

Appendix 10-D

Hose Markings and Connections

Appendix 10-D Hose Markings and Connections

Revision History

Revision Number	Date	Section	Changes
1	December 2022	1 Standardised Hose Markings & Connections	Table updated to correct previous errors with vessel coupling type and hose outline image
		2 Hose Connections	Updated images for standard hose connection examples. Additional notes added to the end of this section to highlight manual handling and failure point risk related to the use of additional crossovers and adapters.
1.1	August 2026	All	Appendix changed from 10-E to 10-D

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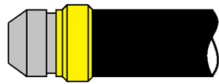
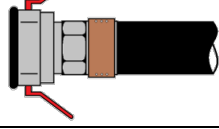
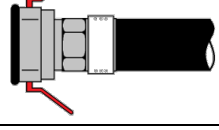
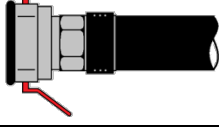
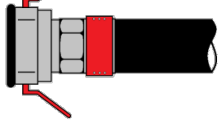
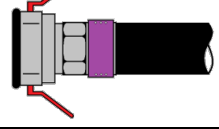
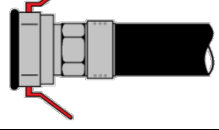
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1 Standardised Hose Markings & Connections

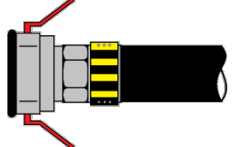
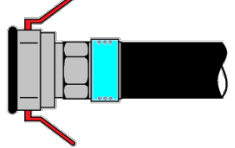
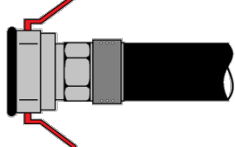
Hoses and hose terminations should be product-identified via high visibility bands, tape or other means.

Below is the colour coding to be used for the Hose End Coupling (colour refers to coupling and not hose) which is passed to the offshore support vessel.

Hose Application	Coupling Colour	Standard Connection	Vessel Coupling	Standard Pressure Rating <i>Hoses & Couplings</i>	Hose Outline
Dry Cement	Yellow	5" hammer lug union (figure 50)	Female	Min 12 bar	
Dry Barytes & Bentonite	Orange	5" hammer lug union (figure 50)	Female	Min 12 bar	
Potable Water	Blue (Orange hose)	4" hammer lug union (figure 100)	Female	Min 12 bar	
Diesel / Marine Gas Oil	Brown	4" quick release self-sealing coupling	Male	Min 12 bar	
Base Oil	White	4" quick release self-sealing coupling	Male	Min 12 bar	
Drill Water	Green	4" hammer lug union (figure 100)	Female	Min 12 bar	
Oil Based Mud	Black	4" quick release self-sealing coupling	Male	Min 24 bar	
Brine	Red	4" quick release self-sealing coupling	Male	Min 24 bar	
Glycol (if separated)	Purple	4" quick release self-sealing coupling	Male	Min 12 bar	
Scale Inhibitor (if separated)	No colour	4" quick release self-sealing coupling	Male	Min 12 bar	

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Hose Application	Coupling Colour	Standard Connection	Vessel Coupling	Standard Pressure Rating <i>Hoses & Couplings</i>	Outline
Drill Cuttings <i>(if separated)</i>	No colour	5" hammer lug union <i>(figure 50)</i>	Female	Min 24 bar	
Methanol	Black and Yellow <i>Tiger stripes</i>	4" quick release self-sealing coupling	Male	Min 12 bar	
Water Based Mud <i>(if separated)</i>	Cyan	4" quick release self-sealing coupling	Male	Min 24 bar	
Rig Slop / Wet Bulk Waste <i>(if separated)</i>	Dark Grey	4" quick release self-sealing coupling	Male	Min 24 bar	

Notes

1. Manufacturers' identification or approval of hoses is often by spiral-coloured bands. **Do not confuse** this with product colour markings.
2. References to figure values, in brackets, in the above table relate to particulars of the screw connection.
3. In some areas, the same hose may be used for all classes of mud, being flushed between product changes. The same can be true for methanol, glycol, and scale inhibitor.
4. Further information regarding hose types, testing, flotation etc. can be found in Appendix 10-C included in these guidelines.

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2 Hose Connections

Some examples of hose connections are illustrated in the table below.

Description	Picture
Quick release self-sealing coupling	 The image shows two components of a quick release self-sealing coupling. On the left is the 'Female' connector, which is black with a red handle and a central opening. On the right is the 'Male' connector, which is black with a flange and a central protrusion. Arrows point from the labels 'Female' and 'Male' to their respective parts.
Hammer lug union	 The image shows two components of a hammer lug union. On the left is the 'Female' connector, which is a black ring with a yellow band. On the right is the 'Male' connector, which is a black ring with a hammer lug. Arrows point from the labels 'Female' and 'Male' to their respective parts.

Notes

1. Self-sealing connections should be inspected when released to ensure full closure and that no liquid is being passed.
2. To accommodate possible mismatches, vessels should carry sufficient crossovers onboard, typically including the following:
 - a. From 4" female hammer lug figure 100 to 4" male quick release self-sealing coupling.
 - b. From 5" male hammer lug to 5" female hammer lug.
 - c. From 5" female hammer lug figure 50 to 4" female hammer lug figure 100
 - d. From 4" male quick release self-sealing coupling to 4" female hammer lug figure 100.
3. The use of crossovers and adapters should be carefully considered. Adding crossovers and/or additional connections will lead to increased manual handling risks that should be subject to additional risk assessment.
4. Each additional crossover introduces a potential point of failure and should be avoided unless necessary. Each additional connection should be carefully risk assessed.