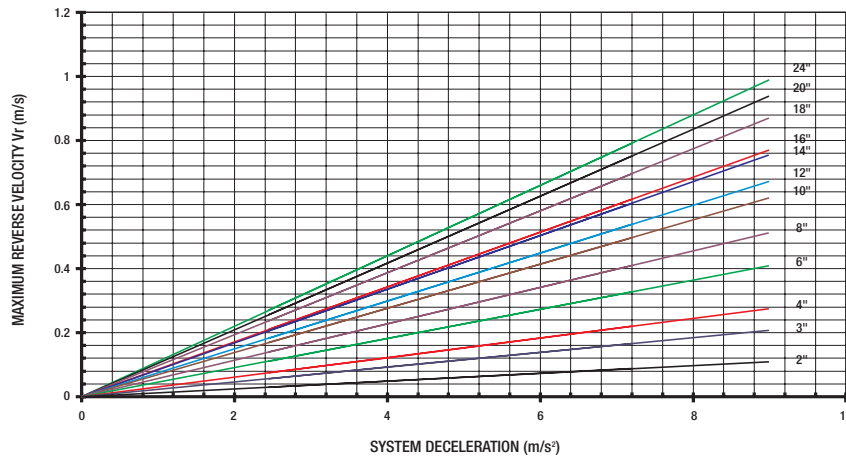


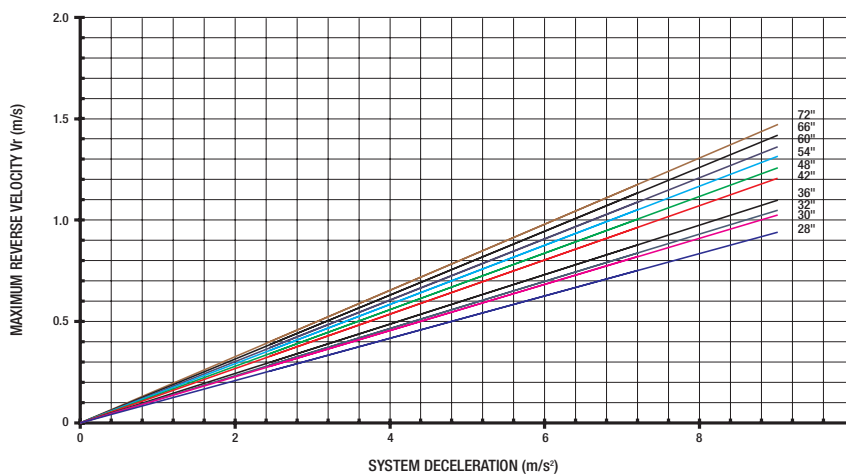
SUPER TORQUE SPRING

DYNAMIC CHARACTERISTICS - FOR WATER AT 15.6°C

2" to 24" Class 150/300



28" to 72" Class 150/300



- ◆ 4" – 12" Goodwin Check Valves with Super Torque Springs installed have Dynamic Characteristics similar to, or better than, an equivalent Nozzle Type Non-Slam Check Valve.
- ◆ 12" and larger Goodwin Check Valves with Super Torque Springs installed have Dynamic Characteristics approximately 20% slower than equivalent Nozzle Type Non-Slam Check Valves but at a fraction of the cost.
- ◆ Competitors' Dual Plate Check Valves do not exhibit the fast response of the Goodwin Super Torque Valve as they do not have the low weight and low inertia of the slim Goodwin plate design as illustrated on page 39.
- ◆ Super Torque Springs provide Goodwin Check Valves with good Cv figures. On some sizes Goodwin Check Valves have better Cv values than Nozzle Type Non-Slam Check Valves which cost many times more than Dual Plate Wafer Check Valves.
- ◆ Maximum Reverse Flow Velocities for a given system deceleration will be reduced for higher pressure Goodwin Check Valves due to the smaller flow area through the valve. This is reflected in a reduced Cv factor as shown on page 34.
- ◆ Valves are normally supplied with High Torque Springs which produce Maximum Reverse Velocities some 30% greater than valves equipped with Super Torque Springs. Customers requiring Super Torque Springs must specify such on their enquiry and order.
- ◆ The above graphs were produced by extrapolation of results obtained during testing at Delft Hydraulics Laboratory, The Netherlands.

VALVE SIZE (150lb)	VALVE COEFFICIENT (Cv)	
	GOODWIN DUAL PLATE CHECK VALVE	TYPICAL NOZZLE CHECK VALVE
6"	900	1250
8"	1589	1800
10"	3300	2800
12"	3926	4000
16"	8256	7500
20"	14251	13000
24"	26511	16100