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We power the industry that powers the world.

Contents

Introduction	3
Key Features	4
Getting to the Website	5
Website User Scenarios	8
Left Pane for Navigation Getting to a Model Review Model details	8 9 12
Spare Parts details	18

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.

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 <u>https://www.nov.com/products-and-services/tools</u>, 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 <u>https://productcatalog.nov.com/</u>. 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,

<complex-block>

Rev. 6/6/24

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

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

MISSION NOV × +					- 0 ×
← → C 25 nov.com/products-and-services/brands	s/mission				() 노 🕕 🛠 🖉
					All Bookmarks
	O'			Q 은 Menu =	
	Driling Expendable Wermanufacture a wild expendables to ensure Learn more >	E Databook the best performance f.	Related	Tools	
NOY	f în	Y	٩	Ø	Contact Us
		Figure 2	b: link to the	e new website.	

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

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.

	gironcon, mission catalog,				⊐ All Bo
	NØY				
NUFACTURING CO 1924	NOV Product Cat	alog			
atalog uct Catalog	Fetching Details for NOV	Product Catalog			
	Item Image	Item Number	Item Description	Item Class	
	Item Image	Item Number	Item Description	Item Class	

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.

	Catalog/ Product Catalog ing Details for Fluid End Module Image	e Index Item Number	Item Description	ttem Class	All Bookmarks
WILSSION USERSTOCK NOV Product Catalog Ruide End Sopendables Fluid End Sopendables Fluid End Sopendables Ruision Valve Conversion Kits OEM Syle Modules BLAV-JAK Pistons and Replacement Rubbers Weil Service Valve & Seat Cross Reference Tools & Seat Full Equipment Self-Nill Egingen Piston Rod Index. Rod Clamps-Internal BackMush	Product Catalog ing Details for Fluid End Module Image	Index Item Number	Item Description	Item Class	Q Q
Image: Stream of the stream	Product Catalog ing Details for Fluid End Module Image	e Index Item Number	Item Description	Item Class	Q
	Product Catalog ing Details for Fluid End Module Image	Index Item Number	Item Description	Item Class	
Artegories NoV Product Catalog Nov Product Catalog Huid End Expendables Fluid End Module Index Mission 12 ⁺⁷⁵ 200 PS Assemblies Mission 12 ⁺⁷⁵ 200 PS Assemblies Mission Viet Conversion Kits OEM Style Modules BLAK-JAK Pistons and Replacement Rubbers Well Service Valve & Seat Crass Reference Tools & Seat Pull Equipment Self-Aligning Piston Rod Index Red Clampe-Internal Backflush	ing Details for Fluid End Module	Index Item Number	Item Description	Item Class	
Fluid End Aberlaables Fluid End Abelle Index Mission "L" 7500 PSI Assemblies Mission LModules Mission Valve Conversion Kits OEK Style Modules ELAK-JAK Pistons and Replacement Rubbers Well Service Valve & Seat Craslog Well Service Valve & Seat Craslog Well Service Valve & Seat Craslog Kell Service Valve & Seat Craslo Kell Kell Service Valve & Seat Craslog Kell Service Valve & Seat Craslo Kell Kell Service Valve & Seat Craslog Kell Service Valve	Image	Item Number	Item Description	Item Class	
Mission L Modules Mission Valve Conversion Kits OEM 55(e Modules BLAK-JAK Pistons and Replacement Rubbers Well Service Valve & Seat Catalog Well Service Valve & Seat Cross Reference Tools & Seat Pull Equipment Self-Aligning Piston Rod Index Rod Clamps-Internal Backflush					
Waterwell Expendables Washpipe & Packing Index					
Copyrigh	ht © 2024 NOV. All rights reserved.			v	ersion 1.0

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.

C S https://productcatal	og.nov.com/MissionCatalog/			<u>ם</u> (ב
				C All Bo
MISSION	NØY			(
MANUFACTURING CO 1924				
End Expendables	NOV Product Cat	alog		
erican Block ex (Myers)	Fetching Details for Fluid	l End Expendables		
nco				
wster htinental Emsco	Item Image	Item Number	Item Description	Item Class
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lmec				
Williams (Lewco)				
co (Ellis Williams Engineering Co)				
dner Denver				
o Pump				
at American				
ar Hua				
0				
R Pumps				
dmaster				
1014				
sorenti				
sarenu				
us !	-			
Dirat				
Pumps				
ien o				
EGA Pump				
mec				
(m				
Texas First Industrial)				

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

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.

PICOL J DATABOOK ×	+			- 0
C S https://productcatal	og.nov.com/MissionCatalog/			<u>.</u>
				C All Bo
	Nev			(
MISSION				
MANUFACIURING CU 1924	NOV Product Cat	alog		
End Expendables erican Block	*			
ex (Myers) nco	Fetching Details for Tripl	lex Pumps		
wster ntinental Emsco	Item Image	Item Number	Item Description	Item Class
igon				
lmec				
s Williams (Lewco)				
eco (Ellis Williams Engineering Co)				
dner Denver				
so Pump				
at American				
ng Hua				
0				
R. Pumps	5 J			
dmaster				
WOW				
ssarenti				
tco				
xus				
ional				
uplex Pumps				
riplex Pumps				
550T-7				
7-P-50				
8-P-80				
9-P-100				
51 200				

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.

× +			- 0
g.nov.com/MissionCatalog/?			☆ 🎦 🛛 🕓
			All Bookman
Search for Item			Q X
NOV Product Catalog			
Fetching Details for 10-P-130			
Item Image Item Number	Item Description	Item Class	
• Nati 10P130	"Nati 10P130"	Model	
	x + gnov.com/MissionCatalog/? Search for Item NOV Product Catalog Fetching Details for 10-P-130 Item Image Item Number	x + prov.com/MissionCatalog/? Search for Item NOV Product Catalog Fetching Details for 10-P-130 Item Image Item Number Item Description Topology Natl 10P130 "Natl 10P130"	x + provide search for Item Search for Item NOV Product Catalog Fetching Details for 10-P-130 Item Image Item Number Item Description Item Class Total 10P130 Natl 10P130 Natl 10P130 Natl 10P130 Natl 10P130

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,

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V S PICOL J DATABOOK	× +			- ō ×
← → C S productcatale	og.nov.com/MissionCatalog/?			☆ む 🕛 :
				All Bookmarks
MISSION	Nati 10P130			Q X
	NOV Product Catalog			
Triplex Pumps JWS-165-L	1 Results Found for Natl 10P130			
JWS-340 JWS-400 7-P-50	Item Image Item Number	Item Description	Item Class	
8-P-80 9-P-100 10-P-130 12-P-160 14-P-200/14-P-220 OEM NATL FE	- Natl 10P130	Natl 10P130	Model	
14-P-220 550T-7 Quintuplex Pumps				

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,

G = productcatalog.n	ov.com/MissionCata	llog/?			육 년 🕔
					🗅 All Book
	National				Q X
	NOV Produ	uct Catalog			
Pumps	+				
Sumps	7 Results Four	nd for National			
40	Item Image	Item Number	Item Description	Item Class	
		`			
30		National 550T-7	National 550T-7	Model	
50 20/14-P-220 OEM NATL FE					
20		٦			
ex Pumps		National P200 - P650	National P200 - P650	BLAK-JAK Washpipe Cartridge	
np	_	-			
First Industrial)		National 14-P-220 Hybrid	National 14-P-220 Hybrid	Model	
ervice Oilfield Manufacturing)					
ron					
rd					
*ump		NATIONAL 8-P-80 FC	NATIONAL 8-P-80 FC	Module	
odule Index					
Ŧ		ה			
		NATIONAL 10-P-130 FC	NATIONAL 10-P-130 FC	Module	
		_			
		ר			
		NATIONAL	NATIONAL	Washpipe and Packing	

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*.

C 25 productcatalog	nov.com/MissionCatalog/?			\$	5 D
					All B
ISSION	Search for Item				Q
NANUFACTURING CD 1414	NOV Product Catalog				
x Pumps -165-L	Fetching Details for 10-P-130				
-340 -400 50	Item Image Item Number		Item Description	Item Class	
80 100 130 160 200/14-P-220 OEM NATL FE	Natl 10P130		"Natl 10P130"	Model	
220 -7 plex Pumps ips	Model				
lump			Name		
is First Industrial) Service Oilfield Manufacturing)	Bore Size and Stroke Length		16+139		
; iron		Bore Size		Stroke Length	
ford		6-3/4"		10*	
Module Index	Ceramic Liner				
	Search:				
	Liner Size	Item Number	Liner Gasket - Rubber	Liner Gasket - Urethane	
	4"	07465400	07923274		
	4-1/4"				

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.

<u>Model</u>

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

Mc	odel	
	Name 16-8-190	Ľ
		L

Figure 7a: model number

Bore Size and Stroke Length

Bore size and stroke length for the pipe model.

re Size and Stroke Length		
	Bore Size	\$ Stroke Length
	6-3/4"	10"



Ceramic Liner

Various ceramic liner part numbers by liner size and type.

:			
Liner Size	Item Number	Liner Gasket - Rubber	Liner Gasket - Urethane
4"	07465400	07923274	
4-1/4"	-	-	-
4-1/2"	07465450	07923274	· ·
4-3/4=			
5"	07465500	07923265	07211011
5-1/4"			
5-1/2"	07465550	07923263	07211005
5-3/4"	-	-	-
6"	07465600	07923261	07211004
6-1/4"		-	· ·
6-1/2"		07923283	
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 popup window to show more details of the part number as below.

NOV Product Catalog	^ +			
→ C S productcatalog	g.nov.com/MissionCatalog/?#			בי ב
NEGA Pump 2PI soilmec (FI (Texas First Industrial) TSC	Item Details			×
SM (Tri-Service Oilfield Manufacturing) Julsa Rig Iron Joetrom		Pr Pr 07033263	roduct Details for: 07923263 escription: "GASKET, LINER, 5.5 RUBBER, 10P-14P" ategory: Tangible	
	Product Attac	hments U	nit of Measure: Each	
	Product Attac	unaccost Un	nit of Measure: Each	1/1102
	Product Attac	hments Ur	nit of Measure: Each	
	Product Attac 1/2 5-3/4* 6*	hments Ur	nit of Measure: Each	6/11/02 0711/04
	Product Attac 5.1.2 5.3.4* 6* 6.14*	0192300 Un hments Un	nit of Measure: Each	
	Product Attac 5.3/4* 61/4* 6.1/4*	orission Un	nit of Measure: Each	0721864
	Product Attac Size Size Gr Gi/a* Gi/a* Gi/a* Gi/a*	innents Un	nit of Measure: Each	
	 Product Attact 5.12" 5.3/4" 6.3/4" 6.3/4" 6.3/2" 6.3/2" 6.3/2" 7" 	(74000 (74000 (74000 (74000 (74000 (74000 (74000 (74000 (74000 (74000 (74000 (74000 (74000 (74000 (74000 (74000 (74000 (74000 (74000 (74000 (74000 (74000 (74000 (74000 (74000 (74000 (74000 (74000 (74000 (74000 (74000 (74000 (74000 (74000 (74000 (74000 (74000 (74000 (74000 (74000 (74000 (74000 (74000 (74000 (74000 (74000 (74000 (74000 (74000 (74000 (74000 (74000 (74000 (74000 (74000 (74000 (74000 (74000 (74000 (74000 (74000 (74000 (74000 (74000 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400 (7400	nit of Measure: Each	0711005
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	 Product Attac 5.3.4" 6" 6.1.4" 6.3.4" 7.4" 7.1.4" 7.42" 	i 2000 Ur hments Ur cr40000 - - - - - - - - - - - -	nit of Measure: Each	
	 Product Attac 53/4" 61/2" 63/4" 71/2" 73/4" 		nit of Measure: Each	571109

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.

Namo	Pourback	Poughnock HP	Roughpork Ponded	Supromo	EKN	Service Master	EK1	Silver Ten	CMIL
Name	Rougilleck	Roughlieck HP	Roughlieck Bollaed	Supreme	FRA	Service Master	FR4	Silver top	amir
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.

Rev.	6	/6	/24
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Name	Туре	Item Number
Valve Cover	OEM	1540137
Valve Cover	OEM Urethane	1540126
Valve Cover	L Style	07207128
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	1290344
Wear Plate	OEM Urethane	07211023
Wear Plate	L Style	1290344
Wear Plate	L Style Urethane	07211023
Wear Plate	L Style White Lightning	07213023

Figure 7f: Gaskets and Rod Packing

<u>Modules</u>

Different modules.

Name	0EM	Mirciant
Name	VLM	11331011 L
Complete Assembly	FEMNAT10PCA	80703031
Discharge Module Studded	FEMNATDIS10P	80703000
Suction Module Studded	FEMNATSUC8P9P	80703001

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.

C 25 productcatalo	og.nov.com/MissionCatalog/?#									± 2	3 U
	Weart	Plate				UEM			1290344	L	All BOOK
	Item Details	No.			OF U	Unthan			× 44		
			Product	^ 123							
			Description:			"FEMN	IAT10PCA"				
			Category:			Templ	ate				
	FE	MNAT10PCA	Unit of Meas	ure.		Each			Mis	ssion L	
	Product Attac	hments	0111 01 11 00			2001			807		
									807	703000	
									807		
			Module Co	mponents -	OEM	1					
			Module Co Item Number	OEM Item Number	OEM Mission Item Number	EWECO Item Number	Module Description	Quantity			
			Module Co Item Number	OEM Item Number	OEM Mission Item Number FEMNAT10PCA	EWECO Item Number	Module Description ASSY, FLUID END MODULE COMPLETE (INCLUDES ITEMS 1, 2, 3 (0, 13 24, 32 35))	Quantity 3			
			Module Co	OEM Item Number 1290335	Wission Item Number FEMNATIOPCA FEMNATDISIOP	EWECO Item Number	Module Description Assy, FLUID END MODULE COMPLETE (INCLUDES ITEMS 1, 2, 3-10, 12-4, 32-33) MODULE, STUDGED FLUID END DISCHARGE (INCLUDES ITEMS 1, 3-10)	Quantity 3 3			
			Hodule Co Item Number 1 1	OEM Item Number - 1290335 1290601	OEM Mission Item Number FEMNATIOPCA FEMNATOSIOP	EWECO Item Number	Module Description ASSY, FLUID END MODULE COMPLETE (INCLUDES TEMS 1, 2, 3, 10, 15, 24, 32, 33) MODULE, STUDDED FLUID END DISCHARGE (INCLUDES TEMS 1, 3, 10) MODULE, STUDDED FLUID END DISCHARGE W/ AUTORETTAGE (INCLUDES TEMS 1, 3, 3) 10)	Quantity 3 3 3			
			Hem Number 1 1A 2	OEM Item Number 1290335 1290338	OEM Mission Item Number FENNATIOPCA FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENNATION FENN	EWECO Item Number	Module Description ASSY, RUID END MODULE COMPLETE. (INCLUDES ITEMS 1, 2, 3 10, 13-24, 32-35) MODULE, STUDDE FLUID END DISCHARED (INCLUDES ITEMS 1, 3-10) MODULE, STUDDE FLUID END DISCHARED W/AUTOFRETAGE (INCLUDES ITEMS 1A, 3- 10) MODULE, STUDDE FLUID END SUCTION (INCLUDES ITEMS 2-40)	Quantity 3 3 3 3			
			Hem Number 1 1A 2 2A	DEM Item VIII - 1290335 - 1290338 - 1290338 -	OEM Number FEMNATLOPCA FEMNATOSLOP FEMNATSUC6P9P	EWECO Item Number	Module Description ASS(, FLUID END MODULE COMPLETE (INCLUDES ITEMS 1, 2, 3-10, 13-24, 32-35) MODULE, STUDGED TUID END DISCHARGE (INCLUDES ITEMS 1, 3-10) MODULE, STUDGED TUID END DISCHARGE (INCLUDES ITEMS 1, 3-20) MODULE, STUDGED TUID END DISCHARGE (INCLUDES ITEMS 2, 4) MODULE, STUDGED TUID END SUCTION (INCLUDES ITEMS 2, 4) MODULE, STUDGED TUID END SUCTION I/ AUTORETTAGE (INCLUDES ITEMS 2, 4)	Quantity 3 3 3 3 3 3 3			
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			Hodule Co Item 1 1 2 2 2 4	OEM Item Number 1290335 1290336 1290338 1290338 2408019 630020	CEM Mission Item Number FENNATIOPCA FENNATOISLOP FENNATOISLOP FENNATOISLOP FENNATSUCEPPP APBOTES BPBOTES	EWECO Item Number	Module Description ASSY, FLUID END MODULE COMPLETE (INCLUDES TIEMS 1, 2, 3 40, 13-24, 32-35) MODULE, STUDDED FLUID END DISCHARGE (INCLUDES TIEMS 1, 3, 100) MODULE, STUDDED FLUID END DISCHARGE (INCLUDES TIEMS 1, 3, 100) MODULE, STUDDED FLUID END DISCHARGE (INCLUDES TIEMS 1, 3, 100) MODULE, STUDDED FLUID END DISCHARGE (INCLUDES TIEMS 1, 4, 3) MODULE, STUDDED FLUID END SUCTION (INCLUDES TIEMS 2, 4, 4) MODULE, STUDDED FLUID ENTEM 52, 4) STUD, INFRADED RING STUD	Quantity 3 3 3 3 3 3 3 7 7 7 7 2			
			Hem Number - 1 1 3 A 2 2 A 3 4 5	Description DEM Item Number 1200335 1200301 1200001 1200001 1200001 1200001 000001 2400019 6300200 2400001	Nission Item Number FEMNATIOPCA FEMNATOSIOP . . . BPBOTRS BPBOTRS 10P130P75	EWECO Item Number	Module Description ASSY, FLUID END MODULE COMPLETE (INCLUDES TEMS 1, 2, 3 10, 13 24, 32 33) MODULE, STUDDED FLUID END DISCHARGE (INCLUDES TEMS 1, 3, 10) MODULE, STUDDET FLUID END DISCHARGE (INCLUDES TEMS 2, 4, 3) MODULE, STUDDET FLUID END SUCHARGE (INCLUDES TEMS 2, 4) MODULE, STUDDET FLUID END SUCHON (INCLUDES TEMS 2, 4) MODULE, STUDDET FLUID END SUCHON (INCLUDES TEMS 2, 4) MODULE, STUDDET FLUID END SUCHON (INCLUDES TEMS 2, 4) STUD, THREADED RING NUT, THREADED RING STUD STUD, THREADED RING STUD STUD, POWER FRAME	Quantity 3 3 3 3 3 3 3 7 2 7 2 2 4			

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.

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Figure 7g.3: Product specs downloadable image



Piston Rods

Different Piston rod parts.

arch:	
Name	Item Number
Crosshead Rod	1602560
Quick Connect	· ·
Self Aligning Rod Assembly	1095210
Pony Rod Baffle	1290194
Piston Rod	1290347
Sub Rod	1290346
Rod Nut	005402052
Clamp	1290085
Clamp W/ Spray	PP601013S
Covered Rod Nut	CRN-1
Pony Rod Seal	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.

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NOV Product Catal	og														
Fetching Details for Pistons and Replacement Rubbers															
Item Image Item Num	ber				Item	Description	1					Item Class			
* Triplex Pis	ton				"Trip	lex Piston"						Piston			
Piston and Replacement	Rubber														
Piston and Replacement	Rubber														
Piston and Replacement Search: Type	Rubber	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
Piston and Replacement Search: Type Supreme Two Piece Composition Office	Rubber 4" 012180154	4-1/2" 012180196	4-3/4 " 012180311	5" 012180253	5-1/4*	5-1/2" 012180337	5-3/4" 012180352	6" 012180394	6-1/4" 012180493	6-1/2" 012180535	6-3/4" 012180600	7" 012180618 1502054	7-1/4" 012180642	7-1/2" 012180683	8
Piston and Replacement Search: Type Supreme Two Picce Green Due Bonded With Linkthow Tare Trans	Rubber 4" 012180154 1502052	4-1/2" 012180196 1502054 012180197	4-3/4 ** 012180311 -	5" 012180253 1502056 012180254	5-1/4" 1505057	5-1/2" 012180337 1502058 012180339	5-3/4" 012180352 1502059	6" 012180394 1502060 012180395	6-1/4" 012180493 1502061 012180494	6-1/2" 012180535 1502062 012180535	6-3/4" 012180600 1502063	7" 012180618 1502064 012180619	7-1/4" 012180642 -	7-1/2" 012180683 1502066 012180685	8 01214 1502
Piston and Replacement Search: Type Supreme Two Piece Green Due Bonded While Lightning Two Piece While Lightning Swoded	4" 012180154 1502052 1502052XT	4-1/2" 012180196 1502054 012180197 1502054XT	4-3/4" 012180311 - -	5" 012180253 1502056 012180254 1502056XT	5-1/4" 1505057	5-1/2" 012180337 1502058 012180338 1502058XT	5-3/4" 012180352 1502059 - 1502059×T	6" 012180394 1502060 012180395 1502060XT	6-1/4" 012180493 1502061 012180494 1502061XT	6-1/2" 012180535 1502062 012180536 1502062XT	6-3/4" 012180600 1502063	7" 012180618 1502064 012180619 1502064XT	7-1/4" 012180642 - -	7-1/2" 012180683 1502066 012180685 1502066XT	8 01214 1502 15020
Piston and Replacement Search: Type Supreme Two Piece Green Due Bonded White Lightning Bonded Bite Lightning Bonded Bite Lightning Bonded	Rubber 	4-1/2" 012180196 1502054 012180197 1502054XT MB44-15	4-3/4" 012180311 - - -	5" 012180253 1502056 012180254 1502056XT MB50-15	5-1/4" 1505057 1502057XT	5-1/2" 012180337 1502058 012180338 1502058XT M854-15	5-3/4" 012180352 1502059 1502059XT	6" 012180394 1502060 012180395 1502060XT MB60-15	6-1/4" 012180493 1502061 012180494 1502061XT	6-1/2" 012180535 1502062 012180536 1502062XT M864-15	6-3/4" 012180600 1502063	7" 012180618 1502064 012180619 1502064XT M870-15	7-1/4" 012180642 - - -	7-1/2" 012180683 1502066 012180685 1502066xT	8 01214 1502 15020
Piston and Replacement Search: Type Supreme Two Piece Green Dus Bonded White Lighting Bonded Blue Lighting Bonded Blue Lighting Bonded Blue Lighting Bonded	4" 012180154 1502052 1502052X1 MB40-15 -	4-1/2" 012180196 1502054 012180197 1502054XT MB44-15 1502054HT	4-3/4" 012180311 - - - -	5" 012180253 1502056 012180254 1502056XT MB50-15 1502056HT	5-1/4" 1505057 1502057XT	5-1/2" 012180337 1502058 012180338 1502058XT MB54-15 1502058HT	5-3/4" 012180352 1502059 - 1502059XT -	6" 012180394 1502060 012180395 1502060XT MB60-15 1502060HT	6-1/4" 012180493 1502061 012180494 1502061XT -	6-1/2" 012180535 1502062 012180536 1502062XT M864-15 1502062XT	6-3/4" 012180600 1502063 - - -	7" 012180618 1502064 012180619 1502064XT MB70-15	7-1/4" 012180642 - - - -	7-1/2" 012180683 1502066 012180685 1502066XT -	8 01214 1502 15020
Piston and Replacement Searcha Type Supreme Two Piece Green Dus Bonded White Lightning Bonded Blue Lightning B	Rubber 	4-1/2" 012180196 1502054 012180197 1502054XT MB44-15 1502054HT 20021501+80	4-3/4" 012180311 - - - - - - - - - - -	5" 012180253 1502056 012180254 1502056XT 1502056HT 1502056HT 20021502+60	5-1/4" 1505057 1502057XT	5-1/2" 012180337 1502058 012180338 1592056XT M854-15 1502058HT 22021503+80	5-3/4" 012180352 1502059 1502059XT	6" 012180394 1502060 012180395 1592060XT MB60-15 1502060HT 20021505+80	6-1/4" 012180493 1502061 012180494 1502061XT - - -	6-1/2" 012180535 1502062 012180536 1502062XT M864-15 1502062XT 1502062XT 20021507+80	6-3/4" 012180600 1502063 - - - 20021508+80	7" 012180618 1502064 012180619 1502064XT M870-15 20021509+60	7-1/4" 012180642	7-3/2" 012180683 1502066 012180685 1502060XT . . 20021511+80	8 01214 1502 15020
Piston and Replacement Search: Type Supreme Two Piece Green Due Bonded White Lightning Bonded Blue Lightning Bonded Black Lightning Bonded Silp-Seal Two Piece Rubber Silp-Seal Built Bonded	Aubber 4" 012180154 1502052 2 1502052XT MB40-15 2	4-1/2" 012180196 1502054 012180197 1502054XT M844-15 1502054HT 20021501480 XM-320	4-3/4" 012180311 - - - - - - - - - - - - - -	5" 012180253 1502056 012180254 1502056XT M850-15 1502056XT 20021502480 150205655	5-1/4" 1505057 1502057XT	5-1/2" 012180337 012180338 012180338 012180338 150205847 150205847 20021503480 150205855	5-3/4" 012180352 1502059 - 1502059XT - - -	6" 012180394 1502060 012180395 1502060XT MB60-15 1502060HT 20021505+80 150206055	6-1/4" 012180493 1502061 012180494 1502061XT	6-1/2" 012180535 1502062 012180536 1502062X1 M864-15 1502062X1 1502062X1 20021507+80 150206255	6-3/4" 012180600 1502063 20021508+80 	7" 012180618 1502064 012180519 1502064X7 M87015 20021509+80 150206455	7-1/4" 012180642	7-1/2" 012180683 012180685 012180685 1502066X7	8 01218 1502 15020 15020
Piston and Replacement Search: Type Supreme Two Piece Green Due Bonded White Lightning Bonded Blue Lightning Bonded Blue Lightning Bonded Blue Lightning Bonded Blue Sigh-Seal Two Piece Rubber Sigh-Seal Two Piece Rubber Sigh-Seal Built Bonded Sigh-Seal White Lightning Bonded	Aubber 4" 012180154 1502052 2 1502052x1 480-15 2 2 480-15 2 2 3 480-15 480-15 480-15	+1/2" 012180196 1502054 012180197 1502054XT MB44-15 1502054XT 1502021501+80 XM-320	4-3/4" 012180311 - - - - - - - - - - - - - - - - - -	5" 012180253 1502056 012180254 1502058/T M850-15 1502058/T 150205292480 1502052528 20021502480 150205525	5-1/4" - 1505057 - 1502057XT - - - - - - - - - - - - - - - - - - -	5-1/2" 012180337 012180337 012180338 012180338 150205847 150205847 150205847 150205847 15020585	5-3/4" 012180352 1502059 - 1502059XT - - - - - - - -	6" 012180394 1502060 012180395 1502060XT MB60-15 1502060XT 20022505HT 150206055 XM600WL	6-1/4" 012180493 1502061 012180494 1502061XT - - 20021556+80 150206155	6-1/2" 012180535 1502062 012180536 1502062 1502062X7 M864-15 1502062X7 1502062X7 1502062X5 1502062X5 1502062X5 1502062X5	6-3/4" 012180600 1502063 - - - 20021508+80 - -	7" 012180618 1502064 01218059 1502064XT M87015	7-1/4" 012180642	7-3/2" 012180653 1502066 012180655 1502065XT 20021511+80 	8 01218 1502
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Figure 8a: Piston and replacement rubber parts

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Figure 8b: Self Aligning Piston Rod parts