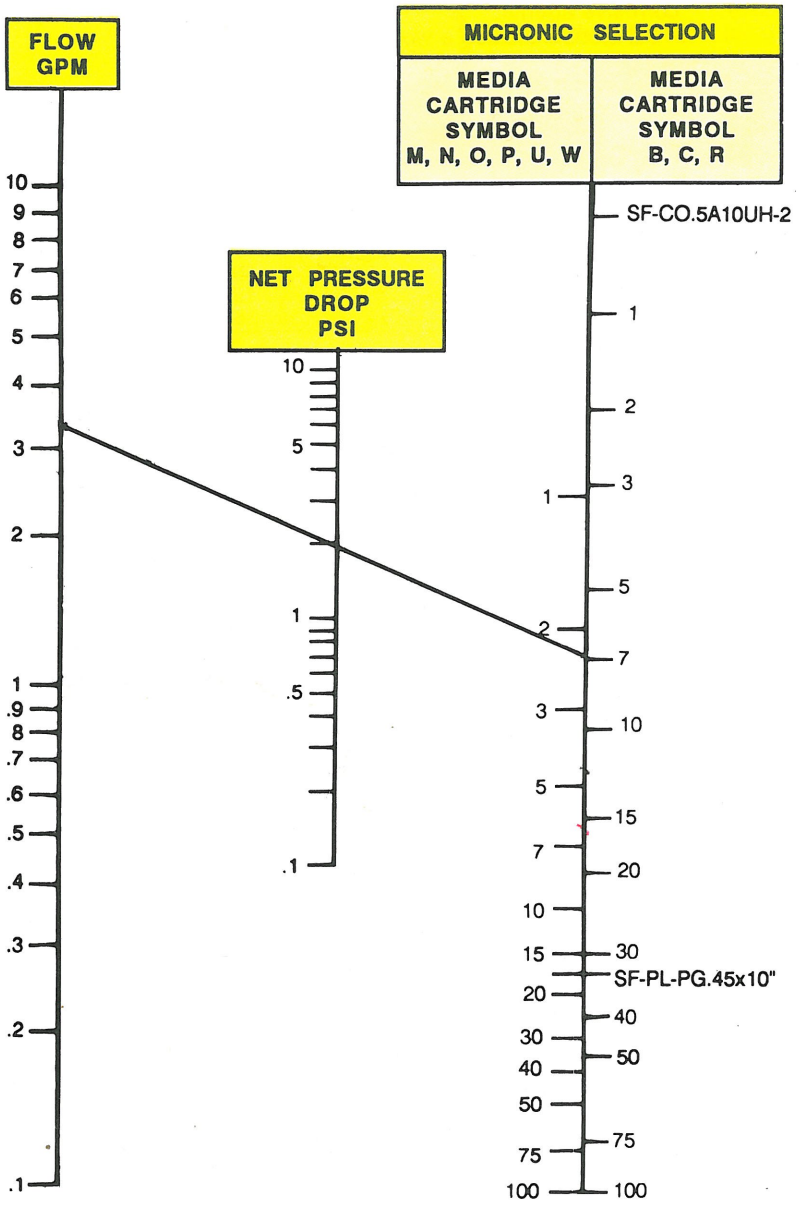
CARTRIDGE NOMOGRAPH

WATER



FILTER MEDIA	
B - Unbleached Cotton	P - Fibrillated Polypropylene (Purefybe©)
C - Bleached Cotton	R - Rayon
N - Nylon	U - Polypropylene (Wound & Polyspun©)
M - Modacrylic	W - Potable Water
O - Orlon®	

This chart is based on water at a viscosity of one centistoke (68°F.)

INSTRUCTIONS FOR USE OF NOMOGRAPHS TO DETERMINE NUMBER OF FILTER CARTRIDGES REQUIRED IN FILTRATION OF WATER AND NON-AQUEOUS LIQUIDS

1. WATER NOMOGRAPH

This is a direct reading nomograph. Simply draw a line through any two known factors.

For example:
Media desired - Cotton
Filtration *required* - 7 micron
Initial *allowable* drop - 2 PSI

To determine flow capacity for each filter cartridge: Extend a line through the 7-micron point on the right-hand MICRONIC SELECTION scale and the 2-PSI point on the NET PRESSURE LOSS scale and continue it to intersect the FLOW IN GPM scale. Read flow at the point of intersection . . . in this case, 3.2 GPM. *Illustrated on water nomograph*

Notes:

Flows in excess of 5 GPM per cartridge are not recommended - regardless of the viscosity of the filtrate.

The lower the flow rate, the greater the contaminate-holding capacity of the filter cartridge.

2. NON-AQUEOUS LIQUID NOMOGRAPH

Example 1: Illustrated on non-aqueous nomograph
Media desired - Orlon
Filtration *required* - 10 micron
Initial pressure drop - 3 psi
Viscosity - 20 CKS

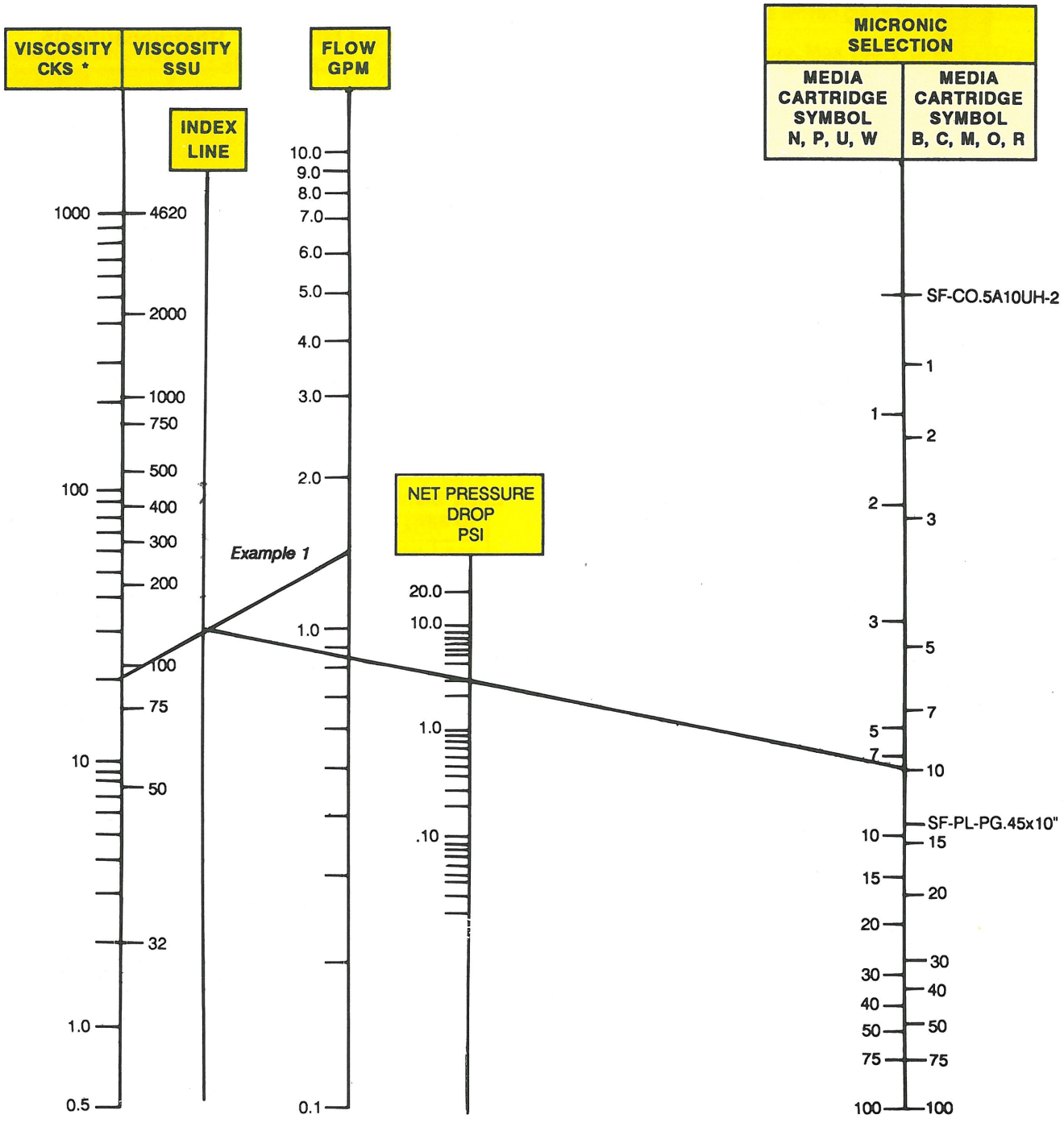
To determine flow capacity for each filter cartridge. Extend a line through the 10-micron point on the MICRONIC SELECTION scale and the 3-PSI point on the NET PRESSURE DROP scale, and continue it to intersect the INDEX LINE. Now draw a second line from the 20-CKS point on the VISCOSITY scale through the point of intersection on the INDEX LINE, and continue this line to intersect the FLOW GPM scale. Read flow at the point of intersection . . . in this case, 1.4 GPM.

Example 2:
Media desired - Cotton
Filtration *required* - 10 micron
Preferred flow per cartridge - 3.5 GPM
Viscosity - 50 SSU

To determine initial pressure drop: Extend a line from the 50-SSU point on the VISCOSITY scale to the 3.5-GPM point on the FLOW scale. From the point of intersection of this line with the INDEX LINE, draw a second line to the 10-micron point on the right-hand MICRONIC SELECTION scale. Read initial pressure drop from the point of intersection of the second line with NET PRESSURE DROP scale . . . in this case, 2.2 PSI.

CARTRIDGE NOMOGRAPH

NON-AQUEOUS LIQUID



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** Viscosity in centistokes (CKS) is the viscosity of a liquid in centipoises divided by that liquid's specific gravity.*