



# 2022

**PETROLEUM DRILLING HOSE**



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# PALMFOX

## PF301 D | API Spec. 7K FSL 1 FSL 2 | ABS

### ROTARY DRILLING AND VIBRATOR HOSE

**Application:** Flexible connection between the upper end of the stand pipe and the top drive/swivel and between the pump and the lower end of the standpipe for pumping mud at high pressure in oil drilling, cementing, and well workover operations .

#### Hose Construction

**Inner Tube:** sythetic rubber/HNBR/UPE/PTFE

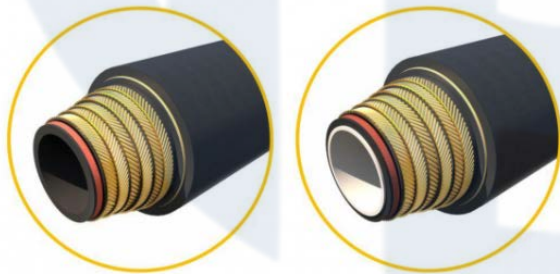
**Reinforcement:** multi-spiraled high tensile super flexible steel wire

**Outer Layer:** abrasion and weather resistant synthetic rubber

**Temperature Range:** -20°C~+121°C (-4°F~+250°F)

**Connector:** integral union, integral flange, or other connector types

**Full bore can be customized based on the requirements**



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| PRESSURE<br>LEVEL<br>(Psi) | I.D.<br>in | O.D.<br>mm | W.P.<br>Psi | P.P<br>Psi | Min.B.P.<br>Psi | Min.B.R.<br>mm | W.T<br>kg/m |
|----------------------------|------------|------------|-------------|------------|-----------------|----------------|-------------|
| 1500<br>Grade A            | 2          | 68         | 1500        | 2250       | 3750            | 800            | 4.3         |
|                            | 2 1/2      | 84         | 1500        | 2250       | 3750            | 800            | 5.6         |
| 2000<br>Grade B            | 2          | 68         | 2000        | 3000       | 5000            | 800            | 4.3         |
|                            | 2 1/2      | 84         | 2000        | 3000       | 5000            | 800            | 5.6         |
|                            | 3          | 97         | 2000        | 3000       | 5000            | 950            | 6.5         |
|                            | 3 1/2      | 113        | 2000        | 3000       | 5000            | 1000           | 8.5         |
|                            | 4          | 127        | 2000        | 3000       | 5000            | 1000           | 10.4        |
|                            | 5          | 157        | 2000        | 3000       | 5000            | 1200           | 14.0        |
|                            | 6          | 183        | 2000        | 3000       | 5000            | 1300           | 18.0        |
| 4000<br>Grade C            | 2          | 72         | 4000        | 6000       | 10000           | 800            | 6.4         |
|                            | 2 1/2      | 87         | 4000        | 6000       | 10000           | 800            | 8.7         |
|                            | 3          | 102        | 4000        | 6000       | 10000           | 1000           | 11.1        |
|                            | 3 1/2      | 119        | 4000        | 6000       | 10000           | 1200           | 14.4        |
|                            | 4          | 132        | 4000        | 6000       | 10000           | 1200           | 16.0        |
|                            | 5          | 162        | 4000        | 6000       | 10000           | 1400           | 24.5        |
|                            | 6          | 194        | 4000        | 6000       | 10000           | 1500           | 33          |
| 5000<br>Grade D            | 2 1/2      | 105.2      | 5000        | 7500       | 12500           | 914            | 8.7         |
|                            | 3          | 117.1      | 5000        | 7500       | 12500           | 1219           | 11.1        |
|                            | 3 1/2      | 133.4      | 5000        | 7500       | 12500           | 1372           | 14.4        |
|                            | 4          | 142.5      | 5000        | 7500       | 12500           | 1372           | 16.0        |
| 7500<br>Grade E            | 2          | 77         | 7500        | 11250      | 18750           | 900            | 8.5         |
|                            | 2 1/2      | 94         | 7500        | 11250      | 18750           | 1000           | 10.5        |
|                            | 3          | 110        | 7500        | 11250      | 18750           | 1000           | 18.5        |
|                            | 3 1/2      | 128        | 7500        | 11250      | 18750           | 1200           | 20          |
|                            | 4          | 150        | 7500        | 11250      | 18750           | 1400           | 30          |
|                            | 5          | 185        | 7500        | 11250      | 18750           | 1600           | 49          |
|                            | 6          | 212        | 7500        | 11250      | 18750           | 1600           | 60          |

# PF301 F

## SUPER ABRASION RESISTANT FRACHOSE



**Application:** Flexible line using for delivery water-based, oil-based, acid-based and foam fracturing fluids under high pressure in acid, sand and hydraulic fracturing works.

**Hose Construction**

**Inner Tube:** UPE and sythentic rubber

**Tube Type:** full flow

**Reinforcement:** multi-spiraled high tensile super flexible steel wire

**Outer Layer:** abrasion and weather resistant synthetic rubber

**Temperature Range:** -29°C~+100°C (-20°F~+212°F)

**Connector:** integral union , integral flange, or other connector types

| Size   | I.D. | O.D. | W.P.  | P.P   | Min.B.R. | W.T  | Volume  |        | Connector W.T | Connection Type                                           |
|--------|------|------|-------|-------|----------|------|---------|--------|---------------|-----------------------------------------------------------|
| inch   | mm   | mm   | Psi   | Psi   | m        | kg/m | bbl/min | m³/min | kg            |                                                           |
| 2"     | 45   | 95   | 15000 | 22500 | 1.4      | 18   | 9       | 1.46   | 53            | 3" figure 1502 hammer union or 3 1/16" 15K API flange     |
|        | 51   | 103  | 15000 | 22500 | 1.4      | 20   | 12      | 1.91   | 55            |                                                           |
| 2-1/2" | 58   | 121  | 15000 | 22500 | 1.5      | 26   | 14.8    | 2.34   | 57            |                                                           |
|        | 64   | 128  | 15000 | 22500 | 1.5      | 30   | 18.5    | 2.90   | 58            |                                                           |
| 3"     | 70   | 135  | 15000 | 22500 | 1.6      | 34   | 22      | 3.50   | 60            | 4" figure1502 hammer union or 4 1/16" 15K API flange      |
|        | 76   | 141  | 15000 | 22500 | 1.6      | 38   | 26      | 4.17   | 65            |                                                           |
| 4"     | 89   | 165  | 15000 | 22500 | 2.0      | 50   | 35.8    | 5.70   | 75            | 5 1/8" 15K API flange                                     |
|        | 102  | 171  | 15000 | 22500 | 2.0      | 56   | 47      | 7.47   | 85            |                                                           |
| 5"     | 120  | 210  | 15000 | 22500 | 2.1      | 68   | 62.9    | 10     | 155           |                                                           |
|        | 127  | 215  | 15000 | 22500 | 2.1      | 86   | 80      | 11.58  | 175           | 7 1/16"15K API flange                                     |
|        | 130  | 220  | 15000 | 22500 | 2.1      | 90   | 84      | 12.13  | 105           |                                                           |
| 6"     | 140  | 240  | 15000 | 22500 | 2.2      | 130  | 88.6    | 14.07  | 210           |                                                           |
| 2"     | 44   | 106  | 20000 | 30000 | 1.5      | 24   | 9       | 1.46   | 60            | 2" figure 2002 hammer union or 3 1/16" 20K API flange     |
|        | 51   | 112  | 20000 | 30000 | 1.5      | 26   | 12      | 1.91   | 65            |                                                           |
| 2-1/2" | 57   | 126  | 20000 | 30000 | 1.6      | 32   | 14.8    | 2.34   | 70            | 2 1/2" figure 2002 hammer union or 3 1/16" 20K API flange |
|        | 64   | 133  | 20000 | 30000 | 1.6      | 36   | 18.5    | 2.90   | 78            |                                                           |
| 3"     | 69   | 142  | 20000 | 30000 | 1.7      | 44   | 22      | 3.50   | 85            | 3" figure 2002 hammer union or 3 1/16" 20K API flange     |
|        | 76   | 145  | 20000 | 30000 | 1.7      | 46   | 26      | 4.17   | 98            |                                                           |

# PF301 C | API Spec. 7K FSL0 | ABS

## HIGH PRESSURE CEMENTING HOSE



**Application:** Flexible connection in the manifold for delivery water-based and oil-based cement slurries under high pressure.

### Hose Construction

**Inner Tube:** UPE and sythentic rubber or HNBR

**Reinforcement:** multi-spiraled high tensile super flexible steel wire

**Outer Layer:** abrasion and weather resistant synthetic rubber

**Temperature Range:** -20°C~+121°C (-4°F~+250°F)

**Connector:** integral union or integral flange

| PRESSURE LEVEL<br>Psi | I.D.<br>in | O.D.<br>mm | W.P.<br>Psi | P.P.<br>Psi | Min.B.P.<br>Psi | Min.B.R. mm | W.T<br>kg/m |
|-----------------------|------------|------------|-------------|-------------|-----------------|-------------|-------------|
| 10000                 | 2          | 83         | 10000       | 15000       | 22500           | 1000        | 10.8        |
|                       | 2 1/2      | 98         | 10000       | 15000       | 22500           | 1000        | 19.4        |
|                       | 3          | 129        | 10000       | 15000       | 22500           | 1400        | 28          |
|                       | 3 1/2      | 137        | 10000       | 15000       | 22500           | 1400        | 33          |
|                       | 4          | 154        | 10000       | 15000       | 22500           | 1600        | 38.5        |
| 15000                 | 2          | 101        | 15000       | 22500       | 33750           | 1200        | 20.5        |
|                       | 3          | 125        | 15000       | 22500       | 33750           | 1500        | 36          |
| 20000                 | 2          | 106        | 20000       | 30000       | 45000           | 1500        | 24          |
|                       | 3          | 142        | 20000       | 30000       | 45000           | 1700        | 44          |

# PALMFOX

# PF302 API Spec. 16C FSL0 FSL1 FSL2 FSL3 | ABS

## FLEXIBLE CHOKE AND KILL LINE



**Application:** Flexible connection in the chock and kill manifolds for delivery oil-gas mixture that containing hydrogen sulfide (H<sub>2</sub>S) and other dangerous gases and various water-based, oil-based and foam killing fluids under high pressure.

**Hose Construction**

**Inner Tube:** HNBR/UPE

**Bore Type:** full bore

**Reinforcement:** multi-spiraled high tensile super flexible steel wire

**Outer Layer:** high temperature and fire resistant synthetic rubber (resistant to 704 °C open fire for 30 minutes)

**Protective Layer:** stainless steel armor

**Temperature Range:** -29°C~+121°C (-20°F~+250°F)

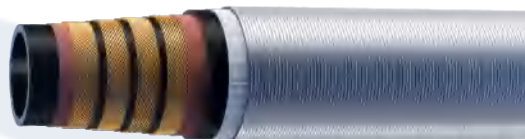
**Connector:** integral union or integral flange

| PRESSURE LEVEL | I.D.  | O.D. | W.P.  | P.P.  | Min. B.P. | Min.B.R. | W.T  |
|----------------|-------|------|-------|-------|-----------|----------|------|
| Psi            | in    | mm   | Psi   | Psi   | Psi       | mm       | kg/m |
| 5000           | 2     | 89   | 5000  | 7500  | 11250     | 1000     | 9.5  |
|                | 3     | 115  | 5000  | 7500  | 11250     | 1200     | 14.8 |
|                | 3 1/2 | 133  | 5000  | 7500  | 11250     | 1400     | 20   |
|                | 4     | 147  | 5000  | 7500  | 11250     | 1600     | 30   |
| 10000          | 2     | 96   | 10000 | 15000 | 22500     | 1200     | 15   |
|                | 2 1/2 | 126  | 10000 | 15000 | 22500     | 1600     | 25   |
|                | 3     | 140  | 10000 | 15000 | 22500     | 1600     | 33   |
|                | 4     | 167  | 10000 | 15000 | 22500     | 1800     | 52   |
| 15000          | 2     | 101  | 15000 | 22500 | 33750     | 1400     | 21   |
|                | 3     | 145  | 15000 | 22500 | 33750     | 1600     | 41   |
|                | 4     | 178  | 15000 | 22500 | 33750     | 2000     | 61   |

# PALMFOX

# PF303 | API Spec. 16D | Lloyds

## BOP CONTROL HOSE



**Application:** Hydraulic control line for remotely control the blowout preventer (BOP) at high pressure.

### Hose Construction

**Inner Tube:** NBR

**Reinforcement:** 4 plies of spiraled high tensile super flexible steel wire

**Outer Layer:** high temperature and fire resistant synthetic rubber

**Protective Layer:** stainless steel armor

**Temperature Range:** 40°C~+100°C (-40°F~+212°F)

Fire resistance meets API Spec. 16D, 704°C×5min

| I.D.  | W.P. | P.P. | Min.B.P. | Min.B.R. | W.T  |
|-------|------|------|----------|----------|------|
| in    | Psi  | Psi  | Psi      | mm       | kg/m |
| 1/2   | 5000 | 7500 | 15000    | 300      | 1.9  |
| 3/4   | 5000 | 7500 | 15000    | 400      | 2.7  |
| 1     | 5000 | 7500 | 15000    | 500      | 3.6  |
| 1 1/2 | 5000 | 7500 | 15000    | 700      | 5.3  |
| 2     | 5000 | 7500 | 15000    | 800      | 7.2  |

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# PF304

## MULTI - PURPOSE CRUDE OIL HOSE



**Application:** The hose is suitable for delivering petroleum products such as fuel oil, crude oil, gasoline, etc. The hose inner layer is made of polymer composites, which makes the hose with strong corrosion resistance and high lubrication characteristics. Its excellent chemical stability prevents it from reacting with chemical substances in petroleum products, ensuring safe and efficient transportation of the medium.

### Hose Construction

**Inner Tube:** polymer composites

**Reinforcement:** multi-spiraled high tensile textile cords and highly flexible steel helix wire

**Outer Layer:** sythetic rubber

**Temperature Range:** 40°C~+180°C (-40°F~+356°F) ;

**The hose pressure and inner diameter can be customized based on the requirements**

| I.D.  |     | W.P. | Safety Factor |
|-------|-----|------|---------------|
| in    | mm  | MPa  |               |
| 2     | 51  | 2~35 | 2.5           |
| 2 1/2 | 63  | 2~35 | 2.5           |
| 3     | 76  | 2~35 | 2.5           |
| 3 1/2 | 90  | 2~35 | 2.5           |
| 4     | 102 | 2~35 | 2.5           |
| 5     | 127 | 2~35 | 2.5           |
| 6     | 152 | 2~35 | 2.5           |

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# PF1202L

## UPE LOW PRESSURE MULTIPURPOSE HOSE

### Hose Construction

**Inner Tube:** UPE and EPDM synthetic rubber

**Reinforcement:** multi-spiraled high tensile synthetic fibers and highly flexible steel helix wire **Outer Layer:** black or blue EPDM synthetic rubber (UPE layer is available)

**Temperature Range:** -30°C~82°C (-22°F~180°F)

\*The hose dimension, pressure and color can be customized based on the requirements.



| I.D   |     | O.D  |      | W.P | Min.B.P | Min.B.R | W.T  |
|-------|-----|------|------|-----|---------|---------|------|
| in    | mm  | in   | mm   | psi | psi     | mm      | kg/m |
| 1/2   | 13  | 0.89 | 22.5 | 290 | 870     | 130     | 0.34 |
| 5/8   | 16  | 1.04 | 26.5 | 290 | 870     | 150     | 0.44 |
| 3/4   | 19  | 1.17 | 29.7 | 290 | 870     | 180     | 0.52 |
| 1     | 25  | 1.39 | 35.2 | 290 | 870     | 205     | 0.52 |
| 1-1/4 | 32  | 1.77 | 45   | 290 | 870     | 250     | 0.95 |
| 1-1/2 | 38  | 2.04 | 52   | 290 | 870     | 300     | 1.2  |
| 2     | 51  | 2.64 | 67   | 300 | 750     | 400     | 1.65 |
| 3     | 76  | 3.82 | 97   | 300 | 750     | 570     | 2.75 |
| 4     | 102 | 4.84 | 123  | 300 | 750     | 750     | 4.65 |

## RUBBER & PLASTIC SEALS



### Product Information:

**Materials:** NBR/HNBR/EPDM/FKM

**Temperature Range:** 55°C~+200°C (-67°F~+392°F)

**Product Features:** high temperature resistance, corrosion resistance, oil resistance, food grade product

**Application :** Suitable for the sealing of medium like hydraulic oil, corrosive solvent (such as strong acid and strong alkali), steam and water, etc. The products widely apply to petrochemical, construction machinery, coal mining machinery, food machinery, electrical equipment, metallurgical equipment, refrigeration equipment, shields machine and other industries.

## HAMMER UNIONS



**Figure 602 Threaded 6000 PSI CWP**

Specially Designed Lip Type Elastomer Seal Protects Metal to Metal Sealing Surface and Reduces Line Flow Turbulence

| Part Number | Size ( in. ) | Weight Each ( KG ) | Standard Carton |
|-------------|--------------|--------------------|-----------------|
| HUT602-1    | 1            | 1.70               | 4               |
| HUT602-2    | 2            | 5.85               | 4               |
| HUT602-3    | 3            | 10.34              | 2               |
| HUT602-4    | 4            | 16.80              | 1               |



**Figure 602 Butt Weld 6000 PSI CWP**

Specially Designed Lip Type Elastomer Seal Protects Metal to Metal Sealing Surface and Reduces Line Flow Turbulence

| Part Number | Size ( in. ) | Weight Each ( KG ) | Standard Carton |
|-------------|--------------|--------------------|-----------------|
| HUW602-2    | 2            | 6.28               | 4               |
| HUW602-3    | 3            | 11.93              | 2               |
| HUW602-4    | 4            | 17.19              | 1               |



**Figure 1002 Butt Weld 10,000 PSI CWP**

Specially Designed Lip Type Elastomer Seal Protects Metal to Metal Sealing Surface and Reduces Line Flow Turbulence

| Part Number | Size ( in. ) | Weight Each ( KG ) | Standard Carton |
|-------------|--------------|--------------------|-----------------|
| HUW1002-2   | 2            | 6.33               | 4               |
| HUW1002-3   | 3            | 11.70              | 2               |
| HUW1002-4   | 4            | 17.01              | 1               |



**Figure 1502 Butt Weld 15,000 PSI CWP**

Specially Designed Lip Type Elastomer Seal Protects Metal to Metal Sealing Surface and Reduces Line Flow Turbulence

| Part Number | Size ( in. ) | Weight Each ( KG ) | Standard Carton |
|-------------|--------------|--------------------|-----------------|
| HUW1502-2   | 2            | 9.07               | 2               |
| HUW1502-3   | 3            | 13.20              | 2               |
| HUW1502-4   | 4            | 35.63              | 1               |



## **Contact Us**

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