

BUTTWELD FITTINGS



WHAT ARE BUTTWELD FITTINGS?

Buttweld fittings are accessories used in a piping connection that is designed to be welded on-site to allow the following changes:

- a) Change in flow direction (Elbows)
- b) Change in pipe diameter (Reducers)
- c) Branching (Tees & Cross)
- d) Ending (Cap)

BENEFITS OF USING BUTTWELD FITTINGS

Here at HH Stainless, we carry a wide range of Buttweld fittings ranging from various shapes (elbows, tees, reducers, caps, stub-ends) and sizes. We keep stocks in Stainless Steel (304 & 316), Duplex (F51 - 31803), Super Duplex (F53 – 32750 & F60 – F32760).

These are governed by the key specifications under MSS SP 43 that integrates ASME B16.9 for our products.

Butt welding fittings have the following benefits

- Welded Connections allows for a more stable connection
- Minimize pressure drops and the turbulence inside the pipeline
- Excellent service life that is readily available to purchase and deploy

AVAILABLE SIZE RANGE

BUTTWELD FITTINGS	TYPES	NOMINAL BORE SIZE RANGE	SCH/ THICKNESS	304/L	316/L	F51 31803/2205	F53 32750
AUSTENITIC STEELS - WELDED BUTTWELD FITTINGS	LONG RADIUS ELBOW 45 & 90 DEG	0.50" - 24.00" 0.50" - 24.00"	S10S S40S / STD	•	•		
	SHORT RADIUS ELBOW 90 DEG			•	•		
	EQUAL & REDUCING TEE			•	•		
	CONCENTRIC & ECCENTRIC REDUCER	*304/L & 316/L WX from 8" onwards		•	•		
	END CAP			•	•		
	LAP JOINT (STUB END)			•	•		
AUSTENITIC STEELS - SEAMLESS BUTTWELD FITTINGS	LONG RADIUS ELBOW 45 & 90 DEG	0.50" - 12.00" 0.50" - 12.00" 0.50" - 12.00" 0.50" - 8.00" 0.50" - 6.00"	S10S S40S / STD S80S / XS S160S XXS	•	•		
	SHORT RADIUS ELBOW 90 DEG			•	•		
	EQUAL & REDUCING TEE			•	•		
	CONCENTRIC & ECCENTRIC REDUCER			•	•		
	END CAP			•	•		
	LAP JOINT (STUB END)			•	•		
DUPLEX & SUPER DUPLEX BUTT WELD FITTINGS	LONG RADIUS ELBOW 45 & 90 DEG	0.50" - 8.00" 0.50" - 8.00" 0.50" - 8.00" 0.50" - 6.00" 0.50" - 4.00"	S10S S40S / STD S80S / XS S160S XXS			•	•
	EQUAL TEE					•	•
	CONCENTRIC REDUCER					•	•
						•	•
						•	•

EXPLORING COMMON TYPES OF BUTTWELD FITTINGS

Below, we dive into the common types of buttweld fittings one would encounter in their course of usage:



01

90° LONG & SHORT RADIUS ELBOW

The buttweld elbow is designed to change the direction of fluid in the piping system. The most common types of elbows are 45°, 90° and 180°.



02

45° LONG RADIUS ELBOW

The buttweld elbow is designed to change the direction of fluid in the piping system. The most common types of elbows are 45°, 90° and 180°.



03

EQUAL & REDUCING TEE

The equal tee or otherwise known as the straight tee features three equal sides for both the run and branch sides. It is a buttweld fitting that is used to branch a pipeline at 90°. There is also another variant known as the reducing tee that has a smaller bore size on the branch side to reduce flow.



04

CONCENTRIC & ECCENTRIC REDUCER

Reducers are used to connect a larger pipe to a smaller pipe. These are available in concentric (centered) and eccentric (off-centered) types.



05

END CAP

Caps are used to cover the endings of a pipe system either permanently or temporarily. Temporarily being for maintenance or for future expansion of connections.



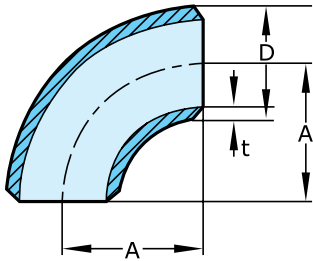
06

LAP JOINT (STUB END)

Stub ends are buttweld fittings that can be used in combination with a lap joint flange as an alternative to welding neck flanges to make flanged connections.

LONG RADIUS ELBOWS 90°

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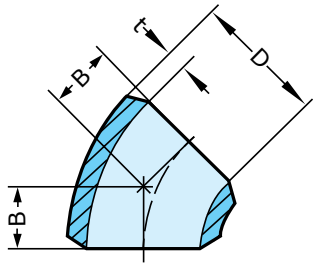
▲ WP-W = made from welded pipe or plate ● S31803 = made from seamless pipe
● WP-S = made from seamless pipe ● S32750 = made from seamless pipe
We keep only seamless duplex and super duplex fittings. We do not keep welded duplex and super duplex fittings.

Nominal pipe size	Schedule	Dimension in mm			Approximate Weight kg/pce	304L	316L	S31803	S32750
		D	t	A					
1/2"	10s	21.3	2.11	38.1	0.060	● / ▲	● / ▲	●	
	40s	21.3	2.77	38.1	0.080	● / ▲	● / ▲	●	
	80s	21.3	3.73	38.1	0.100	●	●	●	
	160	21.3	4.78	38.1	0.150		●	●	
3/4"	10s	26.7	2.11	38.1	0.070	● / ▲	● / ▲	●	
	40s	26.7	2.87	38.1	0.090	● / ▲	● / ▲	●	
	80s	26.7	3.91	38.1	0.110	●	●	●	
	160	26.7	5.56	38.1	0.230		●	●	
1"	10s	33.4	2.77	38.1	0.140	● / ▲	● / ▲	●	
	40s	33.4	3.38	38.1	0.160	● / ▲	● / ▲	●	
	80s	33.4	4.55	38.1	0.220	●	●	●	
	160	33.4	6.35	38.1	0.253		●	●	
	XXS	33.4	9.09	38.1	0.360		●		
1 1/4"	10s	42.2	2.77	47.6	0.230	● / ▲	● / ▲	●	
	40s	42.2	3.56	47.6	0.250	● / ▲	● / ▲	●	
	80s	42.2	4.85	47.6	0.400	●	●	●	
	160	42.2	6.35	47.6	0.419		●	●	
	XXS	42.2	9.70	47.6	0.640		●		
1 1/2"	10s	48.3	2.77	57.2	0.310	● / ▲	● / ▲	●	
	40s	48.3	3.68	57.2	0.400	● / ▲	● / ▲	●	
	80s	48.3	5.08	57.2	0.510	●	●	●	
	160	48.3	7.14	57.2	0.649		●	●	
	XXS	48.3	10.15	57.2	0.930		●		
2"	10s	60.3	2.77	76.2	0.510	● / ▲	● / ▲	●	●
	40s	60.3	3.91	76.2	0.710	● / ▲	● / ▲	●	●
	80s	60.3	5.54	76.2	0.910	●	●	●	●
	160	60.3	8.74	76.2	1.330		●	●	
	XXS	60.3	11.07	76.2	1.690		●	●	
2 1/2"	10s	73.0	3.05	95.3	0.850	● / ▲	● / ▲	●	
	40s	73.0	5.16	95.3	1.360	● / ▲	● / ▲	●	
	80s	73.0	7.01	95.3	1.810	●	●	●	
	160	73.0	9.52	95.3	2.330		●	●	
	XXS	73.0	14.02	95.3	3.430		●		

Nominal pipe size	Schedule	Dimension in mm			Approximate Weight kg/pce	304L	316L	S31803	S32750
		D	t	A					
3"	10s	88.9	3.05	114.3	1.220	● / ▲	● / ▲	●	●
	40s	88.9	5.49	114.3	2.180	● / ▲	● / ▲	●	●
	80s	88.9	7.62	114.3	2.980	●	●	●	●
	160	88.9	11.13	114.3	3.830		●	●	
	XXS	88.9	15.24	114.3	5.250		●	●	
3 1/2"	10s	101.6	3.05	133.4	1.700		▲		
	40s	101.6	5.74	133.4	1.830		▲		
4"	10s	114.3	3.05	152.4	2.150	● / ▲	● / ▲	●	●
	40s	114.3	6.02	152.4	4.170	● / ▲	● / ▲	●	●
	80s	114.3	8.56	152.4	6.180	●	●	●	●
	160	114.3	13.49	152.4	8.020		●	●	
	XXS	114.3	17.12	152.4	10.200		●	●	
5"	10s	141.3	3.40	190.5	3.630	● / ▲	● / ▲	●	
	40s	141.3	6.55	190.5	6.860	● / ▲	● / ▲	●	
	80s	141.3	9.53	190.5	9.580		●	●	
	160	141.3	9.53	190.5	9.580			●	
6"	10s	168.3	3.40	228.6	4.900	● / ▲	● / ▲	●	●
	40s	168.3	7.11	228.6	10.890	● / ▲	● / ▲	●	●
	80s	168.3	10.97	228.6	16.330	●	●	●	●
	160	168.3	18.26	228.6	24.200	●	●	●	
8"	10s	219.1	3.76	304.8	10.660	● / ▲	● / ▲	●	
	40s	219.1	8.18	304.8	21.550	● / ▲	● / ▲	●	●
	80s	219.1	12.70	304.8	33.110	●	●	●	●
	160	219.1	23.01	304.8	53.200		●		
10"	10s	273.1	4.19	381.0	19.500	● / ▲	● / ▲		
	40s	273.1	9.27	381.0	38.560	● / ▲	● / ▲		
	80s	273.1	12.70	381.0	47.7000	●	●		
12"	10s	323.9	4.57	457.2	27.220	● / ▲	● / ▲		
	40s	323.9	9.53	457.2	59.420	● / ▲	● / ▲		
	80s	323.9	12.70	457.2	68.700	●	●		
14"	10s	355.6	4.78	533.4	36.300	▲	▲		
	STD	355.6	9.53	533.4	70.300	▲	▲		
16"	10s	406.4	4.78	609.6	47.630	▲	▲		
	STD	406.4	9.53	609.6	91.630	▲	▲		
18"	10s	457.2	4.78	685.8	59.870	▲	▲		
	STD	457.2	9.53	685.8	122.000	▲	▲		
20"	10s	508.0	5.54	762.0	99.790	▲	▲		
	STD	508.0	9.53	762.0	140.000	▲	▲		
24"	10s	609.6	6.35	914.4	140.610	▲	▲		
	STD	609.6	9.53	914.4	202.000		▲		

LONG RADIUS ELBOWS 45°

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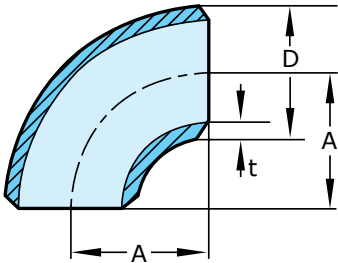
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● WP-S = made from seamless pipe ● S32750 = made from seamless pipe
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Nominal pipe size	Schedule	Dimension in mm			Approximate Weight kg/pce	304L	316L	S31803	S32750
		D	t	B					
1/2"	10s	21.3	2.11	15.9	0.030	● / ▲	● / ▲	●	
	40s	21.3	2.77	15.9	0.035	● / ▲	● / ▲	●	●
	80S	21.3	3.73	15.9	0.050	●	●	●	
	160	21.3	4.78	15.9	0.070		●		
3/4"	10s	26.7	2.11	19	0.03	● / ▲	● / ▲	●	
	40s	26.7	2.87	19	0.04	● / ▲	● / ▲	●	
	80S	26.7	3.91	19	0.07	●	●	●	
	160	26.7	5.56	19	0.12		●		
1"	10s	33.4	2.77	22.2	0.09	● / ▲	● / ▲	●	
	40s	33.4	3.38	22.2	0.110	● / ▲	● / ▲	●	
	80S	33.4	4.55	22.2	0.130	●	●	●	
	160	33.4	6.35	22.2	0.150		●		
1 1/4"	10s	42.4	2.77	25.4	0.11	● / ▲	● / ▲	●	
	40s	42.4	3.56	25.4	0.17	● / ▲	● / ▲		
	80S	42.4	4.85	25.4	0.18		●		
	160	42.4	6.35	25.4	0.23		●		
1 1/2"	10s	48.3	2.77	28.6	0.170	● / ▲	● / ▲	●	
	40s	48.3	3.68	28.6	0.230	● / ▲	● / ▲	●	
	80S	48.3	5.08	28.6	0.25	●	●	●	
	160	48.3	7.14	28.6	0.37		●		
2"	10s	60.3	2.77	34.9	0.250	● / ▲	● / ▲	●	
	40s	60.3	3.91	34.9	0.400	● / ▲	● / ▲	●	
	80s	60.3	5.54	34.9	0.510	●	●	●	
	160	60.3	8.74	34.9	0.740		●	●	
	XXS	60.3	11.07	34.9	0.850		●		
2 1/2"	10s	73.0	3.05	44.5	0.480	● / ▲	● / ▲	●	
	40s	73.0	5.16	44.5	0.770	● / ▲	● / ▲	●	
	80s	73.0	7.01	44.5	0.900	●	●	●	
	160	73.0	9.53	44.5	1.280		●		
	XXS	73.0	14.02	44.5	1.720		●		

Nominal pipe size	Schedule	Dimension in mm			Approximate Weight kg/pce	304L	316L	S31803	S32750
		D	t	B					
3"	10s	88.9	3.05	50.8	0.630	● / ▲	● / ▲	●	
	40s	88.9	5.49	50.8	1.080	● / ▲	● / ▲	●	●
	80s	88.9	7.62	50.8	1.370	●	●	●	●
	160	88.9	11.13	50.8	2.070		●		
	XXS	88.9	15.24	50.8	2.630		●	●	
4"	10s	114.3	3.05	63.5	1.080	● / ▲	● / ▲	●	
	40s	114.3	6.02	63.5	2.090	● / ▲	● / ▲	●	●
	80s	114.3	8.56	63.5	2.680	●	●	●	●
	160	114.3	13.49	63.5	4.300		●		
	XXS	114.3	17.12	63.5	5.090		●		
5"	10s	141.3	3.40	79.4	1.810	● / ▲	●	●	
	40s	141.3	6.55	79.4	3.430	▲	●	●	
	80s	141.3	9.53	79.4	4.570		●	●	
	160	141.3	15.88	79.4	7.350		●		
6"	10s	168.3	3.40	95.3	2.720	● / ▲	● / ▲	●	
	40s	168.3	7.11	95.3	5.440	● / ▲	● / ▲	●	●
	80s	168.3	10.97	95.3	7.500	●	●	●	●
	160	168.3	18.26	95.3	12.100		●		
	XXS	168.3	21.95	95.3	14.500		●		
8"	10s	219.1	3.76	127	5.330	● / ▲	● / ▲	●	
	40s	219.1	8.18	127	10.770	● / ▲	● / ▲	●	●
	80s	219.1	12.7	127	15.300	●	●	●	●
	160	219.1	23.01	127	26.600		●		
10"	10s	273.1	4.19	159.0	9.750	● / ▲	● / ▲		
	40s	273.1	9.27	159.0	19.280	● / ▲	● / ▲		
	80s	273.1	12.7	159.0	23.900	●	●		
12"	10s	323.9	4.57	190.5	13.610	● / ▲	● / ▲		
	40s	323.9	9.53	190.5	29.710	● / ▲	● / ▲		
	80s	323.9	12.7	190.5	34.400	●	● / ▲		
14"	10s	355.6	4.78	222.3	18.140	▲	▲		
16"	10s	406.4	4.78	254.0	23.810	▲	▲		
	SSTD	406.4	9.53	254.0	44.5		▲		
18"	10s	457.2	4.78	285.8	29.940	▲	▲		
20"	10s	508.0	5.54	317.5	49.890	▲	▲		
24"	10s	609.6	6.35	381.0	70.310	▲	▲		

SHORT RADIUS ELBOWS 90°

ASTM A403 ASME B16.9



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● WP-S = made from seamless pipe ● S32750 = made from seamless pipe
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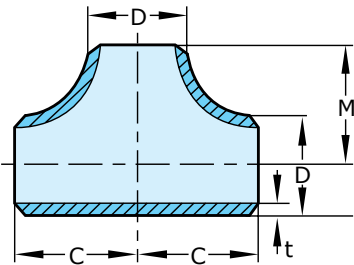
Nominal pipe size	Schedule	Dimension in mm			Approximate Weight kg/pce	304L	316L	S31803	S32750
		D	t	A					
1"	10s	33.4	2.77	25.4	0.100	● / ▲	▲		
	40s	33.4	3.38	25.4	0.120	▲	▲		
	80s	33.4	4.55	25.4	0.129				
1 1/4"	40s	42.4	3.56	31.8	0.2	▲	▲		
	80s	42.4	4.85	31.8	0.222				
1 1/2"	10s	48.3	2.77	38.1	0.220	● / ▲	▲		
	40s	48.3	3.68	38.1	0.290	▲	▲		
	80s	48.3	5.08	38.1	0.323				
2"	10s	60.3	2.77	50.8	0.370	● / ▲	▲		
	40s	60.3	3.91	50.8	0.510	▲	▲		
	80s	60.3	5.54	50.8	0.596		●		
2 1/2"	10s	73.0	3.05	63.5	0.620	▲	▲		
	40s	73.0	5.16	63.5	1.020	▲	▲		
	80s	73.0	7.01	63.5	1.140				
3"	10s	88.9	3.05	76.2	0.980	● / ▲	● / ▲		
	40s	88.9	5.49	76.2	1.500	▲	▲		
	80s	88.9	7.62	76.2	1.850				
4"	10s	114.3	3.05	101.6	1.720	● / ▲	● / ▲		
	40s	114.3	6.02	101.6	3.120	▲	▲		
	80s	114.3	8.56	101.6	3.560				
5"	10s	141.3	3.40	127.0	2.78	▲	▲		
	40s	141.3	6.55	127.0	5.28	▲	▲		
6"	10s	168.3	3.40	152.4	4.150	● / ▲	● / ▲		
	40s	168.3	7.11	152.4	7.150	▲	● / ▲		
	80s	168.3	10.97	152.4	11.790		●		
8"	10s	219.1	3.76	203.2	8.000	● / ▲	▲		
	40s	219.1	8.18	203.2	17.050	▲	▲		
10"	10s	273.1	4.19	254.0	12.400	● / ▲	▲		
	40s	273.1	9.27	254.0	24.000	▲	▲		
12"	10s	323.9	4.57	304.8	17.200	● / ▲	▲		
	40s	323.9	9.53	304.8	38.100	● / ▲	▲		
14"	10s	355.6	4.78	355.6	23.590	▲	▲		
16"	10s	406.4	4.78	406.4	30.840	▲	▲		
18"	10s	457.2	4.78	457.2	39.500	▲	▲		
20"	10s	508.0	4.78	508.0	65.000		▲		
24"	10s	609.6	6.35	609.6	92.000	▲	▲		



BUTTWELD ELBOWS

EQUAL TEE

ASTM A403 ASME B16.9



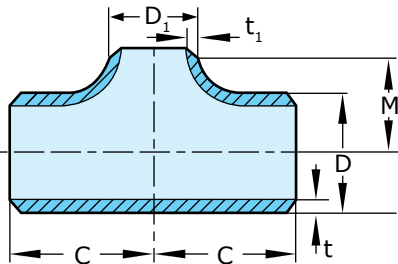
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Nominal pipe size	Schedule	Dimension in mm			Approximate Weight kg/pce	304L	316L	S31803	S32750
		D	t	C/M					
1/2"	10s	21.3	2.11	25.4	0.065	● / ▲	● / ▲	●	
	40s	21.3	2.77	25.4	0.085	● / ▲	● / ▲	●	
	80s	21.3	3.73	25.4	0.140	●	●	●	
	160	21.3	4.78	25.4	0.150		●	●	
3/4"	10s	26.7	2.11	28.6	0.092	● / ▲	● / ▲	●	
	40s	26.7	2.87	28.6	0.115	● / ▲	● / ▲	●	
	80s	26.7	3.91	28.6	0.200	●	●	●	
	160	26.7	5.56	28.6	0.300		●	●	
1"	10s	33.4	2.77	38.1	0.200	● / ▲	● / ▲	●	
	40s	33.4	3.38	38.1	0.245	● / ▲	● / ▲	●	
	80s	33.4	4.55	38.1	0.390	●	●	●	
	160	33.4	6.35	38.1	0.470		●	●	
1 1/4"	10s	42.2	2.77	47.6	0.330	● / ▲	● / ▲	●	
	40s	42.2	3.56	47.6	0.420	● / ▲	● / ▲	●	
	80s	42.2	4.85	47.6	0.548	●	●	●	
	160	42.2	6.35	47.6	0.890		●		
	XXS	42.2	9.70	47.6	1.200		●		
1 1/2"	10s	48.3	2.77	57.2	0.460	● / ▲	● / ▲	●	
	40s	48.3	3.68	57.2	0.595	● / ▲	● / ▲	●	
	80s	48.3	5.08	57.2	1.020	●	●	●	
	160	48.3	7.14	57.2	1.43		●	●	
	XXS	48.3	10.15	57.2	1.700		●		
2"	10s	60.3	2.77	63.5	0.630	● / ▲	● / ▲	●	●
	40s	60.3	3.91	63.5	0.872	● / ▲	● / ▲	●	●
	80s	60.3	5.54	63.5	1.590	●	●	●	●
	160	60.3	8.74	63.5	3.180		●	●	
	XXS	60.3	11.07	63.5	3.500		●	●	
2 1/2"	10s	73.0	3.05	76.2	1.100	● / ▲	● / ▲	●	
	40s	73.0	5.16	76.2	1.700	● / ▲	● / ▲	●	
	80s	73.0	7.01	76.2	2.790	●	●	●	
	160	73.0	9.52	76.2	3.630		●		

Nominal pipe size	Schedule	Dimension in mm			Approximate Weight kg/pce	304L	316L	S31803	S32750
		D	t	C/M					
3"	10s	88.9	3.05	85.7	1.370	● / ▲	● / ▲	●	●
	40s	88.9	5.49	85.7	1.900	● / ▲	● / ▲	●	●
	80s	88.9	7.62	85.7	4.450	●	●	●	●
	160	88.9	11.13	85.7	5.870		●	●	
	XXS	88.9	15.24	85.7	7.000		●	●	
3 1/2"	10s	101.6	3.05	95.3	1.740		● / ▲		
	40s	101.6	5.74	95.3	3.190		● / ▲		
4"	10s	114.3	3.05	104.8	2.150	● / ▲	● / ▲	●	●
	40s	114.3	6.02	104.8	4.130	● / ▲	● / ▲	●	●
	80s	114.3	8.56	104.8	7.710	●	●	●	●
	160	114.3	13.49	104.8	9.760		●	●	
	XXS	114.3	17.12	104.8	10.600		●	●	
5"	10s	141.3	3.40	123.8	3.480	● / ▲	● / ▲	●	
	40s	141.3	6.55	123.8	6.550	● / ▲	● / ▲	●	
	80s	141.3	9.53	123.8	11.340	●		●	
6"	10s	168.3	3.40	142.9	4.760	● / ▲	● / ▲	●	●
	40s	168.3	7.11	142.9	9.730	● / ▲	● / ▲	●	●
	80s	168.3	10.97	142.9	13.610	●	●	●	●
	160	168.3	18.26	142.9	23.300		●	●	
8"	10s	219.1	3.76	177.8	8.460	● / ▲	● / ▲	●	
	40s	219.1	8.18	177.8	18.000	● / ▲	● / ▲	●	●
	80S	219.1	12.70	177.8	30.300	●	●	●	●
	160	219.1	23.01	177.8	50.700		●		
10"	10s	273.1	4.19	215.9	14.200	● / ▲	● / ▲		
	40s	273.1	9.27	215.9	30.800	● / ▲	● / ▲		
	80S	273.1	12.70	215.9	44.200	●	●		
12"	10s	323.9	4.57	254.0	21.600	● / ▲	● / ▲		
	40s	323.9	9.53	254.0	44.300	● / ▲	● / ▲		
	80S	323.9	12.70	254.0	70.800	●	●		
14"	10s	355.6	4.78	279.4	48.530	▲	▲		
	STD	355.6	9.53	279.4	79.380	▲	▲		
16"	10s	406.4	4.78	304.8	58.970	▲	▲		
	STD	406.4	9.53	304.8	99.790	▲	▲		
18"	10s	457.2	4.78	342.9	76.660	▲	▲		
	STD	457.2	9.53	342.9	84.000		▲		
20"	10s	508.0	5.54	381.0	103.420	▲	▲		
	STD	508.0	9.53	381.0	114.000		▲		
24"	10s	609.6	6.35	431.8	155.580	▲	▲		
	STD	609.6	9.53	431.8	179.000		▲		

REDUCING TEE

ASTM A403 ASME B16.9



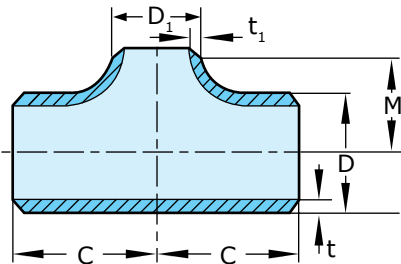
▲ WP-W = made from welded pipe or plate ● S31803 = made from seamless pipe
● WP-S = made from seamless pipe ● S32750 = made from seamless pipe
We keep only seamless duplex and super duplex fittings. We do not keep welded duplex and super duplex fittings.

Nominal pipe size			Schedule	Dimension in mm						Approximate Weight kg/pce	304L	316L	S31803	S32750
Run	x	Outlet		D	D ₁	t	t ₁	C	M					
3/4	x	1/2"	10s	26.7	21.3	2.11	2.11	29	29	0.110	● / ▲	● / ▲	●	
			40s	26.7	21.3	2.87	2.77	29	29	0.150	● / ▲	● / ▲	●	
			80s	26.7	21.3	3.91	3.73	29	29	0.190	●	●	●	
			160	26.7	21.3	5.56	4.78	29	29	0.210		●		
1	x	1/2"	10s	33.4	21.3	2.77	2.11	38	38	0.190	● / ▲	● / ▲	●	
			40s	33.4	21.3	3.38	2.77	38	38	0.220	● / ▲	● / ▲	●	
			80s	33.4	21.3	4.55	3.73	38	38	0.281	●	●	●	
			160	33.4	21.3	6.35	4.78	38	38	0.370		●		
	x	3/4"	10s	33.4	26.7	2.77	2.11	38	38	0.190	● / ▲	● / ▲	●	
			40s	33.4	26.7	3.38	2.87	38	38	0.230	● / ▲	● / ▲	●	
			80s	33.4	26.7	4.55	3.91	38	38	0.385	●	●	●	
			160	33.4	26.7	6.35	5.56	38	38	0.400		●		
1 1/4	x	1/2"	10s	42.2	21.3	2.77	2.11	47.6	47.6	0.367	● / ▲	●		
			40s	42.2	21.3	3.56	2.77	47.6	47.6	0.470	● / ▲	● / ▲		
	x	3/4"	10s	42.2	26.7	2.77	2.11	47.6	47.6	0.440	● / ▲	● / ▲	●	
			40s	42.2	26.7	3.56	2.87	47.6	47.6	0.500	● / ▲	● / ▲	●	
	x	1"	10s	42.2	33.4	2.77	2.77	47.6	47.6	0.450	▲	●	●	
			40s	42.2	33.4	3.56	3.38	47.6	47.6	0.530	●	● / ▲	●	
	x	1/2"	10s	48.3	21.3	2.77	2.11	57	57	0.390	● / ▲	● / ▲		
			40s	48.3	21.3	3.68	2.77	57	57	0.520	● / ▲	● / ▲		
1 1/2	x	1/2"	80s	48.3	21.3	5.08	3.73	57	57	0.700		●		
			10s	48.3	26.7	2.77	2.11	57	57	0.390	● / ▲	● / ▲	●	
			40s	48.3	26.7	3.68	2.87	57	57	0.520	● / ▲	● / ▲	●	
	x	3/4"	80S	48.3	26.7	5.08	3.91	57	57	1.000	●	●	●	
			10s	48.3	33.4	2.77	2.77	57	57	0.420	● / ▲	● / ▲	●	
			40s	48.3	33.4	3.68	3.38	57	57	0.550	● / ▲	● / ▲	●	
	x	1"	80s	48.3	33.4	5.08	4.55	57	57	0.724	●	●	●	
			160	48.3	33.4	7.14	6.35	57	57	1.280		●		
	x	1 1/4"	10s	48.3	42.2	2.77	2.77	57	57	0.680	▲		●	
			40s	48.3	42.2	3.68	3.56	57	57	0.850	▲		●	
2	x	1/2"	10s	60.3	21.3	2.77	2.11	64	44	0.780	● / ▲	● / ▲		
			40s	60.3	21.3	3.91	2.77	64	44	0.960	● / ▲	● / ▲		
			80s	60.3	21.3	5.54	3.73	64	44	1.140	● / ▲	●		
			10s	60.3	26.7	2.77	2.11	64	44	0.510	● / ▲	● / ▲		
	x	3/4"	40s	60.3	26.7	3.91	2.87	64	44	0.710	● / ▲	● / ▲		
			80s	60.3	26.7	5.54	3.91	64	44	1.020	●	●		
			160	60.3	26.7	8.74	5.56	64	44	1.520		●		
			XXS	60.3	26.7	11.07	7.82	64	44	1.760		●		
2	x	1"	10s	60.3	33.4	2.77	2.77	64	51	0.540	● / ▲	● / ▲	●	
			40s	60.3	33.4	3.91	3.38	64	51	0.740	● / ▲	● / ▲	●	
			80s	60.3	33.4	5.54	4.55	64	51	1.160	●	●	●	
			160	60.3	33.4	8.74	6.35	64	51	1.580		●		
			XXS	60.3	33.4	11.07	9.09	64	51	1.810		●		
	x	1 1/4"	10s	60.3	42.2	2.77	2.77	64	57	0.571	● / ▲	● / ▲	●	
			40s	60.3	42.2	3.91	3.56	64	57	0.804	● / ▲	● / ▲	●	
			80s	60.3	42.2	5.54	4.85	64	57	1.370		●		
			160	60.3	42.2	8.74	6.35	64	57	1.600		●		
			XXS	60.3	42.2	11.07	9.70	64	57	2.150		●		
	x	1 1/2"	10s	60.3	48.3	2.77	2.77	64	60	0.590	● / ▲	● / ▲	●	
			40s	60.3	48.3	3.91	3.68	64	60	0.830	● / ▲	● / ▲	●	
			80s	60.3	48.3	5.54	5.08	64	60	1.410	●	●	●	
			160	60.3	48.3	8.74	7.14	64	60	2.050		●	●	
			XXS	60.3	48.3	11.07	10.15	64	60	2.160		●		
2 1/2	x	1/2"	10s	73.0	21.3	3.05	2.11	76	67	1.230		▲		
			10s	73.0	26.7	3.05	2.11	76	67	1.240		▲		
	x	1"	10s	73.0	33.4	3.05	2.77	76	67	1.250	● / ▲	▲		
			40s	73.0	33.4	5.16	3,38	76	67	1.800	●	●		
			80s	73.0	33.4	7.01	4.55	76	67	2.220	●	●		
			160	73.0	33.4	9.53	6.35	76	67	2.830		●		
	x	1 1/4"	10s	73.0	42.2	3.05	2.77	76	67	0.874	● / ▲	● / ▲		
			10s	73.0	48.3	3.05	2.77	76	67	0.900	● / ▲	● / ▲		
	x	1 1/2"	40s	73.0	48.3	5.16	3.68	76	67	1.490	●	● / ▲	●	
			80s	73.0	48.3	7.01	5.08	76	67	2.280	●	●		
			160	73.0	48.3	9.53	7.14	76	67	2.880		●		
			10s	73.0	60.3	3.05	2.77	76	70	0.940	● / ▲	● / ▲		
3	x	1"	40s	73.0	60.3	5.16	3.91	76	70	1.530	●	● / ▲	●	
			80s	73.0	60.3	7.01	5.54	76	70	2.320	●	●		
			160	73.0	60.3	9.53	8.74	76	70	2.930		●		
	x	1 1/4"	10s	88.9	33.4	3.05	2.77	86	73	1.150	● / ▲	● / ▲	●	
			40s	88.9	33.4	5.49	3.38	86	73	2.050	● / ▲	● / ▲	●	
			80s	88.9	33.4	7.62	4.55	86	73	2.740	●	●	●	
	x	1 1/2"	10s	88.9	48.3	3.05	2.77	86	73	1.450	● / ▲	●		
			40s	88.9	48.3	5.49	3.56	86	73	2.280	●	●		
			160	88.9	48.3	11.13	6.35	86	73	4.130		●		
	x	1 1/2"	10s	88.9	48.3	3.05	2.77	86	73	1.650	● / ▲	● / ▲	●	
			40s	88.9	48.3	5.49	3.68	86	73	2.410	● / ▲	● / ▲	●	
			80s	88.9	48.3	7.62	5.08	86	73	2.800	●	●	●	
			160	88.9	48.3	11.13	7.14	86	73	4.330		●		
	x	2"	10s	88.9	60.3	3.05	2.77	86	76	1.750	● / ▲	● / ▲	●	
			40s	88.9	60.3	5.49	3.91	86	76	2.500	● / ▲	● / ▲	●	
			80s	88.9	60.3	7.62	5.54	86	76	2.880	●	●	●	
			160	88.9	60.3	11.13	8.74	86	76	4.130		●	●	
			XXS	88.9	60.3	15.24	11.07	86	76	5.180		●	●	
	x	2 1/2"	10s	88.9	73.0	3.05	3.05	86	83	1.870	● / ▲	● / ▲	●	
			40s	88.9	73.0	5.49	5.16	86	83	2.800	● / ▲	● / ▲	●	
			80s	88.9	73.0	7.62	7.01	86	76	3.430		●		
			160	88.9	73.0	11.13	9.53	86	76	4.930		●		

Nominal pipe size			Schedule	Dimension in mm					Approximate Weight	304L	316L	S31803	S32750	
Run	x	Outlet		D	D ₁	t	t ₁	C	M	kg/pce				
2	x	1"	10s	60.3	33.4	2.77	2.77	64	51	0.540	● / ▲	● / ▲	●	
			40s	60.3	33.4	3.91	3.38	64	51	0.740	● / ▲	● / ▲	●	
			80s	60.3	33.4	5.54	4.55	64	51	1.160	●	●	●	
			160	60.3	33.4	8.74	6.35	64	51	1.580		●		
			XXS	60.3	33.4	11.07	9.09	64	51	1.810		●		
	x	1 1/4"	10s	60.3	42.2	2.77	2.77	64	57	0.571	● / ▲	● / ▲	●	
			40s	60.3	42.2	3.91	3.56	64	57	0.804	● / ▲	● / ▲	●	
			80s	60.3	42.2	5.54	4.85	64	57	1.370		●		
			160	60.3	42.2	8.74	6.35	64	57	1.600		●		
			XXS	60.3	42.2	11.07	9.70	64	57	2.150		●		
	x	1 1/2"	10s	60.3	48.3	2.77	2.77	64	60	0.590	● / ▲	● / ▲	●	
			40s	60.3	48.3	3.91	3.68	64	60	0.830	● / ▲	● / ▲	●	
			80s	60.3	48.3	5.54	5.08	64	60	1.410	●	●	●	
			160	60.3	48.3	8.74	7.14	64	60	2.050		●	●	
			XXS	60.3	48.3	11.07	10.15	64	60	2.160		●		
	2 1/2	x	1/2"	10s	73.0	21.3	3.05	2.11	76	67	1.230		▲	
x				3/4"	10s	73.0	26.7	3.05	2.11	76	67	1.240		▲
x		1"	10s		73.0	33.4	3.05	2.77	76	67	1.250	● / ▲	▲	
			40s	73.0	33.4	5.16	3,38	76	67	1.800	●	●		
			80s	73.0	33.4	7.01	4.55	76	67	2.220	●	●		
			160	73.0	33.4	9.53	6.35	76	67	2.830		●		
x		1 1/4"	10s	73.0	42.2	3.05	2.77	76	67	0.874	● / ▲	● / ▲		
			x	1 1/2"	10s	73.0	48.3	3.05	2.77	76	67	0.900	● / ▲	● / ▲
40s		73.0			48.3	5.16	3.68	76	67	1.490	●	● / ▲	●	
80s		73.0			48.3	7.01	5.08	76	67	2.280	●	●		
160		73.0			48.3	9.53	7.14	76	67	2.880		●		
x		2"	10s	73.0	60.3	3.05	2.77	76	70	0.940	● / ▲	● / ▲		
			40s	73.0	60.3	5.16	3.91	76	70	1.530	●	● / ▲	●	
			80s	73.0	60.3	7.01	5.54	76	70	2.320	●	●		
			160	73.0	60.3	9.53	8.74	76	70	2.930		●		
3		x	1"	10s	88.9	33.4	3.05	2.77	86	73	1.150	● / ▲	● / ▲	●
	40s			88.9	33.4	5.49	3.38	86	73	2.050	● / ▲	● / ▲	●	
	80s			88.9	33.4	7.62	4.55	86	73	2.740	●	●	●	
	x	1 1/4"	10s	88.9	48.3	3.05	2.77	86	73	1.450	● / ▲	●		
			40s	88.9	48.3	5.49	3.56	86	73	2.280	●	●		
			160	88.9	48.3	11.13	6.35	86	73	4.130		●		
	x	1 1/2"	10s	88.9	48.3	3.05	2.77	86	73	1.650	● / ▲	● / ▲	●	
			40s	88.9	48.3	5.49	3.68	86	73	2.410	● / ▲	● / ▲	●	
			80s	88.9	48.3	7.62	5.08	86	73	2.800	●	●	●	
			160	88.9	48.3	11.13	7.14	86	73	4.330		●		
	x	2"	10s	88.9	60.3	3.05	2.77	86	76	1.750	● / ▲	● / ▲	●	
			40s	88.9	60.3	5.49	3.91	86	76	2.500	● / ▲	● / ▲	●	
			80s	88.9	60.3	7.62	5.54	86	76	2.880	●	●	●	
			160	88.9	60.3	11.13	8.74	86	76	4.130		●	●	
			XXS	88.9	60.3	15.24	11.07	86	76	5.180		●	●	
	x	2 1/2"	10s	88.9	73.0	3.05	3.05	86	83	1.870	● / ▲	● / ▲	●	
40s			88.9	73.0	5.49	5.16	86	83	2.800	● / ▲	● / ▲	●		
80s			88.9	73.0	7.62	7.01	86	76	3.430		●			
160	88.9	73.0	11.13	9.53	86	76	4.930		●					

REDUCING TEE

ASTM A403 ASME B16.9



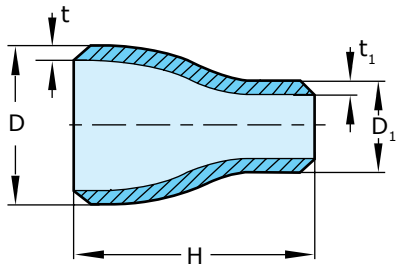
▲ WP-W = made from welded pipe or plate ● S31803 = made from seamless pipe
● WP-S = made from seamless pipe ● S32750 = made from seamless pipe
We keep only seamless duplex and super duplex fittings. We do not keep welded duplex and super duplex fittings.

Nominal pipe size			Schedule	Dimension in mm						Approximate Weight	304L	316L	S31803	S32750
Run	x	Outlet		D	D ₁	t	t ₁	C	M	kg/pce				
4	x	11/2"	10s	114.3	48.3	3.05	2.77	105	86	2.220	● / ▲	● / ▲		
			40s	114.3	48.3	6.02	3.68	105	86	3.960	● / ▲	● / ▲		
			80s	114.3	48.3	8.56	5.08	105	86	4.900		●		
			160	114.3	48.3	13.49	7.14	105	86	7.300		●		
	x	11/2"	XXS	114.3	48.3	17.12	10.15	105	86	8.870		●		
	x	2"	10s	114.3	60.3	3.05	2.77	105	89	2.350	● / ▲	● / ▲	●	
			40s	114.3	60.3	6.02	3.91	105	89	4.500	● / ▲	● / ▲	●	
			80s	114.3	60.3	8.56	5.54	105	89	5.000	●	●	●	
			160	114.3	60.3	13.49	8.74	105	89	8.900		●		
			XXS	114.3	60.3	17.12	11.07	105	89	9.020		●		
	x	2 1/2"	10s	114.3	73.0	3.05	3.05	105	95	2.450	● / ▲	● / ▲	●	
			40s	114.3	73.0	6.02	5.16	105	95	4.700	● / ▲	● / ▲	●	
			80s	114.3	73.0	8.56	7.01	105	95	6.090		●		
			160	114.3	73.0	13.49	9.53	105	95	8.960		●		
	x	3"	10s	114.3	88.9	3.05	3.05	105	98	2.5	● / ▲	● / ▲	●	
			40s	114.3	88.9	6.02	5.49	105	98	4.800	● / ▲	● / ▲	●	
			80s	114.3	88.9	8.56	7.62	105	98	6.120	●	●	●	
			160	114.3	88.9	13.49	11.13	105	98	9.290		●		
			XXS	114.3	88.9	17.12	15.24	105	98	9.760		●		
5	x	2 1/2"	10s	141.3	88.9	3.40	3.05	124	111	3.860	●	●		
			40s	141.3	88.9	6.55	5.16	124	111	5.700		●		
	x	3"	10s	141.3	88.9	3.40	3.05	124	111	4.350	● / ▲	● / ▲	●	
			40s	141.3	88.9	6.55	5.49	124	111	5.850	● / ▲	● / ▲	●	
	x	4"	10s	141.3	114.3	3.40	3.05	124	117	4.480	● / ▲	● / ▲	●	
			40s	141.3	114.3	6.55	6.02	124	117	6.140	● / ▲	● / ▲	●	
6	x	3"	10s	168.3	88.9	3.40	3.05	143	124	4.900	● / ▲	● / ▲	●	
			40s	168.3	88.9	7.11	5.49	143	124	9.800	● / ▲	● / ▲	●	
			80s	168.3	88.9	10.97	7.62	105	98	13.200	●	●	●	
			160	168.3	88.9	18.26	11.13	105	98	20.100		●		
			XXS	168.3	88.9	21.95	15.24	105	98	23.700		●		
	x	4"	10s	168.3	114.3	3.4	3.05	143	130	5.100	● / ▲	● / ▲	●	
			40s	168.3	114.3	7.11	6.02	143	130	10.000	● / ▲	● / ▲	●	
			80s	168.3	114.3	10.97	8.56	143	130	14.200	●	●	●	
	x	5"	10s	168.3	141.3	3.40	3.40	143	137	5.300	● / ▲	● / ▲	●	
			40s	168.3	141.3	7.11	6.55	143	137	10.400	● / ▲	● / ▲	●	

Nominal pipe size			Schedule	Dimension in mm					Approximate Weight	304L	316L	S31803	S32750	
Run	x	Outlet	D	D ₁	t	t ₁	C	M	kg/pce					
8	x	4"	10s	219.1	114.3	3.76	3.05	178	156	8.000	● / ▲	● / ▲	●	
			40s	219.1	114.3	8.18	6.02	178	156	17.500	● / ▲	● / ▲	●	
			80s	219.1	114.3	12.70	8.56	178	156	25.500	●	●	●	
			160	219.1	114.3	23.01	13.49	178	156	40.300		●		
	x	5"	10s	219.1	141.3	3.76	3.40	178	162	8.250	● / ▲	● / ▲		
			40s	219.1	141.3	8.18	6.55	178	162	17.800	● / ▲	● / ▲		
	x	6"	10s	219.1	168.3	3.76	3.40	178	168	8.400	● / ▲	● / ▲	●	
			40s	219.1	168.3	8.18	7.11	178	168	18.100	● / ▲	● / ▲	●	
			80s	219.1	168.3	12.70	10.97	178	168	29.000	●	●	●	
10	x	4"	10s	273.1	114.3	4.19	3.05	216	184	13.500	● / ▲	● / ▲		
			40s	273.1	114.3	9.27	6.02	216	184	29.300	● / ▲	● / ▲		
			80s	273.1	114.3	12.70	8.56	216	184	36.200		●		
	x	5"	10s	273.1	141.3	4.19	3.40	216	184	13.700	▲			
			10s	273.1	168.3	4.19	3.40	216	194	14.000	● / ▲	● / ▲		
	x	6"	40s	273.1	168.3	9.27	7.11	216	194	30.000	● / ▲	● / ▲		
			80s	273.1	168.3	12.70	10.97	216	194	37.000		●		
			x	8"	10s	273.1	219.1	4.19	3.76	216	203	14.500	● / ▲	● / ▲
	40s	273.1			219.1	9.27	8.18	216	203	31.000	● / ▲	● / ▲		
80s	273.1	219.1			12.70	12.7	216	203	38.900		●			
12	x	6"	10s	323.9	168.5	4.57	3.40	254	219	23.000	● / ▲	● / ▲		
			40s	323.9	168.5	9.53	7.11	254	219	52.000	● / ▲	● / ▲		
	x	8"	10s	323.9	219.1	4.57	3.76	254	229	24.000	● / ▲	● / ▲		
			40s	323.9	219.1	9.53	8.18	254	229	53.000	● / ▲	● / ▲		
			80s	323.9	219.1	12.70	12.7	254	229	57.300		●		
	x	10"	10s	323.9	273.1	4.57	4.19	254	241	25.000	● / ▲	● / ▲		
			40s	323.9	273.1	9.53	9.27	254	241	54.000	● / ▲	● / ▲		
80s			323.9	273.1	12.7	12.7	254	241	67.100		●			
14	x	8"	10s	355.6	219.1	4.78	3.76	279	270	27.100		▲		
	x	10"	10s	355.6	273.1	4.78	4.19	279	270	27.400		▲		
	x	12"	10s	355.6	323.9	4.78	4.57	279	270	28.000	▲	▲		
16	x	10"	10s	406.4	273.1	4.78	4.19	305	283	34.000		▲		
	x	12"	10s	406.4	323.9	4.78	4.57	305	283	34.900		▲		
18	x	12"	10s	457.0	323.9	4.78	4.57	343	321	49.900		▲		

CONCENTRIC REDUCER

ASTM A403 ASME B16.9



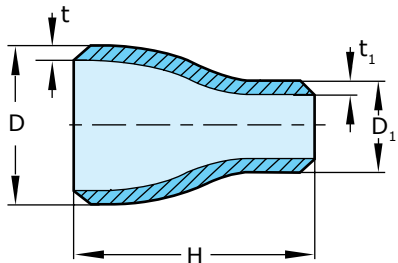
▲ WP-W = made from welded pipe or plate ● S31803 = made from seamless pipe
● WP-S = made from seamless pipe ● S32750 = made from seamless pipe
We keep only seamless duplex and super duplex fittings. We do not keep welded duplex and super duplex fittings.

Nominal pipe size			Schedule	Dimension in mm					Approximate Weight kg/pce				
Run	x	Outlet		D	D ₁	t	t ₁	H		304L	316L	S31803	S32750
3/4	x	3/8"	10s	26.7	17.1	2.11	1.65	39.3	0.070	▲			
	x	1/2"	10s	26.7	21.3	2.11	2.11	39.3	0.100	● / ▲	● / ▲	●	
			40s	26.7	21.3	2.87	2.77	39.3	0.140	● / ▲	● / ▲		
			80s	26.7	21.3	3.91	3.73	39.3	0.180	●	●		
			160	26.7	21.3	5.56	4.78	39.3	0.210		●		
			160	26.7	21.3	5.56	4.78	39.3	0.210		●		
1	x	1/2"	10s	33.4	21.3	2.77	2.11	50.8	0.120	● / ▲	● / ▲	●	
			40s	33.4	21.3	3.38	2.77	50.8	0.150	● / ▲	● / ▲	●	
			80s	33.4	21.3	4.55	3.73	50.8	0.200	●	●	●	
			160	33.4	21.3	6.35	4.78	50.8	0.230		●		
	x	3/4"	10s	33.4	26.7	2.77	2.11	50.8	0.130	● / ▲	● / ▲	●	
			40s	33.4	26.7	3.38	2.87	50.8	0.160	● / ▲	● / ▲	●	
			80s	33.4	26.7	4.55	3.91	50.8	0.220	●	●	●	
			160	33.4	26.7	6.35	5.56	50.8	0.250		●		
			160	33.4	26.7	6.35	5.56	50.8	0.250		●		
			160	33.4	26.7	6.35	5.56	50.8	0.250		●		
1 1/4	x	1/2"	10s	42.2	21.3	2.77	2.11	50.8	0.103	● / ▲	● / ▲	●	
			40s	42.2	21.3	3.56	2.77	50.8	0.132	● / ▲	● / ▲	●	
			80s	42.2	21.3	4.85	3.73	50.8	0.180		●		
	x	3/4"	10s	42.2	26.7	2.77	2.11	50.8	0.180	● / ▲	● / ▲	●	
			40s	42.2	26.7	3.56	2.87	50.8	0.220	● / ▲	● / ▲	●	
			80s	42.2	26.7	4.85	3.91	50.8	0.250	●	● / ▲		
	x	1"	10s	42.2	33.4	2.77	2.77	50.8	0.180	● / ▲	● / ▲	●	
			40s	42.2	33.4	3.56	3.38	50.8	0.220	● / ▲	● / ▲	●	
			80s	42.2	33.4	4.85	4.55	50.8	0.270		●		
			160	42.2	33.4	6.35	5.56	50.8	0.310		●		
			160	42.2	33.4	6.35	5.56	50.8	0.310		●		
			160	42.2	33.4	6.35	5.56	50.8	0.310		●		
1 1/2	x	1/2"	10s	48.3	21.3	2.77	2.11	63.5	0.200	● / ▲	● / ▲		
			40s	48.3	21.3	3.68	2.77	63.5	0.250	●	● / ▲		
			80s	48.3	21.3	5.08	3.73	63.5	0.310	●	●		
	x	3/4"	10s	48.3	26.7	2.77	2.11	63.5	0.200	● / ▲	● / ▲	●	
			40s	48.3	26.7	3.68	2.87	63.5	0.260	● / ▲	● / ▲	●	
			80s	48.3	26.7	5.08	3.91	63.5	0.370	●	●	●	
			160	48.3	26.7	7.14	6.35	63.5	0.500		●		
			160	48.3	26.7	7.14	6.35	63.5	0.500		●		
			160	48.3	26.7	7.14	6.35	63.5	0.500		●		
			160	48.3	26.7	7.14	6.35	63.5	0.500		●		

Nominal pipe size			Schedule	Dimension in mm					Approximate Weight kg/pce				
Run	x	Outlet		D	D ₁	t	t ₁	H		304L	316L	S31803	S32750
1 1/2	x	1"	10s	48.3	33.4	2.77	2.77	63.5	0.200	● / ▲	● / ▲	●	
			40s	48.3	33.4	3.68	3.38	63.5	0.260	● / ▲	● / ▲	●	
			80s	48.3	33.4	5.08	4.55	63.5	0.340	●	●	●	
			160	48.3	33.4	7.14	6.35	63.5	0.380		●		
			XXS	48.3	33.4	10.15	9.09	63.5	0.500		●		
	x	1 1/4"	10s	48.3	42.2	2.77	2.77	63.5	0.210	● / ▲	● / ▲	●	
			40s	48.3	42.2	3.68	3.56	63.5	0.280	● / ▲	● / ▲	●	
			80s	48.3	42.2	5.08	4.85	63.5	0.360	●	●		
			160	48.3	42.2	7.14	4.85	63.5	0.410		●		
			XXS	48.3	42.2	10.15	4.85	63.5	0.570		●		
			160	48.3	42.2	7.14	4.85	63.5	0.410		●		
			XXS	48.3	42.2	10.15	4.85	63.5	0.570		●		
2	x	1/2"	10s	60.3	21.3	2.77	2.11	76.2	0.210	▲	▲		
			40s	60.3	21.3	3.91	2.77	76.2	0.350		▲		
			80s	60.3	21.3	5.54	3.73	76.2	0.380		●		
	x	3/4"	10s	60.3	26.7	2.77	2.11	76.2	0.250	● / ▲	● / ▲		
			40s	60.3	26.7	3.91	2.87	76.2	0.370	● / ▲	● / ▲		
			80s	60.3	26.7	5.54	3.91	76.2	0.410	●	●		
			160	60.3	26.7	8.74	5.56	76.2	0.590		●	●	
			XXS	60.3	26.7	11.07	7.82	76.2	0.690		●		
			160	60.3	26.7	8.74	5.56	76.2	0.590		●	●	
	x	1"	10s	60.3	33.4	2.77	2.77	76.2	0.280	● / ▲	● / ▲	●	
			40s	60.3	33.4	3.91	3.38	76.2	0.400	● / ▲	● / ▲	●	
			80s	60.3	33.4	5.54	4.55	76.2	0.540	●	●	●	
			160	60.3	33.4	8.74	6.35	76.2	0.650		●	●	
			XXS	60.3	33.4	11.07	9.09	76.2	0.770		●	●	
			160	60.3	33.4	8.74	6.35	76.2	0.710		●		
	x	1 1/4"	10s	60.3	42.2	2.77	2.77	76.2	0.300	● / ▲	● / ▲	●	
			40s	60.3	42.2	3.91	3.56	76.2	0.440	● / ▲	● / ▲	●	
			80s	60.3	42.2	5.54	4.85	76.2	0.480	●	●		
			160	60.3	42.2	8.74	6.35	76.2	0.710		●		
			XXS	60.3	42.2	11.07	9.7	76.2	0.850		●		
			160	60.3	42.2	8.74	6.35	76.2	0.710		●		
	x	1 1/2"	10s	60.3	48.3	2.77	2.77	76.2	0.310	● / ▲	● / ▲	●	
			40s	60.3	48.3	3.91	3.68	76.2	0.450	● / ▲	● / ▲	●	
			80s	60.3	48.3	5.54	5.08	76.2	0.590	●	●	●	
			160	60.3	48.3	8.74	7.14	76.2	0.760		●		
			XXS	60.3	48.3	11.07	10.15	76.2	0.910		●		
			160	60.3	48.3	8.74	7.14	76.2	0.760		●		
			XXS	60.3	48.3	11.07	10.15	76.2	0.910		●		
			160	60.3	48.3	8.74	7.14	76.2	0.760		●		

CONCENTRIC REDUCER

ASTM A403 ASME B16.9



▲ WP-W = made from welded pipe or plate ● S31803 = made from seamless pipe
● WP-S = made from seamless pipe ● S32750 = made from seamless pipe
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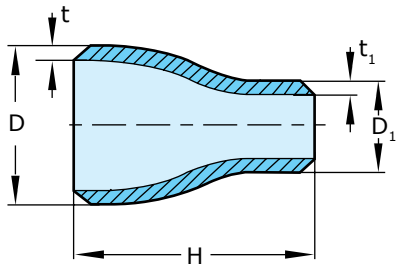
Nominal pipe size			Schedule	Dimension in mm					Approximate Weight kg/pce				
Run	x	Outlet		D	D ₁	t	t ₁	H		304L	316L	S31803	S32750
2 1/2	x	1"	10s	73.0	33.4	3.05	2.77	88.9	0.430	● / ▲	● / ▲	●	
			40s	73.0	33.4	5.16	3.38	88.9	0.590	● / ▲	● / ▲	●	
			80s	73.0	33.4	7.01	4.55	88.9	0.770		●	●	
			160	73.0	33.4	9.53	6.35	88.9	0.990		●		
	x	1 1/4"	10s	73.0	42.2	3.05	2.77	88.9	0.440	● / ▲	● / ▲	●	
			40s	73.0	42.2	5.16	3.56	88.9	0.640	● / ▲	● / ▲	●	
			80s	73.0	42.2	7.01	4.85	88.9	0.830		●		
	x	1 1/2"	10s	73.0	48.3	3.05	2.77	88.9	0.450	● / ▲	● / ▲	●	
			40s	73.0	48.3	5.16	3.68	88.9	0.769	● / ▲	● / ▲	●	
			80S	73.0	48.3	7.01	5.08	88.9	0.870	●	●	●	
			160	73.0	48.3	9.53	7.14	88.9	1.130		●		
			XXS	73.0	48.3	14.02	10.15	88.9	1.580		●		
	x	2"	10s	73.0	60.3	3.05	2.77	88.9	0.470	● / ▲	● / ▲	●	
			40s	73.0	60.3	5.16	3.91	88.9	0.800	● / ▲	● / ▲	●	
			80s	73.0	60.3	7.01	5.54	88.9	1.030	●	●		
			160	73.0	60.3	9.53	8.74	88.9	1.240		●		
			XXS	73.0	60.3	14.02	11.07	88.9	1.680		●		
3	x	1"	10s	88.9	33.4	3.05	2.77	88.9	0.490	● / ▲	● / ▲	●	
			40s	88.9	33.4	5.49	3.38	88.9	0.850	● / ▲	● / ▲	●	
			80S	88.9	33.4	7.62	4.55	88.9	0.960	●	●	●	
	x	1 1/4"	10s	88.9	42.2	3.05	2.77	88.9	0.530	● / ▲	● / ▲		
			40s	88.9	42.2	5.49	3.56	88.9	0.750	● / ▲	● / ▲		
			80s	88.9	42.2	7.62	4.85	88.9	1.030	●	●		
	x	1 1/2"	10s	88.9	48.3	3.05	2.77	88.9	0.510	● / ▲	● / ▲	●	
			40s	88.9	48.3	5.49	3.68	88.9	0.940	● / ▲	● / ▲	●	
			80s	88.9	48.3	7.62	5.08	88.9	1.210	●	●	●	
			160	88.9	48.3	11.13	7.14	88.9	1.450		●		
	x	2"	10s	88.9	60.3	3.05	2.77	88.9	0.550	● / ▲	● / ▲	●	
			40s	88.9	60.3	5.49	3.91	88.9	1.000	● / ▲	● / ▲	●	
			80s	88.9	60.3	7.62	5.54	88.9	1.290	●	●	●	
			160	88.9	60.3	11.13	8.74	88.9	1.590	●	●	●	
			XXS	88.9	60.3	15.24	11.07	88.9	2.000		●	●	
	x	2 1/2"	10s	88.9	73.0	3.05	3.05	88.9	0.590	● / ▲	● / ▲	●	
			40s	88.9	73.0	5.49	5.16	88.9	1.080	● / ▲	● / ▲	●	
			80s	88.9	73.0	7.62	7.01	88.9	1.490	●	●		
			160	88.9	73.0	11.13	9.53	88.9	1.770		●		

Nominal pipe size			Schedule	Dimension in mm					Approximate Weight kg/pce				
Run	x	Outlet		D	D ₁	t	t ₁	H		304L	316L	S31803	S32750
4	x	1 1/2"	10s	114.3	48.3	3.05	2.77	101.6	0.710	● / ▲	● / ▲	●	
			40s	114.3	48.3	6.02	3.68	101.6	1.180	● / ▲	● / ▲	●	
			80s	114.3	48.3	8.56	5.08	101.6	1.670	●	●	●	
			XXS	114.3	48.3	17.12	10.15	101.6	2.890		●		
	x	2"	10s	114.3	60.3	3.05	2.77	101.6	0.780	● / ▲	● / ▲	●	
			40s	114.3	60.3	6.02	3.91	101.6	1.570	● / ▲	● / ▲	●	
			80s	114.3	60.3	8.56	5.54	101.6	1.950	●	●	●	
			160	114.3	60.3	13.49	8.74	101.6	2.620		●	●	
			XXS	114.3	60.3	17.12	11.07	101.6	3.110		●	●	
	x	2 1/2"	10s	114.3	73.0	3.05	3.05	101.6	0.830	● / ▲	● / ▲	●	
			40s	114.3	73.0	6.02	5.16	101.6	1.660	● / ▲	● / ▲	●	
			80s	114.3	73.0	8.56	7.01	101.6	1.920	●	●	●	
			160	114.3	73.0	13.49	9.53	101.6	2.850		●		
	x	3"	10s	114.3	88.9	3.05	3.05	101.6	0.870	● / ▲	● / ▲	●	●
			40s	114.3	88.9	6.02	5.49	101.6	1.740	● / ▲	● / ▲	●	
			80s	114.3	88.9	8.56	7.62	101.6	2.330	●	●	●	
			160	114.3	88.9	13.49	11.13	101.6	3.040		●	●	
			XXS	114.3	88.9	17.12	15.24	101.6	4.000		●	●	
5	x	2 1/2"	10s	141.3	73.0	3.40	3.05	127.0	1.400	●	●		
			40s	141.3	73.0	6.55	5.16	127.0	2.190	●	●	●	
			160	141.3	73.0	15.88	9.53	127.0	4.780		●		
	x	3"	10s	141.3	88.9	3.40	3.05	127.0	1.450	● / ▲	● / ▲		
			40s	141.3	88.9	6.55	5.49	127.0	2.850	●	●	●	
			160	141.3	88.9	15.88	11.13	127.0	5.050		●		
	x	4"	10s	141.3	114.3	3.40	3.05	127.0	1.490	● / ▲	● / ▲		
			40s	141.3	114.3	6.55	6.02	127.0	2.980	● / ▲	● / ▲	●	
			80S	141.3	114.3	9.53	13.49	127.0	2.980		●		
6	x	2"	10s	168.3	60.3	3.40	2.77	139.7	0.170	●			
	x	3"	10s	168.3	88.9	3.40	3.05	139.7	1.820	● / ▲	● / ▲	●	
			40s	168.3	88.9	7.11	5.49	139.7	3.980	● / ▲	● / ▲	●	
			80s	168.3	88.9	10.97	7.62	139.7	5.510	●	●	●	
			160	168.3	88.9	18.26	11.13	139.7	7.150		●		
	x	4"	10s	168.3	114.3	3.40	3.05	139.7	1.950	● / ▲	● / ▲	●	●
			40s	168.3	114.3	7.11	6.02	139.7	4.080	● / ▲	● / ▲	●	
			80s	168.3	114.3	10.97	8.56	139.7	5.960	●	●	●	
			160	168.3	114.3	18.26	13.49	139.7	7.830		●		
			XXS	168.3	114.3	21.95	17.12	139.7	8.980		●		
	x	5"	10s	168.3	141.4	3.40	3.40	139.7	2.050	● / ▲	● / ▲		
			40s	168.3	141.4	7.11	6.55	139.7	4.180	● / ▲	● / ▲	●	
			80S	168.3	141.4	10.97	9.53	139.7	5.430		●		
			160	168.3	141.4	18.26	15.88	139.7	8.530		●		

CONCENTRIC REDUCER

ASTM A403 ASME B16.9

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● WP-S = made from seamless pipe ● S32750 = made from seamless pipe
We keep only seamless duplex and super duplex fittings. We do not keep welded duplex and super duplex fittings.

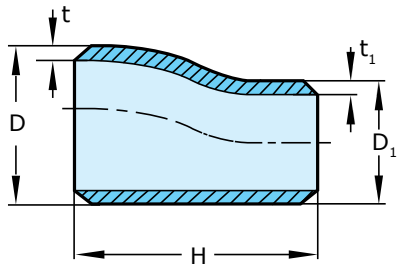


Nominal pipe size			Schedule	Dimension in mm					Approximate Weight				
Run	x	Outlet		D	D ₁	t	t ₁	H	kg/pce	304L	316L	S31803	S32750
8	x	4"	10s	219.1	114.3	3.76	3.05	152.4	3.020	● / ▲	● / ▲	●	
			40s	219.1	114.3	8.18	6.02	152.4	6.550	● / ▲	● / ▲	●	
			80s	219.1	114.3	12.70	8.56	152.4	7.800	●	●	●	
	x	5"	10s	219.1	141.3	3.76	3.40	152.4	3.080	● / ▲	● / ▲		
			40s	219.1	141.3	8.18	6.55	152.4	6.700	●	●		
			80s	219.1	141.3	12.70	9.53	152.4	8.250		●		
	x	6"	10s	219.1	168.3	3.76	3.40	152.4	3.190	● / ▲	● / ▲	●	
			40s	219.1	168.3	8.18	7.11	152.4	6.940	● / ▲	● / ▲	●	
			80s	219.1	168.3	12.70	10.97	152.4	8.750	●	●	●	
10	x	4"	10s	273.1	114.3	4.19	3.05	177.8	4.800	● / ▲	● / ▲		
			40s	273.1	114.3	9.27	6.02	177.8	8.300	● / ▲	●		
			80s	273.1	114.3	12.70	8.56	177.8	11.400	●			
	x	5"	40s	273.1	141.3	9.27	6.55	177.8	8.600	▲			
			80s	273.1	141.3	12.70	9.53	177.8	11.600		●		
	x	6"	10s	273.1	168.3	4.19	3.40	177.8	5.000	● / ▲	● / ▲		
			40s	273.1	168.3	9.27	7.11	177.8	11.120	● / ▲	● / ▲		
			80s	273.1	168.3	12.70	10.97	177.8	12.300	●	●		
	x	8"	10s	273.1	219.1	4.19	3.76	177.8	5.250	● / ▲	● / ▲		
			40s	273.1	219.1	9.27	8.18	177.8	11.560	● / ▲	● / ▲		
			80s	273.1	219.1	12.7	12.7	177.8	12.9		●		
12	x	6"	10s	323.9	168.3	4.57	3.40	203.2	6.580	● / ▲	● / ▲		
			40s	323.9	168.3	9.53	7.11	203.2	12.800	● / ▲	● / ▲		
			80s	323.9	168.3	12.7	10.97	203.2	15.7		●		
	x	8"	10s	323.9	219.1	4.57	3.76	203.2	7.670	● / ▲	● / ▲		
			40s	323.9	219.1	9.53	8.18	203.2	15.980	● / ▲	● / ▲		
			80s	323.9	219.1	12.70	12.70	203.2	16.800	●	●		
	x	10"	10s	323.9	273.1	4.57	4.19	203.2	7.980	● / ▲	● / ▲		
			40s	323.9	273.1	9.53	9.27	203.2	16.630	● / ▲	● / ▲		
			80s	323.9	273.1	12.70	12.70	203.2	18.200	●	●		
14	x	6"	10s	355.6	168.3	4.78	3.40	330.2	13.200	▲			
	x	8"	10s	355.6	219.1	4.78	3.76	330.2	13.880	▲	▲		
	x	10"	10s	355.6	273.1	4.78	4.19	330.2	14.410	▲	▲		
	x	12"	10s	355.6	323.9	4.78	4.57	330.2	15.290	▲	▲		
16	x	8"	10s	406.4	219.1	4.78	3.76	355.6	16.500	▲	▲		
	x	10"	10s	406.4	273.1	4.78	4.19	355.6	17.720	▲	▲		
	x	12"	10s	406.4	323.9	4.78	4.57	355.6	18.350	▲	▲		
	x	14"	10s	406.4	355.6	4.78	4.78	355.6	18.900	▲	▲		
18	x	14"	10s	457.2	355.6	4.78	4.78	381.0	21.900		▲		
	x	16"	10s	457.2	406.4	4.78	4.78	381.0	19.200		▲		
20	x	16"	10s	508.0	406.4	5.54	4.78	508.0	38.410		▲		
	x	18"	10s	508.0	457.2	5.54	4.78	508.0	33.100		▲		
24	x	20"	10s	609.6	508.0	6.35	5.54	508.0	46.720		▲		

ECCENTRIC REDUCER

ASTM A403 ASME B16.9

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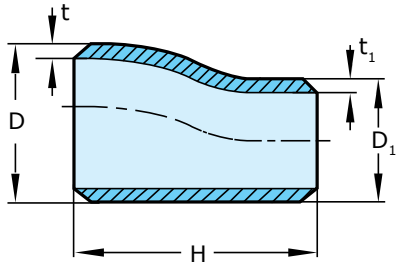


Nominal pipe size			Schedule	Dimension in mm					Approximate Weight				
Run	x	Outlet		D	D ₁	t	t ₁	H	kg/pce	304L	316L	S31803	S32750
3/4	x	1/2"	10s	26.7	21.3	2.11	2.11	39.3	0.100	● / ▲	● / ▲		
			40s	26.7	21.3	2.87	2.77	39.3	0.140	● / ▲	● / ▲		
			80s	26.7	21.3	3.91	3.73	39.3	0.165		●		
1	x	1/2"	10s	33.4	21.3	2.77	2.11	50.8	0.120	● / ▲	● / ▲	●	
			40s	33.4	21.3	3.38	2.77	50.8	0.150	● / ▲	● / ▲		
			80s	33.4	21.3	4.55	3.73	50.8	0.175	●	●		
	x	3/4"	10s	33.4	26.7	2.77	2.11	50.8	0.130	● / ▲	● / ▲		
			40s	33.4	26.7	3.38	2.87	50.8	0.160	● / ▲	● / ▲		
			80s	33.4	26.7	4.55	3.91	50.8	0.180	●	●		
1 1/4	x	1/2"	10s	42.2	33.4	2.77	2.77	50.8	0.180	▲			
			40S	42.2	33.4	3.56	3.38	50.8	0.220	▲			
	x	1"	10s	42.2	33.4	2.77	2.77	50.8	0.180	● / ▲	● / ▲		
			40S	42.2	33.4	3.56	3.38	50.8	0.220	● / ▲	● / ▲		
			160	42.2	33.4	6.35	6.35	50.8	0.260		●		
1 1/2	x	1/2"	10s	48.3	21.3	2.77	2.11	63.5	0.186	● / ▲	● / ▲		
			40s	48.3	21.3	3.68	2.77	63.5	0.193	● / ▲	● / ▲		
			80s	48.3	21.3	5.08	3.73	63.5	0.25		●		
			160	48.3	21.3	7.14	4.78	63.5	0.32		●		
	x	3/4"	10s	48.3	26.7	2.77	2.11	63.5	0.200	● / ▲	● / ▲		
			40s	48.3	26.7	3.68	2.87	63.5	0.260	● / ▲	● / ▲		
			80s	48.3	26.7	5.08	3.91	63.5	0.27		●		
	x	1"	10s	48.3	33.4	2.77	2.77	63.5	0.200	● / ▲	● / ▲		
			40s	48.3	33.4	3.68	3.38	63.5	0.260	● / ▲	● / ▲		
			80s	48.3	33.4	5.08	4.55	63.5	0.300	●	●		
	x	1 1/4"	10s	48.3	42.2	2.77	2.77	63.5	0.210	● / ▲	● / ▲		
			40s	48.3	42.2	3.68	3.56	63.5	0.280	● / ▲	● / ▲		
	x	1/2"	40a	60.3	21.3	3.91	2.77	76.2	0.380		●		
			80s	60.3	21.3	5.54	3.73	76.2	0.400		●		
	x	3/4"	10s	60.3	26.7	2.77	2.11	76.2	0.280	●	● / ▲		
			40s	60.3	26.7	3.91	2.87	76.2	0.380	● / ▲	● / ▲		
			80s	60.3	26.7	5.54	3.91	63.5	0.410	●	●		
			XXS	60.3	26.7	11.07	7.82	63.5	0.690		●		
2	x	1"	10s	60.3	33.4	2.77	2.77	76.2	0.280	● / ▲	● / ▲		
			40s	60.3	33.4	3.91	3.38	76.2	0.400	● / ▲	● / ▲		
			80S	60.3	33.4	5.54	4.55	76.2	0.440	●	●		
			160	60.3	33.4	8.74	6.35	76.2	0.650		●		
			XXS	60.3	33.4	11.07	9.09	76.2	0.770		●		
2	x	1 1/4"	10s	60.3	42.2	2.77	2.77	76.2	0.300	● / ▲	● / ▲		

ECCENTRIC REDUCER

ASTM A403 ASME B16.9

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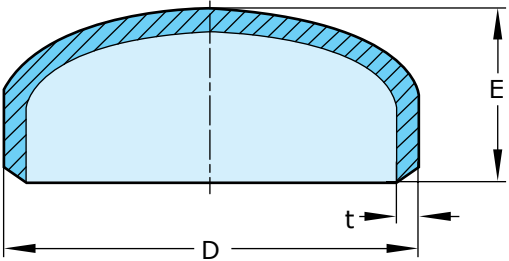


Nominal pipe size			Schedule	Dimension in mm					Approximate Weight	304L	316L	S31803	S32750
Run	x	Outlet		D	D ₁	t	t ₁	H	kg/pce				
2	x	1 1/2"	10s	60.3	48.3	2.77	2.77	76.2	0.310	● / ▲	● / ▲		
			40s	60.3	48.3	3.91	3.68	76.2	0.450	● / ▲	● / ▲		
			80S	60.3	48.3	5.54	5.08	76.2	0.510	●	●		
			XXS	60.3	48.3	11.07	10.15	76.2	0.910		●		
2 1/2	x	1"	10S	73	33.4	3.05	2.77	88.9	0.440	●	●		
			40s	73	33.4	5.16	3.38	88.9	0.590		●		
	x	1 1/4"	40s	73	42.2	5.16	3.56	88.9	0.640		▲		
			10S	73	48.3	3.05	2.77	88.9	0.440		●		
	x	1 1/2"	80S	73	48.3	7.01	5.08	88.9	0.870	●	●		
			10s	73	60.3	3.05	2.77	88.9	0.470	● / ▲	● / ▲		
		2"	40s	73	60.3	5.16	3.91	88.9	0.800	●	● / ▲		
			80S	73	48.3	7.01	5.54	88.9	0.960		●		
3	x	1"	40s	88.9	33.4	5.49	3.38	88.9	0.760	●	●		
	x	1 1/2"	10s	88.9	48.3	3.05	2.77	88.9	0.510	● / ▲	● / ▲		
			40s	88.9	48.3	5.49	3.68	88.9	0.940	● / ▲	● / ▲		
			80s	88.9	48.3	7.62	5.08	88.9	1.050	●	●		
	x	2"	10s	88.9	60.3	3.05	2.77	88.9	0.550	● / ▲	● / ▲		
			40s	88.9	60.3	5.49	3.91	88.9	1.000	● / ▲	● / ▲		
			80s	88.9	60.3	7.62	5.54	88.9	1.140	●	●		
			160	88.9	60.3	11.13	8.74	88.9	1.590		●		
	x	2 1/2"	10s	88.9	73.0	3.05	2.77	88.9	0.590	● / ▲	● / ▲		
			40s	88.9	73.0	5.49	5.16	88.9	1.080	●	●		
4	x	1 1/2"	10s	114.3	48.3	3.05	2.77	101.6	0.629	▲	▲		
			40s	114.3	48.3	6.02	3.68	101.6	1.200	●	●		
			80s	114.3	48.3	8.56	5.08	101.6	1.670	●	●		
			XXS	114.3	48.3	17.12	10.15	101.6	2.890		●		
			10s	114.3	60.3	3.05	2.77	101.6	0.780	● / ▲	● / ▲		
	x	2"	40s	114.3	60.3	6.02	3.91	101.6	1.570	● / ▲	● / ▲		
			80s	114.3	60.3	8.56	5.54	101.6	1.780	●	●		
			XXS	114.3	60.3	17.12	11.07	101.6	3.740		●		
	x	2 1/2"	10s	114.3	73	3.05	3.05	101.6	0.830	● / ▲	● / ▲		
			40s	114.3	73	6.02	5.16	101.6	1.660	●	●		
			80S	114.3	73	8.56	7.01	101.6	1.920		●		
	x	3"	10s	114.3	88.9	3.05	3.05	101.6	0.870	● / ▲	● / ▲		
			40s	114.3	88.9	6.02	5.49	101.6	1.740	● / ▲	● / ▲		
			80s	114.3	88.9	8.56	7.62	101.6	2.040	●	●		
			XXS	114.3	88.9	17.12	15.24	101.6	3.650		●		

Nominal pipe size			Schedule	Dimension in mm					Approximate Weight	304L	316L	S31803	S32750
Run	x	Outlet		D	D ₁	t	t ₁	H	kg/pce				
5	x	3"	10s	141.3	88.9	3.40	3.05	127.0	1.450	● / ▲			
			40s	141.3	88.9	6.55	5.49	127.0	2.850		● / ▲		
	x	4"	10s	141.3	114.3	3.40	3.05	127.0	1.490	● / ▲	● / ▲		
			40s	141.3	114.3	6.55	6.02	127.0	2.980	● / ▲	● / ▲		
6	x	3"	10s	168.3	88.9	3.40	3.05	139.7	1.820	● / ▲	● / ▲		
			40s	168.3	88.9	7.11	5.49	139.7	3.980	● / ▲	● / ▲		
			80s	168.3	88.9	10.97	7.62	139.7	4.610	●	●		
	x	4"	10s	168.3	114.3	3.40	3.05	139.7	1.950	● / ▲	● / ▲		
			40s	168.3	114.3	7.11	6.02	139.7	4.080	● / ▲	● / ▲		
			80s	168.3	114.3	10.97	8.56	139.7	5.000	●	●		
	x	5"	10s	168.3	141.3	3.40	3.40	139.7	2.000	● / ▲	● / ▲		
			40s	168.3	141.3	7.11	6.55	139.7	4.150	● / ▲	● / ▲		
8	x	4"	10s	219.1	114.3	3.76	3.05	152.4	3.020	● / ▲	● / ▲		
			40s	219.1	114.3	8.18	6.02	152.4	6.550	● / ▲	● / ▲		
			80s	219.1	114.3	12.70	8.56	152.4	7.800	●	●		
	x	5"	10s	219.1	141.3	3.76	3.40	152.4	3.080	● / ▲	● / ▲		
			40s	219.1	141.3	8.18	6.55	152.4	6.700	● / ▲	● / ▲		
	x	6"	10s	219.1	168.3	3.76	3.40	152.4	3.190	● / ▲	● / ▲		
			40s	219.1	168.3	8.18	7.11	152.4	6.940	● / ▲	● / ▲		
			80s	219.1	168.3	12.7	10.97	152.4	8.750	●	●		
	x	4"	10s	273.1	114.3	4.19	3.05	177.8	4.800	● / ▲	▲		
			40s	273.1	114.3	9.27	6.02	177.8	8.300	▲	● / ▲		
	x	5"	10s	273.1	141.3	4.19	3.40	177.8	4.890	▲	▲		
			40s	273.1	141.3	9.27	6.55	177.8	8.600	▲	▲		
10	x	6"	10s	273.1	168.3	4.19	3.40	177.8	5.000	● / ▲	● / ▲		
			40s	273.1	168.3	9.27	7.11	177.8	11.120	● / ▲	● / ▲		
	x	8"	10s	273.1	219.1	4.19	3.76	177.8	5.250	● / ▲	● / ▲		
			40s	273.1	219.1	9.27	8.18	177.8	11.560	● / ▲	● / ▲		
	x	6"	10s	323.9	168.3	4.57	3.40	203.2	7.450	● / ▲	● / ▲		
			40s	323.9	168.3	9.53	7.11	203.2	11.120	● / ▲	● / ▲		
	x	8"	10s	323.9	219.1	4.57	3.76	203.2	7.670	● / ▲	● / ▲		
			40s	323.9	219.1	9.53	8.18	203.2	15.980	● / ▲	● / ▲		
12	x	10"	10s	323.9	273.1	4.57	4.19	203.2	7.980	● / ▲	● / ▲		
			40s	323.9	273.1	9.53	9.27	203.2	16.630	● / ▲	● / ▲		
	x	8"	10s	355.6	219.1	4.78	3.76	330.2	13.880	▲	▲		
			10s	355.6	273.1	4.78	4.19	330.2	14.410	▲	▲		
14	x	12"	10s	355.6	323.9	4.78	4.19	330.2	15.290	▲	▲		
16	x	8"	10s	406.4	219.1	4.78	3.78	355.6	16.700	▲			
	x	10"	10s	406.4	273.1	4.78	4.19	355.6	17.720	▲	▲		
	x	12"	10s	406.4	323.9	4.78	4.57	355.6	18.350	▲	▲		
	x	12"	10s	406.4	323.9	4.78	4.57	355.6	18.350	▲	▲		
18	x	12"	10s	457.0	323.9	4.78	4.57	381.0	21.480	▲			
20	x	16"	10s	508.0	406.4	5.54	4.78	508.0	38.410	▲			
24	x	18"	10s	610.0	457.0	6.35	4.78	508.0	45.360	▲			
	x	20"	10s	610.0	508.0	6.35	5.54	508.0	46.720	▲			

END CAP

ASTM A403 ASME B16.9



▲ WP-W = made from welded pipe or plate ● S31803 = made from seamless pipe
● WP-S = made from seamless pipe ● S32750 = made from seamless pipe
We keep only seamless duplex and super duplex fittings. We do not keep welded duplex and super duplex fittings.

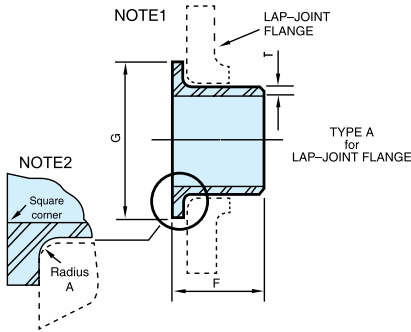
Nominal pipe size	Schedule	Dimension in mm			Approximate Weight kg/pce	304L	316L	S31803	S32750
		D	t	E					
1/2"	10s	21.3	2.11	25.4	0.040	●	●		
	40s	21.3	2.77	25.4	0.050	●	●		
	80s	21.3	3.73	25.4	0.050	●	●		
3/4"	10s	26.7	2.11	25.4	0.050	●	●		
	40s	26.7	2.87	25.4	0.060	●	●		
	80s	26.7	3.91	25.4	0.060	●	●		
1"	10s	33.4	2.77	38.1	0.090	●	●		
	40s	33.4	3.38	38.1	0.130	●	●		
	80s	33.4	4.55	38.1	0.130	●	●		
1 1/4"	10s	42.2	2.77	38.1	0.130	●	●		
	40s	42.2	3.56	38.1	0.170	●	●		
	80s	42.2	4.85	38.1	0.180	●	●		
1 1/2"	10s	48.3	2.77	38.1	0.140	●	●		
	40s	48.3	3.68	38.1	0.230	●	●		
	80s	48.3	5.08	38.1	0.240	●	●		
2"	10s	60.3	2.77	38.1	0.170	●	●		
	40s	60.3	3.91	38.1	0.270	●	●		
	80s	60.3	5.54	38.1	0.340	●	●		
	160	60.3	8.74	38.1	0.520		●		
2 1/2"	10s	73.0	3.05	38.1	0.250	●	●		
	40s	73.0	5.16	38.1	0.450	●	●		
	80s	73.0	7.01	38.1	0.510	●	●		
	160	73.0	9.53	38.1	1.400		●		
3"	10s	88.9	3.05	50.8	0.400	●	●		
	40s	88.9	5.49	50.8	0.710	●	●		
	80s	88.9	7.62	50.8	0.850	●	●		
	160	88.9	11.13	50.8	1.840		●	●	

Nominal pipe size	Schedule	Dimension in mm			Approximate Weight kg/pce	304L	316L	S31803	S32750
		D	t	A					
4"	10s	114.3	3.05	63.5	0.650	●	●		
	40s	114.3	6.02	63.5	1.220	●	●		
	80s	114.3	8.56	63.5	1.610	●	●		
	160	114.3	13.49	63.5	2.760		●		
5"	10s	141.3	3.40	76.2	1.020	●	●		
	40s	141.3	6.55	76.2	1.910	●	●		
	80s	141.3	9.53	76.2	2.550		●		
6"	10s	168.3	3.40	88.9	1.360	●	●		
	40s	168.3	7.11	88.9	3.230	●	●		
	80s	168.3	10.97	88.9	4.540	●	●		
	XXS	168.3	21.95	88.9	9.380		●		
8"	10s	219.1	3.76	101.6	2.490	●	●		
	40s	219.1	8.18	101.6	5.670	●	●		
	80s	219.1	12.70	101.6	7.910	●	●		
10"	10s	273.1	4.19	127.0	4.900	●	●		
	40s	273.1	9.27	127.0	9.210	●	●		
	80s	273.10	12.70	127.0	12.380		●		
12"	10s	323.9	4.57	152.4	6.530	●	●		
	40s	323.9	9.53	152.4	13.060	●	●		
	80s	323.90	12.70	152.4	17.400		●		
14"	10s	355.6	4.78	165.1	8.160	●	●		
	STD	355.6	9.53	165.1	15.900		●		
16"	10s	406.4	4.78	177.8	14.510	●	●		
	STD	406.4	9.53	177.8	20.000		●		
18"	10s	457.2	4.78	203.2	17.960	●	●		
20"	10s	508.0	5.54	228.6	27.220	●	●		
24"	10s	609.6	6.35	266.7	34.470	●	●		

LAP JOINT (STUB END)

SCH 10S, 40S

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Nominal pipe size	Outside Diameter OD	Length F	Dia. of Lap-G Nominal & Maximum	Radius of Fillet A	Schedule	Wall hickness T	Approx. Weight (kg)	304L	316L	S31803	S32750
1/2"	0.84	2.00	1.38	0.12	10s	0.083	0.062	●	●		
					40s	0.109	0.079	●	●		
3/4"	1.05	2.00	1.69	0.12	10s	0.083	0.081	●	●		
					40s	0.113	0.101		●		
1"	1.32	2.00	2.00	0.12	10s	0.109	0.134	▲	▲		
					40s	0.133	0.160		●		
1 1/4"	1.66	2.00	2.50	0.19	10s	0.109	0.178	● / ▲	●		
					40s	0.140	0.225	●	●		
1 1/2"	1.90	2.00	2.88	0.25	10s	0.109	0.213	●			
					40s	0.145	0.279				
2"	2.38	2.50	3.62	0.31	10s	0.109	0.338				
					40s	0.154	0.471				
2 1/2"	2.88	2.50	4.12	0.31	10s	0.120	0.448	●	●		
					40s	0.203	0.740	●	●		
3"	3.50	2.50	5.00	0.38	10s	0.120	0.574				
					40s	0.216	1.010				
3 1/2"	4.00	3.00	5.50	0.38	10s	0.120	0.150				
					40s	0.226	1.380				
4"	4.50	3.00	6.19	0.44	10s	0.120	0.870				
					40s	0.237	1.68	●			
5"	5.56	3.00	7.31	0.44	10s	0.134	1.21	●	●		
					40s	0.258	2.28	●	●		
6"	6.62	3.50	8.50	0.50	10s	0.134	1.64				
					40s	0.280	3.37		▲		
8"	8.62	4.00	10.62	0.50	10s	0.148	2.65				
					40s	0.322	5.67				
10"	10.75	5.00	12.75	0.50	10s	0.166	4.38				
					40s	0.365	9.55				
12"	12.75	6.00	15.00	0.50	10s	0.180	6.74				
					40s	0.375	13.8				
14"	14.00	6.00	16.25	0.50	10s	0.188	7.73				
16"	16.00	6.00	18.50	0.50	10s	0.188	9.00				
18"	18.00	6.00	21.00	0.50	10s	0.188	10.5				
20"	20.00	6.00	23.00	0.50	10s	0.218	13.5				
24"	24.00	6.00	27.25	0.50	10s	0.250	18.9	▲			



IN-HOUSE PMI TESTING