

Online CAD Configurator User Guide



Danfoss Cylinder Products

Type	Description	Product
Tie Rod	Heavy Duty NFPA	N5, NZ
	Heavy Duty Large Bore	HG, VG
	Heavy Duty ISO 6020-2 / DIN 25554	IHM, TV
	Medium Duty NFPA	R5, RE
	Light Duty Pneumatics	VP/Q6, L
Threaded	Threaded Construction	TS, TA
Welded	Industrial Welded	HW, WH
Mill	Mill Duty	EM, IM
XL	Extra Large Customs	XL Custom



Bore Size: up to 60"
 Stroke: up to 20 meters
 Pressure: up to 660 bar
 Metric and Imperial designs



Our Markets



Danfoss

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VICKERS
by Danfoss

Online CAD Configurator User Guide

Our easy-to-use, mobile-friendly cylinder configurator provides on-demand access to:

- 2D & 3D drawings
- PDF datasheets
- Application guides
- Calculation tools

Activation is needed for pricing after approval of request.



Online CAD Configurator User Guide

Hi,

Thank you for the RFQ!

Also, do you have an account for the online CAD configurator? It is easy, fast and convenient! Please create an account and you will receive a 35% discount on your orders! Here is the link where you can get quotes and pricing online.

[Cylinder CAD Configurator | Danfoss PowerSource \(eatonpowersource.com\)](https://eatonpowersource.com)

Quoted lead times provided are general guidance. Lead times will be confirmed upon receipt of order and are subject to change based on material availability.



User Registration Screen

New Account

By filling out the form below, I understand and agree that any use of my personal data will take place in compliance with the relevant and applicable data privacy laws and the [Danfoss Privacy Policy](#).

* Company Name

Company Name

* First/Last Name

First NameLast Name

Address

Address

* City

City

* State

Select State

* ZIP Code

Zip/Postal Code

* Country

United States

* Email

Email

Auto login? ☐

(Automatic access if last successful login was from the same browser on the same desktop)

* Password (6-20 characters)

Password(Show)(Create random password)

* Confirm password

Confirm(Show)

CAD format

☐ Opt-in to Cylinders Marketing

I agree to be informed regularly about Danfoss products, promotions and news. I understand and agree that Danfoss will use my data to personalize marketing communications. Any use of my personal data will take place in compliance with the relevant and applicable data privacy laws and the [Danfoss Privacy Policy](#). I can withdraw my consent to receive marketing communications at any time by contacting Danfoss.

* ☐ CADENAS CAD Terms and Conditions

I agree to [CADENAS CAD Terms and Conditions](#). I hereby consent to the processing (collection, storage and use) of my personal data according to the data protection declaration and the data protection notice made known to me. I have read the terms of use of the PARTcommunity forum and hereby also declare my consent.

*Indicates mandatory fields

Create Account

Pricing access will not be granted to personal email accounts.

Note: If you are just signing up or do not have access to pricing, you must send an email to your Customer Support Representative (CSR) to gain pricing access.



Login

Use this Login button

[Configure & CAD](#)

[New Account](#)

[Login](#)

Account Login

Revised 10/07/2022

Please enter your Email Address:

Do you already have an account?

☒ Yes, my password is: Remember me? ☒

☐ Yes, but I forgot my password

☐ No, please sign me up as a new user

[Login](#)



Change Configurator

Configure & CAD New Account Login

Account Login
Revised 10/07/2022

Please enter your Email Address:

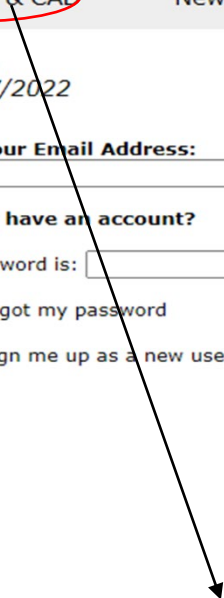
Do you already have an account?

☒ Yes, my password is: Remember me? ☒

☐ Yes, but I forgot my password

☐ No, please sign me up as a new user

Login



Change Configurator

Select	Code	Brand	Name	Status
<input type="radio"/>	eh	danfoss	EH Series	Pricing: External Calculations: QA
<input type="radio"/>	em	danfoss	EM Series	Pricing: External Calculations: Customer Calculations: Locked
<input type="radio"/>	im	danfoss	IM Series	Pricing: Executive Calculations: Customer Calculations: Locked
<input type="radio"/>	wh	danfoss	WH Welded Industrial Cylinders	Pricing: External Calculations: External
<input type="radio"/>	hg	hydroline	HG Series	Pricing: External Calculations: Customer Calculations: Locked
<input type="radio"/>	n5	hydroline	N5 Series	Pricing: External Calculations: Customer Calculations: Locked
<input type="radio"/>	r5	hydroline	R5 Series	Pricing: External Calculations: Customer Calculations: Locked
<input type="radio"/>	ts	hydroline	TS/HTS Series	Pricing: External Calculations: Customer Calculations: Locked
<input checked="" type="radio"/>	nz	vickers	NZ Series	Pricing: External Calculations: Customer Calculations: Locked
<input type="radio"/>	re	vickers	RE/RF Series	Pricing: External Calculations: Customer Calculations: Locked
<input type="radio"/>	ta	vickers	TA/TB Spacemaker	Pricing: External Calculations: Customer Calculations: Locked
<input type="radio"/>	vg	vickers	VG Series	Pricing: External Calculations: Customer Calculations: Locked

Select family



Price & Delivery by SKU/Model Code

Pricing & Lead Time

Enter

SKU

Quantity

Discount

Country

Best Price?

Enter

Enter SKU or Speed Number

1

0.0000 %

United States

☐

Enter 16 Digit model #

Pricing & Lead Time

Enter

Price & Leadtime

Cart View

NZ

01

GH

5

N

1

K

A

001

Brand

Series

Mounting Style

Bore & Rod Diameter

Rod End Type

Seal Options

Port Options

Port Location

Cushion Location

Cylinder Stroke

Vickers by Danfoss

ANSI B93.15/NFPA Interchangeable Hydraulic cylinder

Side Lug

3-1/4" Bore, 1-3/8" Rod

Small Male UN Thd.

Normal

Standard NPTF
(Not recommended for maximum reliability on new applications)

Head: 1 Cap: 1

Head: - Cap: -

0-1/16"

Region: North America

Price Components

Base Price

Seal options

Cushions

Stroke

(1" Gross Stroke @ \$21.10)

Port options

List Price

Less 35.00% Discount

Net Price

\$1,064.00

\$0.00

\$0.00

\$21.10

\$0.00

\$1,085.10

\$379.79

\$705.31

Normally ships in 5 business day(s)

Discount shown will only apply if the order is completed online or the quote is saved through the configurator. Standard discount to be applied otherwise.



Price & Delivery for Spare Parts

Pricing & Lead Time

Enter part number

Enter

SKU

Quantity

Discount

Country

Best Price?

Enter

Enter SKU & Speed Number

1

0.0000 %

United States

☐

Pricing & Lead Time

Enter

Speed Number

Cart View

Speed Number

Brand(s)

Model Code

List Price

Normally ships in 5 business day(s)

Comment:

Optional comment or instructions

Add to Cart

6333-AB454

Vickers

SEAL KIT

\$1,084.70



Price & Delivery by SKU/Model Code

Part Number Configurator

Search by PN [Find Cylinder](#)

Part No. **NZ01GH5N1KA00100**

Series **NZ**

Bore **3-1/4** Inch

Mounting Styles **01 Side Lug (MS2)**

Working Stroke **0.0625** 180 Inch

Gross Stroke (Working Stroke + Stop Tube Length) **0.0625** Inch

Rod Position **Fully Retracted**

Rod Position Stroke **0.0000**

Rod Size **1-3/8** Inch

Rod End Type **5 Small Male UN Thd.**

Info

CAD & Preview

Calculations

Calculations Help

Brand Vickers by Danfoss

NZ Series ANSI B93.15/NFPA Interchangeable Hydraulic cylinder

01 Mounting Style Side Lug

GH Bore & Rod Diameter 3-1/4" Bore, 1-3/8" Rod

S Rod End Type Small Male UN Thd.

N Seal Options Normal

1 Port Options Standard NPTF (Not recommended for maximum reliability on new applications)

K Port Location Head: 1 Cap: 1

A Cushion Location Head: - Cap: -

001 Cylinder Stroke 0-1/16"

Price Components

Base Price	\$1,064.00
Seal options	\$0.00
Cushions	\$0.00
Stroke	\$21.10
(1" Gross Stroke @ \$21.10)	
Port options	\$0.00
List Price	\$1,085.10

Normally ships in 5 business day(s)

Comment:
Optional comment or instructions

[Add to Cart](#)

Type part number in and information and pricing on the right will update.



Configuring a Cylinder

[Configure & CAD](#)[Pricing & Lead Time](#)[My Account](#)[Logoff](#)

Part Number Configurator

Search by PN [Find Cylinder](#)

Part No.

Series

Bore Inch

Mounting Style

Stroke 99 Inch

Gross Stroke (Working Stroke + Stop Tube Length) Inch

Rod Position

Rod Position Stroke Inch

Rod Size Inch

Rod End Style

Info

CAD & Preview

Brand	WH	Series	Industrial Welded Cylinders	Price Components	
	10	Mounting	Cap Clevis Mount	Base Price	\$744.80
	GH	Bore & Rod Diameter	3-1/4" Bore, 1-3/8" Rod	Stroke	\$21.10
	S	Rod End Type	Small Male UN Thread	(1" Gross Stroke @ \$21.10)	
	N	Seal Options	Normal	Sealing Systems	\$0.00
	1	Port Options	NPTF	List Price	\$765.90
	K	Port Location	Head: 1 Cap: 1	Request quote for availability	
	A	Cushions	Noncushioned (both ends)	Comment:	
	001	Cylinder Stroke	0-1/16"	<input type="text" value="Optional comment or instructions"/>	

[Add to Cart](#)

Use drop down to select features on cylinder.

The list price and lead-time will be built as you make your selections.

Note the changes to the pricing information shown:

- * List Price
- * CCR Discount
- * Net Price

Configure a cylinder and request a quote from anywhere in the world.



Export Data Sheet

Part Number Configurator

Search by PN [Find Cylinder](#)

Part No.

Series

Bore Inch

Mounting Styles

Working Stroke 180 Inch

Gross Stroke (Working Stroke) Inch

Info **CAD & Preview** Calculations Calculations Help

Brand	Vickers by Danfoss	Price Components	
NZ	Series	Base Price	\$1,064.00
01	Mounting Style	Seal options	\$0.00
GH	Bore & Rod Diameter	Cushions	\$0.00
S	Rod End Type	Stroke	\$21.10
N	Seal Options	(1" Gross Stroke @ \$21.10)	
1	Port Options	Port options	\$0.00
K	Port Location	List Price	\$1,085.10
A	Cushion Location		
001	Cylinder Stroke		

Normally ships in 5 business day(s)

Comment:
Optional comment or instructions

[Add to Cart](#)

Select CAD & Preview for Specs sheet, same process for all options.

Part Number Configurator

Search by PN [Find Cylinder](#)

Part No.

Series

Bore Inch

Mounting Styles

Working Stroke 180 Inch

Gross Stroke (Working Stroke + Stop Tube Length) Inch

Rod Position

Rod Position Stroke

Rod Size Inch

Rod End Type

Info **CAD & Preview** Calculations Calculations Help

[Download CAD](#) [Download PDF datasheet](#)

NZ01GH5N1KA00100_ZR00 (PDF)

[Download](#) [Information](#) [Delete](#)

3D Dimension 2D

Front Right

Select Download for PDF datasheet



Export Data Sheet

Downloads

DANFOSS_HYDRAULICS_NZ01GH5N1KA00100ZR00 (2)....

Open file

Click on Open file

Name

NZ01GH5N1KA00100_ZR00.pdf

readme-and-terms-of-use-3d-cad-models.txt

Type

Adobe Acrobat Document

Text Document

Double click pdf file

Vickers® by Danfoss Cylinders

Heavy-Duty Small Bore Series NZ

Danfoss Power Solutions

14615 Lone Oak Road

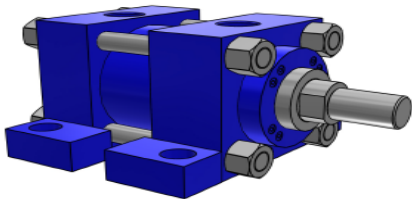
Eden Prairie, MN 55344

USA

Tel: 952-937-9800

www.danfoss.com

Part Number: NZ01GH5N1KA00100

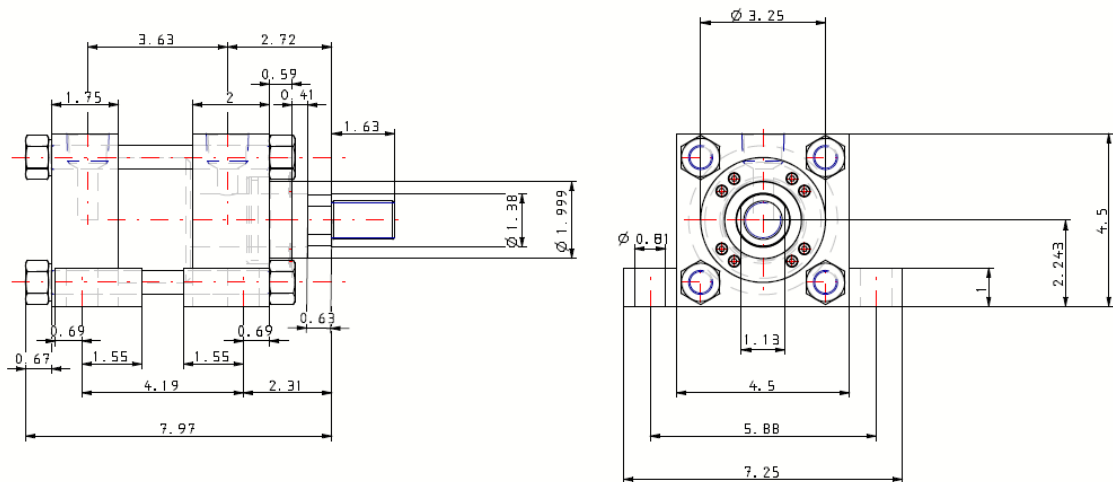



Series	NZ
Mounting Styles	Side lug (MS2)
Bore (INCH)	3-1/4
Rod Size (INCH)	1-3/8
Working Stroke (INCH)	0.0625
Rod Position	Fully Retracted
Rod Position Stroke (INCH)	0
Extra Rod Projection (INCH)	0
Rod End Type	Small Male UN Thd.
Rod Thread	1-14 INCH
Rod Thread Length	1.63 INCH
Tapped Thread Spec.(INCH)	N/A
Tie Rod Thread Spec.(INCH)	N/A
Seal Options	Normal
Port Options	Standard NPTF
Port Size	3/4 INCH
Port Locations (Head)	1
Port Locations (Cap)	1
Cushion Location (Head)	-
Cushion Location (Cap)	-
Pull Pressure (PSI)	3000
Push Pressure (PSI)	3000

Spec Sheet



Export Data Sheet



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	1	2				

2D Drawing



Export Data Sheet

Part No.	NZ01GH5N1KA00100
Series	NZ
Bore	3-1/4 INCH
Mounting Styles	01 Side Lug (MS2)
Working Stroke	0.0625 INCH
Gross Stroke (Working Stroke + Stop Tube Length)	0.0625 INCH
Rod Position	Fully Retracted
Rod Position Stroke	0
Rod Size	1-3/8 INCH
Rod End Type	5 Small Male UN Thd.
Seal Options	Normal
Port Options	Standard NPTF
Port Locations (Head)	1
Port Locations (Cap)	1
Cushion Location (Head)	Without Cushion
Cushion Location (Cap)	Without Cushion
Extra Rod Projection	0 INCH
No. of A/C Flat	Standard Flats
Gland Drain Selection	Without Gland Drain
Gland Drain Location (Head)	N/A
Gland Drain Location (Cap)	N/A
Proximity Switch	Without Proximity Switch
Proximity Switch Location (Head)	N/A
Proximity Switch Location (Cap)	N/A
Air Bleed	Without Air Bleed
Air Bleed Location (Head)	N/A
Air Bleed Location (Cap)	N/A
Note for Side Lug / Side End Lug position 3 (bottom) feature	-
Stop Tube	Without Stop Tube
Stop Tube Length	0 INCH
Stop Tube note	-
Specify XV Dimension (Only Mounting Style NZ15 or NZ34)	0 INCH
Keyed Piston to Rod	Without Keyed Piston to Rod
Rod Material	Standard
Head End Accessories	Without Head End Accessories
Head End Accessory Attachments	N/A
Head End Self Aligning Coupler	Without Self-Aligning Coupler
Head End Rod End Coupling	N/A
Cap End Accessories	N/A
Cap End Accessory Attachments	N/A
Cap End Self Aligning Coupler	N/A
Cap End Rod End Coupling	N/A

Spec Sheet



Placing an order

Pricing & Lead Time

Enter

Price & Leadtime

Cart View

NZ

01

GH

5

N

1

K

A

100

Brand

Series

Mounting Style

Bore & Rod Diameter

Rod End Type

Seal Options

Port Options

Port Location

Cushion Location

Cylinder Stroke

Vickers by Danfoss

ANSI B93.15/NFPA Interchangeable Hydraulic cylinder

Side Lug

3-1/4" Bore, 1-3/8" Rod

Small Male UN Thd.

Normal

Standard NPTF
(Not recommended for maximum reliability on new applications)

Head: 1 Cap: 1

Head: - Cap: -

10"

Region: North America

Price Components

Base Price

Seal options

Cushions

Stroke

(10" Gross Stroke @ \$21.10)

Port options

List Price

Less 35.00% Discount

Net Price

\$1,064.00

\$0.00

\$0.00

\$211.00

\$0.00

\$1,275.00

\$446.25

\$828.75

Normally ships in 5 business day(s)

Discount shown will only apply if the order is completed online or the quote is saved through the configurator. Standard discount to be applied otherwise.

Comment:
Optional comment or instructions

Select "Add to Cart" to start process.

Add to Cart

Pricing & Lead Time

Enter

Price & Leadtime

Cart View

NZ

01

GH

5

N

1

K

A

100

Brand

Series

Mounting Style

Bore & Rod Diameter

Rod End Type

Seal Options

Port Options

Port Location

Cushion Location

Cylinder Stroke

Vickers by Danfoss

ANSI B93.15/NFPA Interchangeable Hydraulic cylinder

Side Lug

3-1/4" Bore, 1-3/8" Rod

Small Male UN Thd.

Normal

Standard NPTF
(Not recommended for maximum reliability on new applications)

Head: 1 Cap: 1

Head: - Cap: -

10"

Region: North America

Price Components

Base Price

Seal options

Cushions

Stroke

(10" Gross Stroke @ \$21.10)

Port options

List Price

Less 35.00% Discount

Net Price

\$1,064.00

\$0.00

\$0.00

\$211.00

\$0.00

\$1,275.00

\$446.25

\$828.75

Normally ships in 5 business day(s)

Discount shown will only apply if the order is completed online or the quote is saved through the configurator. Standard discount to be applied otherwise.

Comment:
Optional comment or instructions

Click on update after adding to cart.

Update Cart

Remove from Cart

Added NZ01GH5N1KA10000



Placing an order

Select the RFQ/Order button to view cart



Pricing & Lead Time

Enter

Price & Leadtime

Cart View

NZ

01

GH

5

N

1

K

A

100

Brand

Series

Mounting Style

Bore & Rod Diameter

Rod End Type

Seal Options

Port Options

Port Location

Cushion Location

Cylinder Stroke

Vickers by Danfoss

ANSI B93.15/NFPA Interchangeable Hydraulic cylinder

Side Lug

3-1/4" Bore, 1-3/8" Rod

Small Male UN Thd.

Normal

Standard NPTF
(Not recommended for maximum reliability on new applications)

Head: 1 Cap: 1

Head: - Cap: -

10"

Region: North America

Price Components

Base Price

Seal options

Cushions

Stroke

(10" Gross Stroke @ \$21.10)

Port options

List Price

Less 35.00% Discount

Net Price

\$1,064.00

\$0.00

\$0.00

\$211.00

\$0.00

\$1,275.00

\$446.25

\$828.75

Normally ships in 5 business day(s)

Discount shown will only apply if the order is completed online or the quote is saved through the configurator. Standard discount to be applied otherwise.

Comment:
Optional comment or instructions

Update Cart

Remove from Cart

Updated NZ01GH5N1KA10000



Shopping Cart

Del?	Line#	Part #/Description	Quantity	List Price	Discount%	Net Price
<input type="checkbox"/>	1	NZ01GH5N1KA10000 (Get CAD) <ul style="list-style-type: none">Brand: Vickers by DanfossSeries: ANSI B93.15/NFPA Interchangeable Hydraulic cylinderMounting Style: Side LugBore & Rod Diameter: 3-1/4" Bore, 1-3/8" RodRod End Type: Small Male UN Thd.Seal Options: NormalPort Options: Standard NPTF Not recommended for maximum reliability on new applicationsPort Location: Head: 1 Cap: 1Cushion Location: Head: - Cap: -Cylinder Stroke: 10" <div>Normally ships in 5 business day(s)</div> <div>Comment: Optional comment or instructions</div>	<input type="text" value="1"/>	\$1,275.00	35.00%	\$828.75

Change Quantity or Del?
Update if changes made.
Click Check out if correct.

Discount shown will only apply if the order is completed online or the quote is saved through the configurator. Standard discount to be applied otherwise.

[Update Cart](#) [Check Out](#) [Clear Cart](#)



Placing an order

Check information in the sold to and ship to boxes.

Fill in Type, PO#, Ship VIA and comments.

The screenshot shows the Danfoss ordering interface. At the top left is the Danfoss logo. To its right is the address "Eden Prairie, MN 55344" and the URL "https://danfoss.com". Below the logo is the "Sold To" section with the following details: Company Name: Danfoss, Name: Dean Sieler, City: Jackson, State/Province: Michigan, Zip/Postal Code: 49202, Country: United States, Email: dean.sielier@danfoss.com. To the right is the "Ship To" section with fields for: *Company Name (Danfoss), *Name (Dean Sieler), *Address (Address), *City (Jackson), *State (Michigan), *ZIP Code (49202), and *Country (United States). A note below the ship to fields states "*Indicates mandatory fields". Below these sections is a table with four columns: Type, PO#, Ship Via, and Comment. The Type column has a dropdown menu. The PO# and Ship Via columns have input fields. The Comment column has a text area with the placeholder "optional comment or instructions". Below the table is a table with six columns: Line#, Part #/Description, Quantity, List Price, Discount%, and Net Price. The first row (Line# 1) contains the part number "NZ01GH5N1KA10000 (Get CAD)" and its description: "Brand: Vickers by Danfoss, Series: ANSI B93.15/NFPA Interchangeable Hydraulic cylinder, Mounting Style: Side Lug, Bore & Rod Diameter: 3-1/4" Bore, 1-3/8" Rod, Rod End Type: Small Male UN Thd., Seal Options: Normal, Port Options: Standard NPTF, Not recommended for maximum reliability on new applications, Port Location: Head: 1 Cap: 1, Cushion Location: Head: - Cap: -, Cylinder Stroke: 10". The Quantity is 1, List Price is \$1,275.00, Discount% is 35.00%, and Net Price is \$828.75. Below the table is a note: "Discount shown will only apply if the order is completed online or the quote is saved through the configurator. Standard discount to be applied otherwise." At the bottom left is a button labeled "Review >>".

Sold To
Company Name: Danfoss
Name: Dean Sieler
City: Jackson
State/Province: Michigan
Zip/Postal Code: 49202
Country: United States
Email: dean.sielier@danfoss.com

Ship To
*Company Name: Danfoss
*Name: Dean Sieler
*Address: Address
*City: Jackson
*State: Michigan
*ZIP Code: 49202
*Country: United States
*Indicates mandatory fields

Type	PO#	Ship Via	Comment
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="optional comment or instructions"/>

Line#	Part #/Description	Quantity	List Price	Discount%	Net Price
1	NZ01GH5N1KA10000 (Get CAD) • Brand: Vickers by Danfoss • Series: ANSI B93.15/NFPA Interchangeable Hydraulic cylinder • Mounting Style: Side Lug • Bore & Rod Diameter: 3-1/4" Bore, 1-3/8" Rod • Rod End Type: Small Male UN Thd. • Seal Options: Normal • Port Options: Standard NPTF • Not recommended for maximum reliability on new applications • Port Location: Head: 1 Cap: 1 • Cushion Location: Head: - Cap: - • Cylinder Stroke: 10" Normally ships in 5 business day(s)	1	\$1,275.00	35.00%	\$828.75

Discount shown will only apply if the order is completed online or the quote is saved through the configurator. Standard discount to be applied otherwise.

Review >>

Select Review to see order.



Placing an order

Order Checkout



Danfoss
7945 Wallace Rd
Eden Prairie, MN 55344
<https://danfoss.com>

Sold To

Company Name Danfoss
Name Dean Sieler
City Jackson
State/Province Michigan
Zip/Postal Code 49202
Country United States
Email dean.sielier@danfoss.com

Ship To

Company Danfoss
Name Dean Sieler
Address 123 no
City Jackson
State/Province Michigan
Zip/Postal Code 49202
Country United States

Type		PO#	Ship Via			
Order		123456	UPS			
Line#	Part #/Description	Quantity	List Price	Discount%	Net Price	
1	NZ01GH5N1KA10000 (Get CAD) <ul style="list-style-type: none">• Brand: Vickers by Danfoss• Series: ANSI B93.15/NFPA Interchangeable Hydraulic cylinder• Mounting Style: Side Lug• Bore & Rod Diameter: 3-1/4" Bore, 1-3/8" Rod• Rod End Type: Small Male UN Thd.• Seal Options: Normal• Port Options: Standard NPTF• Not recommended for maximum reliability on new applications• Port Location: Head: 1 Cap: 1• Cushion Location: Head: - Cap: -• Cylinder Stroke: 10" Normally ships in 5 business day(s)	1	\$1,275.00	35.00%	\$828.75	

Discount shown will only apply if the order is completed online or the quote is saved through the configurator. Standard discount to be applied otherwise.

<< Edit Complete >>

Select the Edit to make changes.

Select the Complete button to place order.



Danfoss

Danfoss

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VICKERS
by Danfoss