

Model DD8N & DD8V Double Check Backflow Preventer 2-1/2" to 10"

SPECIFICATIONS

FEATURES

- Up to 80% shorter lay length
- Reduce total cost by up to 40%
- Extremely low head loss
- All parts are corrosion resistant
- Designed for easy field testing

APPLICATIONS

Model DD8N & DD8V double check detector assemblies are for use on fire service pipelines where they prevent backflow of non-health-hazardous liquids and detects leaks and unauthorized use of water.

CHARACTERISTICS

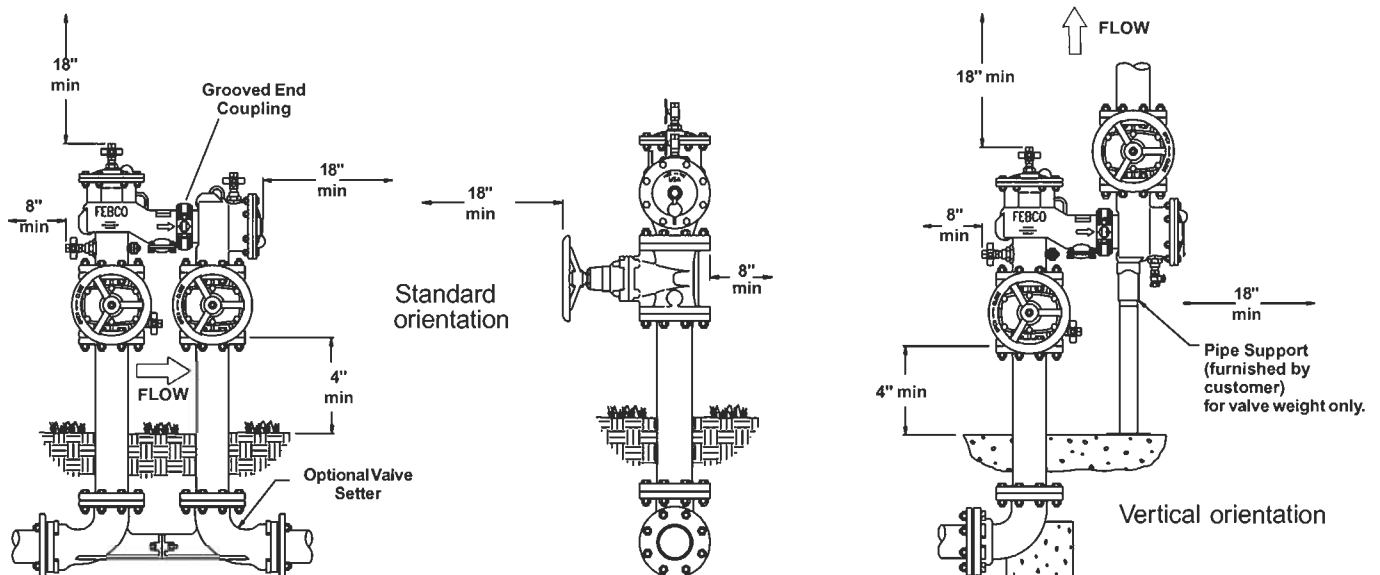
Max pressure: 175 psi
Hydrostatic test pressure: 350 psi
Temp range: 32°F to 140°F

The mainline of the double check detector backflow preventer assemblies include two independently acting, spring-loaded approved check valves mounted between two tightly closing resilient seated shutoff valves, and the necessary four resilient seated test cocks.

In a nonflow condition check valves in the by-pass and mainline units are closed. Flows from zero to approximately 5 GPM will flow through the by-pass. This operation is accomplished by the pressure drop across the by-pass line from the mainline check valve. Therefore, any flow through the fireline system is measured through the by-pass meter. Flows over 5 GPM will go through the mainline assembly and the by-pass line.

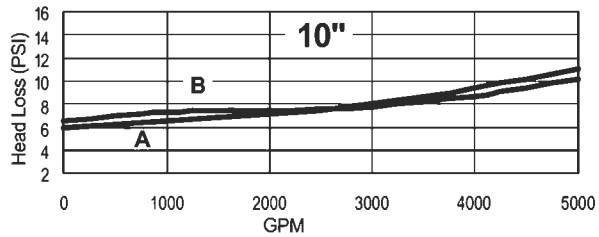
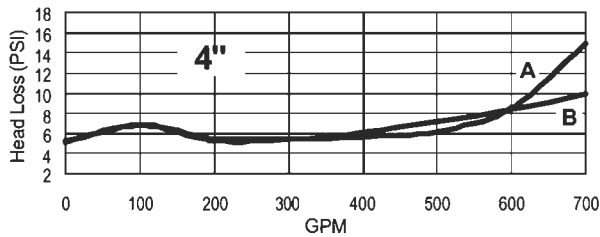
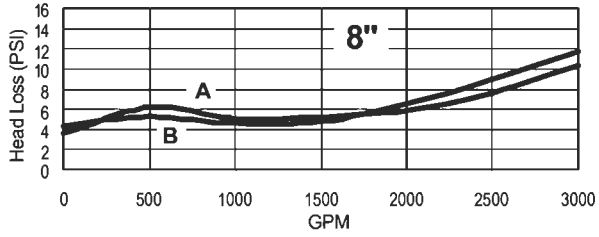
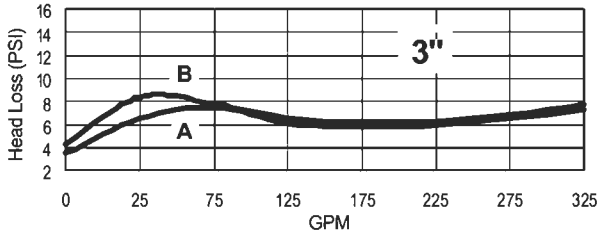
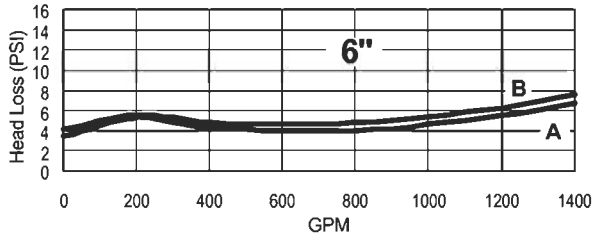
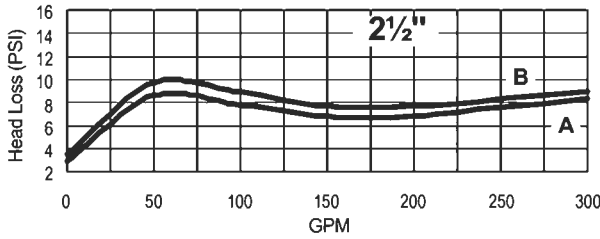


INSTALLATION



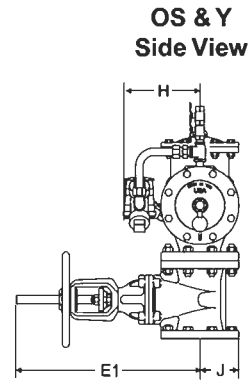
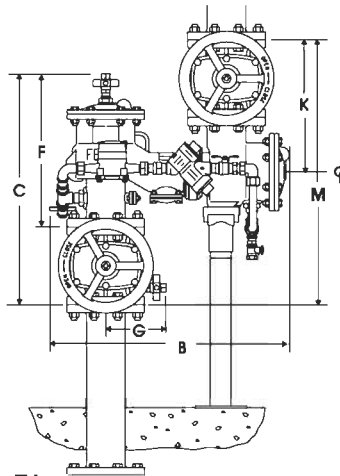
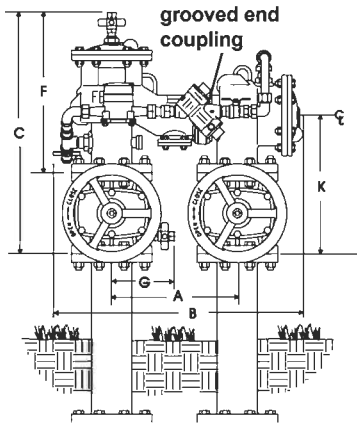
MODEL DD8N & DD8V

FLOW CURVES



Standard orientation is inlet flow vertical up, outlet flow vertical down.
Vertical orientation is inlet and outlet flow vertical up.

A-Vertical orientation
B-Standard orientation



DIMENSIONS

SIZE	A	B	C	E1		F	G	K	M	Net OS&Y (lbs.) Approximate
				OS&Y Full	Open					
2 1/2"	12 1/2	25 3/4	24 1/4	16 3/8	16 5/8	6 1/4	13 5/8	27 1/4	225	
3"	12 1/2	25 3/4	24 3/4	22 1/4	16 5/8	6 1/4	14 1/8	28 1/4	295	
4"	14	27 7/8	26 3/4	23 1/4	17 3/4	7	15 1/2	31	322	
6"	16	32 1/4	32 1/4	30 1/8	21 5/8	8	18 5/8	37 1/4	510	
8"	18 1/2	37 1/2	36 3/8	37 3/4	24 3/4	9 1/4	20 3/4	41 1/2	843	
10"	21	42 1/2	40 3/4	48	27 1/2	10	24	48	1437	

Weights do not include risers or optional valve setter. Note: Dimensions shown are nominal.

MATERIALS

Main Valve Body
Coating
Shutoff Valves
Trim
Elastomer Discs

Ductile iron ASTM A536 Grade 65-45-12
Fusion epoxy coated internal and external AWWA C550-90
NRS & OS&Y resilient wedge AWWA C509 gate valves
Bronze ASTM B584 Alloy C83600
EPDM
Springs Stainless steel