

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}	—	○	○

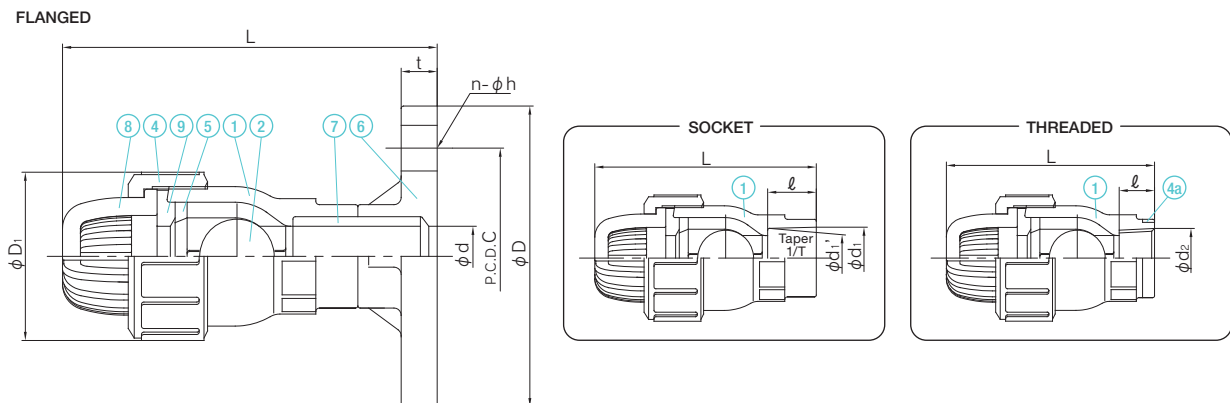
NOTES The maximum working pressure is the value including the water hammer pressure. Be careful that the maximum working pressure is not exceeded during use.

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

MANUAL



PARTS LIST MANUAL



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 10K 5 5K 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.

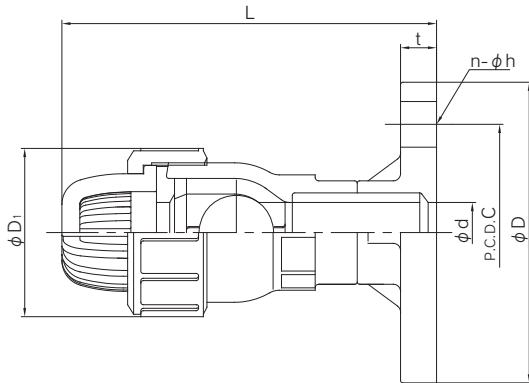
MANUAL

BALL FOOT VALVE

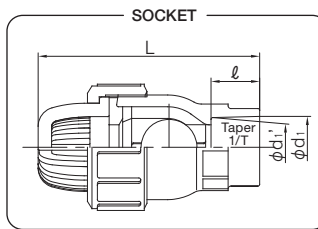
TYPE—VFTZZ

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

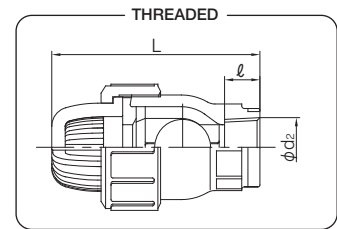
FLANGED



SOCKET



THREADED



■ JIS (Unit: mm)

mm	D ₁	d	FLANGED											SOCKET				THREADED							
			JIS5K				JIS 10K				L			U-PVC C-PVC				PP							
			D	C	n	h	D	C	n	h	U-PVC	C-PVC	t	d ₁	ℓ	1/T	L	d ₁	d ₂	ℓ	L	d ₂	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 ₁	ℓ	L	d ₁	d ₁ '	ℓ	L	d ₂	ℓ	L		
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			
								L										
				D	C	n	h	U-PVC 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 1/2 NPT	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	