

FIBERBOND® Piping Specification - Series 20HV Column Pipe

Rev: A

Rating: ANSI B16.5 150# FF - FIBERBOND® FRP/GRP
 Service: "Column" piping (for submersible pumps or vertical line-shaft driven pumps)

Pressure: 200psig (13.8barg)
 Temp: Up to 150F (65c)

1"	1.5"	2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"
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Pipe	FIBERBOND® Series 20HV, plain ends, ASTM D2310 / D2996 RTRP-12ET1; 200psig pressure rating; all pipes have plain ends suitable for composite butt welding. ASTM F1173 / ISO15840 Type I, Resin 3, Class B, Rating Method 1.													
Min. Thk	0.24"	0.24"	0.24"	0.24"	0.24"	0.30"	0.36"	0.42"	0.48"	0.59"	0.65"	0.71"	0.83"	0.95"
Nom. Thk	0.25"	0.25"	0.25"	0.25"	0.25"	0.31"	0.38"	0.44"	0.50"	0.63"	0.69"	0.75"	0.88"	1.00"
Nom. I.D.	1.00"	1.50"	2.00"	3.00"	4.00"	6.00"	8.00"	10.00"	12.00"	14.25"	16.25"	18.25"	20.25"	24.25"
Nom. O.D.	1.50"	2.00"	2.50"	3.50"	4.50"	6.62"	8.75"	10.88"	13.00"	15.13"	17.25"	19.38"	21.50"	25.75"
Flanges	FIBERBOND® Series 20HV, long welding neck, ANSI B16.5 150# drilling, flange thicknesses differ from 150#; ASTM D5421 CM-B4I; ASTM D4024 RTR 121D													
Nom. Thk	0.50"	0.50"	0.69"	0.81"	1.00"	1.19"	1.38"	1.63"	1.88"	1.94"	2.13"	2.19"	2.31"	2.56"
Neck Lg	6"	6"	6"	6"	6"	8"	8"	10"	10"	14"	14"	15"	16"	20"
Torque	32ft-lbs	33ft-lbs	65ft-lbs	67ft-lbs	35ft-lbs	63ft-lbs	67ft-lbs	73ft-lbs	78ft-lbs	109ft-lbs	86ft-lbs	121ft-lbs	123ft-lbs	147ft-lbs
Elbows	Not Applicable for Column Pipe applications. See 20HV.													
Tees	Not Applicable for Column Pipe applications. See 20HV.													
Couplings	Couplings are not required in FIBERBOND® piping systems.													
Reducing Branches	Not Applicable for Column Pipe applications. See 20HV.													
Reducers	Not Applicable for Column Pipe applications. See 20HV.													
Threaded Branches	Not Applicable for Column Pipe applications. See 20HV.													
Laterals	Not Applicable for Column Pipe applications. See 20HV.													
Other Special Fittings	Not Applicable for Column Pipe applications. See 20HV.													
Valves	Per customer specifications.													
Unions	Unions are not available.													
Plugs	Not Applicable for Column Pipe applications. See 20HV.													

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Bolting	Per customer specifications. Either heavy hex or hex nuts may be used. SAE "Narrow" series washers must be used with FIBERBOND® flanges. USS washers will not fit.
Gaskets	1/8" thick full-face rubber gaskets, such as "SBR" red rubber or "CR" neoprene, are suitable for sizes up to 2" diameter. Garlock "Stress Saver" or CTG "ET-Energizer" gaskets are suitable for all sizes. Other gaskets may be suitable.
Notes	<ol style="list-style-type: none"> 1. Larger sizes are available (30", 36", 42", 48", and 60"; other custom sizes may be available). 2. All components have an external corrosion barrier pigmented "blue". 3. FIBERBOND® flanges can be bolted to raised-face flanges, however, care should be taken when torquing these flanges. 4. A "filler" ring, made out of teflon or other suitable material, may be used to "shim" the raised-face flange. 5. Lower torque values may be needed for bolting to raised-face surfaces; higher values may be needed for flat-face surfaces.