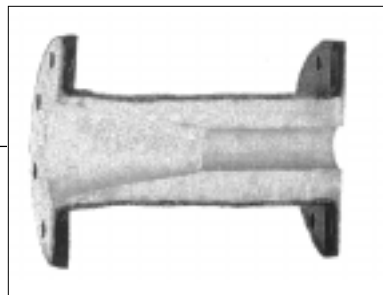
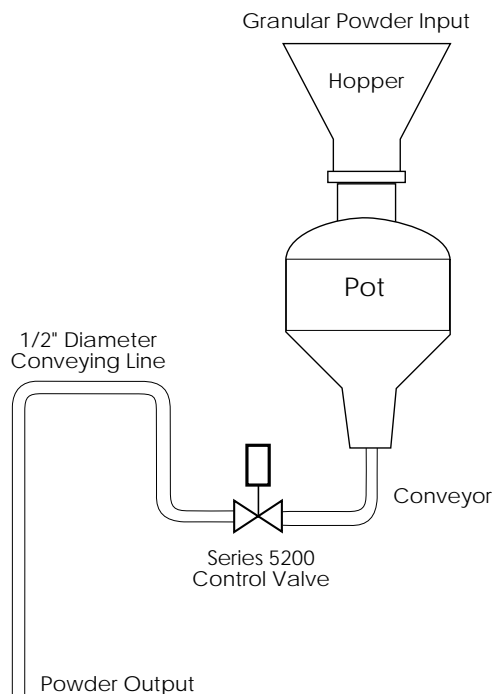


Application Data

Process Industry ♦ Granular Powder ♦ Control Valves



SERIES 5200 CONTROL VALVE USED IN PROCESSING GRANULAR POWDER



This application is for a control valve to pass 80 mesh granular powder material at 50#/ft² density, with 25 standard cubic feet per minute of conveying air at about 60-100 psig.

The air supply into the conveyor pressure builds from 0 psig to approximately 100 psig maximum. The Pinch Valve is to open when pressure in the pot equals the pressure in the regenerator. The control valve is to stay open until the pressure drops in the conveying line. When conveyor air pressure input again equals regenerator pressure, the pinch valve will close.

The Red Valve Series 5200 (1-1/2") Control Valve with (3/4") Cone Sleeve, plus an I/P transducer with limit switches, was selected for this particular application.

The Cone Sleeve was selected because of the low Cv and rangeability required.

Cv For Cone Sleeve

Valve Size	Port Size	Valve Opening – Percent of Total Travel									
		10	20	30	40	50	60	70	80	90	100
1-1/2"	3/4"	1	5	8	12	15	16	18	20	21	22

