B16 Case 20
Use of A182 Gr. F92, A335 Gr. P92, and A369 Gr. FP92 to a maximum use temperature of 1200F (649C)

Inquiry: Note (1) of Table 2-1.18 and 2-1.18C of ASME B16.34-2020 restricts applications above 1150F (620C) to tubing with a maximum outside diameter of 3-1/2” (88.9mm). Is it permissible to use all forms, including tubing, of A182 Gr. F92, A335 Gr. P92, and A369 Gr. FP92, regardless of outside diameter, to a maximum use temperature of 1200F (649C) for welding-end valves in accordance with BPVC Case 2179-10?

Reply: In the opinion of the committee, yes, provided the following requirements are met:

(a) Per BPVC Case 2179-10, Table 2M (Note 2), the maximum use temperature for Table 2-1.18 in B16.34-2020 is 649C and the value of 650C is provided for interpolation only.
(b) SA-369, FP92 material shall not exceed Brinell Hardness of 250 HBW / 265 HV (25 HRC).
(c) All other requirements of ASME B16.34 are met.
(d) The name plate and Material Test Report (MTR) shall reference this B16 Case number.