



**Franklin Electric**

## **PUMP SELECTION – EXAMPLE 1**

### **Duty**

Capacity : 20 m<sup>3</sup>/hr  
 Viscosity : 100 CPS  
 Discharge : 7 Bar

### **Step 1**

Select pump model, using Viscosity Limitations Graph (Section D - Part 2 Page 2.3). Model R32.

### **Step 2**

Using Performance graph R32S, find point **A**, using Viscosity and Discharge Pressure.

### **Step 3**

The diagonal dotted line from **A**, gives pumps performance at any flow rate, at these viscosity and pressure conditions.

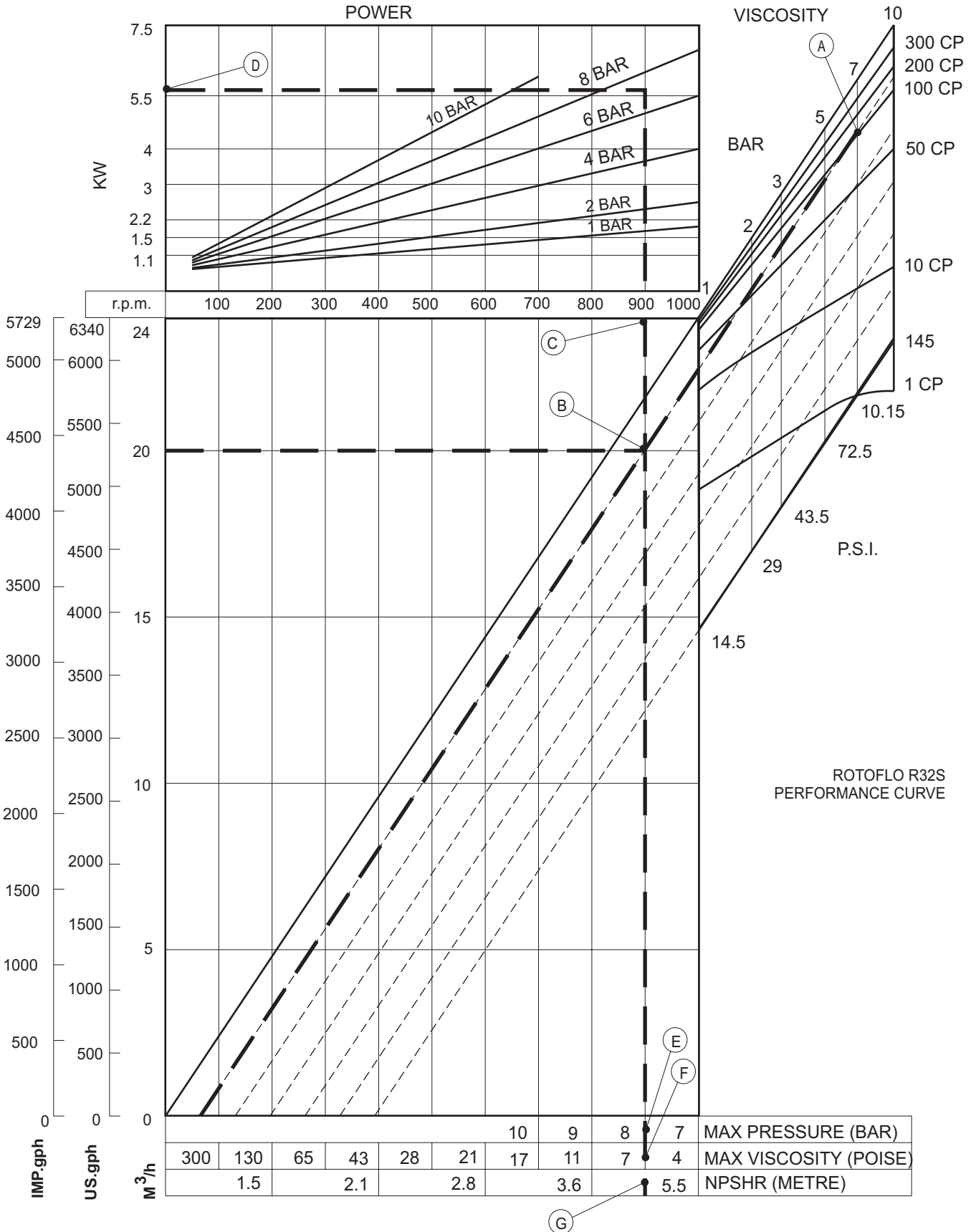
### **Step 4**

Using capacity of 20 m<sup>3</sup>/hr, find point **B**. From this point, by projecting vertically upwards and downwards, the following can be found:

<b>C</b>	Pump speed	:	900 RPM
<b>D</b>	Power required	:	5.6 kW
<b>E</b>	Maximum pressure	:	8 Bar
<b>F</b>	Maximum viscosity	:	7 Poise (700 CPS)
<b>G</b>	NPSH required	:	4.5 Metres



# PUMP SELECTION EXAMPLE No 1





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## **PUMP SELECTION – EXAMPLE 2**

### **Duty**

Capacity : 20 m<sup>3</sup>/hr  
Viscosity : 6 000 CPS  
Discharge : 7 Bar

### **Step 1**

Select pump model, using Viscosity Limitations Graph (Section D - Part 2 Page 2.3). Model R42.

### **Step 2**

Using Performance graph R42, find point **A**, using Viscosity and Discharge Pressure.

### **Step 3**

The diagonal dotted line from **A**, gives pumps performance at any flow rate, at these viscosity and pressure conditions.

### **Step 4**

Using capacity of 20 m<sup>3</sup>/hr, find point **B**. From this point, by projecting vertically upwards and downwards, the following can be found:

<b>C</b>	Pump speed	:	300 RPM
<b>D</b>	Power required	:	5 kW
<b>E</b>	Maximum pressure	:	10 Bar
<b>F</b>	Maximum viscosity	:	120 Poise (12 000 CPS)
<b>G</b>	NPSH required	:	1.9 Metres



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# PUMP SELECTION EXAMPLE No 2

