

# STRAIGHT THRU PERFORMANCE DATA

## OPERATING LIMITS

1. The table below shows the maximum permissible working pressure, within a temperature range of -50°F and +120°F, for the entire size range of Saunders Straight Thru Diaphragm Valves.
2. For operating temperatures above 120°F, the permissible working pressure decreases as shown by the chart on the facing page. To find the maximum working pressure at the higher temperatures, select the pressure from the table below for the desired size and valve material. Then, find the corresponding

pressure line on the chart and plot that line until it intersects with the anticipated temperature. From the point of intersection, proceed horizontally to the edge of the chart and read the allowable working pressure at the anticipated temperature.

3. Refer to the diaphragm temperature limitation bar graphs to determine if the anticipated temperature is within the recommended operating range of the desired diaphragm and body material.

**VALVE MAXIMUM WORKING PRESSURE, psi**  
(at temperatures up to 120°F)

Body Material	Valve Size/Maximum Pressure										
	½"	1"	1½"	2"	3"	4"	6"	8"	10"	12"	14"
All Metallic	150	150	150	150	150	150	75	75	75	75	40
Glass and Plastic Lined	150	150	150	150	150	150	75	75	75	75	40
Rubber Lined	—	150	150	150	150	150	75	75	75	75	40
Plastic Lined	—	150	150	150	150	150	75	75	75	75	40

