

BALL FOOT VALVE

- INTEGRAL MOLDING WITH SCREEN INCREASES STRENGTH AT CONNECTION AREA.
- FLOW PASSAGE STRUCTURE WITH LOW FLUID RESISTANCE
- SMALL PARTS QUANTITY AND A SINGLE CONNECTION REDUCE EXTERNAL STRESS EFFECTS, ALLOWING HIGH FINISHING ACCURACY.
- LIGHTWEIGHT AND SMALL SIZE ALLOW INSTALLATION IN NARROW SPACES AND FACILITATE DISASSEMBLED CLEANING.

BASIC SPECIFICATIONS

VALVE TYPE ——— BALL FOOT VALVE

SIZE ——— 15 mm—100 mm (1/2 inch—4 inch)

BODY MATERIAL ——— **U-PVC** **C-PVC** **PP** **PVDF**

SEAL MATERIAL / SEAT — **EPDM** **FKM** etc.

CONNECTION / FLANGED — JIS5K, JIS10K, DIN, ANSI

SOCKET — JIS, DIN, ANSI

THREADED— Rc, Rp, NPT

	FLUID TEMPERATURE	MAXIMUM WORKING PRESSURE (NORMAL TEMPERATURE) MPa(kgf/cm ²)		CONNECTION METHOD		
		15 mm—50 mm	80mm—100mm	FLANGED	SOCKET	THREADED
U-PVC	0°C ~ 50°C	1.0 {10.2}	0.7 {7.1}	○	○	○
C-PVC	0°C ~ 90°C	1.0 {10.2}	0.7 {7.1}	○	○	○
PP	-20°C ~ 80°C	1.0 {10.2}	0.5 {5.1}	—	○	○
PVDF	-20°C ~100°C	1.0 {10.2}	0.7 {7.1}	—	○	○

NOTES The maximum working pressure is the value including the water hammer pressure. Be careful that the maximum working pressure is not exceeded during use.

* Concerning the allowable pressure for each temperature and material, see the technical documents at the end of this catalog.

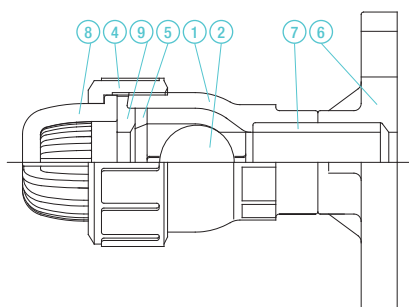
MANUAL



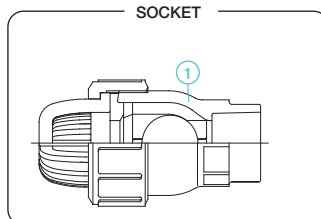
PARTS LIST

MANUAL

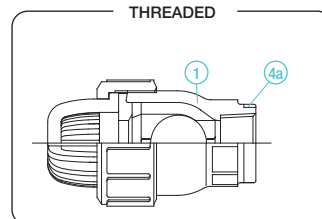
FLANGED



SOCKET



THREADED



PART NO. / NAME	QTY	MATERIAL
① BODY	1	
② BALL	1	FLANGED
④ UNION NUT	1	U-PVC, C-PVC
⑤ STOP RING (A)	1	SOCKET
⑥ TS FLANGE	1	U-PVC, C-PVC, PP, PVDF
⑦ PIPE	1	THREADED
⑧ SCREEN	1	U-PVC, C-PVC, PP, PVDF

PART NO. / NAME	QTY	MATERIAL
⑨ SEAT	1	EPDM, FKM, etc.
4a RING ⁽¹⁾	1	SUS304

NOTES (1) Used for 15 to 25 mm for body material of C-PVC and connection of threaded type. (2) Used for flanged type. (3) PP flanged type is not produced.

**PRODUCT MODEL
CODE LIST**

MANUAL

ACTUATION	TYPE	OPERATING SYSTEM	BODY MATERIAL	SEAL MATERIAL	CONNECTION	STANDARD	SIZE
V	FT	ZZ	*	*	*	*	***
V MANUAL VALVE	FT BALL FOOT	ZZ NONE	U U-PVC C C-PVC P PP F PVDF	E EPDM V FKM	S SOCKET N THREADED F FLANGED	J JIS 1 JIS10K 5 JIS5K D DIN A ANSI	015 15mm 100 100mm

NOTES

- PP and PVDF socket types are weld type.
- PVDF sockets are of DIN type only.
- For 32 mm and 65 mm flanged types, individual service may be available. Contact us for more details.
- PP and PVDF flanged types are not produced.

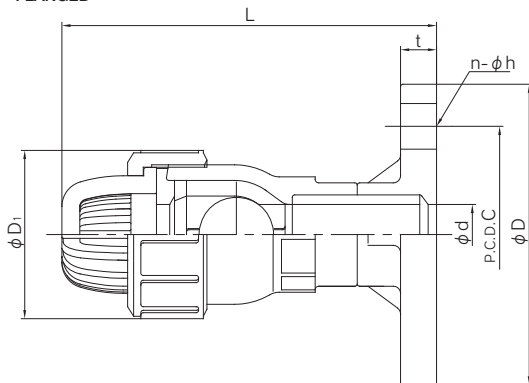
MANUAL

BALL FOOT VALVE

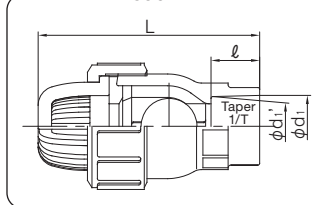
TYPE—VFTZZ

CONNECTION / FLANGED, SOCKET—JIS, DIN, ANSI THREADED—Rc, Rp, NPT

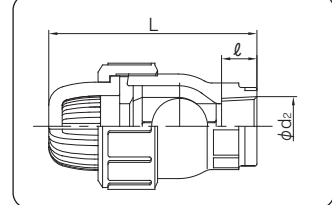
FLANGED



SOCKET



THREADED



■ JIS (Unit: mm)

mm	D ₁	d	FLANGED												SOCKET								THREADED			
			JIS5K				JIS 10K				L		t		U-PVC C-PVC				PP				d ₂	ℓ	L	
			D	C	n	h	D	C	n	h	U-PVC	C-PVC			d ₁	ℓ	1/T	L	d ₁	d ₂	ℓ	L			U-PVC C-PVC	PVDF PP
15	48	18	80	60	4	12	95	70	4	15	130	130	14		22.11	20	1/34	95	21.2	20.2	22	97	Rc 1/2	15	90	88
20	60	22	85	65	4	12	100	75	4	15	150	150	15		26.13	24	1/34	110	26.2	25.2	23	108	Rc 1/4	17	103	101
25	70	25	95	75	4	12	125	90	4	19	167	171	15		32.16	27	1/34	121	33.0	32.0	25	118	Rc 1	20	114	111
40	96	41	120	95	4	15	140	105	4	19	246	250	16		48.21	37	1/37	184	47.0	46.0	28	174	Rc 1 1/2	25	172	169
50	106	52	130	105	4	15	155	120	4	19	274	277	20		60.25	42	1/37	203	59.0	58.0	28	188	Rc 2	28	189	185
80	152	78	180	145	4	19	185	150	8	19	396	409	22		89.60	64	1/49	323	88.0	86.0	35	293	Rc 3	35	294	289
100	210	100	200	165	8	19	210	175	8	19	506	518	22		114.70	84	1/56	413	113.0	111.0	45	372	Rc 4	45	374	367

■ DIN (Unit: mm)

mm	SOCKET								THREADED			
	U-PVC C-PVC				PP PVDF				d ₂	ℓ	L	
	d ₁	ℓ	L		d ₁	d ₁ '	ℓ	L			U-PVC C-PVC	PVDF PP
15		20	16	91	19.50	19.30	14.5	89	Rp 1/2	15	90	88
20		25	19	105	24.50	24.30	16	101	Rp 3/4	17	103	101
25		32	22	116	31.50	31.30	18	111	Rp 1	20	114	111
40		50	31	178	49.45	49.20	23.5	169	Rp 1 1/2	25	172	169
50		63	38	199	62.50	62.10	27.5	187	Rp 2	28	189	184
80		90	51	310	89.20	88.85	35.5	293	Rp 3	35	294	288
100		110	61	390	109.05	108.65	41.5	368	Rp 4	45	374	366

■ ANSI (Unit: inch)

inch	mm	d	D ₁	FLANGED								SOCKET				THREADED			
				D	C	n	h	L U-PVC	t			d ₁	d ₁ '	ℓ	L	d ₂	ℓ	U-PVC C-PVC	PVDF PP
1/2	15	0.71	1.89	3.50	2.38	4	0.62	5.55	0.47			0.848	0.836	0.69	3.74	1/2-14NPT	0.59	3.54	3.46
3/4	20	0.87	2.36	3.86	2.76	4	0.62	6.42	0.51			1.058	1.046	0.72	4.17	3/4-14NPT	0.67	4.06	3.98
1	25	0.98	2.76	4.25	3.13	4	0.62	6.73	0.59			1.325	1.310	0.87	4.76	1-11 1/2 NPT	0.79	4.49	4.37
1 1/2	40	1.61	3.78	5.00	3.88	4	0.62	9.80	0.63			1.912	1.894	1.09	6.97	1 1/2-11 1/2NPT	0.98	6.77	6.65
2	50	2.05	4.17	5.98	4.74	4	0.75	10.91	0.79			2.387	2.369	1.16	7.60	2-11 1/2 NPT	1.10	7.44	7.24
3	80	3.07	5.98	7.52	6.00	4	0.75	16.10	0.87			3.516	3.492	1.87	12.09	3-8NPT	1.38	11.57	11.34
4	100	3.94	8.27	9.02	7.50	8	0.75	20.41	0.87			4.518	4.491	2.00	14.96	4-8NPT	1.77	14.72	14.41