

JIS ANSI/ASME/ASTM DIN



Flange

TS Socket

Operating Temperature(°C)

PVC	0 ~ 50	PP	0 ~ 80
HT	0 ~ 90	PVDF	0 ~ 100

ESLON TRUE UNION CHECK VALVE BALL TYPE

Feature

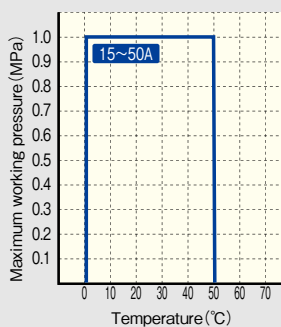
- Low pressure loss and reliable checking performance even with small differential pressure.
- Superior corrosion & chemical resistance as all plastic component for contact parts with medium.
- Easy maintenance by detaching union nut.
- Able to dismount the valves from the connected pipe by screwed off the both side of union nut.

⚠ Important Notes

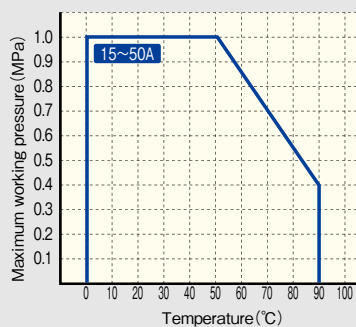
- In the condition of low flow rate or frequent flow rate fluctuation, the ball might vibrate in the body, and might cause sound or damage of valve. Esilon check valve swing type or lift type may be usable in those cases.
- Turbulent flow might disable checking by irregular ball bouncing.
- Fluid containing slurry, solid, sediment, or crystallized fluid might disable checking and sealing.
- Valve can be installed both vertically and horizontally. Match the arrow on the valve body to the flow direction when install the valve with bonnet upward.

Maximum Working Pressure - Temperature Rating

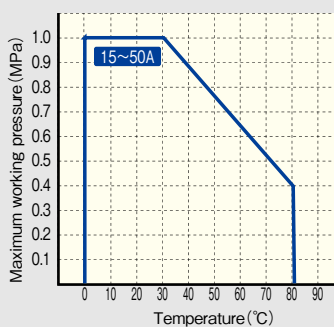
Body material : PVC



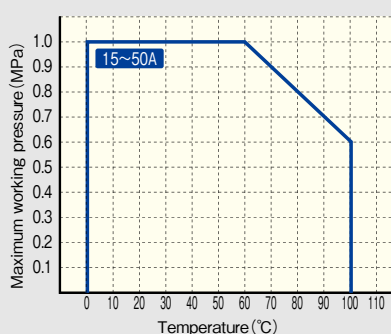
Body material : HT



Body material : PP



Body material : PVDF

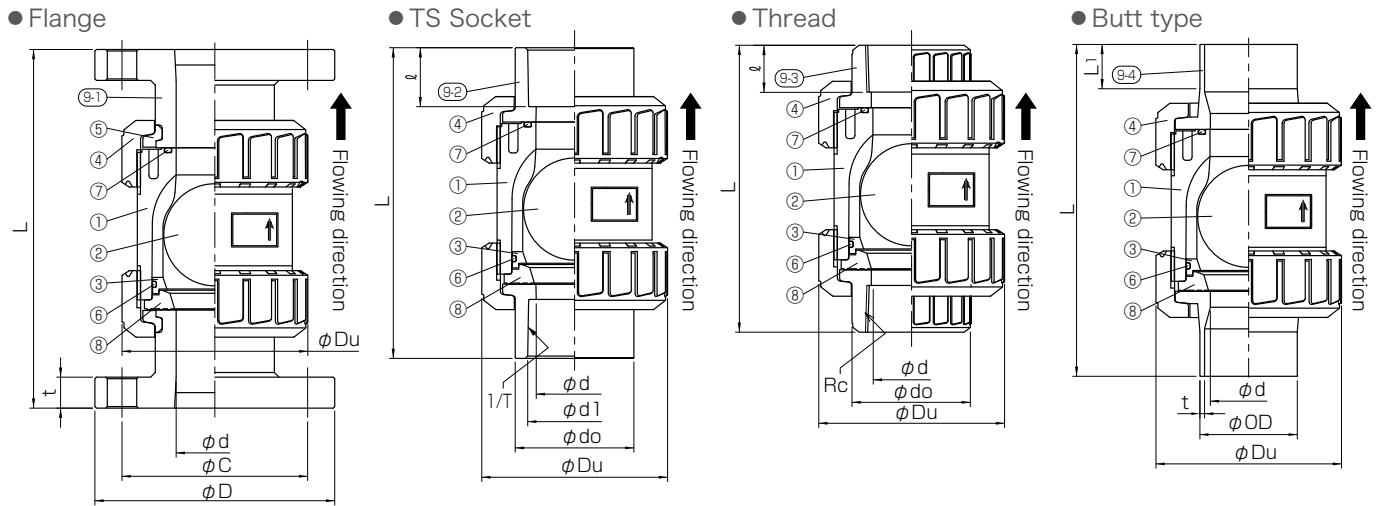


■ Minimum operating pressure (Gasket:EPDM)

		Unit : kPa					
		Size(A)					
		15	20	25	32	40	50
Vertical piping	Min.opened pressure	5			10		
	Min.closed pressure	30					
Horizontal piping	Min.opened pressure	1		2			
	Min.closed pressure	30					

※ The pressure in the above table has tolerance. It's available for PVC,HT and PVDF only.

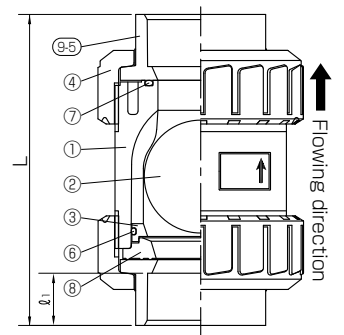
Figure(Flange Type·TS Socket Type·Thread Type·Butt Type·Socket Welding Type) —



Parts List

No.	Part Name	QTY	Material
1	Body	1	
2	Ball	1	●PVC
3	Seat Carrier	1	●HT(JIS:Brown)
4	Union nut	2	●PP
5	Set ring	2	●PVDF
6	Seat Carrier O-Ring	1	
7	Union O-ring	1	●EPDM
8	Seat	1	●FKM
9-1	Flange	2	●PVC ●HT(JIS:Brown) ●PP ●PVDF
9-2	Socket	2	●PVC ●HT(JIS:Brown)
9-3	Threaded Socket	2	●PVC ●PVDF
9-4	Butt Spigot Type	2	●PP ●PVDF
9-5	Socket Welding	2	●PP

Socket Welding



Flange Type · TS Socket Type · Butt Type · Thread Type · Socket Welding Type Unit : mm

Size			Flange													
A	B	d	φ Du	L	JIS10K				ANSI				DIN			
					φ D	φ C	n-φ h	t	φ D	φ C	n-φ h	t	φ D	φ C	n-φ h	t
15	1/2	16	49	135	95	70	4-15	14	98.0	60.5	4-16	11.5	95	65	4-14	11
20	3/4	20	59	160	100	75	4-15	14	98.0	70.0	4-16	13.0	105	75	4-14	12
25	1	25	67	170	125	90	4-19	14	108.0	79.5	4-16	14.5	115	85	4-14	14
32	1 1/4	32	81	177	135	100	4-19	16	117.5	89.0	4-16	16.0	140	100	4-18	15
40	1 1/2	40	98	205	140	105	4-19	16	127.0	98.5	4-16	17.5	150	110	4-18	16
50	2	50	120	230	155	120	4-19	20	152.0	120.5	4-19	19.5	165	125	4-18	18

Unit : mm

φ Du	TS Socket														Butt Spigot						
	JIS					ASTM					DIN				φ Du	L	L ₁	φ OD	t		
	L	φ d1	1/T	ℓ	d _o	L	φ d1	1/T	ℓ	d _o	L	φ d1	1/T	ℓ					d _o	PP	PVDF
49	101	22.3	1/37	22	33	95	21.54	1/72	22.22	33	84	20.3	1/65	16	33	48	135	30	20	1.9	1.9
59	121	26.3	1/42	25	35	108	26.87	1/85	25.40	35	96	25.3	1/80	19	35	59	141	24	25	2.3	1.9
67	125	32.3	1/43	29	44	115	33.65	1/75	28.58	44	103	32.3	1/95	22	44	65	143	24	32	2.9	2.4
81	153	38.4	1/37	32	54	134	42.42	1/84	31.75	54	124	40.3	1/115	26	54	80	154	25	40	3.7	2.4
98	169	48.5	1/38	35	66	165	48.56	1/78	34.93	66	155	50.3	1/140	31	66	96	184	24	50	4.6	3.0
120	200	60.6	1/34	38	77	185	60.63	1/83	38.10	77	186	63.3	1/175	38	77	119	213	28	63	5.8	3.0

Unit : mm

φ Du	Thread					Socket Welding		Weight (kg/unit)											
	L		ℓ		d _o	L	ℓ ₁	PVC		HT		PP		PVDF					
	PVC	PVDF	PVC	PVDF				Flange	TS,Thread	Flange	TS	Flange	Socket Welding	Butt	Flange	TS,Butt			
49	90	92	18	20	30	1/2	1/2	1/2	98	17.5	0.4	0.2	0.5	0.2	0.3	0.1	0.1	0.5	0.2
59	106	105	18	22	35	3/4	3/4	3/4	103	19.0	0.5	0.2	0.6	0.3	0.4	0.3	0.2	0.7	0.3
67	112	120	23	24	44	1	1	1	109	21.0	0.8	0.3	0.9	0.4	0.5	0.3	0.2	1.0	0.5
81	132	134	23	25	54	1 1/4	1 1/4	1 1/4	127	23.5	1.0	0.4	1.2	0.6	0.7	0.4	0.3	1.4	0.7
98	158	164	25	28	65	1 1/2	1 1/2	1 1/2	155	26.5	1.7	1.1	1.8	1.2	1.1	0.8	0.7	2.2	1.5
120	186	194	30	30	77	2	2	2	181	30.5	2.4	1.4	2.6	1.7	1.5	1.1	0.9	3.0	1.9