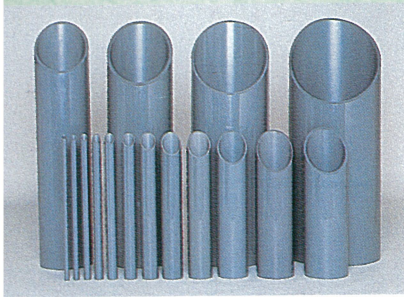
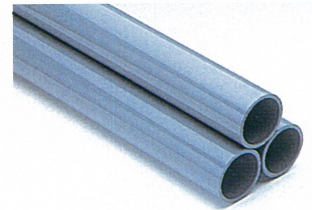


# PVC PIPE

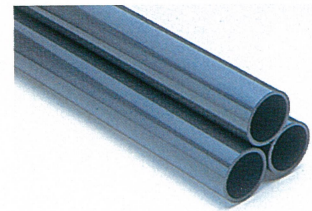


● Unplasticized Polyvinyl Chloride Pipes  
 VP JIS K6741  
 VU JIS K6741

●VP (JIS K6741) Pipe											Unit:mm
Nominal Size (mm)	Identification	Outer diameter			Thickness		Approximate Inner diameter	Length	Calculated Weight (kg/m)	HI-VP PIPE	
		Basic Dimension (mm)	Max. Min. Tolerance	Average Tolerance	Min. Dimension	Tolerance					
13	VP 13	18	±0.2	±0.2	2.2	±0.6	13	4,000	0.174	●	
16	VP 16	22	±0.2	±0.2	2.7	±0.6	16	4,000	0.256	●	
20	VP 20	26	±0.2	±0.2	2.7	±0.6	20	4,000	0.310	●	
25	VP 25	32	±0.2	±0.2	3.1	±0.8	25	4,000	0.448	●	
30	VP 30	38	±0.3	±0.2	3.1	±0.8	31	4,000	0.542	●	
40	VP 40	48	±0.3	±0.2	3.6	±0.8	40	4,000	0.791	●	
50	VP 50	60	±0.4	±0.2	4.1	±0.8	51	4,000	1.122	●	
65	VP 65	76	±0.5	±0.3	4.1	±0.8	67	4,000	1.445	●	
75	VP 75	89	±0.5	±0.3	5.5	±0.8	77	4,000	2.202	●	
100	VP100	114	±0.6	±0.4	6.6	±1.0	100	4,000	3.409	●	
125	VP125	140	±0.8	±0.5	7.0	±1.0	125	4,000	4.464	●	
150	VP150	165	±1.0	±0.5	8.9	±1.4	146	4,000	6.701	●	
200	VP200	216	±1.3	±0.7	10.3	±1.4	194	4,000	10.129	●	
250	VP250	267	±1.6	±0.9	12.7	±1.8	240	4,000	15.481	●	
300	VP300	318	±1.9	±1.0	15.1	±2.2	286	4,000	21.962	●	
350	VM350	370		±1.2	14.3	±2.0	339	4,000	24.378	—	
400	VM400	420		±1.3	16.2	±2.2	385	4,000	31.294	—	



VP-Straight Pipe



HI-VP-Straight Pipe

●VU (JIS K6741) Pipe											Unit:mm
Nominal Size (mm)	Identification	Outer diameter		Thickness		Approximate Inner diameter	Length	Calculated Weight (kg/m)			
		Basic Dimension (mm)	Average Tolerance	Min. Dimension	Tolerance						
40	VU 40	48	±0.2	1.8	±0.4	44	4,000	0.413			
50	VU 50	60	±0.2	1.8	±0.4	56	4,000	0.521			
65	VU 65	76	±0.3	2.2	±0.6	71	4,000	0.825			
75	VU 75	89	±0.3	2.7	±0.6	83	4,000	1.159			
100	VU100	114	±0.4	3.1	±0.8	107	4,000	1.737			
125	VU125	140	±0.5	4.1	±0.8	131	4,000	2.739			
150	VU150	165	±0.5	5.1	±0.8	154	4,000	3.941			
200	VU200	216	±0.7	6.5	±1.0	202	4,000	6.572			
250	VU250	267	±0.9	7.8	±1.2	250	4,000	9.758			
300	VU300	318	±1.0	9.2	±1.4	298	4,000	13.701			
350	VU350	370	±1.2	10.5	±1.4	348	4,000	18.051			
400	VU400	420	±1.3	11.8	±1.6	395	4,000	23.059			
450	VU450	470	±1.5	13.2	±1.8	442	4,000	28.875			
500	VU500	520	±1.6	14.6	±2.0	489	4,000	35.346			

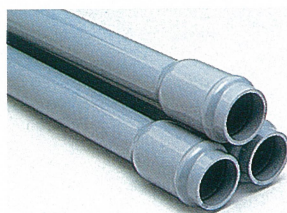
Notes:

- 1.The maximum outer diameter (minimum outer diameter) is the largest(smallest) of outer diameter measurement at a location.
- 2.The average outer diameter is the average for outer diameter measurements made in a direction other than two parallel directions or a circumference measurement divided by 3.142.
- 3.The mass per unit length (m) in the table, which was calculated using a specific gravity of 1.43, is only for information, not part of the standards.
- 4.The length tolerance is ± 10mm.
- 5.Pipe VM350 400mm long conforms to the AS24 standard.
- 6.Pipe HI-VP conform to the JIS K6742 standard.

※ Water Pipes (JIS K6742) are available.



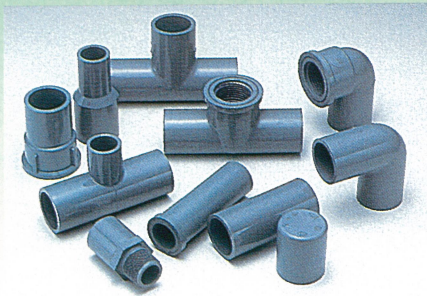
Single-adhesion receptacle straight Pipe



Single-rubber ring receptacle straight Pipe

# TS FITTINGS

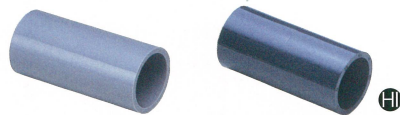
## ● TS FITTING(JIS K6743) (PVC:13 to 150mm,HI-PVC:13 to150mm)



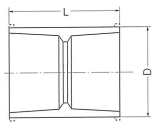
### SPECIFICATIONS

<b>Elbow</b>	(L)	13 - 150mm
<b>Tee</b>	(T)	13 - 150×125mm
<b>Water Feeding Elbow</b>	(FL)	13 - 25mm
<b>Metal-containing Water Feeding Elbow</b>		13 - 25mm
<b>Water Feeding Socket</b>	(FS)	13 - 25mm
<b>Metal-containing Water Feeding Socket</b>		13 - 25mm
<b>Water Feeding Tee</b>	(FT)	13 - 25×20mm
<b>Metal-containing Water Feeding Tee</b>		13 - 25×20mm
<b>Valve Socket</b>	(VS)	13 - 150mm
<b>Union Socket</b>	(US)	13 - 50mm
<b>Socket</b>	(S)	13 - 150×125mm
<b>Cap</b>	(C)	13 - 150mm

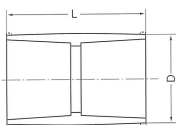
## ● Socket



Nomal Size 13mm~50mm



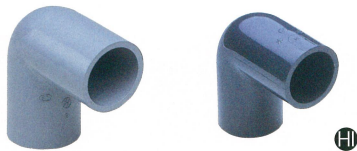
Nomal Size 65mm~150mm



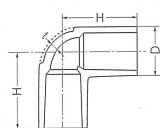
Nomal Size	D	L ±4.0	HI
13	24.0	57	●
16	29.0	67	●
20	33.0	77	●
25	40.0	87	●
30	46.0	95	●
40	57.0	117	●
50	70.0	133	●
※65	87.0	145	●
75	102.0	155	●
100	130.0	200	●
※125	157.0	240	●
150	186.0	300	●

※AS-Standard

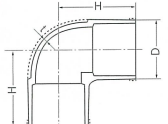
## ● Elbow



Nomal Size 13mm~50mm

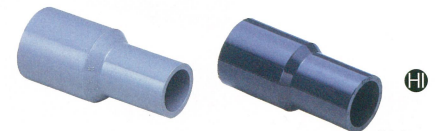


Nomal Size 65mm~150mm

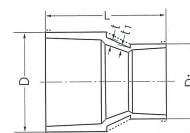


Nomal Size	D	t	H ±5%	H1	HI
13	24.0	3.0	36	36	●
16	29.0	3.5	43	43	●
20	33.0	3.5	50	50	●
25	40.0	4.0	58	58	●
30	46.0	4.0	65	65	●
40	57.0	4.5	82	82	●
50	70.0	5.0	96	96	●
※65	87.0	6.6	110	110	●
※75	102.0	8.0	120	120	●
※100	130.0	10.0	153	152	●
※125	157.0	11.0	188	187	●
※150	186.0	13.0	230	230	●

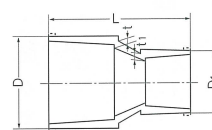
## ● Reducing Socket



Nomal Size 13mm~50mm



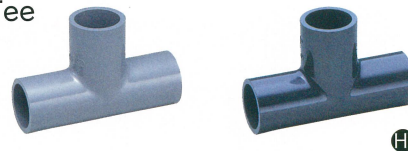
Nomal Size 65mm~150mm



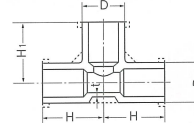
Nomal Size	D	t	D <sub>1</sub>	t <sub>1</sub>	L ±4.0	HI
16×13	29.0	3.5	24.0	3.0	61	●
20×13	33.0	3.5	24.0	3.0	68	●
20×16	33.0	3.5	29.0	3.5	71	●
25×13	40.0	4.0	24.0	3.0	86	●
25×16	40.0	4.0	29.0	3.5	85	●
25×20	40.0	4.0	33.0	3.5	84	●
30×20	46.0	4.0	33.0	3.5	93	●
30×25	46.0	4.0	40.0	4.0	93	●
※40×20	57.0	4.5	33.0	3.5	113	●
40×25	57.0	4.5	40.0	4.0	114	●
40×30	57.0	4.5	46.0	4.0	114	●
※50×20	70.0	5.0	33.0	3.5	116	●
※50×25	70.0	5.0	40.0	4.0	140	●
50×30	70.0	5.0	46.0	4.0	136	●
50×40	70.0	5.0	57.0	4.5	136	●
※65×40	87.0	6.6	57.0	4.5	145	●
※65×50	87.0	6.6	70.0	5.0	149	●
75×40	102.0	8.0	57.0	5.0	153	●
75×50	102.0	8.0	70.0	5.0	165	●
※75×65	102.0	8.0	87.0	6.6	159	●
100×75	130.0	10.0	102.0	8.0	190	●
※125×100	157.0	11.0	130.0	10.0	229	●
150×100	186.0	13.0	130.0	10.0	295	●
※150×125	186.0	13.0	157.0	11.0	272	●

※AS-Standard

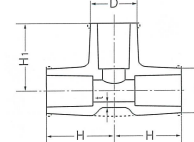
## ● Tee



Nomal Size 13mm~50mm



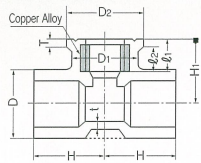
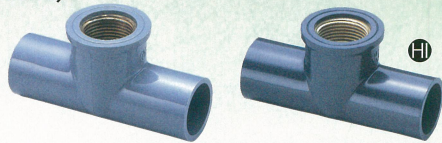
Nomal Size 65mm~150mm



Nomal Size	D	t	H ±5%	H1	HI
13	24.0	3.0	36	36	●
16	29.0	3.5	43	43	●
20	33.0	3.5	50	50	●
25	40.0	4.0	58	58	●
30	46.0	4.0	65	65	●
40	57.0	4.5	82	82	●
50	70.0	5.0	96	96	●
※65	87.0	6.6	110	110	●
75	102.0	8.0	120	120	●
100	130.0	10.0	152	152	●
※125	157.0	11.0	187	187	●
150	186.0	13.0	230	230	●

# TS FITTINGS

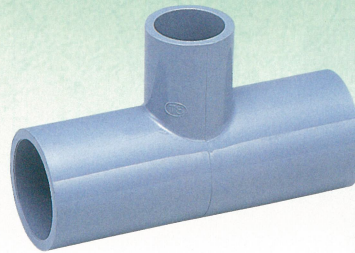
## ● Faucet Tee (with Metal Insert)



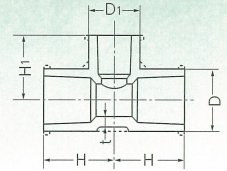
Normal Size	D	t	D <sub>1</sub>	D <sub>2</sub>	l <sub>1</sub> <sup>+0.10</sup> <sub>-0.10</sub>	l <sub>2</sub> <sup>+0.10</sup> <sub>-0.10</sub>	T	H <sub>1</sub> <sup>+0.10</sup> <sub>-0.10</sub>	H <sub>1</sub> <sup>+0.10</sup> <sub>-0.10</sub>	Fevale THD Size	HI
13	24.0	3.0	30	34	17	14	4	38	29	Rp1/2	●
20	33.0	3.5	37	42	19	16	4	51	36	Rp3/4	●
25	40.0	4.0	46	52	21	18	5	59	42	Rp1	●
16×13	29.0	3.5	30	34	17	14	4	43	32	Rp1/2	●
20×13	33.0	3.5	30	34	17	14	4	47	34	Rp1/2	●
25×13	40.0	4.0	30	34	17	14	4	52	38	Rp1/2	●
25×20	40.0	4.0	37	42	19	16	4	56	40	Rp3/4	●

(Unit:mm)

## ● Reducing Tee



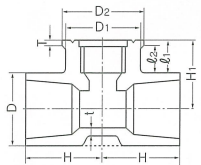
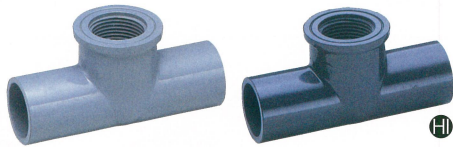
Normal Size 13mm~50mm



(Unit:mm)

Normal Size	D	t	H	D <sub>1</sub>	H <sub>1</sub>	HI
16×13	29.0	3.5	41	24.0	38	●
20×13	33.0	3.5	46	24.0	40	●
20×16	33.0	3.5	48	29.0	45	●
25×13	40.0	4.0	51	24.0	43	●
25×16	40.0	4.0	53	29.0	48	●
25×20	40.0	4.0	55	33.0	53	●
30×13	46.0	4.0	55	24.0	46	●
30×16	46.0	4.0	57	29.0	51	●
30×20	46.0	4.0	59	33.0	56	●
30×25	46.0	4.0	62	40.0	61	●
40×13	57.0	4.5	66	24.0	52	●
40×16	57.0	4.5	68	29.0	57	●
40×20	57.0	4.5	70	33.0	62	●
40×25	57.0	4.5	73	40.0	67	●
40×30	57.0	4.5	76	46.0	71	●
50×13	70.0	5.0	74	24.0	58	●
50×16	70.0	5.0	76	29.0	63	●
50×20	70.0	5.0	78	33.0	68	●
50×25	70.0	5.0	81	40.0	73	●
50×30	70.0	5.0	84	46.0	77	●
50×40	70.0	5.0	90	57.0	88	●

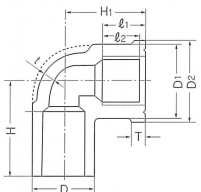
## ● Faucet Tee



(Unit:mm)

Normal Size	D	t	D <sub>1</sub>	D <sub>2</sub>	l <sub>1</sub> <sup>+0.10</sup> <sub>-0.10</sub>	l <sub>2</sub> <sup>+0.10</sup> <sub>-0.10</sub>	T	H <sub>1</sub> <sup>+0.10</sup> <sub>-0.10</sub>	H <sub>1</sub> <sup>+0.10</sup> <sub>-0.10</sub>	Fevale THD Size	HI
□13	24.0	3.0	30	34	17	14	4	38	29	Rp1/2	●
□20	33.0	3.5	37	42	19	16	4	51	36	Rp3/4	●
□25	40.0	4.0	46	52	21	18	5	59	42	Rp1	●
□16×13	29.0	3.5	30	34	17	14	4	43	32	Rp1/2	●
□20×13	33.0	3.5	30	34	17	14	4	47	34	Rp1/2	●
□25×13	40.0	4.0	30	34	17	14	4	52	38	Rp1/2	●
□25×20	40.0	4.0	37	42	19	16	4	56	40	Rp3/4	●

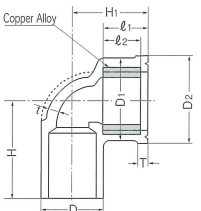
## ● Faucet Elbow



(Unit:mm)

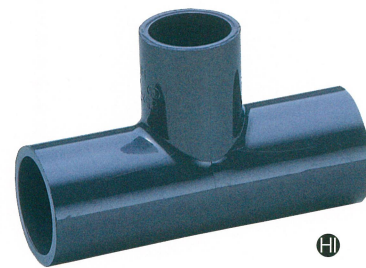
Normal Size	D	t	D <sub>1</sub>	D <sub>2</sub>	l <sub>1</sub> <sup>+0.10</sup> <sub>-0.10</sub>	l <sub>2</sub> <sup>+0.10</sup> <sub>-0.10</sub>	T	H <sub>1</sub> <sup>+0.10</sup> <sub>-0.10</sub>	H <sub>1</sub> <sup>+0.10</sup> <sub>-0.10</sub>	Fevale THD Size	HI
□13	24.0	3.0	30	34	17	14	4	38	29	Rp1/2	●
□16	29.0	3.5	30	34	17	14	4	43	32	Rp1/2	●
□20	33.0	3.5	37	42	19	16	4	51	36	Rp3/4	●
□25	40.0	4.0	46	52	21	18	5	59	40	Rp1	●

## ● Faucet Elbow (with Metal Insert)

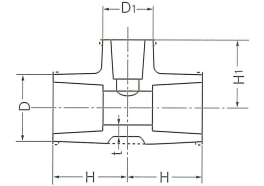


(Unit:mm)

Normal Size	D	t	D <sub>1</sub>	D <sub>2</sub>	l <sub>1</sub> <sup>+0.10</sup> <sub>-0.10</sub>	l <sub>2</sub> <sup>+0.10</sup> <sub>-0.10</sub>	T	H <sub>1</sub> <sup>+0.10</sup> <sub>-0.10</sub>	H <sub>1</sub> <sup>+0.10</sup> <sub>-0.10</sub>	Fevale THD Size	HI
13	24.0	3.0	30	34	17	14	4	38	29	Rp1/2	●
16×13	29.0	3.0	30	34	17	14	4	43	32	Rp1/2	●
20	33.0	3.5	37	42	19	16	4	51	36	Rp3/4	●
25	40.0	4.0	46	52	21	18	5	59	40	Rp1	●
20×13	33.0	3.5	30	34	17	14	4	47	33	Rp1/2	●



Normal Size 65mm~150mm

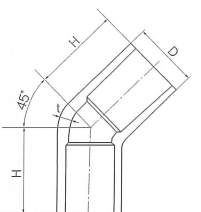


(Unit:mm)

Normal Size	D	t	H <sub>1</sub> <sup>+0.10</sup> <sub>-0.10</sub>	D <sub>1</sub>	H <sub>1</sub> <sup>+0.10</sup> <sub>-0.10</sub>	HI
※65×40	87.0	6.6	100	57.0	95	●
※65×50	87.0	6.6	101	70.0	104	●
75×25	102.0	8.0	93	40.0	88	●
75×40	102.0	8.0	100	57.0	102	●
75×50	102.0	8.0	105	70.0	110	●
※75×65	102.0	8.0	113	87.0	117	●
100×50	130.0	10.0	125	70.0	122	●
100×75	130.0	10.0	140	102.0	132	●
※125×75	157.0	11.0	160	102.0	147	●
※125×100	157.0	11.0	173	130.0	167	●
150×75	186.0	13.0	195	102.0	158	●
150×100	186.0	13.0	208	130.0	182	●
※150×125	186.0	13.0	217	157.0	201	●

※AS-Standard

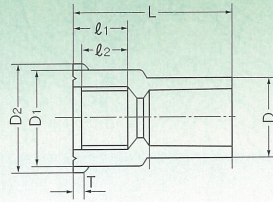
## ● 45 Elbow



(Unit:mm)

Normal Size	D	t	H <sub>1</sub> <sup>+0.10</sup> <sub>-0.10</sub>	HI
20	33.0	3.5	44	●
25	40.0	4.0	51	●

● Faucet Socket

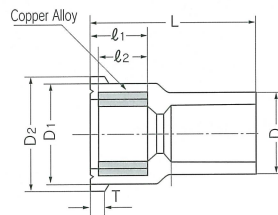


(Unit:mm)

Nomal Size	D	D <sub>1</sub>	D <sub>2</sub>	l <sub>1</sub>	l <sub>2</sub> ±1.0	T	L <sup>+5.0</sup> <sub>-1.0</sub>	Female THD Size	HI
□13	24.0	30	34	17	14	4	47	Rp1/2	●
□16	29.0	30	34	17	14	4	52	Rp1/2	●
□20	33.0	37	42	19	16	4	59	Rp3/4	●
□25	40.0	46	52	21	18	5	68	Rp1	●

□ASAHI AV Standard

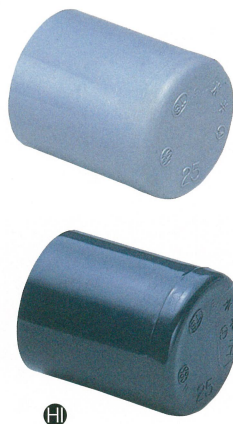
● Faucet Socket (with Metal Insert)



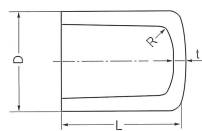
(Unit:mm)

Nomal Size	D	D <sub>1</sub>	D <sub>2</sub>	l <sub>1</sub>	l <sub>2</sub> ±1.0	T	L <sup>+5.0</sup> <sub>-1.0</sub>	Female THD Size	HI
13	24.0	30	34	17	14	4	47	Rp1/2	●
16×13	29.0	30	34	17	14	4	52	Rp1/2	●
20	33.0	37	42	19	16	4	59	RD3/4	●
25	40.0	46	52	21	18	5	68	Rp1	●
20×13	33.0	30	36	17	14	4	57	Rp1/2	●

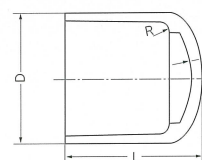
● Cap



Nomal Size 13~50mm



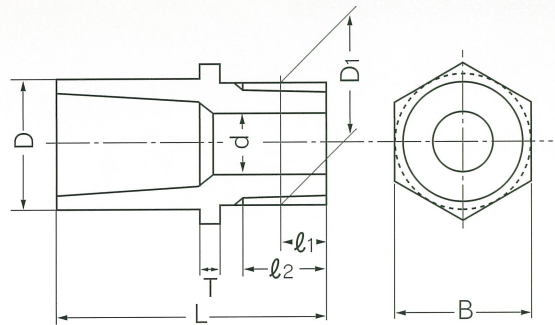
Nomal Size 65~150mm



(Unit:mm)

Nomal Size	D	t	L <sup>+5.0</sup> <sub>-1.0</sub>	HI
13	24.0	3.0	29.0	●
16	29.0	3.5	33.5	●
20	33.0	3.5	38.5	●
25	40.0	4.0	44.0	●
30	46.0	4.0	48.0	●
40	57.0	4.5	59.5	●
50	70.0	5.0	68.0	●
※65	87.0	6.6	96.0	●
75	102.0	8.0	105.0	●
100	130.0	10.0	138.0	●
150	186.0	13.0	205.0	●

● Valve Socket

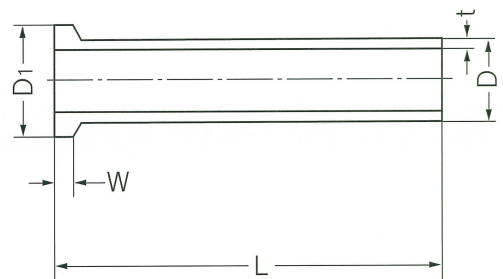
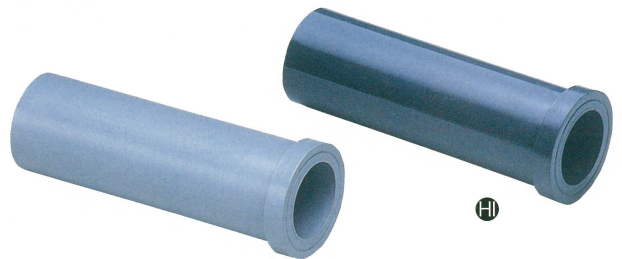


(Unit:mm)

Nomal Size	D	d	Male THD Size	Gauge Dimention D <sub>1</sub>	Number of threads (Per 25.4mm)	Position of gauge diameter l <sub>1</sub>	l <sub>2</sub> (Min)	T	L <sup>+5.0</sup> <sub>-1.0</sub>	B	HI
※ 10	21.0	10	3/8	16.662	19	6.35	12	6	43	21	—
13	24.0	13	1/2	20.955	14	8.16	13.16	6	50	24	●
16	29.0	13	1/2	20.955	14	8.20	15	6	54	29	●
20	33.0	18	3/4	26.441	14	9.53	14.53	8	64	33	●
25	40.0	23	1	33.249	11	10.39	16.79	8	71	40	●
30	46.0	31	1 1/4	41.910	11	12.70	19.10	10	80	46	●
40	57.0	37	1 1/2	47.803	11	12.70	19.10	10	92	57	●
50	70.0	48	2	59.614	11	15.88	23.38	12	106	70	●
□ 65	87.0	62	2 1/2	75.184	11	17.46	30	15	118	87	●
□ 75	102.0	72	3	87.884	11	20.64	34	16	127	102	●
□100	130.0	96	4	113.030	11	25.40	40	18	157	130	●
□125	157.0	119	5	138.430	11	28.58	44	20	186	157	—
□150	186.0	140	6	163.830	11	28.58	44	25	220	186	—

□ASAHI AV Standard

● Union Socket



(Unit:mm)

Nomal Size	D	t	D <sub>1</sub>	W	L <sup>+5.0</sup> <sub>-1.0</sub>	HI
13	18.0	2.5	23.0	5	80	●
16	22.0	3.0	27.5	5	85	●
20	26.0	3.0	29.5	6	90	●
25	32.0	3.5	36.5	7	100	●
30	38.0	3.5	42.0	8	110	●
40	48.0	4.0	53.0	8	120	●
50	60.0	4.5	71.0	9	130	●