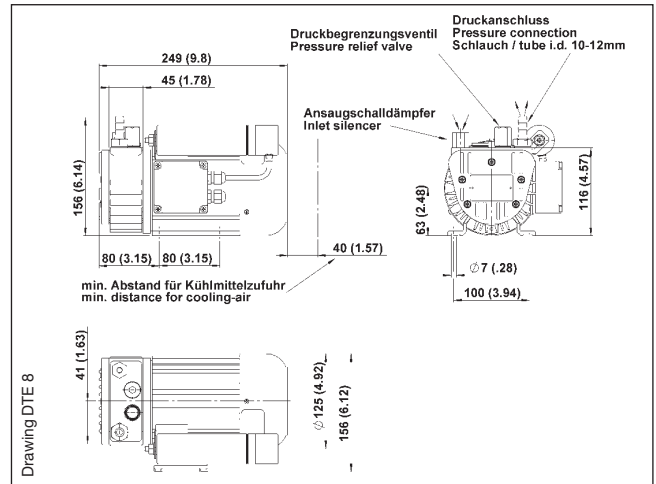
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Rotary Vane Pump DTE 8



Flow	8,0/9,6 m³/h
Max. pressure	1,0 bar



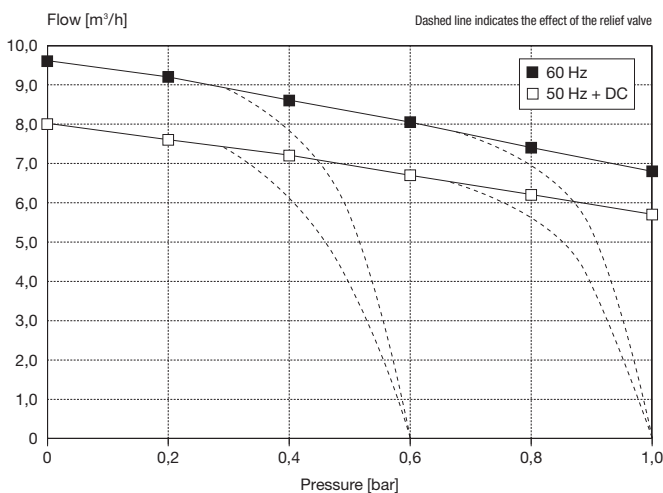
Pneumatic Data				
Description	DTE 8 230/50/60	DTE 8 115/50/60	DTE 8 Three-phase 50/60	DTE 8 24 DC
Part number	23660225	23660226	23660227	23660273
Max. flow	8,0/9,6 m ³ /h	8,0/9,6 m ³ /h	8,0/9,6 m ³ /h	8,0 m ³ /h
Max. intermittent vacuum	0,6 bar	0,6 bar	1,0 bar	1,0 bar
Max. continuous vacuum	0,6 bar	0,6 bar	1,0 bar	1,0 bar

Electrical Data				
Motor type	Capacitor	Capacitor	Three-phase	Permanent magnet
Nominal voltage	230 V ±10 % 50/60 Hz	100 V ±10 % 50 Hz 100-115 V ±10 % 60 Hz	200-255/346-440 V 50 Hz 200-277/346-480 V 60 Hz	24 V DC
Nominal speed	2750/3200 Upm	2750/3300 Upm	2850/3380 Upm	3300 Upm
Motor rating	0,35/0,42 kW	0,35/0,42 kW	0,37/0,44 kW	0,37 kW
Current consumption	3,9/3,4 A	8,4/9,0 A	2,77/1,60/2,25/1,30 A	22 A
Motor insulation class	F	F	F	F
Protection class	IP54	IP54	IP54	IP55
Thermal protector	yes	yes	no	no

General Data				
Ambient temperature	0 to 50 °C	0 to 50 °C	0 to 50 °C	0 to 50 °C
Weight	8,0 kg	8,0 kg	8,0 kg	9,2 kg
Direction of rotation	ccw	ccw	ccw	ccw
Average noise level	62/63 dB (A)	62/63 dB (A)	62/63 dB (A)	67 dB (A)

All listed flow values relate to air at standard atmospheric conditions.
Further information (general usage, installation, servicing etc.) is available in the operating instructions manual.
UL approved motors also available.

Flow Curves



Supplied as standard:

- Tube connector G 3/8 (Tube I.D. 10 – 12 mm)
- Inlet silencer G 3/8
- Pressure relief valve (0,6/1,0 bar) G 3/8

Accessories:

- Pressure regulator ZRD 12 G 3/8 (part number 31431)
- Non-return valve ZRK 12 G 3/8 (part number 61803)

2366... Stock programme

Service Parts:

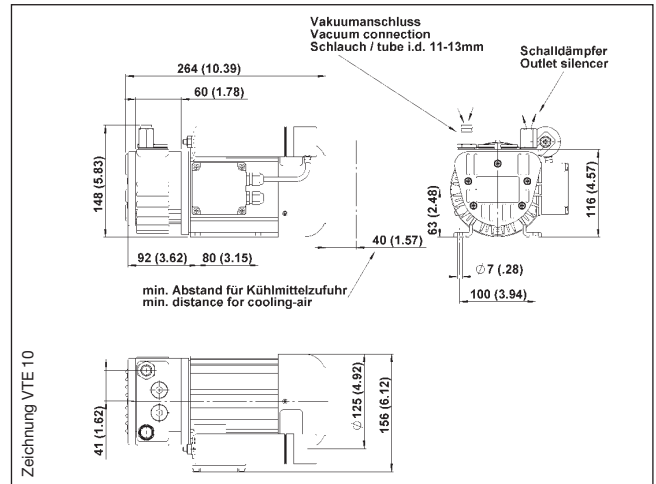
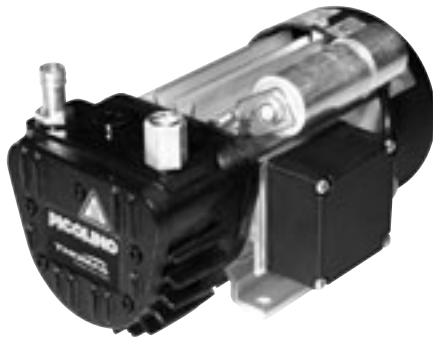
- Service kit (part number 25130104) consists of:
 - 4 x Vanes
 - 1 x Filter cartridge
 - 2 x Filter seal (ring)
 - 1 x Filter seal

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Rotary Vane Pump VTE 10 **PICOLINO**

Flow	10/12 m³/h
Max. vacuum	150 mbar abs.



Pneumatic Data

Description	VTE 10 230/50/60	VTE 10 115/50/60	VTE 10 Three-phase 50/60	VTE 10 24 DC
Part number	27740125	27740126	27740127	27740174
Max. flow	10/12 m ³ /h	10/12 m ³ /h	10/12 m ³ /h	10 m ³ /h
Max. intermittent vacuum	150 mbar abs.	150 mbar abs.	150 mbar abs.	150 mbar abs.
Max. continuous vacuum	150 mbar abs.	150 mbar abs.	150 mbar abs.	150 mbar abs.

Electrical Data

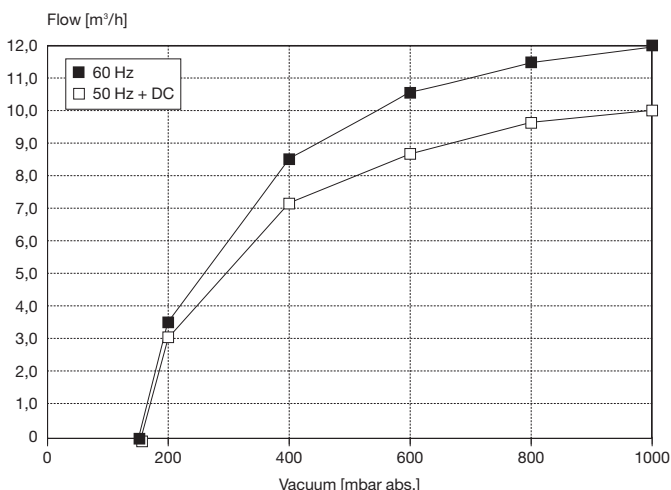
Motor type	Capacitor	Capacitor	Three-phase	Permanent magnet
Nominal voltage	230 V ±10% 50/60Hz	100 V ±10% 50 Hz 100-115 V ±10% 60 Hz	200-255/346-440 V 50 Hz 200-277/346-480 V 60 Hz	24 V DC
Nominal speed	2700/3200 rpm	2700/3200 rpm	2850/3380 rpm	3200 rpm
Motor rating	0,35/0,42 kW	0,35/0,42 kW	0,37/0,44 kW	0,42 kW
Current consumption	3,9/3,4 A	9,0/8,4 A	2,77/1,60/2,25/1,30 A	30 A
Motor insulation class	F	F	F	F
Protection class	IP54	IP54	IP54	IP55
Thermal protector	yes	yes	no	no

General Data

Ambient temperature	0 to 40 °C	0 to 40 °C	0 to 40 °C	0 to 40 °C
Weight	10,3 kg	10,3 kg	10,1 kg	11,8 kg
Direction of rotation	ccw	ccw	ccw	ccw
Average noise level	60/62 dB (A)	60/62 dB (A)	60/62 dB (A)	67 dB (A)

All listed flow values relate to air at the pump inlet condition (i.e. expanded under vacuum).
Further information (general usage, installation, servicing etc.) is available in the operating instructions manual.
UL approved motors also available.

Flow Curves



Supplied as standard:

Tube connector G 3/8
(Tube I.D. 11 – 13 mm)
Outlet silencer G 3/8

Accessories:

Vacuum regulator ZRV 12 G 3/8
(part number 31490)
Non-return valve ZRK 12 G 3/8
(part number 61803)

Service Parts:

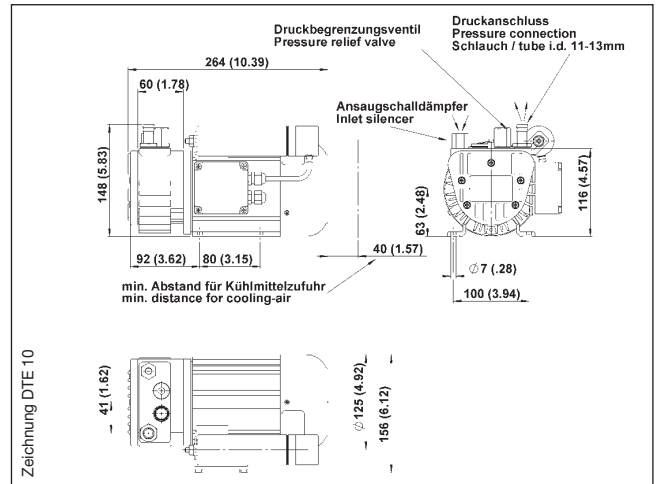
Service kit (part number 27740104)
consists of:
4 x Vanes
1 x Filter cartridge
2 x Filter seal (ring)
1 x Filter seal

2774... Stock programme

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Rotary Vane Pump DTE 10 **PICOLINO**

Flow	10/12 m³/h
Max. pressure	1,0 bar



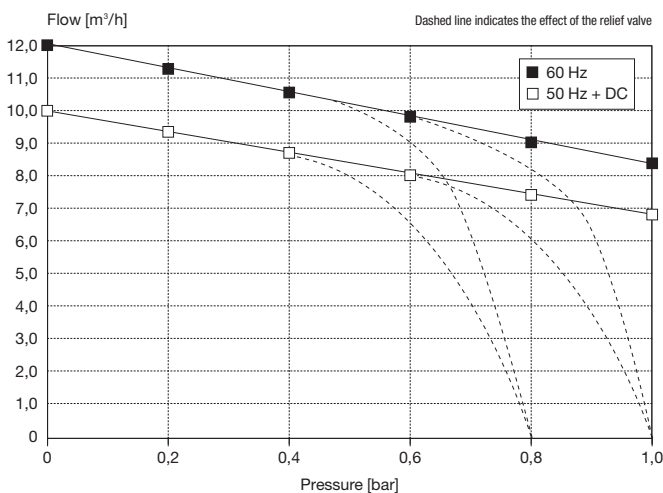
Pneumatic Data				
Description	DTE 10 230/50/60	DTE 10 115/50/60	DTE 10 Three-phase 50/60	DTE 10 24 DC
Part number	27750225	27750226	27750227	27750274
Max. flow	10/12 m ³ /h	10/12 m ³ /h	10/12 m ³ /h	10 m ³ /h
Max. intermittent vacuum	0,8 bar	0,8 bar	1,0 bar	1,0 bar
Max. continuous vacuum	0,8 bar	0,8 bar	1,0 bar	1,0 bar

Electrical Data				
Motor type	Capacitor	Capacitor	Three-phase	Permanent magnet
Nominal voltage	230 V ±10% 50/60Hz	100 V ±10% 50 Hz 100-115 V ±10% 60 Hz	200-255/346-440 V 50 Hz 200-277/346-480 V 60 Hz	24 V DC
Nominal speed	2700/3200 rpm	2700/3200 rpm	2850/3380 rpm	3200 rpm
Motor rating	0,35/0,42 kW	0,35/0,42 kW	0,37/0,44 kW	0,42 kW
Current consumption	3,9/3,4 A	9,0/8,4 A	2,77/1,60/2,25/1,30 A	30 A
Motor insulation class	F	F	F	F
Protection class	IP54	IP54	IP54	IP55
Thermal protector	yes	yes	no	no

General Data				
Ambient temperature	0 to 40 °C	0 to 40 °C	0 to 40 °C	0 to 40 °C
Weight	10,3 kg	10,3 kg	10,1 kg	11,8 kg
Direction of rotation	ccw	ccw	ccw	ccw
Average noise level	63/64 dB (A)	63/64 dB (A)	63/64 dB (A)	68 dB (A)

All listed flow values relate to air at standard atmospheric conditions.
Further information (general usage, installation, servicing etc.) is available in the operating instructions manual.
UL approved motors also available.

Flow Curves



Supplied as standard:

- Tube connector G 3/8 (Tube I.D. 11 – 3 mm)
- Outlet silencer G 3/8
- Pressure relief valve (0,8/1,0 bar) G 3/8

Accessories:

- Pressure regulator ZRD 12 G 3/8 (part number 31431)
- Non-return valve ZRK 12 G 3/8 (part number 61803)

2775... Stock programme

Service Parts:

- Service kit (part number 27740104) consists of:
- 4 x Vanes
- 1 x Filter cartridge
- 2 x Filter seal (ring)
- 1 x Filter seal

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



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