

# Vapour Recovery Pump

## MODELS

8014  
8012



## FEATURES

- Piston or Diaphragm Technology
- ATEX approval
- Single/Double Headed Motor Driven or Motorless
- Robust and Stable Performance
- Proven Quality
- E85 compatible

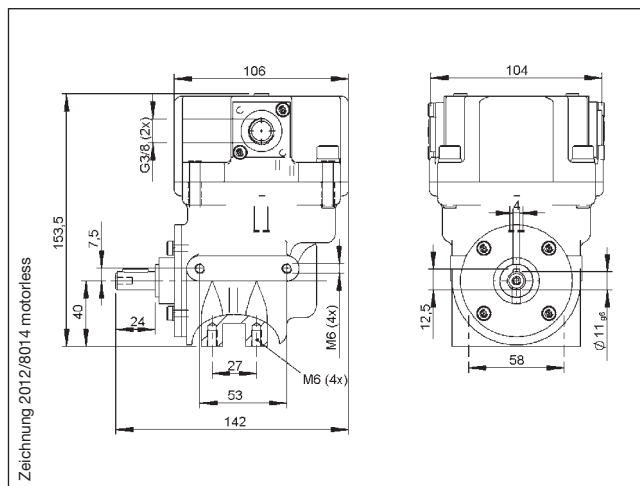
## TYPICAL APPLICATIONS

- Stage II Vapour Recovery (Each pump head designed to recover vapour from one fuel dispenser nozzle)



# Vapour Recovery Pump 8014 Motorless

Flow	52 l/min
Max. differential pressure	-650 mbar



## Pneumatic Data

Description	8014 Motorless
Pump Technology	Piston
Max. flow	52 l/min at 3000 RPM
Max. differential pressure	-650 mbar

## Electrical Data

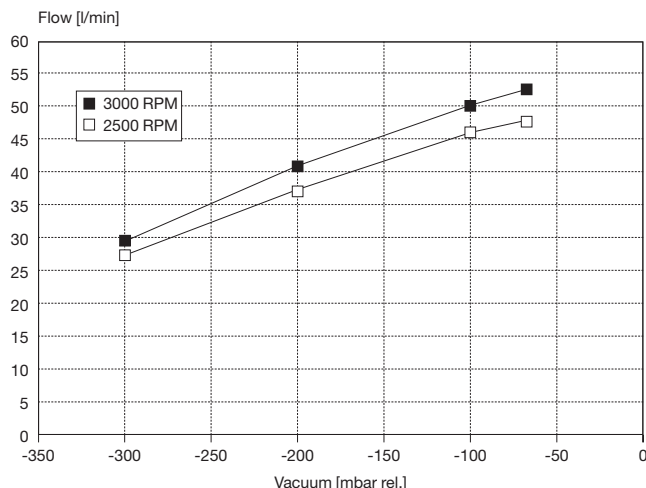
Motor type	-
Explosion protection	-
Nominal voltage	-
Nominal speed	-
Max. current consumption	-
Motor rating	-
Motor insulation class	-
Protection class	-
Thermal protector	-
Integrated start/stop relay	-

## General Data

Ambient temperature	-40 to +60 °C
Atex approval number	PTB 05 ATEX 4007
Ex protection pump	EXII 1/2 G II A T3
Ex protection system	EXII G II A
Integrated flame arrestors	yes
Weight	4,5 kg
Max. speed	3500 RPM

All listed flow values are measured against a simultaneous pressure of +200 mbar.  
Integrated internal relief valve is set at a differential pressure of 650 mbar.  
Inlet / outlet positions changeable through 90° steps.

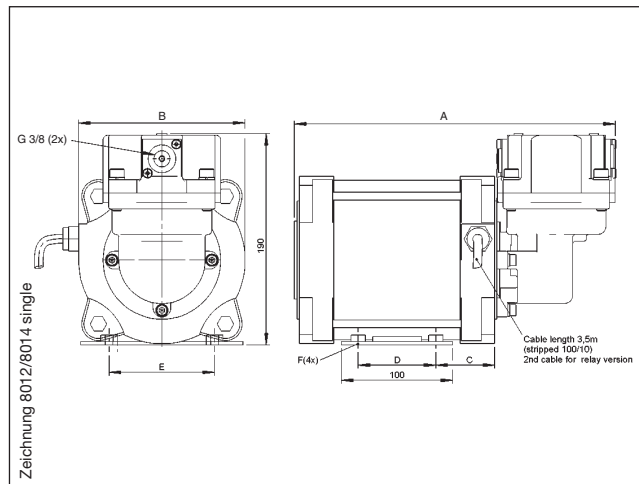
## Flow Curves



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.

# Vapour Recovery Pump 8014 Single

<b>Flow</b>	<b>51 l/min</b>
<b>Max. differential pressure</b>	<b>-650 mbar</b>



## Pneumatic Data

Description	8014 Single	8014 Single	8014 Single
Pump Technology	Piston	Piston	Piston
Max. flow	51 l/min	51 l/min	51 l/min
Max. differential pressure	-650 mbar	-650 mbar	-650 mbar

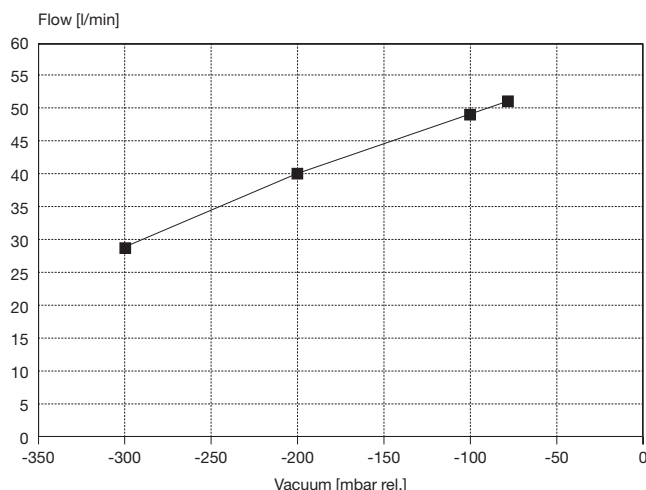
## Electrical Data

Motor type	Three-phase	Capacitor (internal)	Three-phase
Explosion protection	EExe II 2G T3	EExd II 2G T3	EExd II 2G T3
Nominal voltage	380-420 V 50 Hz	230 ±10% V 50 Hz	380-420 V 50 Hz
Nominal speed	2730 rpm	2850 rpm	2850 rpm
Max. current consumption	0,4 A	1,1 A	0,9
Motor rating	120 W	180 W	180 W
Motor insulation class	F	F	F
Protection class	IP 54	IP 54	IP 54
Thermal protector	no	automatic reset	automatic reset
Integrated start/stop relay	no	24 V AC / 24 V DC / 230 V AC	24 V AC / 24 V DC / 230 V AC

## General Data

Ambient temperature	-40 to +60 °C	-40 to +60 °C	-40 to +60 °C
Atex approval number	PTB 05 ATEX 4007	PTB 05 ATEX 4007	PTB 05 ATEX 4007
Ex protection pump	EXII 1/2 G II A T3	EXII 1/2 G II A T3	EXII 1/2 G II A T3
Ex protection system	EXII G II A	EXII G II A	EXII G II A
Integrated flame arrestors	yes	yes	yes
Dimensions A, B, C	291 mm, 108 mm, 52,5 mm	345mm, 150mm, 82,5mm	290 mm, 150 mm, 53 mm
Dimensions D, E, F	71 mm, 90 mm, Ø 6 mm	70 mm, 95 mm, M6	70 mm, 95 mm, M6
Weight	9,3 kg	16,1 kg	15,9 kg

## Flow Curves

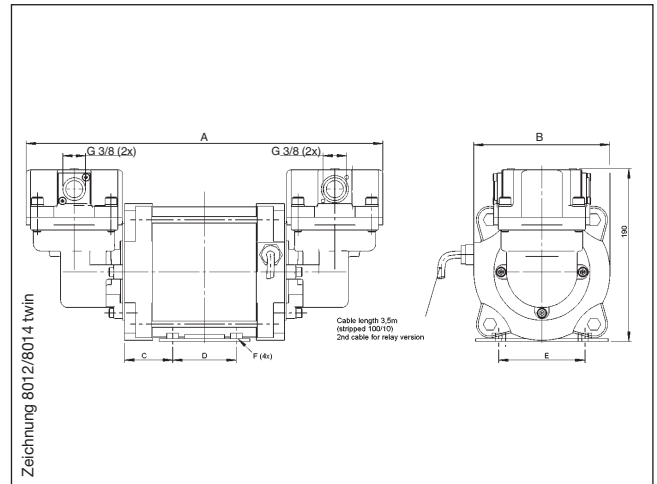


All listed flow values are measured against a simultaneous pressure of +200 mbar.  
Integrated internal relief valve is set at a differential pressure of 650 mbar.  
Inlet / outlet positions changeable through 90° steps.  
Other motor or relay voltages on request.

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.

# Vapour Recovery Pump 8014 Twin

Flow (per head)	51 l/min
Max. differential pressure	-650 mbar



## Pneumatic Data

Description	8014 Twin	8014 Twin	8014 Twin
Pump Technology	Piston	Piston	Piston
Max. flow (per head)	51 l/min	51 l/min	51 l/min
Max. differential pressure	-650 mbar	-650 mbar	-650 mbar

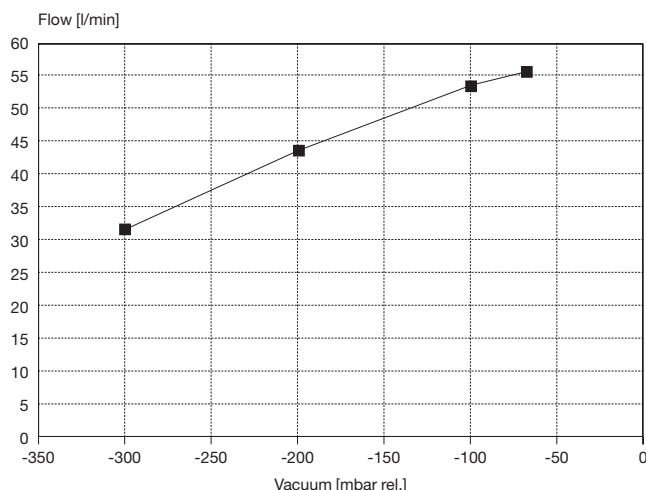
## Electrical Data

Motor type	Capacitor (internal)	Three-phase	Three-phase
Explosion protection	EExd II 2G T3	EExd II 2G T3	EExd II 2G T3
Nominal voltage	230 ±10% V 50 Hz	380-420 V 50 Hz	380-420 V 50 Hz
Nominal speed	2850 rpm	2850 rpm	2940 rpm
Max. current consumption	3,0 A	1,0 A	0,9 A
Motor rating	370 W	370 W	370 W
Motor insulation class	F	F	F
Protection class	IP 54	IP 54	IP 55
Thermal protector	automatic reset	automatic reset	automatic reset
Integrated start/stop relay	24 V AC / 24 V DC / 230 V AC	24 V AC / 24 V DC / 230 V AC	24 V AC / 24 V DC / 230 V AC

## General Data

Ambient temperature	-40 to +60 °C	-40 to +60 °C	-40 to +60 °C
Atex approval number	PTB 05 ATEX 4007	PTB 05 ATEX 4007	PTB 05 ATEX 4007
Ex protection pump	EXII 1/2 G II A T3	EXII 1/2 G II A T3	EXII 1/2 G II A T3
Ex protection system	EXII G II A	EXII G II A	EXII G II A
Integrated flame arrestors	yes	yes	yes
Dimensions A, B, C	449 mm, 150 mm, 53 mm	394 mm, 150 mm, 82,5 mm	438 mm, 154 mm, 49 mm
Dimensions D, E, F	70 mm, 95 mm, M6	70 mm, 95 mm, M6	100 mm, 125 mm, Ø 9,5 mm
Weight	20,6 kg	20,4 kg	21,2 kg

## Flow Curves

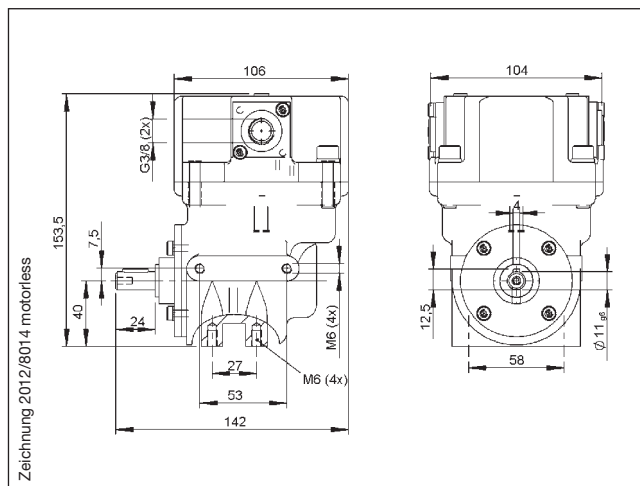


All listed flow values are measured against a simultaneous pressure of +200 mbar.  
Integrated internal relief valve is set at a differential pressure of 650 mbar.  
Inlet / outlet positions changeable through 90° steps.  
Other motor or relay voltages on request.

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.

# Vapour Recovery Pump 8012 Motorless

Flow	52 l/min
Max. differential pressure	-650 mbar



## Pneumatic Data

Description	8012 Motorless
Pump Technology	Diaphragm
Max. flow	52 l/min at 3000 RPM
Max. differential pressure	-650 mbar

## Electrical Data

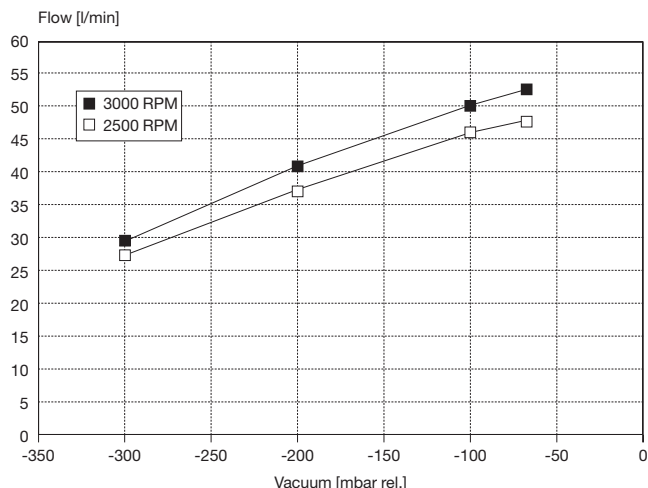
Motor type	-
Explosion protection	-
Nominal voltage	-
Nominal speed	-
Max. current consumption	-
Motor rating	-
Motor insulation class	-
Protection class	-
Thermal protector	-
Integrated start/stop relay	-

## General Data

Ambient temperature	-20 to +60 °C
Atex approval number	PTB 05 ATEX 4007
Ex protection pump	EXII 1/2 G II A T3
Ex protection system	EXII G II A
Integrated flame arrestors	yes
Weight	4,5 kg
Max. speed	3500 RPM

All listed flow values are measured against a simultaneous pressure of +200 mbar.  
Integrated internal relief valve is set at a differential pressure of 650 mbar.  
Inlet / outlet positions changeable through 90° steps.

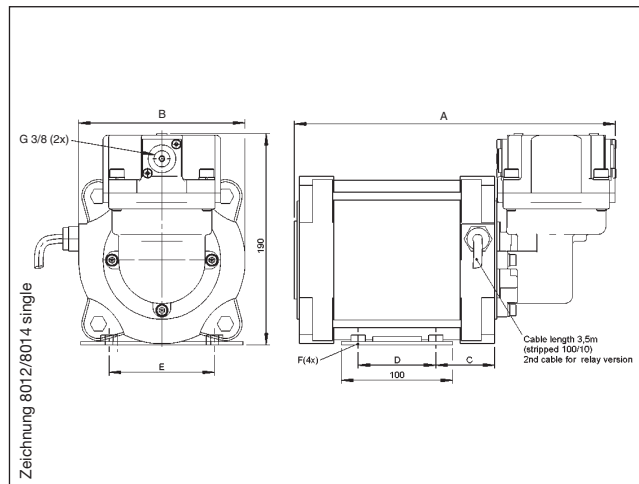
## Flow Curves



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.

# Vapour Recovery Pump 8012 Single

Flow	51 l/min
Max. differential pressure	-650 mbar



## Pneumatic Data

Description	8012 Single	8012 Single	8012 Single
Pump Technology	Diaphragm	Diaphragm	Diaphragm
Max. flow	51 l/min	51 l/min	51 l/min
Max. differential pressure	-650 mbar	-650 mbar	-650 mbar

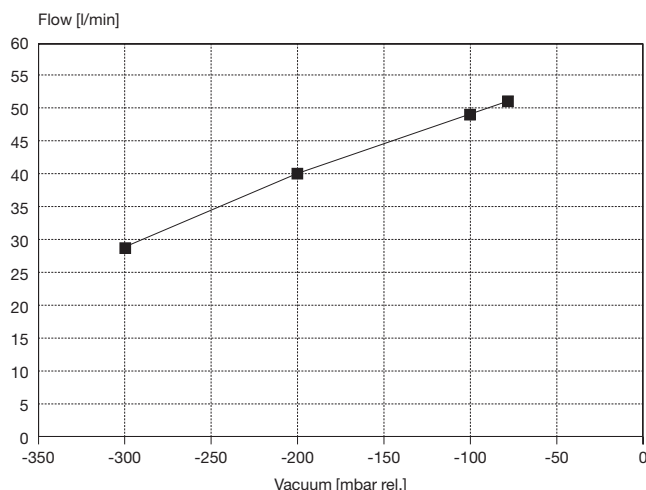
## Electrical Data

Motor type	Three-phase	Capacitor (internal)	Three-phase
Explosion protection	EExe II 2G T3	EExd II 2G T3	EExd II 2G T3
Nominal voltage	380-420 V 50 Hz	230 ±10% V 50 Hz	380-420 V 50 Hz
Nominal speed	2730 rpm	2850 rpm	2850 rpm
Max. current consumption	0,4 A	1,1 A	0,9
Motor rating	120 W	180 W	180 W
Motor insulation class	F	F	F
Protection class	IP 54	IP 54	IP 54
Thermal protector	no	automatic reset	automatic reset
Integrated start/stop relay	no	24 V AC / 24 V DC / 230 V AC	24 V AC / 24 V DC / 230 V AC

## General Data

Ambient temperature	-20 to +60 °C	-20 to +60 °C	-20 to +60 °C
Atex approval number	PTB 05 ATEX 4007	PTB 05 ATEX 4007	PTB 05 ATEX 4007
Ex protection pump	EXII 1/2 G II A T3	EXII 1/2 G II A T3	EXII 1/2 G II A T3
Ex protection system	EXII G II A	EXII G II A	EXII G II A
Integrated flame arrestors	yes	yes	yes
Dimensions A, B, C	291 mm, 108 mm, 52,5 mm	345mm, 150mm, 82,5mm	290 mm, 150 mm, 53 mm
Dimensions D, E, F	71 mm, 90 mm, Ø 6 mm	70 mm, 95 mm, M6	70 mm, 95 mm, M6
Weight	9,3 kg	16,1 kg	15,9 kg

## Flow Curves

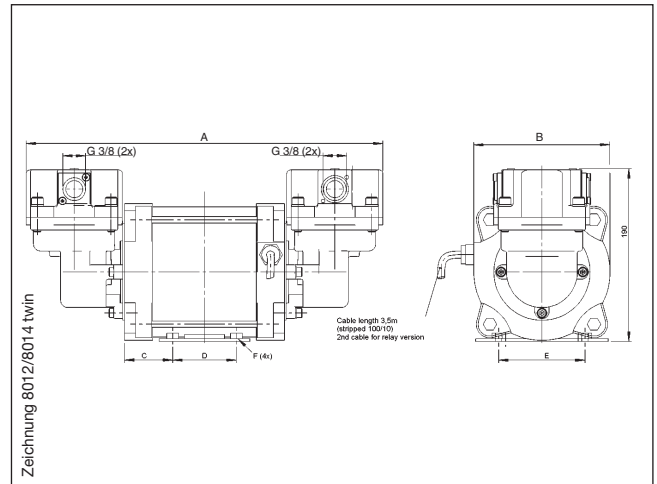


All listed flow values are measured against a simultaneous pressure of +200 mbar.  
Integrated internal relief valve is set at a differential pressure of 650 mbar.  
Inlet / outlet positions changeable through 90° steps.  
Other motor or relay voltages on request.

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.

# Vapour Recovery Pump 8012 Twin

Flow (per head)	51 l/min
Max. differential pressure	-650 mbar



## Pneumatic Data

Description	8012 Twin	8012 Twin	8012 Twin
Pump Technology	Diaphragm	Diaphragm	Diaphragm
Max. flow (per head)	51 l/min	51 l/min	51 l/min
Max. differential pressure	-650 mbar	-650 mbar	-650 mbar

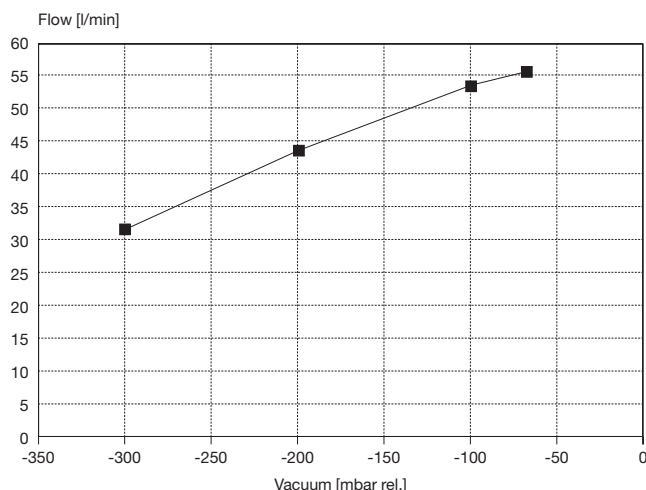
## Electrical Data

Motor type	Capacitor (internal)	Three-phase	Three-phase
Explosion protection	EExd II 2G T3	EExd II 2G T3	EExd II 2G T3
Nominal voltage	230 ±10% V 50 Hz	380-420 V 50 Hz	380-420 V 50 Hz
Nominal speed	2850 rpm	2850 rpm	2940 rpm
Max. current consumption	3,0 A	1,0 A	0,9 A
Motor rating	370 W	370 W	370 W
Motor insulation class	F	F	F
Protection class	IP 54	IP 54	IP 55
Thermal protector	automatic reset	automatic reset	automatic reset
Integrated start/stop relay	24 V AC / 24 V DC / 230 V AC	24 V AC / 24 V DC / 230 V AC	24 V AC / 24 V DC / 230 V AC

## General Data

Ambient temperature	-20 to +60 °C	-20 to +60 °C	-20 to +60 °C
Atex approval number	PTB 05 ATEX 4007	PTB 05 ATEX 4007	PTB 05 ATEX 4007
Ex protection pump	EXII 1/2 G II A T3	EXII 1/2 G II A T3	EXII 1/2 G II A T3
Ex protection system	EXII G II A	EXII G II A	EXII G II A
Integrated flame arrestors	yes	yes	yes
Dimensions A, B, C	449 mm, 150 mm, 53 mm	394 mm, 150 mm, 82,5 mm	438 mm, 154 mm, 49 mm
Dimensions D, E, F	70 mm, 95 mm, M6	70 mm, 95 mm, M6	100 mm, 125 mm, Ø 9,5 mm
Weight	20,6 kg	20,4 kg	21,2 kg

## Flow Curves



All listed flow values are measured against a simultaneous pressure of +200 mbar.  
Integrated internal relief valve is set at a differential pressure of 650 mbar.  
Inlet / outlet positions changeable through 90° steps.  
Other motor or relay voltages on request.

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.



Printed in Germany.  
Art.-Nr.: 17000164 10/2007

Carbon Neutral printed 

Gardner Denver Thomas GmbH  
Siemensstraße 4 · Gewerbegebiet Nord · D-82178 Puchheim  
Phone: +49 89 80900-0 · Fax: +49 89 808368  
e-Mail: [info.puc@gardnerdenver.com](mailto:info.puc@gardnerdenver.com) · <http://www.gd-thomas.com>