Type-21 SST TECHNOLOGY

ASAHI/AMERICA®
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NEW PRODUCT BULLETIN

Type-21a SST Technology Flow Control Ball Valve

Introducing the Type-21a SST ball valve with **Seat Support Technology**. This revolutionary true union ball valve offers precise flow control along with all the other benefits of Asahi/America's standard Type-21 ball valve. Available in ½" - 2 ", with PVC body, the valve's PVC machined ball has a center provision to support PTFE seats. The new valve is equipped with a 0 - 100% open indication plate for manual models which attaches via an ISO 5211 top flange bolt pattern. The SST valve features equal percentage flow characteristics. The valve can be actuated electrically or pneumatically.

Standard Features (Sizes 1/2" – 2")

- PVC body
- EPDM or FKM seals
- True union design
- Equal percentage flow characteristics
- Precision machined flow control ball and seat design
- SST - Seat Support Technology
- Degreed indicator plate (manual type)
- Indicator line on handle (manual type)
- Flow direction arrow label
- Handle doubles as carrier adjustment tool
- ISO 5211 top flange bolt pattern
- Integrally molded base pad for panel mounting
- Dual stem O-rings

Options

- Electric actuation with 4-20 mA control
- Pneumatic actuation with 4-20mA control
- Stem extension
- 2" square operating nut

Specifications

Sizes:	1/2" – 2"
Models:	Socket, Threaded and Flanged
Operator:	Manual Lever
Bodies:	PVC
Seats:	PTFE
Seals:	EPDM or FKM

www.asahi-america.com • asahi@asahi-america.com • Tel: 800-343-3618 • 781-321-5409 • Fax: 800-426-7058

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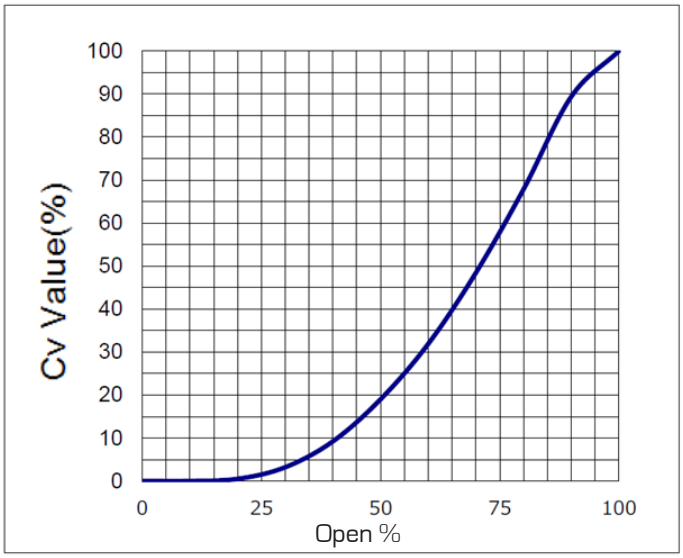
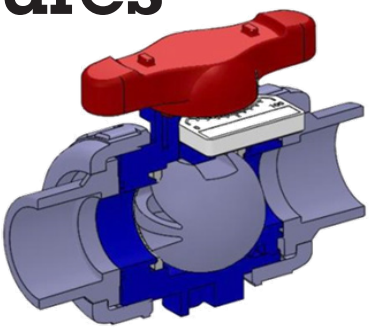
Technical Features





PVC ball has center provision to support PTFE seats

CV Value

Open %	VALVE SIZES				
	1/2"	3/4"	1"	1-1/2"	2"
0	0	0	0	0	0
10	0	0	0	0	0
20	0	0	0	0.5	1.4
30	0.2	0.1	0.3	2.2	4.5
40	0.3	0.8	1.5	4.9	10.0
50	0.9	1.9	3.0	9.2	17.3
60	1.9	3.2	5.0	14.8	27.0
70	3.0	5.1	7.9	21.0	39.0
80	4.2	7.2	11.6	29.8	53.8
90	5.3	9.0	15.8	40.0	70.7
100	5.5	9.6	18.0	46.0	81.0

% of CV Value

Open %	VALVE SIZES				
	1/2"	3/4"	1"	1-1/2"	2"
0	0	0	0	0	0
10	0	0	0	0	0
20	0	0	0	1	2
30	3	1	1	5	6
40	6	8	8	10	12
50	17	20	17	20	21
60	35	34	27	32	33
70	55	53	44	45	48
80	77	74	64	64	66
90	96	94	87	86	87
100	100	100	100	100	100

Pressure Vs. Temperature

Nominal Size		30° F 70° F	71° F 105° F	106° F 120° F	121° F 140° F
Inches	mm				
1/2" - 2"	15 - 50	230	170	150	30

Weight (Lbs.)

Nominal Size		PVC
Inches	mm	Soc/Thrd
1/2"	15	0.44
3/4"	20	0.66
1"	25	1.10
1-1/2"	40	2.45
2"	50	4.18

Position Indication from Closed to Open

0% Open

50% Open

100% Open