

Figures 6600-D, 6600-U, 6700-D, 6700-U Surge Relief Valves for Water



Data Sheet SRV.01

Description

VAG/GA Industries Figures 6600-D, 6600-U, 6700-D and 6700-U self-contained, pilot-operated, differential piston actuated surge relief valves protect water systems from excessively high pressure due to a sudden stoppage of pumping or valve closure.

The valves are closed as long as the pressure at its inlet is below the pilot setting but open as quickly as needed to discharge water out of the system at the rate necessary to prevent a further rise in pressure. The valve closes slowly and seals tightly when pressure decreases below the pilot setting.

The valve's unique V-port trim ensures stable operation under all conditions and its full port design provides maximum relief capacity.



Product Features

- Heavy duty cast iron body with lead-free bronze internals for long term dependable service
- V-port trim provides excellent flow control plus full port capacity
- Standard visual position indicator
- Pilot system standard with closing speed needle valve, wye strainer and pilot isolating valves

Standard Materials

- Body Cast Iron, ASTM A126 Class B
- Cover Steel, ASTM A36
- Internal Trim Lead-free Bronze
- Renewable Seat Buna-N
- Internal Fasteners Stainless Steel
- External Fasteners Steel, A307, Zinc Plated
- Pilot System Lead Free Brass, Bronze or Copper

Corrosion Protection

- Standard: Internal and External Carboline 891 NSF-61 Certified Epoxy, min 6 mil DFT
- Option P2 316 Stainless Steel External Fasteners

Options & Accessories

- Option 1S With Honeywell HDLS NEMA 1, 3, 4, 4X, 6, 6P, 12 & 13 SPDT Limit Switch

Ordering Data

- Figure Number (6600-D, 6600-U, 6700-D, 6700-U)
- Size
- Installation Orientation
- Options and/or Accessories

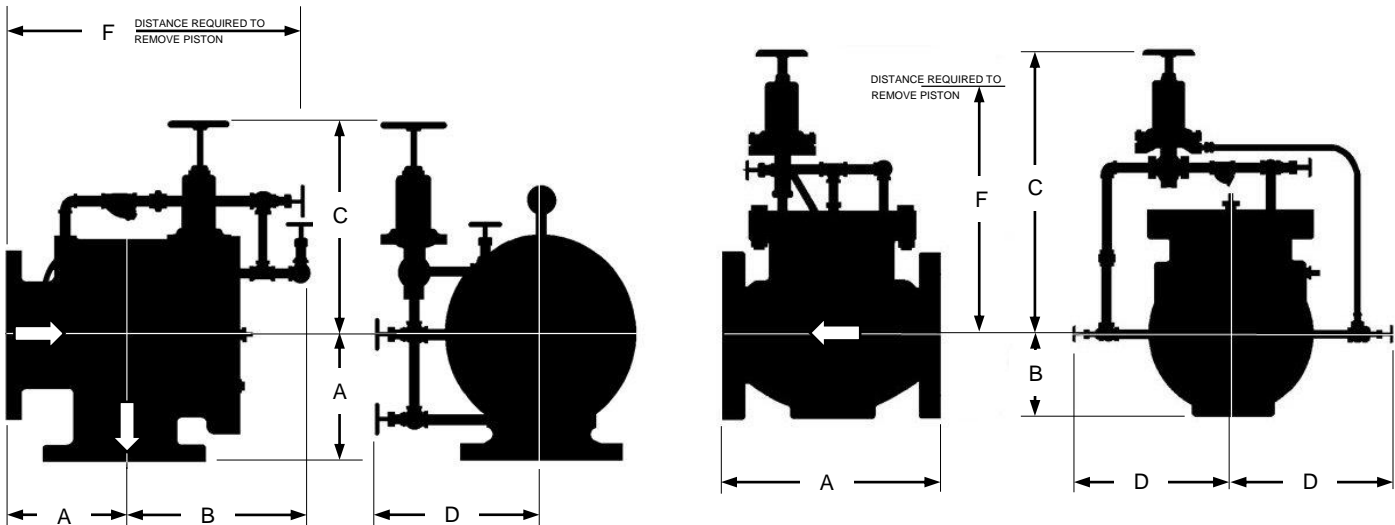
Non-Shock Working Water Pressure Up to 125F (52C)			
Figure Number	6600-D (Angle Body)		6600-U (Angle Body)
	6700-D (Globe Body)		6700-U (Globe Body)
Flanges	ANSI B16.1 Class 125		ANSI B16.1 Class 250
Size	3" – 12"	14" to 20"	3" – 20"
Max Inlet	200 PSI	150 PSI	300 PSI
Hydro Test	300 PSI	225 PSI	450 PSI



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SIZING GUIDELINES	Figure Number	Recommended Surge Relief Valve Size									
		3"	4"	6"	8"	10"	12"	14"	16"	18"	20"
Maximum Pump Station Output, USGPM	6600-D 6600-U	1,000	2,000	4,500	8,000	13,000	19,000	24,000	30,000	40,000	50,000
	6700-D 6700-U	700	1,000	2,000	4,500	8,000	13,000	19,000	24,000	30,000	40,000
Approximate Flow Area Through Valve, Square Inches		7.1	12.6	28.3	50.3	78.5	113.1	153.9	201.1	254.5	314.2

- Above is for guidance only and assumes surge relief valve discharges to atmospheric pressure. Many factors affect surge relief valve sizing. Contact VAG/GA Industries for computer aided surge relief valve sizing.
- Smaller size surge relief valves are available for flows below 500 GPM, see Data Sheet 667.01
- A multiple of smaller surge relief valves with a combined flow area equal or greater than a single large valve may be substituted for the single valve (e.g., 3 – 12" versus 1 – 20")



Angle Body Installation Dimensions

	A	B	C	D	F	WGT
3"	6	13	16	11	16	160
4"	6½	14	17	12	18½	200
6"	8¾	17	18	14	22¾	350
8"	11¼	19	19	15	29¼	700
10"	14¼	21	21½	18	35¼	1,200
12"	15½	24	21½	19	40½	1,500
14"	16½	27	22	21	44½	1,700
16"	18	30	24	23	51	2,300
18"	20½	30	26	24	58½	3,600
20"	20½	30	26	24	58½	3,800

Globe Body Installation Dimensions

	A	B	C	D	F	WGT
3"	12	4¼	24	9	10	160
4"	13	5¼	25	10	12	200
6"	18	6½	27	12	14	350
8"	24½	8¼	30	14	18	700
10"	26	9¼	30	18	21	1,200
12"	31	13	39	19	25	1,500
14"	33	12¼	41	20	28	1,700
16"	36	13½	45	21	33	2,300
18"	40	17	48	23	38	3,600
20"	40	17	48	23	38	3,800

- Dimension A same for both Class 125 and Class 250 flanged valves, Class 250 supplied with flat face
- Dimensions are in inches, weight in pounds and are approximate. Consult factory if critical.
- 24" and larger valves available, consult factory