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C2Po1B-05 [16]: Non-standard Valves for Helium Cryogenics: from Specification till Installation and Commissioning

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Cryogenic valves are indispensable components for the reliable operation and controlling of cryogenic facilities. The key controlling components are cryogenic valves, which are used to regulate the flow of cryogenic fluids or to liquefy gases. Helium cryogenics typically has additional requirements, for example, very low heat loads, high leakage tightness, etc, which leads to specialized solutions like valves with long (stem) length, thin wall thicknesses, bellows for leakage tightness, high manufacturing tolerances. In some cases, very specialized valves are required, e.g. regulation and safety (for helium gas release after superconducting magnet quench), extra-long stems, etc. The present paper gives some comments and notes from practical experience on specification, installation and commissioning of cryogenic valves and Johnston couplings. Non-standard valves with specialized options, which could be helpful for special application areas, are discussed in details. Present trend in cryogenic valve developments as well as future possible valve improvements are also outlined.

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