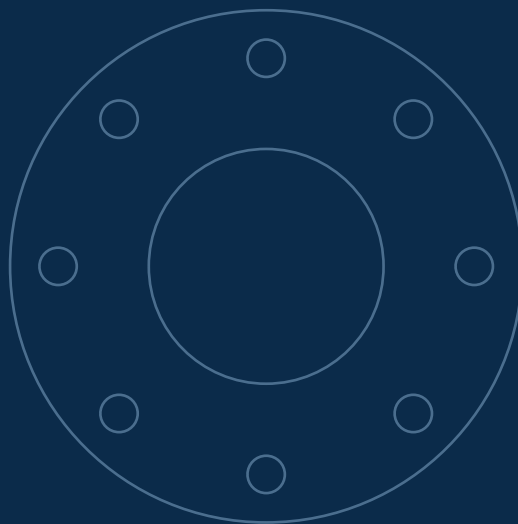


PRODUCT FAMILY BROCHURE

Flanges

Pipe and specialty flanges in carbon steel, stainless steel and duplex grades, supplied to ASME B16.5, B16.36 and project-specific requirements. Dimensional inspection and material traceability are available on every order.



DOCUMENT
Family brochure

FAMILY	Flanges
PRODUCT TYPES	8
RANGE PAGES	2
REVISION	Rev. 04
ISSUED	15 September 2026

Flanges

ASME and custom flange configurations for pipe, vessel and specialty connections.

Pipe and specialty flanges in carbon steel, stainless steel and duplex grades, supplied to ASME B16.5, B16.36 and project-specific requirements. Dimensional inspection and material traceability are available on every order.

RANGE PAGES

ITEM	VALUE
Pipe Flanges	ASME B16.5 flanges for welded, threaded and bolted pipe connections in carbon and stainless steel.
Specialty Flanges	Reducing and orifice flanges for line-size transitions and differential-pressure flow measurement.

STANDARDS

- ASME B16.5
- ASME B16.47
- ASTM A105 / A182
- ASME B1.20.1
- ASME B16.36

MATERIALS

ASTM A105 · ASTM A182 F304L · ASTM A182 F316L · ASTM A350 LF2 · ASTM A182 F316

Ordering and technical support

sales@belvantaglobal.com · +1 (713) 555-0140 · www.belvantaglobal.com

1200 Industrial Parkway, Houston, TX 77032, United States

Quotations are prepared against the released specification. Certified drawings are issued with the order.

PRODUCT TYPES

The family brochure is supported by type-level datasheets and range drawings.

Weld Neck Flange

ASME B16.5

Butt-welded flange with a tapered hub for high-pressure and cyclic service.

- Tapered hub distributes stress into the pipe wall
 - Butt-weld connection suitable for radiography
 - Raised-face, flat-face and RTJ options
-

Slip-On Flange

ASME B16.5

Economical flange that slips over the pipe and is fillet-welded in place.

- Lower cost than weld neck construction
 - Easier field alignment before welding
 - Suitable for low- and medium-pressure service
-

Blind Flange

ASME B16.5

Solid flange for isolating or terminating a pipe, valve or vessel connection.

- Positive isolation of line ends and test boundaries
- Raised-face, flat-face and RTJ sealing
- Optional tapped connections for instruments or drains

PRODUCT TYPES

The family brochure is supported by type-level datasheets and range drawings.

Lap Joint Flange

ASME B16.5

Two-piece flange and stub end assembly for easy bolt-hole alignment.

- Rotating flange simplifies bolt alignment
- Stub end can be a different alloy from the flange
- No weld at the flange face

Socket Weld Flange

ASME B16.5

Compact flange for small-bore high-pressure piping with a socket weld connection.

- Compact small-bore connection
- Good alignment without backing rings
- Suitable for high-pressure utility and instrument lines

Threaded Flange

ASME B16.5

Tapped flange for small-bore connections where welding is not practical.

- No welding required
- Suitable for utility and instrument connections
- NPT and BSP threads

PRODUCT TYPES

The family brochure is supported by type-level datasheets and range drawings.

Reducing Flange

ASME B16.5

Single flange that transitions between two line sizes at a bolted connection.

- Combines reducer and flange in one component
 - Reduces bill of materials and joint count
 - Available in concentric and eccentric bores
-

Orifice Flange

ASME B16.36

Tapped flange pair for orifice plates and differential-pressure flow measurement.

- Integral pressure taps for flow measurement
- Jack screws for plate removal
- Matched flange pair with plate and gaskets

ORDERING AND DOCUMENTATION

Every order is confirmed against the released specification. The documentation package can include material certificates, dimensional inspection records, pressure test reports and NDE records. Project-specific drawings and certificates are issued against the order.

RANGE AT A GLANCE

PRODUCT TYPE	PRIMARY STANDARD	RANGE PAGE
Weld Neck Flange	ASME B16.5	Pipe Flanges
Slip-On Flange	ASME B16.5	Pipe Flanges
Blind Flange	ASME B16.5	Pipe Flanges
Lap Joint Flange	ASME B16.5	Pipe Flanges
Socket Weld Flange	ASME B16.5	Pipe Flanges
Threaded Flange	ASME B16.5	Pipe Flanges
Reducing Flange	ASME B16.5	Specialty Flanges
Orifice Flange	ASME B16.36	Specialty Flanges

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