



Empowering you to work smarter

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Exclusively Available at **FSW**

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## ABOUT NAVTEK

**NAVTEK IS A GLOBAL MANUFACTURER THAT HAS DEDICATED OVER 20 YEARS TO THE R&D AND MANUFACTURING OF INDUSTRIAL VACUUM SOLUTIONS AND HVAC/R TOOLS.**

NAVTEK draws upon its commitment to technical innovation, strong customer service and robust R&D allocation to deliver solutions offering unsurpassed efficiency, accuracy and ease of use.

Comprising a full line-up of tools, that includes cordless and mains voltage vacuum pumps, and innovative high speed vacuum hoses.

The NAVTEK product portfolio is designed with one overarching concept in mind: user-friendliness. The company seeks to meet a need for simpler, lighter, faster solutions that expedite service without sacrificing accuracy.

**DELIVERING UNSURPASSED QUALITY AT EVERY OPPORTUNITY DEFINES THE MISSION OF NAVTEK. WE MAKE IT POSSIBLE FOR HVAC&R TECHNICIANS TO COMPLETE JOBS WITH MORE ACCURACY, EASE AND EFFICIENCY.**

**FSW** are proud to launch NAVTEK brand of HVAC&R service tools in the UK.



# NAVTEK

## Making Your Job More Enjoyable!

Leading Technology, Superior Quality, Best Experience.



NAVTEK offers precision products starting with the engineers requirements in mind.

We integrate state-of-the-art technology and quality manufacturing to deliver a superior product making the engineers job more productive.

We know how valuable your time can be so products like the BIG BOY Hi-Flow vacuum hoses also speeds up the recovery process to get you onto the next job quicker and easier.

The 2cfm Cordless vacuum pump is the perfect solution for service engineers and when used with the BIG BOY vacuum hoses you'll be amazed how good this little pump is.

The launch of the NAVTEK brand marks the beginning of a new era for HVAC&R tools in the UK.

# NAVTEK

## CORDLESS 2 CFM VACUUM PUMP NP2DLM

**BREAKFREE**  
CORDLESS SERIES

**NEW**

**A2L**  
READY ✓

Backflow Prevention  
Check Valve

Isolation Ball Valve



NB1 Battery



High-Performance  
Li-Ion battery



Brushless  
DC Technology



Quality carry bag  
supplied with both  
NP2DLM & NP4DLM  
Cordless vac pumps

## Cordless · Compact · Convenient

Featuring DC Technology, these lightweight, highly efficient vacuum pumps are perfect for any job. With high-performance lithium batteries that provide higher capacity and longer running time, you can bring the NAVTEK cordless vacuum pumps on any service call in any location. These cordless vacuum pumps are lightweight, compact and easy to carry. Lastly, the isolation ball valve and twin cylinder make these vacuum pumps easy to use, reliable and ensures maximum vacuum capacity.

**Leading Technology, Superior Quality, Best Experience. Empowering you to work smarter!**

MODEL		NP2DLM
Li-ion		NB1 Battery, 18V, 5Ah (Up to 1 hour run time*)
Flow Rate	CFM	2
Ultimate Vacuum	micron	23
Pump Design		Dual Stage
Inlet Port	in	1/4", 3/8" Flare
Oil Capacity	ml	150
Dimensions	mm	234 x 89 x 190
Weight	kgs	3.8 (with battery)

\* charge time approx 45 mins from flat

CODE	MODEL
<b>QN1003</b>	NAVTEK NP2DLM Cordless 2cfm Vacuum Pump incs 1 x NBP1 Battery, 1 x Charger plus Oil & Carry Bag
<b>QN1017</b>	NAVTEK NB1 5Ah 18V Lithium-Ion Battery Only to suit the NAVTEK NP2DLM Cordless Vacuum Pump
<b>QN1018</b>	NAVTEK NC2 Mains Battery Charger Only for NP2DLM & NP4DLM Cordless Batteries.

# NAVTEK

## CORDLESS 4 CFM VACUUM PUMP NP4DLM

**BREAKFREE**  
CORDLESS SERIES

**NEW**



Lifting Hook

Isolation Ball Valve

High-Performance Li-Ion battery

Backflow Prevention Check Valve

Brushless DC Technology



NBP2 Battery



**A2L**  
READY

Compact.  
Lightweight.  
Easy to Carry.



Gas Ballast

## World's Highest Capacity Cordless Vacuum Pump

Cordless · Compact · Convenient

### High Performance Lithium Battery

- High capacity
- Up to 1 hour run time

### Twin Cylinder

- Ultimate vacuum down to 15 microns

### Brushless DC Technology

- Light weight at 6.98kg
- Highly efficient

### Other Features

- Isolation ball valve
- Back-flow check valve

### Other Features

- Lifting hook
- Gas ballast

### Includes

- Carry bag, stores pump, battery & battery charger.

MODEL		NP4DLM
Li-ion		NBP2 Battery, 18V, 9Ah (Up to 1 Hour run time*)
Flow Rate	CFM	4
Ultimate Vacuum	micron	15
Pump Design		Dual Stage
Inlet Port	in	1/4", 3/8" & 1/2" Flare
Oil Capacity	ml	260
Dimensions	mm	325 x 123 x 240
Weight	kgs	6.98 (with battery)

\* charge time approx 45 mins from flat

### CODE MODEL

<b>QN1023</b>	NAVTEK NP4DLM Cordless 4cfm Vacuum Pump incs 1 x NBP2 Battery, 1 x Charger plus Oil & Carry Bag
<b>QN1026</b>	NAVTEK NBP2 9Ah 18V Lithium-Ion Battery Only to suit the NAVTEK NP4DLM Cordless Vacuum Pump
<b>QN1018</b>	NAVTEK NC2 Mains Battery Charger Only for NP2DLM & NP4DLM Cordless Batteries.

# NAVTEK

## DUAL VOLTAGE VACUUM PUMP

NP4DP

PRO  
SERIES

NEW

DUAL  
VOLTAGE

Oil-Mist Filter  
Large Oil Tank



Image shows  
Lifting hook and gas  
ballast valve standard on  
both NP4 & NP7 models



NAVTEK NP4DP 4cfm dual voltage vacuum pump features twin cylinders for high ultimate vacuum down to 15 microns. Integrated cylinder structure coupled with forced oil circulation assure its high performance and reliability. Built-in hook makes it easier to carry to a high workplace.

## Pro Series Performance

### Integrated Cylinder Structure

- High capacity
- High reliability

### Twin Cylinder

- High ultimate vacuum

### Forced Oil Circulation

- Improved efficiency and durability

### Forced Oil Circulation

- Improved efficiency & durability

### Rope Hook

- Built in hook makes it easier to hoist pump onto rooftop

CODE	MODEL		NP4DP
QN1007	Power Supply (Dual)	V/Hz	110V-230V~50/60Hz (* See note below)
	Flow Rate	CFM	4
	Ultimate Vacuum	micron	15
	Pump Design		Dual Stage
	Motor Power	HP	3/4
	Inlet Port	in	1/4", 3/8", 1/2" Flare
	Oil Capacity	ml	483
	Dimension	mm	355 x 127 x 287
	Weight	kg	11

\*NP4DP & NP7DP Dual voltage pumps have a hard wired mains lead complete with fitted 240V UK Plug. 110V Plug not included.

# NAVTEK

## DUAL VOLTAGE VACUUM PUMP

NP7DP

**NEW**

**DUAL  
VOLTAGE**

**PRO  
SERIES**



Oil-Mist Filter

Large Oil Tank



Twin Cylinder

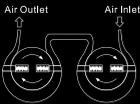


Image shows  
Lifting hook and gas  
ballast valve standard on  
both NP4 & NP7 models

NAVTEK NP7DP 7cfm dual voltage vacuum pump features twin cylinders for high ultimate vacuum down to 15 microns.

Integrated cylinder structure coupled with forced oil circulation assures its high performance and reliability. Built-in hook makes it easier to carry to a high workplace.

## Pro Series Reliability

### Integrated Cylinder Structure

- High performance
- High reliability

### Twin Cylinder

- High ultimate vacuum

### Forced Oil Circulation

- Improved efficiency & durability

### Rope Hook

- Built-in hook makes it easier to hoist pump onto rooftops

CODE	MODEL	NP7DP	
QN1008	Power Supply (Dual)	V/Hz	110V-230V~50/60Hz (* See note below)
	Flow Rate	CFM	7
	Ultimate Vacuum	micron	15
	Pump Design		Dual Stage
	Motor Power	HP	3/4
	Inlet Port	in	1/4", 3/8", 1/2" Flare
	Oil Capacity	ml	426
	Dimension	mm	355 x 127 x 287
	Weight	kg	11.8

\*NP4DP & NP7DP Dual voltage pumps have a hard wired mains lead complete with fitted 240V UK Plug. 110V Plug not included.

## STANDARD REFRIGERANT HOSE SET NRHH53

PRO  
SERIES

**NEW**



### 1/4" x 1/4" Standard Charging Hose Set (Pack of 3)

#### High Quality Lines

- 1/4" x 1/4" SAE fittings with 45° angle to one end
- R/Y/B hoses all 1.5m (5ft) long

#### High Quality Lines

- Leak-proof eight-sided crimp
- 800 psi MWP, 4000 psi burst pressure

#### Model

#### NRHH53

Type		Red	Yellow	Blue
Working Pressure	psi	0-800psi (55 bar)	0-800psi (55 bar)	0-800psi (55 bar)
Length	m	1.5m (5ft)	1.5m (5ft)	1.5m (5ft)
Connector	in	1/4"-1/4"	1/4"-1/4"	1/4"-1/4"
Ball Valves		NO		

CODE	MODEL	DESCRIPTION
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QN1015	NRHH53	NAVTEK Standard Charging Hose Set (3PK) R/Y/B 1.5m Long (5ft)
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## REFRIGERANT HOSE SET WITH BALL VALVES NRHH53C

PRO  
SERIES

**NEW**



### 1/4" x 1/4" Charging Hose Sets with Ball Valves (Pack of 3)

#### High Quality Lines

- 1/4" x 1/4" SAE fittings with 45° angled ball valves to one end
- R/Y/B hoses all 1.5m (5ft) long

#### High Quality Lines

- Leak-proof eight-sided crimp
- 800 psi MWP, 4000 psi burst pressure

#### Model

#### NRHH53C

Type		Red	Yellow	Blue
Working Pressure	psi	0-800psi (55 bar)	0-800psi (55 bar)	0-800psi (55 bar)
Length	m	1.5m (5ft)	1.5m (5ft)	1.5m (5ft)
Connector	in	1/4"-1/4"	1/4"-1/4"	1/4"-1/4"
Ball Valves		YES		

#### CODE

#### MODEL

#### DESCRIPTION

QN1016

NRHH53C

NAVTEK Charging Hose Set (3PK) R/Y/B 1.5m Long (5ft) C/W Ball Valves

# NAVTEK

BIG BOY Hi-Flow 1/2" Diameter  
Evacuation Hoses

## EVACUATION HOSES

NHB1 - NHB2 - NHB3

FAST AND EFFICIENT



HI-FLOW  
HOSES

UP TO  
**68%**  
FASTER  
VAC TIMES

## Evacuation Hose

### Fast and Efficient Evacuation

- 1/2" large diameter for fast evacuation
- 4 - layer construction for low permeation
- 3200 psi burst pressure, 640 psi working pressure
- Vacuum rated to 20 microns
- Can be used for vacuum & charging

### *When it comes to evacuation, charging & recovery, speed is everything.*

In fact the NEW NAVTEK BIG BOY Vacuum Hoses are a game changer, they improve vacuum efficiency when compared to using a 1/4" hose with core depressor by a whopping 68% See speed test results table bottom of page 15 for full details.

CODE	MODEL	DESCRIPTION
QN1011	NHB1	NAVTEK Big Boy 1/2" Diameter Evacuation Hose 1/4" x 3/8" x 1.8m long
QN1012	NHB2	NAVTEK Big Boy 1/2" Diameter Evacuation Hose 1/4" x 1/2" x 1.8m long
QN1013	NHB3	NAVTEK Big Boy 1/2" Diameter Evacuation Hose 1/2" x 1/2" x 152mm long

### TECH TIP

We stock equal & branch reducing flare tees to join two NAVTEK hoses to the short 1/2" x 1/2" NAVTEK Hose Model NHB3. This allows you to evacuate from both sides of the system using one vacuum pump. This speeds up evacuation times even more!. Check out codes B142, B136 & B152 in main FSW product guide to see which flare tee suits you best.

# CORE REMOVAL TOOL

## NVR1



**NEW**



**2 Sizes in 1 Tool!**

## Fast Recovery and Evacuation

### For Use With

- Both 1/4" and 5/16" Flare Fitting

### Pressure Rated

- For RA10A Systems

### Vacuum Rated

- to 20 microns with double o-rings

### *When it comes to evacuation, charging & recovery, speed is everything.*

For quicker recovery, vacuum and recharge times get into the habit of removing valve cores using the NAVTEK NVR1 core removal tool. Easy to use and time saving. That's the NVR1 from NAVTEK

CODE	MODEL	DESCRIPTION
QN1014	NVR1	NAVTEK Core Removal Tool for use with both 1/4" & 5/16"

## TECH TIPS

- Larger bore hoses significantly improve evacuation times
- Avoid using 1/4" hoses, they only extract 0.7cfm regardless of the size of vacuum pump used!
- Did you know the 1/4" port on a vacuum pump is only there to test your vacuum pump pulls below 100 microns before connecting to the system. If it fails the test, run your pump to warm oil before draining and replacing with new oil. This should improve the pumps performance. If pump fails to get below 100 microns you may have to repeat these steps. If pump still fails to pull down look to have it serviced professionally.
- When possible always go directly from the system to your vacuum pump using the largest hoses possible. The small internal ports on a manifold slows down the evacuation process considerably
- We also found NAVTEK Big Boy Hoses speed up recovery times. Connect a NHB1 hose 1/4" hose end to the outlet of your recovery machine and the other 3/8" end to a 3/8 cylinder adaptor on the recovery cylinder. As with vacuum using larger hoses to recover seems to keep the recovery cylinder cooler improving recovery rates.
- For more information visit the download section of our website [www.fsw.uk.com/download](http://www.fsw.uk.com/download) for your copy of "System Evacuation & Vacuum Training" by Jim Bergman, it's a must read article.

## NAVTEK BIG-BOY HI-FLOW VACUUM HOSE SPEED TEST RESULTS

HOSE SIZE	TIME Mins	% Improvement times over 1/4" Hose with Depressor
1/4" x 1/4" with Depressor	30.47	Hose and timing used as baseline for test
1/4" x 1/4" without Depressor	29.37	16%
3/8" x 3/8" Standard Yellow Vac Hose	18.44	41%
1/4" x 3/8" x 1/2" Bore NAVTEK Hose	11.12	65%
1/4" x 1/2" x 1/2" Bore NAVTEK Hose	10.07	68%

# NAVTEK

## WIRELESS REFRIGERANT SCALE NRS3i01



Keypad Safely Stores in Pocket Underneath Scales



Strong Rubber Pad to Grip Cylinders



Magnesium Alloy Weighing Pan



Remote keypad storage on underside of scales

The NAVTEK NRS3i01 Bluetooth Electronic Refrigerant Scale is designed and reinforced with advanced technology, providing more precise and portable refrigerant charging technology.

Through the bluetooth connection between hand-held device and electronic charging scale, you can perform other tasks while charging.

While real-time refrigerant charge is transmitted to the hand-held device, it will buzz when the charge is within 50 grams of the setting to alert the operator to stop the charging once the setting is reached.

The heavy duty magnesium alloy weighing pan. Ergonomic, one-piece, portable design makes it lighter and easier to carry.

Large rubber gripped platform designed to hold both small or large cylinders safely in position during charging or recovery procedures.

Leading Technology, Superior Quality from NAVTEK



CODE	DESCRIPTION
QN1050	NAVTEK NRS3i01 Wireless Refrigerant Scale (120kg Max Capacity)
QN1055	NAVTEK NRS3i01 Replacement Keypad (Only)

# NAVTEK

## WIRELESS REFRIGERANT SCALE NRS3i01



## Precise Charging

### Wireless Bluetooth Control

- Bluetooth scale with remote keypad
- 10m Bluetooth range

### Large Backlit Display on Keypad

- Large screen for easier readability

### Precision Sensor

- Precise measurements
- Accuracy 0.05%

### Carry Case

- Heavy duty plastic

### Magnesium Alloy Weighing Pan

- Large, heavy duty pan
- Designed for large & small cylinders

### Integrated Handle Design

- Ease of movement when outside case

SPECIFICATION	NRS3i01
Weighing Capacity	120kg
Resolution	10g (0.35oz)
Accuracy	0.05%
Power	4 x AA, 4 x AAA batteries (included)
Dimensions	270mm x 320mm
Weight	4.7kg
Operating Temperature	-10 ~ 40 °C

# NAVTEK

## 1-WAY MANIFOLD GAUGE SET

### N1B9H

# NEW

## 4 REFRIGERANTS

R134a-R404A-R410A-R32



### IMPACT RESISTANT AND PRECISE PERFORMANCE

Incorporating the latest ergonomic research and advanced design, it's easy to handle and delivers high precision with Class 1.0 accuracy. The integrated, impact-resistant body design provides outstanding protection. With one ball valve handle and easy folding hook design, they are easy to carry.

Suitable for **BOTH** high & low pressure sides of the system gauge reads -30 inHg to 800psi

The N1B9H single valve manifold comes complete with 2 x 1.5m long hoses 1 x red & 1 x yellow, stored neatly in the carry case supplied.

Leading Technology, Superior Quality from **NAVTEK**  
Empowering You to Work Smarter

# NAVTEK

Empowering You to Work Smarter



## 1-WAY MANIFOLD GAUGE SET

### N1B9H

# NEW



## Precision • Impact-Resistant

### Accurate

- Precision pressure gauge with Class 1.0 accuracy

### Folding Hook

- Hidden hook design, easy to transport

### Impact-Resistant

- Impact resistant design
- Durable rubber cover

### Aluminium Body with Ball Valve Handle

- Reliable, efficient and durable

CODE	MODEL	N1B9H
QN1004	Refrigerant Type	R134a, R404A, R410A, R32
	Gauge Diameter	mm ø 68
	Pressure Range	psi -30 inHg to 800 psi
	Hose Type	in Includes 2 x Hoses 1 x Red & 1 x Yellow
	Hose Length	cm 150

## 2-WAY MANIFOLD GAUGE SET N2B9H



### Precision • Impact-Resistant

#### Accurate

- Precision pressure gauge with Class 1.0 accuracy

#### Folding Hook

- Hidden hook design, easy to transport

#### Aluminium Body with Ball Valve Handle

- Reliable, efficient and durable

#### Impact-Resistant

- Impact resistant design
- Durable rubber cover



## 2-WAY MANIFOLD GAUGE SET N2B9H

**4** REFRIGERANTS  
R134a-R404A-R410A-R32

### IMPACT RESISTANT AND PRECISE PERFORMANCE

Incorporating the latest ergonomic research and advanced design, it's easy to handle and delivers high precision with Class 1.0 accuracy.

The integrated, impact-resistant body design provides outstanding protection. With 2 ball valve handles and easy folding hook design.

The N2B9H two valve manifold comes complete with 3 x R/Y/B hoses all 1.5m long. Stores neatly in carry case supplied.



Leading Technology, Superior Quality from **NAVTEK**  
Empowering You to Work Smarter

CODE	MODEL	N2B9H	
QN1005	Refrigerant Type	R134a, R404A, R410A, R32	
	Gauge Diameter	mm	ø 68
	Pressure Range	psi	-30 inHg to 800 psi
	Hose Type	in	Includes 3 x Hoses 1 x Red & 1 x Yellow 1 x Blue All 1/4" x 1/4"
	Hose Length	cm	150

# NAVTEK

## 4-WAY MANIFOLD GAUGE SET N4A9H

# NEW



Leading Technology, Superior Quality from **NAVTEK**  
Empowering You to Work Smarter

### IMPACT RESISTANT AND PRECISE PERFORMANCE

Incorporating the latest ergonomic research and advanced design, it's easy to handle and delivers high precision with 80mm diameter class 1.0 gauges. The integrated, impact-resistant aluminium body design provides outstanding protection. With 4 ball valve handles and easy folding hook design, they are easy to carry. Class Leading Technology.

The N4A9H 4 way manifold comes complete with 3 x 1/4" x 1/4" R/Y/B hoses & 1 x 3/8 x 3/8" Vacuum Hose all 1.5m long. Stored neatly in carry case supplied.

## 4 REFRIGERANTS

R134a-R404A-R410A-R32

### 4 WAY MANIFOLD GAUGE SET N4A9H



## Precision • Impact-Resistant

### Accurate

- Precision 80mm<sup>ø</sup> pressure gauge with Class 1.0 accuracy

### Impact-Resistant

- Impact resistant design
- Durable rubber cover

### Aluminium Body with Ball Valve Handle

- Reliable efficient and durable

### Folding Hook

- Hidden hook design, easy to transport

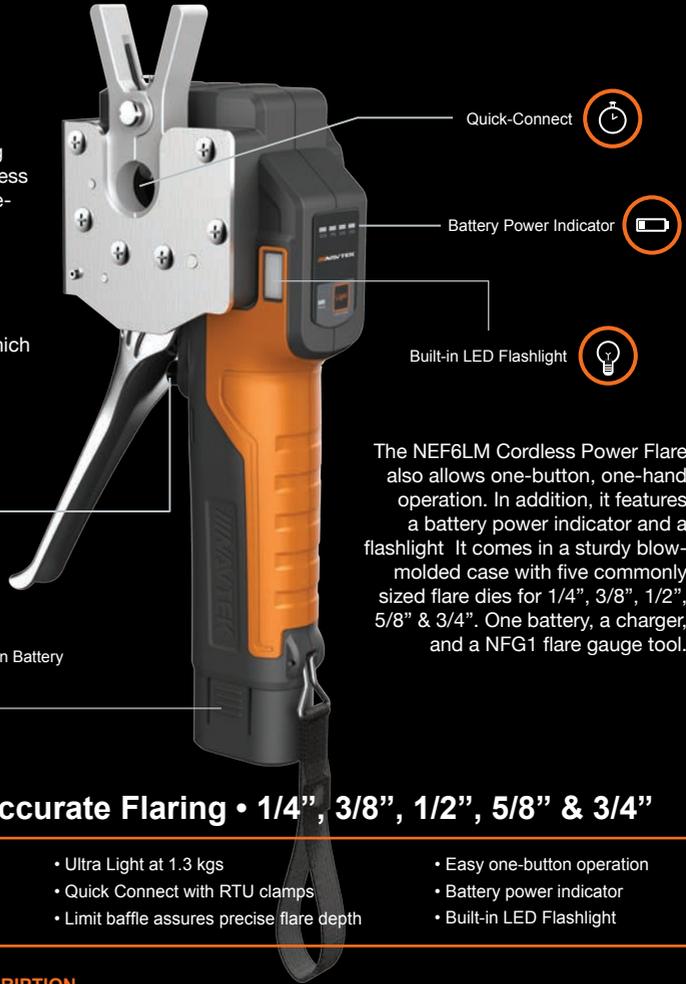
### 4 Valve

- Easy to use

Code	Model	N4A9H	
QN1006	Refrigerant Type		R134a, R404A, R410A, R32
	Gauge Diameter	mm	ø 80
	Pressure Range	psi	-30 inHg to 800 psi
	Hose Type	in	Includes 4 x Hoses 1 x Red & 1 x Yellow 1 x Blue All 1/4" x 1/4" and 1 x 3/8" x 3/8" Black Vacuum Hose
	Hose Length	cm	150

## CORDLESS FLARING TOOL NEF6LM

A welcome departure from creating flares manually, the NEF6LM Cordless Power Flare yields accurate, hassle-free flares in a fraction of the time compared to traditional flaring methods. Weighing only 1.3 kgs the new Power Flaring Tool comes equipped with a high-performance rechargeable lithium-ion battery which makes over 100 flares per charge.



**NEW**



One-Button Operation



Large Capacity Li-ion Battery



Quick-Connect



Battery Power Indicator



Built-in LED Flashlight

The NEF6LM Cordless Power Flare also allows one-button, one-hand operation. In addition, it features a battery power indicator and a flashlight. It comes in a sturdy blow-molded case with five commonly sized flare dies for 1/4", 3/8", 1/2", 5/8" & 3/4". One battery, a charger, and a NFG1 flare gauge tool.

### Ultra Light • Quick Accurate Flaring • 1/4", 3/8", 1/2", 5/8" & 3/4"

- Complete a flare in 14 seconds
- Over 100 flares per charge
- Quick charge in 30 minutes
- Ultra Light at 1.3 kgs
- Quick Connect with RTU clamps
- Limit baffle assures precise flare depth
- Easy one-button operation
- Battery power indicator
- Built-in LED Flashlight

CODE	MODEL	DESCRIPTION
QN1052	NEF6LM	NAVTEK NEF6LM 7.4V 2Ah 14.8Wh Cordless Flare Tool



## NAVTEK VACUUM GAUGE COUPLER

Looking for a better way to connect your vacuum gauge to your core tool or access port? The vacuum gauge coupler is a great solution.

Constructed of brass, this easy to use connector has a schrader core depressor at one end and an open port opposite. The angled fitting makes vacuum gauge connection quick and easy.



CODE	MODEL	DESCRIPTION
Q192	VGC1/4-1/4	Vacuum Gauge Coupler (angled) 1/4" x 1/4"

## NAVTEK RECOVERY MACHINE 3/8" MALE FLARE ADAPTOR

This little adaptor makes it possible to increase the inlet side of the NAVTEK NRDD recovery machines from 1/4" MFL to 3/8" MFL, allowing you to connect a NHB1 Hi-Flow Hose onto the inlet side of the machine whilst the 1/4" goes onto the system.

Use another NHB1 Hose from the 1/4" outlet of the machine onto a 3/8" cylinder adaptor and speed up your recovery rates even more!



One of these adaptors are included with the larger NRDC4M Recovery Machines, but not with the NRDD Recovery machine.

CODE	MODEL	DESCRIPTION
QN1027	NAV-FRA1438	NAVTEK 3/8" Male Adaptor for NRDD and NRDC4M Recovery Machines

## 3/8' CYLINDER ADAPTOR

Want to improve flow rates when charging and using a recovery machine, then using a 3/8" cylinder adaptor is the answer. Use in conjunction with standard 3/8" hoses or even better use the NAVTEK Big Boy Hi-Flow Hoses for the ultimate time saver when it comes to evacuation, recovery/reclaiming and re-charging.



CODE	MODEL	DESCRIPTION
M009	GBC3/8	Brass 3/8" Flare Cylinder Adaptor C/W Fibre Washer

**Belfast**

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