

Asahi Type-21/21a Ball Valve Data Sheet

Features:

- **True union design:** for fast, tool-free installation and maintenance
- **PTFE seats** with elastomeric backing: secure, bubble-tight shutoff and reduces downtime
- **Full bore design** (sizes 0.5 – 2") for unrestricted flow and reduced pressure drop
- **Rated for full vacuum** (0.5 – 6")
- **Double O-ring stem seals:** enhanced leak protection
- **Simple disassembly/reassembly** with built-in spanner wrench

- **Multiple end connections** available in socket and threaded (0.5 – 2"), butt, and flanged
- **Direct actuator installation:** via molded ISO 5211 mounting pad

Options:

- Pneumatic and electric actuators and accessories
- Stem extensions
- 2" square operating nut
- J-Switch®
- Locking Handles
- Limit switches
- Vented ball

Pressure vs. Temperature: (kPa, water, non-shock)

Material	Temp (C)	0.5-2" (15-50)	2.5" (65)	3" (80)	4-6" (100-150)
PVC	0 - 20°	1585.79	1585.79	1585.79	1034.21
	21 - 40°	1172.11	1172.11	1172.11	1034.21
	41 - 49°	1034.21	1034.21	1034.21	1034.21
	50 - 60°	206.84	N/A	N/A	N/A
CPVC	0 - 20°	1585.79	1585.79	1585.79	1034.21
	21 - 40°	1172.11	1172.11	1172.11	1034.21
	41 - 49°	1034.21	1034.21	1034.21	1034.21
	50 - 60°	827.37	827.37	586.05	586.05
	61 - 79°	517.11	517.11	379.21	379.21
	80 - 90°	379.21	379.21	275.79	275.79
PP	-20 - +29°	1034.21	1034.21	1034.21	1034.21
	30 - 49°	758.42	655.00	655.00	655.00
	50 - 60°	620.53	482.63	482.63	482.63
	61 - 79°	379.21	275.79	275.79	275.79
PVDF	-20 - 20°	1585.79	1585.79	1585.79	1034.21
	21° - 40°	1275.53	1275.53	1275.53	1034.21
	41 - 60°	1034.21	1034.21	1034.21	1034.21
	61 - 79°	792.90	792.90	689.48	689.48
	80 - 99°	586.05	586.05	482.63	482.63

Specifications:

PVC / EPDM / FKM models (sizes 0.5 - 4") & CPVC / EPDM / FKM models (sizes 0.5 - 4") NSF-61 Certified

- Sizes:** 0.5 - 6"
- Models:** PVC and CPVC: Socket, Threaded, and Flanged
PP and PVDF: IPS and Metric (DIN) Socket, Threaded, Butt, and Flanged (ANSI)
- Bodies:** PVC, CPVC, PP, and PVDF
- Seats:** PTFE backed with EPDM or FKM
- Seals:** EPDM or FKM or AFLAS®‡

‡ - Trademark of Asahi Glass Co., Ltd.

Weights (kg)

Nominal Size	Socket	Flanged
inch mm	Threaded	
0.5 15	0.2	0.5
0.75 20	0.3	0.7
1 25	0.5	1.22
1.25 32	0.7	1.5
1.5 40	1.2	2
2 50	2	3.7
2.5 65	2.8	4
3 80	4.4	5.9
4 100	11	12

Cv Values

Nominal Size	Cv
inches mm	
0.5 15	14
0.75 20	29
1 25	47
1.25 32	72
1.5 40	155
2 50	190
2.5 65	365
3 80	410
4 100	680