

API Standard

609

7th Edition, October 2009
Butterfly Valves: Double-flanged,
Lug- and Wafer-type

Annex B

Information to be Specified by Purchaser

B.1 Deviating Requirements

If the purchaser needs a butterfly valve that deviates from this standard, the deviating requirements shall be stated in the purchase order.

B.2 Purchase Order

If no exceptions are to be taken to this standard, the purchase order need only refer to API 609 and specify the items listed in 2.1 and any optional items listed in B.2.2. Section B.2.3 lists items where agreement between purchaser and manufacturer is required.

B.2.1 Required on the Purchase Order

The following items are required on the purchaser order.

- a) Valve size and class (see 1.1).
- b) Valve Category: A or B (see 1.1).
- c) Type of body style (double-flanged, lug- or wafer-type) (see 1.2 and 4.2.1 to 4.2.3).
- d) For double-flanged valves, specify either a long pattern or a short pattern (see Table 3). Note Class 300 short pattern has two sets of dimensions. Purchaser must specify which is required.
- e) Type of mating flange (slip-on, welding-neck, or other), mating flange specification, and flange bore or pipe inside diameter, as applicable. The purchaser should verify disc clearances with the valve manufacturer (see 1.2 and 4.4).
- f) Unidirectional or bidirectional flow and pressure shutoff requirement (see 4.7.3).
- g) Whether dead-end service is required (see 4.7.4).
- h) Operator type: lever or other (see 4.8).
- i) Materials of construction, including those for trim and those for packing or shaft seals (see Section 5).

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B.2.2 Items That May be Specified

The following items may be specified on the purchase order:

- a) conformance with API 607 for applications where a fire-tested valve is required (see 4.1.2);
- b) lockable device (see 4.1.3);
- c) end flanges attached by welding (see 4.2.3);
- d) drain or bypass connections (see 4.2.4);
- e) through drilling or special tapping of lug-bolt holes (see 4.6);
- f) electrical continuity requirement (see 4.9);
- g) on-off or throttling service (see 4.8.1);
- h) operating conditions including maximum operating temperature, flow rate or line velocity, maximum pressure drop, fluid media, and specific gravity (see 4.8.2);
- i) packing or shaft seal materials (see 5.4);
- j) inspection by the purchaser (see 6.2);
- k) export packaging (see 8.3);
- l) special external coating (see 8.1);
- m) recommended spare parts information (see 8.4).

B.2.3 Where Agreement Between the Purchaser and the Manufacturer is Required

The following list contains the items where agreement between the manufacturer and purchaser is required:

- a) gasket surface interruptions for NPS 4 and smaller (see 4.7.2);
- b) seat ratings for materials not listed in Table 1 (see 3.3.1);
- c) use of welded on body extensions or flanges (see 4.2.3).

B.3 Additional Items

Refer to API 598 for additional items that may need to be specified, including supplementary examination, the extent of inspection by the purchaser, the inspector's address, and optional high-pressure closure test.