



PRESSURE VESSEL PRODUCTS

Forged Vessel Connections

an AMERIFORGE GROUP company

FVC is a leading supplier of open die forgings. In addition to long weld neck connections, FVC offers an extensive line of specialized and custom forgings (rough or finished) to meet your specific requirements. We are committed to supplying quality products in the form of pressure vessel connections and related forging needs to our valued customers.

FVC is a major U.S. manufacturer of integrally self-reinforced, seamless nozzles. Standard products include:

- Long Weld Necks
- Heavy Barrel Type HB Necks
- Variable Body Type V₁, V₂, V₃ Necks
- Full Body Type F(S) Necks
- Studding Outlets
- Q Nozzles

The “Q” type attachments are used wherever full penetration welding and 100% X-ray is required. All these products are available in sizes and configurations to meet your specific needs and can be supplied with flat bottoms or contoured to cylindrical or spherical radius. FVC carries a wide range of inventory for the above items.

Customized products manufactured by FVC include:

- transition nozzles
- feed water nozzles
- valve bodies
- meter housings
- manways
- wellhead components
- cylinders
- blocks
- stub ends
- blinds
- thimbles

FVC maintains a large inventory of standard products in a wide range of sizes and pressure ratings. Both finished machined and unfinished forgings are available for fast delivery from stock. A large inventory of raw material billets and bars is also maintained to provide rapid manufacturing of special and custom products.

FVC in-house engineering is available to assist you in forging design, material selection, and custom forged product development. Our experienced engineering staff is equipped to serve your needs with 3D and 2D design software and electronic drawing/data transmission capabilities.

FVC nozzles are forged from hot rolled bar, hot rolled billet or forged billet. All raw materials used are electric furnace, vacuum degassed and fully-killed steel with stringent quality specifications. Heat treatment, machining, drilling and contouring are standard controlled processes at FVC. Our standard, stocked products are available in:

Carbon Steel:

- SA105(N)
- SA105-HIC
- SA350-LF1
- SA350-LF2
- SA266-GR4
- SA765-GR2
- A707-L3
- 4130
- 4340
- 8620

Alloy Steel:

- SA350-LF3
- SA182-F5
- SA182-F9
- SA182-F11
- SA182-F12
- SA182-F22
- SA182-F91
- A694-F65

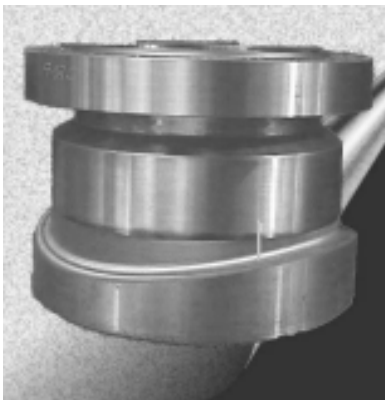
Stainless Steel:

- SA182-F304 (L)
- SA182-F304H
- SA182-F316(L)
- SA182-F347

Materials other than these listed are available upon special request.

FVC can produce forgings of over 60 inches in length, up to 25,000

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pounds in weight and with an outside diameter of up to 68 inches. FVC has a full range of in-house and sub-contracted machine capability available. FVC press capabilities include a 900-ton, 1000-ton, and a 3,500-ton hydraulic press.

FVC has been certified to ISO 9001 since 1994. FVC products are manufactured in conformance to various codes and standards including:

- ASME Boiler and Pressure Vessel Code Sections I, II, V, and VIII (Division 1, 2, and 3)
- ASME B16.5
- API 605
- MSS – SP44
- NACE MR0175

Each FVC product is shipped with a certified material test report (MTR), which includes chemical and

mechanical properties for the specific heat of steel.

FVC testing capabilities include:

- Chemical analysis
- Tensile property tests
- Impact tests
- Hardness tests
- Nil-ductility testing
- H.I.C. testing
- Metallurgical analysis (macroetch, microetch, grain size, sulphur prints)
- Nondestructive testing (ultrasonic, magnetic particle, liquid penetrant)
- Positive Material Identification (PMI)

Experienced sales persons are available to assist you with design, pricing and delivery information.



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MAIN PLANT, DOMESTIC AND INTERNATIONAL SALES:

2525 DESOTO ST.
HOUSTON, TX 77091
1-800-231-2701
1-713-688-9705
FAX: 1-713-688-7954
FAX: 1-713-688-7518
FAX: 1-713-688-1846

WEB PAGE:

<http://www.fvc.cc>

E-MAIL:

sales@fvc.cc

MAILING ADDRESS:

P. O. BOX 38421
HOUSTON, TX 77238-8421

WESTERN CANADIAN SALES & DISTRIBUTION

7410A-5 STREET S.E.
CALGARY, ALBERTA T2H-2L9
1-800-382-3490
1-403-255-9011
FAX: 1-403-255-7239

E-MAIL:

wcanada@fvc.cc



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