

ANSI/ASME B73.1 vs B73.2 Pump Standards (Oil & Gas)

ANSI/ASME B73.1 and B73.2 are standards for centrifugal pumps in chemical and process industries. B73.1 covers **horizontal end-suction, single-stage** pumps (centerline discharge) (1), whereas B73.2 covers **vertical inline, single-stage** pumps (suction and discharge on one centerline) (2). Both standards mandate dimensional interchangeability of pump nozzles, shafts and mounting (so that pumps of the same "ANSI size" are interchangeable across manufacturers) (3) (4). Originally developed for chemical plants, these pumps are widely used in oil & gas (petrochemical and water handling) services (5). The table below compares key attributes of B73.1 (horizontal) vs. B73.2 (vertical) pumps in oil/gas applications:

Aspect	ANSI/ASME B73.1 (Horizontal End-Suction)	ANSI/ASME B73.2 (Vertical In-Line)
Pump Configuration	Orientation: Horizontal, end-suction, single-stage (centerline discharge) (1). Mounting: Foot-mounted on baseplate (standard ANSI layout).	Orientation: Vertical, in-line, single-stage (suction & discharge flanges co-linear) (2). Mounting: Direct pipe-mounted (no separate base).
Design / Interchange	Features: Foot-mounted design; ANSI B73.1 defines standard dimensions for suction/discharge locations, shaft, baseplate and bolt-hole pattern (3).	Features: In-line design; ANSI B73.2 likewise standardizes nozzle locations for interchange (4). Many models are <i>back-pull-out</i> (rotating assembly removable without disturbing piping) (5).
Hydraulic Performance	Capacity/Head: Wide range. Example – a low-flow B73.1 pump: 290 GPM at 925 ft head (6) (larger ANSI pumps reach thousands of GPM and several hundred feet head). Efficiency: Comparable to standard centrifugal pumps of similar size.	Capacity/Head: Similar range. Example – vertical B73.2 pumps: up to ~2,420–2,700 GPM and ~920–950 ft head (7) (8). Flow rates and heads are limited by single-stage design. NPSH: Vertical inlet (90° turn) causes slightly higher NPSH requirement than an equivalent horizontal pump (9).
Materials (Wetted)	Options: Metallic or solid polymer (B73.1 explicitly allows plastic pump bodies) (10). Common wetted materials: carbon steel, cast iron, 304/316 SS, high-strength stainless (CD4MCu/ A743), Alloy 20 (NiCu), duplex and nickel alloys (Hastelloy B/C), etc. (11). Corrosion allowance per spec.	Options: Metallic only. Standard: heavy-duty carbon-steel casing with 316L SS shaft (12). Also offered in 304/316 SS, duplex/super-duplex SS, nickel alloys (Alloy 20, Hastelloy), titanium, etc. High-alloy construction for corrosive hydrocarbons or sour service. (B73.2 does not cover solid-polymer designs.)

Asme B73 Pump Standards

Judd E. Hollander



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