

User Guide

Online Cylinder CAD Configurator

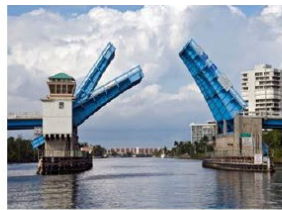


Danfoss Cylinder Products and Markets

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
SL	Extra Large Customs	XL Custom

Bore Size: up to 60"
Stroke: up to 20 meters

Pressure: up to 660 bar
Metric and Imperial designs



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.

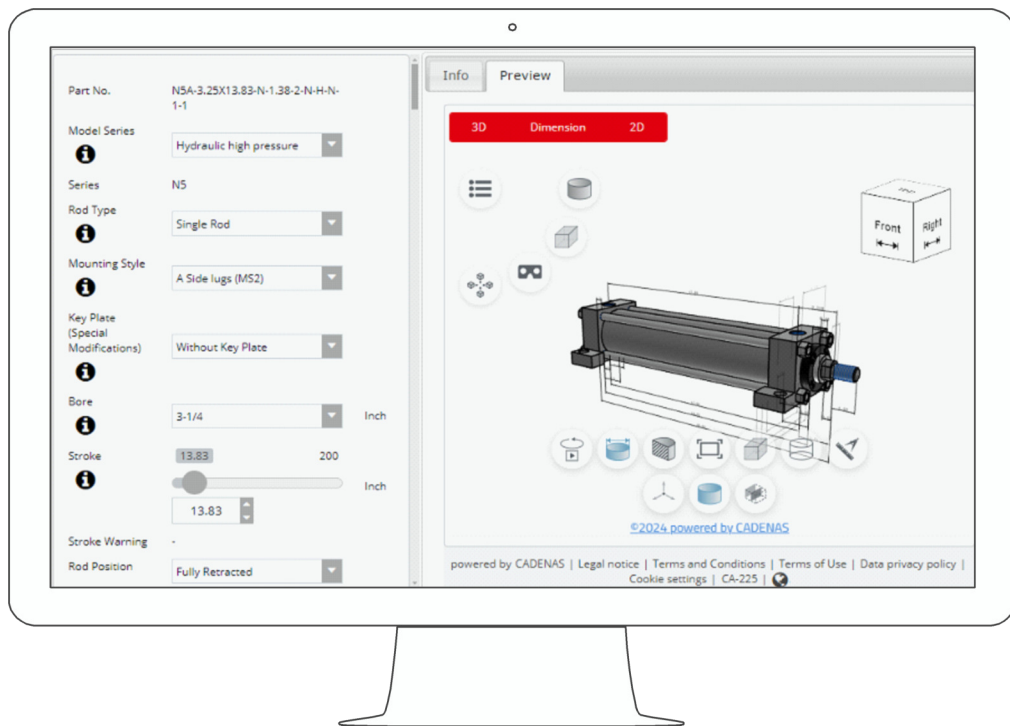
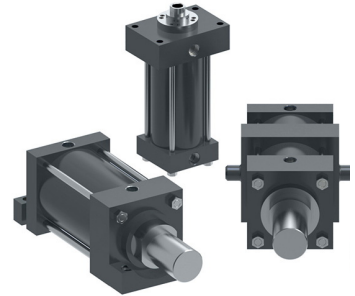


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HEAVY-DUTY TIE ROD NFPA CYLINDERS

- [Hydro-Line N5 series \(Catalog\)](#)
- [Hydro-Line HG series \(Catalog\)](#)
- [Vickers by Danfoss NZ series \(Catalog\)](#)
- [Vickers by Danfoss VG series \(Catalog\)](#)

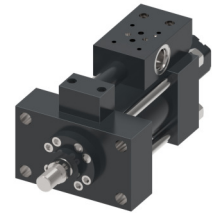


MEDIUM-DUTY TIE-ROD NFPA CYLINDERS

- [Hydro-Line R5/HR5 series \(Catalog\)](#)
- [Vickers by Danfoss RE/RF series \(Catalog\)](#)

ELECTROHYDRAULIC TIE-ROD CYLINDERS

- [Danfoss EH series \(Catalog\)](#)



WELDED CYLINDERS

- [Danfoss WH Series \(Catalog\)](#)



MILL-DUTY CYLINDERS

- [Danfoss Imperial EM series \(Catalog\)](#)
- [Danfoss IM Series \(Catalog\)](#)



THREADED CYLINDERS

- [Hydro-Line TS/HTS series \(Catalog\)](#)
- [Vickers by Danfoss TA/TB series](#)



Registration & Login

Configure & CAD **New Account** **Login**

Part Number Configurator

Search by PN **Find Cylinder**

Part No. TA01EABA1AA00100

Series Air

Bore 2-1/2 Inch

Mounting Style 01 Foot

Rod Size 0.750 Inch

Cushion Position (Rod End) 0

Cushion Position (Blind End) 0

Rod End Type B Standard Male Thread

Rod End Style (Cap) N/A

Piston Seal Type

Info Preview

Brand	Vickers by Danfoss	Request quote for pricing
Series	Spacemaker Air	
Mounting style	Foot	
Bore	2 1/2"	
Cushions	Rod end: - Blind end: -	
Rod end	Rod diameter: 3/4" Type end: 4	
Seals	Type: U Cup Material: Nitrile (Buna-N)	
Port size	NPT	
Port location	Rod end: 1 Blind end: 1	
Limit switch	None	
Stroke	0-1/16"	
Extra Rod Projection	0"	

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

1. If this is the first time visiting the CAD configurator you must set up a new account.
2. If you have account already select the 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

Create new account

Registration & Login

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

* First/Last Name

Address

* City

* State

* ZIP Code

* Country

* Email

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

* Password (6-20 characters) (Show) (Create random password)

* Confirm password (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

Fill out the required information. 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.

Please refer to the Login instructions following registration.



Part Number Configurator

Search by PN

Part No.

Series

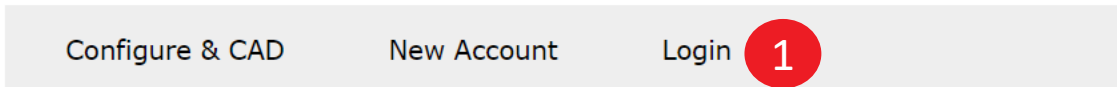
Bore Inch

Info Preview

Brand	Industrial Welded Cylinders	Request quote for pricing
Series	Cap Clevis Mount	
Mounting	3-1/4" Bore, 1-3/8" Rod	
Bore & Rod Diameter	Small Male UN Thread	
Red End Type		

Registration & Login

Vickers by Danfoss WH Series Cylinder Configurator




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

1. After initial Login during registration you will need to use the Login button shown to start the process of quoting.
2. Enter your email
3. Enter your password
4. Select the Login button.

Online CAD Configurator User Guide- Standard Cylinder or Parts

Configure & CAD

Pricing & Lead Time

My Account

Logoff

Pricing & Lead Time

Enter

SKU

Quantity

Enter

This page is the beginning to what ever you are starting to quote. If you have a standard cylinder you can go to the Pricing & Lead Time. The below screen is what you will see.

Configure & CAD

Pricing & Lead Time

My Account

Logoff

Pricing & Lead Time

Enter

SKU

Quantity

Enter

Online CAD Configurator User Guide- Standard Cylinder or Parts

Pricing & Lead Time

Enter Price & Leadtime Cart View

SKU

Quantity

1. There are several options for the information that can go into the box. Standard part numbers that do not have an "X" in the part number, some Design Codes you will be able to quote along with Accessories.
2. The discount will auto populate when you select the "Enter" button.
3. Select the Enter button.

Pricing & Lead Time

Enter Price & Leadtime Cart View

<input type="button" value="RF"/>	Brand	Vickers by Danfoss	Price Components	
<input type="button" value="10"/>	Series	1500 PSI Medium Duty Hydraulic	Base Price	\$713.00
<input type="button" value="GE"/>	Mounting	Cap Fixed Clevis	Stroke	\$176.00
<input type="button" value="5"/>	Bore & Rod Diameter	3-1/4" Bore, 1" Rod	(10" Gross Stroke @ \$17.60)	
<input type="button" value="N"/>	Rod End Type	Small male UN Thread	List Price	\$889.00
<input type="button" value="1"/>	Seal Options	Normal	Less 35.00% Discount	\$311.15
<input type="button" value="K"/>	Port Options	NPTF	Net Price	\$577.85
<input type="button" value="A"/>	Port Location	Head: 1 Cap: 1		
<input type="button" value="100"/>	Cushion Location	Head: - Cap: -		
	Cylinder Stroke	10"		

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:

Online CAD Configurator User Guide- Standard Cylinder or Parts

Pricing & Lead Time

The screenshot displays the 'Price & Leadtime' tab of the Online CAD Configurator. The interface is divided into several sections:

- Navigation:** 'Enter', 'Price & Leadtime', and 'Cart View' buttons are visible at the top.
- Configuration Options:** A vertical list of red buttons on the left allows users to select options: RF, 10, GE, 5, N, 1, K, A, and 100.
- Specifications Table:** A table in the center lists configuration details:

Brand	Vickers by Danfoss
Series	1500 PSI Medium Duty Hydraulic
Mounting	Cap Fixed Clevis
Bore & Rod Diameter	3-1/4" Bore, 1" Rod
Rod End Type	Small male UN Thread
Seal Options	Normal
Port Options	NPTF
Port Location	Head: 1 Cap: 1
Cushion Location	Head: - Cap: -
Cylinder Stroke	10"
- Price Breakdown:** A table on the right shows the cost components:

Region:	North America
Price Components	
Base Price	\$713.00
Stroke	\$176.00
(10" Gross Stroke @ \$17.60)	
List Price	\$889.00
Less 35.00% Discount	\$311.15
Net Price	\$577.85
- Shipping & Comments:** Below the price breakdown, it states 'Normally ships in 5 business day(s)'. A note indicates that the discount is only applicable for online orders. A 'Comment:' field with a text input area is provided for optional comments or instructions.
- Action:** An 'Add to Cart' button is located at the bottom right of the configuration area.

1. The first part of the quote will give you the information you entered for the cylinder. You can go back to the Enter button to make changes to the cylinder part number. A catalog with information regarding each selection on the cylinder part number is located on slide 5.
2. The second section is a breakdown of the prices associated with the cylinder.
3. The final section allows you to add the cylinder to your cart for check out. More on ordering in later slides.
4. The cart view gives you more of a direct look at the information you selected.

Online CAD Configurator User Guide- Standard Cylinder or Parts

Pricing & Lead Time

Part #/Description	Quantity	List Price	Discount%	Net Price
RF10GE5N1KA10000 (Get CAD) <ul style="list-style-type: none"> Brand: Vickers by Danfoss Series: 1500 PSI Medium Duty Hydraulic Mounting: Cap Fixed Clevis Bore & Rod Diameter: 3-1/4" Bore, 1" Rod Rod End Type: Small male UN Thread Seal Options: Normal Port Options: NPTF Port Location: Head: 1 Cap: 1 Cushion Location: Head: - Cap: - Cylinder Stroke: 10" Normally ships in 5 business day(s)	1	\$889.00	35.00%	\$577.85

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.

Pricing & Lead Time

Enter	Price & Leadtime	Cart View
RF 10 GE S N 1 K A 100	Brand: Vickers by Danfoss Series: 1500 PSI Medium Duty Hydraulic Mounting: Cap Fixed Clevis Bore & Rod Diameter: 3-1/4" Bore, 1" Rod Rod End Type: Small male UN Thread Seal Options: Normal Port Options: NPTF Port Location: Head: 1 Cap: 1 Cushion Location: Head: - Cap: - Cylinder Stroke: 10"	Region: North America Price Components Base Price: \$713.00 Stroke: \$176.00 (10" Gross Stroke @ \$17.60) List Price: \$889.00 Less 35.00% Discount: \$311.15 Net Price: \$577.85 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: <input type="text" value="Optional comment or instructions"/> <input type="button" value="Add to Cart"/>

When you are ready to add to the cart you will hit the "Add to Cart".

Online CAD Configurator- Ordering

An embedded page at danfoss.scscpq.com says

Add RF10GE5N1KA10000 to cart?

Next you would either Update Cart or Remove from Cart

Pricing & Lead Time

Enter Price & Leadtime Cart View

RF	Brand	Vickers by Danfoss	Region: North America
10	Series	1500 PSI Medium Duty Hydraulic	Price Components
GE	Mounting	Cap Fixed Clevis	Base Price \$713.00
S	Bore & Rod Diameter	3-1/4" Bore, 1" Rod	Stroke \$176.00
N	Rod End Type	Small male UN Thread	(10" Gross Stroke @ \$17.60)
1	Seal Options	Normal	List Price \$889.00
K	Port Options	NPTF	Less 35.00% Discount \$311.15
A	Port Location	Head: 1 Cap: 1	Net Price \$577.85
100	Cushion Location	Head: - Cap: -	
	Cylinder Stroke	10"	

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

Added RF10GE5N1KA10000

An embedded page at danfoss.scscpq.com says

Remove RF10GE5N1KA10000 from cart?

Online CAD Configurator- Ordering

[Configure & CAD](#)[Dashboard](#)[My Account](#)[RFQ/Order Cart \(1\)](#)[Logoff](#)

Shopping Cart

Del?	Line#	Part #/Description	Quantity	List Price	Discount%	Net Price
<input type="checkbox"/>	1	RF10GE5NIKA10000 (Get CAD) <ul style="list-style-type: none">• Brand: Vickers by Danfoss• Series: 1500 PSI Medium Duty Hydraulic• Mounting: Cap Fixed Clevis• Bore & Rod Diameter: 3-1/4" Bore, 1" Rod• Rod End Type: Small male UN Thread• Seal Options: Normal• Port Options: NPTF• Port Location: Head: 1 Cap: 1• Cushion Location: Head: - Cap: -• Cylinder Stroke: 10" Normally ships in 5 business day(s) Comment: <input type="text" value="Optional comment or instructions"/>	<input type="text" value="1"/>	\$889.00	35.00%	\$577.85

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](#)**1****3****2**

1. The Update Cart will allow you to change your order.
2. The Clear Cart will empty the cart and you can start over.
3. The check out button will take you to a check out section that you will need to fill out.

Online CAD Configurator- Ordering



<https://danfoss.com>

Sold To

Company Name Danfoss
Name Dean Sieler
Address 1
City Jackson **1**
State/Province Michigan
Zip/Postal Code 49202
Country United States
Email dean.sieler@danfoss.com

Ship To

*Company Name Danfoss
*Name Dean Sieler
*Address 1 **2**
*City Jackson
*State Michigan
*ZIP Code 49202
*Country United States

*Indicates mandatory fields

Type	PO#	Ship Via	Comment		
3	4	5	6		
Line#	Part #/Description	Quantity	List Price	Discount%	Net Price
1	RF10GE5N1KA10000 (Get CAD) <ul style="list-style-type: none">Brand: Vickers by DanfossSeries: 1500 PSI Medium Duty HydraulicMounting: Cap Fixed ClevisBore & Rod Diameter: 3-1/4" Bore, 1" RodRod End Type: Small male UN ThreadSeal Options: NormalPort Options: NPTFPort Location: Head: 1 Cap: 1Cushion Location: Head: - Cap: -Cylinder Stroke: 10" Normally ships in 5 business day(s)	1	\$889.00	35.00%	\$577.85

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 >>](#)

7

1. First section make sure the Sold to information is correct.
2. Ship to information complete.
3. Select type "Quote or Order".
4. PO # added.
5. The shipping company you want to use.
6. Any comments you want to add to the order.
7. Review order and select Complete if everything is correct.

Online CAD Configurator User Guide- Custom Cylinders

Part Number Configurator

Search by PN 1

Part No.

Model Series

Series 2

Mounting Style 4

Bore Inch

Working Stroke Inch

Minimum Stroke Limitations

Stroke Warning

Rod Position

Rod Position Stroke

Extra Rod Projection


Info CAD & Preview Calculations Calculations Help

Brand	Vickers by Danfoss	Price Components
RE Series	250 PSI Pneumatic Cylinders	Base Price \$713.00
01 Mounting	Side Lug	Stroke \$17.60
GE Bore & Rod Diameter	3-1/4" Bore, 1" Rod	(1" Gross Stroke @ \$17.60)
5 Rod End Type	Small male UN Thread	List Price \$730.60
N Seal Options	Normal	Normally ships in 5 business day(s)
I Port Options	NPTF	Comment:
K Port Location	Head: 1 Cap: 1	Optional comment or instructions
A Cushion Location	Head: - Cap: -	<input type="button" value="Add to Cart"/> 3
001 Cylinder Stroke	0-1/16"	

Mounting Style

RE01GE5N1KA00100

RE01GE5N1KA00100

1. You can put the part number in the search box and select the "Find Cylinder". If the cylinder is found, you will see the information on the right side of the screen.
2. You can also build the cylinder with what you want in the section on the left. As you change selections on the left the information on the right will update in real time.
3. Once you have completed the cylinder to what you are wanting select the Add to Cart button and follow the same instructions as in the previous section.
4. Additional information is available by selecting the black circles with the , a brief pop up will explain what is available.



Online CAD Configurator User Guide- Accessories

Pricing & Lead Time

Enter Speed Number Cart View

SKU FRC-1500-10

Quantity 1

Discount 35.00 %

Country United States

Best Price?

Enter

1. Put Accessory part number in the SKU box.
2. Discount will auto populate when you select enter.
3. Select Enter to see price of item.

Pricing & Lead Time

Enter Speed Number Cart View

Speed Number FRC-1500-10

Brand(s) Danfoss

Description ROD CLEVIS ASSY

List Price \$349.50

Less 35.00% Discount **\$122.33**

Net Price \$227.17

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

Add to Cart

4. Add to cart and follow same instructions in previous section to complete purchase .

Export Data Sheet

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) Inch

Info **CAD & Preview** Calculations Calculations Help

NZ	Brand	Vickers by Danfoss	Price Components
01	Series	ANSI B93.15/NFPA Interchangeable Hydraulic cylinder	Base Price \$1,064.00
GH	Mounting Style	Side Lug	Seal options \$0.00
S	Bore & Rod Diameter	3-1/4" Bore, 1-3/8" Rod	Cushions \$0.00
N	Rod End Type	Small Male UN Thd.	Stroke \$21.10
1	Seal Options	Normal	(1" Gross Stroke @ \$21.10)
K	Port Options	Standard NPTF (Not recommended for maximum reliability on new applications)	Port options \$0.00
A	Port Location	Head: 1 Cap: 1	List Price \$1,085.10
001	Cushion Location	Head: - Cap: -	Normally ships in 5 business day(s)
	Cylinder Stroke	0-1/16"	Comment: Optional comment or instructions

[Add to Cart](#)

Select Download for PDF datasheet

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

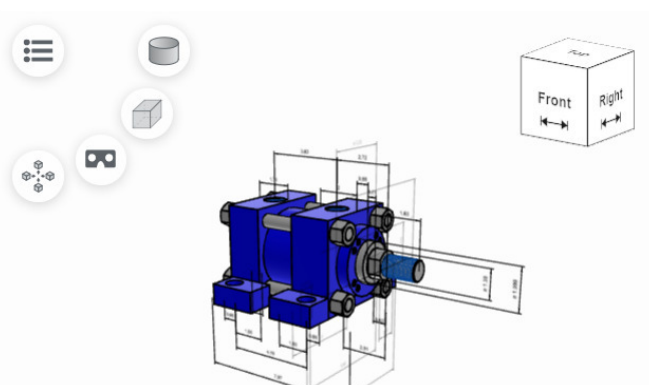
Info CAD & Preview **Calculations** Calculations Help

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

NZ01GH5N1KA00100_ZR00 (PDF)

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

3D Dimension 2D

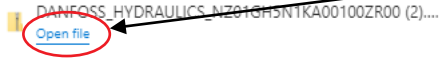


Export Data Sheet

Downloads

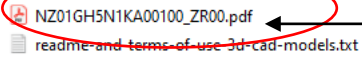


Click on Open file



Name

Type



Adobe Acrobat Document

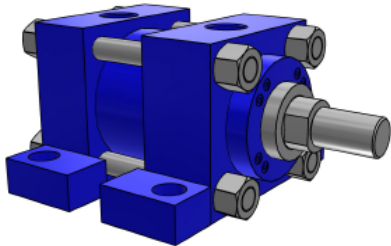
Double click pdf file

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

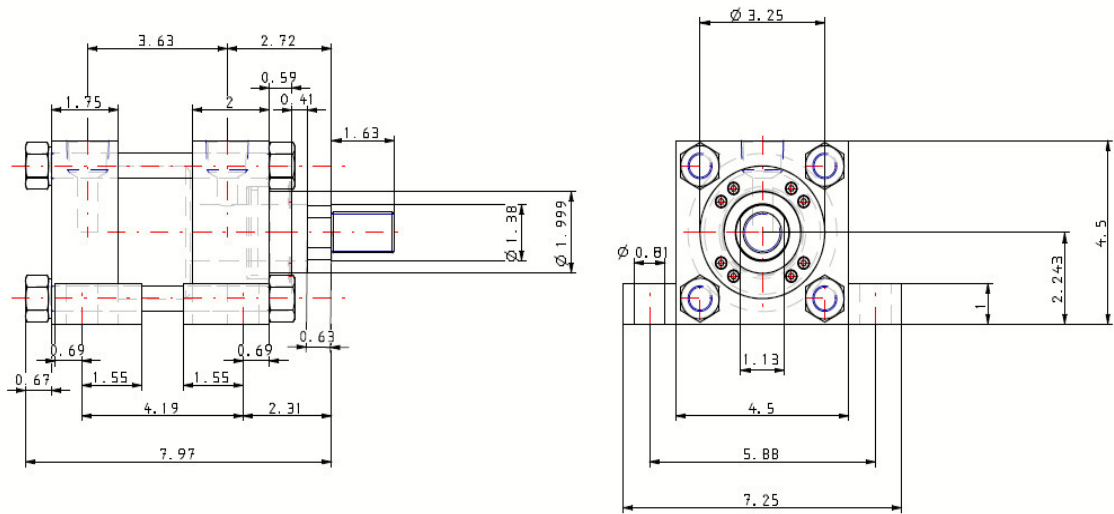
Part Number: NZ01GH5N1KA00100



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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Port Position



UNLESS OTHERWISE SPECIFIED

All Dimensions noted in inches unless otherwise specified.
Dimensioning per ANSI Y14.5
Work to dimensions & DO NOT SCALE PRINT

Danfoss

THIRD ANGLE PROJECTION

DWG. NO.:

DWG. TITLE:

CYLINDER ASSEMBLY

NZ01GH5N1KA00100

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

ENGINEERING
TOMORROW

Danfoss

For questions, please contact your CSR.
Call 888-258-0222 option #1, option #4

Danfoss Power Solutions, Nordborgvej 81, 6430 Nordborg, Denmark
Tel. +45 74 88 22 22, Fax +45 74 65 25 80 www.danfoss.com, E-mail: info@danfoss.com

Any information, including, but not limited to information on selection of product, its application or use, product design, weight, dimensions, capacity or any other technical data in product manuals, catalogues descriptions, advertisements, etc. and whether made available in writing, orally, electronically, online or via download, shall be considered informative, and is only binding if and to the extent, explicit reference is made in a quotation or order confirmation. Danfoss cannot accept any responsibility for possible errors in catalogues, brochures, videos and other material. Danfoss reserves the right to alter its products without notice. This also applies to products ordered but not delivered provided that such alterations can be made without changes to form, fit or function of the product. All trademarks in this material are property of Danfoss A/S or Danfoss group companies. Danfoss and the Danfoss logo are trademarks of Danfoss A/S.