



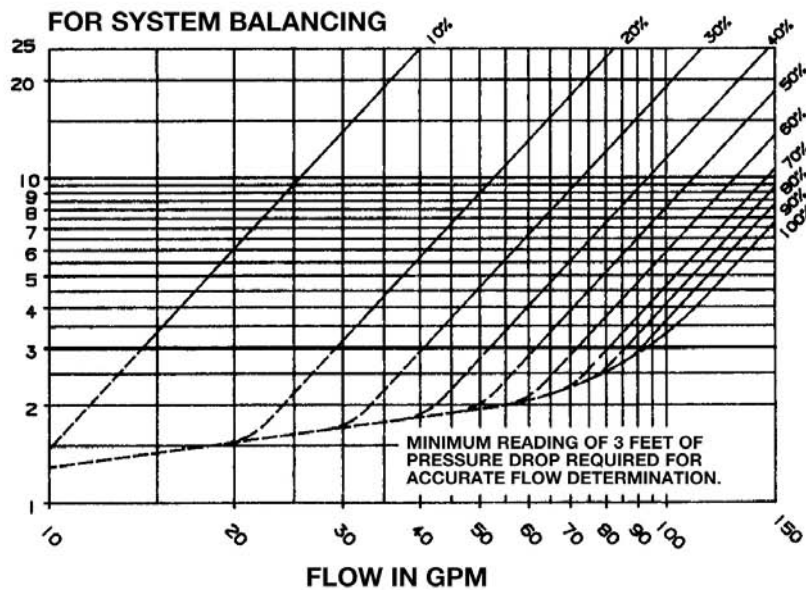
Bell & Gossett
a xylem brand

CURVES

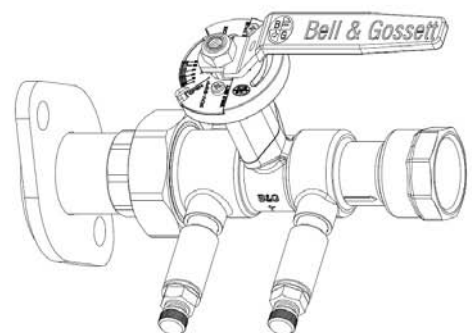
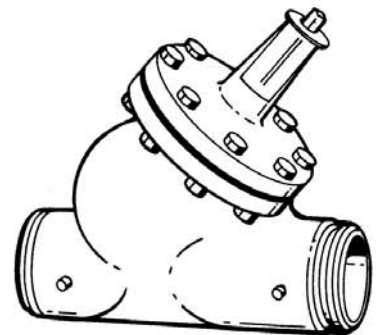
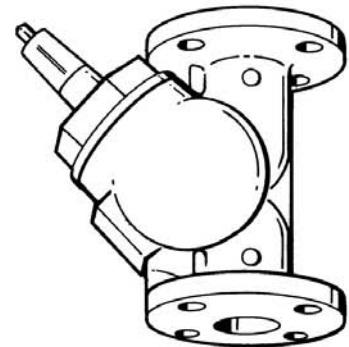
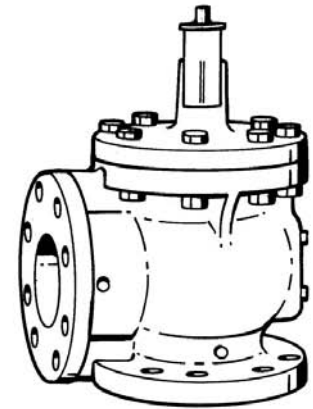
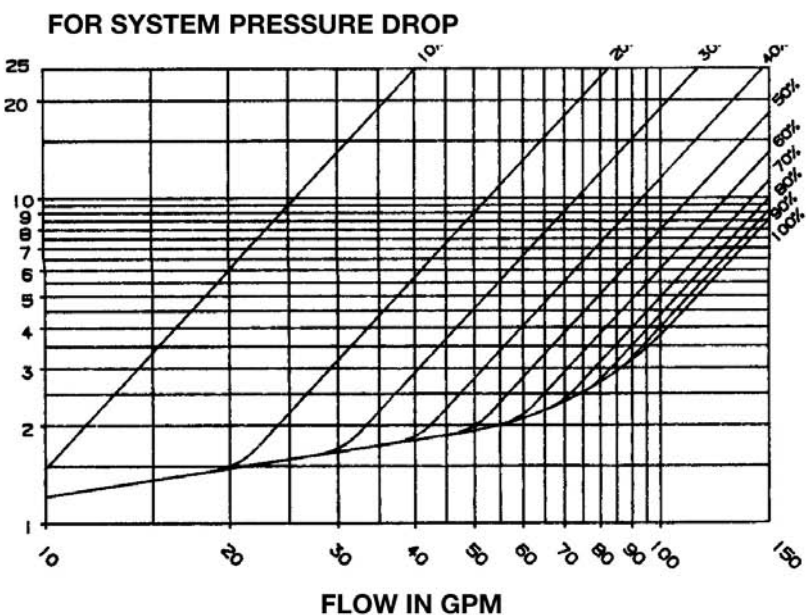
B-860B

Triple Duty[®] Valves

CENTRIFUGAL PUMP ACCESSORIES PERFORMANCE CUI



ΔP FEET OF WATER



TRIPLE DUTY® VALVES

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USEFUL PUMP FORMULAS

$$\begin{aligned}
 \text{Pressure (PSI)} &= \frac{\text{Head (Feet)} \times \text{Specific Gravity}}{2.31} \\
 \text{Head (Feet)} &= \frac{\text{Pressure (PSI)} \times 2.31}{\text{Specific Gravity}} \\
 \text{Vacuum (Inches of Mercury)} &= \frac{\text{Dynamic Suction Lift (Feet)} \times .883}{\text{Specific Gravity}} \\
 \text{Horsepower (Brake)} &= \frac{\text{GPM} \times \text{Head (Feet)} \times \text{Specific Gravity}}{3960 \times \text{Pump Efficiency}} \\
 \text{Horsepower (Water)} &= \frac{\text{GPM} \times \text{Head (Feet)} \times \text{Specific Gravity}}{3960} \\
 \text{Efficiency (Pump)} &= \frac{\text{Horsepower (Water)}}{\text{Horsepower (Brake)}} \times 100 \text{ Per Cent} \\
 \text{NPSH (Available)} &= \text{Positive Factors} - \text{Negative Factors}
 \end{aligned}$$

Affinity Laws: Effect of change of speed or impeller diameter on centrifugal pumps.

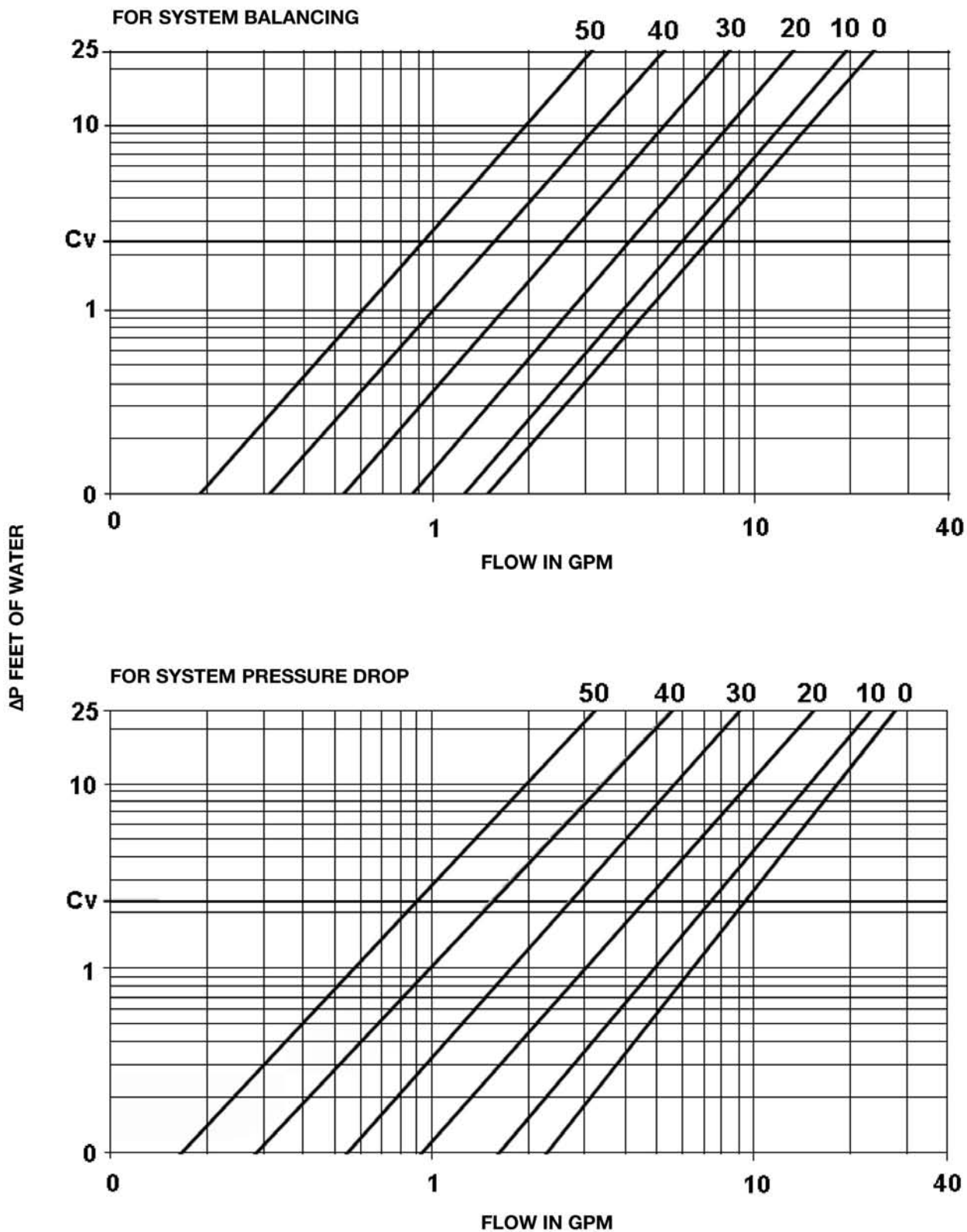
	GPM Capacity	Ft. Head	BHP
Impeller Diameter Change	$Q_2 = \frac{D_2}{D_1} Q_1$	$H_2 = \left(\frac{D_2}{D_1}\right)^2 H_1$	$P_2 = \left(\frac{D_2}{D_1}\right)^3 P_1$
Speed Change	$Q_2 = \frac{RPM_2}{RPM_1} Q_1$	$H_2 = \left(\frac{RPM_2}{RPM_1}\right)^2 H_1$	$P_2 = \left(\frac{RPM_2}{RPM_1}\right)^3 P_1$

Where Q = GPM, H = Head, P = BHP, D = Impeller Dia., RPM = Pump Speed

TRIPLE DUTY® VALVES

Triple Duty Valve® PERFORMANCE CHARACTERISTICS

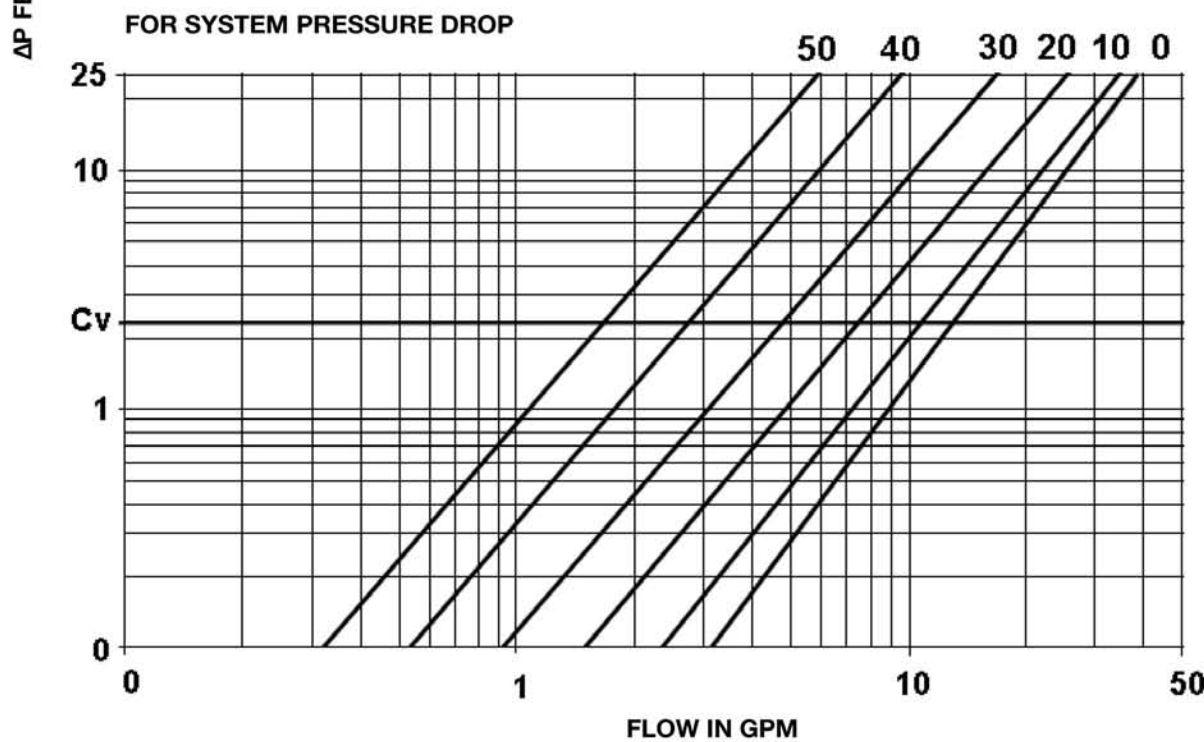
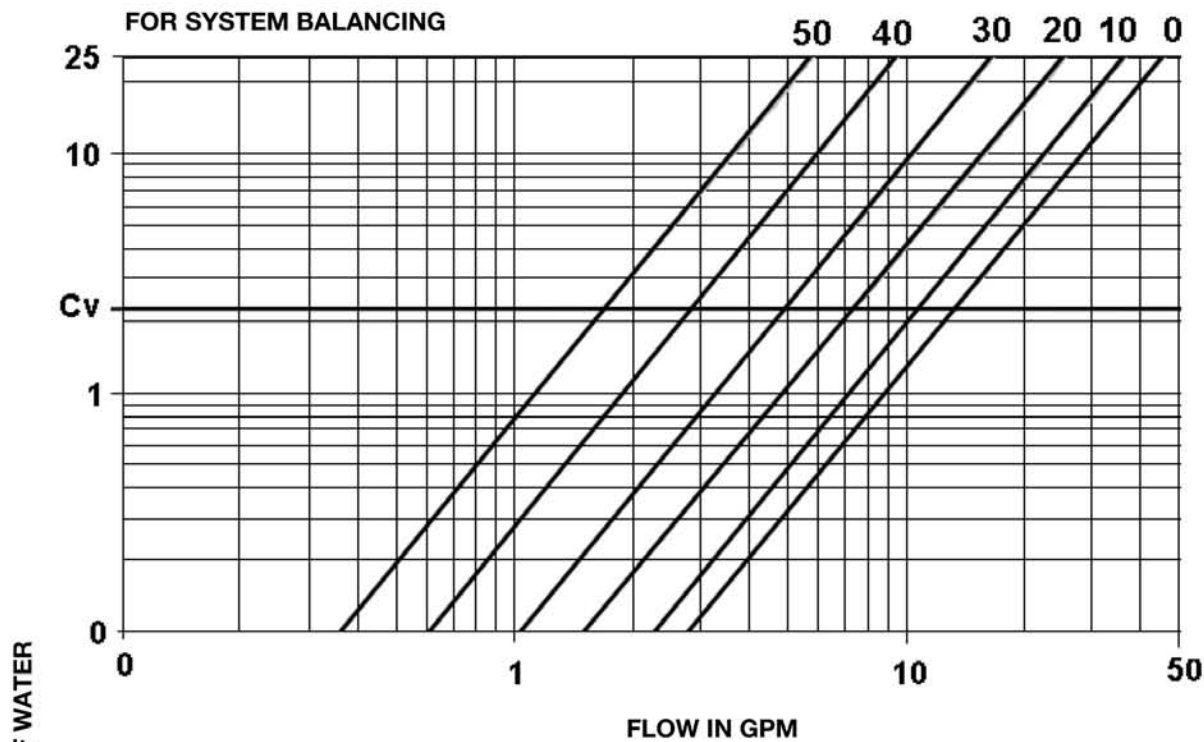
Part No. 132200 & 132208 Model No. 3DV-1NMF
Part No. 132201 & 132209 Model No. 3DV-1RFF



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Triple Duty Valve® PERFORMANCE CHARACTERISTICS

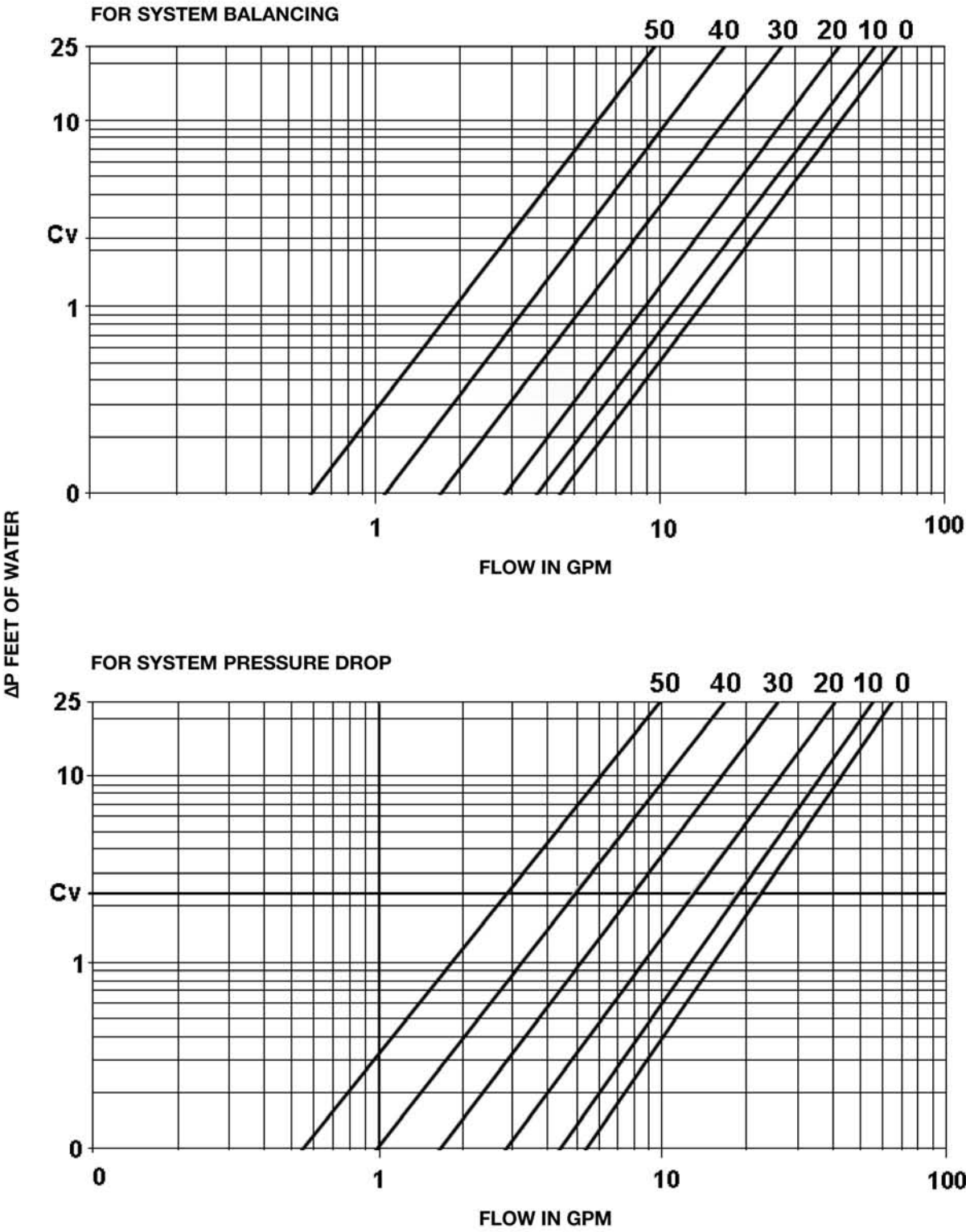
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Part No. 132203 & 122211 Model No. 3DV-1-1/4RFF



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Triple Duty Valve® PERFORMANCE CHARACTERISTICS

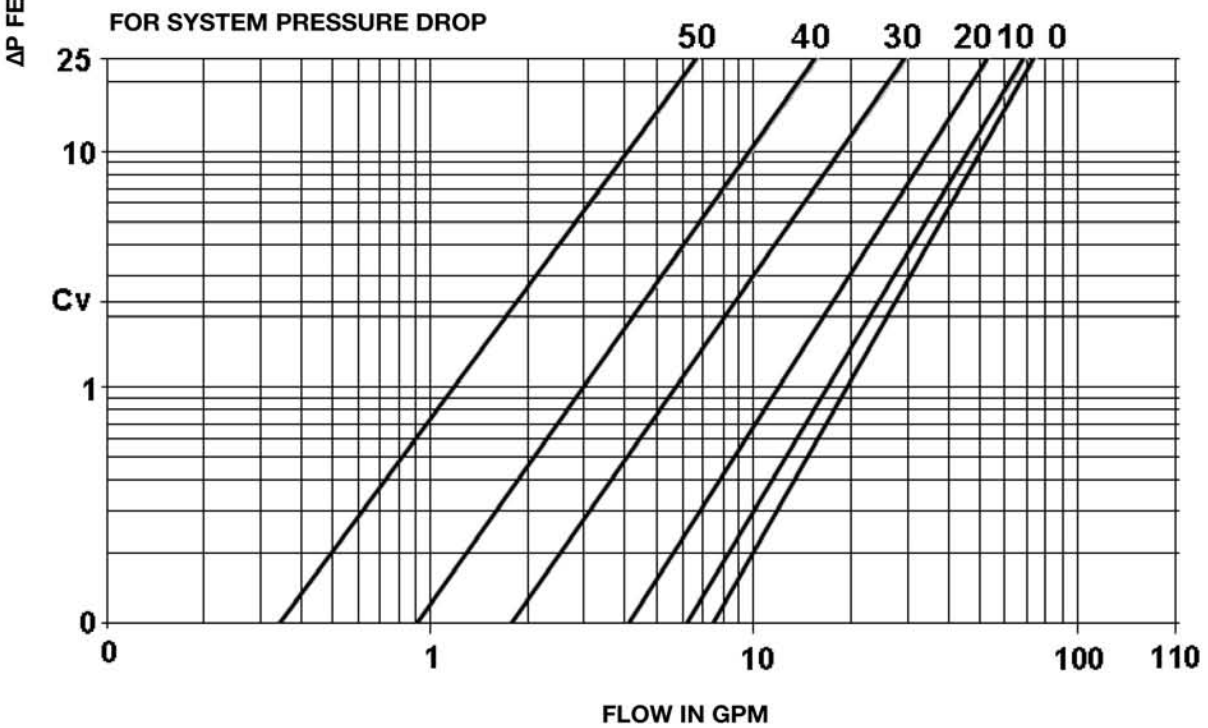
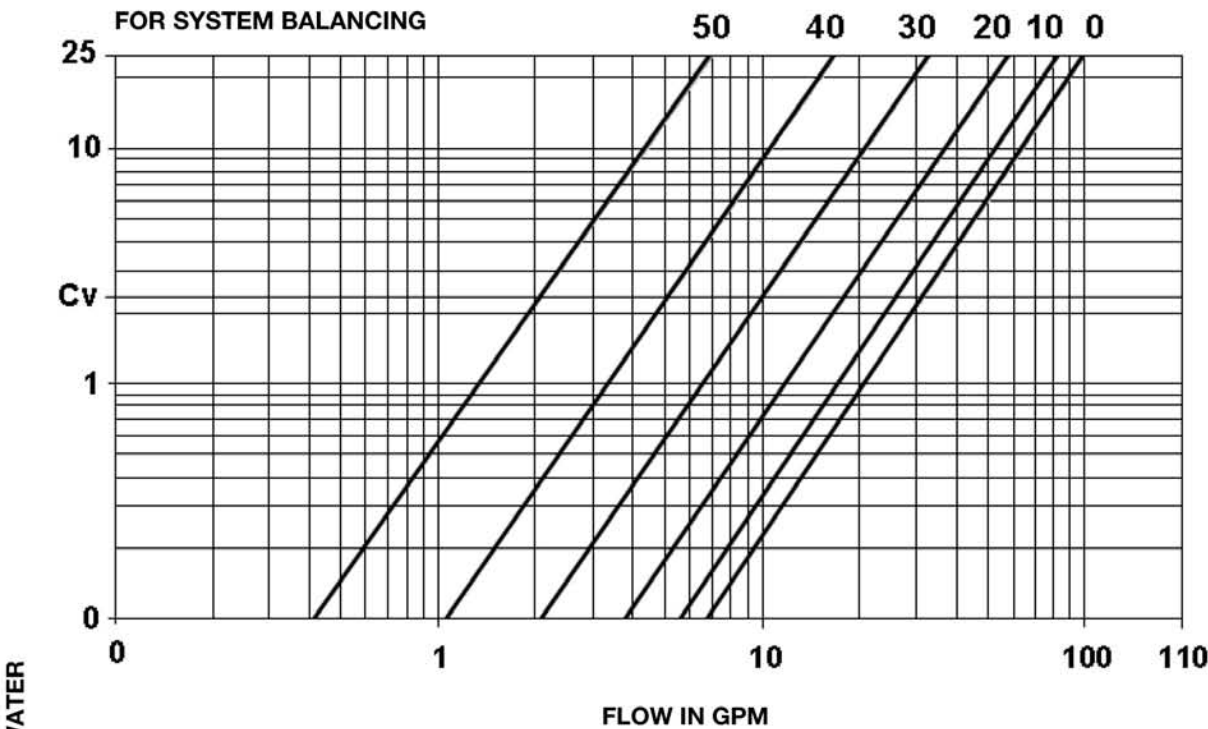
Part No. 132204 & 132212 Model No. 3DV-1-1/2NMF
Part No. 132205 & 132213 Model No. 3DV-1-1/2RFF



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Triple Duty Valve® PERFORMANCE CHARACTERISTICS

Part No. 132206 & 132214 Model No. 3DV-2NMF
Part No. 132207 & 132215 Model No. 3DV-2RFF



TRIPLE DUTY® VALVES

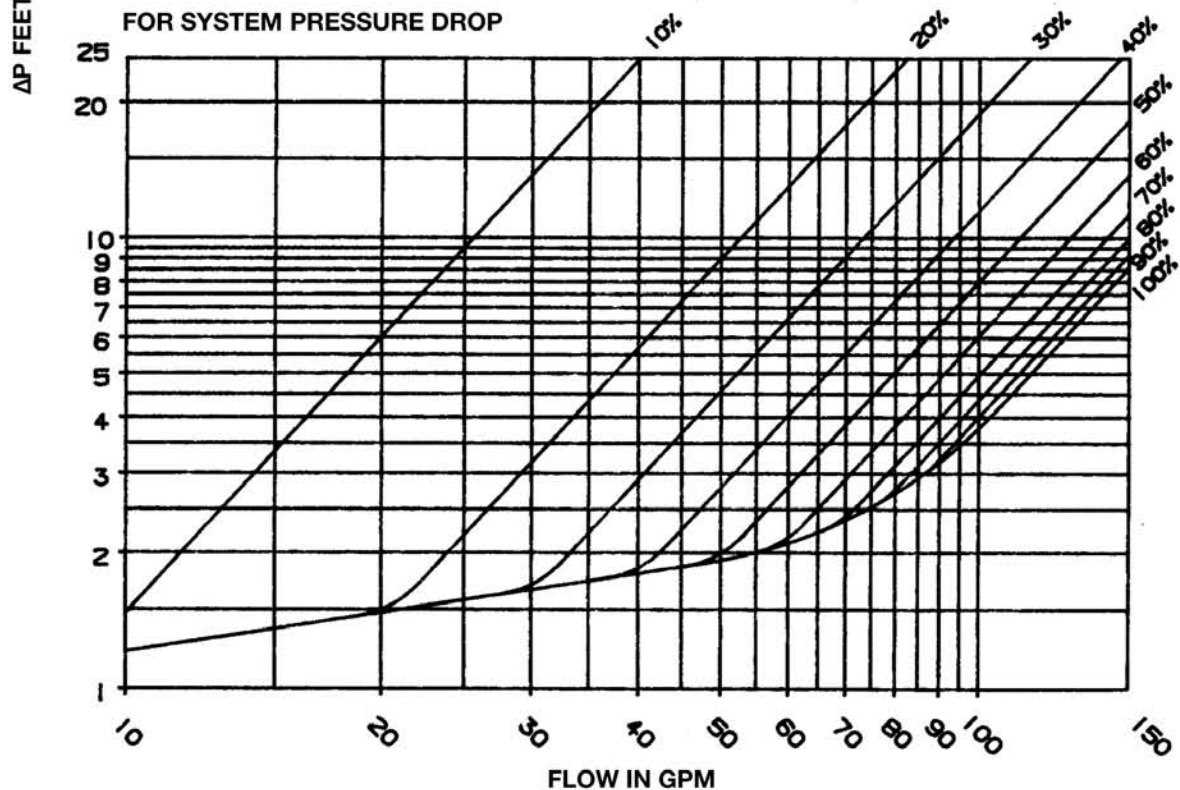
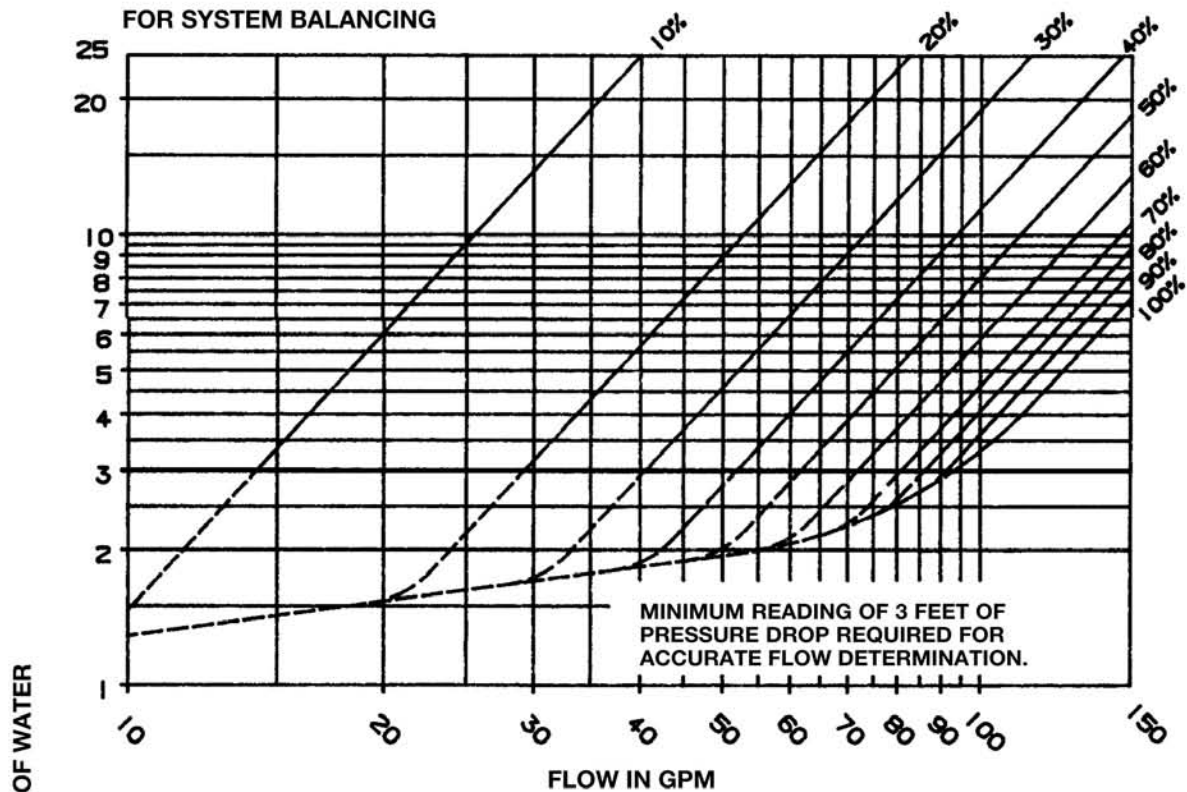
Triple Duty Valve® (Straight Pattern) PERFORMANCE CHARACTERISTICS

Part No. 132121

Model No. 3DS-2S

Part No. 132150

Model No. 3DS-2G



TRIPLE DUTY® VALVES

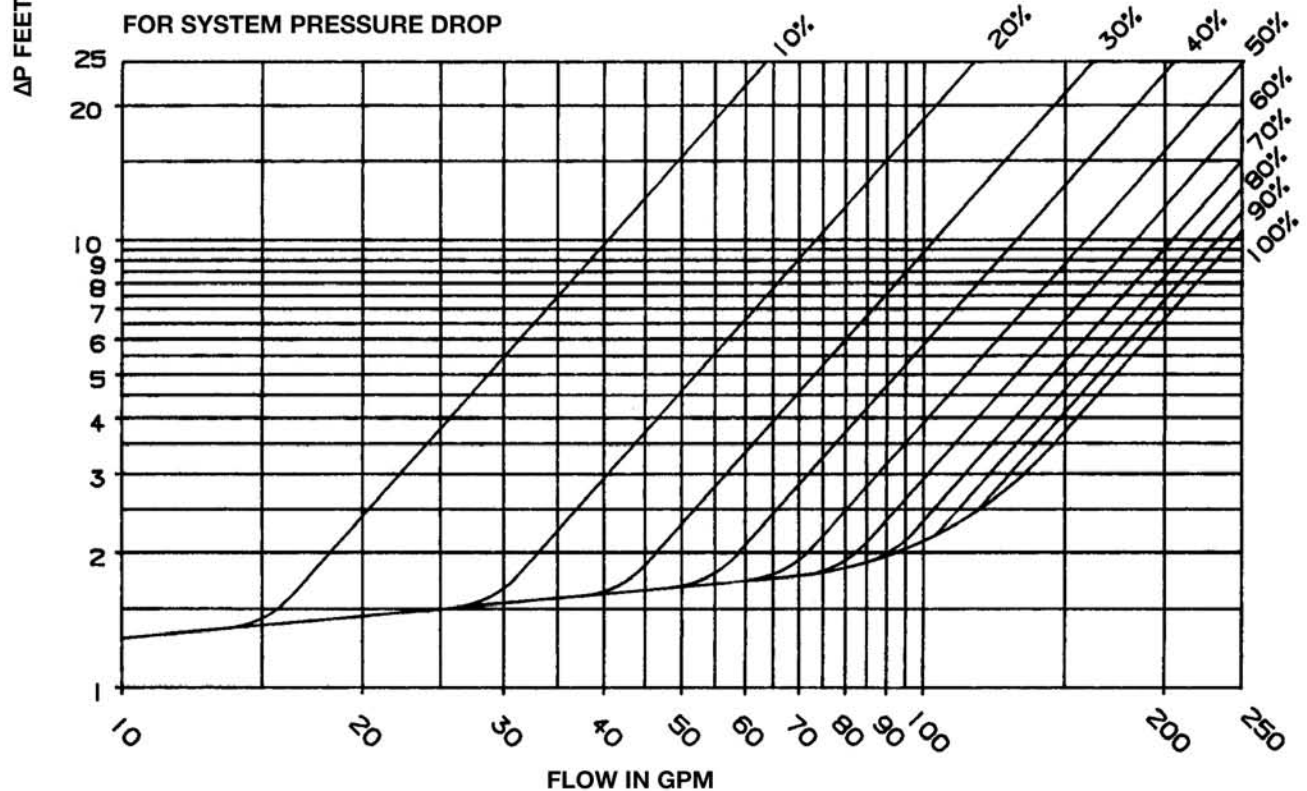
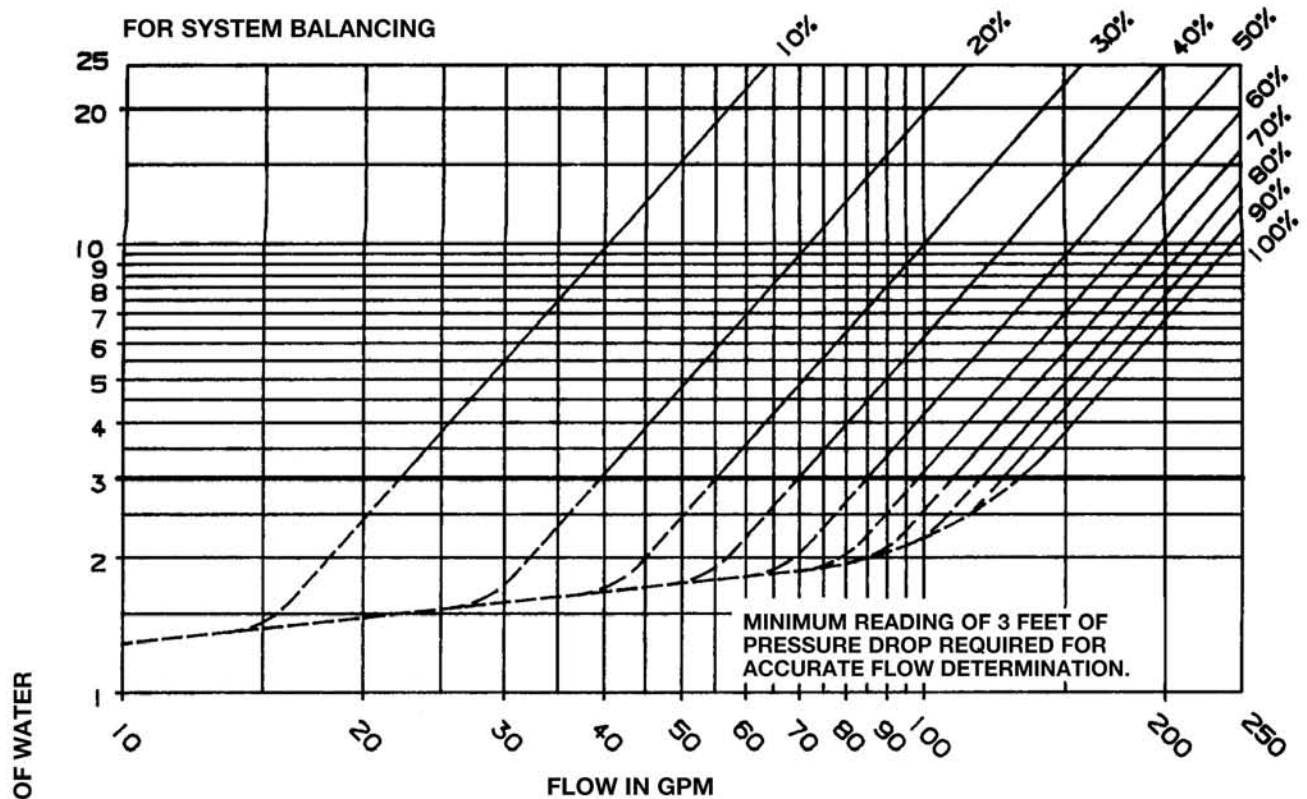
Triple Duty® Valve (Straight Pattern) PERFORMANCE CHARACTERISTICS

Part No. 132122

Model No. 3DS-2½S

Part No. 132151

Model No. 3DS-2½G

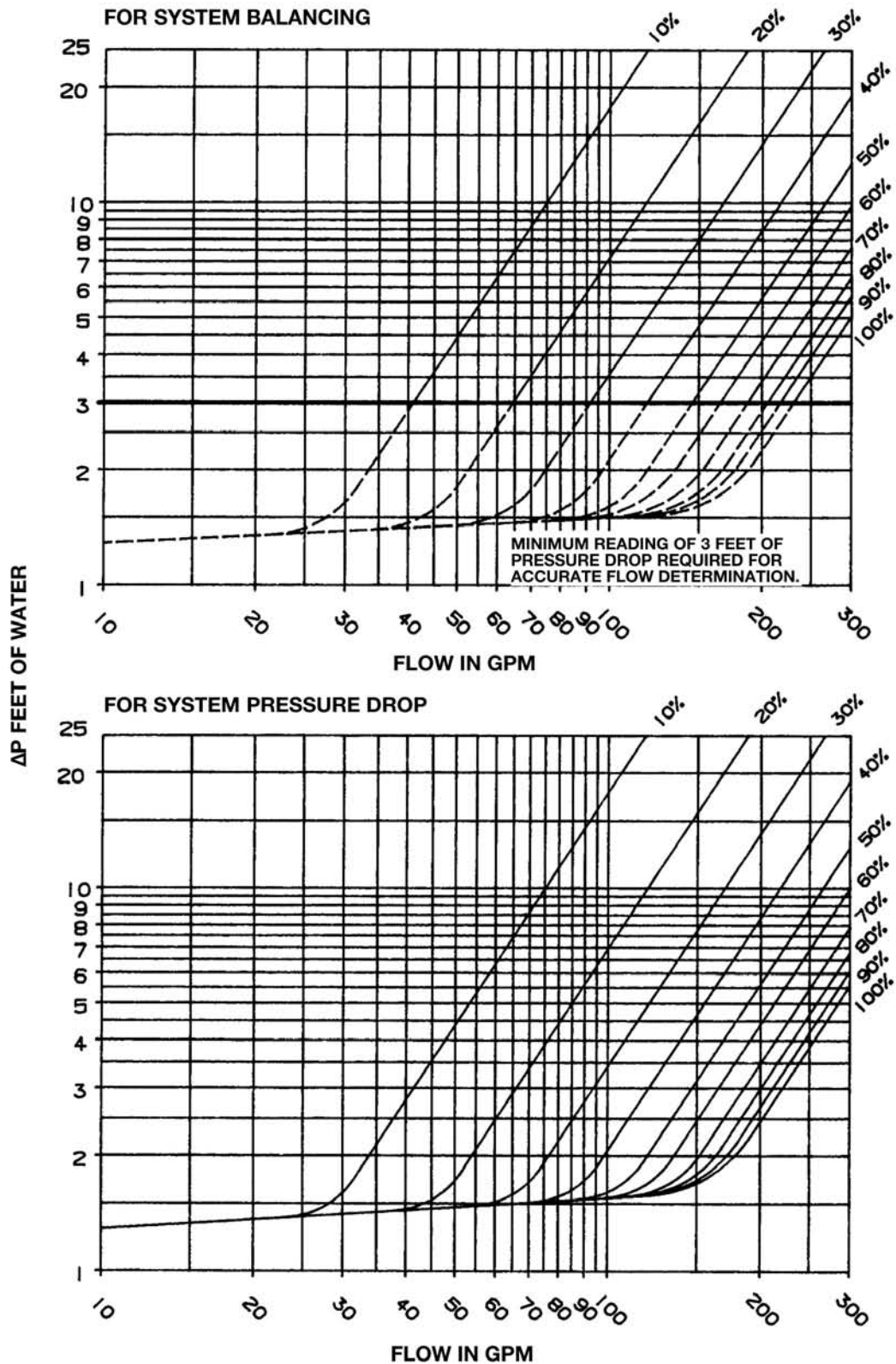


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Triple Duty® Valve (Straight Pattern) PERFORMANCE CHARACTERISTICS

Part No. 132123
Part No. 132152

Model No. 3DS-3S
Model No. 3DS-3G



TRIPLE DUTY® VALVES

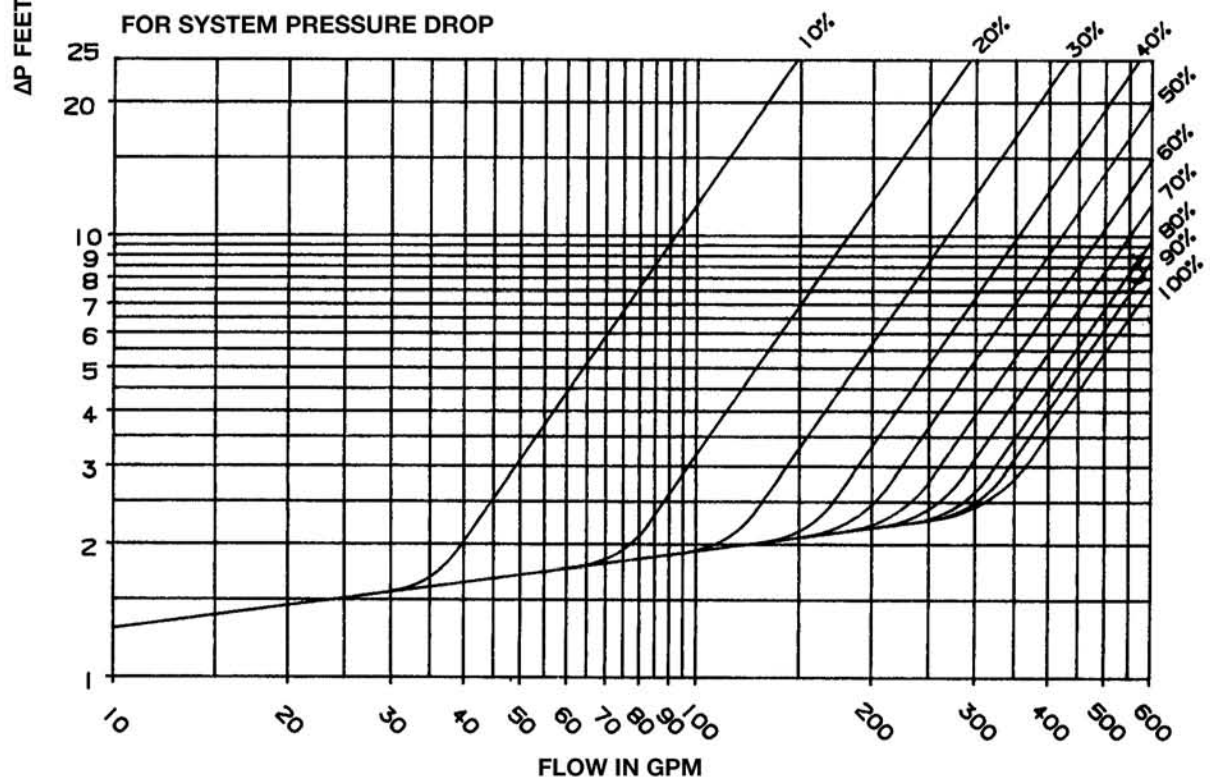
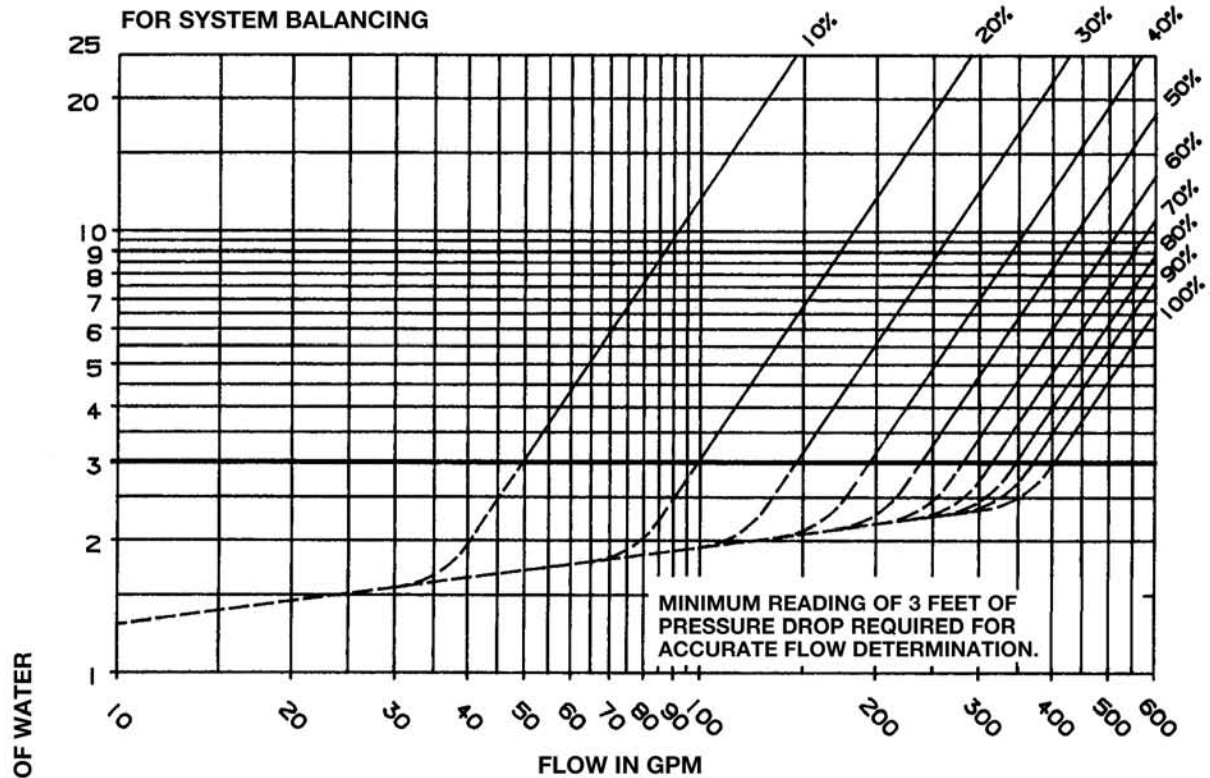
Triple Duty® Valve (Straight Pattern) PERFORMANCE CHARACTERISTICS

Part No. 132124

Model No. 3DS-4S

Part No. 132153

Model No. 3DS-4G



TRIPLE DUTY® VALVES

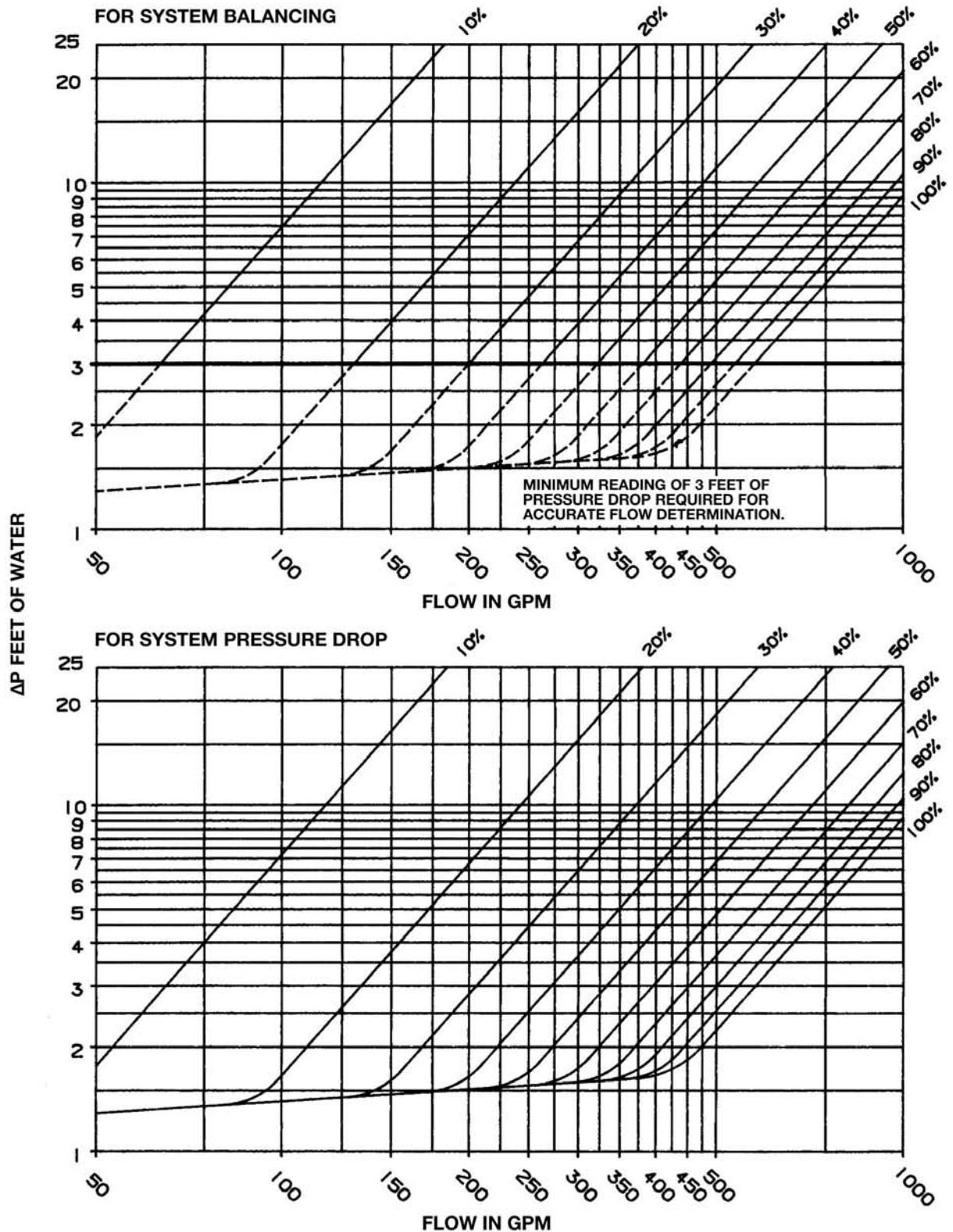
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Part No. 132125

Model No. 3DS-5S

Part No. 132154

Model No. 3DS-5G

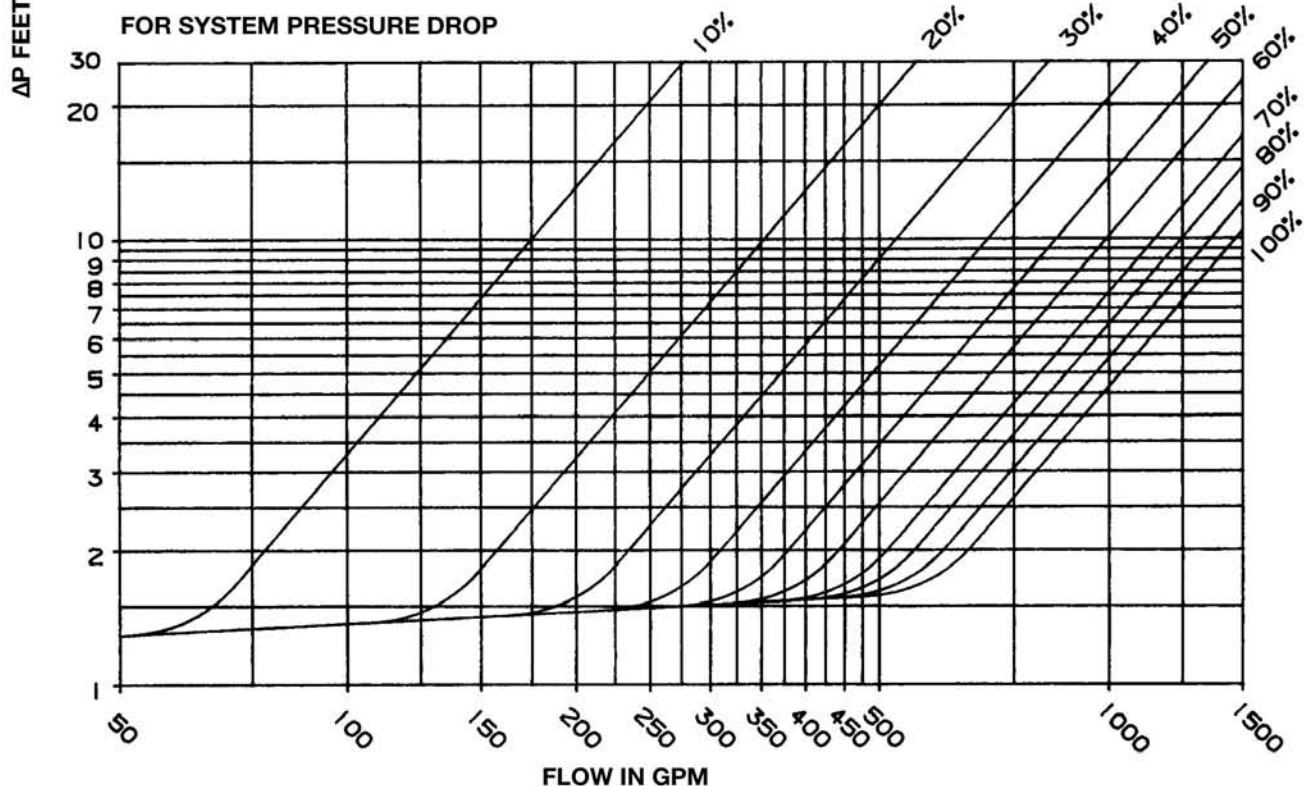
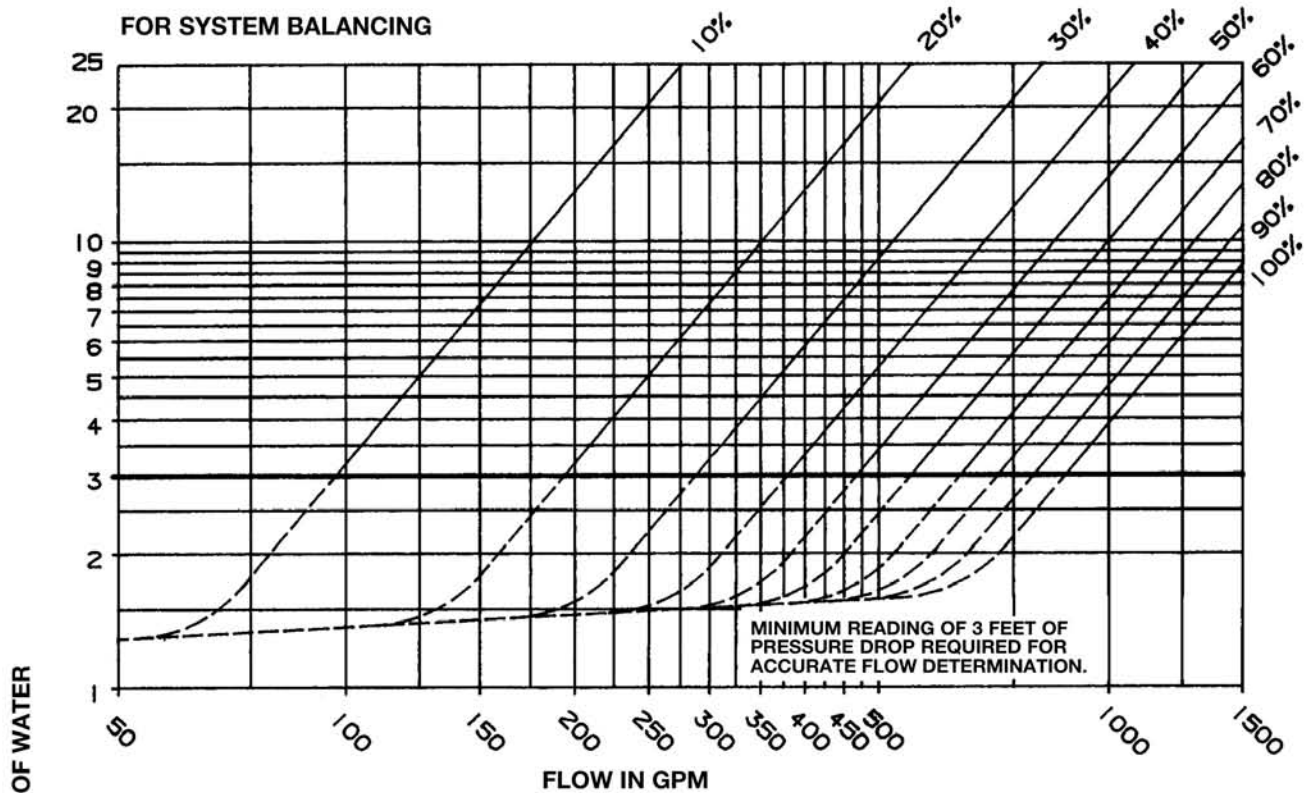


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Triple Duty® Valve (Straight Pattern) PERFORMANCE CHARACTERISTICS

Part No. 132126
Part No. 132155

Model No. 3DS-6S
Model No. 3DS-6G

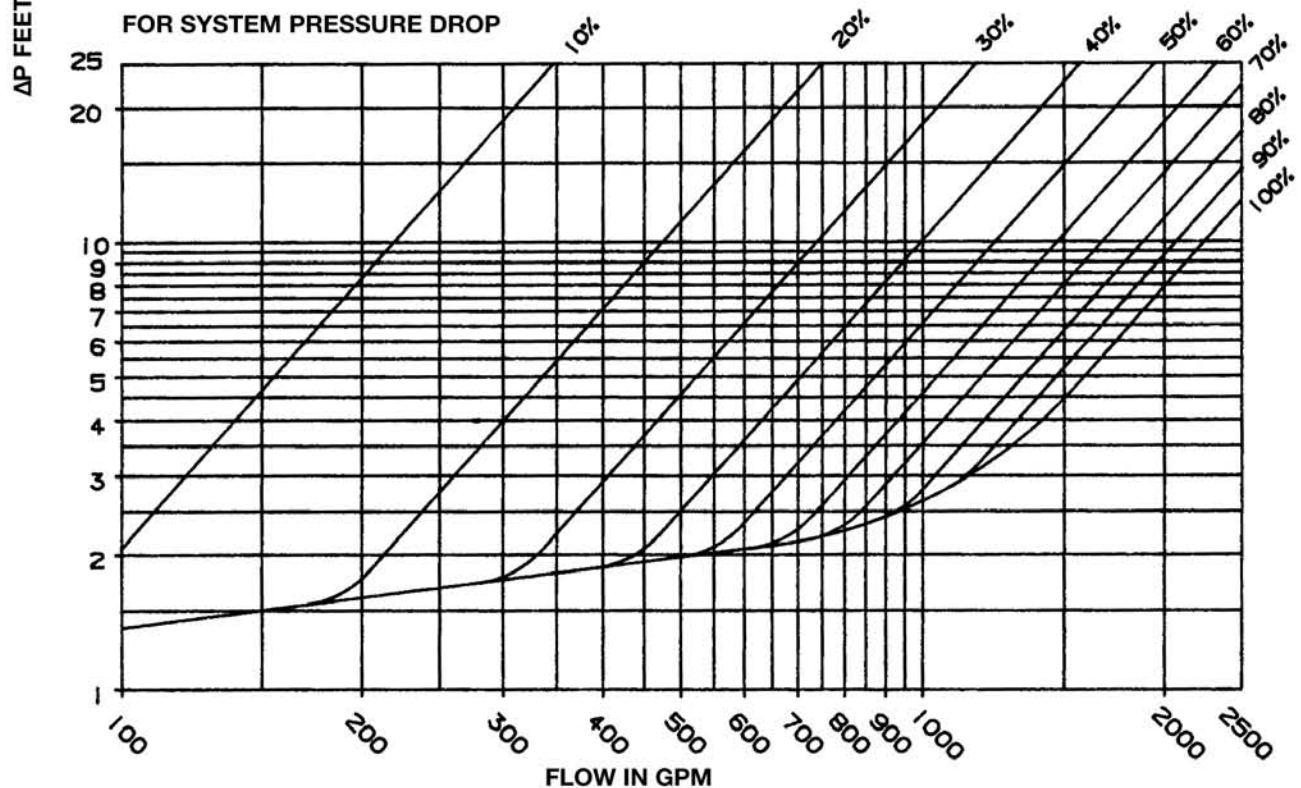
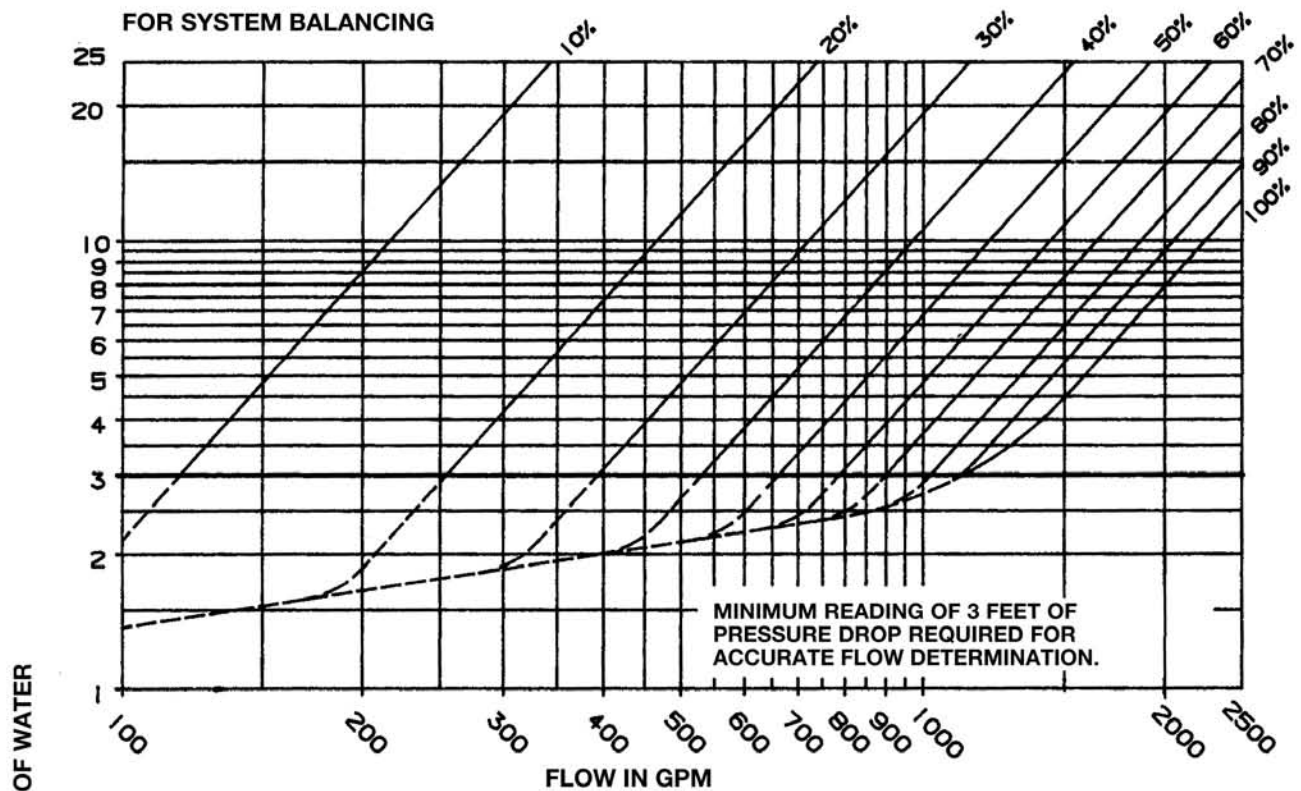


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Triple Duty® Valve (Straight Pattern) PERFORMANCE CHARACTERISTICS

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Part No. 132156

Model No. 3DS-8S
Model No. 3DS-8G

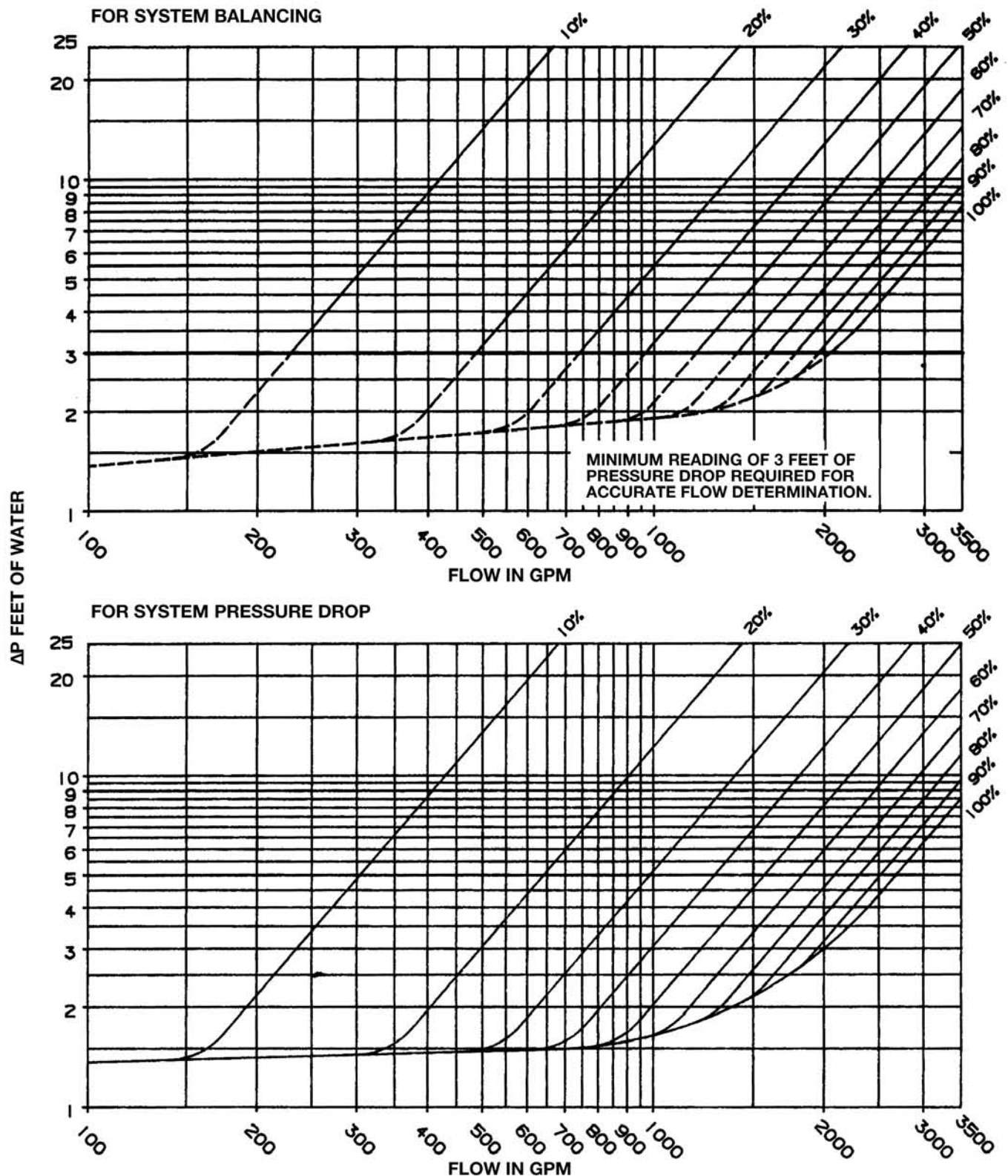


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Triple Duty® Valve (Straight Pattern) PERFORMANCE CHARACTERISTICS

Part No. 132128
Part No. 132157

Model No. 3DS-10S
Model No. 3DS-10G



TRIPLE DUTY® VALVES

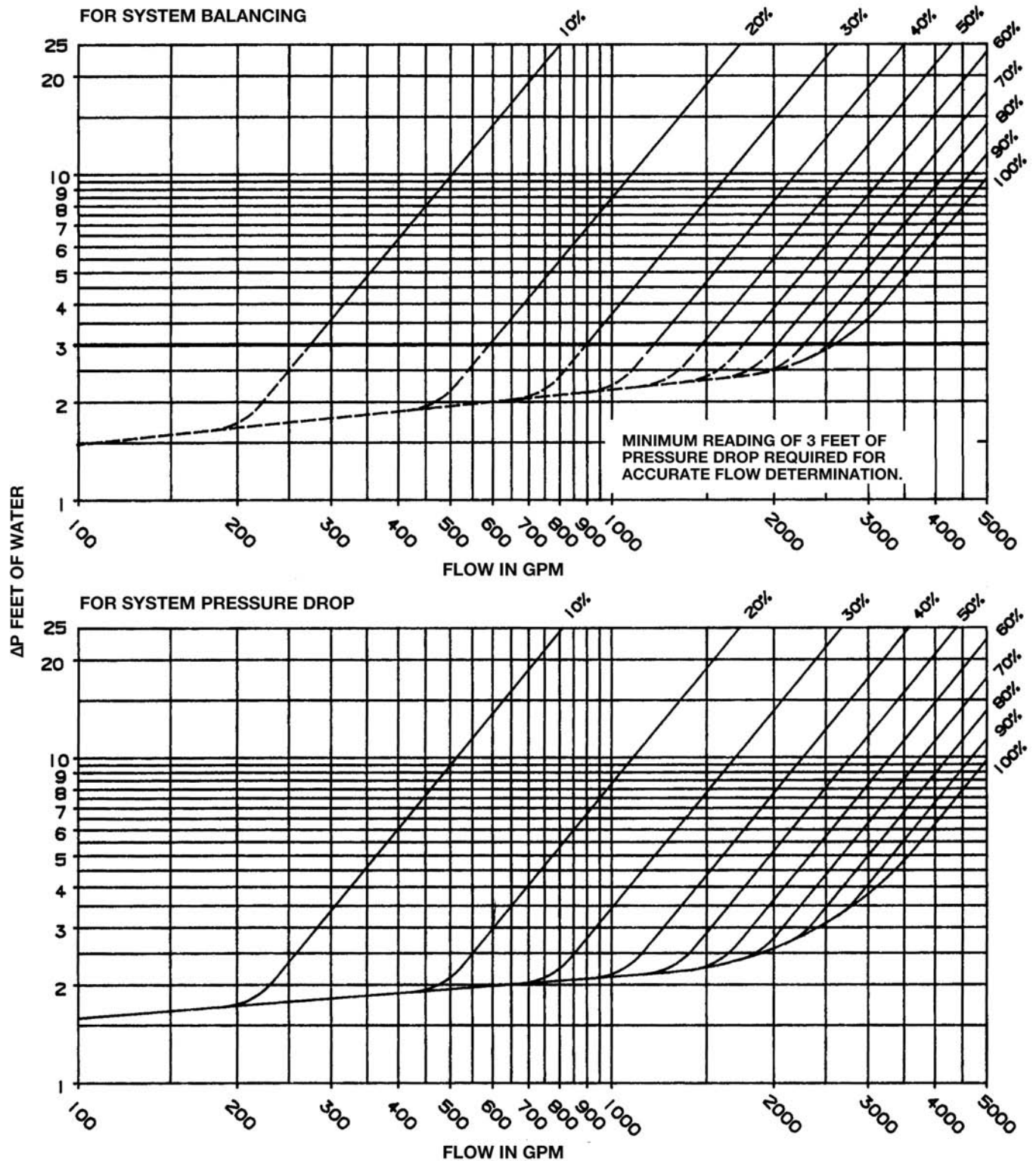
Triple Duty® Valve (Straight Pattern) PERFORMANCE CHARACTERISTICS

Part No. 132129

Model No. 3DS-12S

Part No. 132158

Model No. 3DS-12G

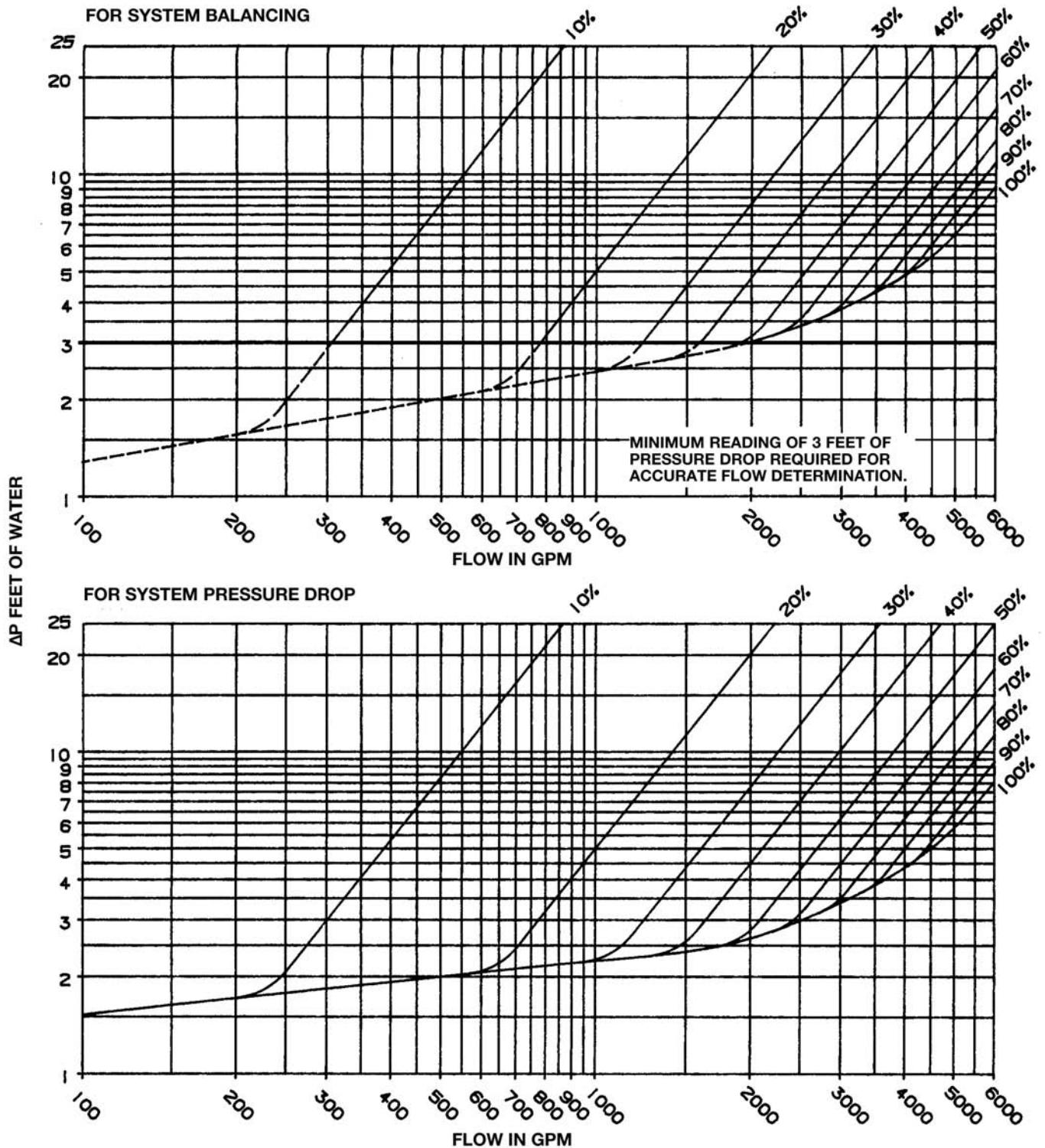


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Triple Duty® Valve (Straight Pattern) PERFORMANCE CHARACTERISTICS

Part No. 132120

Model No. 3DS-14S

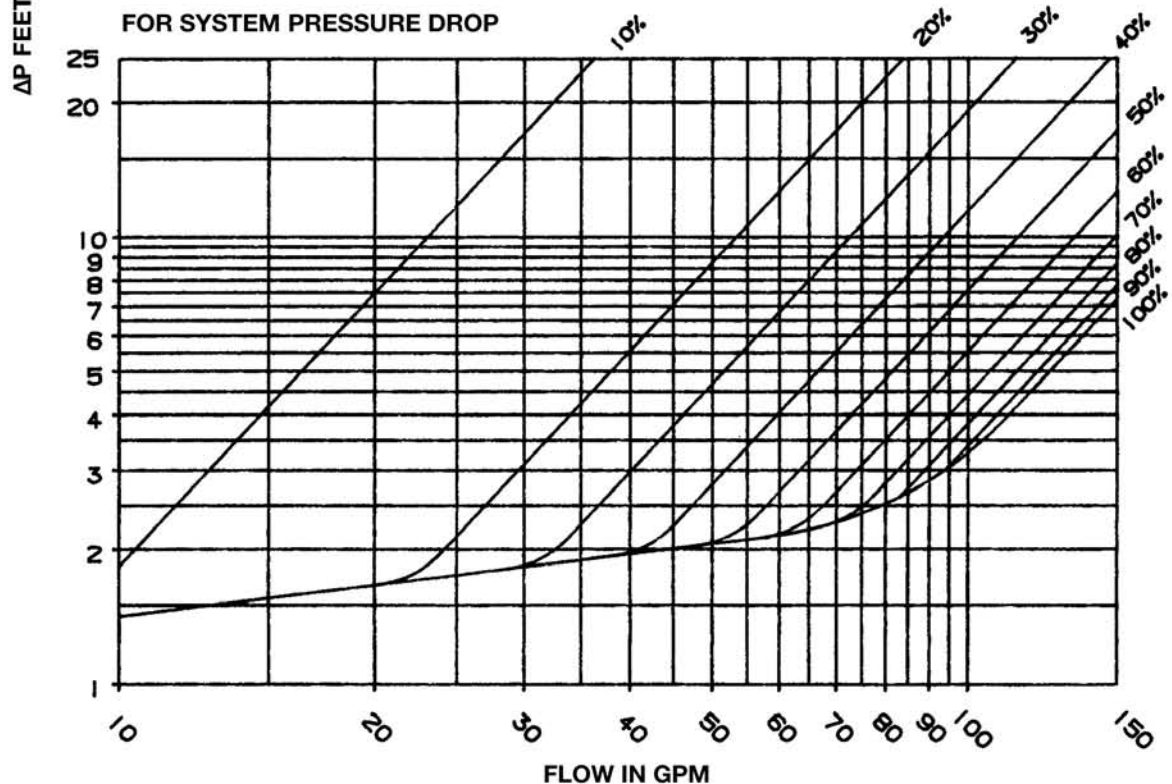
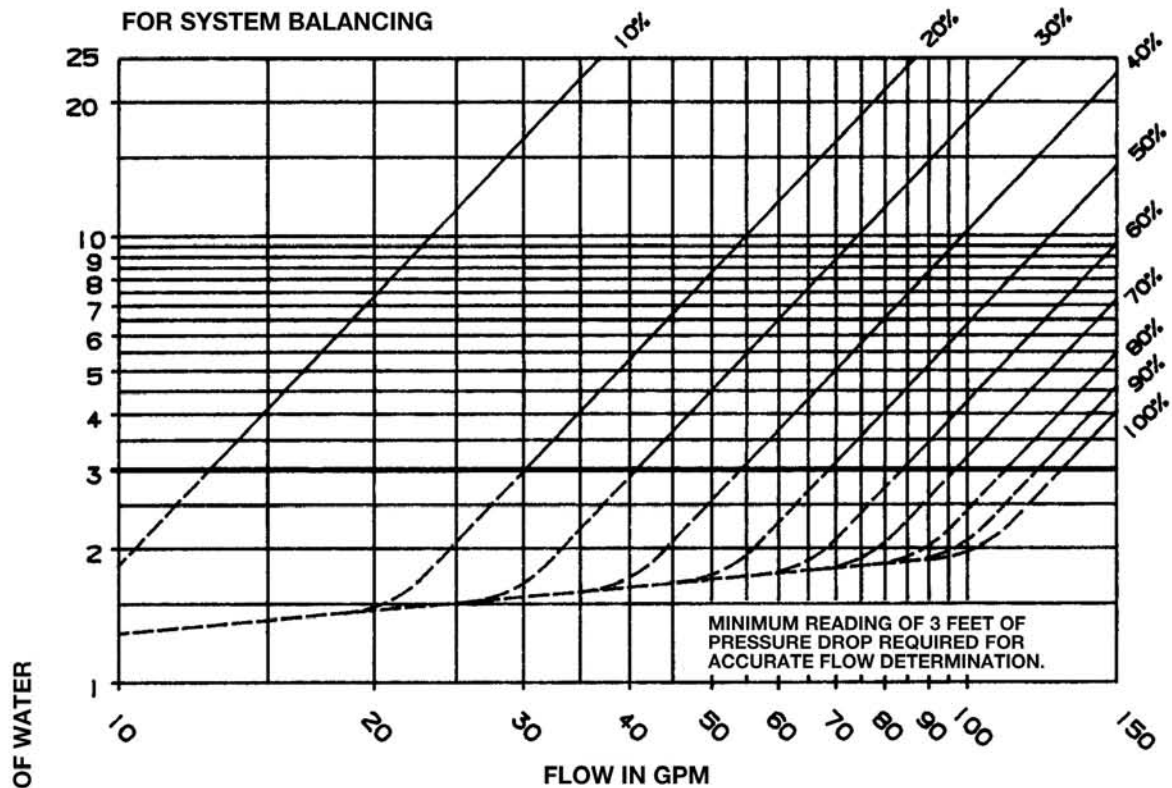


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Triple Duty® Valve (Angle Pattern) PERFORMANCE CHARACTERISTICS

Part No. 132131

Model No. 3D-2S

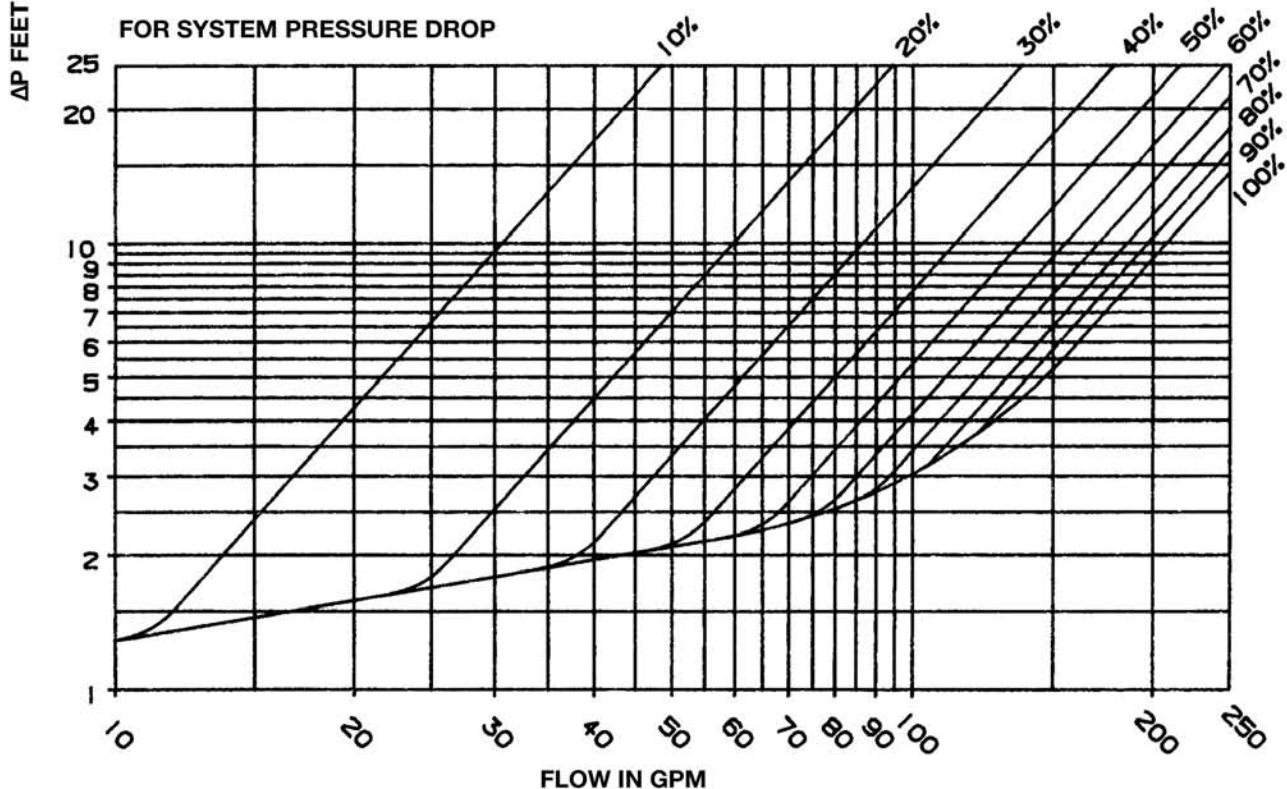
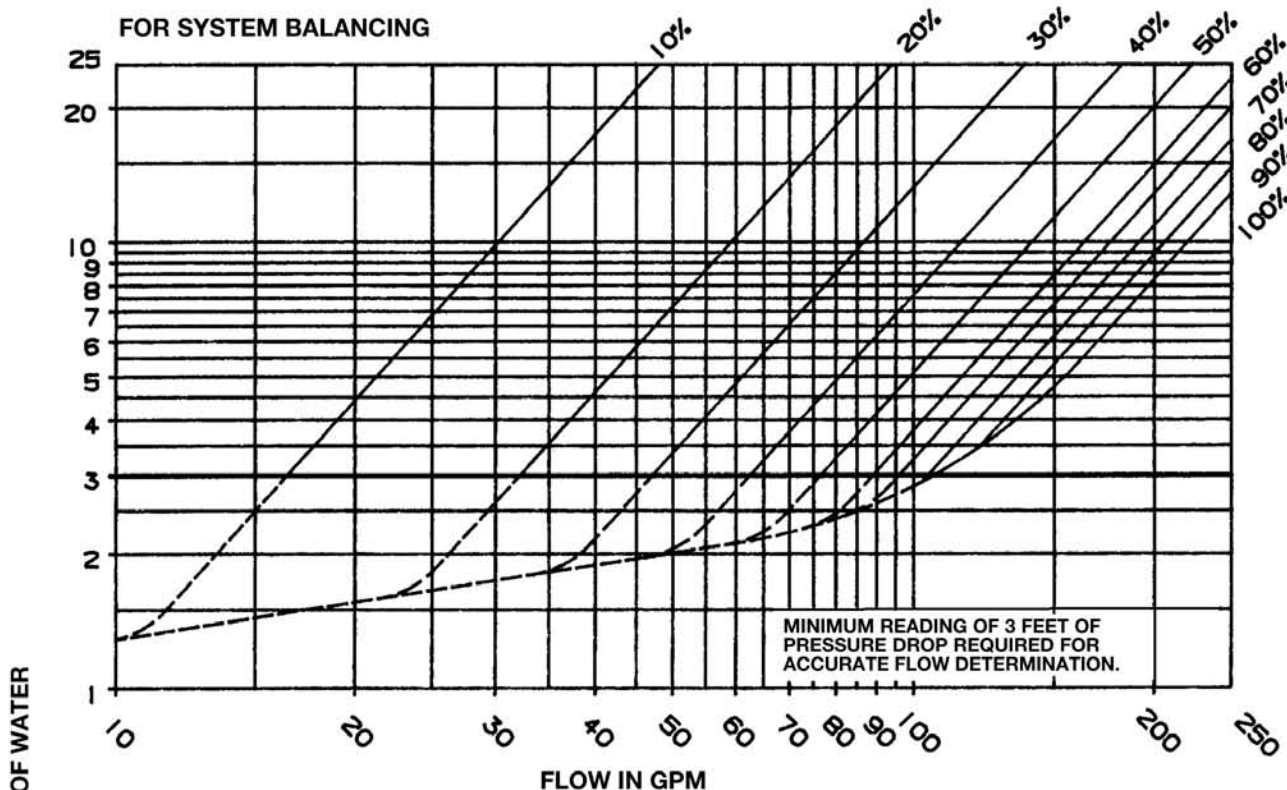


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Triple Duty® Valve (Angle Pattern) PERFORMANCE CHARACTERISTICS

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Model No. 3D-2½S

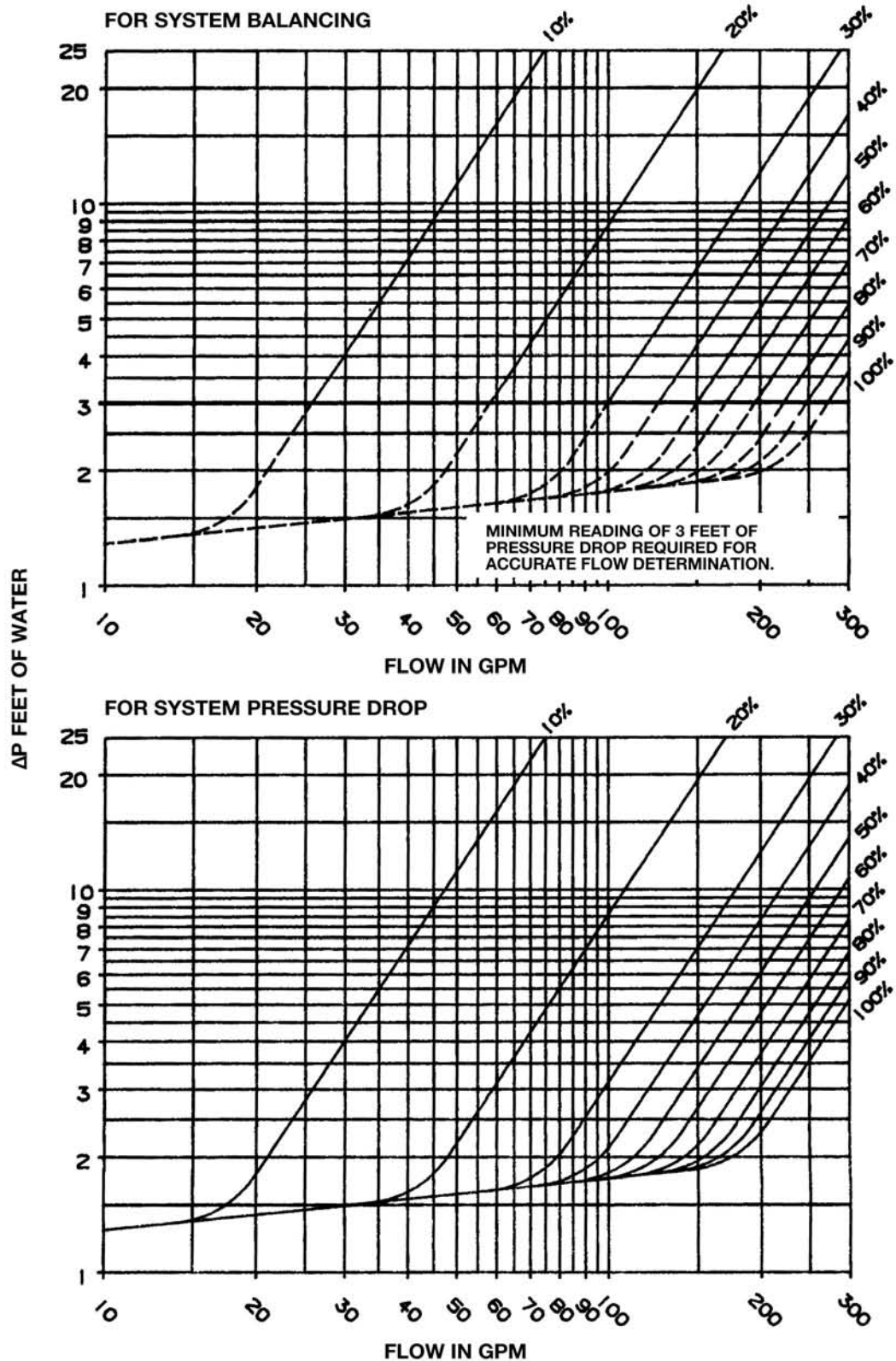


TRIPLE DUTY® VALVES

Triple Duty® Valve (Angle Pattern) PERFORMANCE CHARACTERISTICS

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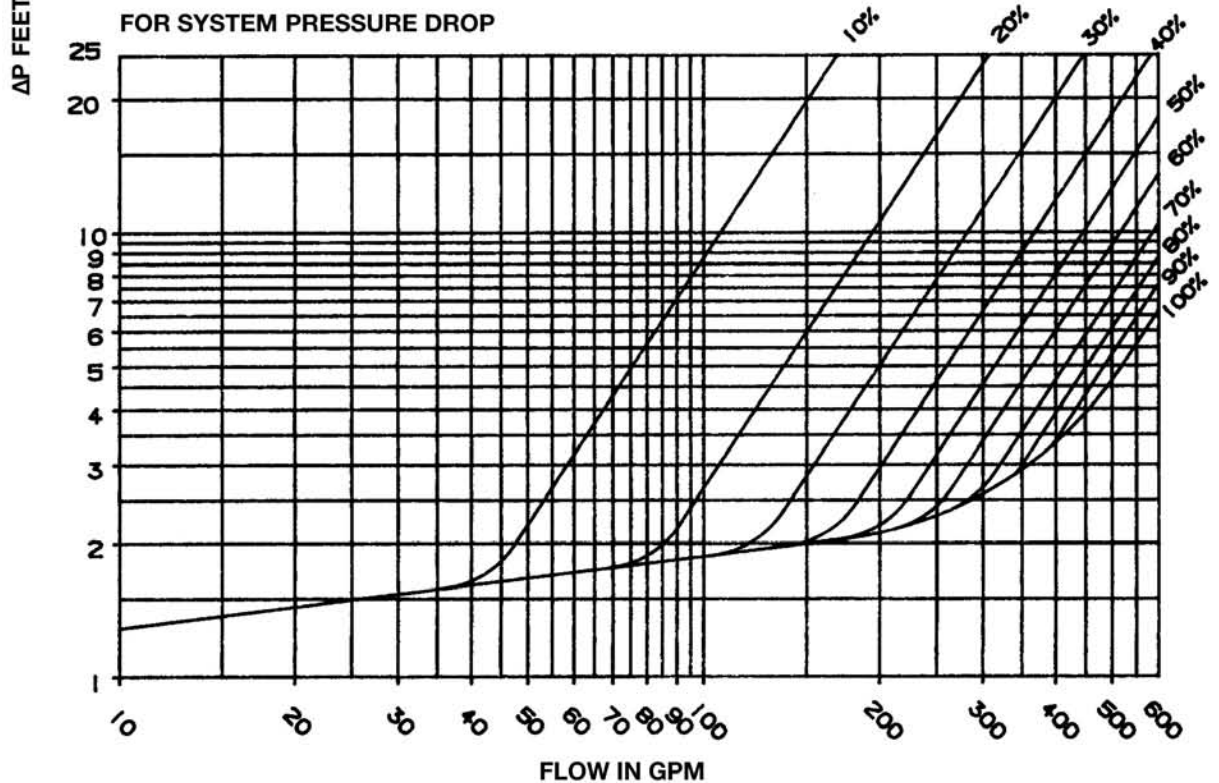
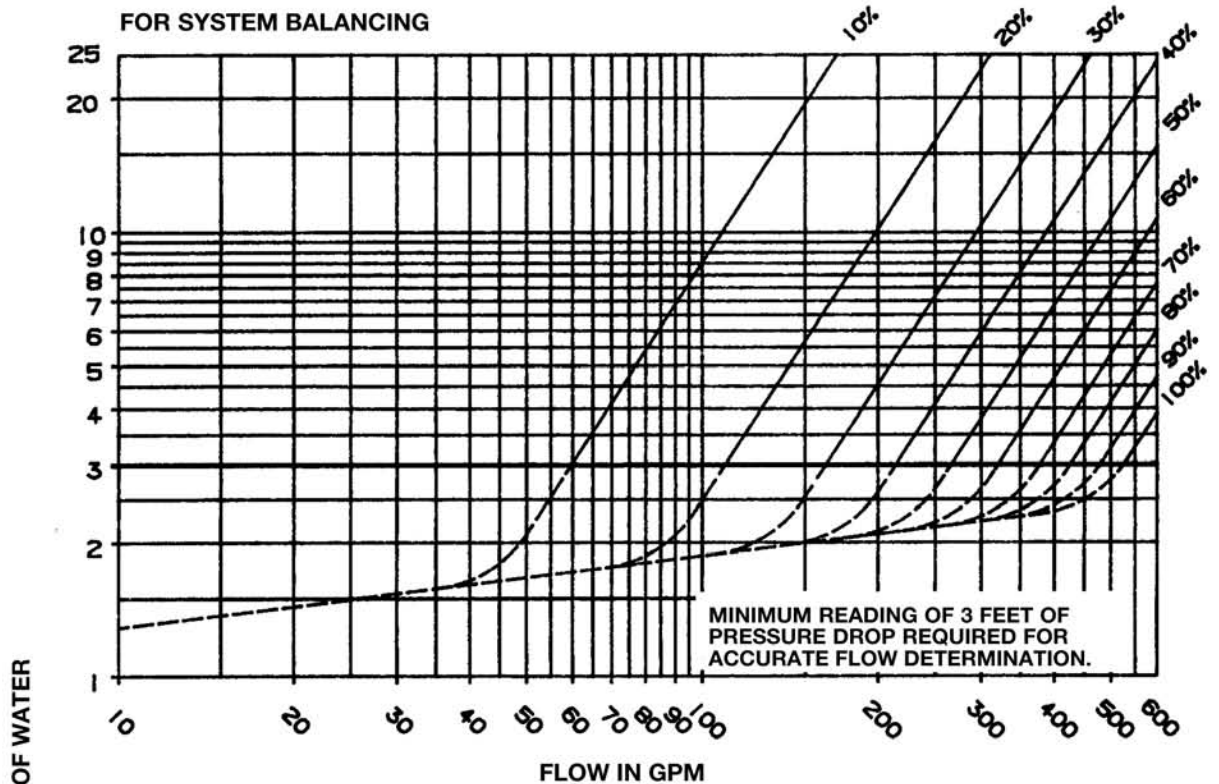


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Triple Duty® Valve (Angle Pattern) PERFORMANCE CHARACTERISTICS

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Model No. 3D-4S

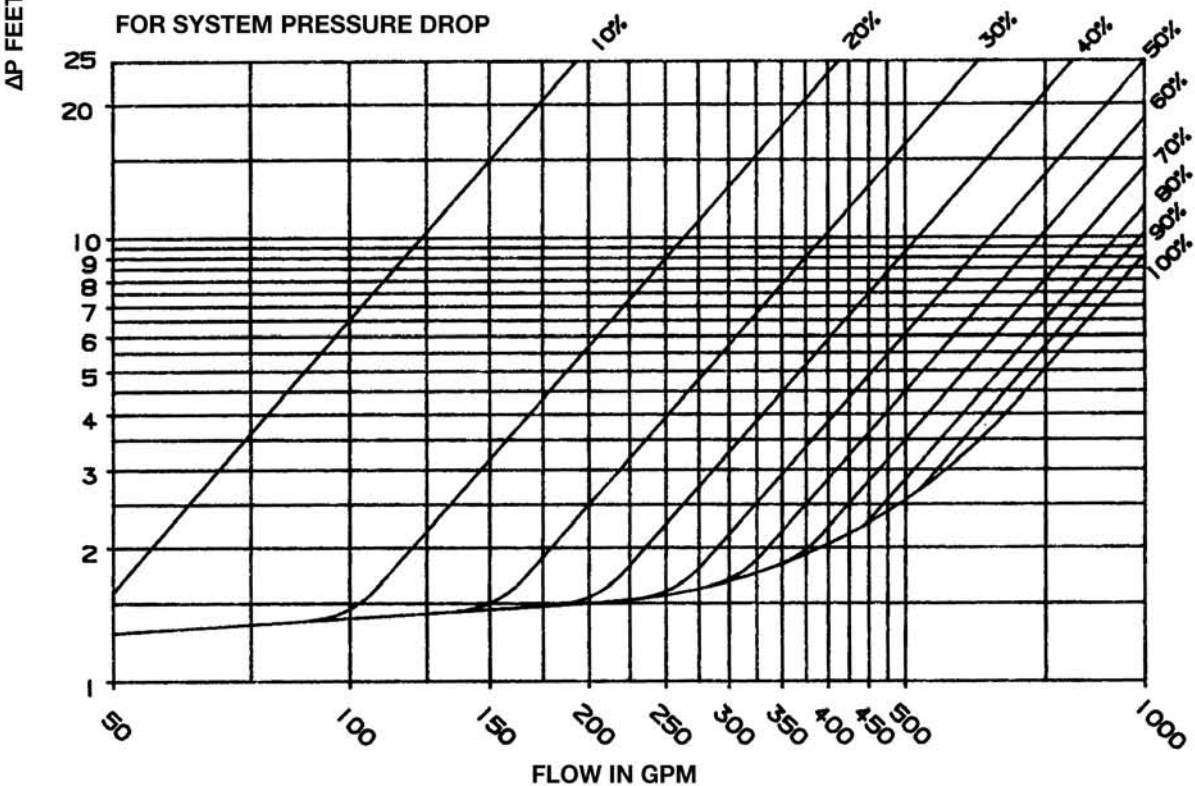
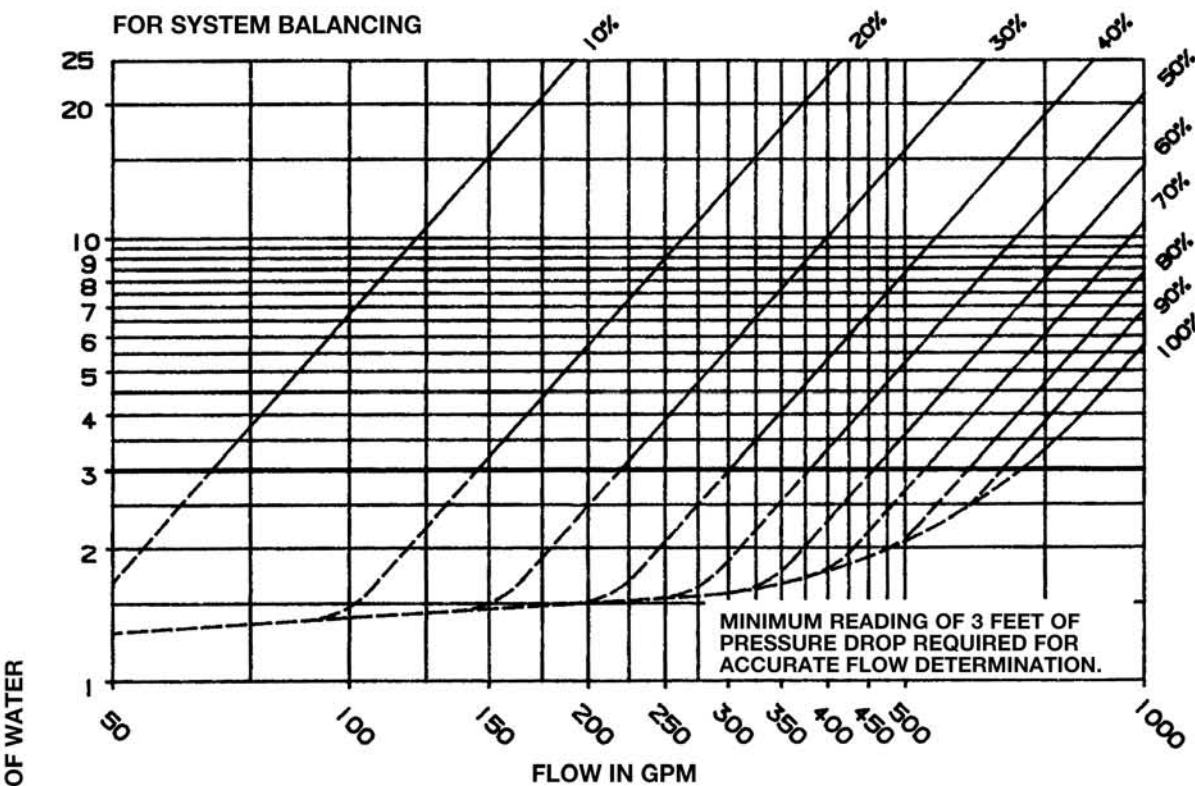


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Triple Duty® Valve (Angle Pattern) PERFORMANCE CHARACTERISTICS

Part No. 132135

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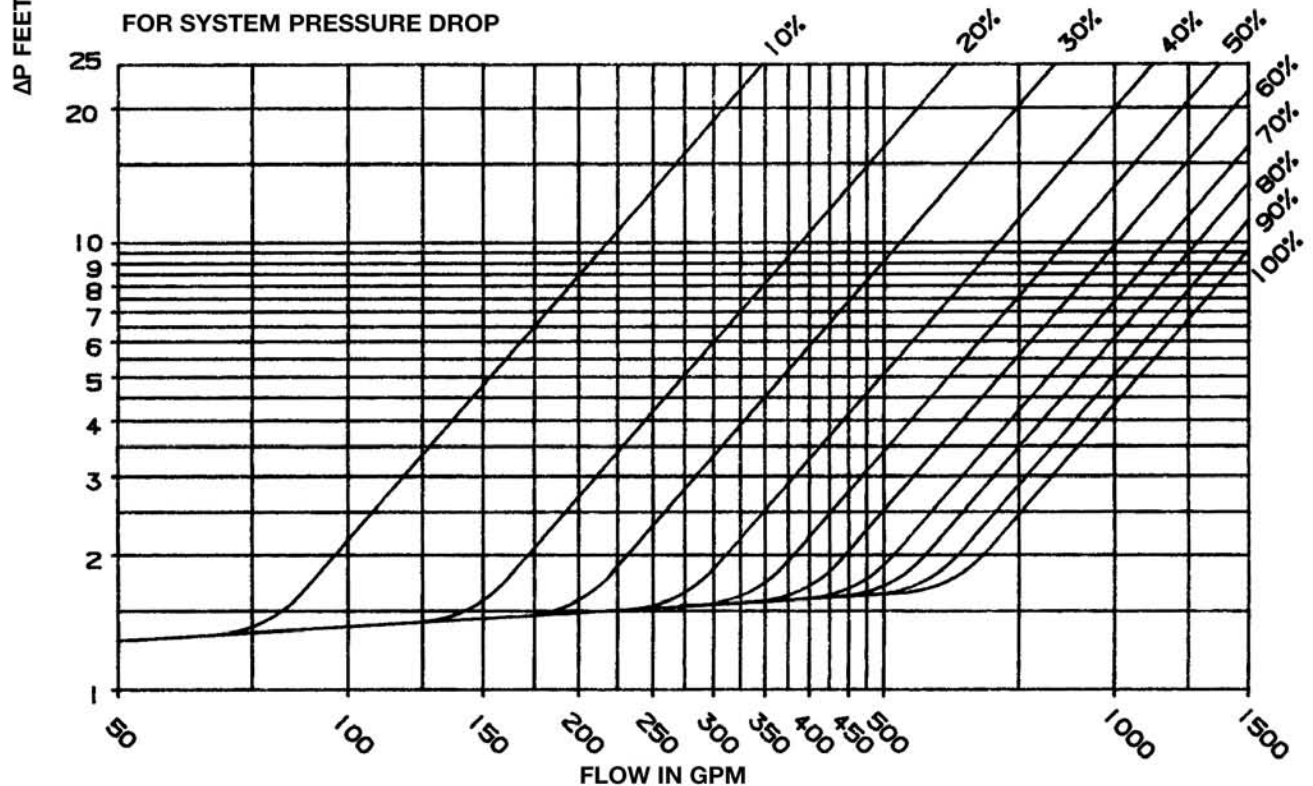
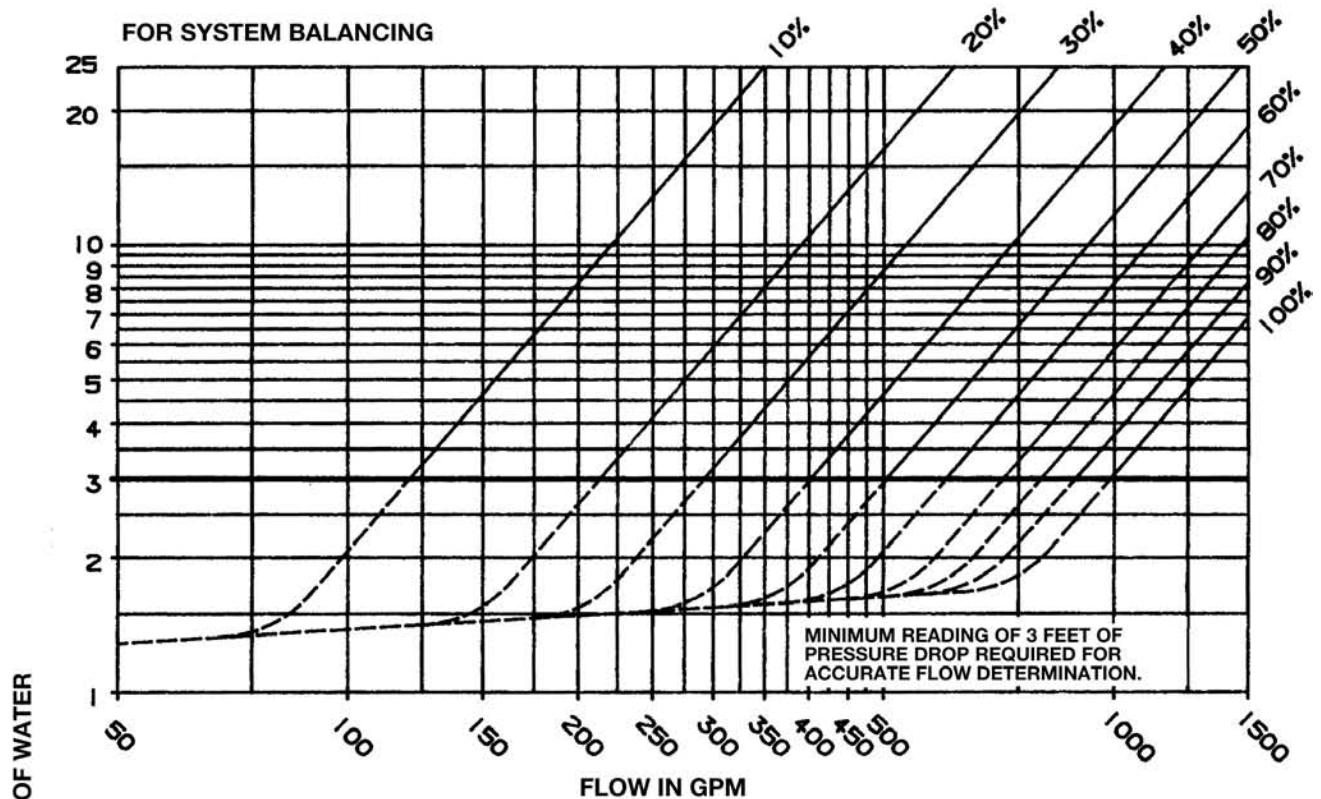


TRIPLE DUTY® VALVES

Triple Duty® Valve (Angle Pattern) PERFORMANCE CHARACTERISTICS

Part No. 132136

Model No. 3D-6S

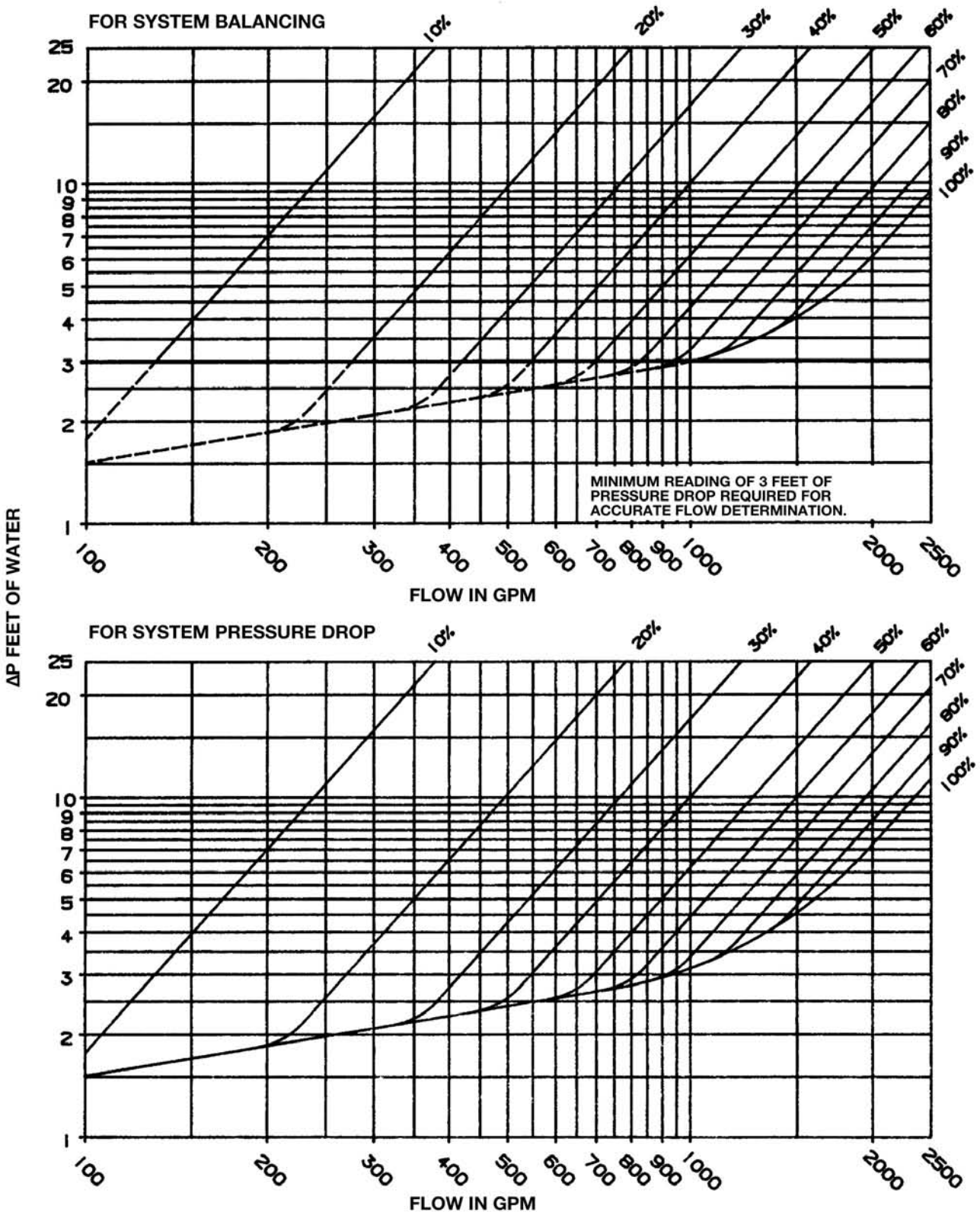


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Triple Duty® Valve (Angle Pattern) PERFORMANCE CHARACTERISTICS

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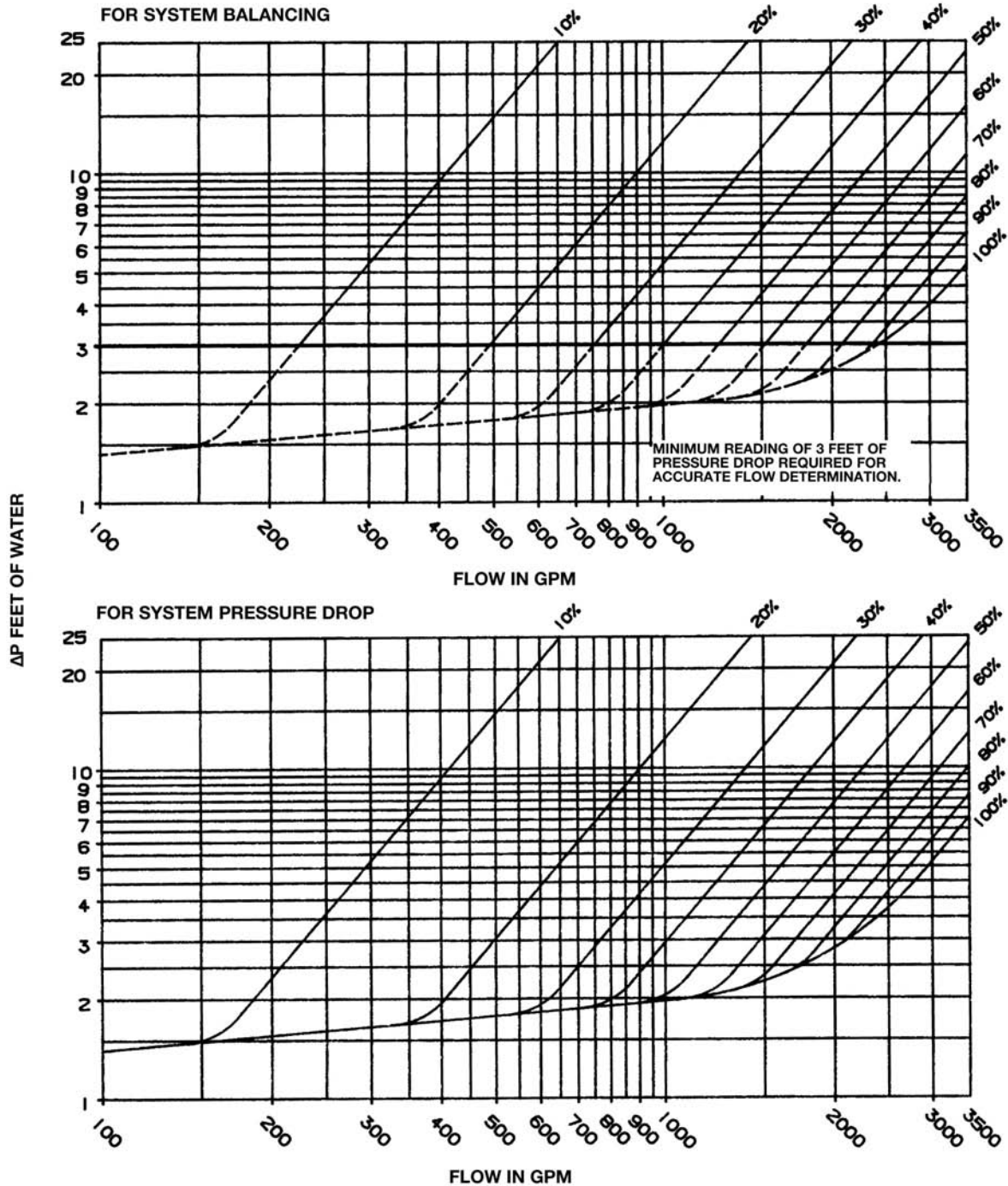
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Triple Duty® Valve (Angle Pattern) PERFORMANCE CHARACTERISTICS

Part No. 132138

Model No. 3D-10S



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www.xyleminc.com/brands/bellgossett



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