Viscosity Correction Chart

To find the appropriate pump for products with viscosities > 10,000 SSU, multiply the viscosity factor (Figure 1) by the required flow.

Next, locate the corrected GPM duty point on the published performance curve to determine the volume and air pressure needed to deliver the required flow.

Example:

- Flow: 15 GPM
- Discharge head: 50 PSI
- Viscosity: 35,000 SSU

The correction number for 35,000 SSU is 2.0.

⇨ Multiply 2.0 x 15 GPM = 30
⇨ Locate 30 GPM at 50 PSI head on the pump performance curve to determine required air pressure and SCFM.

Notes:

1. At high viscosities, suction conditions are critical and must be adequate.
2. This chart is provided as an approximate guide. Pump performance may vary dependent on flow characteristics of material being pumped.

General Conversion Factors:

cSt = cP/SG
1 cP = 1 mPa.s
SSU = cP X 4.55 (where cP > 50)

Correction Factor	Viscosity in SSU	Viscosity in CPS
6.0	115,000	25,185
5.7		
5.5	105,000	22,995
5.2		
5.0	95,000	20,805
4.7		
4.5	85,000	18,615
4.2		
4.0	75,000	16,425
3.7		
3.5	65,000	14,235
3.2		
3.0	55,000	12,045
2.7		
2.5	45,000	9,855
2.2		
2.0	35,000	7,500
1.5	20,000	4,250
1.2	10,000	2,150
1.0	32	1

Figure 1

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