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**We power the industry that powers the world.**

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## Introduction

We have redesigned the website to improve customer experience, and aid in getting to your favorite pipe models and spare parts faster.

This document describes features and navigation details for this website.

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## Key Features

The following are some of the key features of the website:

- Traverse through catalog hierarchy.
- Search for a model.
- Review pipe model details.
- Review details for different spare parts that go into a model.

Website has various features to make the whole experience of searching and viewing parts very seamless.

## Getting to the Website

User can get to the website from multiple sources:

- From the website <https://www.nov.com/products-and-services/tools>, user can navigate to new website. First, navigate to following website as shown in figure 1a,

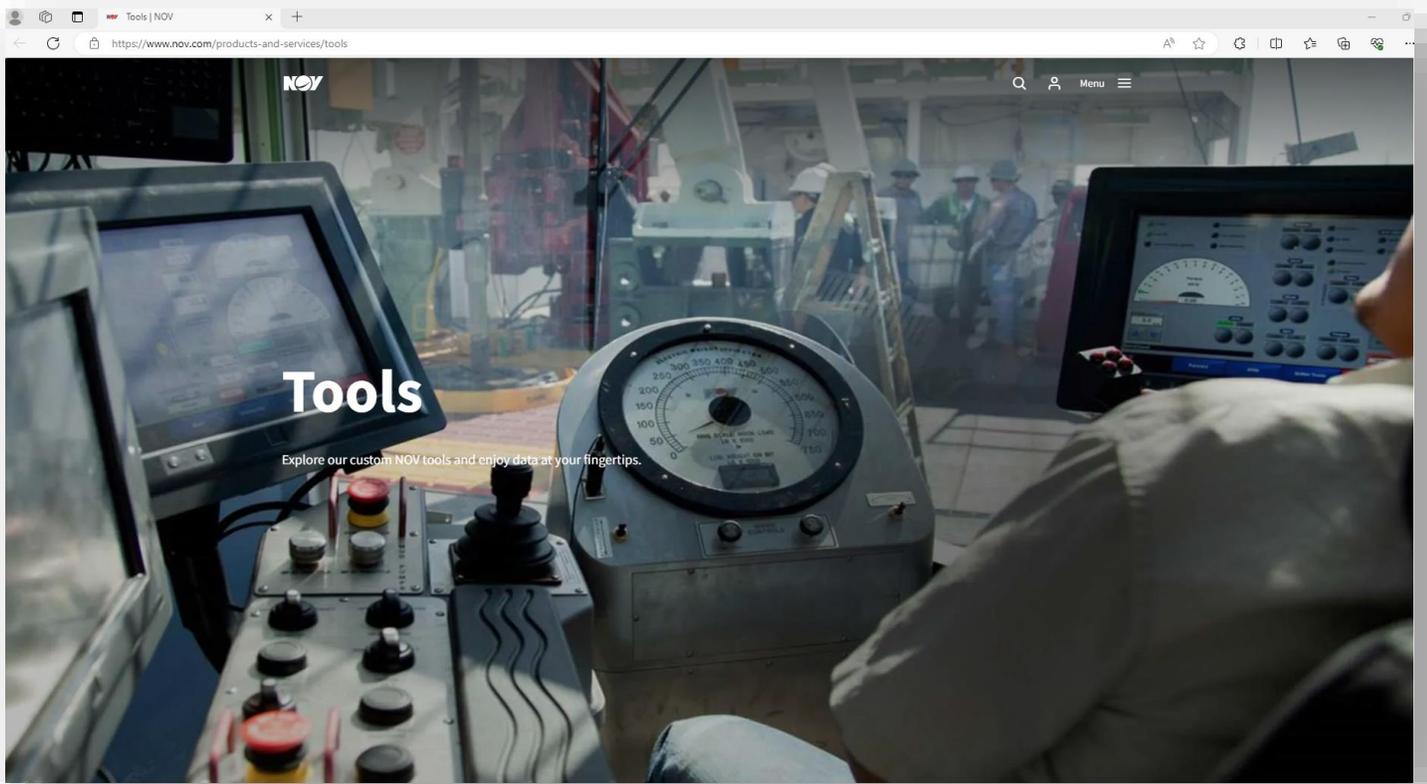


Figure 1a: website <https://www.nov.com/products-and-services/tools>

Now, scroll down to click on the hyperlink circled below in figure 2a,

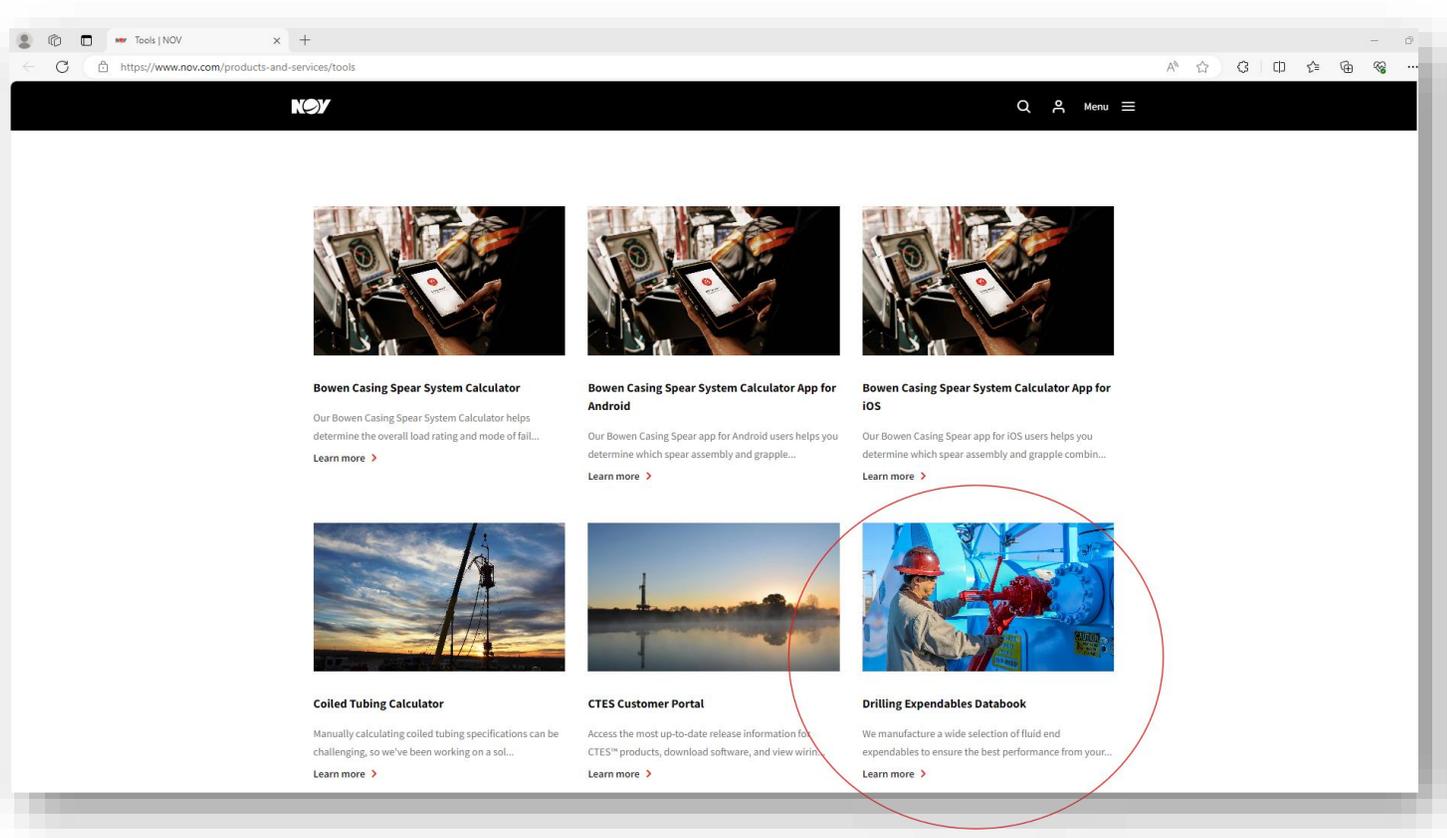


Figure 2a: link to the new website

- With an eye on more product catalogs planned in near future, we have a domain called <https://productcatalog.nov.com/>. We will make sure that if a user uses the said domain, they will be navigated to the new website.
- From the website <https://www.nov.com/products-and-services/brands/mission>, user can navigate to new website. First, navigate to following website as shown in figure 1b,

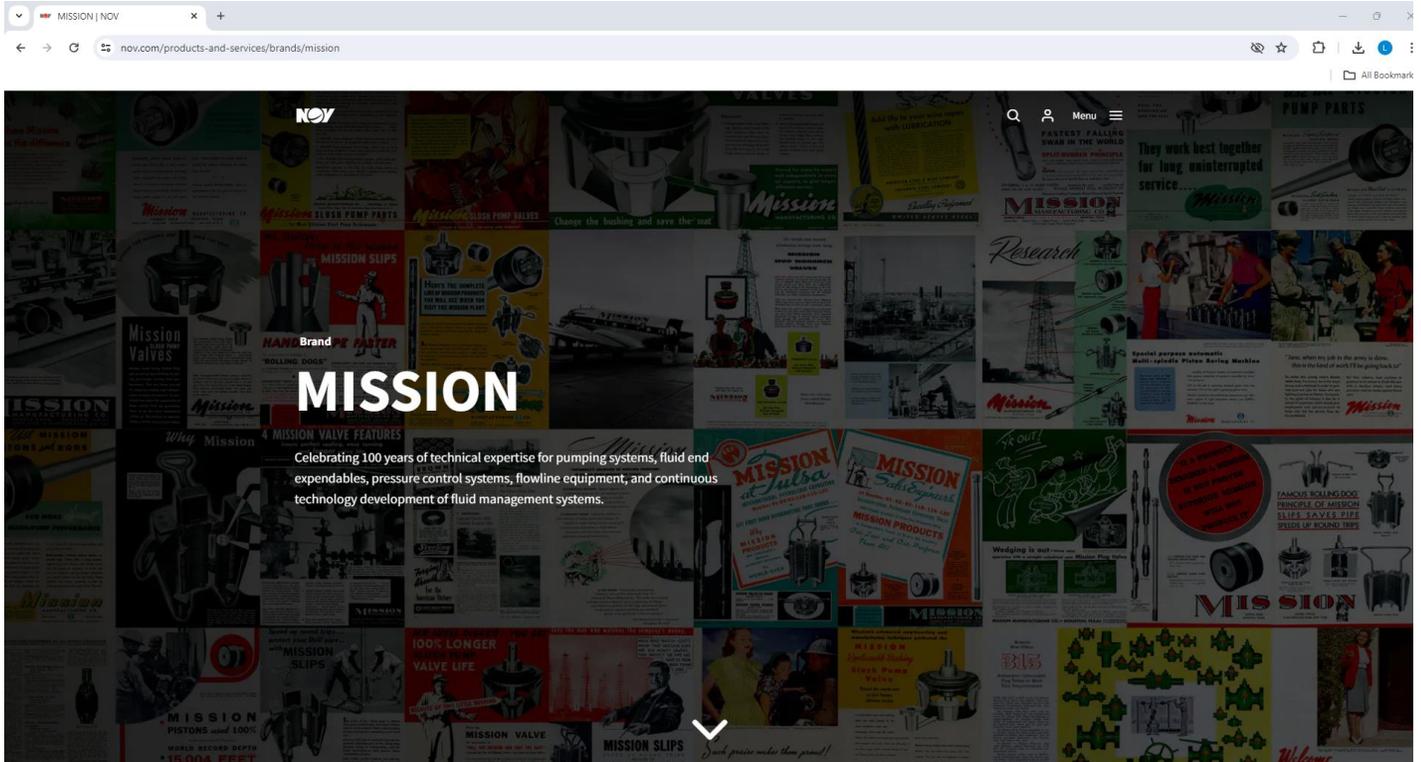


Figure 1b: website <https://www.nov.com/products-and-services/brands/mission>

Now, scroll down to click on the hyperlink circled below in figure 2b,

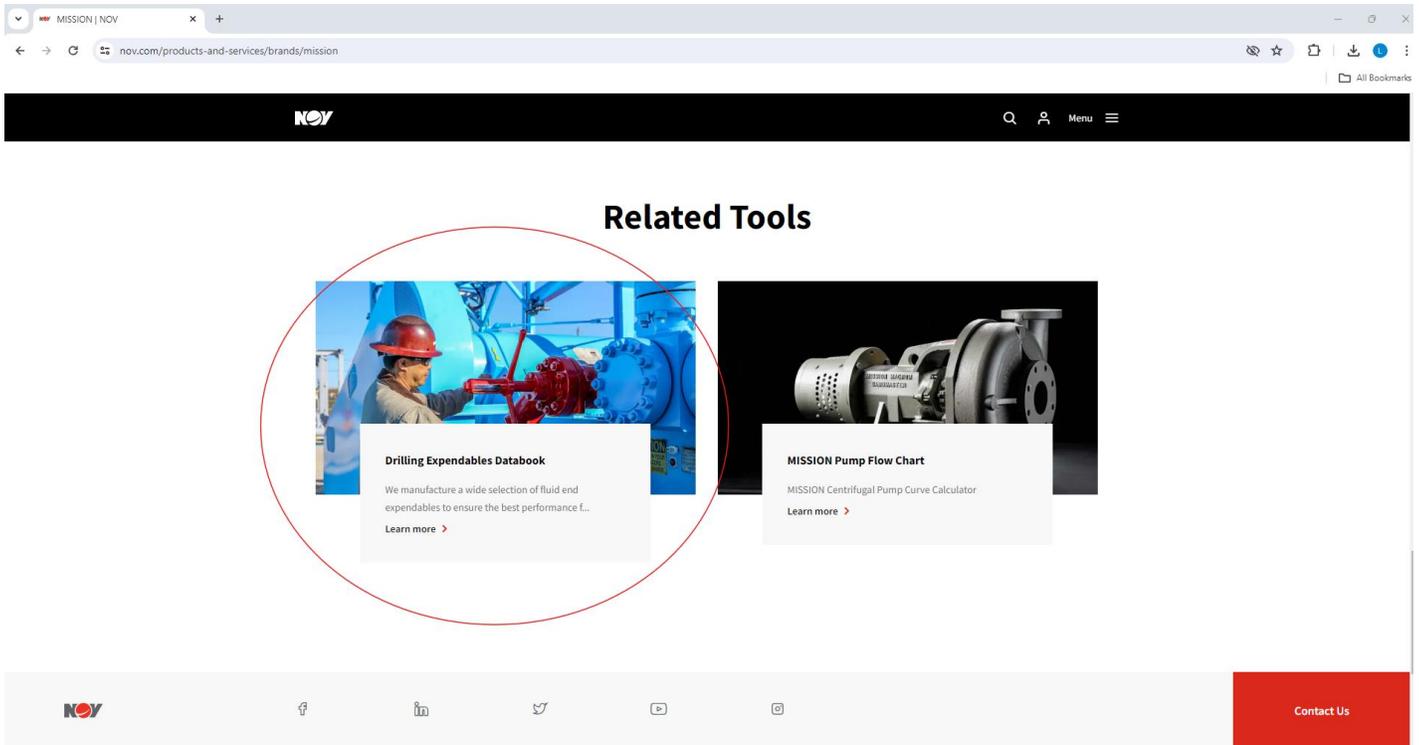


Figure 2b: link to the new website.

New website direct URL is following: <https://ProductCatalog.nov.com/MissionCatalog>

## Website User Scenarios

Although the website is very intuitive, we will explain a few user scenarios here.

A website user will see the following page when they land on the website from the nov.com domain.

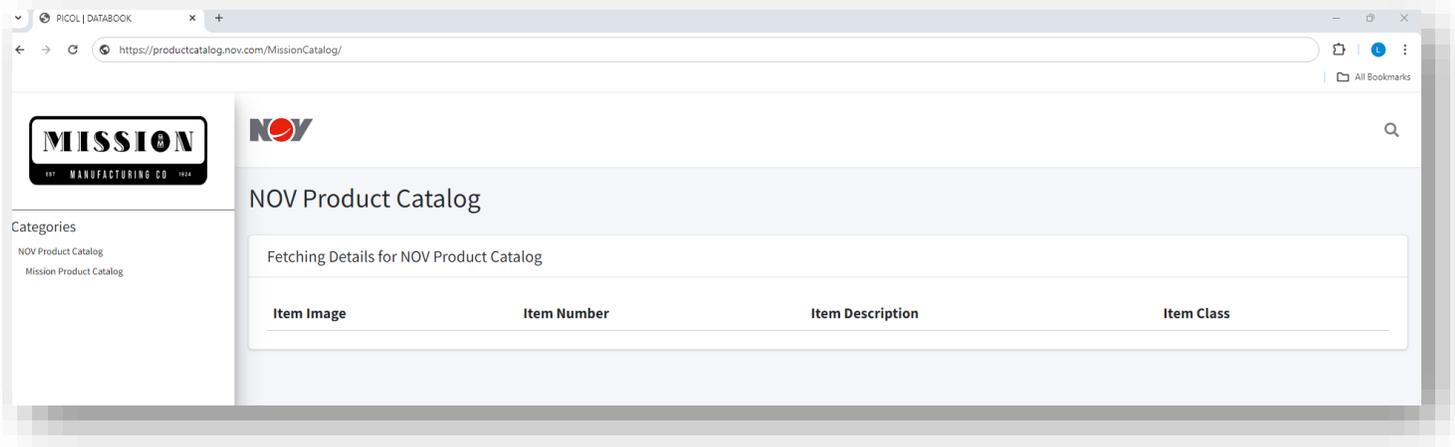


Figure 3: Home page

## Left Pane for Navigation

User can navigate to a desired model by traversing the catalog tree in the left pane as shown below in figure 4.

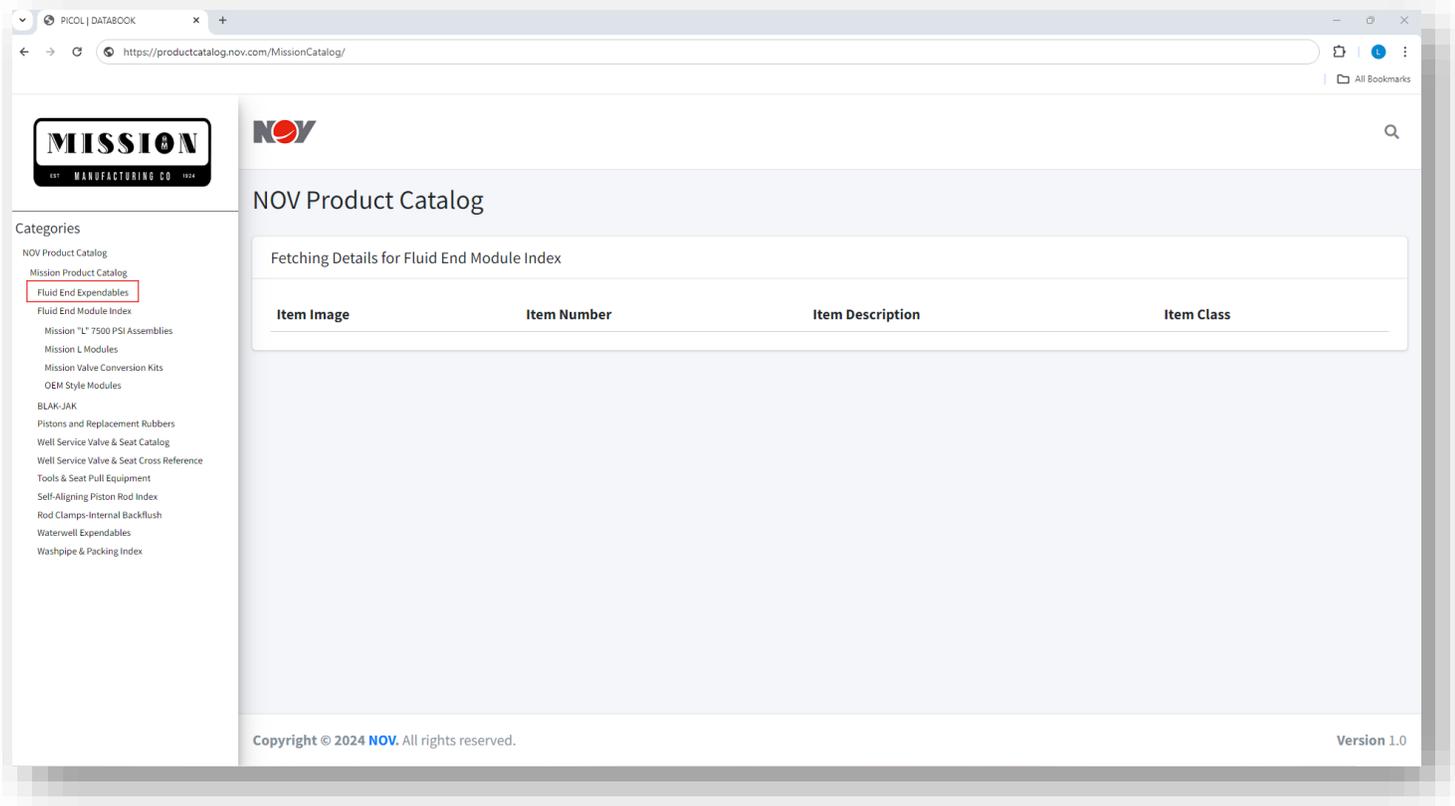


Figure 4: Left pane navigation

As you can see, the catalog hierarchy is shown with children catalogs made visible when user clicks on the parent catalog name. In figure 4, if you click on Fluid End Expendables, they will see below tree structure.

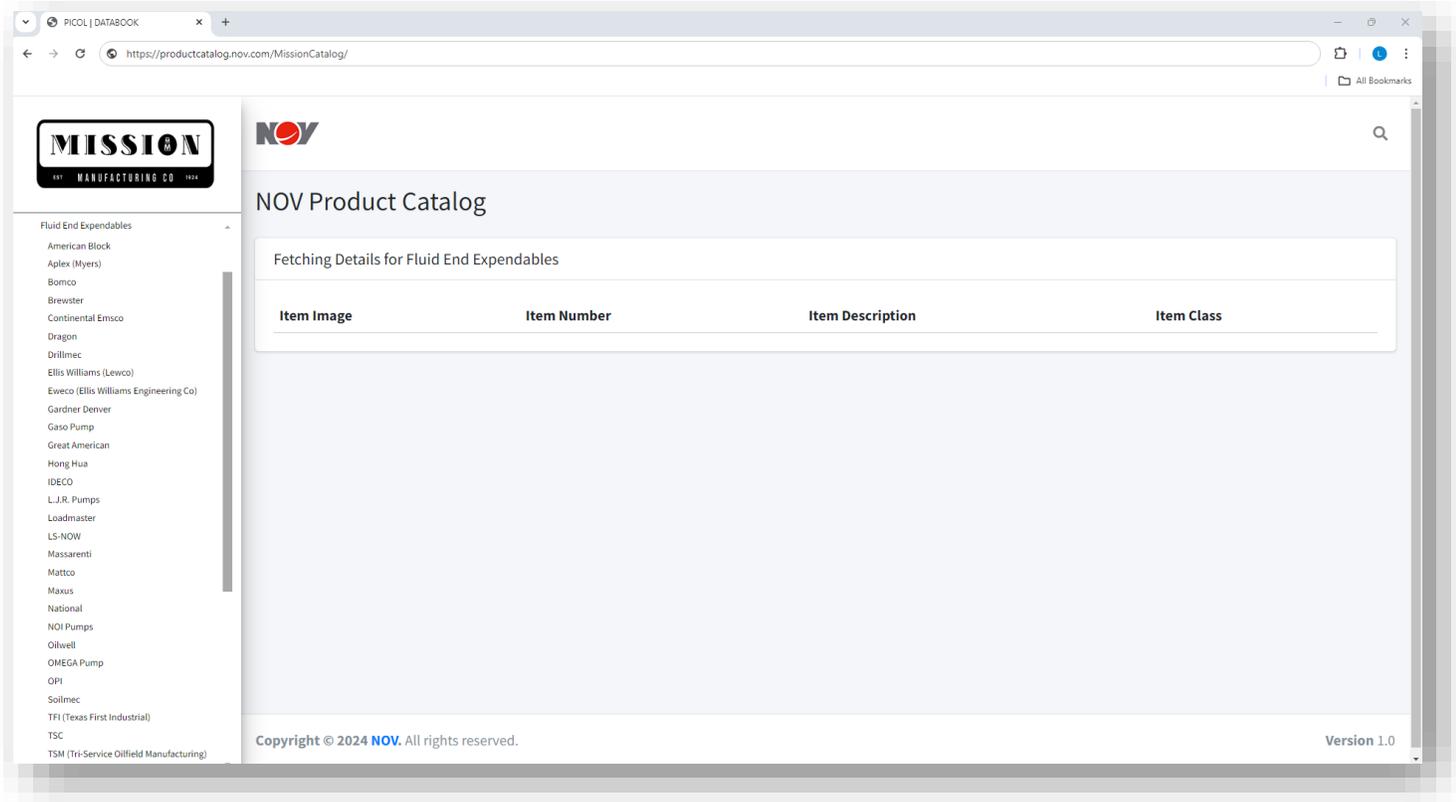


Figure 5: Expanding a parent catalog category

Notice a vertical scrollbar in the left pane, allowing user to scroll down and traverse catalog hierarchy.

## Getting to a Model

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User can get to the model of their interest by 2 ways,

1. Traverse the catalog hierarchy in the left pane as shown in figure 6a below, user can traverse the catalog hierarchy and select a leaf category that you are interested in.

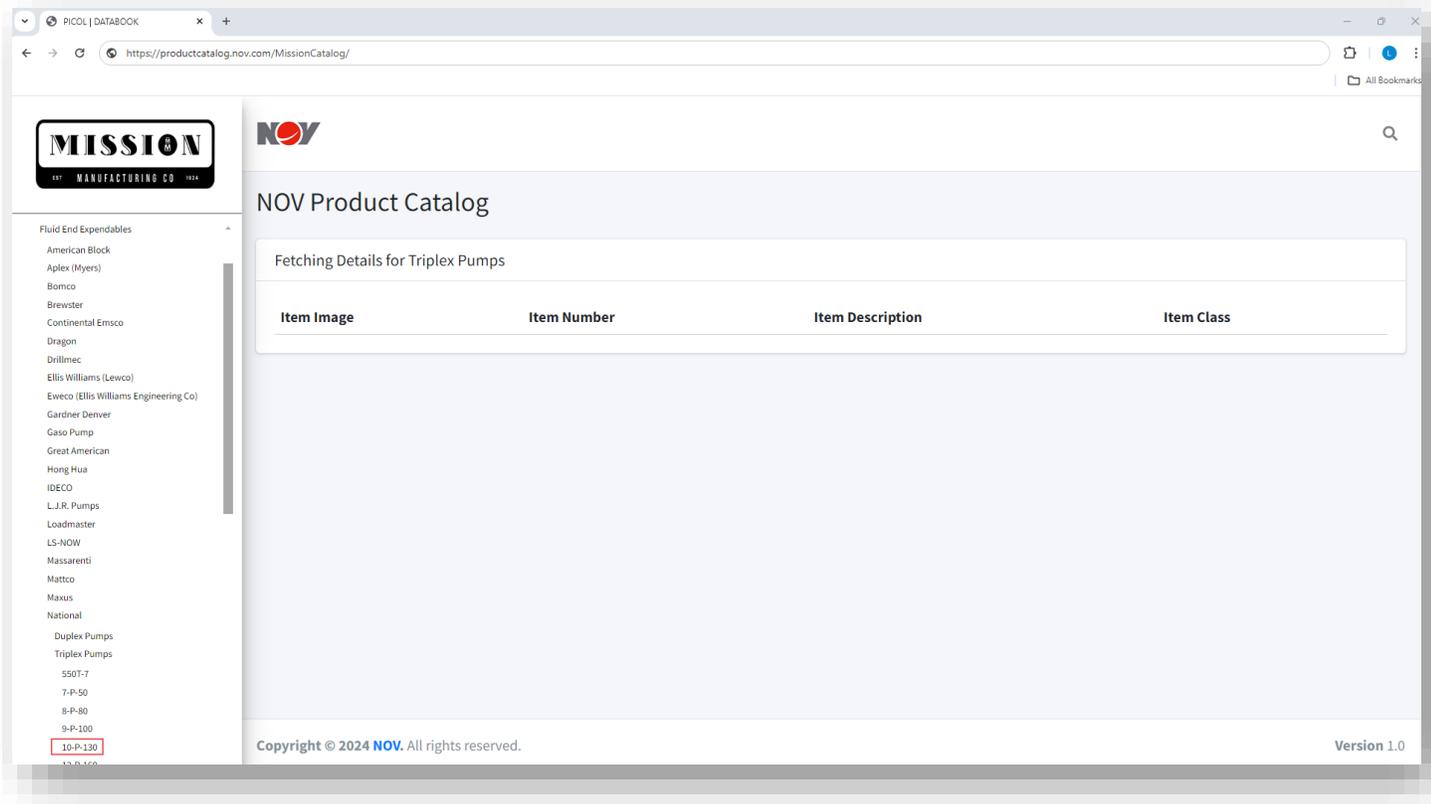


Figure 6a: selecting a leaf category that model resides in

Once you select a desired category, the models in that category appear in the right pane; see figure 6b below.

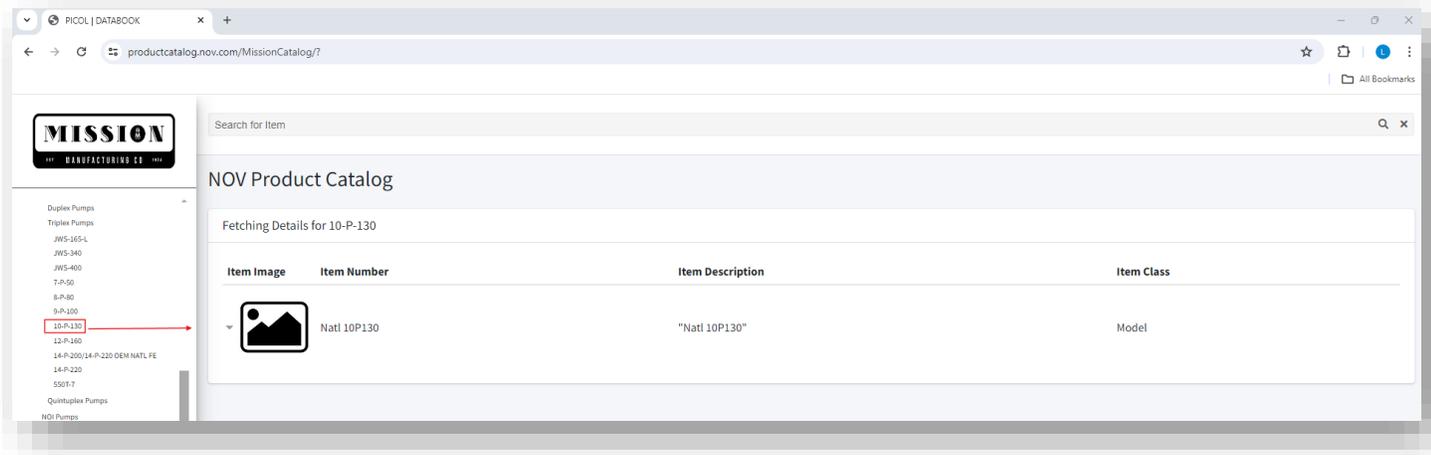


Figure 6b: models in the selected leaf category

2. User can also enter the model number in the right pane top search bar as shown in the figure 6c below,

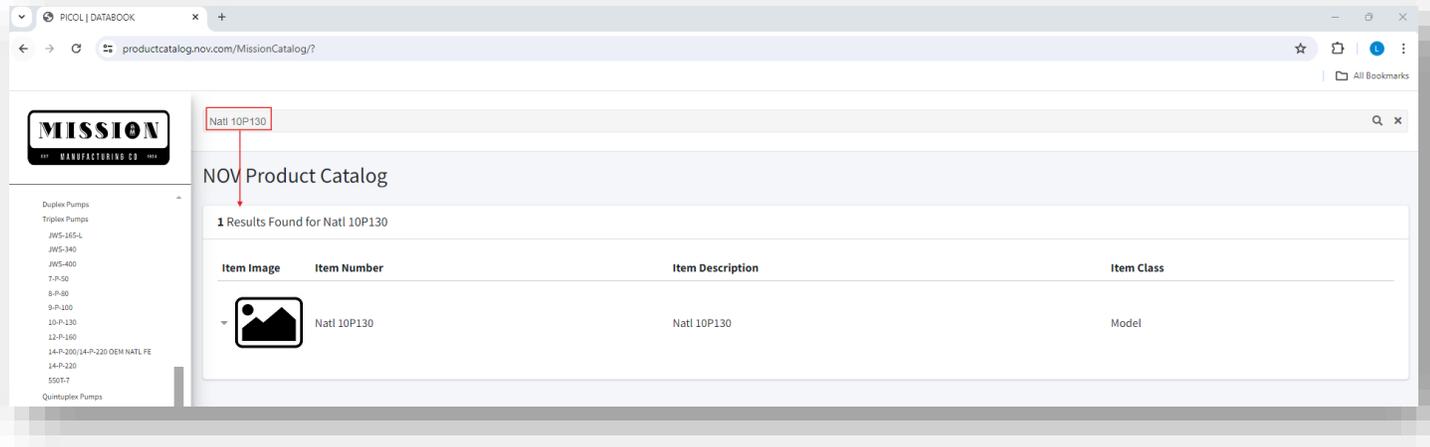


Figure 6c: searching for a model directly

In this scenario, depending how many models are returned in the search results, you may get more than 1 record as below,

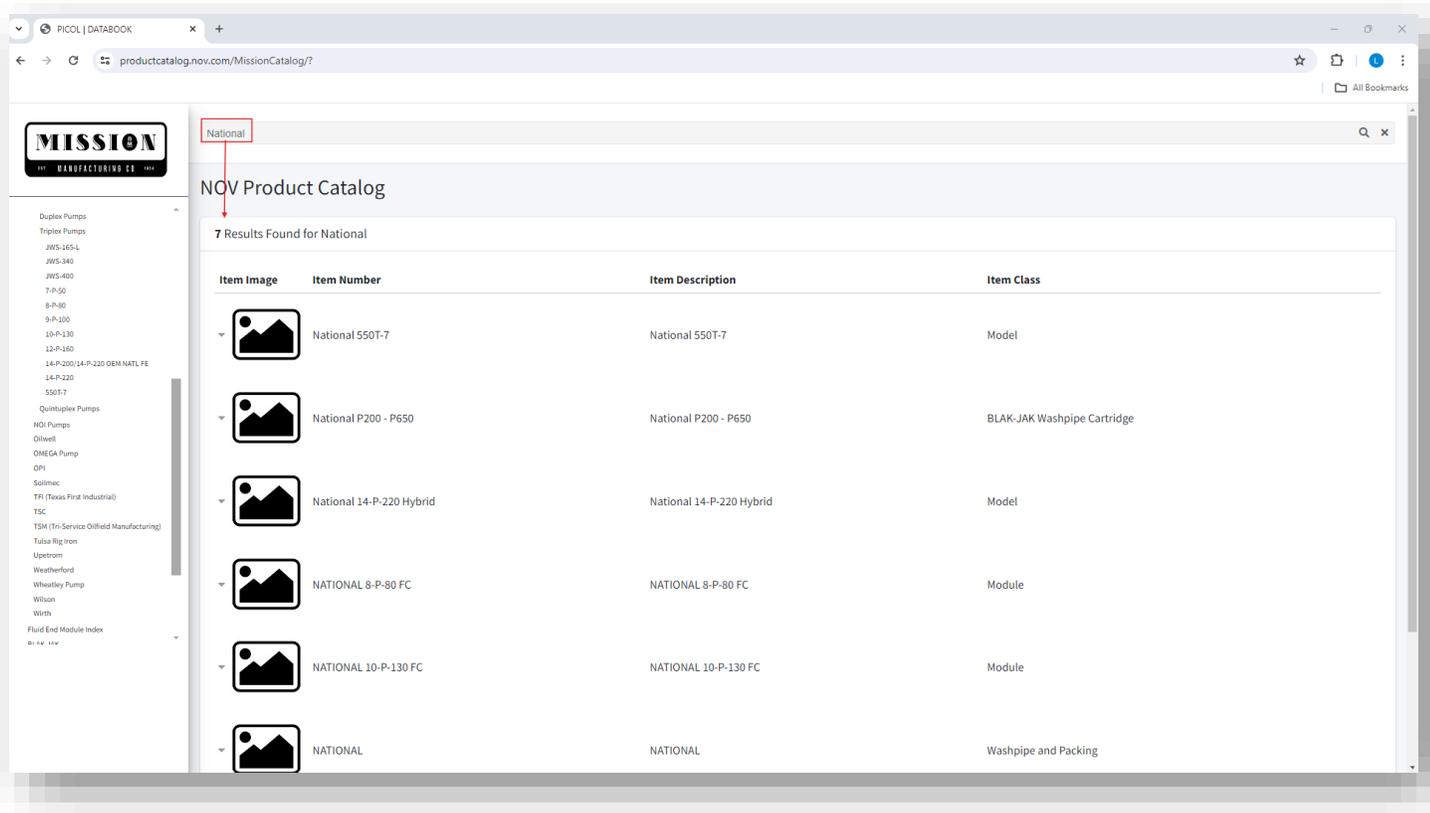


Figure 6c: Getting multiple search results

## Review Model details

Once user has selected a model or searched for one, they should see following in the right pane when they click on the model of interest. We will use the example of *National 10 P 130* model.

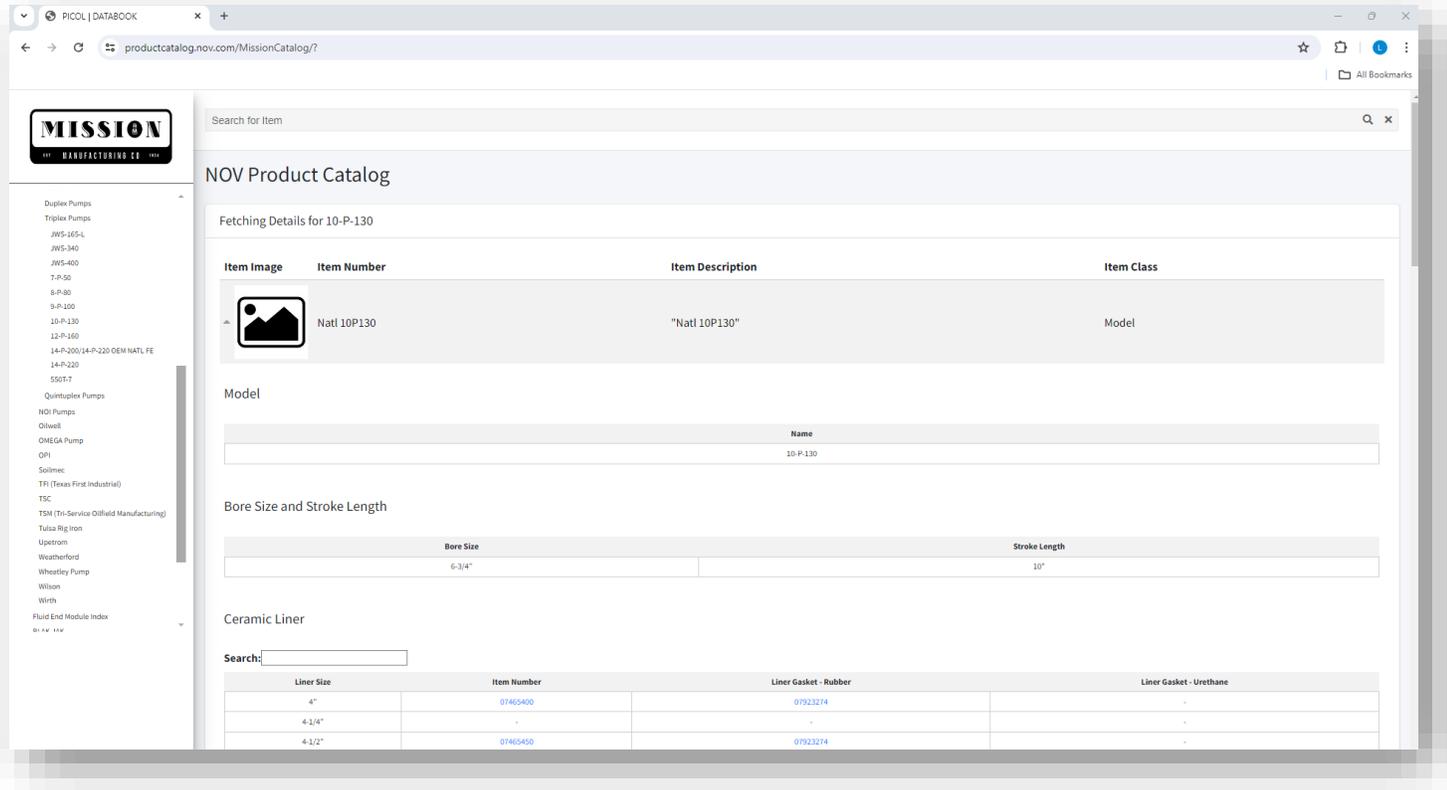


Figure 7 Example model details screen

A typical model screen for Mission Product Catalog will show the following sections representing different attribution for that pipe model.

### Model

This section is a table that shows the model number. See figure below,



Figure 7a: model number

### Bore Size and Stroke Length

Bore size and stroke length for the pipe model.

Bore Size and Stroke Length

Bore Size	Stroke Length
6-3/4"	10"

Figure 7b: Bore Size and Stroke Length

Ceramic Liner

Various ceramic liner part numbers by liner size and type.

Ceramic Liner

Search:

Liner Size	Item Number	Liner Gasket - Rubber	Liner Gasket - Urethane
4"	<a href="#">07465400</a>	<a href="#">07923274</a>	-
4-1/4"	-	-	-
4-1/2"	<a href="#">07465450</a>	<a href="#">07923274</a>	-
4-3/4"	-	-	-
5"	<a href="#">07465500</a>	<a href="#">07923265</a>	<a href="#">07211011</a>
5-1/4"	-	-	-
5-1/2"	<a href="#">07465550</a>	<a href="#">07923263</a>	<a href="#">07211005</a>
5-3/4"	-	-	-
6"	<a href="#">07465600</a>	<a href="#">07923261</a>	<a href="#">07211004</a>
6-1/4"	-	-	-
6-1/2"	-	<a href="#">07923283</a>	-
6-3/4"	-	-	-
7"	-	-	-
7-1/4"	-	-	-
7-1/2"	-	-	-
7-3/4"	-	-	-
8"	-	-	-

Figure 7c: Ceramic Liner

Notice that the part numbers are hyperlinks. You can click on a part number to see more details. This brings up a pop-up window to show more details of the part number as below.

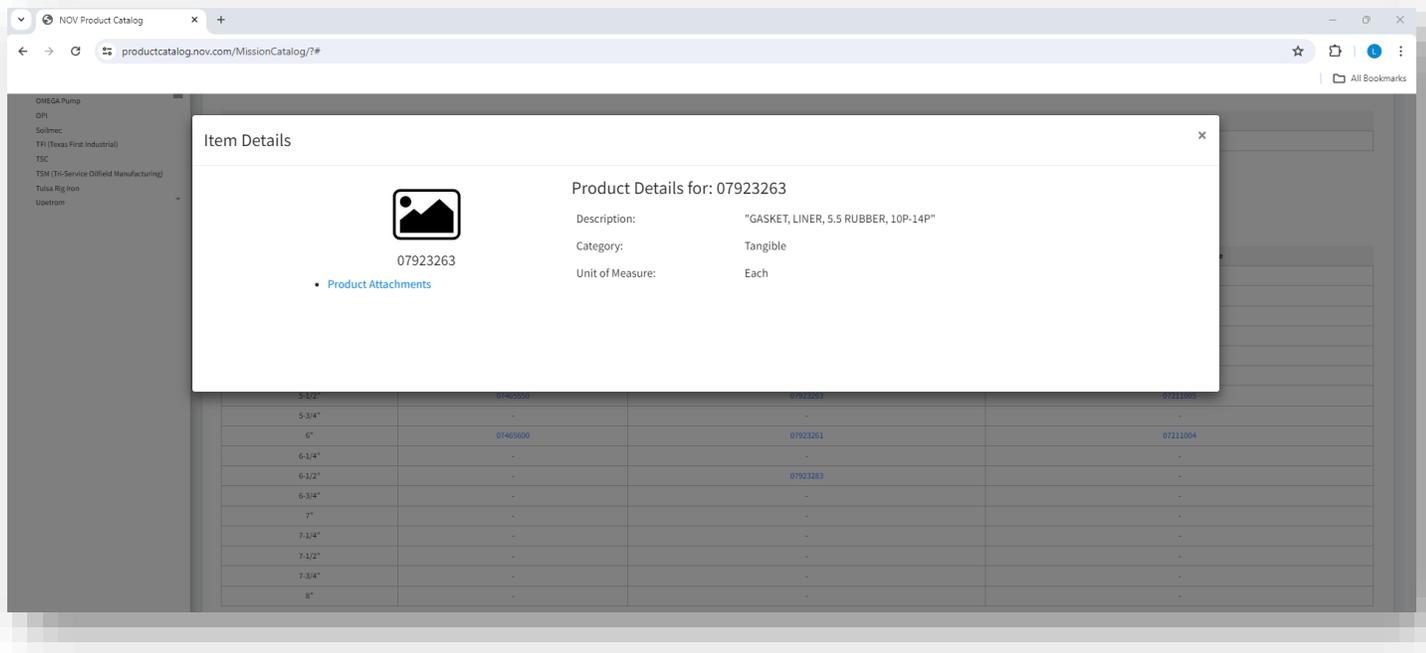


Figure 7d: Part number pop-up window

This popup will show limited information for a part number. It will show Description, NOV Internal Category Type, and Unit of Measure.

Supreme Liner - Triplex

This information is like *Ceramic Liner* sub-section above.

Valves Seats Springs and Inserts

Different part numbers for valve seats and inserts of different sizes and types.

Valves Seats Springs and Inserts

Name	Roughneck	Roughneck HP	Roughneck Bonded	Supreme	FKN	Service Master	FK1	Silver Top	SMII
Valve - White Lightning Insert	9700367	9700359	-	060152809	-	-	-	-	-
Valve - Urethane Insert	9700285	9700353	-	060152808	1560995	-	-	-	-
Valve - Rubber Insert	9702601	-	-	060122702	1560994	-	-	-	-
Seat	9702555	9702555	-	061102604	1561450	-	-	-	-
Spring	08201684	08201684	-	055413421	1560701	-	-	-	-
Spring - Stainless	-	-	-	055402945	-	-	-	-	-
Insert - Urethane	9705090	PFOGI	-	062400106	1560587	-	-	-	-
Insert - Rubber	9705155	-	-	062400056	1560588	-	-	-	-

Figure 7e: Valves Seats Springs and Inserts

Gaskets and Rod Packing

Different part numbers for gaskets and rod packing of different sizes and types.

Gaskets and Rod Packing

Search:

Name	Type	Item Number
Valve Cover	OEM	<a href="#">1540137</a>
Valve Cover	OEM Urethane	<a href="#">1540126</a>
Valve Cover	L Style	<a href="#">07207128</a>
Valve Cover	L Style Urethane	-
Valve Cover	L Style White Lightning	-
Cylinder Head	OEM	-
Cylinder Head	OEM Urethane	-
Cylinder Head	L Style	-
Cylinder Head	L Style Urethane	-
Cylinder Head	L Style White Lightning	-
Wear Plate	OEM	<a href="#">1290344</a>
Wear Plate	OEM Urethane	<a href="#">07211023</a>
Wear Plate	L Style	<a href="#">1290344</a>
Wear Plate	L Style Urethane	<a href="#">07211023</a>
Wear Plate	L Style White Lightning	<a href="#">07213023</a>

Figure 7f: Gaskets and Rod Packing

Modules

Different modules.

Modules

Name	OEM	Mission L
<a href="#">Complete Assembly</a>	<a href="#">FEMNAT10PCA</a>	<a href="#">80703031</a>
<a href="#">Discharge Module Studded</a>	<a href="#">FEMNATDIS10P</a>	<a href="#">80703000</a>
<a href="#">Suction Module Studded</a>	<a href="#">FEMNATSUCB9PP</a>	<a href="#">80703001</a>

Figure 7g: Modules

Module part number hyperlinks behave differently than previous hyperlinks. It shows the engineering design attachment inline as shown below in figure 7g.2. Moreover, this window also shows extra information on module components.

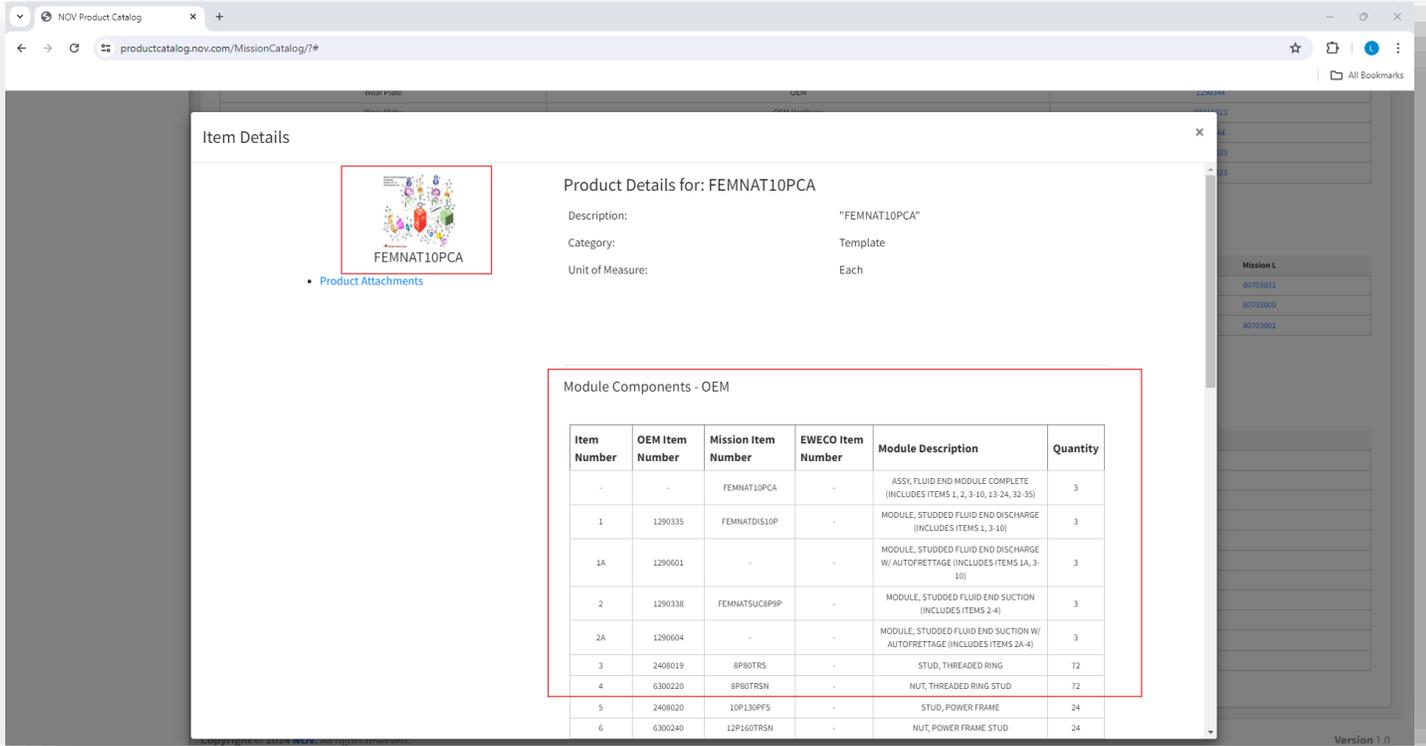


Figure 7g.2: Module product details

User can click on the image and a larger design appears as shown below in figure 7g.3. User can download and save this image on their desktop.

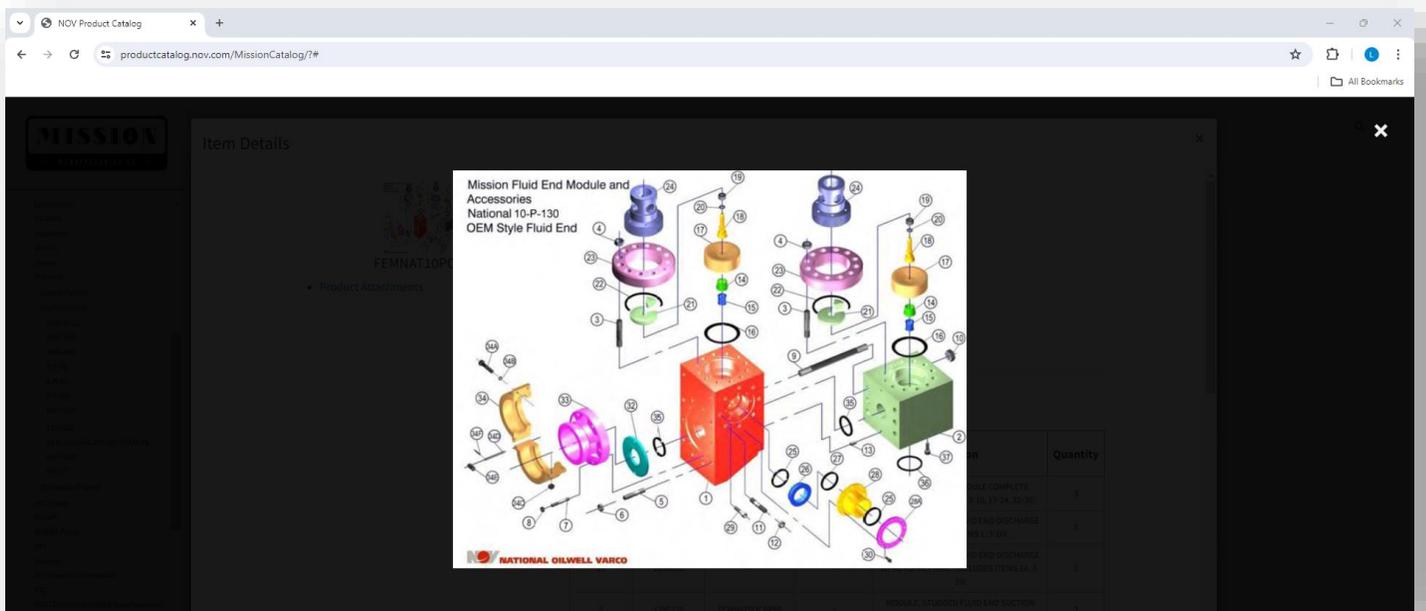


Figure 7g.3: Product specs downloadable image

Piston Rods

Different Piston rod parts.

Piston Rods

Search:

Name	Item Number
<a href="#">Crosshead Rod</a>	1602560
<a href="#">Quick Connect</a>	-
<a href="#">Self Aligning Rod Assembly</a>	1095210
<a href="#">Pony Rod Baffle</a>	1290194
<a href="#">Piston Rod</a>	1290347
<a href="#">Sub Rod</a>	1290346
<a href="#">Rod Nut</a>	005402052
<a href="#">Clamp</a>	1290085
<a href="#">Clamp W/ Spray</a>	PP6010135
<a href="#">Covered Rod Nut</a>	CRN-1
<a href="#">Pony Rod Seal</a>	1283099

Figure 7f: Piston Rods

## Spare Parts details

Users will find many categories that list only the spare parts. These pages, like the ones shown below in figure 8a and 8b, will only carry pertinent details for that spare part. Wherever applicable, these pages will have hyperlinks to the part number details pop-up page.

The screenshot shows the NOV Product Catalog website. The main content area is titled "NOV Product Catalog" and "Fetching Details for Pistons and Replacement Rubbers". It displays a table with columns for Item Image, Item Number, Item Description, and Item Class. The first item shown is a "Triplex Piston" with item number 1502052XT.

Below this, there is a section titled "Piston and Replacement Rubber" with a search bar. A table lists various rubber types and their corresponding part numbers for different diameters (4", 4-1/2", 4-3/4", 5", 5-1/4", 5-1/2", 5-3/4", 6", 6-1/4", 6-1/2", 6-3/4", 7", 7-1/4", 7-1/2", 8").

Type	4"	4-1/2"	4-3/4"	5"	5-1/4"	5-1/2"	5-3/4"	6"	6-1/4"	6-1/2"	6-3/4"	7"	7-1/4"	7-1/2"	8"
Supreme Two Piece	012180154	012180196	012180311	012180253	-	012180337	012180352	012180394	012180493	012180535	012180600	012180618	012180642	012180683	012180725
Green Duo Bonded	1502052	1502054	-	1502056	1505057	1502058	1502059	1502060	1502061	1502062	1502063	1502064	-	1502066	1502068
White Lightning Two Piece	-	012180197	-	012180254	-	012180338	-	012180395	012180494	012180536	-	012180619	-	012180685	-
White Lightning Bonded	1502052XT	1502054XT	-	1502056XT	1502057XT	1502058XT	1502059XT	1502060XT	1502061XT	1502062XT	-	1502064XT	-	1502066XT	1502068XT
Blue Lightning Bonded	MB40-15	MB44-15	-	MB50-15	-	MB54-15	-	MB60-15	-	MB64-15	-	MB70-15	-	-	-
Black Lightning Bonded	-	1502054HT	-	1502056HT	-	1502058HT	-	1502060HT	-	1502062HT	-	-	-	-	-
Slip-Seal Two Piece Rubber	-	20021501+80	-	20021502+80	-	20021503+80	-	20021505+80	20021506+80	20021507+80	20021508+80	20021509+80	20021510+80	20021511+80	-
Slip-Seal Bullitt Bonded	-	XM-320	-	1502056S5	-	1502058S5	-	1502060S5	1502061S5	1502062S5	-	1502064S5	-	-	-
Slip-Seal White Lightning Bonded	-	XM-320WL	XM475WL	XM500WL	-	XM550WL	-	XM600WL	-	XM650WL	-	-	-	-	-
Flex-Lip Rubber Bonded	011102926	011102928	-	011103033	-	011103132	-	011103629	-	011103827	-	011103926	-	-	011103950NR
Red Rogue	-	18335075-001	-	18335100-001	-	18335102-001	-	18335104-001	18335105-001	18335107-001	-	18335108-001	-	-	-
Supreme Replacement Rubber	015180102	015180144	015100308	015180185	-	015180227	015180235	015180268	015180294	015180300	015180326	015180342	015180359	015180367	-

Figure 8a: Piston and replacement rubber parts

NOV Product Catalog

Fetching Details for Emsco F-350

Item Image	Item Number	Item Description	Item Class
	SAR EMSCO F-350	"SAR EMSCO F-350"	Self Aligning Piston Rod

Self Aligning Piston Rod

Search:

Self Aligning Rod Name	Item Number	Quantity Per Assembly
SELF-ALIGNING ROD ASSEMBLY	1095040	-
SELF-ALIGNING ROD	1095041	1
COUPLING	1095055	1
COUPLING REBUILD KIT (Includes: Part Nbr. 1069123, 1069124, & 1069125)	1096500	1
SPLIT RING	1095057	1
WATER SPOUT	1095042	1
URETHANE PAD	1069123	1
BACK UP RING	1069125	1
STAINLESS STEEL RETAINING RING	1069124	1
FASTENER (1/2" - 13 X 6")	1069126	2
LOCKING NUT (1/2-13 GRADE C-STOVER LOCK NUT)	1069128	2
FASTENER (3/8"-16 X 2 1/2")	1069127	1
ROD NUT (1")	5400205	1

Figure 8b: Self Aligning Piston Rod parts