



Pipes & Fittings

Strength Source Manufacturer



GUANGDONG QEEHUA INDUSTRY EQUIPMENT CO., LTD.

Valves/Industrial Pipelines / Pipe Fittings

Industrial materials such as UPVC, CPVC, PPH, and PVDF.

Corrosion-Resistant

Acid And Alkali
Resistance

High-Temperature
-Resistant

Impact-Resistance

Not Prone To
Deformation

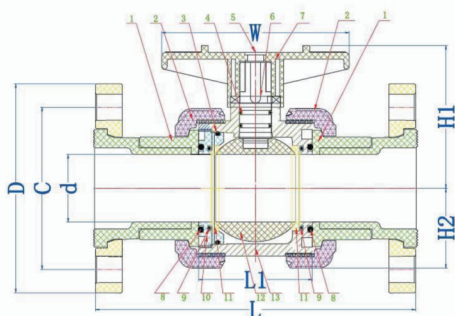
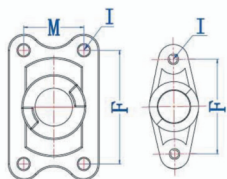
Not Prone To
Scaling



Valve Series

1. UPVC、CPVC、PPH Flange Type Double Union Ball Valve

Conform To: DIN ANSI JIS CNS Standards.



No.	Name	Material	Quantity	Unit
3\4\8\9	O-Ring	EPDM / VITON	7	PCS
01	Socket	UPVC / CPVC / PPH	2	PCS
02	Nut	UPVC / CPVC / PPH	2	PCS
05	Mark	ABS	1	PCS
06	Rod	UPVC / CPVC / PPH	1	PCS
07	Handle	ABS	1	PCS
10	Liner	UPVC / CPVC / PPH	1	PCS
11	Leak-Proof Ring	PTFE	2	PCS
12	Ball	UPVC / CPVC / PPH	1	PCS
13	Body	UPVC / CPVC / PPH	1	PCS
14	Flange Clamp	UPVC / CPVC / PPH	2	PCS

UNIT: MM

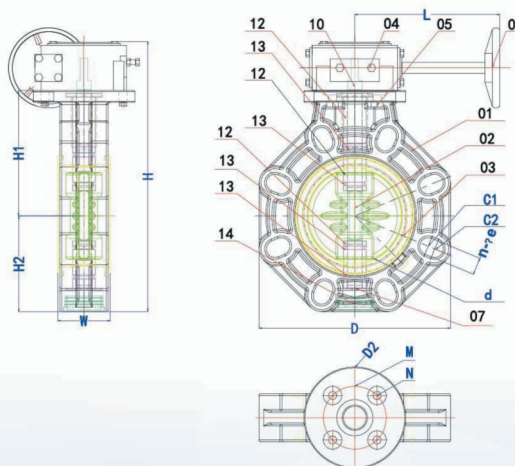
SIZE	d	C				D	L		L1	W	H1	H2	F	M	I	n-φ e
		UPVC/CPVC			PPH		UPVC/ CP	PPH								
		ANSI	JIS	DIN	DIN											
1/2" (15)	15	60.5	70.0	65.0	65.0	95.0	152.0	160.0	52.0	84.0	52.5	27.5	31.0	—	M6	4-15
3/4" (20)	20	70.0	75.0	75.0	75.0	105.0	163.0	160.0	54.0	90.0	59.0	32.0	33.0	—	M6	4-15
1" (25)	25	79.5	90.0	85.0	85.0	125.0	185.0	205.0	62.0	106.0	67.5	37.3	40.0	—	M6	4-19
1-1/4" (32)	32	89.0	100.0	100.0	100.0	140.0	202.0	235.0	70.0	116.0	77.5	42.8	52.0	—	M8	4-19
1-1/2" (40)	40	98.5	105.0	110.0	110.0	150.0	215.0	225.0	79.5	128.0	90.0	50.0	52.0	—	M8	4-19
2" (50)	50	120.7	120.0	125.0	125.0	165.0	245.0	245.0	85.0	140.0	106.0	60.0	70.0	—	M8	4-19
2-1/2" (65)	63	139.7	140.0	145.0	145.0	185.0	345.0	378.0	133.0	198.0	136.5	76.0	84.0	45.0	M10	4-19
3" (80)	75	152.0	150.0	160.0	160.0	200.0	380.0	425.0	146.0	218.0	150.0	86.0	84.0	45.0	M10	8-19
4" (100)	90	190.5	175.0	180.0	180.0	228.0	433.0	490.0	160.0	235.0	166.0	98.5	121.0	49.0	M12	8-19

2. UPVC、CPVC、 PPH Turbine Type Butterfly Valves

Conform To: DIN ANSI JIS CNS Standards.



No.	Name	Material	Quantity	Unit
01	Body	UPVC/CPVC/PPH	1	PCS
02	Valve Plate	UPVC/CPVC/PPH	1	PCS
03	Gasket	EPDM/VITON	1	PCS
04	Turbo Body	FC20	1	PCS
05	Bolt	SUS304	4	PCS
06	Handle	FC20	1	PCS
07	Screw	SUS304	1	PCS
10	Rotating Shaft	SUS304/316	1	PCS
12	Shaft Sleeve	PP	3	PCS
13	O-Ring	EPDM/VITON	6	PCS
14	Bottom Cover	PP	1	PCS



UNIT: MM

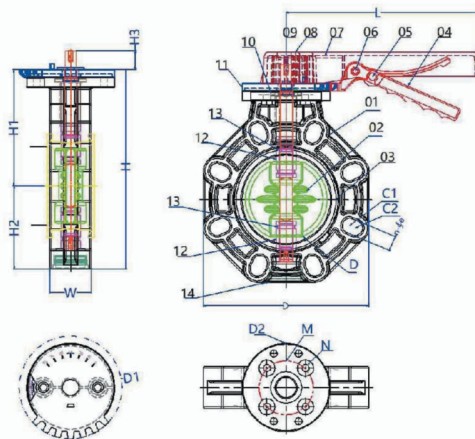
SIZE	d	C1	C2	H	H1	H2	W	D	D2	M	N	L	n- ϕ e		Operating Torque (N. M)
													JIS	DIN/ANSI	
2" (50)	65	120	125	210	120	81	48	156	112	70	9	165	4-19		18
2-1/2" (65)	65	139	145	210	120	81	48	156	112	70	9	165	4-19		18
3" (80)	80	150	160	242	136	96	50	190	112	70	9	165	8-19		20
4" (100)	102	175	191	305	148	107	53	211	112	70	9	165	8-19		30
5" (125)	126	210	216	333	164	118	66	238	112	70	9	165	8-23		33
6" (150)	148	239	242	372	180	132	72	263	136	70/102	11	215	8-23		48
8" (200-225)	195	290	298	443	205	167	72	335	136	102	11	215	12-23	8-23	80
10" (250-280)	245	335	362	585	294	227	114	453	136	102	11	215	12-26		120
12" (315)	295	400	432	616	306	239	114	477	136	102	11	215	14-26	12-26	150

3. UPVC、CPVC、PPH HANDLE TYPE BUTTERFLY VALVES

Conform To: DIN ANSI JIS CNS Standards.



No.	Name	Material	Quantity	Unit
01	Body	UPVC/CPVC/PPH	1	PCS
02	Valve Disc	UPVC/CPVC/PPH	1	PCS
03	Gasket	EPDM/VITON	1	PCS
04	Switch Grip	POM	1	PCS
05	Safety Pin	POM	1	PCS
06	Pin	SUS304	1	PCS
07	Handle	ABS	1	PCS
08	Mark	ABS	1	PCS
09	Screw	SUS304	4	PCS
10	Rotating Shaft	SUS304/316	1	PCS
11	Turntable	PVC-U/PP	1	PCS
12	Bushing	PP	3	PCS
13	O - Ring	EPDM/VITON	6	PCS
14	Bottom Cover	PP	1	PCS

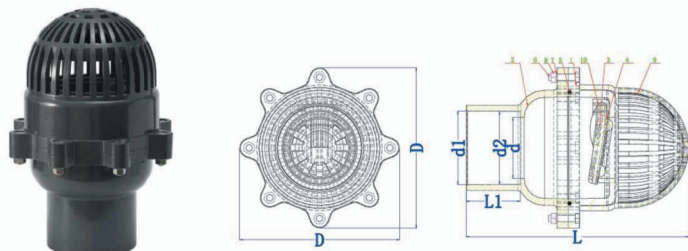


UNIT: MM

SIZE	d	C1	C2	H	H1	H2	H3	W	D	D1	D2	M	N	L	n-φe		Operating torque (N.M)
															JIS	DIN/ANSI	
2" (50)	65	120	125	201	120	80	23	48	160	130.8	112	70	9	165	4-19		18
2-1/2" (65)	65	139	145	201	120	86	23	48	172	130.8	112	70	9	165	4-19		18
3" (80)	80	150	160	232	136	96	23	50	190	130.8	112	70	9	165	8-19		20
4" (100)	102	175	191	293	148	107	23	53	211	130.8	112	70	9	165	8-19		30
5" (125)	126	210	216	323	164	118	23	66	238	130.8	112	70	9	165	8-23		33
6" (150)	148	239	242	362	180	132	30	72	263	155	136	102	11	210	8-23		48
8" (200)	195	290	298	435	217	167	33	72	335	155	136	102	11	210	12- 23	8-23	80

4. UPVC、CPVC Foot Valves

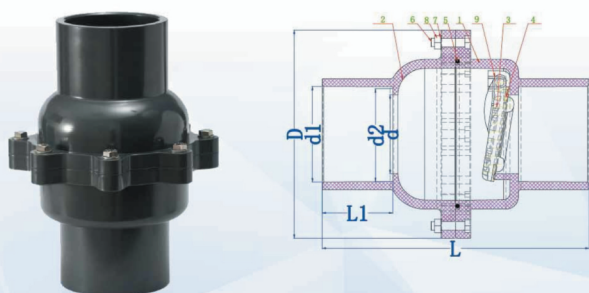
Conform To: DIN ANSI JIS CNS Standards.



No.	Name	Material	Quantity	Unit
01	Lower Body	UPVC/CPVC	1	PCS
02	Upper Body	UPVC/CPVC	1	PCS
03	Valve Disc	UPVC/CPVC	1	PCS
04	Gasket	EPDM	1	PCS
05	O-Ring	EPDM	1	PCS
06	Bolt	SUS304	Subject To The Model (8-12)	PCS
07	Bolt Gasket	SUS304	Subject To The Model (8-12)	PCS
08	Nut	SUS304	Subject To The Model (8-12)	PCS
09	Mesh Cover	UPVC/CPVC	1	PCS
10	Fastener	UPVC/CPVC	2	PCS

UNIT: MM

SIZE	d	d1				d2				D	L	L1
		ANSI	DIN	JIS	CNS	ANSI	DIN	JIS	CNS			
4" (100)	95	114.76	110.45	114.7	115.00	114.10	109.90	113.98	113.80	250.00	348.00	84.50
5" (125)	125	141.81	140.50	140.8	141.00	141.00	140.20	140.10	139.70	265.00	410.00	85.00
6" (150)	150	168.83	160.50	166.00	166.20	168.00	160.20	164.70	165.30	290.00	445.00	86.50



JOINT END: SOCKET (ANSI /DIN / JIS/ CNS)
THREADED (PT/NPT/BSPP)

WORKING PRESSURE: 150PSI

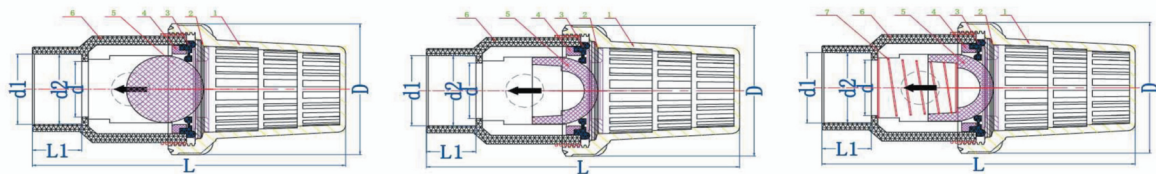
No.	Name	Material	Quantity	Unit
01	Lower Body	UPVC / CPVC	1	PCS
02	Upper Body	UPVC / CPVC	1	PCS
03	Valve Disc	UPVC / CPVC	1	PCS
04	Gasket	EPDM / VITON	1	PCS
05	O-Ring	EPDM / VITON	1	PCS
06	Bolt	SUS304	Subject To The Model (8-12)	PCS
07	Bolt Gasket	SUS304	Subject To The Model (8-12)	PCS
08	Nut	SUS304	Subject To The Model (8-12)	PCS
09	Clamp	UPVC / CPVC	2	PCS

UNIT: MM

SIZE	d	d1				d2				D	L	L1
		ANSI	DIN	JIS	CNS	ANSI	DIN	JIS	CNS			
4" (100)	95	114.76	110.40	114.70	115.00	114.10	110.10	113.98	113.80	250.00	318.00	84.00
5" (125)	125	141.81	140.50	140.8	141.00	141.00	140.20	140.10	139.70	268.00	328.00	76.50
6" (150)	150	168.83	160.50	166.00	166.20	168.00	160.10	164.70	165.30	302.00	370.00	86.00

5. UPVC、CPVC、 PPH Foot Valves

Conform To: DIN ANSI JIS CNS Standards.



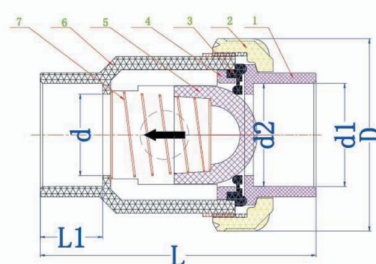
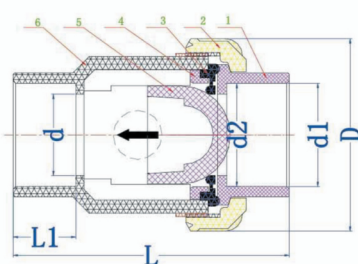
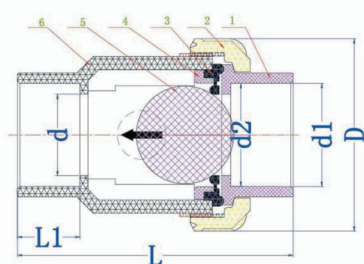
No.	Name	Material	Quantity	Unit	No.	Name	Material	Quantity	Unit
01	Valve Cover	UPVC / CPVC / PPH	1	PCS	01	Valve Cover	UPVC / CPVC / PPH	1	PCS
02	Bottom Valve Gasket	UPVC / CPVC / PPH	1	PCS	02	Bottom Valve Gasket	UPVC / CPVC / PPH	1	PCS
03	Gasket	EPDM / VITON	1	PCS	03	Gasket	EPDM / VITON	1	PCS
04	Gasket	UPVC / CPVC / PPH	1	PCS	04	Gasket	UPVC / CPVC / PPH	1	PCS
05	Ball	UPVC / CPVC / PPH	1	PCS	05	Ball	UPVC / CPVC / PPH	1	PCS
06	Body	UPVC / CPVC / PPH	1	PCS	06	Body	UPVC / CPVC / PPH	1	PCS
					07	Spring	SUS304	1	PCS

UNIT: MM

SIZE	d	d1					d2					D	L	L1
		UPVC/CPVC				PPH	UPVC/CPVC				PPH			
		ANSI	DIN	JIS	CNS	DIN	ANSI	DIN	JIS	CNS	DIN			
1/2" (15)	15	21.40	20.25	22.30	22.30	19.30	21.25	20.05	21.85	21.85	19.00	54.00	91.00	23.00
3/4" (20)	20	26.75	25.25	26.30	26.30	24.10	26.58	25.05	25.85	25.85	23.80	63.00	106.50	26.00
1" (25)	25	33.52	32.25	32.33	34.50	31.00	33.28	32.05	31.85	33.90	30.70	73.50	125.00	29.00
1-1/4" (32)	32	42.28	40.25	38.43	42.50	39.00	42.05	40.05	37.85	41.90	38.60	84.50	141.00	33.00
1-1/2" (40)	40	48.40	50.25	48.46	48.46	49.00	48.12	50.05	47.75	47.75	48.60	98.00	150.50	35.50
2" (50)	50	60.45	63.25	60.56	60.56	61.90	60.18	63.05	59.75	59.75	61.40	119.00	169.50	38.50
2-1/2" (65)	63	73.30	75.25	76.60	76.60	73.60	72.85	75.05	75.87	75.87	72.30	150.00	295.00	64.50
3" (80)	75	89.25	90.35	89.60	89.60	88.30	88.70	90.05	88.83	88.83	86.90	169.00	335.00	70.00

6. UPVC、CPVC、 PPH Single Union Check Valve

Conform To: DIN ANSI JIS CNS Standards.



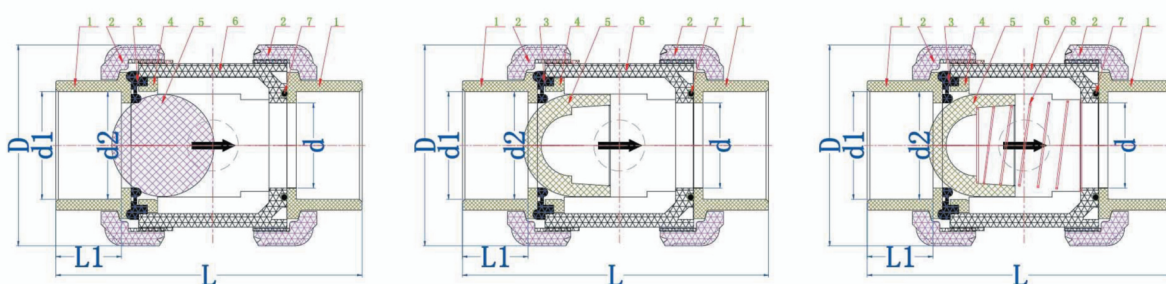
No.	Name	Material	Quantity	Unit	No.	Name	Material	Quantity	Unit
01	Socket	UPVC / CPVC / PPH	1	PCS	01	Socket	UPVC / CPVC / PPH	1	PCS
02	Nut	UPVC / CPVC / PPH	1	PCS	02	Nut	UPVC / CPVC / PPH	1	PCS
03	Gasket	EPDM / VITON	1	PCS	03	Gasket	EPDM / VITON	1	PCS
04	Gasket	UPVC / CPVC / PPH	1	PCS	04	Gasket	UPVC / CPVC / PPH	1	PCS
05	Ball	UPVC / CPVC / PPH	1	PCS	05	Ball	UPVC / CPVC / PPH	1	PCS
06	Body	UPVC / CPVC / PPH	1	PCS	06	Body	UPVC / CPVC / PPH	1	PCS
					07	Spring	SUS304	1	PCS

UNIT: MM

SIZE	d	d1						d2						D	L	L1
		UPVC/CPVC					PPH	UPVC/CPVC					PPH			
		ANSI	DIN	JIS	CNS	DIN		ANSI	DIN	JIS	CNS	DIN				
1/2" (15)	15	21.40	20.25	22.30	22.30	19.30		21.25	20.05	21.85	21.85	19.00		54.00	91.00	23.00
3/4" (20)	20	26.75	25.25	26.30	26.30	24.10		26.58	25.05	25.85	25.85	23.80		63.00	106.50	26.00
1" (25)	25	33.52	32.25	32.33	34.50	31.00		33.28	32.05	31.85	33.90	30.70		73.50	125.00	29.00
1-1/4" (32)	32	42.28	40.25	38.43	42.50	39.00		42.05	40.05	37.85	41.90	38.60		84.50	141.00	33.00
1-1/2" (40)	40	48.40	50.25	48.46	48.46	49.00		48.12	50.05	47.75	47.75	48.60		98.00	150.50	35.50
2" (50)	50	60.45	63.25	60.56	60.56	61.90		60.18	63.05	59.75	59.75	61.40		119.00	169.50	38.50
2-1/2" (65)	63	73.30	75.25	76.60	76.60	73.60		72.85	75.05	75.87	75.87	72.30		150.00	245.00	64.50
3" (80)	75	89.25	90.35	89.60	89.60	88.30		88.70	90.05	88.83	88.83	86.90		169.00	270.00	70.00

7. UPVC、CPVC、PPH Tru Union Check Valve

Conform To: DIN ANSI JIS CNS Standards.



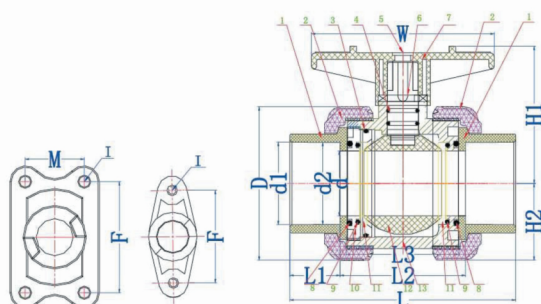
No.	Name	Material	Quantity	Unit	No.	Name	Material	Quantity	Unit
01	Socket	UPVC / CPVC / PPH	2	PCS	01	Socket	UPVC / CPVC / PPH	2	PCS
02	Nut	UPVC / CPVC / PPH	2	PCS	02	Nut	UPVC / CPVC / PPH	2	PCS
03	Gasket	EPDM / VITON	1	PCS	03	Gasket	EPDM / VITON	1	PCS
04	Gasket	UPVC / CPVC / PPH	1	PCS	04	Gasket	UPVC / CPVC / PPH	1	PCS
05	Ball	UPVC / CPVC / PPH	1	PCS	05	Ball	UPVC / CPVC / PPH	1	PCS
06	Body	UPVC / CPVC / PPH	1	PCS	06	Body	UPVC / CPVC / PPH	1	PCS
07	O-Ring	EPDM / VITON	1	PCS	07	O-Ring	EPDM / VITON	1	PCS
					08	Spring	SUS304	1	PCS

UNIT: MM

SIZE	d	d1					d2					D	L	L1
		UPVC/CPVC				PPH	UPVC/CPVC				PPH			
		ANSI	DIN	JIS	CNS	DIN	ANSI	DIN	JIS	CNS	DIN			
1/2" (15)	15	21.40	20.25	22.30	22.30	19.30	21.25	20.05	21.85	21.85	19.00	54.00	91.00	23.00
3/4" (20)	20	26.75	25.25	26.30	26.30	24.10	26.58	25.05	25.85	25.85	23.80	63.00	106.50	26.00
1" (25)	25	33.52	32.25	32.33	34.50	31.00	33.28	32.05	31.85	33.90	30.70	73.50	125.00	29.00
1-1/4" (32)	32	42.28	40.25	38.43	42.50	39.00	42.05	40.05	37.85	41.90	38.60	84.50	141.00	33.00
1-1/2" (40)	40	48.40	50.25	48.46	48.46	49.00	48.12	50.05	47.75	47.75	48.60	98.00	150.50	35.50
2" (50)	50	60.45	63.25	60.56	60.56	61.90	60.18	63.05	59.75	59.75	61.40	119.00	169.50	38.50
2-1/2" (65)	50	73.30	75.40	76.60	76.60	73.60	72.85	75.05	75.87	75.87	72.30	150.00	248.00	64.50
3" (80)	50	89.25	90.45	89.60	89.70	88.30	88.70	90.05	88.83	88.83	86.90	169.00	275.00	76.00
4" (100)	50	114.60	110.35	114.70	114.70	108.00	114.10	110.05	113.98	113.98	106.40	190.00	353.00	84.00

8. UPVC、CPVC、PPH、PVDF TRUE UNION BALL VALVE

Conform To: DIN ANSI JIS CNS Standards.



No.	Name	Material	Quantity	Unit
3\4\8\9	O-Ring	EPDM / VITON	7	PCS
01	Socket	UPVC / CPVC / PPH/PVDF	2	PCS
02	Nut	UPVC / CPVC / PPH/PVDF	2	PCS
05	Mark	ABS	1	PCS
06	Rod	UPVC / CPVC / PPH/PVDF	1	PCS
07	Handle	ABS	1	PCS
10	Liner	UPVC / CPVC / PPH/PVDF	1	PCS
11	Leak-Proof Ring	PTFE	2	PCS
12	Ball	UPVC / CPVC / PPH/PVDF	1	PCS
13	Body	UPVC / CPVC / PPH/PVDF	1	PCS

UNIT: MM

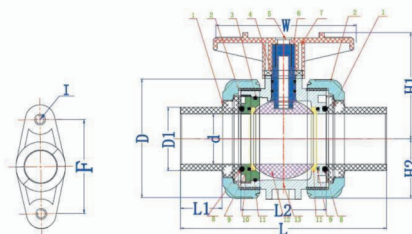
SIZE	d	d1						d2					
		UPVC/CPVC				PPH	PVDF	UPVC/CPVC				PPH	PVDF
		ANSI	DIN	JIS	CNS	DIN	DIN	ANSI	DIN	JIS	CNS	DIN	DIN
1/2" (15)	15	21.40	20.30	22.30	22.30	19.30	19.20	21.25	20.05	21.85	21.85	19.00	19.00
3/4" (20)	20	26.75	25.30	26.30	26.30	24.10	24.20	26.58	25.05	25.85	25.85	23.80	23.90
1" (25)	25	33.52	32.30	32.33	34.50	31.00	31.10	33.28	32.05	31.85	33.90	30.70	30.90
1-1/4" (32)	32	42.28	40.35	38.43	42.50	39.00	39.00	42.05	40.05	37.85	41.90	38.60	38.80
1-1/2" (40)	40	48.40	50.35	48.46	48.46	49.00	48.90	48.12	50.05	47.75	47.75	48.60	48.70
2" (50)	50	60.45	63.40	60.56	60.56	61.90	61.90	60.18	63.05	59.75	59.75	61.40	61.60
2-1/2" (65)	63	73.30	75.40	76.60	76.60	73.60	-	72.85	75.05	75.87	75.87	72.30	-
3" (80)	75	89.25	90.45	89.60	89.60	88.30	-	88.70	90.05	88.83	88.83	86.90	-
4" (100)	90	114.60	110.50	114.70	114.70	108.00	-	114.10	110.05	113.50	113.50	106.40	-

UNIT: MM

SIZE	D	L	L1	L2	L3	W	H1	H2	F	M	I	Operating torque (N. M)
1/2" (15)	54.00	108.00	23.00	62.00	52.00	84.00	52.50	27.50	31.00	-	M6	2.0
3/4" (20)	63.00	115.00	26.00	63.00	54.00	90.00	59.00	32.00	33.00	-	M6	2.5
1" (25)	73.50	130.00	29.00	72.00	62.00	106.00	67.50	37.25	40.00	-	M6	4.0
1-1/4" (32)	84.50	145.50	33.00	79.50	70.00	116.00	77.50	42.75	52.00	-	M8	5.0
1-1/2" (40)	98.00	161.00	35.50	90.00	79.50	128.00	90.00	50.00	52.00	-	M8	7.5
2" (50)	118.00	175.00	38.50	98.00	85.00	140.00	106.00	60.00	70.00	-	M8	8.5
2-1/2" (65)	150.00	276.00	64.50	147.00	133.00	198.00	136.50	76.50	84.00	45.00	M10	13
3" (80)	169.00	303.00	70.00	163.00	146.00	218.00	150.00	86.00	84.00	45.00	M10	16
4" (100)	190.00	353.00	84.00	185.00	160.00	235.00	166.00	98.00	121.00	49.00	M12	25

9. PPH、PVDF BUTT WELDING DOUBLE UNION BALL VALVE

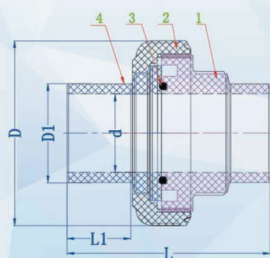
Conform To: DIN ANSI JIS CNS Standards.



No.	Name	Material	Quantity	Unit
3\4\8\9	O-Ring	EPDM / VITON	7	PCS
01	Socket	PPH/PVDF	2	PCS
02	Nut	PPH/PVDF	2	PCS
05	Mark	ABS	1	PCS
06	Rod	PPH/PVDF	1	PCS
07	Handle	ABS	1	PCS
10	Liner	PPH/PVDF	1	PCS
11	Leak-Proof Ring	PTFE	2	PCS
12	Ball	PPH/PVDF	1	PCS
13	Body	PPH/PVDF	1	PCS

UNIT: MM

SIZE	d	D	L	L1	L2	D1	W	H1	H2	F	M	I	Operating torque (N. M)
1/2" (15)	15	54.00	132.00	27.00	52.00	20.10	84.00	52.50	27.50	31.00	-	M6	2.0
3/4" (20)	20	63.00	134.00	26.00	54.00	25.10	90.00	59.00	32.00	33.00	-	M6	2.5
1" (25)	25	73.50	142.00	24.00	62.00	32.10	106.00	67.50	37.25	40.00	-	M6	4.0
1-1/4" (32)	32	84.50	170.50	33.00	70.00	40.10	116.00	77.50	42.75	52.00	-	M8	5.0
1-1/2" (40)	40	98.00	184.00	35.00	79.50	50.10	128.00	90.00	50.00	52.00	-	M8	7.5
2" (50)	50	118.00	206.00	41.50	85.00	63.10	140.00	106.00	60.00	70.00	-	M8	8.5
2-1/2" (65)	61.30	149.00	282.00	43.00	147.00	75.10	210.00	136.50	76.50	76.50	45	M10	11.0
3" (80)	73.50	168.00	298.00	46.00	163.00	90.10	230.00	150.00	86.00	86.00	45	M10	12.0
4" (100)	90.00	190.00	329.00	52.00	185.00	110.20	276.00	166.00	98.00	98.00	49	M12	18.0



No.	Name	Material	Quantity	Unit
1	Union Body	PPH/PVDF	1	PCS
2	Nut	PPH/PVDF	1	PCS
3	O-Ring	EPDM/VITON	1	PCS
4	Socket	PPH/PVDF	1	PCS

UNIT: MM

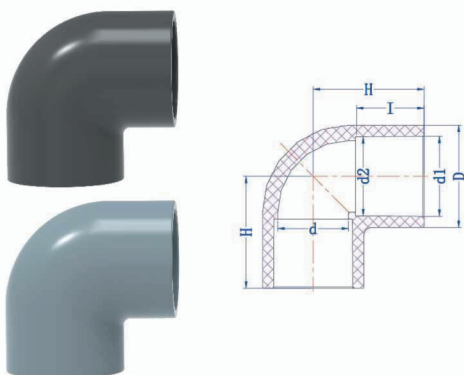
SIZE	d	D	D1	L	L1
1/2" (15)	15	54.00	20.10	95.00	27.00
3/4" (20)	20	63.00	25.10	98.00	26.00
1" (25)	25	73.50	32.10	100.00	24.00
1-1/4" (32)	32	84.50	40.10	114.00	33.00
1-1/2" (40)	40	98.00	50.10	118.00	35.00
2" (50)	50	119.00	63.10	130.00	41.50
2-1/2" (65)	61.30	149.00	75.30	156.00	42.00
3" (80)	73.50	168.00	90.30	164.00	46.00
4" (100)	90.00	190.00	110.30	184.00	48.00

Pipe Fittings Series

1. Pipe Fittings Of DIN Standard

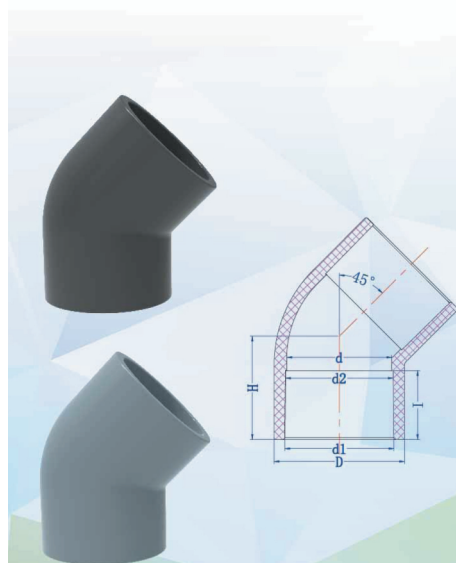
Executive Standard: GB/ T 4219.2-2015 GB/ T18998.3-2022

Conform To: GB/ T 4219.2-2015 GB/ T18998.3-2022



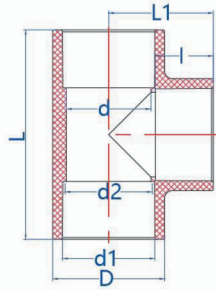
90°ELBOW(SXS)DIN

Nominal	Socket Type			Structural Diameter		
SIZE	d1	d2	I	D	d	H
20	20.3	20.1	16.0	27.0	17.0	28.5
25	25.3	25.1	19.0	33.0	23.0	34.0
32	32.3	32.1	22.0	40.5	29.0	40.5
40	40.3	40.1	26.0	49.1	37.0	48.5
50	50.3	50.1	32.0	61.0	47.0	57.0
63	63.3	63.1	38.0	75.0	60.0	71.0
75	75.3	75.1	44.0	89.4	72.0	83.0
90	90.3	90.1	51.0	107.3	87.1	98.0
110	110.4	110.1	62.0	131.0	106.1	118.0
140	140.5	140.2	77.0	166.7	133.0	147.0
160	160.5	160.2	88.0	186.0	154.0	166.0
200	200.8	199.9	106.5	230.6	194.0	209.0
225	225.8	225.0	117.5	261.0	218.0	240.0
250	251.0	249.9	131.6	288.0	242.0	260.0
280	281.0	280.0	145.0	323.0	271.0	285.0
315	316.0	315.0	162.5	363.0	306.0	320.5
355	356.8	355.0	184.3	391.0	326.0	368.3
400	402.0	400.0	204.2	442.0	369.8	413.0



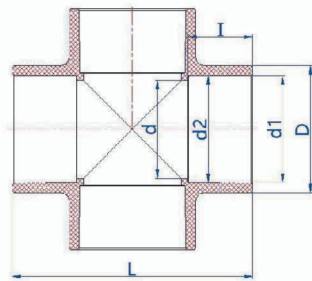
45°ELBOW(SxS)DIN

Nominal	Socket Type			Structural Diameter		
SIZE	d1	d2	I	D	d	H
20	20.3	20.1	16.0	29.0	17.0	24.0
25	25.3	25.1	19.0	34.9	23.0	28.5
32	32.3	32.1	22.0	43.0	29.0	33.0
40	40.3	40.1	26.0	52.3	37.0	39.0
50	50.3	50.1	32.0	59.0	47.0	48.0
63	63.3	63.1	38.0	72.0	60.0	57.0
75	75.3	75.1	44.0	89.4	72.0	66.0
90	90.3	90.1	51.0	107.3	87.1	71.5
110	110.4	110.1	61.0	132.0	106.1	82.5
140	140.5	140.2	77.0	166.7	133.0	108.0
160	160.5	160.2	86.0	186.0	154.0	120.5
200	200.8	199.9	106.5	230.6	194.0	157.4
225	225.8	225.0	117.5	261.0	218.0	165.0
250	251.0	249.9	131.6	288.0	242.0	193.0
280	281.0	280.0	145.0	323.0	271.0	203.0
315	316.0	315.0	162.5	363.0	306.0	228.0
355	356.8	355.0	184.3	391.0	326.0	272.8
400	402.0	400.0	204.2	442.0	369.8	298.5



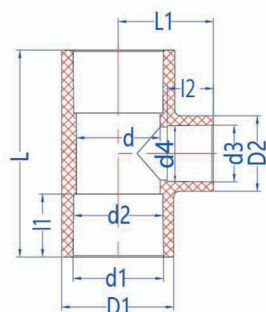
TEE (SXS) DIN

Nominal	Socket Type			Structural Diameter			
SIZE	d1	d2	I	D	d	L	L1
20	20.3	20.1	16.0	27.0	17.0	57.0	28.5
25	25.3	25.1	19.0	33.0	23.0	68.0	34.0
32	32.3	32.1	23.0	40.5	29.0	82.0	40.5
40	40.3	40.1	26.0	49.1	37.0	97.5	48.5
50	50.3	50.1	32.0	61.0	47.0	115.0	57.0
63	63.3	63.1	38.0	75.0	60.0	142.6	71.0
75	75.3	75.1	44.0	89.4	72.0	166.7	83.0
90	90.3	90.1	51.0	107.3	87.1	196.5	98.0
110	110.4	110.1	61.0	127/130.6	106.1	236.5	118.0
140	140.5	140.2	76.0	166.7	133.0	298.5	149.0
160	160.5	160.2	86.0	186.0	154.0	338.0	169.0
200	200.8	199.9	106.5	230.6	194.0	417.0	211.0
225	225.8	225.0	117.5	261.0	218.0	465.0	232.0
250	251.0	249.9	131.6	288.0	242.0	520.0	260.0
280	281.5	279.9	147.0	314.8	271.0	578.0	289.0
315	316.7	314.9	164.3	358.2	306.0	651.0	325.5
355	356.8	355.0	184.3	391.0	326.0	736.0	368.0
400	402.0	400.0	204.2	442.0	369.8	825.0	412.5



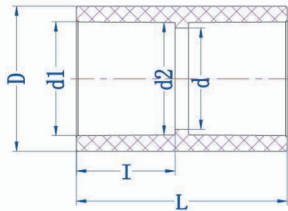
CROSS (SXSXS) DIN

Nominal	Socket Type			Structural Diameter		
SIZE	d1	d2	I	D	d	L
20	20.3	20.1	16.0	27.0	17.0	57.0
25	25.3	25.1	19.0	33.0	23.0	68.0
32	32.3	32.1	23.0	40.5	29.0	82.0
40	40.3	40.1	26.0	49.1	37.0	97.5
50	50.3	50.1	32.0	61.0	47.0	115.0
63	63.3	63.1	38.0	75.0	60.0	142.6
75	75.3	75.1	44.0	89.4	72.0	166.7
90	90.3	90.1	51.0	107.3	87.1	196.5
110	110.4	110.1	61.0	127/130.6	106.1	236.5
140	140.5	140.2	76.0	166.7	133.0	298.5
160	160.5	160.2	86.0	186.0	154.0	338.0
200	200.8	199.9	106.5	230.6	194.0	417.0
225	225.8	225.0	117.5	261.0	218.0	465.0
250	251.0	249.9	131.6	288.0	242.0	520.0
280	281.5	279.9	147.0	314.8	271.0	578.0
315	316.7	314.9	164.3	358.2	306.0	651.0
355	356.8	355.0	184.3	391.0	326.0	736.0
400	402.0	400.0	204.2	442.0	369.8	825.0



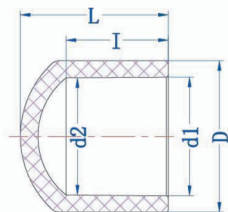
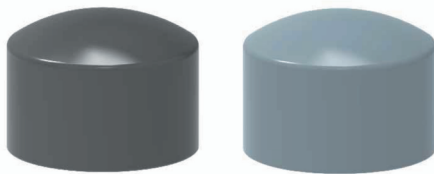
REDUCER TEE (SxSxS)DIN

Nominal	Socket Type						Structural Diameter				
SIZE	d1	d2	I1	d3	d4	I2	D1	D2	d	L	L1
25*20	25.3	25.1	19.0	20.3	20.1	16.0	33.0	27.0	23.0	76.2	31.0
32*20	32.3	32.1	22.0	20.3	20.1	16.0	40.5	27.0	29.0	74.5	34.0
32*25	32.3	32.1	22.0	25.3	25.1	19.0	40.5	33.0	29.0	74.5	36.5
40*20	40.3	40.1	26.0	20.3	20.1	16.0	49.1	27.0	37.0	89.5	38.0
40*25	40.3	40.1	26.0	25.3	25.1	19.0	49.1	33.0	37.0	89.5	40.5
40*32	40.3	40.1	26.0	32.3	32.1	22.0	49.1	40.5	37.0	89.5	44.0
50*20	50.3	50.1	32.0	20.3	20.1	16.0	61.0	27.0	47.0	105.2	42.0
50*25	50.3	50.1	32.0	25.3	25.1	19.0	61.0	33.0	47.0	105.2	44.5
50*32	50.3	50.1	32.0	32.3	32.1	22.0	61.0	40.5	47.0	105.2	48.0
50*40	50.3	50.1	32.0	40.3	40.1	26.0	61.0	49.1	47.0	105.2	53.0
63*20	63.4	63.1	38.0	20.3	20.1	16.0	75.0	27.0	60.0	112.6	48.0
63*25	63.4	63.1	38.0	25.3	25.1	19.0	75.0	33.0	60.0	112.6	51.0
63*32	63.4	63.1	38.0	32.3	32.1	22.0	75.0	40.5	60.0	112.6	54.0
63*40	63.4	63.1	38.0	40.3	40.1	26.0	75.0	49.1	60.0	128.0	58.0
63*50	63.3	63.1	38.0	50.3	50.1	30.3	75.0	61.0	60.0	128.0	64.0
75*32	75.4	75.1	44.0	32.3	32.1	22.0	89.4	40.5	72.1	154.5	61.0
75*40	75.4	75.1	44.0	40.3	40.1	26.0	89.4	49.1	72.1	154.5	65.5
75*50	75.4	75.1	44.0	50.3	50.1	32.0	89.4	61.0	72.1	154.5	70.5
75*63	75.4	75.1	44.0	63.4	63.1	38.0	89.4	75.0	72.1	154.5	78.0
90*50	90.4	90.1	51.0	50.3	50.1	32.0	104.3	61.0	87.1	184.6	78.5
90*63	90.4	90.1	51.0	63.4	63.1	38.0	104.3	75.0	87.1	184.6	85.5
90*75	90.4	90.1	51.0	75.4	75.1	44.0	104.3	89.4	87.1	184.6	91.5
110*40	110.4	110.2	61.0	40.3	40.1	26.0	131.0	49.1	106.1	190.6	84.0
110*50	110.4	110.2	61.0	50.4	50.1	32.0	131.0	61.0	106.1	190.6	88.0
110*63	110.4	110.2	61.0	63.4	63.1	38.0	131.0	75.0	106.1	190.6	95.5
110*75	110.4	110.2	61.0	75.4	75.1	44.0	131.0	89.4	106.1	218.5	101.0
110*90	110.4	110.2	61.0	90.3	90.1	51.0	131.0	107.3	106.1	218.5	109.0
140*50	140.5	140.2	77.0	50.3	50.1	32.0	166.7	61.0	134.0	249.0	108.0
140*90	140.5	140.2	77.0	90.4	90.1	51.0	166.7	107.3	134.0	249.0	123.5
160*63	160.5	160.2	86.0	63.4	63.1	38.0	186.0	78.0	154.0	286.0	120.0
160*90	160.5	160.2	86.0	90.4	90.1	51.0	186.0	107.3	154.0	286.0	146.6
160*110	160.5	160.2	86.0	110.4	110.2	61.0	186.0	131.0	154.0	286.0	142.5
160*140	160.5	160.2	86.0	140.8	139.9	77.0	186.0	166.7	154.0	315.5	161.5
200*110	201.0	199.9	106.2	110.6	109.9	61.2	230.5	131.0	103.9	357.0	162.5
200*140	201.0	199.9	106.2	140.8	139.9	76.2	230.5	166.7	133.9	356.5	178.0
200*160	201.0	199.9	106.2	160.8	159.9	86.2	230.5	184.6	153.9	415.5	197.7
225*90	225.8	225.0	117.5	90.4	90.0	51.2	261.0	107.3	218.0	384.0	163.0
225*110	225.8	225.0	119.0	110.4	110.2	61.5	261.0	131.0	218.0	384.0	174.0
225*140	225.8	225.0	117.5	140.7	139.9	76.2	261.0	166.7	218.0	384.0	189.5
225*160	225.8	225.0	119.0	160.8	159.9	86.2	261.0	184.8	218.0	403.0	209.7
250*110	251.3	249.9	132.0	110.4	110.0	61.2	281.0	131.0	241.9	430.0	186.3
250*140	251.3	249.9	132.0	140.7	139.9	76.2	281.0	166.7	241.9	430.0	201.8
250*160	251.3	249.9	132.0	160.8	159.9	86.2	281.0	184.8	241.9	430.0	211.8
250*225	251.3	249.9	132.0	225.8	225.0	117.5	281.0	261.0	241.9	430.0	254.0
280*225	281.5	279.9	147.0	225.8	225.0	117.5	315.0	261.0	278.0	446.0	276.0
315*110	316.7	314.9	164.3	110.4	110.0	61.2	356.0	131.0	307.0	600.0	209.7
315*140	316.7	314.9	164.3	140.7	139.9	76.2	356.0	166.7	307.0	600.0	225.2
315*160	316.7	314.9	164.3	160.8	159.9	86.2	356.0	184.8	307.0	600.0	235.2
315*200	316.7	314.9	164.3	201.0	199.9	106.2	356.0	230.5	307.0	600.0	268.5
315*225	316.7	314.9	164.3	225.8	225.0	117.5	356.0	261.0	307.0	600.0	269.2
315*250	316.7	314.9	164.3	251.3	249.9	132.0	356.0	281.0	307.0	645.0	282.0
315*280	316.7	314.9	164.3	281.5	279.9	147.0	356.0	315.0	307.0	647.0	321.5
355*200	356.8	355.0	184.3	201.0	199.9	106.2	388.0	230.5	326.0	591.0	285.5
355*250	356.8	355.0	184.3	251.3	249.9	132.0	388.0	261.0	326.0	639.0	311.5
355*315	356.8	355.0	184.3	316.7	314.9	164.3	388.0	356.0	326.0	693.0	350.6
400*200	401.6	400.0	208.0	201.0	199.9	106.2	432.8	230.5	398.5	623.0	318.6
400*250	401.6	400.0	208.0	251.3	249.9	132.0	432.8	261.0	398.5	672.0	342.8
400*315	401.6	400.0	208.0	316.7	314.9	164.3	432.8	356.0	398.5	752.0	370.0



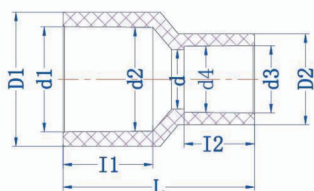
COUPLING (SxS) DIN

Nominal	Socket Type			Structural Diameter		
SIZE	d1	d2	I	D	d	L
20	20.3	20.1	16.0	27.0	17.0	37.30
25	25.3	25.1	19.0	33.0	23.0	42.00
32	32.3	32.1	22.0	40.5	29.0	49.40
40	40.3	40.1	26.0	49.1	37.0	57.00
50	50.3	50.1	32.0	61.0	47.0	68.00
63	63.3	63.1	38.0	75.0	60.0	82.00
75	75.3	75.1	44.0	89.4	72.0	95.50
90	90.3	90.1	51.0	107.3	87.1	111.20
110	110.4	110.1	61.0	131.0	106.1	133.00
140	140.5	140.2	77.0	166.7	133.0	158.00
160	160.5	160.2	86.0	186.0	154.0	179.50
200	200.8	199.9	106.5	230.6	194.0	218.0
225	225.8	225.0	118.0	261.0	218.0	252.00
250	251.0	249.9	131.6	288.0	242.0	271.2
280	281.0	280.0	145.0	323.0	271.0	300.00
315	316.0	315.0	162.5	363.0	306.0	335.00
355	356.8	355.0	184.3	391.0	326.0	373.5
400	402.0	400.0	204.2	442.0	369.8	423.0



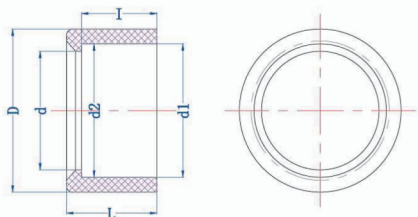
GAP DIN

Nominal	Socket Type			Structural Diameter	
SIZE	di	d2	I	D	L
20	20.3	20.0	16.0	27.0	25.5
25	25.3	25.0	20.0	33.0	29.5
32	32.3	32.0	24.0	40.5	35.5
40	40.3	40.0	28.0	49.1	40.0
50	50.3	50.0	32.0	61.0	46.5
63	63.3	63.0	38.0	75.0	54.5
75	75.4	75.0	44.0	89.4	66.5
90	90.4	90.0	52.5	107.3	74.5
110	110.4	110.1	63.0	131.0	85.5
140	140.6	140.0	77.0	166.7	117.0
160	160.6	160.0	86.0	186.0	117.0
200	201.0	299.9	106.5	230.6	141.6
225	225.8	225.0	119.0	256.7	162.0
250	251.0	250.0	131.6	288.0	170.6
280	281.5	279.9	147.0	314.8	212.5
315	316.6	314.9	164.3	358.2	234.5
355	356.8	355.0	184.3	391.0	265.0
400	402.0	400.0	204.2	442.0	294.0



REDUCER COUPING (S×S) DIN

Nominal	Socket Type						Structural Diameter			
SIZE	d1	d2	I1	d3	d4	I2	D1	D2	d	L
25*20	25.3	25.1	19.0	20.3	20.1	16.0	33.0	27.0	17.0	42.5
32*20	32.3	32.1	22.0	20.3	20.1	16.0	40.5	27.0	17.0	48.0
32*25	32.3	32.1	22.0	25.3	25.1	19.0	40.5	33.0	23.0	48.0
40*20	40.3	40.1	26.0	20.3	20.1	16.0	49.1	27.0	17.0	55.3
40*25	40.3	40.1	26.0	25.3	25.1	19.0	49.1	33.0	23.0	55.3
40*32	40.3	40.1	26.0	32.3	32.1	22.0	49.1	40.5	29.0	55.5
50*20	50.3	50.1	32.0	20.3	20.1	16.0	61.0	27.0	17.0	65.0
50*25	50.3	50.1	32.0	25.3	25.1	19.0	61.0	33.0	23.0	64.8
50*32	50.3	50.1	32.0	32.3	32.1	22.0	61.0	40.5	29.0	64.3
50*40	50.3	50.1	32.0	40.3	40.1	26.0	61.0	49.1	37.0	64.0
63*20	63.3	63.1	38.0	20.3	20.1	16.0	75.0	27.0	17.0	63.3
63*25	63.3	63.1	38.0	25.3	25.1	19.0	75.0	33.0	23.0	68.0
63*32	63.3	63.1	38.0	32.3	32.1	22.0	75.0	40.5	29.0	68.0
63*40	63.3	63.1	38.0	40.3	40.1	26.0	75.0	49.1	37.0	77.0
63*50	63.3	63.1	38.0	50.3	50.1	32.0	75.0	61.0	47.0	77.20
75*50	75.4	75.1	44.0	50.3	50.1	32.0	89.4	61.0	47.0	83.5
75*63	75.4	75.1	44.0	63.4	63.1	38.0	89.4	75.0	60.0	92.5
90*50	90.4	90.1	51.0	50.3	50.1	32.0	107.3	61.0	47.0	100.5
90*63	90.4	90.1	51.0	63.4	63.1	38.0	107.3	75.0	60.0	100.0
90*75	90.4	90.1	51.0	75.3	75.1	44.0	107.3	89.4	72.0	106.0
110*50	110.4	110.2	61.0	50.4	50.1	32.0	131.0	61.0	47.0	109.5
110*63	110.4	110.2	61.0	63.4	63.1	38.0	131.0	75.0	60.0	109.5
110*75	110.4	110.2	61.0	75.4	75.1	44.0	131.0	89.4	72.0	125.0
110*90	110.4	110.2	61.0	90.4	90.1	51.0	131.0	107.3	87.0	125.5
140*90	140.5	140.2	77.0	90.4	90.1	51.0	166.7	107.3	87.0	140.0
140*110	140.5	140.2	77.0	110.4	110.1	61.0	166.7	131.0	106.1	159.0
160*90	160.5	160.2	86.0	90.4	90.1	51.0	186.0	107.3	87.0	178.6
160*110	160.5	160.2	86.0	110.4	110.1	61.0	186.0	131.0	106.1	182.0
160*140	160.5	160.2	86.0	140.5	140.1	77.0	186.0	166.7	134.0	182.0
200*160	201.0	199.9	106.5	160.6	160.1	86.0	230.6	184.8	154.0	217.0
250*160	225.8	225.0	117.5	160.6	160.1	86.0	256.8	184.8	154.0	242.5
225*200	225.8	225.0	117.5	201.0	199.9	106.5	256.8	230.6	193.5	243.0
250*225	251.3	249.9	131.6	225.8	225.0	117.5	288.0	256.8	220.0	269.0
280*225	281.3	279.9	147.0	225.8	225.0	117.5	315.0	256.8	220.0	305.0
315*280	316.6	314.9	164.3	281.3	279.9	147.0	355.0	315.0	278.0	338.0
355*315	356.8	355.0	184.3	316.6	314.9	164.3	391.0	355.0	306.9	384.0
400*315	402.0	400.0	207.0	316.6	314.9	164.3	442.0	355.0	306.9	431.0
400*355	402.0	400.0	207.0	356.8	355.0	184.3	442.0	391.0	326.0	436.0

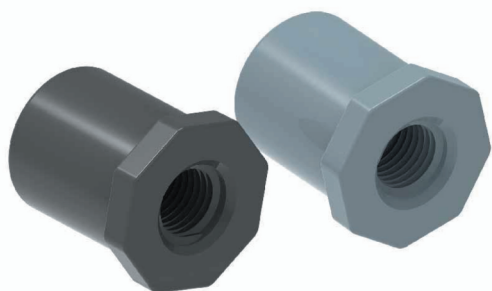
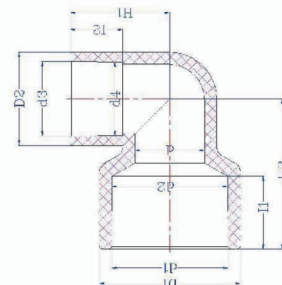
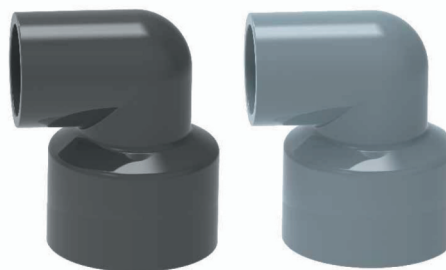


REDUCER BUSHING (S×S) DIN

Nominal	Outside Dia	Socket Type		Structural Diameter		
SIZE	D	d1	d2	d	I	L
25*20	25.0	20.3	20.1	16.0	17.0	18.5
32*20	32.0	20.3	20.1	16.0	17.0	22.0
32*25	32.0	25.3	25.1	21.0	19.5	22.0
40*20	40.0	20.3	20.1	16.0	17.0	26.0
40*25	40.0	25.3	25.1	21.0	19.5	26.0
40*32	40.0	32.3	32.1	28.0	23.0	26.0
50*20	50.0	20.3	20.1	16.0	17.0	31.0
50*25	50.0	25.3	25.1	21.0	23.0	31.0
50*32	50.0	32.3	32.1	28.0	27.0	31.0
50*40	50.0	40.3	40.1	35.0	27.0	31.0
63*32	63.0	32.3	32.1	28.0	23.0	37.5
63*40	63.0	40.3	40.1	35.0	27.0	37.5
63*50	63.0	50.3	50.1	45.0	32.0	37.5
75*32	75.0	32.3	32.1	28.0	23.0	43.5
75*40	75.0	40.3	40.1	35.0	27.0	43.5
75*50	75.0	50.3	50.1	45.0	32.0	43.5
75*63	75.0	63.3	60.1	56.0	38.5	43.5
90*32	90.0	32.3	32.1	28.0	23.0	51.0
90*50	90.0	50.3	50.1	45.0	32.0	51.0
90*63	90.0	63.3	60.1	56.0	38.5	51.0
90*75	90.0	75.3	75.1	67.0	44.0	51.0
110*32	110.0	32.3	32.1	28.0	23.0	61.0
110*50	110.0	50.3	50.1	45.0	32.0	61.0
110*63	110.0	63.3	63.1	56.0	38.5	61.0
110*75	110.0	75.3	63.1	67.0	44.5	61.0
110*90	110.0	90.4	90.1	80.5	52.0	61.0
140*63	140.0	63.3	63.1	56.0	38.5	76.2
140*75	140.0	75.4	75.1	67.0	44.0	76.2
140*90	140.0	90.4	90.1	80.5	52.0	76.2
140*110	140.0	110.5	110.1	101.5	62.0	76.2
160*63	160.0	63.3	63.1	56.0	38.5	86.0
160*75	160.0	75.4	63.1	67.0	44.0	86.0
160*90	160.0	90.4	90.1	80.5	52.0	86.0
160*110	160.0	110.4	110.1	102.0	62.0	86.0
160*140	160.0	140.7	140.0	134.0	77.0	86.0
200*160	200.0	160.8	160.0	151.0	86.0	106.5
225*110	225.0	110.4	110.1	102.0	62.0	118.7
225*140	225.0	140.7	140.0	134.0	77.0	118.7
225*160	225.0	160.8	160.0	151.0	86.0	118.7
250*110	250.0	110.4	110.1	102.0	62.0	131.2
250*160	250.0	160.8	160.0	151.0	86.0	131.2
250*225	250.0	225.8	225.0	211.0	119.5	131.2
280*225	280.0	225.8	225.0	218.0	119.5	146.2
315*110	315.0	110.4	110.1	102.0	62.0	163.7
315*160	315.0	160.8	160.0	151.0	86.0	163.7
315*225	315.0	225.8	225.0	211.0	119.5	163.7
315*280	315.0	281.5	280.0	263.5	146.2	163.7
355*225	355.0	225.8	225.0	211.0	119.5	183.7
355*250	355.0	251.2	250.0	239.0	131.6	183.7
355*315	355.0	316.5	315.0	305.0	164.3	183.7
400*225	400.0	225.8	225.0	211.0	119.5	206.2
400*250	400.0	251.2	250.0	239.0	131.6	206.2
400*315	400.0	316.5	315.0	305.0	164.3	206.2
400*355	400.0	356.7	355.0	345.0	183.7	206.2

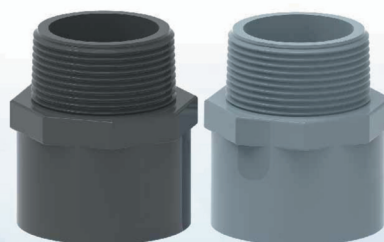
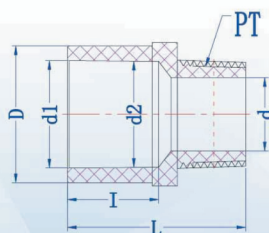
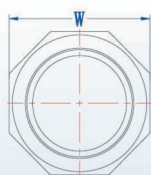
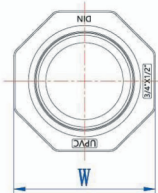
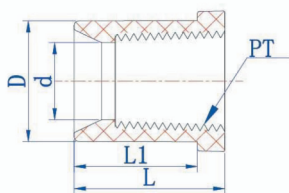
REDUCER 90° ELBOW

SIZE	d	d1	d2	I1	D1	H1	d3	D4	I2	D2	H2
dn40*25	24	40.35	39.95	26.5	49.00	54.00	25.30	24.95	19.00	33.00	36.00
dn50*32	30	50.35	49.95	31.5	61.00	65.00	32.35	31.95	22.50	40.50	43.00
dn63*40	38	63.40	62.95	38.00	75.00	78.00	40.35	39.96	26.00	49.00	52.00



FEMALE REDUCER BUSHING (S×S) DIN

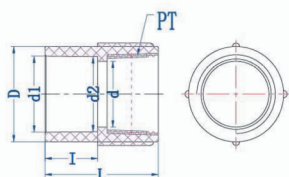
Nominal	Outside Dia		Structural Diameter			PT
SIZE	D	d	L1	L	W	
20*1/4"	20.10	8.00	23.50	28.00	24.50	1/4"
25*1/2"	25.10	17.00	27.00	33.00	31.00	1/2"
32*1/2"	32.10	17.00	30.00	36.00	38.00	1/2"
32*3/4"	32.10	21.50	30.00	36.00	38.00	3/4"



MALE ADAPTER (S×T) DIN

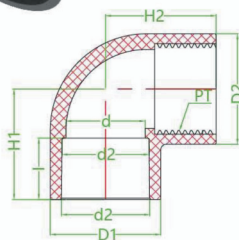
Nominal	Outside Dia	Socket Type			Structural Diameter			
SIZE	D	d1	d2	I	W	d	L	NPT(Tooth/Inch)
20*1/2"	27.0	20.3	20.1	16.0	30	13.0	38.5	14
25*3/4"	33.0	25.3	25.1	19.0	35	18.0	45.0	14
32*1"	40.5	32.3	32.1	29.0	45	23.0	56.8	11
40*1-1/4"	49.1	40.3	40.1	26.5	51	31.0	57.5	11
50*1-1/2"	61.0	50.3	50.1	35.0	64	37.0	67.5	11
63*2"	75.0	63.3	63.1	38.0	78	48.0	76.0	11
75*2-1/2"	90.4	75.4	75.1	44.0	95	56.0	80.0	11
90*3"	107.3	90.5	90.1	55.0	108	67.3	96.0	11
110*4"	131.0	110.5	110.0	62.0	130	91.6	110.0	11

FEMALE ADAPTER (S×T) DIN



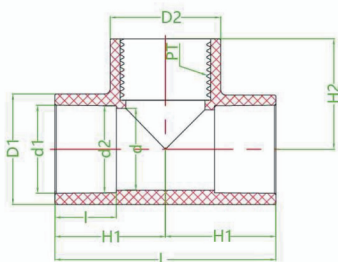
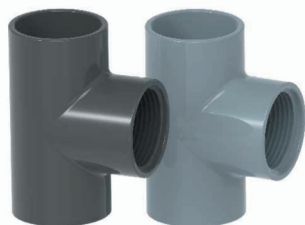
Nominal	Outside Dia	Socket Type			Structural Diameter		
SIZE	D	d1	d2	I	d	L	NPT(Teeth/Inch)
20*1/2"	27.0	20.3	20.1	17.0	13.2	38.0	14
25*3/4"	33.0	25.3	25.1	19.0	19.0	42.2	14
32*1"	40.5	32.3	32.1	23.0	24.0	48.2	11
40*1-1/4"	49.1	40.3	40.1	27.0	32.0	54.5	11
50*1-1/2"	61.0	50.3	50.1	32.0	38.0	61.0	11
63*2"	75.0	63.3	63.1	38.0	50.0	72.0	11
75*2-1/2"	90.4	75.4	75.1	44.0	68.0	80.0	11
90*3"	107.3	90.5	90.1	51.5	80.0	90.0	11
110*4"	131.0	110.5	110.0	61.5	104.5	103.0	11

FEMALE ELBOW (S×T) DIN



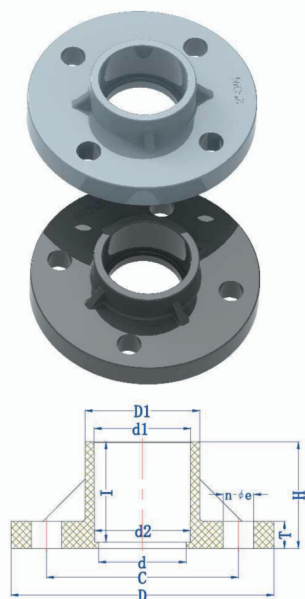
Nominal	Socket Type			Structural Diameter					
SIZE	d1	d2	I	D1	D2	d	H1	H2	NPT(Teeth/Inch)
20*1/2"	20.3	20.0	16.0	27.0	27.0	16.0	28.5	28.5	14
25*3/4"	25.3	25.0	19.0	33.0	33.0	21.0	34.0	34.0	14
32*1"	32.3	32.0	22.0	40.5	40.5	26.0	40.5	40.5	11
40*1-1/4"	40.3	40.0	26.0	49.1	49.1	34.0	48.5	48.5	11
50*1-1/2"	50.3	50.0	32.0	61.0	61.0	45.0	57.0	57.0	11
63*2"	63.3	63.0	38.0	75.0	75.0	58.0	71.0	71.0	11

FEMALE TEE (S×T) DIN



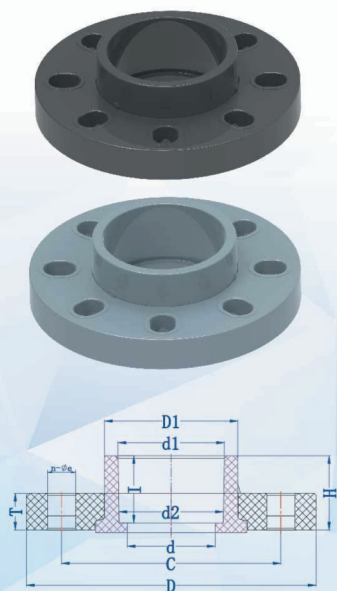
Nominal	Socket Type			Structural Diameter						
SIZE	d1	d2	I	D1	D2	d	H1	H2	L	NPT(Teeth/Inch)
20*1/2"	20.3	20.0	16.0	27.0	27.0	17.0	28.5	28.5	57.0	14
25*3/4"	25.3	25.0	19.0	33.0	33.0	23.0	34.0	34.0	68.0	14
32*1"	32.3	32.0	22.0	40.5	40.5	29.0	41.5	41.5	83.0	11
40*1-1/4"	40.3	40.0	26.0	49.1	49.1	37.0	48.8	48.8	97.6	11
50*1-1/2"	50.3	50.0	32.0	61.0	61.0	47.0	57.5	57.5	115.0	11
63*2"	63.3	63.0	38.0	75.0	75.0	60.0	71.3	71.3	142.6	11
2-1/2"	75.4	75.00	44.0	87.0	87.0	72.0	83.0	83.0	166.7	11
3"	90.4	90.00	51.0	104.0	104.0	87.1	98.0	98.0	196.5	11
4"	110.4	110.0	61.0	125.4	125.4	106.1	118.0	118.0	236.5	11

FLANCE DIN



SIZE	D	D1	C	d	d1	d2	H	T	I	n f e
20	95	32	65	15	20.30	20.00	22	14	16.5	4-14
25	105	35	75	20	25.30	25.00	24	15	18.5	4-14
32	115	43	85	25	32.30	32.00	35	16	30.0	4-14
40	140	52	100	32	40.30	40.00	38	18	33.0	4-18
50	150	59	110	43	50.30	50.00	38	18	31.3	4-18
63	165	76	125	55	63.30	63.00	43	20	38.0	4-18
75	185	89.4	145	65	75.30	75.00	50	20	44.0	4-18
90	200	107.3	160	80	90.30	90.00	57	20	51.0	8-18
110	220	132	180	100	110.40	110.00	70	22	61.0	8-18
140	250	166.7	210	125	140.60	140.0	90	25	76.0	8-18
160	285	185	240	154	160.70	160.00	116	25	86.0	8-22
225	340	257	295	200	225.80	225.0	134	25	118.5	8-22

VAN STONE FLANCE DIN

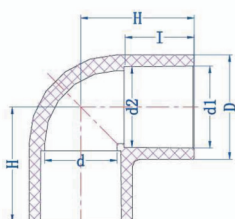


SIZE	D	D1	C1	C2	d	d1	d2	H	T	I	n-f e
20	95	30.6	60	70	15	20.3	20.0	26.0	14	21.6	4-15
25	105	36.0	70	75	20	25.3	25.0	29.5	15	23.4	4-15
32	125	43.8	80	90	25	32.3	32.0	32.2	16	28.7	4-15
40	140	52.6	90	100	32	40.3	40.0	38.5	16	31.7	4-19
50	150	60.7	99	110	40	50.3	50.0	40.5	18	35.0	4-19
63	165	74.8	120	125	51	63.3	63.0	45.0	20	38.2	4-19
75	185	89.6	140	145	63	75.4	75.0	51.0	24	45.0	4-19
90	200	106.5	150	160	77	90.4	90.0	55.0	26	48.0	8-19
110	229	133.0	175	191	102	110.4	110.0	64.0	29	57.5	8-19
140	254	160.1	210	216	125	140.60	140.0	82.0	28	68.0	8-22
160	285	187.1	240	242	156	160.70	160.0	87.0	32	76.0	8-23
200	343	225.4	295	299	190	200.8	200.0	116.0	35	106.0	8-23
225	343	247.1	295	299	200	225.8	225.0	130.0	35	117.5	8-23
250	406	281.7	355	362	240	251.2	250.0	150.0	42	131.0	12-25
280	406	305.0	355	362	250	280.8	280.0	150.0	42	145.0	12-25
315	483	344.6	410	432	307	316.0	315.0	190.0	52	172.0	12-25
355	510	391	450	476	326	356.8	355.0	197.0	40	184.3	12-28
400	570	442	500	540	370	402.0	400.0	226.0	44	204.2	16-28

2.UPVC、CPVC、 ANSI

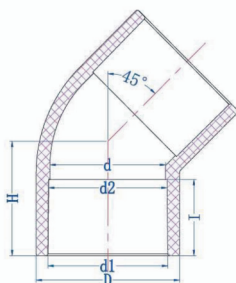
Implementation Standards: ASTM D2467(SCH80) ASTM F439(SCH80)

Conform To: ASTM D2467(SCH80) ASTM F439(SCH80)



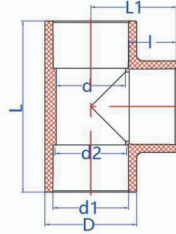
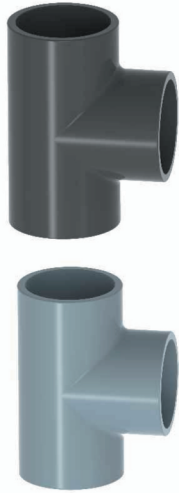
ELBOW(S×S) ANSI

Nominal	Socket Type			Structural Diameter		
SIZE	d1	d2	I	D	d	H
1/2"	21.54	21.23	24.00	29.20	16.00	34.80
3/4"	26.87	26.57	27.00	34.90	22.00	40.90
1"	33.55	33.27	30.00	43.00	30.00	47.00
1-1/4"	42.42	42.04	34.00	52.30	38.00	54.25
1-1/2"	48.56	48.11	37.00	58.90	43.00	60.90
2"	60.63	60.17	40.00	71.90	54.00	70.10
2-1/2"	73.38	72.85	46.50	87.60	67.00	82.95
3"	89.31	88.70	50.00	104.75	82.00	93.60
4"	114.76	114.10	60.00	132.00	106.00	115.65
5"	141.81	141.10	76.00	162.30	133.00	150.00
6"	168.83	168.00	76.50	190.80	158.00	174.50
8"	219.84	218.70	102.00	245.30	200.00	225.00
10"	273.81	272.67	128.00	305.80	262.50	278.00
12"	324.6	323.47	153.4	361.6	313	291



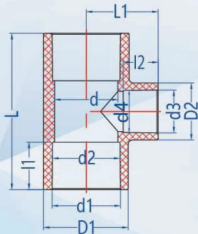
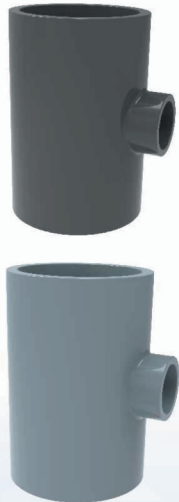
45°ELBOW(S×S) ANSI

Nominal	Socket Type			Structural Diameter		
SIZE	d1	d2	I	D	d	H
1/2"	21.54	21.23	24.00	29.20	16.00	30.20
3/4"	26.87	26.57	27.00	34.90	22.00	36.20
1"	33.55	33.27	30.00	43.00	30.00	41.00
1-1/4"	42.42	42.04	34.00	52.30	38.00	46.40
1-1/2"	48.56	48.11	37.00	58.90	43.00	52.30
2"	60.63	60.17	40.00	71.90	54.00	59.80
2-1/2"	73.38	72.85	46.50	87.60	67.00	70.00
3"	89.31	88.70	50.00	104.75	82.00	78.30
4"	114.76	114.10	60.00	132.00	106.00	96.30
5"	141.81	141.10	69.00	162.30	133.00	108.00
6"	168.83	168.00	76.50	190.80	158.00	132.30
8"	219.84	218.70	102.00	245.30	200.00	163.20
10"	273.81	272.67	128.00	305.80	262.50	188.00
12"	324.6	323.47	153.40	361.60	313.00	242.80



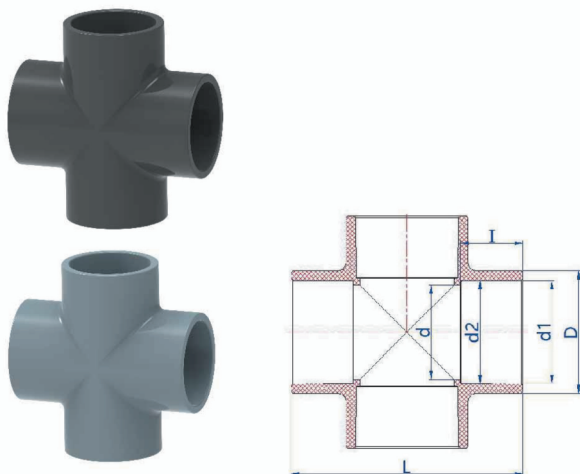
TEE(S×S) ANSI

Nominal	Socket Type			Structural Diameter			
SIZE	d1	d2	I	D	d	L	L1
1/2"	21.54	21.23	24.00	29.20	16.00	69.60	34.8
3/4"	26.87	26.57	27.00	34.90	22.00	82.00	40.9
1"	33.65	33.27	30.00	43.00	30.00	94.30	47.0
1-1/4"	42.42	42.04	34.00	52.30	38.00	108.50	54.3
1-1/2"	48.56	48.11	37.00	58.90	43.00	120.50	60.9
2"	60.63	60.17	40.00	71.90	54.00	140.70	70.1
2-1/2"	73.38	72.85	46.50	87.60	67.00	166.50	83.0
3"	89.31	88.70	50.00	104.75	82.00	188.00	93.6
4"	114.76	114.10	60.00	132.00	106.00	232.00	115.6
5"	141.81	141.00	76.00	162.30	133.00	298.50	149.0
6"	168.83	168.00	76.50	190.80	158.00	331.00	165.1
8"	219.84	218.70	102.00	245.30	200.00	432.00	215.9
10"	273.81	272.67	128.00	305.80	262.50	556.00	278.0
12"	324.60	323.47	153.40	361.60	313.00	656.80	328.50



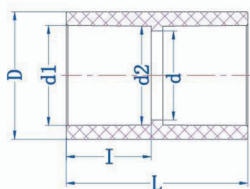
REDUCER TEE
(S×S×S) ANSI

Nominal	Socket Type						Structural Diameter				
SIZE	d1	d2	I1	d3	d4	I2	D1	D2	d	L	L1
3/4"×1/2"	26.87	26.57	27.0	21.54	21.23	24.00	35.00	30.00	22.00	76.5	37.3
1"×1/2"	33.65	33.27	30.0	21.54	21.23	24.00	44.00	30.00	30.00	87.7	40.3
1"×3/4"	33.65	33.27	30.0	26.87	26.57	27.00	44.00	35.00	30.00	87.7	43.4
1-1/4"×1/2"	42.42	42.04	34.0	21.54	21.23	24.00	54.00	30.00	38.00	100.5	44.3
1-1/4"×3/4"	42.42	42.04	34.0	26.87	26.57	27.00	54.00	35.00	38.00	100.5	47.4
1-1/4"×1"	42.42	42.04	34.0	33.65	33.27	30.00	54.00	44.00	38.00	100.5	51.5
1-1/2"×1/2"	48.56	48.11	37.0	21.54	21.23	24.00	60.00	30.00	44.00	113.5	47.8
1-1/2"×3/4"	48.56	48.11	37.0	26.87	26.57	27.00	60.00	35.00	44.00	113.5	50.9
1-1/2"×1"	48.56	48.11	37.0	33.65	33.27	30.00	60.00	44.00	44.00	113.5	54.0
1-1/2"×1-1/4"	48.56	48.11	37.0	42.42	42.04	34.00	60.00	54.00	44.00	113.5	59.5
2"×1/2"	60.63	60.17	41.0	21.54	21.23	24.00	73.00	30.00	54.00	113.5	53.8
2"×3/4"	60.63	60.17	41.0	26.87	26.57	27.00	73.00	35.00	54.00	113.5	57.0
2"×1"	60.63	60.17	41.0	33.65	33.27	30.00	73.00	44.00	54.00	113.5	60.5
2"×1-1/4"	60.63	60.17	41.0	42.42	42.04	34.00	73.00	54.00	54.00	129.0	63.8
2"×1-1/2"	60.63	60.17	41.0	48.56	48.11	37.0	73.0	60.0	54.0	129.0	67.0
2-1/2"×1"	73.38	72.85	46.5	33.65	33.27	30.0	88.0	44.0	67.0	154.4	66.5
2-1/2"×1-1/4"	73.38	72.85	46.5	42.42	42.04	34.0	88.0	54.0	67.0	154.4	70.0
2-1/2"×1-1/2"	73.38	72.85	46.5	48.56	48.11	37.0	88.0	60.0	67.0	154.2	73.5
2-1/2"×2"	73.38	72.85	46.5	60.63	60.17	41.0	88.0	73.0	67.0	154.2	76.5
3"×1-1/2"	89.31	88.70	50.0	48.56	48.11	37.0	105.0	60.0	82.0	172.0	81.5
3"×2"	89.31	88.70	50.0	60.63	60.17	41.0	105.0	73.0	82.0	172.0	84.5
3"×2-1/2"	89.31	88.70	50.0	73.38	72.85	46.5	105.0	88.0	82.0	172.0	91.5
4"×1-1/2"	114.76	114.10	60.0	48.56	48.11	37.0	132.0	60.0	106.0	180.2	94.0
4"×2"	114.76	114.10	60.0	60.63	60.17	41.0	132.0	73.0	106.0	180.2	97.0
4"×2-1/2"	114.76	114.10	60.0	73.38	72.85	46.5	132.0	88.0	106.0	208.0	104.0
4"×3"	114.76	114.10	60.0	89.31	88.70	50.0	132.00	105.0	106.0	208.0	107.5
5"×2"	141.81	141.04	67.8	60.63	60.17	39.1	161.6	73.0	133.0	285.6	112.0
6"×2"	168.83	168.0	77.2	60.63	60.17	39.1	192.0	73.0	160.0	332.5	125.3
6"×4"	168.86	168.0	77.2	114.76	114.07	58.2	192.0	132.0	160.0	332.5	164.2
8"×4"	219.84	218.69	102.6	114.76	114.07	58.2	246.5	132.0	208.0	435.2	170.4
8"×6"	219.84	218.69	102.6	168.83	168.0	77.2	246.5	192.0	208.0	435.2	190.2
10"×6"	273.81	272.67	128.0	168.83	168.0	77.2	306.0	192.0	262.5	446.6	218.0
10"×8"	273.81	272.67	128.0	219.84	218.69	102.6	306.0	246.5	262.5	496.5	243.0



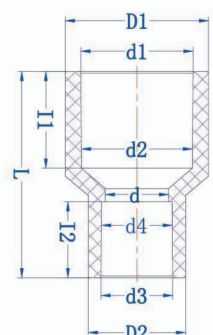
CROSS (S×S×S) ANSI

Nominal	Socket Type			Structural Diameter		
SIZE	d1	d2	I	D	d	L
1/2"	21.54	21.23	24.00	29.20	16.00	69.6
3/4"	26.87	26.57	27.00	34.90	22.00	82.0
1"	33.65	33.27	30.00	43.00	30.00	94.3
1-1/4"	42.42	42.04	34.00	52.30	38.00	108.5
1-1/2"	48.56	48.11	37.00	58.90	45.00	122.0
2"	60.63	60.17	40.00	71.90	56.00	143.0
2-1/2"	73.38	72.85	46.50	87.60	67.00	166.5
3"	89.31	88.70	50.00	104.75	82.00	188.0
4"	114.76	114.10	60.00	132.00	109.00	231.0
5"	141.81	141.00	76.00	162.30	133.00	298.5
6"	168.83	168.00	76.50	190.80	158.00	331.2
8"	219.84	218.70	102.00	245.30	200.00	432.0
10"	273.81	272.67	128.00	305.80	262.50	556.0



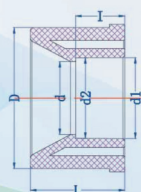
COUPLING (S×S) ANSI

Nominal	Socket Type			Structural Diameter		
SIZE	d1	d2	I	D	d	L
1/2"	21.54	21.23	24.00	29.20	16.00	50.00
3/4"	26.87	26.57	27.00	34.90	22.00	55.80
1"	33.65	33.27	30.00	43.00	30.00	62.50
1-1/4"	42.42	42.04	34.00	52.30	38.00	68.80
1-1/2"	48.56	48.11	37.00	58.90	43.00	76.00
2"	60.63	60.17	40.00	71.90	54.00	83.40
2-1/2"	73.38	72.85	46.50	87.60	67.00	97.00
3"	89.31	88.70	50.00	104.75	82.00	104.20
4"	114.76	114.10	60.00	132.00	106.00	125.60
5"	141.81	141.00	76.00	162.30	133.00	158.30
6"	168.83	168.00	76.50	190.80	158.00	159.50
8"	219.84	218.70	105.00	245.30	200.00	210.50
10"	273.81	272.67	128.00	305.80	262.50	266.00
12"	324.60	323.47	153.40	360.60	313.00	316.80



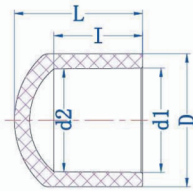
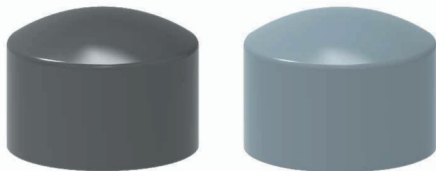
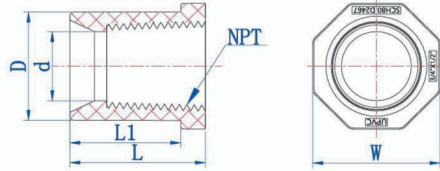
REDUCER COUPLING
(S×S) ANSI

Nominal	Socket Type						Structural Diameter			
SIZE	d1	d2	I1	d3	d4	I2	D1	D2	d	L
3/4"×1/2"	26.87	26.57	27.00	21.54	21.23	24.00	35.00	30.00	22.00	56.50
1"×1/2"	33.65	33.27	30.00	21.54	21.23	24.00	44.00	30.00	30.00	62.20
1"×3/4"	33.65	33.27	30.00	26.87	26.57	27.00	44.00	35.00	30.00	62.40
1-1/4"×1/2"	42.42	42.04	34.00	21.54	21.23	24.00	54.00	30.00	38.00	68.00
1-1/4"×3/4"	42.42	42.04	34.00	26.87	26.57	27.00	54.00	35.00	38.00	68.00
1-1/4"×1"	42.42	42.04	34.00	33.65	33.27	30.00	54.00	44.00	38.00	68.00
1-1/2"×1/2"	48.56	48.11	37.00	21.54	21.23	24.00	60.00	30.00	44.00	74.00
1-1/2"×3/4"	48.56	48.11	37.00	26.87	26.57	27.00	60.00	35.00	44.00	74.00
1-1/2"×1"	48.56	48.11	37.00	33.65	33.27	30.00	60.00	44.00	44.00	75.00
1-1/2"×1-1/4"	48.56	48.11	37.00	42.42	42.04	34.00	60.00	54.00	44.00	74.30
2"×1/2"	60.63	60.17	41.00	21.54	21.23	24.00	73.00	30.00	54.00	76.80
2"×3/4"	60.63	60.17	41.00	26.87	26.57	27.00	73.00	35.00	54.00	75.60
2"×1"	60.63	60.17	41.00	33.65	33.27	30.00	73.00	44.00	54.00	76.00
2"×1-1/4"	60.63	60.17	41.00	42.42	42.04	34.00	73.00	54.00	54.00	82.00
2"×1-1/2"	60.63	60.17	41.00	48.56	48.11	37.00	73.00	60.00	54.00	82.00
2-1/1"×1-1/4"	73.38	72.85	46.50	42.42	42.04	34.00	88.00	54.00	67.00	92.00
2-1/1"×1-1/2"	73.38	72.85	46.50	48.56	48.11	37.00	88.00	60.00	67.00	92.00
2-1/1"×2"	73.38	72.85	46.50	60.63	60.17	41.00	88.00	73.00	67.00	92.00
3"×1-1/2"	89.31	88.70	48.10	48.56	48.11	37.00	105.00	60.00	82.00	102.40
3"×2"	89.31	88.70	48.10	60.63	60.17	41.00	105.00	73.00	82.00	102.00
3×2-1/2	89.30	88.70	48.10	73.38	72.85	45.00	104.75	87.60	69.00	102.00
4"×1-1/2"	114.76	114.10	57.60	48.56	48.11	35.40	132.00	60.00	106.00	106.00
4"×2"	114.76	114.10	57.60	60.63	60.17	38.60	132.00	73.00	106.00	105.50
4"×2-1/2"	114.76	114.10	57.60	73.38	72.85	45.00	132.00	88.00	106.00	115.00
4"×3"	114.76	114.10	57.60	89.31	88.70	48.10	132.00	105.00	106.00	115.40



REDUCER BUSHING (S×S) ANSI

Nominal	Outside	Socket Type		Structural Diameter		
SIZE	D	d1	d2	d	I	L
3/4"×1/2"	26.67	21.54	21.23	17.00	24.00	33.00
1"×3/4"	33.40	26.87	26.57	22.50	27.00	36.00
1-1/4"×1"	42.16	33.65	33.27	28.00	30.00	40.00
1-1/2"×1-1/4"	48.26	42.42	42.04	38.00	34.00	45.00
2"×1-1/2"	60.33	48.56	48.11	42.00	37.00	49.00
2-1/2"×2"	73.03	60.63	60.17	54.00	41.00	55.00
3"×2"	88.90	60.63	60.17	54.00	47.00	60.00
3"×2-1/2"	88.90	73.38	72.85	66.00	47.00	60.00
4"×2-1/2"	114.30	73.38	72.85	65.00	50.00	68.00
4"×3"	114.30	89.31	88.70	80.00	50.00	68.00
5"×4"	141.30	114.76	114.10	97.10	60.00	85.00
6"×4"	168.28	114.76	114.10	97.10	60.00	92.50
6"×5"	168.28	141.81	141.00	121.00	69.00	92.50
8"×4"	219.08	114.76	114.10	97.10	60.00	120.00
8"×6"	219.08	168.83	168.00	146.00	79.00	120.00

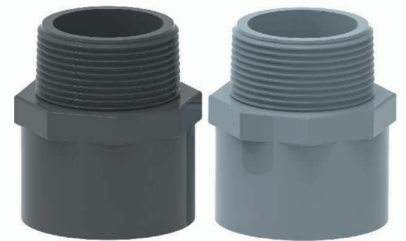
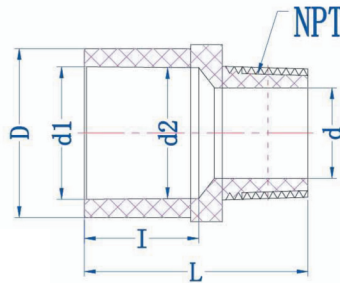
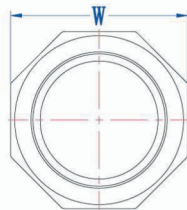


CAP ANSI

FEMALE REDUCER BUSHING(S×T) ANSI

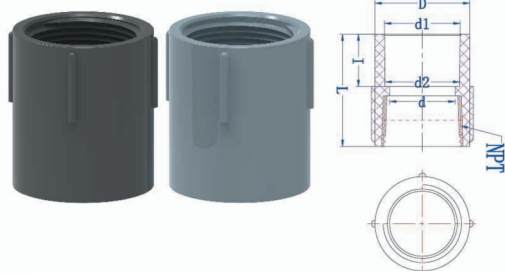
Nominal	Outside Dia		Structural Diameter			NPT
SIZE	D	d	L1	L	W	
1/2"×1/4"	21.34	8.00	23.50	28.00	24.50	1/4"
3/4"×1/2"	26.67	17.00	27.00	33.00	31.00	1/2"
1"×1/2"	33.40	17.00	30.00	36.00	38.00	1/2"
1"×3/4"	33.40	21.50	30.00	36.00	38.00	3/4"

Nominal	Socket Type			Structural Diameter	
SIZE	d1	d2	I	D	L
1/2"	21.54	21.23	24.00	30.00	35.00
3/4"	26.87	26.57	27.00	35.00	36.50
1"	33.65	33.27	30.00	44.00	42.00
1-1/4"	42.42	42.04	34.00	54.00	46.00
1-1/2"	48.56	48.11	37.00	60.00	50.50
2"	60.63	60.17	40.00	73.00	55.00
2-1/2"	73.38	72.85	46.50	88.00	67.50
3"	89.31	88.70	50.00	105.00	71.00
4"	114.76	114.10	60.00	132.00	82.00
5"	141.81	141.04	76.02	162.3	117.0
6"	168.83	168.0	77.2	191.0	123.6
8"	219.84	218.69	102.60	245.9	141.70
10"	273.80	272.67	128.00	305.8	186.25
12"	324.60	323.47	153.40	361.6	228.00



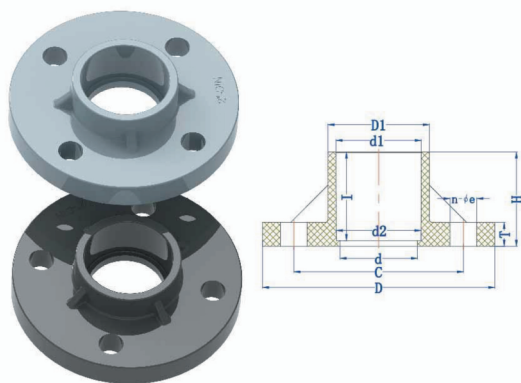
MALE ADAPTER(S×T) ANSI

Nominal	Outside Dia	Socket Type			Structural Diameter			
SIZE	D	d1	d2	I	W	d	L	NPT (Teeth/Inch)
1/2"	29.20	21.54	21.23	22.80	31.00	13.20	46.50	14
3/4"	34.90	26.87	26.57	25.90	37.00	19.00	49.40	14
1"	43.00	33.65	33.27	29.20	45.00	24.00	56.80	11.5
1-1/4"	52.30	42.42	42.04	32.25	55.00	32.00	58.50	11.5
1-1/2"	61.00	48.56	48.11	35.40	64.20	38.00	65.60	11.5
2"	75.00	60.63	60.17	38.60	78.20	50.00	70.30	11.5
2-1/2"	88.00	73.38	72.85	45.00	90.00	55.80	84.50	8
3"	105.30	89.31	88.70	51.50	108.00	67.20	98.70	8
4"	132.00	114.76	114.10	61.50	135.00	96.00	110.20	8



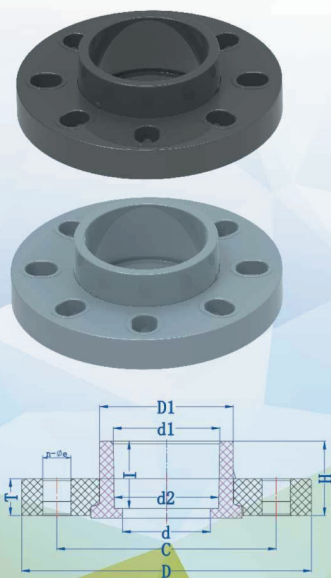
FEMALE ADAPTER(S×T) ANSI

Nominal	Outside Dia	Socket Type			Structural Diameter		
SIZE	D	d1	d2	I	d	L	NPT(Teeth/Inch)
1/2"	30.00	21.54	21.23	24.00	13.20	44.00	14
3/4"	35.00	26.87	26.57	27.00	19.00	50.00	14
1"	44.00	33.65	33.27	30.00	24.00	55.00	11.5
1-1/4"	54.00	42.42	42.04	34.00	32.00	62.00	11.5
1-1/2"	60.00	48.56	48.11	37.00	38.00	67.00	11.5
2"	73.00	60.63	60.17	40.00	50.00	73.00	11.5
2-1/2"	88.00	73.38	72.85	45.00	64.00	77.50	8
3"	105.30	89.31	88.70	51.50	78.00	83.60	8
4"	132.00	114.76	114.10	61.50	102.50	99.70	8



FLANGE ANSI

SIZE	D	D1	C	d	d1	d2	H	T	I	n- ϕ e
1/2"	89	32	60.50	15	21.54	21.23	35	14	30.0	4-16
3/4"	99	35	69.90	20	26.87	26.57	40	15	35.0	4-16
1"	108	43	79.50	28	33.65	33.27	45	16	40.0	4-16
1-1/4"	118	52	89.00	32	42.42	42.04	49	18	44.0	4-16
1-1/2"	127	59	98.50	43	48.56	48.11	59	18	35.0	4-16
2"	153	75	120.70	55	60.63	60.17	45	20	38.80	4-19
2-1/2"	178	89	139.70	65	73.38	72.85	70	20	44.5	4-19
3"	191	106	152.40	80	89.31	88.70	73	20	56.0	4-19
4"	230	132	190.50	100	114.76	114.10	66	22	57.30	8-19
5"	254	162	215.90	125	141.81	141.00	88	24	76.00	8-22
6"	279	185	241.30	150	168.83	168.00	91	26	76.20	8-22
8"	343	246	298.50	200	219.84	218.70	117	28	101.6	8-22



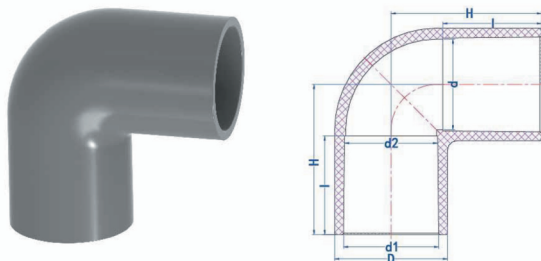
VAN STONE FLANGE ANSI

SIZE	D	D1	C	d	d1	d2	H	T	I	n- ϕ e
1/2"	95	30.6	60.45	15	21.54	21.23	26.0	14	21.6	4-15
3/4"	105	36.0	69.85	20	26.87	26.57	29.5	15	23.4	4-15
1"	125	43.8	79.25	25	33.65	33.27	32.2	16	28.7	4-19
1-1/4"	140	52.6	88.90	32	42.42	42.04	38.5	16	31.7	4-19
1-1/2"	150	60.7	98.55	40	48.56	48.11	40.5	18	35.0	4-19
2"	165	74.8	120.65	51	60.63	60.17	45.0	20	38.2	4-19
2-1/2"	185	89.6	139.70	63	73.38	72.85	51.0	24	45.0	4-19
3"	200	106.5	152.40	77	89.31	88.70	55.0	26	48.0	8-19
4"	229	133.0	190.50	102	114.76	114.10	64.0	28	57.5	8-19
5"	254	160.1	215.9	125	141.81	141.00	82.0	28	68.0	8-22
6"	285	187.1	241.30	156	168.83	168.00	87.0	32	76.8	8-22
8"	343	247.1	298.45	204	219.84	218.70	116.0	35	104.2	8-22
10"	406	305.0	362.0	256	273.81	272.67	150.0	42	128.6	12-25
12"	483	344.6	432.0	307	324.61	323.47	190.0	52	172.0	12-25

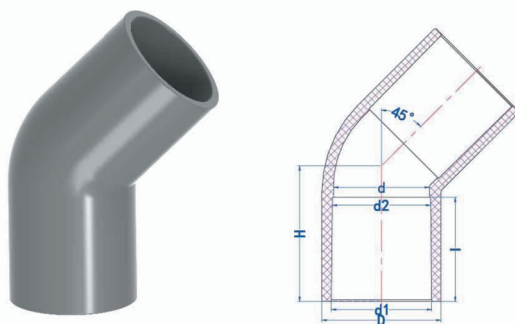
3.UPVC、CPVC (JIS)

Implementation Standards: JIS K6743 JIS K6777

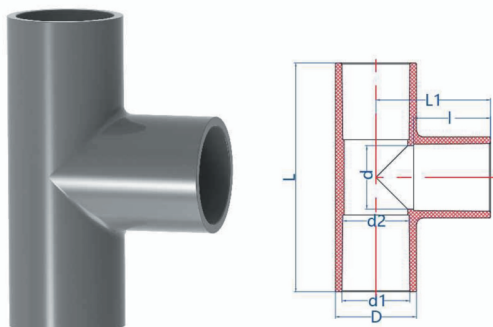
Conform To: JIS K6743 JIS K6777



90° ELBOW (S×S) JIS



45° ELBOW (S×S) JIS

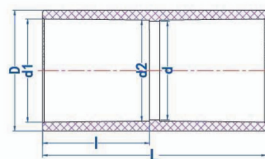


TEE (S×S) JIS

Nominal SIZE	Socket Type			Structural Diameter		
	d1	d2	I	D	d	H
16A	22.40	21.52	30.0	29.5	20.0	42.0
20A	26.45	25.42	35.0	34.0	24.0	50.0
25A	32.55	31.37	40.0	41.0	30.0	58.0
32A	38.60	37.31	44.0	47.0	36.0	65.0
40A	48.70	47.21	55.0	58.0	46.0	82.0
50A	60.80	59.10	63.0	72.0	58.0	96.0
65A	76.60	75.30	64.0	88.0	73.8	110.0
75A	89.60	88.29	64.0	106.0	86.8	120.0
100A	114.70	113.20	84.0	135.0	110.8	150.0
150A	166.00	163.40	132.0	190.0	158.0	223.7

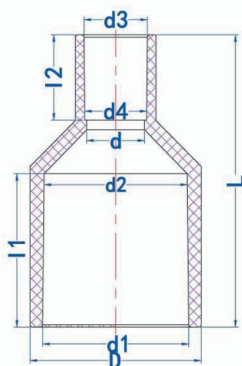
Nominal SIZE	Socket Type			Structural Diameter		
	d1	d2	I	D	d	H
16A	22.40	21.52	30.0	29.5	19.0	38.2
20A	26.45	25.42	35.0	34.0	24.0	44.0
25A	32.55	31.37	40.0	41.0	30.0	50.2
32A	38.60	37.31	44.0	47.0	36.0	55.5
40A	48.70	47.21	55.0	58.0	46.0	71.5
50A	60.80	59.10	63.0	72.0	58.0	82.0
65A	76.60	75.30	64.0	88.0	71.5	86.3
75A	89.60	88.29	64.0	106.0	86.8	98.0
100A	114.70	113.20	84.0	135.0	108.8	118.0
150A	166.00	163.40	132.0	190.0	158.0	176.0

Nominal SIZE	Socket Type			Structural Diameter			
	d1	d2	I	D	d	L	L1
16A	22.40	21.52	30.0	29.5	20.0	84.50	42.0
20A	26.45	25.42	35.0	34.0	23.5	100.30	50.0
25A	32.55	31.37	40.0	41.0	30.0	111.40	58.0
32A	38.60	37.31	44.0	47.0	36.0	130.40	65.0
40A	48.70	47.21	55.0	58.0	45.5	164.80	82.0
50A	60.80	59.10	63.0	72.0	57.0	192.50	96.0
65A	76.60	75.30	64.0	88.0	73.8	212.60	106.0
75A	89.60	88.29	64.0	102.0	86.8	225.40	112.5
100A	114.70	113.20	84.0	129.5	110.0	284.40	144.5
150A	166.00	163.40	132.0	190.0	158.0	447.50	223.7



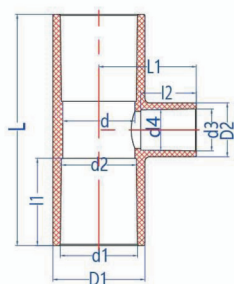
COUPLING (S×S) JIS

Nominal	Socket Type			Structural Diameter		
SIZE	d1	d2	I	D	d	L
16A	22.40	21.52	30.0	29.5	20.0	64.3
20A	26.45	25.42	35.0	34.0	24.0	74.2
25A	32.55	31.37	40.0	41.0	30.0	84.3
32A	38.60	37.31	44.0	47.0	36.0	92.0
40A	48.70	47.21	55.0	58.0	46.0	115.3
50A	60.80	59.10	63.0	72.0	58.0	132.3
65A	76.60	75.30	64.0	88.0	73.8	135.2
75A	89.60	88.29	64.0	106.0	86.8	136.7
100A	114.70	113.20	84.0	135.0	110.8	178.3
150A	166.00	163.40	132.0	190.0	158.0	271.0



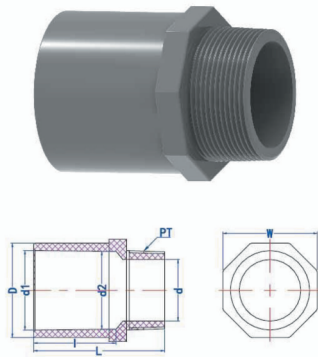
REDUCER COUPLING
(S×S) JIS

Nominal	Socket Type						Structural Diameter		
SIZE	d1	d2	I1	d3	d4	I2	D	d	L
20A*16A	26.45	25.42	35.0	22.40	21.52	30.0	34.0	20.0	73.9
25A*16A	32.55	31.37	40.0	22.40	21.52	30.0	41.0	20.0	79.5
25A*20A	32.55	31.37	40.0	26.45	25.42	35.0	41.0	24.0	88.3
32A*16A	38.60	37.31	44.0	22.40	21.52	30.0	47.0	20.0	89.5
32A*20A	38.60	37.31	44.0	26.45	25.42	35.0	47.0	24.0	88.5
32A*25A	38.60	37.31	44.0	26.45	25.42	35.0	47.0	30.0	93.5
40A*16A	48.70	47.21	55.0	22.40	21.52	30.0	58.0	20.0	103.5
40A*20A	48.70	47.21	55.0	26.45	25.42	35.0	58.0	24.0	105.2
40A*25A	48.70	47.21	55.0	32.55	31.37	40.0	58.0	30.0	106.2
40A*32A	48.70	47.21	55.0	38.60	37.31	44.0	58.0	36.0	108.0
50A*16A	60.80	59.10	63.0	22.40	21.52	30.0	72.0	20.0	120.5
50A*20A	60.80	59.10	63.0	26.45	25.42	35.0	72.0	24.0	120.5
50A*25A	60.80	59.10	63.0	32.55	31.37	40.0	72.0	30.0	121.8
50A*32A	60.80	59.10	63.0	38.60	37.31	44.0	72.0	36.0	122.2
50A*40A	60.80	59.10	63.0	48.70	47.21	55.0	72.0	46.0	132.0
65A*25A	76.60	75.30	64.0	32.55	31.37	40.0	88.0	30.0	124.0
65A*32A	76.60	75.30	64.0	38.60	37.31	44.0	88.0	36.0	128.0
65A*40A	76.60	75.30	64.0	48.70	47.21	55.0	88.0	46.0	137.3
65A*50A	76.60	75.30	64.0	60.80	59.10	63.0	88.0	58.0	145.0
75A*40A	89.60	88.29	64.0	48.70	47.21	55.0	106.0	46.0	142.4
75A*50A	89.60	88.29	64.0	60.80	59.10	63.0	106.0	58.0	150.0
75A*65A	89.60	88.29	64.0	76.60	75.30	64.0	106.0	73.8	145.0
100A*40A	114.70	113.20	84.0	48.70	47.21	55.0	135.0	46.0	170.0
100A*50A	114.70	113.20	84.0	60.80	59.10	63.0	135.0	58.0	183.3
100A*65A	114.70	113.20	84.0	76.60	75.30	64.0	135.0	73.8	179.0
100A*75A	114.70	113.20	84.0	89.60	88.29	64.0	135.0	86.8	180.0



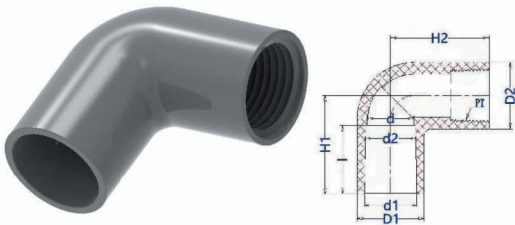
REDUCER TEE
(S×S×S) JIS

Nominal	Socket Type						Structural Diameter				
SIZE	d1	d2	I1	d3	d4	I2	D1	D2	d	L	L1
20A*16A	26.45	25.42	35.0	22.40	21.52	30.0	34.0	29.2	23.5	90.5	45.0
25A*16A	32.55	31.37	40.0	22.40	21.52	30.0	41.0	29.2	30.0	105.4	48.0
25A*20A	32.55	31.37	40.0	26.45	25.42	35.0	41.0	34.0	30.0	105.4	53.0
32A*16A	38.60	37.31	44.0	22.40	21.52	30.0	51.0	29.2	36.0	118.5	52.0
32A*20A	38.60	37.31	44.0	26.45	25.42	35.0	51.0	34.0	36.0	118.5	56.0
32A*25A	38.60	37.31	44.0	26.45	25.42	35.0	51.0	41.0	36.0	118.5	63.0
40A*16A	48.70	47.21	55.0	22.40	21.52	30.0	58.0	29.2	45.5	146.5	56.0
40A*20A	48.70	47.21	55.0	26.45	25.42	35.0	58.0	34.0	45.5	146.5	61.5
40A*25A	48.70	47.21	55.0	32.55	31.37	40.0	58.0	41.0	45.5	146.5	66.5
40A*32A	48.70	47.21	55.0	38.60	37.31	44.0	58.0	47.0	45.5	146.5	70.0
50A*16A	60.80	59.10	63.0	22.40	21.52	30.0	70.0	29.2	57.0	156.5	62.0
50A*20A	60.80	59.10	63.0	26.45	25.42	35.0	70.0	34.0	57.0	156.5	67.0
50A*25A	60.80	59.10	63.0	32.55	31.37	40.0	70.0	41.0	57.0	156.5	72.0
50A*32A	60.80	59.10	63.0	38.60	37.31	44.0	70.0	47.0	57.0	170.4	76.0
50A*40A	60.80	59.10	63.0	48.70	47.21	55.0	70.0	58.0	57.0	170.4	87.0
50A*65A	60.80	59.10	63.0	76.60	75.30	64.0	70.0	88.0	56.0	208.0	94.0
65A*16A	76.60	75.30	64.0	22.40	21.52	32.0	88.0	29.2	73.8	183.6	95.5
65A*20A	76.60	75.30	64.0	26.45	25.42	35.0	88.0	34.0	73.8	183.6	95.5
65A*25A	76.60	75.30	64.0	32.55	31.37	40.0	88.0	41.0	73.8	183.6	95.5
65A*32A	76.60	75.30	64.0	38.60	37.31	44.0	88.0	47.0	73.8	183.6	95.5
65A*40A	76.60	75.30	64.0	48.70	47.21	55.0	88.0	58.0	73.8	183.6	95.5
65A*50A	76.60	75.30	64.0	60.80	59.10	63.0	88.0	70.0	73.8	183.6	104.0
75A*20A	89.60	88.29	64.0	26.45	25.42	38.0	102.0	34.0	86.8	198.7	88.0
75A*25A	89.60	88.29	64.0	32.55	31.37	40.0	102.0	41.0	86.8	198.7	88.0
75A*40A	89.60	88.29	64.0	48.70	47.21	55.0	102.0	58.0	86.8	198.7	103.0
75A*50A	89.60	88.29	64.0	60.80	59.10	63.0	102.0	70.0	86.8	198.7	111.0
75A*65A	89.60	88.29	64.0	76.60	75.30	64.0	102.0	88.0	86.8	198.7	112.0
100A*40A	114.70	113.20	84.0	48.70	47.21	55.0	129.4	58.0	110.0	253.5	114.5
100A*50A	114.70	113.20	84.0	60.80	59.10	63.0	129.4	70.0	110.0	253.5	122.5
100A*65A	114.70	113.20	84.0	76.60	75.30	64.0	129.4	88.0	110.0	253.5	124.5
100A*75A	114.70	113.20	84.0	89.60	88.29	64.0	129.4	102.0	110.0	253.5	124.5



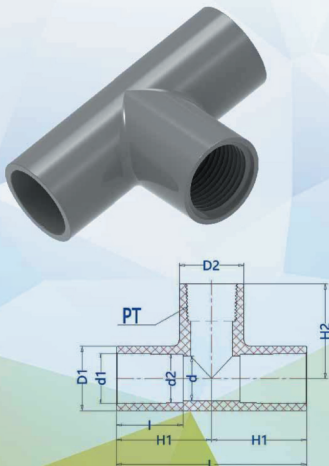
MALE ADAPTER (S×T) JIS

Nominal	Socket Type			Structural Diameter				
SIZE	d1	d2	I	D	d	L	W	NPT (Teeth/Inch)
16A*1/2"	22.40	21.52	30.0	29.0	13.0	53.5	29.0	14
20A*3/4"	26.45	25.42	35.0	34.0	17.0	61.5	34.0	14
25A*1"	32.55	31.37	40.0	41.0	22.5	69.5	41.0	11
32A*1-1/4"	38.60	37.31	44.0	47.0	31.0	73.0	47.0	11
40A*1-1/2"	48.70	47.21	55.0	58.0	36.0	86.0	58.0	11
50A*2"	60.80	59.10	63.0	72.0	47.0	100.0	72.0	11
65A*2-1/2"	76.60	75.30	64.0	88.0	62.5	116.0	88.0	11



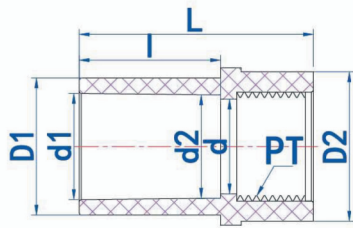
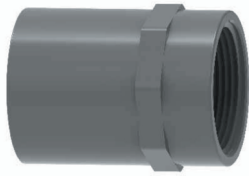
FEMALE ELBOW (S×T) JIS

Nominal	Socket Type			Structural Diameter				
SIZE	d1	d2	I	D1	D2	d	H1	H2 NPT (Teeth/Inch)
16A*1/2"	22.40	21.52	30.0	29.5	29.5	18.0	42.0	42.0 14
20A*3/4"	26.45	25.42	35.0	34.0	34.0	23.5	50.0	50.0 14
25A*1"	32.55	31.37	40.0	41.0	41.0	28.0	58.0	58.0 11
32A*1-1/4"	38.60	37.31	44.0	47.0	47.0	36.0	65.0	65.0 11
40A*1-1/2"	48.70	47.21	55.0	58.0	58.0	46.0	82.0	82.0 11
50A*12"	60.80	59.10	63.0	72.0	72.0	58.0	96.0	96.0 11



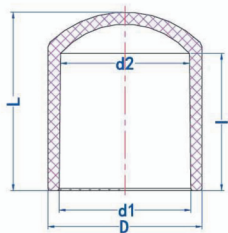
FEMALE TEE (S×T) JIS

Nominal	Socket Type			Structural Diameter					
SIZE	d1	d2	I	D1	D2	d	H1	H2	L NPT (Teeth/Inch)
16A*1/2"	22.40	21.52	30.0	29.5	29.5	17.0	42.0	42.0	84.0 14
20A*3/4"	26.45	25.42	35.0	34.0	34.0	22.0	50.0	50.0	100.0 14
25A*1"	32.55	31.37	40.0	41.0	41.0	28.0	58.0	58.0	116.0 11
32A*1-1/4"	38.60	37.31	44.0	47.0	47.0	34.0	65.2	65.2	130.40 11
40A*1-1/2"	48.70	47.21	55.0	58.0	58.0	43.5	82.4	82.4	164.80 11
50A*12"	60.80	59.10	63.0	72.0	72.0	57.0	96.25	96.25	192.50 11



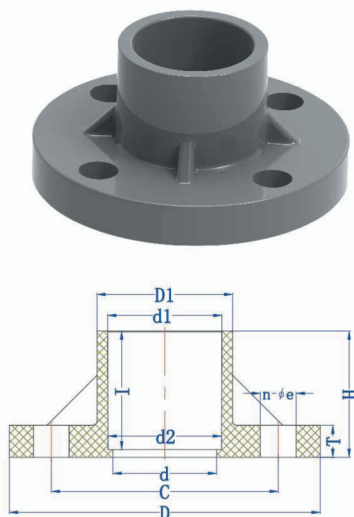
FEMALE ADAPTER (S×T) JIS

Nominal	Socket Type			Structural Diameter				
SIZE	d1	d2	I	D1	D2	d	L	NPT (Teeth/Inch)
16A*1/2"	22.40	21.52	30.0	29.5	32.5	18.0	49.0	14
20A*3/4"	26.45	25.42	35.0	34.0	42.0	23.5	58.0	14
25A*1"	32.55	31.37	40.0	41.0	50.0	30.0	66.0	11
32A*1-1/4"	38.60	37.31	44.0	47.0	55.0	36.0	71.0	11
40A*1-1/2"	48.70	47.21	55.0	58.0	63.0	46.0	83.0	11
50A*2"	60.80	59.10	63.0	72.0	77.0	58.0	94.0	11



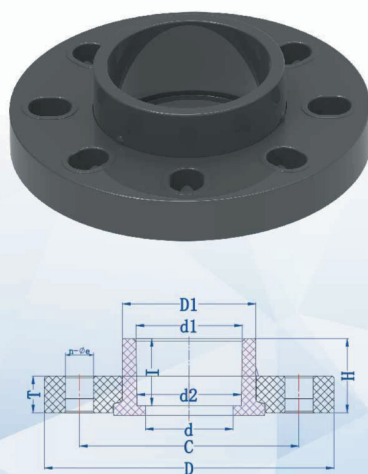
CAP JIS

Nominal	Socket Type			Structural Diameter	
SIZE	d1	d2	I	D	L
16A	22.40	21.52	30.0	29.5	42.8
20A	26.45	25.42	35.0	34.0	48.0
25A	32.55	31.37	40.0	41.0	54.6
32A	38.60	37.31	44.0	47.0	59.0
40A	48.70	47.21	55.0	58.0	71.0
50A	60.80	59.10	63.0	72.0	82.0
65A	76.60	75.30	64.0	88.0	81.0
75A	89.60	88.29	64.0	106.0	86.0
100A	114.70	113.20	84.0	135.0	112.0



FLANGE JIS

SIZE	D	D1	C	d	d1	d2	H	T	I	n-φ e
16A	95	32	70	15	22.40	21.52	35.0	14	30.0	4-15
20A	100	35	75	20	26.45	25.42	40.0	15	35.0	4-15
25A	125	43	90	25	32.55	31.37	45.0	16	40.0	4-19
32A	135	52	100	32	38.60	37.31	49.0	18	44.0	4-19
40A	140	59	105	43	48.70	47.21	59.0	18	55.0	4-19
50A	155	72	120	55	60.80	59.10	70.0	20	63.0	4-19
65A	175	89	140	65	76.60	75.30	70.0	20	64.0	4-19
75A	185	106	150	80	89.60	88.29	73.0	20	64.0	8-19
100A	210	132	175	100	114.70	113.20	93.0	22	84.0	8-19
125A	250	162	210	125	140.85	139.6	88.0	24	84.0	8-23
150A	280	185	240	154	166.00	164.40	116.0	25	100.0	8-23
200A	330	246	290	200	217.4	215.2	116.0	26	102.0	12-23



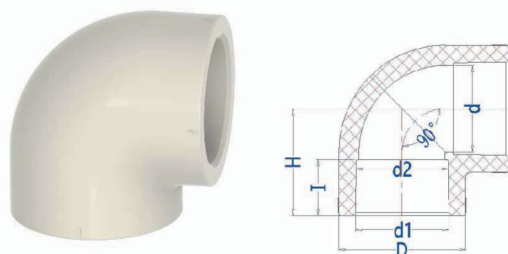
VAN STONE FLANGE JIS

SIZE	D	D1	C	d	d1	d2	H	T	I	n-φ e
16A	95.0	30.6	70	15	22.40	21.52	26.0	14	21.6	4-15
20A	100.0	36.0	75	20	26.45	25.42	29.5	15	23.4	4-15
25A	125.0	43.8	90	25	32.55	31.37	32.2	16	28.7	4-19
32A	135.0	52.6	100	30	38.60	37.31	38.5	16	31.7	4-19
40A	140.0	60.7	105	40	48.70	47.21	40.5	18	35.0	4-19
50A	155.0	74.8	120	50	60.80	59.10	45.0	20	38.2	4-19
65A	175.0	89.6	140	65	76.60	75.30	51.0	24	45.0	4-19
75A	185.0	106.5	150	80	89.60	88.29	55.0	26	48.0	8-19
100A	210.0	133.0	175	100	114.70	113.20	64.0	28	57.5	8-19
125A	250.0	160.1	210	125	140.85	139.6	82.0	28	67.2	8-23
150A	280.0	187.1	240	150	166.00	164.50	87.0	32	76.8	8-23
200A	330.0	237.1	290	200	217.40	215.20	116.0	35	104.2	12-23
250A	400.0	293.8	355	250	268.60	266.20	150.0	42	128.6	12-25
300A	445.0	344.6	400	300	319.80	316.20	190.0	52	172.0	16-25

4. PPH/PPR Pipe Fittings

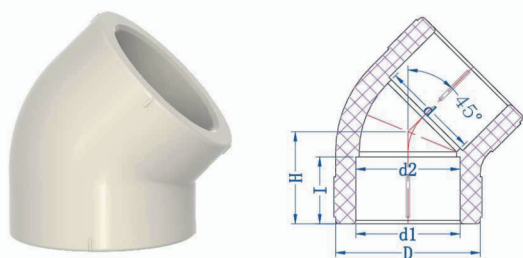
Implementation Standards: GB/T 18742.3-2017

Conform To: GB/T 18742.3-2017



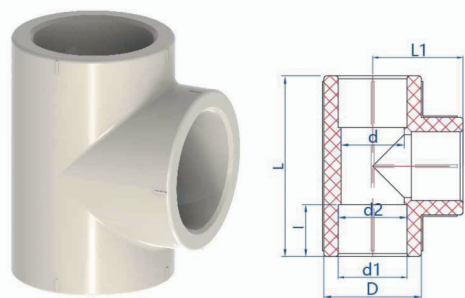
90° ELBOW (S×S)

Nominal	Socket Type			Structural Diameter		
SIZE	d1	d2	I	D	d	H
20	19.3	19.0	15.0	26.5	17.0	25.0
25	24.1	23.8	16.5	33.0	22.0	30.0
32	31.0	30.7	18.5	42.2	29.0	35.6
40	39.0	38.6	21.0	53.0	36.5	42.0
50	49.0	48.6	24.0	66.0	46.0	50.0
63	61.9	61.4	28.0	83.5	59.0	60.5
75	73.6	72.3	31.5	94.6	70.0	70.0
90	88.3	86.9	36.0	113.5	85.0	82.0
110	108.0	106.4	42.0	138.7	104.0	98.0



45° ELBOW (S×S)

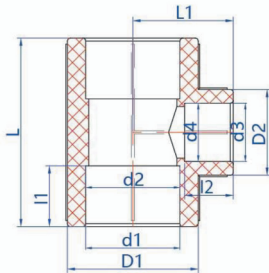
Nominal	Socket Type			Structural Diameter		
SIZE	d1	d2	I	D	d	H
20	19.3	19.0	16.0	28.0	17.0	21.4
25	24.1	23.8	18.0	34.0	22.0	24.5
32	31.0	30.7	20.0	43.0	29.0	28.0
40	39.0	38.6	22.0	53.0	35.0	30.5
50	49.0	48.6	25.0	66.5	45.0	35.5
63	61.9	61.4	29.0	84.5	59.0	42.0
75	73.6	72.3	31.5	95.0	70.0	48.0
90	88.3	86.9	36.0	113.5	85.0	55.5
110	108.0	106.4	42.0	138.5	104.0	65.5



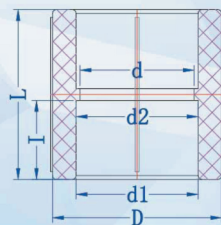
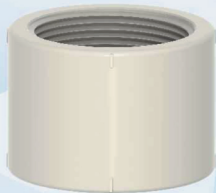
TEE (S×S)

Nominal	Socket Type			Structural Diameter			
SIZE	d1	d2	I	D	d	L	L1
20	19.3	19.0	16.0	28.0	17.0	54.0	27.0
25	24.1	23.8	18.0	34.0	22.0	63.0	31.5
32	31.0	30.7	20.0	43.0	29.0	74.0	37.0
40	39.0	38.6	22.0	53.0	35.0	85.0	43.0
50	49.0	48.6	25.0	66.5	45.0	102.0	51.0
63	61.9	61.4	29.0	84.5	59.0	123.0	61.5
75	73.6	72.3	31.5	95.0	70.0	140.0	70.0
90	88.3	86.9	36.0	113.5	85.0	164.0	82.0
110	108.0	106.4	42.0	138.5	104.0	196.0	98.0

REDUCER TEE (S×S×S)

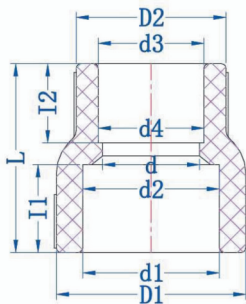


Nominal	Socket Type						Structural Diameter				
SIZE	d1	d2	I1	d3	d4	I2	D1	D2	d	L	L1
25*20	24.1	23.8	18.0	19.3	19.0	16.0	34.0	28.0	22.0	58.0	29.0
32*20	31.0	30.7	20.0	19.3	19.0	16.0	43.0	28.0	29.0	62.0	33.0
32*25	31.0	30.7	20.0	24.1	23.8	18.0	43.0	34.0	29.0	67.0	34.0
40*20	39.0	38.6	22.0	19.3	19.0	16.0	53.0	28.0	35.0	68.0	35.5
40*25	39.0	38.6	22.0	24.1	23.8	18.0	53.0	34.0	35.0	72.0	37.5
40*32	39.0	38.6	22.0	31.0	30.7	20.0	53.0	43.0	35.0	79.0	39.5
50*20	49.0	48.6	25.0	19.3	19.0	16.0	66.5	28.0	45.0	74.0	40.5
50*25	49.0	48.6	25.0	24.1	23.8	18.0	66.5	34.0	45.0	78.0	42.5
50*32	49.0	48.6	25.0	31.0	30.7	20.0	66.5	43.0	45.0	85.0	44.5
50*40	49.0	48.6	25.0	39.0	38.6	22.0	66.5	53.0	45.0	93.0	46.5
63*20	61.9	61.4	29.0	19.3	19.0	16.0	84.5	28.0	59.0	82.0	47.5
63*25	61.9	61.4	29.0	24.1	23.8	18.0	84.5	34.0	59.0	86.0	49.5
63*32	61.9	61.4	29.0	31.0	30.7	20.0	84.5	43.0	59.0	93.0	51.5
63*40	61.9	61.4	29.0	39.0	38.6	22.0	84.5	53.0	59.0	101.0	53.5
63*50	61.9	61.4	29.0	49.0	48.6	25.0	84.5	66.5	59.0	111.0	56.5
75*32	73.6	72.3	31.5	31.0	30.7	20.0	95.0	43.0	70.0	100.0	58.5
75*40	73.6	72.3	31.5	39.0	38.6	22.0	95.0	53.0	70.0	106.0	60.5
75*50	73.6	72.3	31.5	49.0	48.6	25.0	95.0	66.5	70.0	116.0	63.5
75*63	73.6	72.3	31.5	61.9	61.4	29.0	95.0	84.5	70.0	130.0	67.5
90*40	88.3	86.9	36.0	39.0	38.6	22.0	113.5	53.0	85.0	115.0	68.0
90*50	88.3	86.9	36.0	49.0	48.6	25.0	113.5	66.5	85.0	125.0	71.0
90*63	88.3	86.9	36.0	61.9	61.4	29.0	113.5	84.5	85.0	139.0	75.0
90*75	88.3	86.9	36.0	73.6	72.3	31.5	113.5	95.0	85.0	150.0	77.5
110*50	107.9	106.4	42.0	49.0	48.6	25.0	138.5	66.5	104.0	137.0	81.0
110*63	107.9	106.4	42.0	61.9	61.4	29.0	138.5	84.5	104.0	151.0	85.0
110*75	107.9	106.4	42.0	73.6	72.3	31.5	138.5	95.0	104.0	162.0	87.5
110*90	107.9	106.4	42.0	88.3	86.9	36.0	138.5	113.5	104.0	177.0	92.0



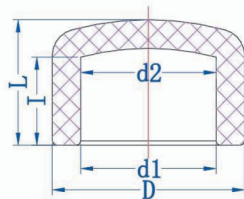
COUPLING (S×S)

Nominal	Socket Type			Structural Diameter		
SIZE	d1	d2	I	D	d	L
20	19.3	19.0	16.0	28.0	17.0	35.0
25	24.1	23.8	18.0	34.0	22.0	39.0
32	31.0	30.7	20.0	43.0	29.0	43.0
40	39.0	38.6	22.0	53.0	35.0	47.0
50	49.0	48.6	25.0	66.5	45.0	53.0
63	61.9	61.4	29.0	84.5	59.0	61.0
75	73.6	72.3	31.5	95.0	70.0	67.0
90	88.3	86.9	36.0	113.5	85.0	77.0
110	108.0	106.4	42.0	138.5	104.0	90.0



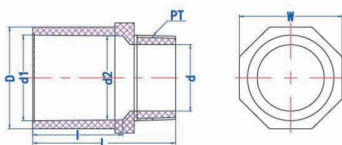
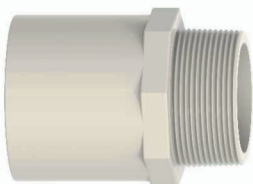
REDUCER COUPLING
(S×S)

Nominal	Socket Type						Structural Diameter			
SIZE	d1	d2	I1	d3	d4	I2	D1	D2	d	L
25*20	24.1	23.8	18.0	19.3	19.0	16.0	34.0	28.0	17.0	38.0
32*20	31.0	30.7	20.0	19.3	19.0	16.0	43.0	28.0	17.0	45.0
32*25	31.0	30.7	20.0	24.1	23.8	18.0	43.0	34.0	22.0	48.0
40*20	39.0	38.6	22.0	19.3	19.0	16.0	53.0	28.0	17.0	48.0
40*25	39.0	38.6	22.0	24.1	23.8	18.0	53.0	34.0	22.0	50.0
40*32	39.0	38.6	22.0	31.0	30.7	20.0	53.0	43.0	29.0	52.0
50*20	49.0	48.6	25.0	19.3	19.0	16.0	66.5	28.0	17.0	54.0
50*25	49.0	48.6	25.0	24.1	23.8	18.0	66.5	34.0	22.0	56.0
50*32	49.0	48.6	25.0	31.0	30.7	20.0	66.5	43.0	29.0	58.0
50*40	49.0	48.6	25.0	39.0	38.6	22.0	66.5	53.0	35.0	60.0
63*20	61.9	61.4	29.0	19.3	19.0	16.0	84.5	28.0	17.0	61.5
63*25	61.9	61.4	29.0	24.1	23.8	18.0	84.5	34.0	22.0	63.5
63*32	61.9	61.4	29.0	31.0	30.7	20.0	84.5	43.0	29.0	65.5
63*40	61.9	61.4	29.0	39.0	38.6	22.0	84.5	53.0	35.0	67.5
63*50	61.9	61.4	29.0	49.0	48.6	25.0	84.5	66.5	45.0	70.5
75*32	73.6	72.3	31.5	31.0	30.7	20.0	95.0	43.0	29.0	70.0
75*40	73.6	72.3	31.5	39.0	38.6	22.0	95.0	53.0	35.0	72.0
75*50	73.6	72.3	31.5	49.0	48.6	25.0	95.0	66.5	45.0	75.0
75*63	73.6	72.3	31.5	61.9	61.4	29.0	95.0	84.5	59.0	79.0
90*40	88.3	86.9	36.0	39.0	38.6	22.0	113.5	53.0	35.0	81.0
90*50	88.3	86.9	36.0	49.0	48.6	25.0	113.5	66.5	45.0	84.0
90*63	88.3	86.9	36.0	61.9	61.4	29.0	113.5	84.5	59.0	88.0
90*75	88.3	86.9	36.0	73.6	72.3	31.5	113.5	95.0	70.0	90.5
110*50	107.9	106.4	42.0	49.0	48.6	25.0	138.5	66.5	45.0	95.0
110*63	107.9	106.4	42.0	61.9	61.4	29.0	138.5	84.5	59.0	99.0
110*75	107.9	106.4	42.0	73.6	72.3	31.5	138.5	138.5	70.0	101.5
110*90	107.9	106.4	42.0	88.3	86.9	36.0	138.5	138.5	85.0	105.0



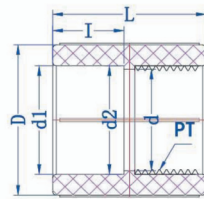
CAP

Nominal	Socket Type			Structural Diameter	
SIZE	d1	d2	I	D	L
20	19.3	19.0	16.0	28.0	22.5
25	24.1	23.8	18.0	34.0	25.0
32	31.0	30.7	20.0	43.0	28.5
40	39.0	38.6	22.0	53.0	32.0
50	49.0	48.6	25.0	66.5	37.5
63	61.9	61.4	29.0	84.5	44.0
75	73.6	72.3	31.5	95.0	47.0
90	88.3	86.9	36.0	113.5	55.3
110	108.0	106.4	42.0	138.5	64.0



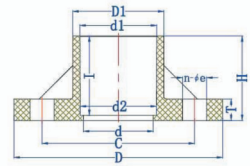
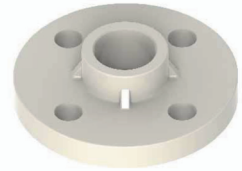
MALE ADAPTER (S×T)

Nominal	Socket Type			Structural Diameter				
SIZE	d1	d2	I	D	d	L	W	NPT(Teeth/Inch)
20*1/2"	19.3	19.0	16.5	27.0	13.0	38.5	30.0	14
25*3/4"	24.1	23.8	19.0	33.0	18.0	45.0	35.0	14
32*1"	31.0	30.7	29.0	43.0	23.0	56.8	45.0	11
40*1-1/4"	39.0	38.6	26.5	49.0	31.0	57.5	51.0	11
50*1-1/2"	49.0	48.6	35.4	61.0	37.0	67.4	64.0	11
63*2"	61.9	61.4	38.5	75.0	48.0	76.0	78.0	11



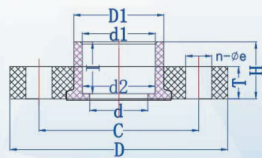
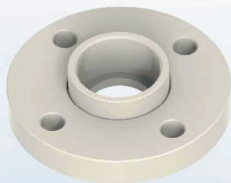
FEMALE ADAPTER (S×T)

Nominal	Socket Type			Structural Diameter			
SIZE	d1	d2	I	D	d	L	PT(Teeth/Inch)
20*1/2	19.3	19.0	16.0	28.0	17.0	35.0	14
25*3/4"	24.1	23.8	18.0	34.0	22.0	39.0	14
32*1"	31.0	30.7	20.0	43.0	29.0	43.0	11
40*1-1/4"	39.0	38.6	22.0	53.0	35.0	47.0	11
50*1-1/2"	49.0	48.6	25.0	66.5	45.0	53.0	11
63*2"	61.9	61.4	29.0	84.5	59.0	61.0	11



FLANGE

SIZE	D	D1	C		d	d1		d2		H	T	I	n-fe	
			DIN	JIS		DIN	JIS	DIN	JIS				DIN	JIS
20	95	32	65	70	15	19.3	22.30	19.0	21.78	35	14	32	4-15	4-15
25	105	35	75	75	20	24.1	26.30	23.8	25.70	40	15	37	4-15	4-15
32	125	42	85	90	25	31.0	32.33	30.7	31.67	45	16	40	4-19	4-19
40	140	52	100	100	32	39.0	38.43	38.6	37.57	49	16	44	4-19	4-19
50	150	62	110	105	43	49.0	48.46	48.6	47.54	59	18	54	4-19	4-19
63	165	76	125	120	55	61.9	60.56	61.4	59.44	66	20	61	4-19	4-19
75	185	90	145	140	65	73.6	76.88	72.3	75.90	70	22	61	4-19	4-19
90	200	108	160	150	80	88.3	89.67	86.9	88.86	73	22	64.5	8-19	8-19
110	220	132	180	175	100	108.0	114.97	106.4	113.80	93	22	83.5	8-19	8-19



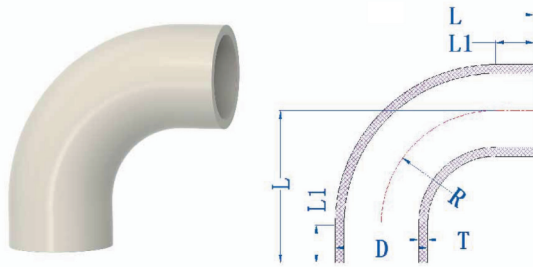
VAN STONE FLANGE

SIZE	D	C	d	D1	d1	d2	I	H	T	n-fe
20	95	65	15	29.0	19.30	19.00	23.00	28	16	4-14
25	105	75	20	34.0	24.10	23.80	26.00	30	17	4-14
32	115	85	25	42.0	31.00	30.70	29.00	34	18	4-18
40	140	100	32	52.0	39.00	38.60	33.00	37	20	4-18
50	150	110	40	61.0	49.00	48.60	35.50	40	22	4-18
63	165	125	50	75.0	61.90	61.40	38.50	45	24	4-18
75	183	145	65	91.0	73.60	72.30	64.00	68	23	4-18
90	198	160	74	109.0	88.30	86.90	69.00	74	23	4-18
110	225	180	98	131.0	106.30	106.30	56.00	63	27	4-18

5. PPH/PVDF Butt-Welded Pipe Fittings

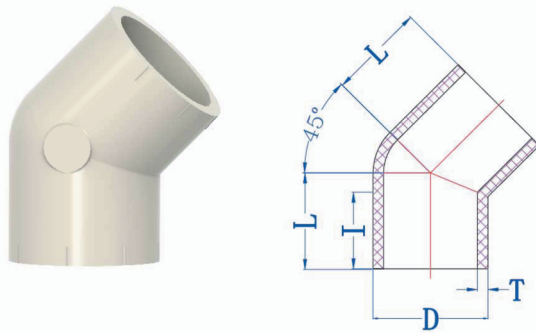
Implementation Standards: HG/T 4281-2011 (DVS2207-11)

Conform To: HG/T 4281-2011 (DVS2207-11)



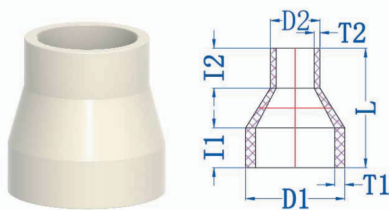
BIG MOON BEND (S×S)

Nominal	Socket Type		Structural Diameter		
SIZE	D	T	L	L1	R
20	20.10	2.30	26.5	23.0	26.5
25	25.10	2.80	33.0	23.0	33.0
32	32.10	3.30	40.0	22.0	40.0
40	40.10	3.90	51.5	21.0	51.5
50	50.10	4.90	62.0	21.0	62.0
63	63.10	6.30	75.0	21.0	75.0
75	75.10	6.80	98.5	20.0	98.5
90	90.10	8.20	100.0	20.0	90.0
110	110.10	10.00	141.0	25.0	130.0
140	140.10	13.00	155.0	15.0	140.0
160	160.10	15.00	175.0	15.0	160.0
225	225.10	20.50	245.0	20.0	225.0
250	250.10	22.70	256.0	49.0	232.0
280	280.10	25.40	286.0	44.0	262.0
315	315.10	28.60	321.0	51.0	297.0



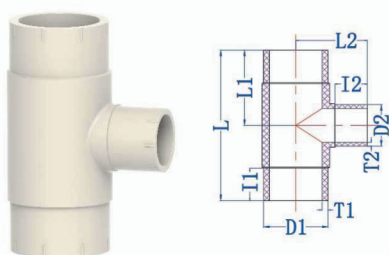
45° ELBOW (S×S)

Nominal	Socket Type			Structural Diameter
SIZE	D	T	I	L
20	20.10	2.30	27.5	32.0
25	25.10	2.80	28.5	34.0
32	32.10	3.00	29.0	36.0
40	40.10	3.70	31.0	39.0
50	50.10	4.60	31.5	42.0
63	63.10	5.80	36.0	49.0
75	75.10	6.80	38.5	55.0
90	90.10	8.20	34.0	57.0
110	110.10	10.00	43.0	70.0
140	140.10	13.00	55.0	88.0
160	160.10	15.00	60.0	100.0
225	225.10	20.50	85.0	140.0
250	250.10	22.70	133.0	225.0
280	280.10	25.40	143.0	235.0
315	315.10	28.60	154.0	255.0



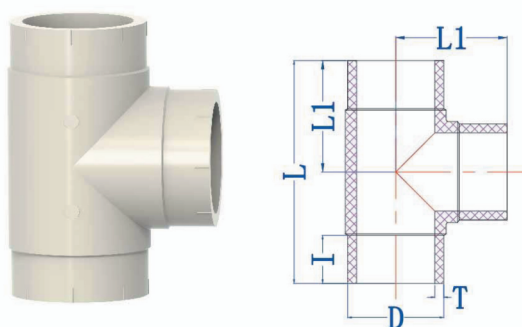
REDUCER COUPLING
(S×S)

Nominal	Socket Type						Structural Diameter
SIZE	D1	TI	I1	D2	T2	I2	L
25*20	25.10	2.80	20.0	20.10	2.30	20.0	49.0
32*25	32.10	3.00	20.0	25.10	2.80	20.0	50.0
40*25	40.10	3.70	20.0	25.10	2.80	20.0	54.0
40*32	40.10	3.70	20.0	32.10	3.00	20.0	54.0
50*25	50.10	4.60	20.0	25.10	2.80	20.0	60.0
50*32	50.10	4.60	20.0	32.10	3.00	20.0	60.0
50*40	50.10	4.60	20.0	40.10	3.70	20.0	60.0
63*32	63.10	5.80	20.0	32.10	3.00	20.0	64.0
63*50	63.10	5.80	20.0	50.10	4.60	20.0	64.0



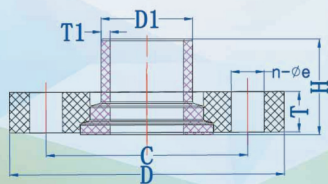
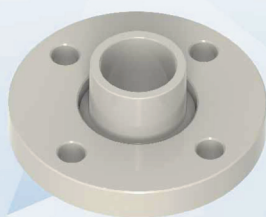
REDUCER TEE (S×S×S)

Nominal	Socket Type						Structural Diameter		
SIZE	D1	T2	I1	D2	T2	I2	L1	L2	L
32*25	32.10	3.00	25.0	25.10	2.80	26.0	46.0	45.6	92
50*25	50.10	4.60	25.0	25.10	2.80	26.0	58.0	55.0	116
50*32	50.10	4.60	25.0	32.10	3.00	25.0	58.0	55.5	116
63*32	63.10	5.80	25.0	32.10	3.00	25.0	66.0	62.0	132
63*50	63.10	5.80	25.0	50.10	4.60	25.0	66.0	64.5	132



TEE (S×S)

Nominal	Socket Type			Structural Diameter	
SIZE	D	T	I	L1	L
20	20.10	2.30	25.0	38.0	76.0
25	25.10	2.80	26.0	42.0	84.0
32	32.10	3.00	25.0	46.0	92.0
40	40.10	3.70	24.0	56.0	112.0
50	50.10	4.60	25.0	58.0	116.0
63	63.10	5.80	25.0	66.0	132.0
75	75.10	6.80	25.0	75.0	150.0
90	90.10	8.20	20.0	90.0	180.0
110	110.10	10.00	20.0	110.0	220.0
140	140.10	13.00	28.0	140.0	280.0
160	160.10	14.50	28.0	160.0	320.0
225	225.10	19.80	35.0	220.0	440.0
250	250.10	22.70	86.0	275.0	550.0
280	280.10	25.40	105.0	310.0	620.0
315	315.10	28.60	111.0	350.0	700.0



SIZE	D	c	D1	TI	H	T	n-φe
20	95	65	20.10	2.30	40	16	4-14
25	105	75	25.10	2.80	40	17	4-14
32	115	85	32.10	3.00	40	18	4-18
40	140	100	40.10	3.70	50	20	4-18
50	150	110	50.10	4.60	52	22	4-18
63	165	125	63.10	5.80	60	24	4-18
75							
90							
110							
140	250	210	140.10	12.60	94	25	4-18
160	284	240	160.10	14.80	94	25	4-22
225	340	295	225.10	20.50	103	25	4-22
280	406	350	280.10	25.00	125	25	4-22
315	446	400	315.10	28.00	125	27	4-22

BUTT WELDING VAN-STONE FLANGE

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Pipeline Series

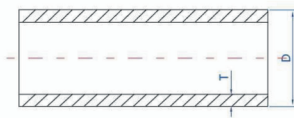
1.UPVC/CPVC National Standard Industrial Pipelines

Implementation Standards: GB/T 4219.1-2008

GB/T18998.2-2022

Conform To:GB/T 4219.1-2008

GB/T18998.2-2022



Nominal SIZE	D(mm)	Tolerance	S10 1.0MPa		S8 1.25MPa		S6.3 1.6MPa		S5 2.0MPa	
			T (mm)	Tolera	T (mm)	Tolera	T	Tolera	T	T (mm)
20	20	+0.2	-	-	-	-			2.0	2.0
25	25	+0.2	-	-	-	-	2.0	+0.5	2.3	2.3
32	32	+0.2	-	-	2.0	+0.4	2.4	+0.5	2.9	2.9
40	40	+0.2	2.0	+0.4	2.4	+0.5	3.0	+0.5	3.7	3.7
50	50	+0.2	2.4	+0.5	3.0	+0.5	3.7	+0.6	4.6	4.6
63	63	+0.3	3.0	+0.5	3.8	+0.6	4.7	+0.7	5.8	5.8
75	75	+0.3	3.6	+0.6	4.5	+0.7	5.6	+0.8	6.8	6.8
90	90	+0.3	4.3	+0.7	5.4	+0.8	6.7	+0.9	8.2	8.2
110	110	+0.4	5.3	+0.8	6.6	+0.9	8.1	+1.1	10.0	10.0
125	125	+0.4	6.0	+0.8	7.4	+1.0	9.2	+1.2	11.4	11.4
140	140	+0.5	6.7	+0.9	8.3	+1.1	10.3	+1.3	12.7	12.7
160	160	+0.5	7.7	+1.0	9.5	+1.2	11.8	+1.4	14.6	14.6
200	200	+0.6	9.6	+1.2	11.9	+1.4	14.7	+1.7	18.2	18.2
225	225	+0.7	10.8	+1.3	13.4	+1.6	16.6	+1.9	-	-
250	250	+0.8	11.9	+1.4	14.8	+1.7	18.4	+2.1	-	-
280	280	+0.9	13.4	+1.6	16.6	+1.9	20.6	+2.3	-	-
315	315	+1.0	15.0	+1.7	18.7	+2.1	23.2	+2.6	-	-
355	355	+1.1	16.9	+1.9	21.1	+2.4	26.1	+2.9	-	-
400	400	+1.2	19.1	+2.2	23.7	+2.6	29.4	+3.2	-	-

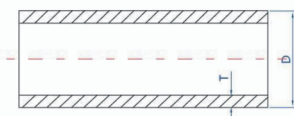
2.UPVC/CPVC American Standard Industrial Pipelines

Implementation Standards: ASTM D1785

ASTM F441

Conform To: ASTM D1785

ASTM F441



Nominal SIZE	D(mm)	Tolerance	SCH80		SCH40	
			T (mm)	Tolerance	T (mm)	Tolerance
1/2"	21.34	±0.10	3.73	+0.51	2.77	+0.51
3/4"	26.67	±0.10	3.91	+0.51	2.87	+0.51
1"	33.40	±0.13	4.55	+0.53	3.38	+0.51
1-1/4"	42.16	±0.13	4.85	+0.58	3.56	+0.51
1-1/2"	48.26	±0.15	5.08	+0.61	3.68	+0.51
2"	60.32	±0.15	5.54	+0.66	3.91	+0.51
2-1/2"	73.02	±0.18	7.01	+0.84	5.16	+0.61
3"	88.90	±0.20	7.62	+0.91	5.49	+0.66
4"	114.30	±0.23	8.56	+1.02	6.02	+0.71
5"	141.30	±0.25	9.52	+1.14	6.55	+0.79
6"	168.28	±0.28	10.97	+1.32	7.11	+0.86
8"	219.08	±0.38	12.70	+1.52	8.18	+0.99
10"	273.50	±0.38	15.06	+1.80	9.27	+1.12
12"	323.85	±0.38	17.45	+2.08	10.31	+1.24

3.UPVC/CPVC Japanese Standard Industrial Pipelines

Implementation Standards: JIS K6742 JIS K6776
Conform To: JIS K6742 JIS K6776



Nominal SIZE	D (mm)	Tolerance	T (mm)	Tolerance	Nominal Pressure (MPa)
16A	22	±0.2	2.7	+0.6	1.8
20A	26	±0.2	2.7	+0.6	1.8
25A	32	±0.2	3.2	+0.8	1.8
30A	38	±0.2	3.2	+0.8	1.8
40A	48	±0.2	3.7	+0.8	1.8
50A	60	±0.2	4.1	+0.8	1.5
65A	76	±0.3	4.1	+0.8	1.5
75A	89	±0.3	5.5	+0.8	1.5
100A	114	±0.4	6.6	+1.0	1.5
150A	165	±0.5	9.0	+1.4	1.2
200A	216	±0.7	10.3	+1.4	1.2
250A	267	±0.9	12.7	+1.8	1.2
300A	318	±1.0	15.1	+2.2	1.2

4.PPH/PPR Pipelines

Implementation Standards: GB/T 18742.2-2017 DIN 8077:2007-05
Conform To: GB/T 18742.2-2017 DIN 8077:2007-05



Nominal SIZE	D (mm)	Tolerance	Socket Type							
			S5 (1.0MPa)		S4 (1.25MPa)		S3.2 (1.6MPa)		S2.5 (2.0MPa)	
			T (mm)	Tolerance	T (mm)	Tolerance	T (mm)	Tolerance	T (mm)	Tolerance
20	20.0	+0.30	2.00	+0.30	2.30	+0.40	2.80	+0.40	3.40	+0.50
25	25.0	+0.30	2.30	+0.40	2.80	+0.40	3.50	+0.50	4.20	+0.60
32	32.0	+0.30	2.90	+0.40	3.60	+0.50	4.40	+0.60	5.40	+0.70
40	40.0	+0.40	3.70	+0.50	4.50	+0.60	5.50	+0.70	6.70	+0.80
50	50.0	+0.50	4.60	+0.60	5.60	+0.70	6.90	+0.80	8.30	+1.00
63	63.0	+0.60	5.80	+0.70	7.10	+0.90	8.60	+1.00	10.50	+1.20
75	75.0	+0.70	6.80	+0.80	8.40	+1.00	10.30.3	+1.20	12.50	+1.40
90	90.0	+0.90	8.20	+1.00	10.10	+1.20	12.30	+1.40	15.50	+1.60
110	110.0	+1.00	10.00	+1.10	12.30	+1.40	15.10	+1.70	18.30	+2.00
140	140.0	+1.30	12.70	+1.50	15.70	+1.80	19.20	+2.20	23.30	+2.60
160	160.0	+1.50	14.60	+1.70	17.90	+2.00	21.90	+2.40	26.60	+2.90
200	200.0	+1.80	18.20	+2.10	22.40	+2.50	27.40	+3.00	33.20	+3.60
225	225.0	+2.10	20.50	+2.30	25.20	+2.80	30.80	+3.30	37.40	+3.60
250	250.0	+2.30	22.70	+2.50	27.90	+3.00	34.20	+3.60	-	-
280	280.0	+2.50	25.40	+2.80	31.30	+3.30	38.30	+3.60	-	-
315	315.0	+2.50	28.60	+3.10	35.20	+3.60	-	-	-	-

5. Polyethylene (PE) Pipes For Water Supply

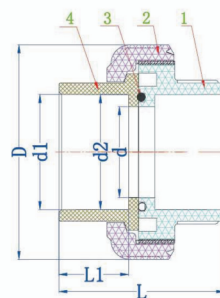
Implementation Standards: GB/T13663.2-2018

Conform To: GB/T13663.2-2018



Nominal Outside Diameter (mm)	Nominal Pressure SDR26~ 0.6MPa		Nominal Pressure SDR21~ 0.8MPa		Nominal Pressure SDR17~ 1.0MPa		Nominal Pressure SDR13.6~ 1.25MPa		Nominal Pressure SDR11~ 1.6MPa	
	Wall Thickness (mm)	Weight (kg/m)	Wall Thickness (mm)	Weight (kg/m)	Wall Thickness (mm)	Weight (kg/m)	Wall Thickness (mm)	Weight (kg/m)	Wall Thickness (mm)	Weight (kg/m)
20							2.0	0.115	2.3	0.132
25							2.0	0.132	2.3	0.174
32							2.4	0.236	3.0	0.283
40					2.3	0.289	3.0	0.362	3.7	0.437
50					2.9	0.447	3.7	0.557	4.6	0.676
63			3.0	0.588	3.8	0.697	4.7	0.895	5.8	1.075
75			3.6	0.839	4.5	1.031	5.6	1.264	6.8	1.507
90			4.3	1.203	5.4	1.493	6.7	1.819	8.2	3.178
110	4.2	1.454	5.3	1.802	6.6	2.214	8.1	2.685	10.0	3.234
125	4.8	1.888	6.0	2.318	7.4	2.837	9.2	3.455	11.4	4.203
140	5.4	2.378	6.7	2.917	8.3	3.555	10.3	4.337	12.7	5.245
160	6.2	3.113	7.7	3.816	9.5	4.652	11.8	5.671	14.6	6.868
200	7.7	4.821	9.6	5.948	11.9	7.261	14.7	8.846	18.2	10.912
225	8.6	6.048	10.8	7.533	13.4	9.222	16.6	11.437	20.5	13.813
250	9.6	7.517	11.9	9.201	14.8	11.314	18.4	14.07	22.7	17.021
280	10.7	9.396	13.4	11.629	16.6	14.48	20.6	17.669	25.4	21.322
315	12.1	11.941	15.0	14.627	18.7	18.399	23.2	22.376	28.6	27.033
355	13.6	15.109	16.9	18.912	21.1	23.328	26.1	28.382	32.2	34.293
400	15.3	19.118	19.1	24.118	23.7	29.521	29.4	35.995	36.3	43.55
450	17.2	24.69	21.5	30.495	26.7	37.416	33.1	45.63	40.9	55.189
500	19.1	30.48	23.9	37.684	29.7	46.242	36.8	56.337	45.4	68.077
560	21.4	38.201	26.7	47.193	33.2	57.903	41.2	70.661	50.8	85.34
630	24.1	48.461	30.0	59.615	37.4	73.35	46.5	89.336	57.2	108.121

1.UPVC、CPVC、PPH Union Pro



2.UPVC、CPVC、PPH、PVDF Union

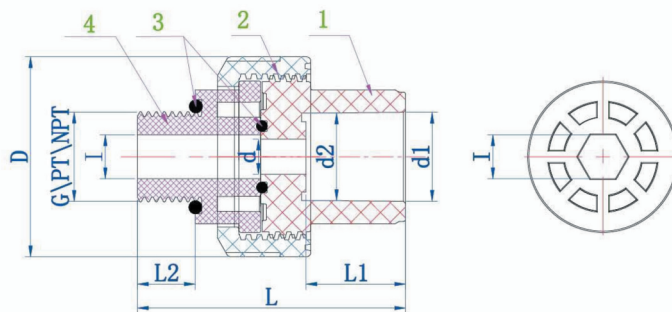


No.	Name	Material	Quantity	Unit
1	Union Body	UPVC / CPVC / PPH/PVDF	1	PCS
2	Nut	UPVC / CPVC / PPH/PVDF	1	PCS
3	O-Ring	EPDM/VITON	1	PCS
4	Socket	UPVC / CPVC / PPH/PVDF	1	PCS

UNIT: MM

SIZE	d	d1						d2						D	L	L1
		UPVC/CPVC				PPH	PVDF	UPVC/CPVC				PPH	PVDF			
		ANSI	DIN	JIS	CNS	DIN	DIN	ANSI	DIN	JIS	CNS	DIN	DIN			
1/2" (15)	15	21.40	20.25	22.30	22.30	19.30	19.20	21.25	20.05	21.85	21.85	19.00	19.00	54.00	54.00	23.00
3/4" (20)	20	26.75	25.25	26.30	26.30	24.10	24.20	26.58	25.05	25.85	25.85	23.80	23.90	63.00	60.50	26.00
1" (25)	25	33.52	32.25	32.33	34.50	31.00	31.10	33.28	32.05	31.85	33.90	30.70	30.90	73.50	67.50	29.00
1-1/4" (32)	32	42.28	40.25	38.43	42.50	39.00	39.00	42.05	40.05	37.85	41.90	38.60	38.80	84.50	77.00	33.00
1-1/2" (40)	40	48.40	50.25	48.46	48.46	49.00	48.90	48.12	50.05	47.75	47.75	48.60	48.70	98.00	83.50	35.50
2" (50)	50	60.45	63.25	60.56	60.56	61.90	61.90	60.18	63.05	59.75	59.75	61.40	61.60	119.00	90.50	38.50
2-1/2" (65)	63	73.30	75.25	76.60	76.60	73.60		72.85	75.05	75.87	75.87	72.30		150.00	143.00	64.50
3" (80)	75	89.25	90.35	89.60	89.60	88.30		88.70	90.05	88.83	88.83	86.90		169.00	158.00	70.00
4" (100)	90	114.60	110.35	114.70	114.70	108.00		114.10	110.05	113.98	113.98	106.40		190.00	200.00	84.00

UPVC, CPVC, PPH Pressure Gauge Union

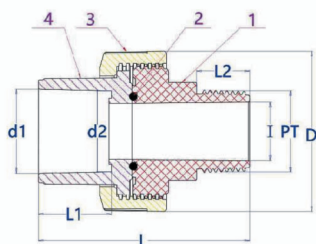


No.	Name	Material	Quantity	Unit
1	Union Body	UPVC/CPVC/PPH	1	PCS
2	Nut	UPVC/CPVC/PPH	1	PCS
3	O-Ring	EPDM/VITON	2	PCS
4	Male Socket	UPVC/CPVC/PPH	1	PCS

UNIT: MM

SIZE	d	d1					d2					D	L	L1	L2	I	G
		UPVC/CPVC				PPH	UPVC/CPVC				PPH						PT
		ANSI	DIN	JIS	CNS	DIN	ANSI	DIN	JIS	CNS	DIN						NPT
1/2" (15)	8	21.40	20.25	22.30	22.30	19.30	21.25	20.05	21.85	21.85	19.00	45.60	61.50	22.30	15.00	10	1/2"

UPVC, CPVC, PPH Male Thread Union

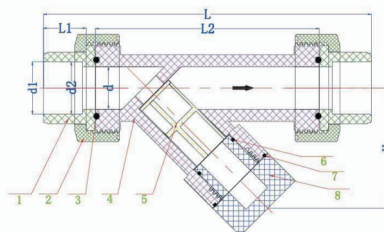


No.	Name	Material	Quantity	Unit
1	Union Body	UPVC/CPVC/PPH	1	PCS
2	Nut	UPVC/CPVC/PPH	1	PCS
3	O-Ring	EPDM/VITON	1	PCS
4	Socket	UPVC/CPVC/PPH	1	PCS

UNIT: MM

SIZE	d	d1					d2					D	L	L1	L2	PT
		UPVC/CPVC				PPH	UPVC/CPVC				PPH					
		ANSI	DIN	JIS	CNS	DIN	ANSI	DIN	JIS	CNS	DIN					
1/2" (15)	13	21.50	20.30	22.30	22.30	19.30	21.25	20.05	21.60	21.60	19.00	46.0	69.0	23.0	17.0	1/2"
3/4" (20)	18	26.80	25.30	26.40	26.40	24.10	26.60	25.05	25.50	25.50	23.80	55.0	80.0	27.0	19.5	3/4"
1" (25)	22	33.60	32.35	32.60	34.60	31.00	33.30	32.05	31.50	33.70	30.70	66.0	88.0	30.0	22.0	1"

UPVC Y-Type Filter



No.	Name	Material	Quantity	Unit
01	Socket	UPVC	2	PCS
02	Nut	UPVC	2	PCS
3/6/7	O-Ring	EPDM	4	PCS
04	Body	PVC	1	PCS
05	Filter Screen	PP	1	PCS
08	Cock	UPVC	1	PCS

JOINT END: SOCKET (ANSI /DIN / JIS/ CNS)

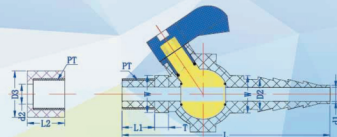
THREADED (PT/NPT/BSPF)

WORKING PRESSURE: 150PSI

UNIT: MM

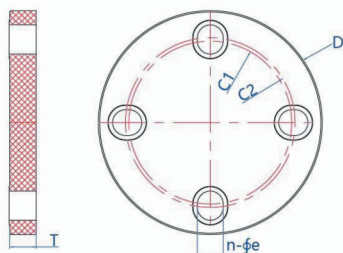
SIZE	d	d1					d2					L	L1	L2	H
		UPVC/CPVC				PPH	UPVC/CPVC				PPH				
		ANSI	DIN	JIS	CNS	DIN	ANSI	DIN	JIS	CNS	DIN				
1/2" (15)	15	21.40	20.25	22.30	22.30	19.30	21.25	20.05	21.85	21.85	19.00	174.00	22.30	110.00	55.00
3/4" (20)	20	26.75	25.25	26.30	26.30	24.10	26.58	25.05	25.85	25.85	23.80	195.00	26.00	125.00	66.00
1" (25)	25	33.52	32.25	32.33	34.50	31.00	33.28	32.05	31.85	33.90	30.70	202.00	29.00	138.00	75.00
1-1/4" (32)	32	42.28	40.25	38.43	42.50	39.00	42.05	40.05	37.85	41.90	38.60	233.00	32.50	149.00	82.00
1-1/2" (40)	40	48.40	50.25	48.46	48.46	49.00	48.12	50.05	47.75	47.75	48.60	276.00	35.50	189.00	105.00
2" (50)	50	60.45	63.25	60.56	60.56	61.90	60.18	63.05	59.75	59.75	61.40	311.00	38.50	222.00	135.00
2-1/2" (65)	63	73.30	75.25	76.60	76.60	73.60	72.85	75.05	75.87	75.87	72.30	410.00	64.50	268.00	168.00
3" (80)	75	89.25	90.35	89.60	89.60	88.30	88.70	90.05	88.83	88.83	86.90	485.00	70.00	330.00	220.00
4" (100)	90	114.60	110.35	114.70	114.70	108.00	114.10	110.05	113.98	113.98	106.40	615.00	84.00	420.00	300.00

UPVC Sampling Valve



SIZE	d1	D1	D2	L	L1	W	T	L2	d2	D3			PT
										ANSI	DIN	JIS	
1/4"	6	8	12	90	14	16	6	16	8	21.00	20.00	22.00	19

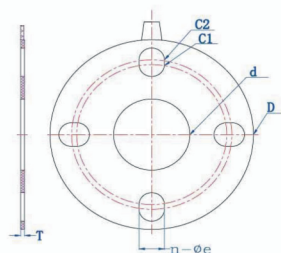
UPVC、CPVC、PPH Blind Flange



UNIT: MM

SIZE	D	C1	C2	T	n-φe
1/2" (15)	95	60	70	14	4-15
3/4" (20)	105	70	75	15	4-15
1" (25)	125	80	90	16	4-19
1-1/4" (32)	140	89	100	16	4-19
1-1/2" (40)	150	99	110	18	4-19
2" (50)	165	120	125	20	4-19
2-1/2" (65)	185	140	145	22	4-19
3" (80)	200	150	160	22	8-19
4" (100)	229	175	191	22	8-19
5" (125)	254	210	216	24	8-22
6" (150)	285	240	242	25	8-22
8" (200)	343	295	299	28	8-22
10" (250)	406	355	362	31	12-25
12" (300)	483	410	432	32	12-25

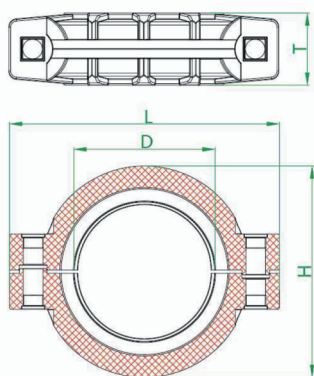
EPDM、VITON、NBR Flange Gasket



UNIT: MM

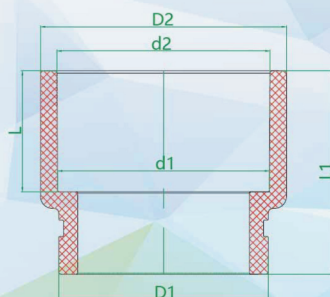
SIZE	D	d	C1	C2	T	n-φe
1/2"	95	15	60	70	3	4-15
3/4"	105	20	70	75	3	4-15
1"	115	25	80	90	3	4-19
1-1/4"	140	32	89	100	3	4-19
1-1/2"	150	43	99	110	3	4-19
2"	165	55	120	125	3	4-19
2-1/2"	185	65	140	145	3	4-19
3"	200	80	150	160	3	8-19
4"	220	100	175	191	3	8-19
5"	250	125	210	216	3	8-23
6"	285	150	240	242	3	8-23
8"	343	200	290	299	3	12-23
10"	406	250	355	362	3	12-25
12"	483	300	410	432	3	12-25

UPVC, CPVC, PA6 Compression Fitting (Compression Sleeve) Joint



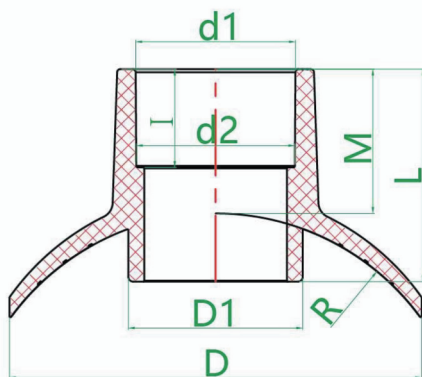
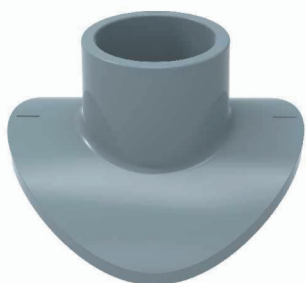
SIZE	D	L	H	T
DN32	42	105	76	45
DN40	48	110	83	45
DN50	60	130	92	45
DN65A	73	137	107	45
DN65B	76	137	107	45
DN80	89	172	134	46
DN100	114	205	168	52

UPVC, CPVC Compression Fitting (Compression Sleeve) Joint



SIZE	D	d1	d2	D2	L	L1
DN25-32	32	32.0	32.3	40	23	56
DN32-32	42	32.0	32.3	40	22	69
DN32-40	42	40.0	40.3	50	26	59
DN40-40	48	40.0	40.3	50	28	59
DN40-50	48	50.0	50.4	60	31	66
DN50-50	60	50.0	50.4	63	31	64
DN50-63	60	63.0	63.4	74	38	76
DN65-A	73	75.0	75.4	87	43	79
DN65-B	76	75.0	75.4	87	43	79
DN80	89	90.0	90.5	104	51	85
DN100	114	110.0	110.5	125	61	96

UPVC、CPVC Saddle (Curved Surface) Joint



SIZE	d1	D2	I	L	M	R	D	D1
dn75/25	25	25.3	19	40	28	37.5	72	32
dn75/32	32	32.3	22	44	32	37.5	72	35
dn75/40	40	40.3	26	50	36	37.5	72	42
dn90/25	25	25.3	19	40	28	45	85	32
dn90/32	32	32.3	22	44	32	45	85	35
dn90/40	40	40.3	26	50	36	45	85	45
dn90/50	50	50.3	31	57	41	45	85	50
dn110/25	25	25.3	19	43	30	55	100	32
dn110/32	32	32.3	22	47	33.5	55	100	35
dn110/40	40	40.3	26	53	37.5	55	100	45
dn110/50	50	50.3	31	60	42	55	100	55
dn110/63	63	63.3	38	70	49	55	100	65
dn140/25	25	25.3	19	45	28.5	70	125	32
dn140/32	32	32.3	22	50	33	70	125	35
dn140/40	40	40.3	26	56	37.5	70	125	45
dn140/50	50	50.3	31	65	44.5	70	125	55
dn140/63	63	63.4	38	74	50	70	125	70
dn160/25	25	25.3	19	48	29.5	70	130	32
dn160/32	32	32.3	22	52	33.5	70	130	35
dn160/40	40	40.3	26	60	40	70	130	45
dn160/50	50	50.3	31	67	45.5	70	130	55
dn160/63	63	63.4	38	75	50	70	130	70
dn225/25	25	25.3	19	50	29	112.5	140	32
dn225/32	32	32.3	22	55	34	112.5	140	35
dn225/40	40	40.3	26	63	41	112.5	140	45
dn225/50	50	50.3	31	70	47	112.5	140	55
dn225/63	63	63.4	38	78	53	112.5	140	70
dn280/25	25	25.3	19	60	29	140	150	32
dn280/32	32	32.3	22	65	34	140	150	35
dn280/40	40	40.3	26	73	41.5	140	150	45
dn280/50	50	50.3	31	78	46	140	150	55
dn280/63	63	63.3	38	88	54	140	150	70
dn315/25	25	25.3	19	60	29.5	157.5	160	32
dn315/32	32	32.3	22	65	34	157.5	160	35
dn315/40	40	40.3	26	73	41.5	157.5	160	45
dn315/50	50	50.3	31	78	46	157.5	160	55
dn315/63	63	63.3	38	88	54	157.5	160	70

UPVC/CPVC Piping System

Material Characteristic

Polyvinyl chloride is polymerized of monomer vinyl chloride (VCM). It is used for construction, sewerage pipes and other pipe applications because of its biological and chemical resistance and workability. It's more effective than traditional materials such as copper, iron or wood in pipe and profile applications.

CPVC is PVC (polyvinyl chloride) that has been chlorinated. Depending on the method, a varying amount of chlorine is introduced into the polymer allowing for a measured way to fine tune the final properties. The chlorine content may vary from manufacturer to manufacturer; the base can be as low as PVC 56.7% to as high as 74% by mass, although most commercial resins have chlorine content from 63% to 69%. CPVC can withstand corrosive water at temperatures greater than PVC, typically 40°C to 50°C (104°F to 122°F) or higher, contributing to its popularity as a material for water piping systems in residential as well as commercial construction.

Introduction To UPVC/CPVC Piping System

UPVC/CPVC pipes are in widespread use in a number of industries, ranging from residential plumbing to complex water treatment systems. Because of the material properties of UPVC/CPVC pipes, they are highly valuable as a thermo-resistant structure, fire retardant fabric, and as a high quality water conduit in many construction applications. UPVC/CPVC pipes are superior to most other modern materials due to environmental friendliness, chemical resistance, inherent toughness, heat resistance, and being electrically non-conductive/non-corrosive

Max working temperature of UPVC pipes is 60°C, and they are usually used below 45°C. They are applied for water supply system, agriculture irrigation system, and pipes for air conditioning.

Max working temperature of CPVC pipes is 110°C, and they are usually used below 95°C. They are applied for petro, electronics, chemical engineering, food, and metal plating industries.

Physical Properties

Physical Properties For UPVC

Item	Unit	Standard Value	Standard
Density	kg/m ³	1350~1460	ISO 1183
Vicat	°C	(Pipes)≥80,(Fittings)≥74	ISO 2507
Tensile Strength	MPa	≥40	ISO 6259
Impect Strength	KJ/m ²	11.0	ISO 179
Vertical Retraction Ratio	%	≤5	ISO 2505
Drop-Weight Test (0°C)	TIR	≤10%	ISO 3127

Physical Properties For CPVC

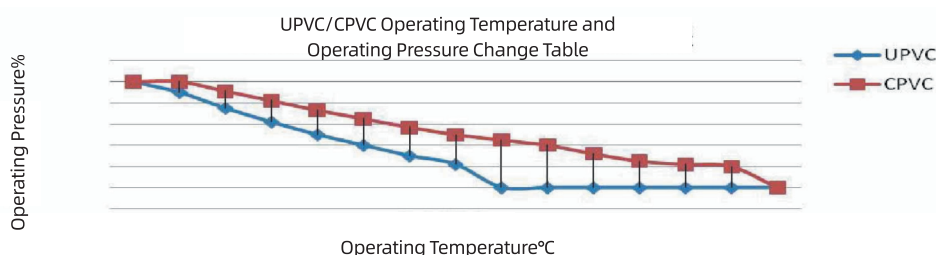
Item	Unit	Standard Value	Standard
Density	kg/m ³	1450~1650	ISO 1183
Vicat	°C	(Pipes)≥110,(Fittings)≥103	ISO 2507
Tensile Strength	MPa	≥40	ISO 6259
Impect Strength	KJ/m ²	8.0	ISO 179
Vertical Retraction Ratio	%	≤5	ISO 2505
Drop-Weight Test (0°C)	TIR	≤10%	ISO 3127

Temp & Pressure Relation Between UPVC And CPVC Pipelines

The operating pressure in the UPVC and CPVC pipelines at higher temperatures is listed in the following table, with the pressure at the at normal operating temperature 73°F (23°C) scaled to be 100%

°F	73	80	90	100	110	120	130	140	150	160	170	180	190	200	210
°C	23	27	32	38	43	49	54	60	66	71	77	82	88	93	99
UPVC	100%	90%	75%	62%	50%	40%	30%	22%	0%	0%	0%	0%	0%	0%	0%
CPVC	100%	100%	91%	82%	73%	65%	57%	50%	45%	40%	32%	25%	22%	20%	0%

Note: UPVC pipes with screws should not be operated over 110 F(43°C); CPVC ones should not be operated over 150(66°C)



PPR/PPH Piping System

Material Characteristics

Polypropylene (PP), also known as polypropene, is a thermoplastic polymer used in a wide variety of applications including packaging and labeling, textiles (e.g., ropes, thermal underwear and carpets), stationery, plastic parts and reusable containers of various types, laboratory equipment, loudspeakers, automotive components, and polymer banknotes. There are three general types of polypropylene: homopolymer, random copolymer, and block copolymer. The comonomer is typically used with ethylene. Polypropylene Random Copolymer (PP-R) is formulated by adding randomly polymerized ethylene monomer to polypropylene homopolymer. It decreases the polymer crystallinity and makes the polymer more transparent.

Polypropylene Homopolymer (PP-H) is another type of PP, It has better temperature & creep resistance than PPR, and with low temperature impact strength.

Introduction To PPR/PPH Piping System

Presently PPH/PPR pipes & fittings are most reliable in plumbing and water supply plants, due to their chemical features and fusion welding, which ensures the plumbing to have a perfect seal tight system. Approved by the Health Organization with characteristics such as Eco-friendly and high temperature resistance, PPH/PPR pipes & fittings have been taken as one of the best solution for piping systems.

Max working temperature of PPR pipes is 95°C, and they are usually used below 70°C. They are applied for transferring corrosive material below 70°C, and also for pressured liquid transfer, for example, household water system.

Max temperature of PPH pipes is 110°C, and they are usually used below 90°C. They are applied for cooling water transfer, corrosive material transfer, fume ducts, electrolyze systems, and other piping systems with acid liquids.

Physical Properties

Physical Properties Of PPR Pipes

Item	Unit	Standard Value	Standard
Density	kg/m ³	900~920	ISO 1183
Vicat	°C	≥75	ISO 306
Tensile Strength	MPa	≥25	ISO 6259
Impact Strength(23°C)	KJ/m ²	40	ISO 179
Vertical Retraction Ratio (135°C)	%	≤2	ISO 2505

Physical Properties Of PPH Pipes

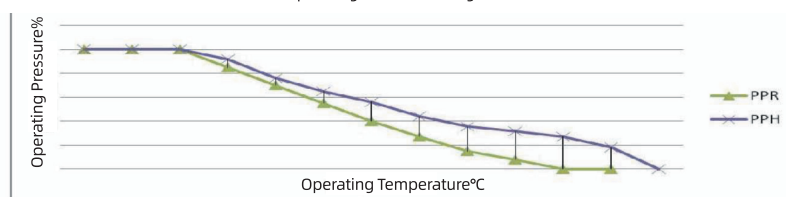
Item	Unit	Standard Value	Standard
Density	kg/m ³	905~915	ISO 1183
Vicat	°C	≥95	ISO 306
Tensile Strength	MPa	≥27	ISO 6259
Impect Strength(23°C)	KJ/m ²	50	ISO 179
Vertical Retraction Ratio (150°C)	%	≤2	ISO 2505

Temp & Pressure Relation Between PPR And PPH Pipelines

The operating pressure in the PPR and PPH pipelines at higher temperatures is listed in the following table, with the pressure at the at normal operating temperature 77°F (25°C) scaled to be 100%

°F	50	68	77	86	104	122	140	158	176	194	203	212	230
°C	10	20	25	30	40	50	60	70	80	90	95	100	110
PPR	100.0%	100.0%	100.0%	85.0%	70.0%	55.0%	40.0%	27.0%	15.0%	8.0%	0.0%	0.0%	
PPH	100.0%	100.0%	100.0%	92.0%	76.0%	65.0%	56.0%	44.0%	35.5%	31.5%	27.0%	18.0%	0.0%

PPR/PPH Operating Temperature and Operating Pressure Change Table



PVDF Piping System

Material Characteristics

Polyvinylidene fluoride, referred to as PVDF, it is a monomer formed by trifluoroethylene, hydrofluoric acid and zinc powder, and after polymerization to generate white crystalline solid. It is a homopolymer. PVDF has excellent heat and cold resistance, chemical resistance and excellent physical and mechanical properties.

Introduction To PVDF Piping System

Max working temperature of PVDF pipes is 200°C, and they can be used for a long time in the temperature range of -50°C ~ 150°C. Except hydrochloric acid and strong solvent, PVDF can withstand all salt, acid alkali, aromatic hydrocarbon, halogen and other media. And with its excellent corrosion resistance, long service life and high safety performance, PVDF products widely used in severe environment which high temperature, high pressure, low temperature, high vacuum and heavy corrosion. PVDF products is one of the best choice of the current industrial pipeline system.

Physical Properties

Physical Properties Of PVDF Pipes

Item	Unit	Standard Value	Standard
Density	kg/m ³	1760~1790	ISO 1183
Vicat	°C	≥140	ISO 306
Tensile Strength	MPa	≥40	ISO 6259
Impect Strength(23°C)	KJ/m ²	≥160	ISO 179
Vertical Retraction Ratio (150°C)	%	≤2	ISO 2505

Plastic Piping System Constructing Method & Hydrostatic Pressure Testing Notification

Constructing Method Of UPVC/CPVC Pipes

UPVC/CPVC piping systems are bonded by special cement. Hereunder are the steps:

Cutting

Burrs must be removed from the inside, as well as the outside, of the pipe ends by pliers, filer and sandpaper on both inner side and outside of the cutting edge so that pipes and fittings are bond tightly.

Deburring

Burrs must be removed from the inside, as well as the outside, of the pipe ends by pliers, filer and sandpaper on both inner side and outside of the cutting edge so that pipes and fittings are bond tightly.

Making

Making marks on all pipes according to the length & depth of fitting parts. it can be used to ensure the pipe completely bottomed into the fitting during assembly.

Solvent Coating

Bonding surface should be softened by detergent, and then coat cement on both sides of bonding parts evenly.

Standard Volume Of Cement

Nominal Outside Diameter (mm)	20	25	32	40	50	63	75	90	110	125	140	160
Cement Volume (g/piece)	0.40	0.58	0.88	1.31	1.94	2.97	4.10	5.73	8.43	10.75	13.37	17.28

Assembling

After coating cement, insert pipe into fitting socket while rotate the pipe a quarter turn. Pipe must bottom completely to the fitting stop. Hold the assembly part for 10-15 seconds to ensure initial bonding (2 persons work together to bond pipes larger than 6"). A bead of cement should be evident around the pipe and fitting juncture. If this bead is not continuous around the socket shoulder, it may indicate that insufficient cement was applied. If insufficient cement is applied, the joint must be cut out, discarded and begun again. Cement in excess of the bead can be wiped of with a rag.

Hydrostatic Pressure Testing Notification Of UPVC/CVPC Pipes

Cemented pipes must be tested 48 hours after installation. If pipes are installed underground, the test must be done after the trench is backfilled.

Support to tees, elbows, and fitting stops in the end must be stable. Thrust block made of concrete must be cured completely before test.

The end of the system should be blocked. Then, the system must be filled slowly with water, venting air from valves at piping run ends and at elevations during the filling process.

After the system is filled with water, make watertight test

Hand pump or electro pump is used to rise up the pressure. The process must be slowly, more than 10mins

After rising up to the test pressure, hold it for 1 hour to check if there is leakage. If the pressure lowers down, rise up the pressure again. Within 15mins, if the pressure lowers smaller than 0.05MPa, the result is qualified.

Constructing Method Of PPR/PPH /PVDF Pipes

PPR/PPH/PVDF piping systems are bonded by heating. Hereunder are the steps:

The Process Requirement Of Hot Melt Socket Welding Cutting & Deburring

Power Saw and plastic tubing cutters can be used for pipe cutting. Cut the pipes as squarely as possible to provide maximum bonding area and keep it clean without oil. Burrs must be removed from inside, as well as the outside, of the pipe ends by pliers, filer and sandpaper on both inner side and outside of the cutting edge so that pipes and fittings are bond tightly.

Making

Making marks on all pipes according to the length & depth of fitting parts. It can be used to ensure the pipe completely bottomed into the fitting during assembly.

Heating

Guide the pipes into heater straight to the marked assembly depth. In the meanwhile, push the fitting on to the heater and reach the marked depth.

Assembly

Heating time must be complied with the values in the under table. After heating time, remove pipe and fitting from the heater immediately and assemble them to the marked depth straight so that there is even bulge is the assembly place, Within the working time, tiny adjustment can be made but rotation must be prohibited. Keeping pipe and fitting from being wrenched, bent, and stretched.

Nominal Diameter (mm)	Heating Depth (mm)	Heating Time (s)	Assembly Time (s)	Cooling Time (min)
20	14.0	5	4	2
25	15.0	7	4	2
32	16.5	8	6	4
40	18.0	12	6	4
50	20.0	18	6	4
63	24.0	24	8	6
75	26.0	30	8	8
90	29.0	40	8	8
110	32.5	50	10	8

If the environment temperature is lower than 5°C, extend heating time by 50%.

The Process Requirement Of Hot Melt Butt Welding:

The Five Stages Of Hot Melt Butt Welding:

Pre-heating stage; Heating stage, Transfer stage; Welding stage; Cooling stage.

Preparation Before Welding. The Following Preparation Should Be Carried Out Before Welding:

- A) It should have a good good climate environment in welding area.
- B) The tools must be clean and the welding area must free of grease.
- C) Connect all parts of the welding machine correctly, and clean the oil-way; Measure the supply volt.age of electricity to confirm that the voltage meets the requirements of the hot melt butt welding machine
- D) Heating, cooling time and heating component temperature shall be set correctly according to the welding process. The hot plate of the first welding port shall be preheated for 10min at the welding temperature

Clamp Pipe/Fittings

Assemble the two welding components on the hot melt butt welding machine, use holder to flatten the pipe (fittings), adjust the concentricity, adjust the two pipes (fittings) at the same axis, check the alignment, the displacement value of welding side shall not exceed the allowed tolerance, 0.1* the thickness of the pipe or the outer wall thickness of the plate.

Cut the Welding Side

The maximum width of the gap between welding sides after cutting must meet the requirements in table 1 and table 2 which as below:

Table 1 the maximum width of the gap between welding sides of PP pipe, fittings and plate after cutting.

Unit:mm

Nominal O.D. of Pipe(dn)	Width of the Gap	Width of the Plate B
dn≤355	0.5	
400<dn≤630	1.0	≤1500
630<dn≤800	1.3	1500<B≤2000
800<dn≤1000	1.5	2000<B≤2300
dn>630	2.0	2300<B≤3000

Table 2 the maximum width of the gap between welding sides of PVDF pipe, fittings and plate after cutting.

Unit:mm

Nominal O.D. of Pipe(dn)	Width of the Gap	Width of the Plate B
dn≤355	0.5	
400<dn<630	1.0	≤1500
400<dn<630	1.3	1500<B≤2000
400<dn<630	1.5	2000<B≤2300
400<dn<630	2.0	2300<B≤3000

Adjust The Pipes(Fittings) At The Same Axis

Check the welding sides of pipe or fittings which have no uneven milling, big gap or other defects. If it meets the requirements, adjust the pipes (fittings) at the same axis.

Test And Check Drag Pressure

The frame of closing machine pressing evenly and slowly, when the frame starts to move, the recorded pressure value is drag pressure (pt), which is not fixed and must be measured every time when it is welding. The gap of welding side of pipes and fittings must less than 0.3mm; the displacement value of welding parts must be less than 10% of the thickness of welding parts.

Heating The Welding Sides Stably

When the temperature of the heating component meet set temperature requirement, then assemble the heating component on the hot melt butt welding machine, keep the pressure and complete specified flanging formation time or flanging size, the pipes or fittings can't interrupt touch with the heating component, meanwhile adjust the pressure to meet required butt welding heating pressure, and keep heating to meet the heating time's requirement. Lowering the pressure to drag pressure (pt) and start heating timing, the heating tools must fit with welding sides tightly without any gap.

Transfer And Butt Welding

After the heating, pull the pipe or fitting out from the heating component, and joint the welding sides of pipes or fittings quickly, and increase the pressure uniformly to the total hot melt butt welding pressure(p_1), high-pressure collision is strictly prohibited.

When aligning, put the welding sides on the hot iron until the whole side full touch the hot iron completely, side to side, and it can observing the flanging formation. When the flanging height around the entire circumference of the tube or the entire top of the plate up to the required value, then it's aligned.

Connector Cooling

After hot melt butt welding, the connector shall be fixed in the hot melt butt welding machine, and cooling the connector according to cooling period which specified in the regulations of pressure maintain.ing and cooling of hot melt butt welding machine.

Remove Pipes/Fittings

After the cooling, reduce pressure to zero, and then remove the welded pipes/fittings
Hot melt butt welding process reference table of PPH pipes and fittings

Nominal Wall Thickness (mm)	Aligning	Heating	Transfer	Welding	
	Heating Component Temperature 210°C±10°C				
	The height of the flange on the heating part after the alignment time ends (min) (Alignment p = 0.01N/mm²) / mm	Heating time ≈ 10 + 40s (Heating p ≤ 0.01N/mm²) / s	Transfer time (max) / s	Welding pressure formation time [p=(0.10 + 0.01)N/mm²] / min	The cooling time under welding pressure
6.0~7.0	0.5	135~175	5~6	6~7	6~12
7.0~12.0	1.0	175~245	6~7	7~11	12~20
12.0~19.0	1.0	245~330	7~9	11~17	20~30
19.0~26.0	1.5	330~400	9~11	17~22	30~40
26.0~37.0	2.0	400~485	11~14	22~32	40~55
37.0~50.0	2.5	485~560	14~17	32~43	55~70

Hot melt butt welding process reference table of PVDF pipes and fittings

Nominal Wall Thickness (mm)	Aligning	Heating	Transfer	Welding	
	Heating Component Temperature 210 °C±10 °C				
	The height of the flange on the heating part after the alignment time ends (min) (Alignment p = 0.01N/mm²) /mm	Heating time ≈ 10 + 40s(Heating p ≤ 0.01N/mm²) / s	Transfer time (max) / s	Welding pressure formation time [p=(0.10 + 0.01)N/mm²] /min	The cooling time under welding pressure
6.0~10.0	0.5~1.0	95~140	4	5~7	8.5~14
10.0~15.0	1.0~1.3	140~190	4	7~9	14~19
15.0~20.0	1.3~1.7	190~240	5	9~11	19~25
20.0~25.0	1.7~2.0	240~290	5	11~13	25~32

Hydrostatic Pressure Testing Notification Of PPR/PPH /PVDF Pipes

- Hydraulic test has to be performed sectional; tested length should be no longer than 500m.
- Before test, make sure pipes are fixed, joints are not covered, and the whole system is independent from water outlet tools.
- Pressure gage with tolerance 0.01Mpa needs to be installed in the lowest place of the system.
- Fill water from lowest part of the system to remove the air and make watertight test.
- Hand pump or electro pump is used to rise up the pressure. The process must be slowly, more than 10 mins.
- After rising up to the test pressure, hold it for 1 hour to check if there is leakage. If the pressure lowers smaller than 0.06MPA, the result is qualified.
- Hold the pressure 1.1 5 times of the working pressure for 2 hours. If the pressure lowers less than 0.03MPA, the result is qualified.
- There must be no leakage in the system during test.
- During 30 mins, if the pressure lowers down, it is allowed to raise up the pressure again 2 times.



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