

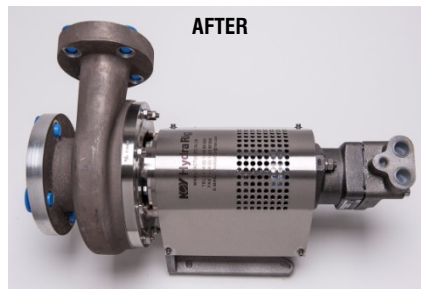
# Service Exchange Cryogenics

## NOV HYDRA RIG'S UK SERVICE EXCHANGE PROGRAM



NOV Hydra Rig's United Kingdom facility operates a service exchange program on a range of cryogenic components providing customers with a simple, cost effective solution to cryogenic component maintenance problems.

NOV Hydra Rig provides this service exchange program from specifically chosen, strategic geographical locations around the world; these locations currently being the UK to service both the UK and Europe and Dubai to service the Middle East and in the Far East.



### HOW THE PROGRAM OPERATES:

1. The customer requests a service exchange component from the service location.
2. The service location provides a fixed price and availability. (As long as the component is complete, the price is fixed and firm regardless of the conditions of the items.)
3. The customer issues a PO to cover the cost and the service location will send out the service exchange items.
4. Once the service exchange components are received, the customer exchanges the items by sending the damaged items back to the service location.
5. These are then rebuilt to "as new condition" and returned to stock.

### FEATURES AND BENEFITS:

- **Fixed Price**  
No need to obtain repair cost quotation. This simplifies the purchase order process and allows accurate maintenance budgeting.
- **Cost Effective**  
The customer receives components, remanufactured, to "as new condition".
- **Reliable**  
Each components if fully inspected for wear, all damaged parts are replaced with new and components are rebuilt with all new seals and gaskets.
- **Warranty**  
NOV Hydra Rig provides a 3 month limited warranty on poor workmanship and/or component failure. This is the same warranty as new components, for peace of mind.
- **Minimal Downtime**  
No time delays waiting for components to be repaired and returned minimizes the time the equipment is out of action.
- **Reduced Inventory**  
The local service locations ensure that replacement components are readily available and quickly shipped reducing the need to stock new components.

[www.nov.com/hydrarig/](http://www.nov.com/hydrarig/)  
[hrisales@nov.com](mailto:hrisales@nov.com)

7909 Parkwood Circle Drive  
Houston, Texas 77036  
United States  
Phone: 713 375 3700  
Fax: 713 346 7687

1020 Everman Parkway  
Fort Worth, Texas 76140  
United States  
Phone: 817 985 5000  
Fax: 817 985 5297

Excalibur Road  
Beacon Park  
Gorleston  
Great Yarmouth, Norfolk NR31 7RQ  
United Kingdom  
Phone: + 44 (0) 1493 666222  
Fax: + 44 (0) 1493 666249



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## CRYOGENIC ASSEMBLY SERVICE EXCHANGE COMPONENT RANGE

This service is not just dedicated to Hydra Rig cryogenics, we also offer a range of interchangeable components common to the other major cryogenic component manufacturers. For example ACD, Cryomec and CS&P.

As far as possible, the service exchange components stocked at each location will be tailored to best suit the needs of the region to provide inventory levels to ensure components are readily available at all times.

A sample of our available cryogenic assembly components that could be part of a regional service exchange program, and their codes, are listed below.



### CRYOGENIC ASSEMBLY COMPONENTS:

| Size   | Hydra Rig # | OEM #                            |
|--------|-------------|----------------------------------|
| 1.25"  | 2LD000001   | GMPPD (40386-1)                  |
| 1.25"  | 2LD000002   | GMPPD (40386-4)                  |
| 1.25"  | 2LD000003   | ACD GUPD 17K ( 50888-1)          |
| 1.25"  | 2LD00000X   | ACD GUPD 17K ( 50888-2)          |
| 1.25"  | 2LD000004   | CS&P 15K (627-02934)             |
| 1.25"  | 2LD000010   | CS&P (645-00010)                 |
| 1.25"  | 2LD000035   | CS&P (645-05066)                 |
| 1.50"  | 2LD000011   | Cryomec SG/XL ( 781781-1)        |
| 1.625" | 2LD000012   | ACD ( 15731-1)                   |
| 1.625" | 2LD000013   | GUPD (ACD 44410-1)               |
| 1.625" | 2LD000014   | CS&P (645-00011) (645-00024)     |
| 1.625" | 2LD000017   | GUPD (ACD 50777-1)               |
| 1.625" | 2LD000018   | GUPD (ACD 50777-2)               |
| 50mm   | 2LD000019   | Cryomec 781500-1                 |
| 1.938" | 2LD000020   | CS&P 645-05026<br>CS&P 645-05026 |
| 2.00"  | 2LD000021   | Cryomec 2" XL                    |
| 2.00"  | 2LD000022   | Weston CR150 2" GUPD             |
| 2.00"  | 2LD000023   | ACD 46080-1                      |
| 2.00"  | 2LD000024   | ACD LMPD 47200-1                 |

| Size             | Hydra Rig # | OEM #  |
|------------------|-------------|--|
| 2.00"            | 2LD000025   | Cryomec 15K (783311)<br>CS&P 627-02318             |
| 2.38"            | 2LD000026   | CS&P 645-05005                                     |
| 64mm             | 2LD000028   | Cryomec ( 786350)                                  |
| 64mm             | 2LD000029   | ACD (786355-1 Rev E)                               |
| 2.875"           | 2LD000030   | ACD (784880-1 Rev J)                               |
| 2.875"           | 2LD000031   | ACD (41805-2)<br>(47288-1)                         |
| 3.25"            | 2LD000034   | CRYOMECC (782763)<br>(CS&P 645-02306)              |
| 1.5" x 2.5" x 6" | 2LE100002   | Hydra Rig Centrifugal<br>Boost Pump                |
| 1.5" x 2.5" x 6" | 2LE100002   | ACD Centrifugal Boost<br>Pump 41340-1              |
| 1.5" x 2.5" x 6" | 2LE100002   | CS&P Centrifugal<br>Boost Pump<br>543-000054/239   |
| 1.5" x 2.5" x 6" | 2LE100002BS | Centrifugal boost pump<br>bare shaft 41340-2       |
| 2" x 3" x 6"     | 2LE100001   | Hydra Rig Centrifugal<br>Boost Pump<br>W-21PC-0001 |

### CONTACT INFORMATION:

#### United Kingdom

*HRUKspares@nov.com*  
Tel: +44 (0) 1493 651801  
Fax: +44 (0) 1493 651805

#### United Arab Emirates

*elvin.munoz@nov.com*  
Tel: +971 4 883 0414  
Fax: +971 4 883 7087

#### Far East

*khc@cts-my.com*

Cryogenic Tank Services (M) Sdn Bhd  
Lot 1310, Jalan Batu Arang,  
Sungai Bakau, 48000 Rawang,  
Selangor D.E.,  
Malaysia.  
Tel: +603 60920093  
Fax: +603 60923093

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7909 Parkwood Circle Drive  
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1020 Everman Parkway  
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Phone: 817 985 5000  
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Excalibur Road  
Beacon Park  
Gorleston  
Great Yarmouth, Norfolk NR31 7RQ  
United Kingdom  
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Fax: + 44 (0) 1493 666249

