

# BLH HOSE



## RECOMMENDED FOR :

- BOTTOM LOADING INSTALLATIONS
- LOADING ARMS FLEXIBLE HOSE TERMINAL
- HOSE TOWERS
- TANK TRUCKS BOTTOM LOADING OPERATIONS

## SPECIAL REINFORCEMENT FOR MINIMAL ELONGATION

## Applications

COMPOTEC® BLH Bottom Loading hose is a strong, robust and low elongation hose, suitable for the most demanding applications such as Loading arms, Hose towers, for transfer of :

- A wide variety of acids and solvents, (**BLH CHEM**)
- Aggressive chemicals (**BLH PTFE**)
- Hydrocarbon products including fuel oils, gasoline, diesel, lubricating oils, kerosene, and 100% aromatics (**BLH OIL**).

The major advantage of a BOTTOM LOADING hose, versus a traditional Loading Arm, is that it does not have a minimum number of connections, therefore eliminating much of the potential leak problems, minimizing the general cost.

## Construction

Extra strong / low elongation **Aramex** reinforcement, polypropylene films and fabrics, high density polyethylene films reinforcement, and Polyester film barrier layers. PVC coated polyester fabric cover, fire resistant, abrasion, weather and ozone resistant. On request, special **ELASTAR** outer PU based cover is available for superior resistant in the Marine environmental.

COMPOTEC® **BLH PTFE**, is constructed around a pure PTFE inner liner or NANOTECH liner on request.

## Specifications

Temperature range from -40°C to + 100°C -  
W.P. 15 Bar - Safety factor 5:1

COMPOTEC® **BLH** assemblies are tested at 1 ½ times rated working pressures for safety and reliability, in accordance with EN ISO 1402 (BS 5842:1980 clause 6.4). The securing ferrule, at one end of the hose, is permanently marked by embossing, with manufacturer's name, nominal bore, serial number and the test date. Full test certification including Electrical continuity test, can be supplied on request.

Burst pressure indicated, is at ambient temperature when tested in accordance with EN ISO 1402 (BS 5173 section 102.10:1990).

Electrical continuity is achieved by the two wires bonded to the end fittings, this helps dissipate accumulated charge and to avoid static flash. The electric resistance of hose assemblies is less than 1 ohm/mt, as required by EN ISO 8031:2009, 4.7. Upon request it's possible to manufacture **COMPOTEC® BLH** hoses in accordance to the Directive 94/9/EC "ATEX", with a special outer antistatic black cover and cable for ground connection.

Assemblies are suitable for use with a vacuum not exceeding 0.9 Bar. According to the Standard description, **COMPOTEC® BLH** hose meets the requirements for type AX & BX, for all products included in "Class 1".

COMPOTEC® **BLH** hoses can be supplied in the **FIRETEC** version to meet the Fire retardant performance criteria acc. to European Standards EN 13765:2010 Normative, Annex G, and with ADR self-extinguish CL1 characteristics.

**FIRETEC** hose utilize a series of fire retardant barriers and an outer cover made of special ADR self-extinguish CL 1 coated fabric.

All **COMPOTEC®** hoses meet the EN, CE, AS, U.S. Coast Guard requirements, NAHAD Guidelines, are Lloyd's and DNV approved.

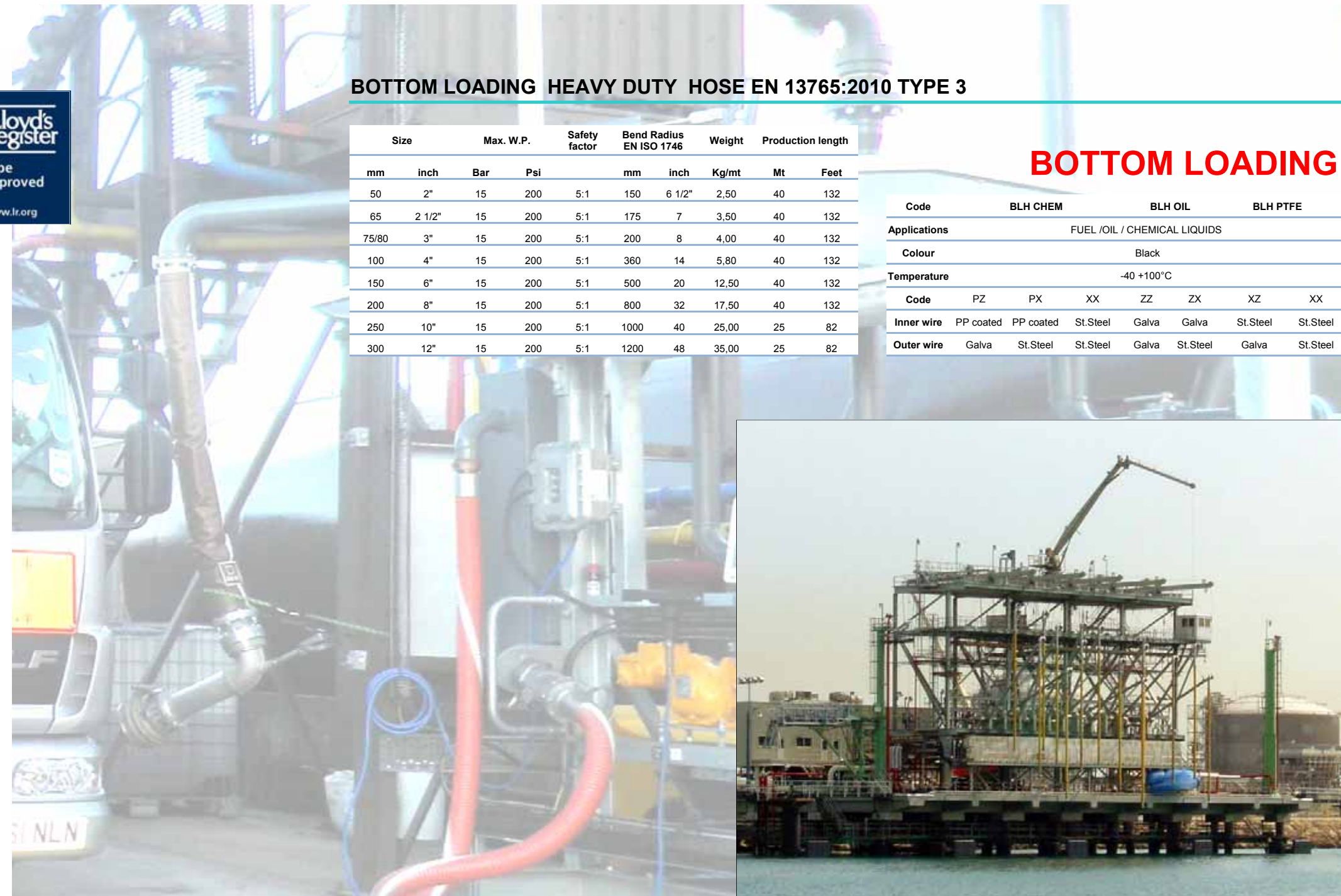


## BOTTOM LOADING HEAVY DUTY HOSE EN 13765:2010 TYPE 3

Size		Max. W.P.		Safety factor	Bend Radius EN ISO 1746		Weight		Production length	
mm	inch	Bar	Psi		mm	inch	Kg/mt	Mt	Feet	
50	2"	15	200	5:1	150	6 1/2"	2,50	40	132	
65	2 1/2"	15	200	5:1	175	7	3,50	40	132	
75/80	3"	15	200	5:1	200	8	4,00	40	132	
100	4"	15	200	5:1	360	14	5,80	40	132	
150	6"	15	200	5:1	500	20	12,50	40	132	
200	8"	15	200	5:1	800	32	17,50	40	132	
250	10"	15	200	5:1	1000	40	25,00	25	82	
300	12"	15	200	5:1	1200	48	35,00	25	82	

## BOTTOM LOADING

Code	BLH CHEM		BLH OIL		BLH PTFE		
Applications	FUEL /OIL / CHEMICAL LIQUIDS						
Colour	Black						
Temperature	-40 +100°C						
Code	PZ	PX	XX	ZZ	ZX	XZ	XX
Inner wire	PP coated	PP coated	St.Steel	Galva	Galva	St.Steel	St.Steel
Outer wire	Galva	St.Steel	St.Steel	Galva	St.Steel	Galva	St.Steel



# BOTTOM LOADING

DNV Det Norske Veritas Cert. n. CERT-04193-99-AQ IND-SINCERT  
EN 13765:2010, approved from CEN  
Directive 97/23/CE "PED" with operating Procedures certified from DNV - CE PED 07.0056.06/2585  
Directive 94/9/CE "ATEX" hose for explosive atmospheres, Cert. held by DNV Rec. nr. CE ATE 08.0117.06/2617 - (AS 2430.1-1987)  
BS 5842:1980 (Conf. 1986)  
BS 3492:1987  
AS 2683-2000 (Hose & hose assemblies for distribution of petroleum and petroleum products)  
AS 2117-1991 (Hose & hose assemblies for petroleum and petroleum products - Marine suction and discharge)  
NAHAD Guidelines (NAHAD 600/2005)

#### Test procedures:

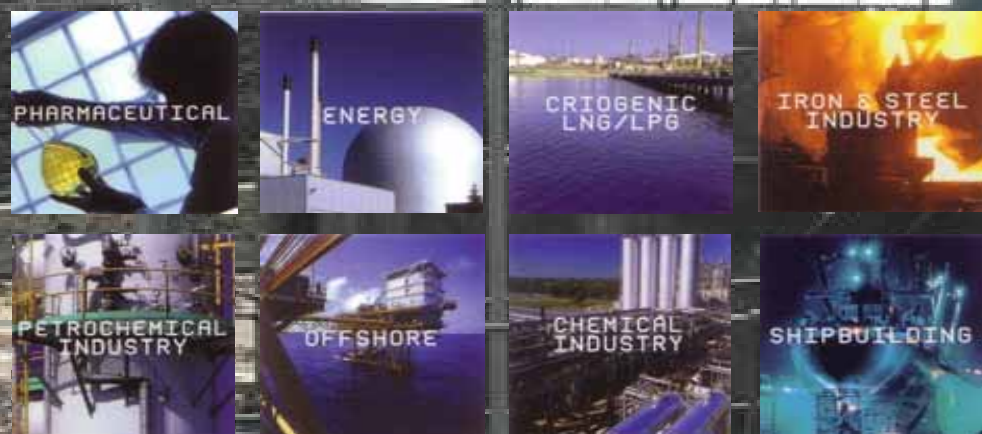
BS 5173-102.10:1990 section 102.10 - (EN ISO 1402)  
AS1180.5-1999 (method 5)  
AS 1180.13B (Electrical resistance)  
AS1180.13C (Electrical continuity)

#### Type Approval

Lloyd's Register Type Approved - Cert. N° 13/00002  
DNV - Det Norske Veritas - Type Approval Cert. N° P-12369  
RINA - Registro Italiano Navale - Cert. N° MAC/81398/1/TO/99  
Russian Maritime Register of Shipping  
IBC Code Chapter 5 - Ship's Cargo hoses  
IMO Chemical Carrier Code - Paragraphs 2:12 and 5:7

#### Welding Process

in according to EN 15608:2005 - EN 439:1996 - EN 15614-1:2005 - EN 6848:2005  
- EN 12072:2001 certified by DNV - Det Norske Veritas  
in according to ASME IX certified by RINA



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# COMPOTEC®