







<b>52-03 Valve Selection</b>	<b>100-01 Pattern:</b> Globe (G), Angle (A), <b>End Connections:</b> Threaded (T), Grooved (GR), Flanged (F) Indicate Available Sizes										
	Inches	2½	3	4	6	8	10	12	14	16	18
	mm	65	80	100	150	200	250	300	350	400	450
Basic Valve 100-01	Pattern	G, A	G, A	G, A	G, A	G, A	G, A	G, A	G, A	G, A	G
	End Detail	T, F, Gr*	T, F, Gr	F, Gr	F, Gr*	F, Gr*	F	F	F	F	F
Suggested Flow (gpm)	Maximum	300	460	800	1800	3100	4900	7000	8400	11000	14000
	Maximum Surge	670	1000	1800	4000	7000	11000	16000	19000	25000	31000
Suggested Flow (Liters/Sec)	Maximum	19	29	50	113	195	309	442	530	694	883
	Maximum Surge	42	63	113	252	441	693	1008	1197	1577	1956

100-01 Series is the full internal port Hytrol.

\*Globe Grooved Only

<b>652-03 Valve Selection</b>	<b>100-20 Pattern:</b> Globe (G), Angle (A), <b>End Connections:</b> Flanged (F) Indicate Available Sizes											
	Inches	3	4	6	8	10	12	14	16	18	20	24
	mm	80	100	150	200	250	300	350	400	450	500	600
Basic Valve 100-20	Pattern	G	G, A	G, A	G, A	G	G	G	G	G	G	G
	End Detail	F	F	F	F	F	F	F	F	F	F	F
Suggested Flow (gpm)	Maximum	260	580	1025	2300	4100	6400	9230	9230	16500	16500	16500
	Maximum Surge	440	990	1760	3970	7050	11000	15900	15900	28200	28200	28200
Suggested Flow (Liters/Sec)	Maximum	16	37	65	145	258	403	581	581	1040	1040	1040
	Maximum Surge	28	62	111	250	444	693	1002	1002	1777	1777	1777

100-20 Series is the reduced internal port size version of the 100-01 Series.

**Sizing Information:** Because of the many variable conditions that generally exist in any given system, proper sizing is important. Incorrect valve sizing will nullify the ability of the Surge Anticipator Valve. For valve sizing assistance, contact Cla-Val with the following specific pump and system information: number and type of pumps; shutoff head; flow rate; discharge static head and pumping head; pipe size; length; thickness and material.

### Pilot System Specifications

#### Adjustment Ranges

##### High Pressure Pilot (CRL)

- 0 to 75 psi
- 20 to 200 psi \*
- 100 to 300 psi
- 250 to 600 psi

##### Low Pressure Pilot (CRA)

- 2 to 30 psi
- 15 to 75 psi
- 30 to 300 psi \*

\*Supplied unless otherwise specified  
Other ranges available, please consult factory

#### Temperature Range

Water: to 180°F

#### Materials

##### Standard Pilot System Materials

- Pilot Control: Bronze ASTM B62
- Trim: Stainless Steel 303
- Rubber: Buna-N® Synthetic Rubber
- Tubing & Fittings: Copper and Bronze

##### Optional Pilot System Materials

Pilot systems are available with optional Aluminum, Stainless Steel or Monel materials.

### When Ordering, Please Specify

1. Catalog No. 52-03 or No. 652-03
2. Valve Size
3. Pattern - Globe or Angle
4. Pressure Class
5. Threaded or Flanged
6. Trim Material
7. Adjustment Range
8. Desired Options
9. When Vertically Installed
10. Product Enhancement