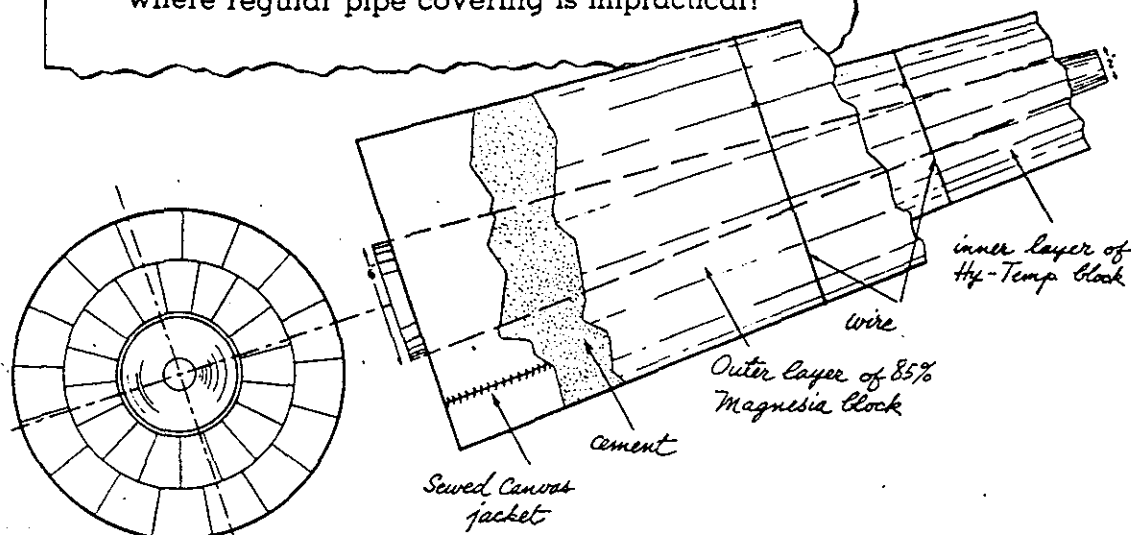


WE HAVE BEEN ASKED:

PLAINTIFF'S
EXHIBIT
ACS-102

"How would you insulate a tapered reducer where regular pipe covering is impractical?"



A power engineer wrote to us recently and outlined this problem: "We plan to insulate a 6" x 2" x 30" tapered reducer which carries steam at 350 lbs. pressure (725° F.) between a pressure reducing valve on a 2" superheated steam line (1000° F.) and a de-superheater. What insulating materials do you recommend and how should they be applied?"

To answer this question, we sent the drawing above and the following recommendation: To minimize heat loss on the 2" superheated steam line, regular pipe coverings of Hy-Temp and 85% Magnesia should be used. These are applied in two 2" layers according to standard specifications for this 1000° F. temperature. On the tapered reducer, the same insulation thickness is used. Here, however, blocks of insulation are applied instead of preformed pipe covering. These must be cut and carefully fitted around the conical shape, then wired securely in place. The layer of Hy-Temp is applied first.

This reduces the temperature on its outer surface to a point within the 600° F. temperature limit of the 85% Magnesia, which is then applied to further cut down heat loss. As is the case with the layers of pipe covering, inner and outer joints should be staggered to prevent through joints that result in heat leakage. Joints should be filled in and smoothed with cement. A sewed canvas jacket completes the job.

The next time you have any insulation work to be done, you'll find that Armstrong's thorough knowledge of insulation and its uses can help you. Our Contracting Service can handle the entire job for you—furnish fine-quality materials and the skilled workmen to apply them properly. For further information, just contact your nearest Armstrong office.



SEND US YOUR QUESTION. If you have any questions on insulating materials or their use in high- or low-temperature installations, please write us. We'll see that you get a prompt, practical answer. Address your letter or post card to Armstrong Cork Company, 7001 Maple Street, Lancaster, Pennsylvania.

ARMSTRONG'S INDUSTRIAL INSULATIONS

MATERIALS - INSTALLATION

FOR ALL TEMPERATURES FROM 300° F. BELOW ZERO TO 2800° F.

