

Oil & Petrochemical

FLEXIBLE ENGINEERING

A642, A643, A644 heavy-duty oil hose to BS EN 1765:2016 A range of loading and unloading hoses for dockside transfer

Product description

A642, A643, A644 are a range of medium and heavy-duty dockside and jetty hoses designed for ship-to-shore transfer of crude oils and other grades of liquid petroleum products. These hoses are designed for operating environments that require a robust assembly to withstand rough handling and high working pressures.

Lining

Nitrile rubber to convey all grades of liquid petroleum products having a maximum aromatics content of 50%. High-strength breaker fabric is added to reinforce the bond between the lining and carcass. Viton™ rubber is also available for more aggressive hydrocarbons and applications with 100% aromatic content.

Quality assurance

A642, A643 and A644 dockside hoses are designed to meet the highest safety standards and are manufactured in accordance with BS EN 1765:2016 types S7, S10 and S15.

Temperature range

-20°C to +82°C.

Reinforcement

Multiple layers of rubber coated high-strength cords surround a single high-tensile steel wire helix for optimum flexibility, high-vacuum, stability under pressure and external crush-loading protection.

Coupling System

Carbon steel full-bore twin-band nipples are permanently built-in and vulcanised with slip-on or weld neck ANSI B16.5 flanges. Couplings can be galvanised, plated or painted if required. High-strength reinforcements strengthen the carcass around the nipples to protect against end-loading. Hoses can be supplied electrically continuous or discontinuous.

- Custom-built assemblies
- Built-in full-bore couplings
- High-strength design
- Viton™ rubber available



A644 dock hoses for oil transfer

Testing and certification

Hoses are proof tested to 1.5 x working pressure. Test certificates and flange and nipple material certificates are issued as required.

Third-party certification

Inspection and witness testing is also available upon request.

Specification	Type	Pressure rating	Vacuum rating
A642	S7	7 bar	-0.85 bar
A643	S10	10 bar	-0.85 bar
A644	S15	15 bar	-0.85 bar



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Physical data

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Cover

Smooth, hard-wearing neoprene rubber to protect against abrasion, oil, and sea water with optimum resistance to the effects of exposure to sunlight and weathering. High-strength breaker fabric is added to reinforce the bond between the cover and main carcass.

Branding

Each hose is permanently branded at both ends with a unique serial number, assembly bore size, date of manufacture, working pressure, manufacturer brand and BS EN designation.

Nominal physical data

Bore size		Nom Weight	Outside diameter	Min bend radius
Inch	mm	kg/mt	mm	mt

A642 oil suction and discharge hose

3	80	5.3	102	0.45
4	100	6.8	127	0.60
6	150	13.0	185	0.85
8	200	19.7	241	1.10
10	250	29.0	300	1.35
12	300	37.0	353	1.60

A643 oil suction and discharge hose

3	80	5.9	104	0.45
4	100	7.5	130	0.60
6	150	14.1	188	0.85
8	200	21.1	244	1.10
10	250	31.2	302	1.35
12	300	39.0	356	1.60

A644 oil suction and discharge hose

3	80	6.5	107	0.45
4	100	8.3	132	0.60
6	150	15.2	191	0.85
8	200	22.6	246	1.10
10	250	33.0	305	1.35
12	300	43.2	361	1.60

The above sizes are available up to 12 metre lengths. Other sizes are available on request.
Viton™ is a trademark of The Chemours Company FC, LLC.

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- Built-in full-bore couplings
- High-strength design
- Viton™ rubber available