

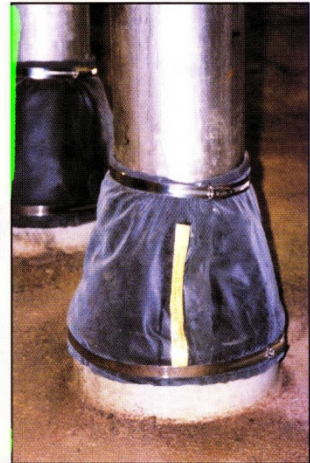
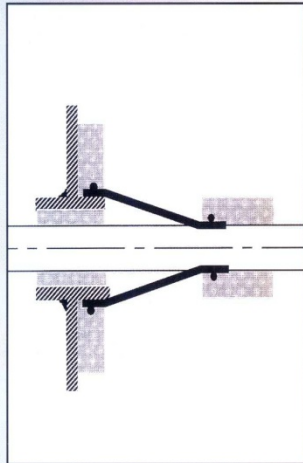
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# HPT

## Fire and Blast rated Flexible Seals



- **Seals pipe penetrations through decks.**
- **Seals pipe penetrations through bulkheads.**
- **Flexible - allows large relative movements.**
- **Quick and easy installation.**
- **Jetfire and hydrocarbon fire resistant.**
- **Blast resistant.**
- **Impact and weather resistant.**
- **Single and double sided seals.**
- **Manufactured in standard and special shapes.**
- **Tough and durable.**

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## Properties

### **RESISTANT TO:**

**Jetfire up to 1 hr. & H-120**

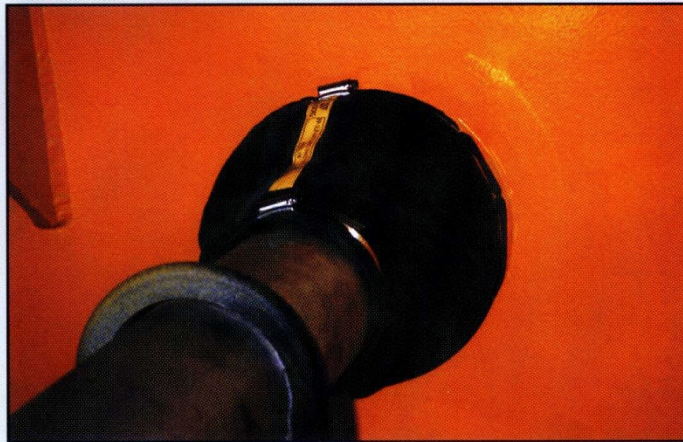
**Blast up to 1,25 bar**

**Seawater, process liquids**

**Ozone, UV-light**

**Extremely high movements**

**High impact**



## References

**Ekofisk (Phillips)**

**Åsgard A (Statoil)**

**Visund (Norsk Hydro)**

**Shearwater (Shell)**

**Britannia (Conoco)**

**Molikpaq (Marathon)**

**White Tiger (Petro Vietnam)**

**Ula (BP)**

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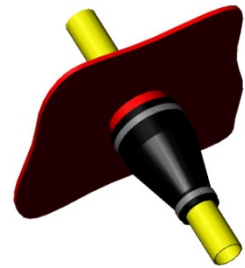
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**Range of products:**

- **Double Sided Pipe Penetrations Seals**
- **Single Sided Pipe Penetrations Seals**
- **Linear or Skirt Seals**
- **Expansion Bellows**
- **Vessel Seals**
- **Conductor Seals**

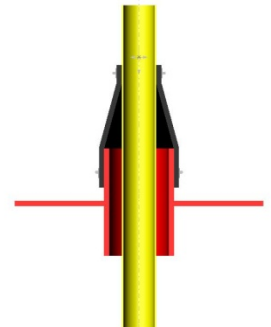


**Fire Rating and Blast**

- **Range of fire ratings from A-0 through H-120**
- **Jetfire**
- **Blast 1,25 bar**

**Type Approvals**

- **Lloyds's Register of shipping**
- **Det Norske Veritas (DNV)**



## Major Customers

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OPERATOR	PROJECT	PRODUCT
BP	Forties A, B and D	Blast & Fire Rated Pipe Penetration Seals
BP	Schehallion	Blast & Fire Rated Pipe Penetration Seals
BP	Grangemouth	Expansion Bellows
Enelco	Devonport Dockyard	Fire Rated Pipe Penetration Seals
Shell U.K.	Cormorant North	Blast & Fire Rated Pipe Penetration Seals
Shell U.K.	Eida	Blast & Fire Rated Pipe Penetration Seals
Shell U.K.	Brent	Blast & Fire Rated Pipe Penetration Seals
Texaco	Tartan Alpha	Blast & Fire Rated Pipe Penetration Seals
Texaco	Captain	Blast & Fire Rated Pipe Penetration Seals
Marathon Oil	Brae A & B	Blast & Fire Rated Pipe Penetration Seals
Phillips Petroleum Norway	Ekofisk 2/4-X	Blast & Fire Rated Pipe Penetration Seals
Phillips Petroleum Norway	Ekofisk 2/4-J	Blast & Fire Rated Pipe Penetration Seals
Shell Norway	Troll	Blast & Fire Rated Pipe Penetration Seals
Amoco Norway	Valhall	Blast & Fire Rated Pipe Penetration Seals
Samsung/Petro Vietnam	White Tiger	Blast & Fire Rated Pipe Penetration Seals
Samsung	Apache Stag	Fire Rated Pipe Penetration Seals
BHP	Liverpool Bay	Expansion Bellows
Agip	Tiffany	Blast & Fire Rated Pipe Penetration Seals
Conoco/Chevron	Britannia	Blast & Fire Rated Pipe Penetration Seals
Conoco/Chevron	Britannia	Blast & Fire Rated Linear Module Seals
Conoco/Chevron	Britannia	Blast & Fire Rated Linear Tank Seals
Conoco/Chevron	Britannia	Environmental Weather Seals
HMDC – Canada	Hibernia	Fire Rated HVAC Connectors
Oryx	Murchison	Insulation Jackets
Amoco	Montrose	Insulation Jackets
Statoil	Asgard	Jet Fire Rated Pipe Penetration Seals
Daewoo	Molikpaq	Fire Rated Linear Seals
Norsk Hydro	Visund	Blast & Fire Rated Pipe Penetration Seals
Chevron	Alba Phase IIb	Blast & Fire Rated Pipe Penetration Seals
Marathon	Sakhalin Island	Conductor Seals
Shell	Shearwater	Jet fire Rated Seals
Mobil	LAPS	Intake & Exhaust Seals
BP	Ula	Fire Rated Pipe Penetration Seals
Arco	Gawain	Insulation Jackets
ABB	Heimdal	Jet fire Rated Seals
Shell UK	Shearwater	Blast & Fire Rated Linear Seals
Shell UK	Shearwater	Blast & Fire Rated Pipe Penetration Seals
Hibernia HMDC	Hibernia	Conductor seals and flare boom seal
EN Canada	Terra Nova	Pipe Penetration seals
Philips	Bayu Undan	Jet Fire Rated Pipe Penetration Seal
BP	Lomond	Pipe Penetration Seals
BP	Valhall	Jet Fire Rated Pipe Penetration Seal
Statoil	Kvitebjørn	Jet Fire & Fire Rated Pipe Penetr. Seals
BP	Schehallion	Blast & Fire Rated Pipe Penetration Seals
Philips	Bayu Undan	Vessel Seals