

API 17H Hydraulic Interfaces for Hot Stabs

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Introduction

Pressure-balanced hot stabs are a common means to make both temporary and permanent subsea hydraulic connections. A large variety of types, sizes and standards have been used during the last 40 years. As the subsea industry has grown and standards have been independently developed and refined, inconsistencies have occurred that have adversely impacted the establishment of a universal standard.

The intent of Technical Report 17TR15 is to clarify and define the most commonly used hot stab types, as well as some obsolete sizes. It groups them into three major categories. The goal of the Technical Report is to increase standardization and to maintain backward compatibility and interchangeability with existing installations and with previous publications (API 17H, API 53, and API 16D).

The document utilizes a strategy of controlling the receptacle interface dimensions to allow more latitude for the male hot stab design.

This Technical Report is to be incorporated into the next edition of API 17H.

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API 17H Hydraulic Interfaces for Hot Stabs

1 Scope

This Technical Report describes a number of common or previously used ROV hydraulic hot stab and receptacle configurations. The intent is to ensure backward compatibility of the hot stab described in API 17H Second Edition, June 2013, and to align API 17H with API S53, API 17D, and API 16D. This Technical Report defines three major categories of hot stabs and describes the geometry to maintain compatibility across all manufacturers.

2 Normative References

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

API Recommended Practice 17H, *Remotely Operated Tools and Interfaces on Subsea Production Systems*

API Standard 53, *Blowout Prevention Equipment for Drilling Wells*

API Specification 16D, *Control Systems for Drilling Well Control Equipment and Control Systems for Diverter Equipment*

EEMUA Publication 194¹, *Guidelines for materials selection and corrosion control for subsea oil and gas production equipment*

3 Terms, Definitions and Abbreviations

3.1 Terms and Definitions

For the purposes of this document, the following terms and definitions apply.

3.1.1

hot stab

Pressure balance coupling utilized for making temporary and permanent subsea fluid connections.

3.1.2

manufacturer

Company responsible for the manufacture of the equipment.

3.2 Abbreviated Terms and Symbols

For the purposes of this document, the following abbreviated terms and symbols apply.

API	American Petroleum Institute
BCP	blowout preventer
BSPP	British Standard Pipe
EEMUA	Engineering Equipment and Materials Users Association
NPT	National Pipe Thread
OD	outer diameter

¹ The Engineering Equipment and Materials Users Association, 16 Black Friars Lane, London, U.K., EC4V 6EB