

N.U STAINLESS STEEL DOUBLE PRESS

N.U Stainless Steel Pipes and Fittings

- Approved by WSD (Water Supply Department) & WRAS (Water Regulations Advisory Scheme)
- Standard : EN10312 Series II
- Supplied by ISO9001 / ISO14001 / OHSAS18001 accredited manufacturer.

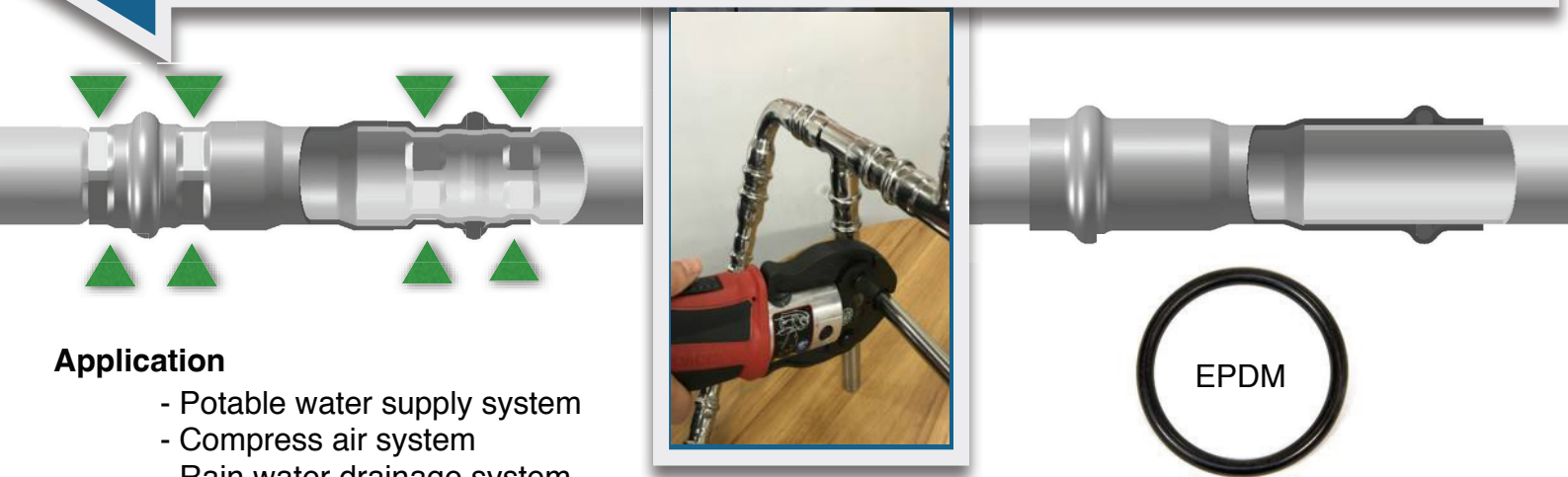
Material

- Stainless steel : Grade : 304 / 316L
- O-Ring : Ethylene Propylene Diene Monomer EPDM (Black) / -40 to 110 degree

N.U Double Press

- Pressing Range : DN15.0mm - 108.0mm
- Connection made by N.U electric pressing tools with dual side press jaw.
- EPDM O-Ring will not be damaged or deformed after the Double-Pressing process.
- Can withstand up to 50.0 bars of hydrostatic pressure

Double Pressing



Application

- Potable water supply system
- Compress air system
- Rain water drainage system
- Installation of catering equipment



Plain Pipe (光身管)



DN	O.D x Thickness(mm) x Length	Product Code (304/316L)
15	15.0 x 1.0 x 6000	PP0156M / PP3160151M
20	22.0 x 1.2 x 6000	PP0226M / PP3160221M
25	28.0 x 1.2 x 6000	PP0286M / PP3160281M
32	35.0 x 1.5 x 6000	PP0356M / PP3160351M
40	42.0 x 1.5 x 6000	PP0426M / PP3160421M
50	54.0 x 1.5 x 6000	PP0546M / PP3160541M
65	76.1 x 2.0 x 6000	PP0766M / PP3160761M
80	88.9 x 2.0 x 6000	PP0886M / PP3160881M
100	108.0 x 2.0 x 6000	PP1086M / PP3161081M

PE Covered Pipe (防腐管材) - BLUE (藍色)



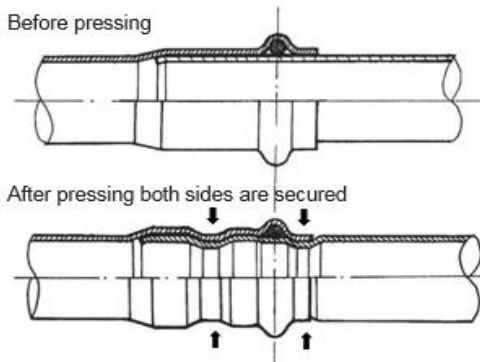
DN	O.D x Thickness(mm) x Length	Product Code (304/316L)
15	15.0 x 1.0 x 6000	PP0156M / PP3160151M
20	22.0 x 1.2 x 6000	PP0226M / PP3160221M
25	28.0 x 1.2 x 6000	PP0286M / PP3160281M
32	35.0 x 1.5 x 6000	PP0356M / PP3160351M
40	42.0 x 1.5 x 6000	PP0426M / PP3160421M
50	54.0 x 1.5 x 6000	PP0546M / PP3160541M
65	76.1 x 2.0 x 6000	PP0766M / PP3160761M
80	88.9 x 2.0 x 6000	PP0886M / PP3160881M
100	108.0 x 2.0 x 6000	PP1086M / PP3161081M

Corrugated PE Covered Pipe (保温管材) - GREY (灰色)



DN	O.D x Thickness(mm) x Length	Product Code (304/316L)
15	15.0 x 1.0 x 6000	PP0156M / PP3160151M
20	22.0 x 1.2 x 6000	PP0226M / PP3160221M
25	28.0 x 1.2 x 6000	PP0286M / PP3160281M
32	35.0 x 1.5 x 6000	PP0356M / PP3160351M
40	42.0 x 1.5 x 6000	PP0426M / PP3160421M
50	54.0 x 1.5 x 6000	PP0546M / PP3160541M
65	76.1 x 2.0 x 6000	PP0766M / PP3160761M
80	88.9 x 2.0 x 6000	PP0886M / PP3160881M
100	108.0 x 2.0 x 6000	PP1086M / PP3161081M

Features of Duopress Fitting System

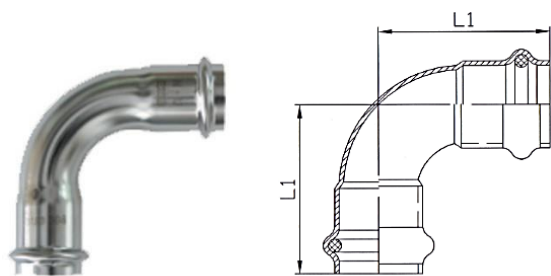


Duopress joint is the most secured jointing system. The joint, after the completion of pressing, both sides of the joint will be tightly sealed and secured in position. The joint will not be affected by the following conditions:

- A. The joint was bended not more than 30°.
- B. The joint would stand at a strong vibration of amplitude +/- 5mm continuity.

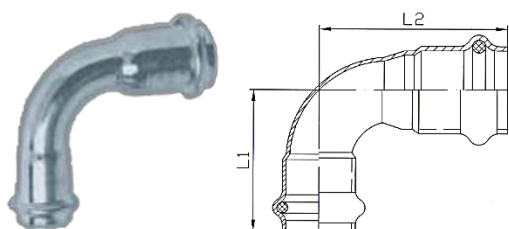
The joint was flattened not more than 70%.

90°E Elbow F x F (90°曲, 90°彎頭, 卡口 x 卡口)



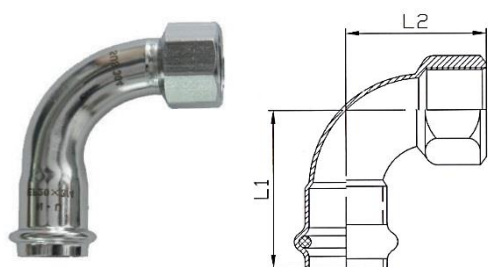
DN	DIA. (MM)	L1 (MM)
15	15.0	58
20	22.0	68
25	28.0	78
32	35.0	94
40	42.0	120
50	54.0	146
65	76.1	174
80	88.9	191
100	108.0	275

90°ER Reducing Elbow F x F (90°刁曲, 90°變徑彎頭, 卡口 x 卡口)



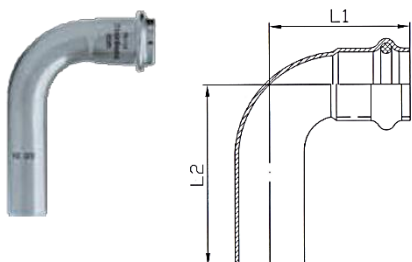
DN	DIA. (MM)	L1 (MM)	L2(MM)
20 x 15	22.0 x 15.0	58	64
25 x 15	28.0 x 15.0	58	75
25 x 20	28.0 x 22.0	68	76
32 x 20	35.0 x 22.0	68	92
32 x 25	35.0 x 28.0	78	90

90°EF Elbow F x Female BSP (90°內牙曲, 90°內絲彎頭, 卡口 x 內牙)



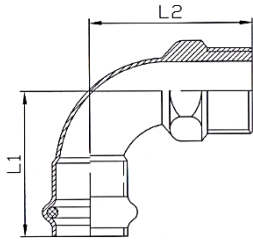
DN	DIA. (MM)	L1 (MM)	L2 (MM)
15 x 1/2"	15.0 x 1/2"	58	46
20 x 1/2"	22.0 x 1/2"	68	58
20 x 3/4"	22.0 x 3/4"	68	60
25 x 1"	28.0 x 1"	78	70
32 x 1(1/4)"	35.0 x 1(1/4)"	94	82
40 x 1(1/2)"	42.0 x 1(1/2)"	120	94
50 x 2"	54.0 x 2"	146	117

90°ED Elbow F x C (90°平頭鞭曲, 90°單向彎頭, 平頭 x 卡口)



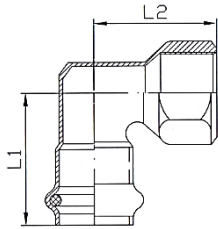
DN	DIA. (MM)	L1 (MM)	L2 (MM)
15	15.0	58	84
20	22.0	68	104
25	28.0	78	126
32	35.0	94	140
40	42.0	120	182
50	54.0	146	217
65	76.1	174	248
80	88.9	191	285
100	108.0	275	295

90°EM Elbow F x Male BSP (90°外牙曲, 90°外絲彎頭, 卡口 x 外牙)



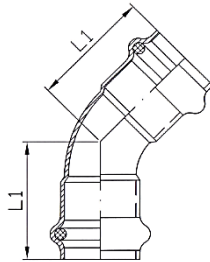
DN	DIA. (MM)	L1 (MM)	L2 (MM)
15 x 1/2"	15.0 x 1/2"	58	56
20 x 1/2"	22.0 x 1/2"	68	65
20 x 3/4"	22.0 x 3/4"	68	69
25 x 1"	28.0 x 1"	78	70
32 x 3/4"	35.0 x 3/4"	102	87
32 x 1(1/4)"	35.0 x 1(1/4)"	94	104
42 x 1(1/2)"	42.0 x 1(1/2)"	120	122
50 x 2"	54.0 x 2"	146	140

90°EFZ Short Angle Tap Connecting F x Female BSP (內絲短彎頭, 內牙 x 卡口)



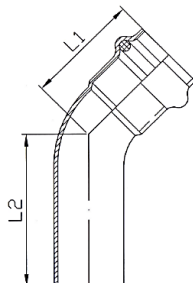
DN	DIA. (MM)	L1	L2
15 x 1/2"	15.0 x 1/2"	41	28.5
20 x 1/2"	22.0 x 1/2"	49	33
20 x 3/4"	22.0 x 3/4"	49	36
25 x 1/2"	28.0 x 1/2"	75	33
25 x 3/4"	28.0 x 3/4"	79	34
25 x 1"	28.0 x 1"	80	40

45°E Elbow F x F (45°曲, 45°彎頭卡口 x 卡口)



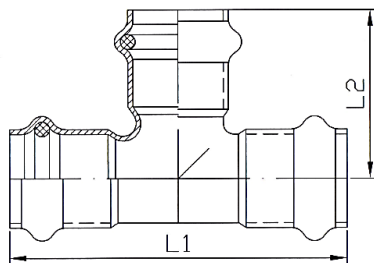
DN	DIA. (MM)	L1 (MM)
15	15.0	40
20	22.0	47
25	28.0	59
32	35.0	67
40	42.0	80
50	54.0	100
65	76.1	120
80	88.9	127
100	108.0	176

45°ED Elbow F x C (45°平頭鞭曲, 45°單向彎頭, 平頭 x 卡口)



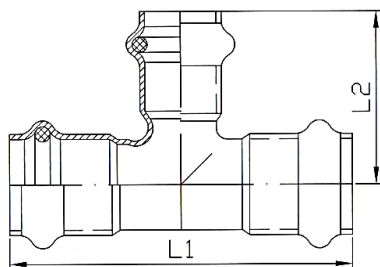
DN	DIA. (MM)	L1 (MM)	L2 (MM)
15	15.0	40	70
20	22.0	47	85
25	28.0	59	100
32	35.0	67	120
40	42.0	80	150
50	54.0	100	167
65	76.1	120	197
80	88.9	127	214
100	108.0	176	220

3T Equal Tee F x F x F (三叉, 等徑三通, 卡口 x 卡口 x 卡口)



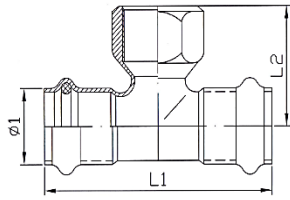
DN	DIA. (MM)	L1 (MM)	L2 (MM)
15	15.0	80	41
20	22.0	96	48
25	28.0	118	60
32	35.0	143	73
40	42.0	174	87
50	54.0	206	106
65	76.1	237	125
80	88.9	263	152
100	108.0	352	180

3TR Reducing Tee F x F x F (刁叉, 變徑三通, 卡口 x 卡口 x 卡口)



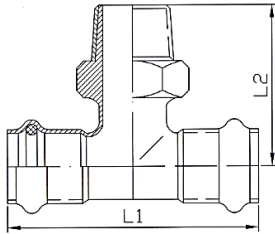
DN	DIA. (MM)	L1 (MM)	L2(MM)
20 x 15 x 20	22.0 x 15.0 x 22.0	96	48
25 x 15 x 25	28.0 x 15.0 x 28.0	118	52
25 x 20 x 25	28.0 x 22.0 x 28.0	118	55
32x 15 x 32	35.0 x 15.0 x 35.0	143	57
32 x 20 x 32	35.0 x 22.0 x 35.0	143	58
32 x 25 x 32	35.0 x 28.0 x 35.0	143	65
40 x 15 x 40	42.0 x 15.0 x 42.0	174	60
40 x 20 x 40	42.0 x 22.0 x 42.0	174	61
40 x 25 x 40	42.0 x 28.0 x 42.0	174	68
40 x 32 x 40	42.0 x 35.0 x 42.0	174	78
50 x 15 x 50	54.0 x 15.0 x 54.0	206	66
50 x 20 x 50	54.0 x 22.0 x 54.0	206	67
50 x 25 x 50	54.0 x 28.0 x 54.0	206	74
50 x 32 x 50	54.0 x 35.0 x 54.0	206	84
50 x 40 x 50	54.0 x 42.0 x 54.0	206	93
65 x 40 x 65	76.1 x 42.0 x 76.1	237	112
65 x 50 x 65	76.1 x 54.0 x 76.1	237	117
80 x 50 x 80	88.9 x 54.0 x 88.9	263	126
80 x 65 x 80	88.9 x 76.1 x 88.9	263	131
100 x 50 100	108.0 x 54.0x108.0	352	134.5
100 x 65 100	108.0 x 76.1x108.0	352	143
100 x 80 x100	108.0 x 88.9x108.0	352	147

3TF Equal Tee F x Female BSP (中內牙叉, 內絲三通, 卡口 x 內牙 x 卡口)



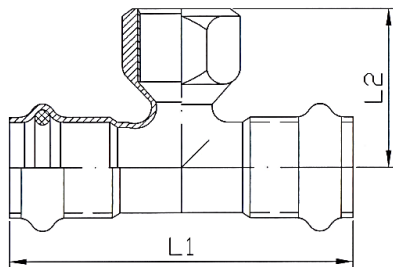
DN	DIA. (MM)	L1 (MM)	L2 (MM)
15 x 1/2"	15.0 x 1/2"	80	30
20 x 3/4"	22.0 x 3/4"	96	37
25 x 1"	28.0 x 1"	118	45
32 x 1(1/4)"	35.0 x 1(1/4)"	143	51
40 x 1(1/2)"	42.0 x 1(1/2)"	174	56
50 x 2"	54.0 x 2"	206	67

3TM Equal Tee F x Male BSP (中外牙叉, 外絲三通, 卡口 x 外牙 x 卡口)



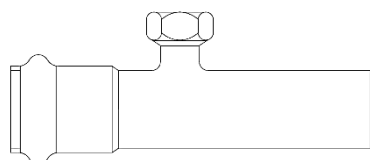
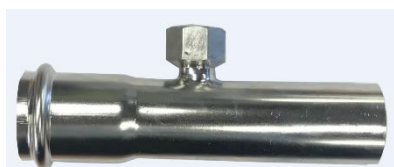
DN	DIA. (MM)	L1 (MM)	L2 (MM)
15 x 1/2"	15.0 x 1/2"	80	38
20 x 3/4"	22.0 x 3/4"	96	45
25 x 1"	28.0 x 1"	117	51.5
32 x 1(1/4)"	35.0 x 1(1/4)"	143	70
40 x 1(1/2)"	42.0 x 1(1/2)"	174	78
50 x 2"	54.0 x 2"	206	92

3TRF Reducing Tee F x Female BSP (中內牙刁叉, 內絲變徑三通, 卡口 x 內牙 x 卡口)



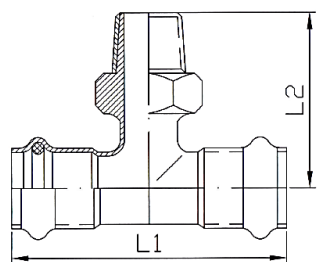
DN	DIA. (MM)	L1 (MM)	L2 (MM)
20 x 1/2"	22.0 x 1/2" x 22.0	96	33
25 x 1/2"	28.0 x 1/2" x 28.0	118	36
25 x 3/4"	28.0 x 3/4" x 28.0	118	39
32 x 1/2"	35.0 x 1/2" x 35.0	143	40
32 x 3/4"	35.0 x 3/4" x 35.0	143	43
32 x 1"	35.0 x 1" x 35.0	143	47
40 x 1/2"	42.0 x 1/2" x 42.0	174	44.5
40 x 3/4"	42.0 x 3/4" x 42.0	174	47
40 x 1"	42.0 x 1" x 42.0	174	51
40 x 1(1/4)"	42.0 x 1(1/4)" x 42.0	174	56
50 x 1/2"	54.0 x 1/2" x 54.0	206	50
50 x 3/4"	54.0 x 3/4" x 54.0	206	53
50 x 1"	54.0 x 1" x 54.0	206	57
50 x 1(1/4)"	54.0 x 1(1/4)" x 54.0	206	62
50 x 1(1/2)"	54.0 x 1(1/2)" x 54.0	206	62

3TRFP Reducing Tee F x Female BSP (中內牙平管刁叉, 內絲平管變徑三通, 卡口 x 內牙 x 平口)



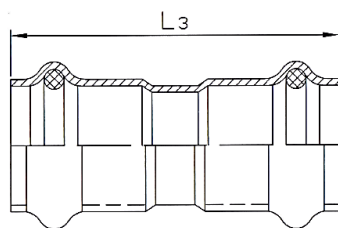
DN	DIA. (MM)	L1 (MM)	L2 (MM)
40 x 3/4"	42.0 x 3/4" x 42.0	174	47
40 x 1"	42.0 x 1" x 42.0	174	51
50 x 3/4"	54.0 x 3/4" x 54.0	206	53
50 x 1"	54.0 x 1" x 54.0	206	57

3TRM Reducing Tee F x Male BSP (中外牙刁叉, 外絲三通, 卡口 x 外牙 x 卡口)



DN	DIA. (MM)	L1 (MM)	L2 (MM)
20 x 1/2"	22.0 x 1/2" x 22.0	96	42
25 x 1/2"	28.0 x 1/2" x 28.0	118	45
25 x 3/4"	28.0 x 3/4" x 28.0	118	49
32 x 1/2"	35.0 x 1/2" x 35.0	143	49
32 x 3/4"	35.0 x 3/4" x 35.0	143	52
32 x 1"	35.0 x 1" x 35.0	143	55
40 x 1/2"	42.0 x 1/2" x 42.0	174	53
40 x 3/4"	42.0 x 3/4" x 42.0	174	56
40 x 1"	42.0 x 1" x 42.0	174	59
40 x 1(1/4)"	42.0 x 1(1/4)" x 42.0	174	68
50 x 1/2"	54.0 x 1/2" x 54.0	206	58
50 x 3/4"	54.0 x 3/4" x 54.0	206	61
50 x 1"	54.0 x 1" x 54.0	206	64
50 x 1(1/4)"	54.0 x 1(1/4)" x 54.0	206	73
50 x 1(1/2)"	54.0 x 1(1/2)" x 54.0	206	75

S Straight Coupling F x F (梳杰, 等徑直接, 卡口 x 卡口)

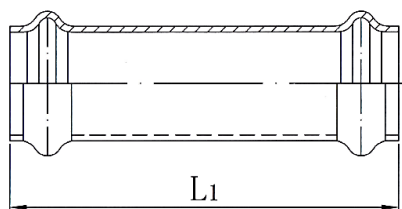


DN	DIA. (MM)	L3 (MM)
15	15.0	66
20	22.0	74
25	28.0	90
32	35.0	108
40	42.0	124
50	54.0	150
65	76.1	158
80	88.9	165
100	108.0	240



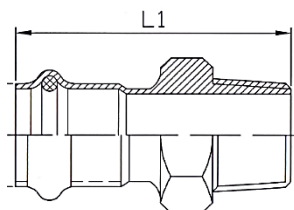
Stainless Steel Pipes (EN10312-II) & Double Press-Fittings

SK Straight Coupling F x F (通關梳杰, 卡口 x 卡口)

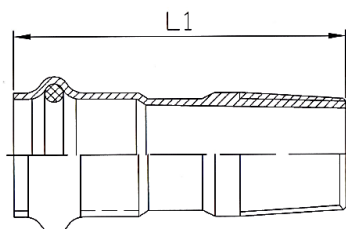


DN	DIA. (MM)	L1 (MM)
15	15.0	80
20	22.0	96
25	28.0	118
32	35.0	143
40	42.0	174
50	54.0	206
65	76.1	237
80	88.9	263
100	108.0	352

SM Coupling F x Male BSP (外牙咀, 外絲直接, 外牙 x 卡口)

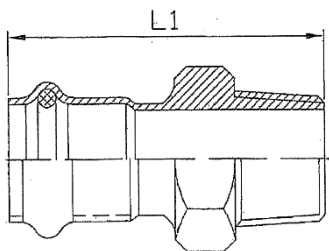


DN	DIA. (MM)	L1 (MM)
15 x 1/2"	15.0 x 1/2"	63
20 x 3/4"	22.0 x 3/4"	70
25 x 1"	28.0 x 1"	80



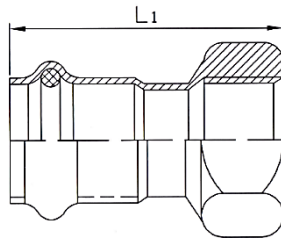
DN	DIA. (MM)	L1 (MM)
32 x 1(1/4)"	35.0 x 1(1/4)"	112
40 x 1(1/2)"	42.0 x 1(1/2)"	125
50 x 2"	54.0 x 2"	140

SRM Reducing Coupling F x Male BSP (外牙刁士, 外絲變徑直接, 外牙 x 卡口)



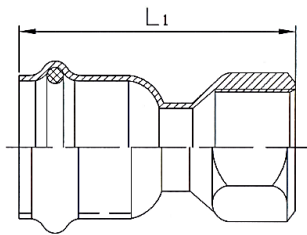
DN	DIA. (MM)	L1 (MM)
25 x 1/2"	28.0 x 1/2"	82
25 x 3/4"	28.0 x 3/4"	78
32 x 3/4"	35.0 x 3/4"	90
32 x 1"	35.0 x 1"	87
40 x 1"	42.0 x 1"	107
40 x 1(1/4)"	42.0 x 1(1/4)"	106
50 x 1(1/4)"	54.0 x 1(1/4)"	114
50 x 1(1/2)"	54.0 x 1(1/2)"	116

SF Coupling F x Female BSP (內牙咀, 內絲直接, 內牙 x 卡口)



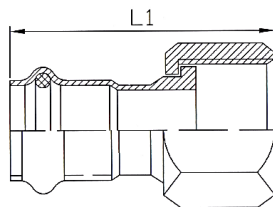
DN	DIA. (MM)	L1 (MM)
15 x 1/2"	15.0 x 1/2"	54
20 x 3/4"	22.0 x 3/4"	60
25 x 1"	28.0 x 1"	71
32 x 1(1/4)"	35.0 x 1(1/4)"	86
40 x 1(1/2)"	42.0 x 1(1/2)"	95
50 x 2"	54.0 x 2"	110

SRF Reducing Coupling F x Female BSP (內牙刁士, 內絲變徑直接, 內牙 x 卡口)



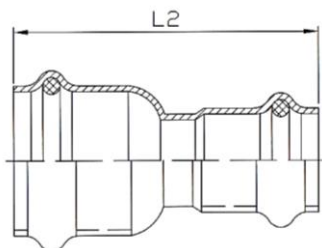
DN	DIA. (MM)	L1 (MM)
25 x 1/2"	28.0 x 1/2"	72
25 x 3/4"	28.0 x 3/4"	70
32 x 3/4"	35.0 x 3/4"	78
32 x 1"	35.0 x 1"	80
40 x 1"	42.0 x 1"	98
40 x 1 (1/4)"	42.0 x 1(1/4)"	98
50 x 1 (1/4)"	54.0 x 1(1/4)"	110
50 x 1 (1/2)"	15.0 x 1/2"	115

HF Straight Adapter (內牙活接, 移動內絲活接, 內牙 x 卡口)



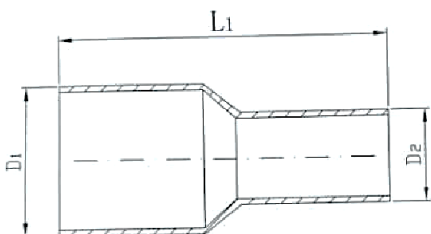
DN	DIA. (MM)	L1 (MM)
15 x 1/2"	15.0 x 1/2"	58
20 x 3/4"	22.0 x 3/4"	62
25 x 1"	28.0 x 1"	80
32 x 1(1/4)"	35.0 x 1(1/4)"	94
40 x 1(1/2)"	42.0 x 1(1/2)"	102
50 x 2"	54.0 x 2"	129

SR Reducer F x F (卡口刁士, 變徑直接, 卡口 x 卡口)



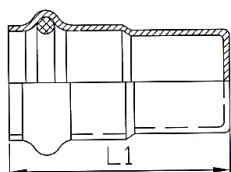
DN	DIA. (MM)	L2 (MM)
20 x 15	22.0 x 15.0	75
25 x 15	28.0 x 15.0	85
25 x 20	28.0 x 22.0	83
32 x 20	35.0 x 22.0	94
32 x 25	35.0 x 28.0	96
40 x 25	42.0 x 28.0	116
40 x 32	42.0 x 35.0	120
50 x 32	54.0 x 35.0	145
50 x 40	54.0 x 42.0	139
65 x 50	76.1 x 54.0	174
80 x 65	88.9 x 76.1	202
100 x 65	108.0 x 76.1	244
100 x 80	108.0 x 88.9	240

SPR Reducer C x C (平頭刁士, 平管變徑直接, 平頭 x 平頭)



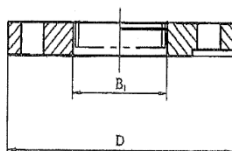
DN	DIA. (MM)	L2 (MM)
20 x 15	22.0 x 15.0	107
25 x 15	28.0 x 15.0	118
25 x 20	28.0 x 22.0	112
32 x 15	35.0 x 15.0	122
32 x 20	35.0 x 22.0	123
32 x 25	35.0 x 28.0	122
40 x 15	42.0 x 15.0	133
40 x 20	42.0 x 22.0	133
40 x 25	42.0 x 28.0	135
40 x 32	42.0 x 35.0	133
50 x 15	54.0 x 15.0	154
50 x 20	54.0 x 22.0	154
50 x 25	54.0 x 28.0	154
50 x 32	54.0 x 35.0	155
50 x 40	54.0 x 42.0	154

C Cap End (喉凸, 堵帽, 尾凸, 卡口)



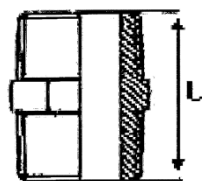
DN	DIA. (MM)	L1 (MM)
15	15.0	33
20	22.0	37
25	28.0	45
32	35.0	56
40	42.0	68
50	54.0	75
65	76.1	85
80	88.9	88
100	108.0	122

L Flange (法蘭片)



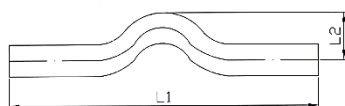
DN	DIA. (MM)	B1 (MM)	D(MM)	Thickness (MM)
50	54.0	59	165	20
65	76.1	78	185	20
80	88.9	91	200	20
100	108	110	220	22

SD Nipple (力古, 六角對絲)



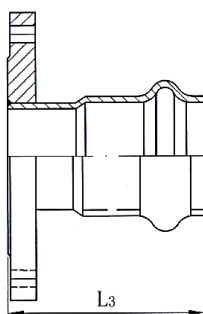
DN	DIA. (Inch)	L (MM)
15	1/2" x 1/2"	40
20	3/4" x 3/4"	43
25	1" x 1"	50
32	1(1/4)" x 1(1/4)"	58
40	1(1/2)" x 1(1/2)"	59
50	2" x 2"	65

Q Pipe Bridge (平口彎喉, 平管橋)



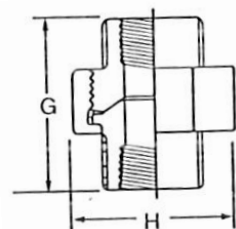
DN	DIA. (MM)	L1 (MM)	L2 (MM)
15	15.0	220	30
20	22.0	250	39.5
25	28.0	350	51

SL Flange (法蘭活接)



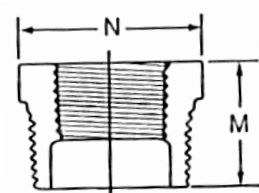
DN	DIA. (MM)	L3 (MM)
32	35.0	92
40	42.0	102
50	54.0	114
65	76.1	121
80	88.9	138
100	108.0	178

HFS(雙內絲活接, 要潤, Coupling)



DN	DIA. (Inch)	G (MM)	H (MM)
15	1/2"	39.7	38.6
20	3/4"	42.6	46.9
25	1"	48.6	57.7
32	1(1/4)"	53.9	66.7
40	1(1/2)"	58.8	76
50	2"	63.2	89.6

FM Bushing (杯臣, 補芯)



DN	DIA. (Inch)	M (MM)	N (MM)
20	3/4" x 1/2"	24.6	30.5
25	1" x 1/2"	29.2	37.6
25	1" x 3/4"	29.2	37.6
32	1(1/4)" x 1"	30	45.4
40	1(1/2)" x 1(1/4)"	32	52.4
50	2" x 1(1/2)"	36	62.3

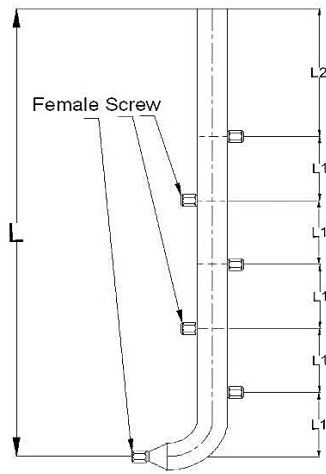


Stainless Steel Pipes (EN10312-II) & Double Press-Fittings

Separator (分水器)



DN	DIA. (MM)	L	L1	L2
40 x 3/4"	42.0 x 3/4"	700	100	200



N-U Stainless Steel Pipes (EN10312-II) & Double Press-Fittings

Electro-Hydraulic Pressing Tools – DN 30 ~ 100

1. Electro-Hydraulic Pressing Tool



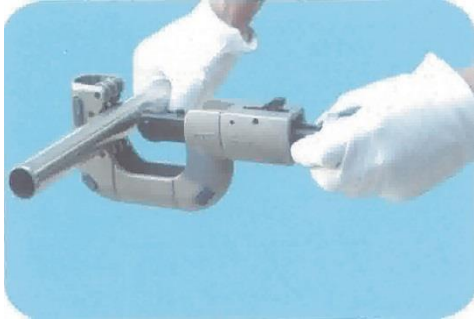
Electric Pressing Tools – DN 15 ~ 25



Press Jaws



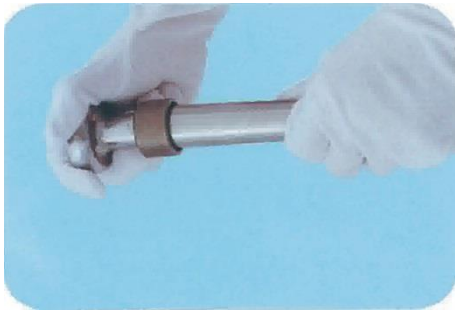
INSTALLATION



1. Use a sawing machine or a stainless steel pipe cutter to cut to required lengths at right angles.



5. Insert the pipe into corresponding press-fitting and check the inserted distance marker.



2. Use a burr remover to remove the burr inside and outside on both ends of pipe thoroughly.



6. Fit the matched size press jaw onto the press tool and secure with the locking pin, then open the jaw, position at right angle towards the press-fitting and press.



3. Mark and add the inserted distance marker on stainless steel pipe



7. Use a special-design measuring tool to verify the correctness of the pressed joint.



4. Inspect the seal ring inside the press-fitting in a correct position.



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N.U DOUBLE-PRESS EXTRUSION STAINLESS STEEL

INSTALLATION



Step 1: CUTTING (PIPE)

- Calculate pipe size



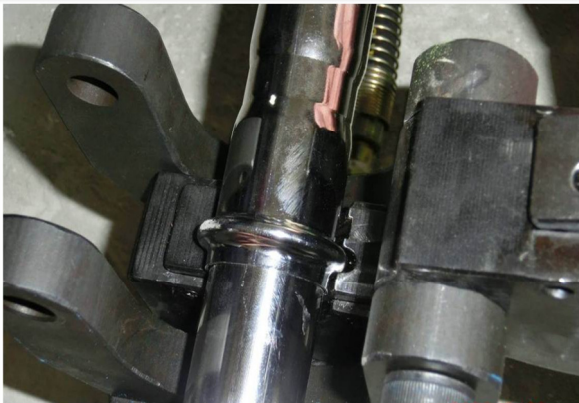
Step 2: DEBURR (PIPE)

- Deburring the S/S pipe end



Step 3: MARKING

- Insert the N.U pipe into the N.U fitting
- Mark the insertion depth



Step 4: DOUBLE-PRESS EXTRUSION

- Place the N.U fitting on the press jaw



Step 5: DOUBLE-PRESS EXTRUSION .

- Press the start button



Step 6: VIEW CHECK



Stainless Steel Pipes (Grooved End Collar Type)



DN	O.D.	Thickness(mm)
125	133	2.6
150	159	2.9
200	219.1	2.9
250	273	4
300	323.9	5

Performing Standard: EN10217 Grooved End pipe & fittings.

Material standard: EN10088 Grade 304 / 316L stainless steel.

O-ring Material: EPDM or Silicone.

Grooved end collar type connection are featured as Simply, Quick, Economical and Reliable for Drainage Design. Before installation, trench shall be processed at steel pipe edge with channeling machine. Clamp collar with O-ring shall be in place into the trench, and tightened the bolt on collar.

■ Specification

Collar	90° Elbow	45° Elbow	Tee	Adapter flange	<p>Sketch map of the trench connection</p>

Reducer	Reducing tee

DN	O.D.
150 x 125	159 x 133
200 x 125	219.1 x 133
200 x 150	219.1 x 159
250 x 125	273 x 133
250 x 150	273 x 159
250 x 200	273 x 219.1
300 x 125	323.9 x 133
300 x 150	323.9 x 159
300 x 200	323.9 x 219.1
300 x 250	323.9 x 273

Collar and hydraulic reducer	Collar and hydraulic reducing tee

DN	O.D.
125 x 65	133 x 76.1
125 x 80	133 x 88.9
125 x 100	133 x 108
150 x 65	159 x 76.1
150 x 80	159 x 88.9
150 x 100	159 x 108
200 x 80	219.1 x 88.9
200 x 100	219.1 x 108
250 x 100	273 x 108
300 x 100	323.9 x 108

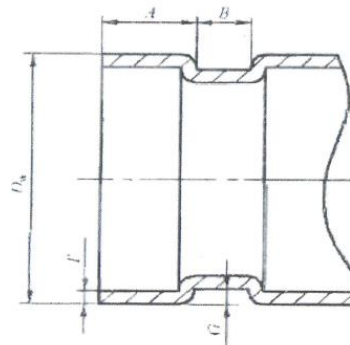


Fig.1 - Grooved End Cross Section

Table 1 - Grooved End Pipes Basic Dimensions

DN	Dimensions (mm)				
	O.D.	Trench depth (G)	Thickness (T)	Thickness (A)	Thickness (B)
125	133	3	2.5	16	9
150	159	3	2.5	16	9
200	219.1	3	3	19	12.5
250	273	3	4	19	12.5
300	323.9	3.5	4	19	12.5

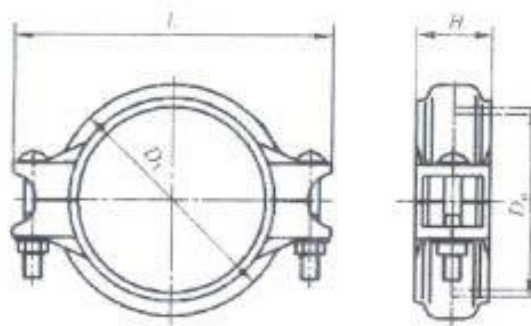


Fig.2 – Coupling Structural Diagrams

Table 2 - Coupling Basic Dimensions

DN	O.D.	Elongation E <=(mm)	Turning Angle (°)	Bolt Dimension (M x mm)	Thickness B (mm)		
					D	L	H
125	133	6	1.4	M12 x 80	154	218	51
150	159	6	1.2	M16 x 95	190	260	51
200	219.1	8	0.8	M20 x 115	252	345	60
250	273	8	0.7	M20 x 125	306	354	62
300	323.9	8	0.6	M20 x 105	362	407	62

N·U Stainless Steel Pipes (Welding)



DN	O.D.	Thickness(mm)	
		A	B
125	133	2	2.5
150	159	2.5	3
200	219	2.5	3
250	273	3	4
300	323	4	5

Performing Standard: JIS G3448 butt-welding seamless steel pipe. Traditional connection with high welding is fit for DN125 or above.

During the welding process, beveling the edge by manually or automatically in circle pattern, argon protection is required during the process.

Applicable on both surface mounted and concealed installation.

■ Specification

90° Elbow	45° Elbow	Tee	Flange	DN	○. D
				125	133.0
				150	159.0
				200	219.0
				250	273.0
				300	323.0
Reducer	Reducing tee	DN	○. D		
		150×125	159×133		
		200×125	219×133		
		200×150	219×159		
		250×125	273×133		
		250×150	273×159		
		250×200	273×219		
		300×125	323×133		
		300×150	323×159		
		300×200	323×219		
		300×250	323×273		
Welding and hydraulic reducer	Welding and hydraulic reducing tee	DN	○. D		
		125×65	133×76.2		
		125×80	133×89.1		
		125×100	133×101.6		
		150×65	159×76.2		
		150×80	159×89.1		
		150×100	159×101.6		
		200×80	219×89.1		
		200×100	219×101.6		
		250×100	273×101.6		
		300×100	323×101.6		



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N.U TRENCH TYPE STAINLESS STEEL

INSTALLATION



Step 1:

Check pipe ends and
Lubricate gasket

- Outer surface of pipe groove must be free from indentations and roll marks
- Apply lubricant to the gasket lip and exterior



Step 2:

Position gasket

- Roll the gasket into position with an turned inside out status (Lips facing outward)



Step 3:

Join pipe ends

- Slide and flip inside out the gasket into position by centering it between the grooves on each pipe



Step 4:

Install housings over the gasket

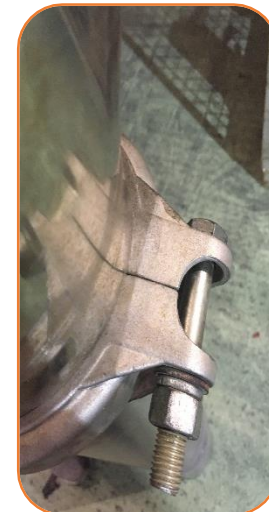
- Housings' keys engage the grooves properly on both pipes



Step 5:

Install Bolts / Nuts

- Insert the bolts and thread the nuts finger-tight / loosely tight onto the bolts by using spanners



Step 6:

Tighten nuts

- Tighten the nuts evenly by alternating sides
- Until metal-to-metal contact occurs at the bolt pads

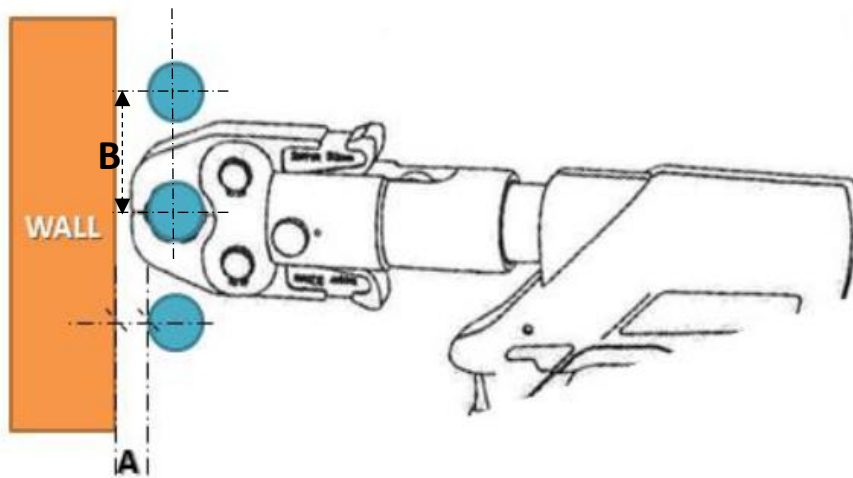
N.U Installation Recommendation



N·U STAINLESS STEEL
DUOPRESS FITTING SYSTEM

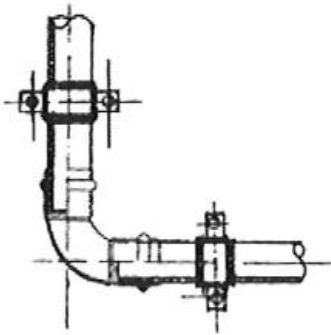
1. The Spacing for N.U Double Press Extrusion Pipes and Fittings (Press-Type)

Pressing Machines Models: N.U press jaws, NovoPress

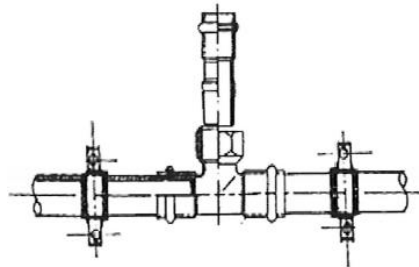


DN (mm)	A (mm)	B (mm)
15	15	40-42
20	15	48-50
25	20	48-50
30	20	80-85
40	25	80-85
50	30	80-85
65	35	100-110
80	35	100-110
100	40	100-110

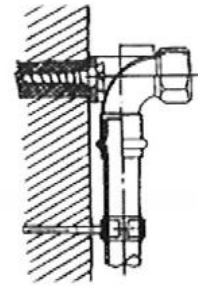
2. Bracket Clearance for N.U Double Press Extrusion Pipes (Press-Type)



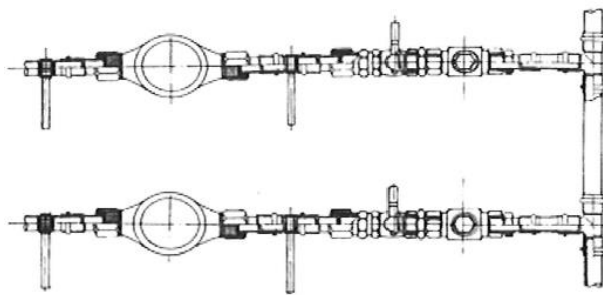
Bracket position for Elbow



Bracket position for Tee



Bracket position for Short Elbow



Bracket position for Water Meter

DN (mm)	General Bracket Clearance (mm)
15 – 20	800 – 1200
25 – 30	1200 – 1800
40 – 65	1500 – 2000
80 – 100	2000 – 3000
125 – 150	3000 – 4000



水務署
Water Supplies Department

總部 Headquarters

香港灣仔告士打道七號入境事務大樓 48 樓

48/F, Immigration Tower, 7 Gloucester Road, Wan Chai, Hong Kong

本署檔號 : (4) in WSD 3321/18 Pt.1 T/J(564)
Our ref.
來函檔號 :
Your ref.

電話 :
Tel.
傳真 : 2824 0578
Fax.

3 July 2018

Dextra Pacific Plumbing Limited
Suite 1901, Tung Wai Comm. Bldg.,
109 Gloucester Road,
Hong Kong

(Attn.: Mr Peter TAM)

Dear Sir,



**Approval of "N.U" Stainless Steel Fittings
(General Acceptance No. C20180374)**

Your letters ref. DPPL/PT/053/2018 and DPPL/PT/057/2018 dated 30 May 2018 and 6 June 2018 respectively refer.

Having considered the test report ref. BC-SUMMARY-2018-66 issued on 28 May 2018 by Castco Testing Centre Limited, this Authority accepts that the fittings described below comply with, and their use when correctly installed does not contravene, the Waterworks Ordinance and Regulations.

Name of Manufacturer: Shenzhen Artway Piping Company Limited

Country of Origin: China

Brand: N.U

Details of Fittings: Stainless steel fittings with press ends connection

Description	Model	Size
90° Elbow	90°E	15, 20, 25, 32, 40, 50, 65, 80, 100 (mm)
90° Reducing Elbow	90°ER	20x15, 25x15, 25x20, 32x20, 32x25 (mm)
90° Female Elbow	90°EF	15x½", 20x½", 20x¾", 25x1", 32x1¼", 42x1½", 50x2" (mm x inch)
90° Elbow	90°ED	15, 20, 25, 32, 40, 50, 65, 80, 100 (mm)

Description	Model	Size
90° Male Elbow	90°EM	15x½", 20x½", 20x¾", 25x1", 32x¾", 32x1¼", 42x1½", 50x2" (mm x inch)
45° Elbow	45°E	15, 20, 25, 32, 40, 50, 65, 80, 100 (mm)
45° Elbow	45°ED	15, 20, 25, 32, 40, 50, 65, 80, 100 (mm)
Equal Tee	3T	15, 20, 25, 32, 40, 50, 65, 80, 100 (mm)
Reducing Tee	3TR	20x15x20, 25x15x25, 25x20x25, 32x15x32, 32x20x32, 32x25x32, 40x15x40, 40x20x40, 40x25x40, 40x32x40, 50x15x50, 50x20x50, 50x25x50, 50x32x50, 50x40x50, 65x40x65, 65x50x65, 80x50x80, 80x65x80, 100x50x100, 100x65x100, 100x80x100 (mm)
Female Equal Tee	3TF	15x½", 20x¾", 25x1", 32x1¼", 42x1½", 50x2" (mm x inch)
Male Equal Tee	3TM	15x½", 20x¾", 25x1", 32x1¼", 42x1½", 50x2" (mm x inch)
Female Reducing Tee	3TRF	20x½", 25x½", 25x¾", 32x½", 32x¾", 32x1", 40x½", 40x¾", 40x1", 40x1¼", 50x½", 50x¾", 50x1", 50x1¼", 50x1½" (mm x inch)
Male Reducing Tee	3TRM	20x½", 25x½", 25x¾", 32x½", 32x¾", 32x1", 40x½", 40x¾", 40x1", 40x1¼", 50x½", 50x¾", 50x1", 50x1¼", 50x1½" (mm x inch)
Straight Coupling	S	15, 20, 25, 32, 40, 50, 65, 80, 100 (mm)
Straight Coupling	SK	15, 20, 25, 32, 40, 50, 65, 80, 100 (mm)
Male Coupling	SM	15x½", 20x¾", 25x1", 32x1¼", 42x1½", 50x2" (mm x inch)
Male Reducing Coupling	SRM	25x½", 25x¾", 32x¾", 32x1", 40x1", 40x1¼", 50x1¼", 50x1½" (mm x inch)
Female Coupling	SF	15x½", 20x¾", 25x1", 32x1¼", 42x1½", 50x2" (mm x inch)
Female Reducing Coupling	SRF	25x½", 25x¾", 32x¾", 32x1", 40x1", 40x1¼", 50x1¼", 50x1½" (mm x inch)
Reducer	SR	20x15, 25x15, 25x20, 32x20, 32x25, 40x25, 40x32, 50x32, 50x40, 65x50, 80x65, 100x65, 100x80 (mm)
Reducer	SPR	20x15, 25x15, 25x20, 32x15, 32x20, 32x25, 40x15, 40x20, 40x25, 40x32, 50x15, 50x20, 50x25, 50x32, 50x40 (mm)
Straight Coupler	HF	15x½", 20x¾", 25x1", 32x1¼", 42x1½", 50x2" (mm x inch)

Body Markings:

N • U SUS316L EN10312 model size

Expiry Date:

7 May 2023

This Authority hereby permits the use of the above fittings in fresh water plumbing systems subject to full adherence to Waterworks installation requirements.

A condition of this acceptance is that the fittings to be installed should be replicas of the samples as certified by the testing agent mentioned above and without modifications. This acceptance may be withdrawn at any time if the standard of the fittings installed fails to meet that of the approved samples or if the fittings are found to be unsuitable for use in fresh water plumbing systems.

For the use of the fittings in any project, the General Acceptance Number of this letter must be quoted as a means of identification of acceptance of the fittings by this Authority.

Should you have any enquiries, please contact our Engineer Mr. Terry KUNG at tel. no. 3583 4086.

Yours faithfully,



(CHAN Chung-kun)

for Director of Water Supplies

Encl.

c.c. WSD 3321/1/82] - without catalogue
 ME/MC] - with soft copy only



水務署
Water Supplies Department

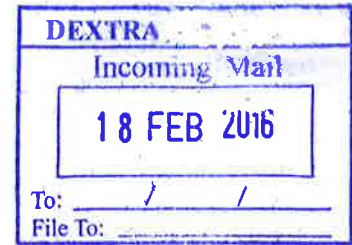
香港灣仔告士打道七號入境事務大樓
Immigration Tower, 7 Gloucester Road, Hong Kong

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檔號
Reference (6) in WSD 3321/15 Pt.1 T/J(425)



15 February 2016

Dextra Pacific Plumbing Limited,
Suite 1901, Tung Wai Comm. Bldg.,
109 Gloucester Road,
Hong Kong

(Attn.: Mr Joey NG)

Dear Sir,

Approval of "N.U" Stainless Steel Double Press Fittings

Your letters ref. DPPL/FT/059/2015 dated 12 October 2015, DPPL/FT/065/2015 dated 18 November and DPPL/KeL/003/2016 dated 4 February 2016 refer.

It is noted that the fittings described below have been accepted by the United Kingdom Water Regulations Advisory Scheme (WRAS) to have complied with the requirements of the United Kingdom Water Supply (Water Fittings) Regulations / Scottish Water Byelaws when correctly installed.

Name of Manufacturer: Shenzhen Artway Piping Company Limited

Country of Origin: China

Brand: N.U

Details of Fitting: 'N.U Duopress' range of stainless steel (304) press fittings for use with stainless steel (304) pipe. Maximum working pressure 16.0 bar. Maximum operating temperature 85°C. (Black coloured, compression moulded EPDM rubber included and under WRAS approval no. 1405571)

Model:

N.U Duopress

Description & Size:

List of stainless steel fittings

Description	Size
90E Elbow F x F	15, 20, 25, 32, 40, 50, 65, 80, 100 (mm)
90EF Reducing Elbow F x F	20x15, 25x15, 25x20, 32x20, 32x25 (mm x mm)
90EF Elbow F x Female BSP	15x1/2, 15x3/4, 20x3/4, 20x1, 25x1, 25x1 1/4, 32x1 1/4, 40x1 1/2, 50x2 (mm x inch)
90EF Tap Connecting Elbow F x Female BSP	15x1/2, 20x1/2, 20x3/4, 25x1/2, 25x3/4, 25x1 (mm x inch)
90ED Elbow F x C	15, 20, 25, 32, 40, 50, 65, 80, 100 (mm)
90EM Elbow F x Male BSP	15x1/2, 15x3/4, 20x3/4, 20x1, 25x1, 32x3/4, 32x1 1/4, 40x1 1/2, 50x2 (mm x inch)
90EP Elbow C x C	15, 20, 25, 32, 40, 50 (mm)
45E Elbow F x F	15, 20, 25, 32, 40, 50, 65, 80, 100 (mm)
45ED Elbow F x C	15, 20, 25, 32, 40, 50, 65, 80, 100 (mm)
45EM Elbow F x Male BSP	15x1/2, 20x3/4, 25x1, 32x1 1/4, 40x1 1/2, 50x2 (mm x inch)
45EF Elbow F x Female BSP	15x1/2, 20x3/4, 25x1, 32x1 1/4, 40x1 1/2, 50x2 (mm x inch)
3T Equal Tee F x F x F	15, 20, 25, 32, 40, 50, 65, 80, 100 (mm)
3TR Reducing Tee F x F x F	20x15x20, 25x15x25, 25x20x25, 32x15x32, 32x20x32, 32x25x32, 40x15x40, 40x20x40, 40x25x40, 40x32x40, 50x15x50, 50x20x50, 50x25x50, 50x32x50, 50x40x50, 65x40x65, 65x50x65, 80x50x80, 80x65x80, 100x50x100, 100x65x100, 100x80x100 (mm x mm x mm)
3TF Equal Tee F x Female BSP	15x1/2, 20x3/4, 25x1, 32x1 1/4, 40x1 1/2, 50x2 (mm x inch)
3TM Equal Tee F x Male BSP	15x1/2, 20x3/4, 25x1, 32x1 1/4, 40x1 1/2, 50x2 (mm x inch)
3TRF Reducing Tee F x Female BSP	20x15, 25x15, 25x20, 32x15, 32x20, 32x25, 40x15, 40x20, 40x25, 40x32, 50x15, 50x20, 50x25, 50x32, 50x40 (mm x mm)
3TRM Reducing Tee F x Male BSP	20x15, 25x15, 25x20, 32x15, 32x20, 32x25, 40x15, 40x20, 40x25, 40x32, 50x15, 50x20, 50x25, 50x32, 50x40 (mm x mm)
3TPD Equal Tee C x F x C	15, 20, 25, 32, 40, 50 (mm)
3TRD Reducing Tee C x F x C	20x15, 25x15, 25x20, 32x15, 32x20, 32x25, 40x15, 40x20, 40x25, 40x32, 50x15, 50x20, 50x25, 50x32, 50x40 (mm x mm)
3TP Equal Tee C x C x C	15, 20, 25, 32, 40, 50 (mm)

3TRP Reducing Tee C x C x C	20x15, 25x15, 25x20, 32x15, 32x20, 32x25, 40x15, 40x20, 40x25, 40x32, 50x15, 50x20, 50x25, 50x32, 50x40 (mm x mm)
S Straight Coupling F x F	15, 20, 25, 32, 40, 50, 65, 80, 100 (mm)
SK Straight Coupling F x F	15, 20, 25, 32, 40, 50, 65, 80, 100 (mm)
SM Coupling F x Male BSP	15, 20, 25, 32, 40, 50 (mm)
SRM Reducing Coupling F x Male BSP	15x1/2, 25x1/2, 25x3/4, 32x3/4, 32x1, 40x1, 40x1 1/4, 50x1 1/4, 50x1 1/2 (mm x inch)
SF Coupling F x Female BSP	15, 20, 25, 32, 40, 50 (mm)
SRF Reducing Coupling F x Female BSP	15x1/2, 25x1/2, 25x3/4, 32x3/4, 32x1, 40x1, 40x1 1/4, 50x1 1/4, 50x1 1/2 (mm x inch)
HF Straight Adapter	15, 20, 25, 32, 40, 50 (mm)
90EFZ Short Angle Tap Connecting F x Female BSP	15x1/2, 20x1/2, 20x3/4, 25x1/2, 25x3/4, 25x1 (mm x inch)
SR Reducing F x F	20x15, 25x15, 25x20, 32x20, 32x25, 40x25, 40x32, 50x32, 50x40, 65x50, 80x65, 100x65, 100x80 (mm x mm)
SPR Reducer C x C	20x15, 25x15, 25x20, 32x15, 32x20, 32x25, 40x15, 40x20, 40x25, 40x32, 50x15, 50x20, 50x25, 50x32, 50x40 (mm x mm)
C Cap End	15, 20, 25, 32, 40, 50, 65, 80, 100 (mm)
L Flange	50, 65, 80, 100 (mm)
SD Nipple	15, 20, 25, 32, 40, 50 (mm)
Q Pipe Bridge	15, 20, 25 (mm)
SL Flange	32, 40, 50, 65, 80, 100 (mm)
Coupling	15, 20, 25, 32, 40, 50 (mm)
Male Thread Adaptor	15, 20, 25, 32, 40, 50 (mm)
Bushing	15, 20, 25, 32, 40, 50 (mm)
Adaptor	15, 20, 25, 32, 40, 50 (mm)
Separator	40x3/4 (mm x inch)

Marking: Size & N.U on body of fitting

WRAS Approval Number: 1405350

Installation Requirements: R001

Expiry Date: 31 May 2019

In view of the acceptance by WRAS, this Authority has no objection to the use of the said fittings in fresh water supply plumbing systems subject to full adherence to Waterworks installation requirements. In particular, you are required to draw your customers' attention to the following installation requirements –

“Installation shall comply with the ‘Installation Requirements & Notes’ of the WRAS’s approval letter concerned.”

A condition of this acceptance is that the fittings to be installed should be replicas of the samples certified by WRAS and no modification should be made to the fittings. This acceptance may be withdrawn at any time if the standard of the fittings installed fails to meet that of the approved samples or if the fittings are found to be unsuitable for use in fresh water supply plumbing systems.

For the use of the fittings in any project, the Acceptance Reference Number at the bottom of this letter must be quoted as a means of identification of acceptance of the fittings by this Authority.

Should you have any enquiries, please contact our Engineer Ms. K L FOK at tel. no. 2829 5657.

Yours faithfully,



(LAM Ching Man)
for Water Authority

c.c. WSD 3321/1/82] - without catalogue
E/CS(TS)1]



水務署

Water Supplies Department

香港灣仔告士打道七號入境事務大樓
Immigration Tower, 7 Gloucester Road, Hong Kong

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e-mail

wsdinfo@wsd.gov.hk

電話
Telephone

2829 4355

圖文傳真
Facsimile

2824 0578

檔號
Reference

(6) in WSD 3321/16 Pt.1 T/J(1188)

12 October 2016

Dextra Pacific Plumbing Limited
Suite 1901, Tung Wai Comm. Bldg.,
109 Gloucester Road,
Hong Kong

(Attn.: Mr Joey NG)

Dear Sir,

Approval of "N.U" Stainless Steel Pipes

Your letter ref. DPPL/KeL/029/2016 dated 9 August 2016 and subsequent submission received by this department on 26 September 2016 refer.

Having considered the test report ref. BC-SUMMARY-2016-35 issued on 19 July 2016 by Castco Testing Centre Ltd., this Authority accepts that the pipes described below comply with, and their use when correctly installed does not contravene, the Waterworks Ordinance and Regulations.

Name of Manufacturer: Shenzhen Artway Piping Company Limited

Country of Origin: China

Brand: N.U

Details of Pipe: Stainless steel pipe - series 2 (304)

Model & Size:
PP0156M - 15mm x 1.0mm
PP0226M - 22mm x 1.2mm
PP0286M - 28mm x 1.2mm
PP0356M - 35mm x 1.5mm
PP0426M - 42mm x 1.5mm
PP0546M - 54mm x 1.5mm

PP0766M - 76.1mm x 2.0mm

PP0886M - 88.9mm x 2.0mm

PP1086M - 108mm x 2.0mm

Body Markings: N.U DOUBLE PRESS SUS304
EN10312 SERIES II

Expiry Date: 13 July 2021

This Authority hereby permits the use of the above pipes in fresh water plumbing systems subject to full adherence to Waterworks installation requirements.

A condition of this acceptance is that the pipes to be installed shall be replicas of the samples as certified by the testing agent mentioned above and without modifications. This acceptance may be withdrawn at any time if the standard of the pipes installed fails to meet that of the approved samples or if the pipes are found to be unsuitable for use in fresh water plumbing systems.

For the use of the pipes in any project, the Acceptance Reference Number at the bottom of this letter must be quoted as a means of identification of acceptance of the pipes by this Authority.

Should you have any enquiries, please contact our Engineer Mr Terry KUNG at tel. no. 2294 2656.

Yours faithfully,



(CHAN Chung Kun)
for Water Authority

c.c. WSD 3321/1/82] - without catalogue
ME/MC] - with soft copy only



水務署
Water Supplies Department

香港灣仔告士打道七號入境事務大樓
Immigration Tower, 7 Gloucester Road, Hong Kong

電子郵件
e-mail wsdinfo@wsd.gov.hk

電話
Telephone 2829 4355

圖文傳真
Facsimile 2824 0578

檔號
Reference (4) in WSD 3321/16 Pt.1 T/J(1758)

14 February 2017

Dextra Pacific Plumbing Limited
Suite 1901, Tung Wai Comm. Bldg.,
109 Gloucester Road,
Hong Kong

(Attn.: Mr Ronnie CHAN)

Dear Sir,

Approval of "N.U" Stainless Steel Pipes

Your letter ref. DPPL/RC/001/2017 dated 18 January 2017 refers.

Having considered the test report ref. BC-SUMMARY-2016-104 issued on 11 January 2017 by Castco Testing Centre Ltd., this Authority accepts that the pipes described below comply with, and their use when correctly installed does not contravene, the Waterworks Ordinance and Regulations.

Name of Manufacturer: Shenzhen Artway Piping Company Limited

Country of Origin: China

Brand: N.U

Details of Pipe: Stainless steel pipe - series 2 (316L)

Model & Size:
PP3160151M - 15mm
PP3160221M - 22mm
PP3160281M - 28mm
PP3160351M - 35mm
PP3160421M - 42mm
PP3160541M - 54mm
PP3160761M - 76.1mm

PP3160881M - 88.9mm
PP3161081M - 108mm

Body Markings: N.U DOUBLE PRESS SUS316L
EN10312 SERIES II

Expiry Date: 8 December 2021

This Authority hereby permits the use of the above pipes in fresh water plumbing systems subject to full adherence to Waterworks installation requirements.

A condition of this acceptance is that the pipes to be installed shall be replicas of the samples as certified by the testing agent mentioned above and without modifications. This acceptance may be withdrawn at any time if the standard of the pipes installed fails to meet that of the approved samples or if the pipes are found to be unsuitable for use in fresh water plumbing systems.

For the use of the pipes in any project, the Acceptance Reference Number at the bottom of this letter must be quoted as a means of identification of acceptance of the pipes by this Authority.

Should you have any enquiries, please contact our Engineer Mr. Terry KUNG at tel. no. 2294 2656.

Yours faithfully,



(CHAN Chung Kun)
for Water Authority

c.c. WSD 3321/1/82] - without catalogue
ME/MC] - with soft copy only

WSD Voluntary GA* Scheme

GA* products in the GA Directory Search is shown below:

Search for Water Supply Pipes and Fittings with Valid General Acceptance

Simple Search	Advanced Search	Creation of Annex to WWO46 (For applicants' use only)	Information ▾	Mobile Application
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Simple Search

General Acceptance No.:

Category: * ▾

Type / Material: ▾

Brand: ▾

* Mandatory Input GA* Product Only

- If there is no GA* Remarks, ALL items under the GA Letter are GA* items. If there is GA* Remarks, items highlighted under GA* Remarks are GA* items.
- Colour for normal items and items with surveillance status "pass", "under compliance test" and "GA reinstated" items: default system colour
- Colour for "GA suspended" items: pale yellow
- Colour for "GA removed" items: light pink
- Colour for items with GA expired normally: grey

<http://ga.wsd.gov.hk/en>

SEARCH RESULT

	Brand	Manufacturer	Origin	Material Type	Type	Series	Size	GA Number	Expiry Date	Approval Date	QA Info. Submitted	GA*	GA* Remarks
Q	N.U	Shenzhen Artway Piping Company Limited	China	Stainless Steel	Stainless steel pipe - series 2 (316L)		Refer to letter	C20170073	8-Dec-21	14-Feb-17	★ ★	★	
Q	N.U	Shenzhen Artway Piping Company Limited	China	Stainless Steel	Stainless steel pipes - series 2 (304)		Refer to letter	C20160952	13-Jul-21	12-Oct-16	★ ★	★	

WRAS[®]

Water Regulations Advisory Scheme

This certifies that

SHENZHEN ARTWAY PIPING CO. LTD.

has had the undermentioned product examined, tested and found, when correctly installed, to comply with the requirements of the United Kingdom Water Supply (Water Fittings) Regulations/Scottish Water Byelaws.

N.U DUOPRESS RANGE OF STAINLESS STEEL PRESS FITTINGS

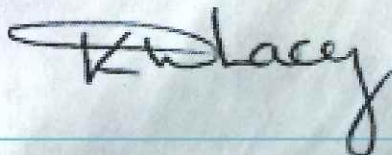
This certificate by itself is not evidence of a valid WRAS Approval. Confirmation of the current status of an approval must be obtained from the WRAS Directory (www.wras.co.uk/directory)

The product so mentioned will be listed in the Water Fittings and Materials Directory for a period until:

31 MAY 2019

1405350

Certificate No.



Chairman, Product Approval Group



Secretary

WRAS
APPROVED
PRODUCT

Ref. No: 0709327
Sample No: S070215 C

19 October 2007

Artway Piping (Shenzhen) Co Ltd
Building No 5
Long Bi Industrial Park
Jihua Road
Bantia
Longcang District
Shenzhen
China

Dear Sir

FITTINGS AND PIPE - COMPATIBLE SYSTEMS

1. Samples of the fittings or units described below have been subjected to relevant tests and examinations contained in the "Regulators' specifications", and after considering the test reports the Technical Committee's Test and Assessment Group (TAG) of the Water Regulations Advisory Scheme (WRAS or "the Scheme") finds that the fittings or units so described comply with, and their use when correctly installed, does not contravene the requirements of The Water Supply (Water Fittings) Regulations 1999, Water Byelaws 2004 Scotland, and Water Regulations Northern Ireland.

0709327

FITTINGS AND PIPE - COMPATIBLE SYSTEMS

1100

IRN R001
Tradename: N.U

`N.U` range of stainless steel pipes and compatible fittings and pipes for use with stainless steel tube/pipes to BS EN10312. The joints are achieved by means of a crimping tool, and the seal is made with an EPDM `O` ring. Maximum working pressure 16.0 bar, and the maximum working temperature is 85°C.

Size: 15 mm, 22 mm, 28 mm, 35 mm, 42 mm, 54 mm, 64 mm, 76.1 mm, 88.9 mm & 108 mm.

Product Designation: `N.U` Range of Stainless Steel Press Fittings.
A full list of the fittings approved is held on file by the Scheme.

Marking: Label on pipe showing press fitting BS EN number and size.
Label on fittings showing range name, press fitting and ASM & size.

Manufacturer: Artway Piping (Shenzhen) Co. Ltd.

2. Installation Requirements & Notes are set out on Page 3.
3. Fittings or units (and any non-metallic components contained within them) are re-assessed and, where necessary, retested every 5 years. You will be advised when your product is due for re-assessment. The extent of any retesting required for a product will be at the discretion of the Technical Manager.
4. **Acceptance for listing entitles you to identify your product with the Scheme's "WRAS" Mark. The use of the Mark will make the identification easier of the approved products by Water Undertakers.** Copies of the 'Mark' are available on request for the purposes of producing artwork.
5. Manufacturers or applicants may only quote in their sales literature, terms used in this letter when indicating the decision of the Group in respect to their fittings or units, namely that the **Test and Assessment Group of the Scheme finds that the use of these fittings or units, when correctly installed, will not contravene the requirements of The Water Supply (Water Fittings) Regulations 1999, Water Byelaws 2004 Scotland or Water Regulations Northern Ireland and that a reference to the fittings or units will be included in the Scheme's Water Fittings and Materials Directory:** this may be abbreviated to "Water Regulations Advisory Scheme - Approved Product" or "WRAS - Approved Product".
6. Since the incorrect installation of water fittings could result in contravention of the Regulations or Byelaws requirements, **the attention of your customers should be drawn to any Installation Requirements for Regulations or Byelaws compliances set out on Page 3.**
7. Would you please supply the Scheme with a copy of any of your company's literature which may or will make reference to the Scheme's decisions about the products and/or quotes any of the installation requirements.
8. A condition of listing is that **no modification to the fittings or units described above shall be made without first notifying the Scheme** and submitting to the Scheme details of the modification and, if so required, samples of the fittings or units as so modified for consideration by the Scheme's Test and Assessment Group. Failure to comply with this condition may result in the removal from the Water Fittings and Materials Directory of the entry relating to the fittings or units in question.
9. Your products are required to be replicas of the samples described above, and the right is reserved to carry out quality surveillance inspections of your production arrangements, reasonable written notice of which will be given.
10. Please note that the use of the items described in any particular area of supply is at the discretion of the local Water Undertaking.

11. Manufacturers or factors having appliances or units referred to in the Scheme's Directory which incorporate individually approved components and materials are asked to ensure that such components and materials continue to be approved and/or listed in the Directory, during the current period of approval of their appliance. This may require modifications to approved appliances to ensure their retention in the Scheme's Directory. The Scheme must be informed of any such modifications, (see paragraph 8).
12. You are reminded (see Form F1, paragraph 5.11) that **you must remove your samples** from the Fittings Testing Laboratory **within four weeks of the date of this letter**, after which date the right is reserved to dispose of the samples.
13. You are asked to verify the details of your product as set out in Paragraph 1 and advise us of any discrepancies.

Yours faithfully



Catherine Powell
Secretary, Test and Assessment Group

INSTALLATION REQUIREMENTS & NOTES

You are advised to draw customers' attention to the fact:

IRN R001

See text of entry for Installation Requirements or Notes.

TAG.0709327

Approval Number: 1405571
Test Report: MAT/LAB 483G



7th July 2015

Xiamen HongYangXin Rubber Tech Co., Ltd.
No. 6 Zhongcang Road,
Haicang Street,
Haicang District,
Xiamen,
China

Water Regulations Advisory Scheme Ltd.
Unit 13,
Willow Road,
Pen y Fan Industrial Estate,
Crumlin,
Gwent,
NP11 4EG

WATER REGULATIONS ADVISORY SCHEME LTD. (WRAS)
MATERIAL APPROVAL

The material referred to in this letter is suitable for contact with wholesome water for domestic purposes having met the requirements of BS6920-1:2000 and/or 2014 'Suitability of non-metallic products for use in contact with water intended for human consumption with regard to their effect on the quality of the water'.

The reference relates solely to its effect on the quality of the water with which it may come into contact and does not signify the approval of its mechanical or physical properties for any use.

RUBBERS - ETHYLENE PROPYLENE DIENE MONOMER (EPDM) - MATERIAL ONLY.

5365

EP7041F. Black coloured, compression moulded EPDM rubber sheet material. Shore hardness 72. Tested in-radius size 1.0mm. For use with water up to 85°C.

APPROVAL NUMBER: 1405571

APPROVAL HOLDER: XIAMEN HONGYANGXIN RUBBER TECH CO., LTD.

The Scheme reserves the right to review approval.
Approval 1405571 is valid between May 2014 and May 2019

An entry, as above, will accordingly be included in the Water Fittings Directory on-line under the section headed, "Materials which have passed full tests of effect on water quality".

The Directory may be found at: www.wras.co.uk/directory

Yours faithfully

A handwritten signature in black ink, appearing to read 'Jason Furnival', written in a cursive style.

Jason Furnival
Approvals & Enquiries Manager
Water Regulations Advisory Scheme

WRAS MATERIAL APPROVAL - MATERIALS WHICH HAVE PASSED FULL TESTS OF EFFECT ON WATER QUALITY

The material referred to in this letter is suitable for contact with water for domestic purposes. **Approval of this material does not signify the approval of its mechanical or physical properties for any use.**

Manufacturers or applicants may only quote in their sales literature terms which are used in this letter, namely that; 'the material as listed, having passed the tests of effect on water quality, is suitable for use in contact with wholesome water'

This may be abbreviated to 'Water Regulations Advisory Scheme - Approved Material' or 'WRAS Approved Material'.

The scope of an Approval does not extend to rebranded materials unless otherwise agreed by the Scheme.

Use of the WRAS Approved Material Logo

Approval holders may use the WRAS Approved Material logo and make reference to any approval issued by WRAS Ltd. in respect of a particular material or range of materials provided the approval is, and remains valid.

Approval holders are entitled to use the logo on the packing, promotional literature and point of sale advertising Approved Materials.

Modifications to existing Approvals

It is a condition of WRAS Material Approval that NO changes or modifications to the Approved Material, be made without the Approval Holder first notifying WRAS Ltd. Full details of the proposed changes must be provided to the Scheme. Failure to comply with this condition will immediately invalidate a previously granted Approval.

Re-Approval

WRAS will write to you 1 year before the approval expires asking whether you would like to renew it. Please complete the relevant section of the MA3 application form which will be included with the letter and return to WRAS (via e-mail or post).

Please note it is the responsibility of the Approval Holder to ensure the Approval remains valid. WRAS Ltd. accepts no liability for the delay in granting approval where this is caused by circumstances outside of the Scheme's control.

Summary of Test Results

Reference no. : BC-SUMMARY-2018-66

Customer : Dextra Pacific Plumbing Limited
 Address : Room 1901, Tung Wai Commerical Building, 109 Gloucester Road, Wanchai, H. K.
 Sample description : Stainless Steel Fittings with Press Ends Connection
 Manufacturer : Shenzhen Artway Piping Company Limited
 Brand name : N. U
 Origin : China
 Sample submitted by : Dextra Pacific Plumbing Limited
 Test standard : AS 3688 : 2016
 Test period : 12 March to 08 May 2018

A) Sample List

Type	DN (mm)	Model no.	Body marking	Specimen no.
90° Elbow	15	90°E	N • U SUS316L EN10312 90E (DN)	BC0180215-002-MISL
	20			BC0180215-003-MISL
	25			BC0180215-004-MISL
	32			BC0180215-005-MISL
	40			BC0180215-006-MISL
	50			BC0180215-007-MISL
	65			BC0180215-008-MISL
	80			BC0180215-009-MISL
	100			BC0180215-010-MISL
90° Reducing Elbow	20 x 15	90°ER	N • U SUS316L EN10312 90ER (DN) x (DN)	BC0180215-012-MISL
	25 x 15			BC0180215-013-MISL
	25 x 20			BC0180215-014-MISL
	32 x 20			BC0180215-015-MISL
	32 x 25			BC0180215-016-MISL
90° Female Elbow	15 x 1/2"	90°EF	N • U SUS316L EN10312 90EF (DN) x (Inch)	BC0180215-018-MISL
	20 x 1/2"			BC0180215-019-MISL
	20 x 3/4"			BC0180215-020-MISL
	25 x 1"			BC0180215-021-MISL
	32 x 1-1/4"			BC0180215-022-MISL
	40 x 1-1/2"			BC0180215-023-MISL
	50 x 2"			BC0180215-024-MISL
90° Elbow	15	90°ED	N • U SUS316L EN10312 90ED (DN)	BC0180215-026-MISL
	20			BC0180215-027-MISL
	25			BC0180215-028-MISL
	32			BC0180215-029-MISL
	40			BC0180215-030-MISL
	50			BC0180215-031-MISL
	65			BC0180215-032-MISL
	80			BC0180215-033-MISL
	100			BC0180215-034-MISL

Summary of Test Results

Reference no. : BC-SUMMARY-2018-66

A) Sample List (con't)

Type	DN (mm)	Model no.	Body marking	Specimen no.
90° Male Elbow	15 x 1/2"	90°EM	N • U SUS316L EN10312 90EM (DN) x (Inch)	BC0180215-036-MISL
	20 x 1/2"			BC0180215-037-MISL
	20 x 3/4"			BC0180215-038-MISL
	25 x 1"			BC0180215-039-MISL
	32 x 3/4"			BC0180215-040-MISL
	32 x 1-1/4"			BC0180215-041-MISL
	40 x 1-1/2"			BC0180215-042-MISL
	50 x 2"			BC0180215-043-MISL
45° Elbow	15	45°E	N • U SUS316L EN10312 45E (DN)	BC0180215-045-MISL
	20			BC0180215-046-MISL
	25			BC0180215-047-MISL
	32			BC0180215-048-MISL
	40			BC0180215-049-MISL
	50			BC0180215-050-MISL
	65			BC0180215-051-MISL
	80			BC0180215-052-MISL
45° Elbow	100	45°ED	N • U SUS316L EN10312 45ED (DN)	BC0180215-053-MISL
	15			BC0180215-055-MISL
	20			BC0180215-056-MISL
	25			BC0180215-057-MISL
	32			BC0180215-058-MISL
	40			BC0180215-059-MISL
	50			BC0180215-060-MISL
	65			BC0180215-061-MISL
Equal Tee	80	3T	N • U SUS316L EN10312 3T (DN)	BC0180215-062-MISL
	100			BC0180215-063-MISL
	15			BC0180215-065-MISL
	20			BC0180215-066-MISL
	25			BC0180215-067-MISL
	32			BC0180215-068-MISL
	40			BC0180215-069-MISL
	50			BC0180215-070-MISL
Reducing Tee	65	3TR	N • U SUS316L EN10312 3TR (DN) x (DN)	BC0180215-071-MISL
	80			BC0180215-072-MISL
	100			BC0180215-073-MISL
	20 x 15 x 20			BC0180215-075-MISL
	25 x 15 x 25			BC0180215-076-MISL
	25 x 20 x 25			BC0180215-077-MISL
	32 x 15 x 32			BC0180215-078-MISL
	32 x 20 x 32			BC0180215-079-MISL
	32 x 25 x 32			BC0180215-080-MISL
	40 x 15 x 40			BC0180215-081-MISL
40 x 20 x 40	BC0180215-082-MISL			
40 x 25 x 40	BC0180215-083-MISL			
40 x 32 x 40	BC0180215-084-MISL			

Summary of Test Results

Reference no. : BC-SUMMARY-2018-66

A) Sample List (con't)

Type	DN (mm)	Model no.	Body marking	Specimen no.
Reducing Tee	50 x 15 x 50	3TR	N ° U SUS316L EN10312 3TR (DN) x (DN)	BC0180215-085-MISL
	50 x 20 x 50			BC0180215-086-MISL
	50 x 25 x 50			BC0180215-087-MISL
	50 x 32 x 50			BC0180215-088-MISL
	50 x 40 x 50			BC0180215-089-MISL
	65 x 40 x 65			BC0180215-090-MISL
	65 x 50 x 65			BC0180215-091-MISL
	80 x 50 x 80			BC0180215-092-MISL
	80 x 65 x 80			BC0180215-093-MISL
	100 x 50 x 100			BC0180215-094-MISL
	100 x 65 x 100			BC0180215-095-MISL
	100 x 80 x 100			BC0180215-096-MISL
	Female Equal Tee			15 x 1/2"
20 x 3/4"		BC0180215-099-MISL		
25 x 1"		BC0180215-100-MISL		
32 x 1-1/4"		BC0180215-101-MISL		
40 x 1-1/2"		BC0180215-102-MISL		
50 x 2"		BC0180215-103-MISL		
Male Equal Tee	15 x 1/2"	3TM	N ° U SUS316L EN10312 3TM (DN) x (Inch)	BC0180215-105-MISL
	20 x 3/4"			BC0180215-106-MISL
	25 x 1"			BC0180215-107-MISL
	32 x 1-1/4"			BC0180215-108-MISL
	40 x 1-1/2"			BC0180215-109-MISL
Female Reducing Tee	50 x 2"	3TRF	N ° U SUS316L EN10312 3TRF (DN) x (Inch)	BC0180215-110-MISL
	20 x 1/2"			BC0180215-112-MISL
	25 x 1/2"			BC0180215-113-MISL
	25 x 3/4"			BC0180215-114-MISL
	32 x 1/2"			BC0180215-115-MISL
	32 x 3/4"			BC0180215-116-MISL
	32 x 1"			BC0180215-117-MISL
	40 x 1/2"			BC0180215-118-MISL
	40 x 3/4"			BC0180215-119-MISL
	40 x 1"			BC0180215-120-MISL
	40 x 1-1/4"			BC0180215-121-MISL
	50 x 1/2"			BC0180215-122-MISL
	50 x 3/4"			BC0180215-123-MISL
	50 x 1"			BC0180215-124-MISL
	50 x 1-1/4"			BC0180215-125-MISL
50 x 1-1/2"	BC0180215-126-MISL			

Summary of Test Results

Reference no. : BC-SUMMARY-2018-66

A) Sample List (con't)

Type	DN (mm)	Model no.	Body marking	Specimen no.
Male Reducing Tee	20 x 1/2"	3TRM	N ° U SUS316L EN10312 3TRM (DN) x (Inch)	BC0180215-128-MISL
	25 x 1/2"			BC0180215-129-MISL
	25 x 3/4"			BC0180215-130-MISL
	32 x 1/2"			BC0180215-131-MISL
	32 x 3/4"			BC0180215-132-MISL
	32 x 1"			BC0180215-133-MISL
	40 x 1/2"			BC0180215-134-MISL
	40 x 3/4"			BC0180215-135-MISL
	40 x 1"			BC0180215-136-MISL
	40 x 1-1/4"			BC0180215-137-MISL
	50 x 1/2"			BC0180215-138-MISL
	50 x 3/4"			BC0180215-139-MISL
	50 x 1"			BC0180215-140-MISL
	50 x 1-1/4"			BC0180215-141-MISL
50 x 1-1/2"	BC0180215-142-MISL			
Straight Coupling	15	S	N ° U SUS316L EN10312 S (DN)	BC0180215-144-MISL
	20			BC0180215-145-MISL
	25			BC0180215-146-MISL
	32			BC0180215-147-MISL
	40			BC0180215-148-MISL
	50			BC0180215-149-MISL
	65			BC0180215-150-MISL
	80			BC0180215-151-MISL
Straight Coupling	100	SK	N ° U SUS316L EN10312 SK (DN)	BC0180215-152-MISL
	15			BC0180215-154-MISL
	20			BC0180215-155-MISL
	25			BC0180215-156-MISL
	32			BC0180215-157-MISL
	40			BC0180215-158-MISL
	50			BC0180215-159-MISL
	65			BC0180215-160-MISL
Male Coupling	80	SM	N ° U SUS316L EN10312 SM (DN) x (Inch)	BC0180215-161-MISL
	100			BC0180215-162-MISL
	15 x 1/2"			BC0180215-164-MISL
	20 x 3/4"			BC0180215-165-MISL
	25 x 1"			BC0180215-166-MISL
	32 x 1-1/4"			BC0180215-167-MISL
40 x 1-1/2"	BC0180215-168-MISL			
50 x 2"	BC0180215-169-MISL			

Summary of Test Results

Reference no. : BC-SUMMARY-2018-66

A) Sample List (con't)

Type	DN (mm)	Model no.	Body marking	Specimen no.
Male Reducing Coupling	25 x 1/2"	SRM	N ° U SUS316L EN10312 SRM (DN) x (Inch)	BC0180215-171-MISL
	25 x 3/4"			BC0180215-172-MISL
	32 x 3/4"			BC0180215-173-MISL
	32 x 1"			BC0180215-174-MISL
	40 x 1"			BC0180215-175-MISL
	40 x 1-1/4"			BC0180215-176-MISL
	50 x 1-1/4"			BC0180215-177-MISL
	50 x 1-1/2"			BC0180215-178-MISL
Female Coupling	15 x 1/2"	SF	N ° U SUS316L EN10312 SF (DN) x (Inch)	BC0180215-180-MISL
	20 x 3/4"			BC0180215-181-MISL
	25 x 1"			BC0180215-182-MISL
	32 x 1-1/4"			BC0180215-183-MISL
	40 x 1-1/2"			BC0180215-184-MISL
	50 x 2"			BC0180215-185-MISL
Female Reducing Coupling	25 x 1/2"	SRF	N ° U SUS316L EN10312 SRF (DN) x (Inch)	BC0180215-187-MISL
	25 x 3/4"			BC0180215-188-MISL
	32 x 3/4"			BC0180215-189-MISL
	32 x 1"			BC0180215-190-MISL
	40 x 1"			BC0180215-191-MISL
	40 x 1-1/4"			BC0180215-192-MISL
	50 x 1-1/4"			BC0180215-193-MISL
	50 x 1-1/2"			BC0180215-194-MISL
Reducer	20 x 15	SR	N ° U SUS316L EN10312 SR (DN) x (DN)	BC0180215-196-MISL
	25 x 15			BC0180215-197-MISL
	25 x 20			BC0180215-198-MISL
	32 x 20			BC0180215-199-MISL
	32 x 25			BC0180215-200-MISL
	40 x 25			BC0180215-201-MISL
	40 x 32			BC0180215-202-MISL
	50 x 32			BC0180215-203-MISL
	50 x 40			BC0180215-204-MISL
	65 x 50			BC0180215-205-MISL
	80 x 65			BC0180215-206-MISL
	100 x 65			BC0180215-207-MISL
	100 x 80			BC0180215-208-MISL
	Reducer			20 x 15
25 x 15		BC0180215-211-MISL		
25 x 20		BC0180215-212-MISL		
32 x 15		BC0180215-213-MISL		
32 x 20		BC0180215-214-MISL		
32 x 25		BC0180215-215-MISL		

Summary of Test Results

Reference no. : BC-SUMMARY-2018-66

A) Sample List (con't)

Type	DN (mm)	Model no.	Body marking	Specimen no.
Reducer	40 x 15	SPR	N • U SUS316L EN10312 SPR (DN) x (DN)	BC0180215-216-MISL
	40 x 20			BC0180215-217-MISL
	40 x 25			BC0180215-218-MISL
	40 x 32			BC0180215-219-MISL
	50 x 15			BC0180215-220-MISL
	50 x 20			BC0180215-221-MISL
	50 x 25			BC0180215-222-MISL
	50 x 32			BC0180215-223-MISL
	50 x 40			BC0180215-224-MISL
Flange Adaptor	32	SL	N • U SUS316L EN10312 SL (DN)	BC0180329-002-MISL
	40			BC0180329-003-MISL
	50			BC0180329-004-MISL
	65			BC0180329-005-MISL
	80			BC0180329-006-MISL
	100			BC0180329-007-MISL
End Cap	15	C	N • U SUS316L EN10312 C (DN)	BC0180329-009-MISL
	20			BC0180329-010-MISL
	25			BC0180329-011-MISL
	32			BC0180329-012-MISL
	40			BC0180329-013-MISL
	50			BC0180329-014-MISL
	65			BC0180329-015-MISL
	80			BC0180329-016-MISL
	100			BC0180329-017-MISL
Coupling	1/2"	HFS	N • U SUS316L EN10312 HFS (Inch)	BC0180329-019-MISL
	3/4"			BC0180329-020-MISL
	1"			BC0180329-021-MISL
	1-1/4"			BC0180329-022-MISL
	1-1/2"			BC0180329-023-MISL
	2"			BC0180329-024-MISL
Straight Adaptor	15 x 1/2"	HF	N • U SUS316L EN10312 HF (DN) x (Inch)	BC0180329-026-MISL
	20 x 3/4"			BC0180329-027-MISL
	25 x 1"			BC0180329-028-MISL
	32 x 1-1/4"			BC0180329-029-MISL
	40 x 1-1/2"			BC0180329-030-MISL
	50 x 2"			BC0180329-031-MISL
Flange	50	L	N • U SUS316L EN10312 L (DN)	BC0180329-033-MISL
	65			BC0180329-034-MISL
	80			BC0180329-035-MISL
	100			BC0180329-036-MISL
Pipe Bridge	15	Q	N • U SUS316L EN10312 Q (DN)	BC0180329-038-MISL
	20			BC0180329-039-MISL
	25			BC0180329-040-MISL

Summary of Test Results

Reference no. : BC-SUMMARY-2018-66

A) Sample List (con't)

Type	DN (mm)	Model no.	Body marking	Specimen no.
Bushing	3/4" x 1/2"	FM	N ° U SUS316L EN10312 FM (Inch) x (Inch)	BC0180329-042-MISL
	1" x 1/2"			BC0180329-043-MISL
	1" x 3/4"			BC0180329-044-MISL
	1-1/4" x 1"			BC0180329-045-MISL
	1-1/2" x 1-1/4"			BC0180329-046-MISL
	2" x 1-1/2"			BC0180329-047-MISL
Nipple	1/2"	SD	N ° U SUS316L EN10312 SD (Inch)	BC0180329-049-MISL
	3/4"			BC0180329-050-MISL
	1"			BC0180329-051-MISL
	1-1/4"			BC0180329-052-MISL
	1-1/2"			BC0180329-053-MISL
	2"			BC0180329-054-MISL

B) Test Item

1) Dimensions Check (In-house method based on Manufacturer Requirement)

Type	DN (mm)	Test results	Castco LRN
90° Elbow	15	Passed	BC0180215-001-MISL
	20	Passed	
	25	Passed	
	32	Passed	
	40	Passed	
	50	Passed	
	65	Passed	
	80	Passed	
90° Reducing Elbow	20 x 15	Passed	BC0180215-011-MISL
	25 x 15	Passed	
	25 x 20	Passed	
	32 x 20	Passed	
	32 x 25	Passed	
90° Female Elbow	15 x 1/2"	Passed	BC0180215-017-MISL
	20 x 1/2"	Passed	
	20 x 3/4"	Passed	
	25 x 1"	Passed	
	32 x 1-1/4"	Passed	
	40 x 1-1/2"	Passed	
90° Elbow	50 x 2"	Passed	BC0180215-025-MISL
	15	Passed	
	20	Passed	
	25	Passed	
	32	Passed	
	40	Passed	
	50	Passed	
	65	Passed	
80	Passed		
	100	Passed	

Summary of Test Results

Reference no. : BC-SUMMARY-2018-66

B) Test Item (con't)

1) Dimensions Check (In-house method based on Manufacturer Requirement)

Type	DN (mm)	Test results	Castco LRN
90° Male Elbow	15 x 1/2"	Passed	BC0180215-035-MISL
	20 x 1/2"	Passed	
	20 x 3/4"	Passed	
	25 x 1"	Passed	
	32 x 3/4"	Passed	
	32 x 1-1/4"	Passed	
	40 x 1-1/2"	Passed	
	50 x 2"	Passed	
45° Elbow	15	Passed	BC0180215-044-MISL
	20	Passed	
	25	Passed	
	32	Passed	
	40	Passed	
	50	Passed	
	65	Passed	
	80	Passed	
45° Elbow	100	Passed	BC0180215-054-MISL
	15	Passed	
	20	Passed	
	25	Passed	
	32	Passed	
	40	Passed	
	50	Passed	
	65	Passed	
Equal Tee	80	Passed	BC0180215-064-MISL
	100	Passed	
	15	Passed	
	20	Passed	
	25	Passed	
	32	Passed	
	40	Passed	
	50	Passed	
Reducing Tee	65	Passed	BC0180215-074-MISL
	20 x 15 x 20	Passed	
	25 x 15 x 25	Passed	
	25 x 20 x 25	Passed	
	32 x 15 x 32	Passed	
	32 x 20 x 32	Passed	
	32 x 25 x 32	Passed	
	40 x 15 x 40	Passed	
	40 x 20 x 40	Passed	
40 x 25 x 40	Passed		
40 x 32 x 40	Passed		

Summary of Test Results

Reference no. : BC-SUMMARY-2018-66

B) Test Item (con't)

1) Dimensions Check (In-house method based on Manufacturer Requirement)

Type	DN (mm)	Test results	Castco LRN
Reducing Tee	50 x 15 x 50	Passed	BC0180215-074-MISL
	50 x 20 x 50	Passed	
	50 x 25 x 50	Passed	
	50 x 32 x 50	Passed	
	50 x 40 x 50	Passed	
	65 x 40 x 65	Passed	
	65 x 50 x 65	Passed	
	80 x 50 x 80	Passed	
	80 x 65 x 80	Passed	
	100 x 50 x 100	Passed	
	100 x 65 x 100	Passed	
Female Equal Tee	15 x 1/2"	Passed	BC0180215-097-MISL
	20 x 3/4"	Passed	
	25 x 1"	Passed	
	32 x 1-1/4"	Passed	
	40 x 1-1/2"	Passed	
Male Equal Tee	50 x 2"	Passed	BC0180215-104-MISL
	15 x 1/2"	Passed	
	20 x 3/4"	Passed	
	25 x 1"	Passed	
	32 x 1-1/4"	Passed	
Female Reducing Tee	40 x 1-1/2"	Passed	BC0180215-111-MISL
	50 x 2"	Passed	
	20 x 1/2"	Passed	
	25 x 1/2"	Passed	
	25 x 3/4"	Passed	
	32 x 1/2"	Passed	
	32 x 3/4"	Passed	
	32 x 1"	Passed	
	40 x 1/2"	Passed	
	40 x 3/4"	Passed	
	40 x 1"	Passed	
	40 x 1-1/4"	Passed	
	50 x 1/2"	Passed	
	50 x 3/4"	Passed	
50 x 1"	Passed		
50 x 1-1/4"	Passed		
50 x 1-1/2"	Passed		

Summary of Test Results

Reference no. : BC-SUMMARY-2018-66

B) Test Item (con't)

1) Dimensions Check (In-house method based on Manufacturer Requirement)

Type	DN (mm)	Test results	Castco LRN
Male Reducing Tee	20 x 1/2"	Passed	BC0180215-127-MISL
	25 x 1/2"	Passed	
	25 x 3/4"	Passed	
	32 x 1/2"	Passed	
	32 x 3/4"	Passed	
	32 x 1"	Passed	
	40 x 1/2"	Passed	
	40 x 3/4"	Passed	
	40 x 1"	Passed	
	40 x 1-1/4"	Passed	
	50 x 1/2"	Passed	
	50 x 3/4"	Passed	
	50 x 1"	Passed	
	50 x 1-1/4"	Passed	
50 x 1-1/2"	Passed		
Straight Coupling	15	Passed	BC0180215-143-MISL
	20	Passed	
	25	Passed	
	32	Passed	
	40	Passed	
	50	Passed	
	65	Passed	
	80	Passed	
100	Passed		
Straight Coupling	15	Passed	BC0180215-153-MISL
	20	Passed	
	25	Passed	
	32	Passed	
	40	Passed	
	50	Passed	
	65	Passed	
	80	Passed	
100	Passed		
Male Coupling	15 x 1/2"	Passed	BC0180215-163-MISL
	20 x 3/4"	Passed	
	25 x 1"	Passed	
	32 x 1-1/4"	Passed	
	40 x 1-1/2"	Passed	
50 x 2"	Passed		

Summary of Test Results

Reference no. : BC-SUMMARY-2018-66

B) Test Item (con't)

1) Dimensions Check (In-house method based on Manufacturer Requirement)

Type	DN (mm)	Test results	Castco LRN
Male Reducing Coupling	25 x 1/2"	Passed	BC0180215-170-MISL
	25 x 3/4"	Passed	
	32 x 3/4"	Passed	
	32 x 1"	Passed	
	40 x 1"	Passed	
	40 x 1-1/4"	Passed	
	50 x 1-1/4"	Passed	
	50 x 1-1/2"	Passed	
Female Coupling	15 x 1/2"	Passed	BC0180215-179-MISL
	20 x 3/4"	Passed	
	25 x 1"	Passed	
	32 x 1-1/4"	Passed	
	40 x 1-1/2"	Passed	
	50 x 2"	Passed	
Female Reducing Coupling	25 x 1/2"	Passed	BC0180215-186-MISL
	25 x 3/4"	Passed	
	32 x 3/4"	Passed	
	32 x 1"	Passed	
	40 x 1"	Passed	
	40 x 1-1/4"	Passed	
	50 x 1-1/4"	Passed	
Reducer	50 x 1-1/2"	Passed	BC0180215-195-MISL
	20 x 15	Passed	
	25 x 15	Passed	
	25 x 20	Passed	
	32 x 20	Passed	
	32 x 25	Passed	
	40 x 25	Passed	
	40 x 32	Passed	
	50 x 32	Passed	
	50 x 40	Passed	
	65 x 50	Passed	
	80 x 65	Passed	
	100 x 65	Passed	
	100 x 80	Passed	
Reducer	20 x 15	Passed	BC0180215-209-MISL
	25 x 15	Passed	
	25 x 20	Passed	
	32 x 15	Passed	
	32 x 20	Passed	
	32 x 25	Passed	

Summary of Test Results

Reference no. : BC-SUMMARY-2018-66

B) Test Item (con't)

1) Dimensions Check (In-house method based on Manufacturer Requirement)

Type	DN (mm)	Test results	Castco LRN
Reducer	40 x 15	Passed	BC0180215-209-MISL
	40 x 20	Passed	
	40 x 25	Passed	
	40 x 32	Passed	
	50 x 15	Passed	
	50 x 20	Passed	
	50 x 25	Passed	
	50 x 32	Passed	
	50 x 40	Passed	
Flange Adaptor	32	Passed	BC0180329-001-MISL
	40	Passed	
	50	Passed	
	65	Passed	
	80	Passed	
	100	Passed	
End Cap	15	Passed	BC0180329-008-MISL
	20	Passed	
	25	Passed	
	32	Passed	
	40	Passed	
	50	Passed	
	65	Passed	
	80	Passed	
100	Passed		
Coupling	1/2"	Passed	BC0180329-018-MISL
	3/4"	Passed	
	1"	Passed	
	1-1/4"	Passed	
	1-1/2"	Passed	
	2"	Passed	
Straight Adaptor	15 x 1/2"	Passed	BC0180329-025-MISL
	20 x 3/4"	Passed	
	25 x 1"	Passed	
	32 x 1-1/4"	Passed	
	40 x 1-1/2"	Passed	
	50 x 2"	Passed	
Flange	50	Passed	BC0180329-032-MISL
	65	Passed	
	80	Passed	
	100	Passed	
Pipe Bridge	15	Passed	BC0180329-037-MISL
	20	Passed	
	25	Passed	

Summary of Test Results

Reference no. : BC-SUMMARY-2018-66

B) Test Item (con't)

1) Dimensions Check (In-house method based on Manufacturer Requirement)

Type	DN (mm)	Test results	Castco LRN
Bushing	3/4" x 1/2"	Passed	BC0180329-041-MISL
	1" x 1/2"	Passed	
	1" x 3/4"	Passed	
	1-1/4" x 1"	Passed	
	1-1/2" x 1-1/4"	Passed	
	2" x 1-1/2"	Passed	
Nipple	1/2"	Passed	BC0180329-048-MISL
	3/4"	Passed	
	1"	Passed	
	1-1/4"	Passed	
	1-1/2"	Passed	
	2"	Passed	

2) Leaktightness Under Internal Pressure Test (AS 3688 : 2016 Clause 4.2 Appendix D)

Type	DN (mm)	Test results	Castco LRN
90° Elbow	15	Passed	BC0180215-001-MISL
	25	Passed	
	40	Passed	
	65	Passed	
	100	Passed	
Equal Tee	15	Passed	BC0180215-064-MISL
	25	Passed	
	40	Passed	
	65	Passed	
	100	Passed	
Straight Coupling	15	Passed	BC0180215-143-MISL
	25	Passed	
	40	Passed	
	65	Passed	
	100	Passed	
Reducer	20 x 15	Passed	BC0180215-195-MISL
	32 x 20	Passed	
	40 x 32	Passed	
	65 x 50	Passed	
	100 x 80	Passed	

Summary of Test Results

Reference no. : BC-SUMMARY-2018-66

B) Test Item (con't)

3) Pressure Cycling Test (AS 3688 : 2016 Clause 4.4 Appendix F)

Type	DN (mm)	Test results	Castco LRN
90° Elbow	15	Passed	BC0180215-001-MISL
	25	Passed	
	40	Passed	
	65	Passed	
	100	Passed	
Equal Tee	15	Passed	BC0180215-064-MISL
	25	Passed	
	40	Passed	
	65	Passed	
	100	Passed	
Straight Coupling	15	Passed	BC0180215-143-MISL
	25	Passed	
	40	Passed	
	65	Passed	
	100	Passed	
Reducer	20 x 15	Passed	BC0180215-195-MISL
	32 x 20	Passed	
	40 x 32	Passed	
	65 x 50	Passed	
	100 x 80	Passed	

4) Resistance to Pull-out of Assembled Joints (AS 3688 : 2016 Clause 4.5 Appendix G)

Type	DN (mm)	Test results	Castco LRN
Equal Tee	15	Passed	BC0180215-064-MISL
	25	Passed	
	40	Passed	
	65	Passed	
	100	Passed	
Straight Coupling	15	Passed	BC0180215-143-MISL
	25	Passed	
	40	Passed	
	65	Passed	
	100	Passed	
Reducer	20 x 15	Passed	BC0180215-195-MISL
	32 x 20	Passed	
	40 x 32	Passed	
	65 x 50	Passed	
	100 x 80	Passed	

Summary of Test Results

Reference no. : BC-SUMMARY-2018-66

B) Test Item (con't)

5) Leaktightness Under Internal Pressure Whilst Subjected to Bending Test (AS 3688 : 2016 Clause 4.7 Appendix I)

Type	DN (mm)	Test results	Castco LRN
Equal Tee	15	Passed	BC0180215-064-MISL
	25	Passed	
	40	Passed	
	65	Passed	
	100	Passed	
Straight Coupling	15	Passed	BC0180215-143-MISL
	25	Passed	
	40	Passed	
	65	Passed	
	100	Passed	
Reducer	20 x 15	Passed	BC0180215-195-MISL
	32 x 20	Passed	
	40 x 32	Passed	
	65 x 50	Passed	
	100 x 80	Passed	

6) Compatibility of Water Fittings with Pipes (AS 3688 : 2016 Clause 4.8 Appendix J)

Type	DN (mm)	Test results	Castco LRN
90° Elbow	15	Passed	BC0180215-001-MISL
	25	Passed	
	40	Passed	
	65	Passed	
	100	Passed	
Equal Tee	15	Passed	BC0180215-064-MISL
	25	Passed	
	40	Passed	
	65	Passed	
	100	Passed	
Straight Coupling	15	Passed	BC0180215-143-MISL
	25	Passed	
	40	Passed	
	65	Passed	
	100	Passed	
Reducer	20 x 15	Passed	BC0180215-195-MISL
	32 x 20	Passed	
	40 x 32	Passed	
	65 x 50	Passed	
	100 x 80	Passed	

Summary of Test Results

Reference no. : BC-SUMMARY-2018-66

B) Test Item (con't)

7) Resistance of Press Fitting Joints and Tubes to Vibration (AS 3688 : 2016 Clause 4.13 Appendix P)

Type	DN (mm)	Test results	Castco LRN
90° Elbow	15	Passed	BC0180215-001-MISL
	25	Passed	
	40	Passed	
	65	Passed	
	100	Passed	
Straight Coupling	15	Passed	BC0180215-143-MISL
	25	Passed	
	40	Passed	
	65	Passed	
	100	Passed	

8) Chemical Composition (BS EN 10088-1 : 2014, Table 2, Grade 1.4404 (316L))

Type	DN (mm)	Test results	Castco LRN
90° Elbow	15	Passed	MS0180426-3
	25	Passed	MS0180329-17
	40	Passed	MS0180329-18
	65	Passed	MS0180329-19
	100	Passed	MS0180329-20
Equal Tee	15	Passed	MS0180329-26
	25	Passed	MS0180329-27
	40	Passed	MS0180329-28
	65	Passed	MS0180329-29
	100	Passed	MS0180329-30
Straight Coupling	15	Passed	MS0180412-3
	25	Passed	MS0180412-4
	40	Passed	MS0180412-5
	65	Passed	MS0180412-6
	100	Passed	MS0180412-7
Reducer	20 x 15	Passed	MS0180412-13
	32 x 20	Passed	MS0180412-14
	40 x 32	Passed	MS0180412-15
	65 x 50	Passed	MS0180412-16
	100 x 80	Passed	MS0180412-17

9) Corrosion Resistance (BS EN ISO 3651-2 : 1998)

Type	DN (mm)	Test results	Castco LRN
90° Elbow	15	Passed	MS0180329-21
	25	Passed	MS0180329-22
	40	Passed	MS0180329-23
	65	Passed	MS0180329-24
	100	Passed	MS0180329-25

Summary of Test Results

Reference no. : BC-SUMMARY-2018-66

B) Test Item (con't)

9) Corrosion Resistance (BS EN ISO 3651-2 : 1998)

Type	DN (mm)	Test results	Castco LRN
Equal Tee	15	Passed	MS0180329-31
	25	Passed	MS0180329-32
	40	Passed	MS0180329-33
	65	Passed	MS0180329-34
	100	Passed	MS0180329-35
Straight Coupling	15	Passed	MS0180412-8
	25	Passed	MS0180412-9
	40	Passed	MS0180412-10
	65	Passed	MS0180412-11
	100	Passed	MS0180412-12
Reducer	20 x 15	Passed	MS0180412-18
	32 x 20	Passed	MS0180412-19
	40 x 32	Passed	MS0180412-20
	65 x 50	Passed	MS0180412-21
	100 x 80	Passed	MS0180412-22

 Prepare by : _____
 Date : 28 May 2018


FU HO MAN
 Assistant Technical Manager

 Review by : _____
 Date : 28 May 2018


WONG KA MAN
 Senior Manager

Test Report**Testing of products for use in contact with drinking water**

Date of issue: 08-12-2017

Page 1A of 5

Castco LRN: 171009-0060

Details as supplied by customer

Name of Customer : Dextra Pacific Plumbing Limited
Address : Suite 1901, Tung Wai Commercial Building, 109 Gloucester Road, Wan Chai, Hong Kong
Job Title : AS/NZS 4020:2005

Sample details as supplied by customer

Date of Sample Received : 09-10-2017
Test Period : 11-10-2017 to 12-10-2017
Brand Name : N.U
Manufacturer : Shenzhen Artway Piping Co., Ltd.
Origin : PRC

Test Method(s):

- 1) AS/NZS 4020:2005 Appendix H - Extraction of Metals

Remarks:

- I. Test results only relate to the specimen tested and showed on Appendix A.
II. In-the-product exposure.
III. The sample/s mentioned in this report is/are submitted/supplied/manufactured by the Client. Castco therefore assumes no responsibility for the accuracy of information on the brand name, origin of manufacture, consignment or any information supplied.
IV. This test report supersedes previous test report of Castco LRN: 171009-0060 (Lims internal test report no. : 56063) issued on 17-10-2017.

Checked by :


AU KWOK KIN
Senior Chemist

Certified by :


CHENG CHI FAI
Senior Manager

Test Report

Testing of products for use in contact with drinking water

Date of issue: 08-12-2017

Page 2A of 5

Castco LRN: 171009-0060

Castco Sample ID : 171009-0060-001

Test period : 11-10-2017 to 12-10-2017

Model No. : PP0156M - 15mm x 1.0mm

Specimen No. : 304 Pipe

Extraction Temperature : 20°C

Item	Metal Elements	Test Water Blank (mg/L)	'Stainless Steel Grade 304 DN15 Pipe' 1 st Extraction (mg/L)		Reporting Limit (mg/L)	WHO Limit (mg/L)
			sample 1	sample 2		
1	Chromium	<0.0010	<0.0010	<0.0010	0.0010	0.05
2	Nickel	<0.0010	0.0011	<0.0010	0.0010	0.07
3	Copper	<0.0050	<0.0050	<0.0050	0.0050	2
4	Arsenic	<0.00070	<0.00070	<0.00070	0.00070	0.01
5	Selenium	<0.0010	<0.0010	<0.0010	0.0010	0.04
6	Molybdenum	<0.0050	<0.0050	<0.0050	0.0050	--
7	Silver	<0.0050	<0.0050	<0.0050	0.0050	--
8	Cadmium	<0.00020	<0.00020	0.0011	0.00020	0.003
9	Antimony	<0.00030	<0.00030	<0.00030	0.00030	0.02
10	Barium	<0.0050	<0.0050	<0.0050	0.0050	0.7
11	Mercury	<0.00010	<0.00010	<0.00010	0.00010	0.006
12	Lead	<0.0010	<0.0010	<0.0010	0.0010	0.01

Remarks:

a) This test report supersedes previous test report of Castco LRN: 171009-0060 (Lims internal test report no. : 56063) issued on 17-10-2017.

Test Report

Testing of products for use in contact with drinking water

Date of issue: 08-12-2017

Page 3A of 5

Castco LRN: 171009-0060

Castco Sample ID : 171009-0060-002

Test period : 11-10-2017 to 12-10-2017

Model No. : PP316015M - 15mm

Specimen No. : 316L Pipe

Extraction Temperature : 20°C

Item	Metal Elements	Test Water Blank (mg/L)	'Stainless Steel Grade 316L DN15 Pipe'		Reporting Limit (mg/L)	WHO Limit (mg/L)
			1 st Extraction (mg/L)			
			sample 1	sample 2		
1	Chromium	<0.0010	<0.0010	<0.0010	0.0010	0.05
2	Nickel	<0.0010	0.0012	<0.0010	0.0010	0.07
3	Copper	<0.0050	<0.0050	<0.0050	0.0050	2
4	Arsenic	<0.00070	<0.00070	<0.00070	0.00070	0.01
5	Selenium	<0.0010	<0.0010	<0.0010	0.0010	0.04
6	Molybdenum	<0.0050	<0.0050	<0.0050	0.0050	--
7	Silver	<0.0050	<0.0050	<0.0050	0.0050	--
8	Cadmium	<0.00020	<0.00020	<0.00020	0.00020	0.003
9	Antimony	<0.00030	<0.00030	<0.00030	0.00030	0.02
10	Barium	<0.0050	<0.0050	<0.0050	0.0050	0.7
11	Mercury	<0.00010	<0.00010	<0.00010	0.00010	0.006
12	Lead	<0.0010	<0.0010	<0.0010	0.0010	0.01

Remarks:

a) This test report supersedes previous test report of Castco LRN: 171009-0060 (Lims internal test report no. : 56063) issued on 17-10-2017.

Test Report

Testing of products for use in contact with drinking water

Date of issue: 08-12-2017

Page 4A of 5

Castco LRN: 171009-0060

Castco Sample ID : 171009-0060-003

Test period : 11-10-2017 to 12-10-2017

Model No. : 90E Elbow F x F

Specimen No. : 304 DN15 Fitting

Extraction Temperature : 20°C

Item	Metal Elements	Test Water Blank (mg/L)	'Stainless Steel Grade 304 DN15 Fitting' 1 st Extraction (mg/L)		Reporting Limit (mg/L)	WHO Limit (mg/L)
			sample 1	sample 2		
1	Chromium	<0.0010	<0.0010	<0.0010	0.0010	0.05
2	Nickel	<0.0010	<0.0010	<0.0010	0.0010	0.07
3	Copper	<0.0050	<0.0050	<0.0050	0.0050	2
4	Arsenic	<0.00070	<0.00070	<0.00070	0.00070	0.01
5	Selenium	<0.0010	<0.0010	<0.0010	0.0010	0.04
6	Molybdenum	<0.0050	<0.0050	<0.0050	0.0050	--
7	Silver	<0.0050	<0.0050	<0.0050	0.0050	--
8	Cadmium	<0.00020	<0.00020	<0.00020	0.00020	0.003
9	Antimony	<0.00030	<0.00030	<0.00030	0.00030	0.02
10	Barium	<0.0050	<0.0050	0.0068	0.0050	0.7
11	Mercury	<0.00010	<0.00010	<0.00010	0.00010	0.006
12	Lead	<0.0010	<0.0010	<0.0010	0.0010	0.01

Remarks:

a) This test report supersedes previous test report of Castco LRN: 171009-0060 (Lims internal test report no. : 56063) issued on 17-10-2017.

Test Report

Testing of products for use in contact with drinking water

Date of issue: 08-12-2017

Page 5A of 5

Castco LRN: 171009-0060

Castco Sample ID : 171009-0060-004

Test period : 11-10-2017 to 12-10-2017

Model No. : 90E Elbow F x F

Specimen No. : 316L D15 Fitting

Extraction Temperature : 20°C

Item	Metal Elements	Test Water Blank (mg/L)	'Stainless Steel Grade 316L DN15 Fitting'		Reporting Limit (mg/L)	WHO Limit (mg/L)
			1 st Extraction (mg/L)			
			sample 1	sample 2		
1	Chromium	<0.0010	<0.0010	<0.0010	0.0010	0.05
2	Nickel	<0.0010	<0.0010	<0.0010	0.0010	0.07
3	Copper	<0.0050	<0.0050	<0.0050	0.0050	2
4	Arsenic	<0.00070	<0.00070	<0.00070	0.00070	0.01
5	Selenium	<0.0010	<0.0010	<0.0010	0.0010	0.04
6	Molybdenum	<0.0050	<0.0050	<0.0050	0.0050	--
7	Silver	<0.0050	<0.0050	<0.0050	0.0050	--
8	Cadmium	<0.00020	<0.00020	<0.00020	0.00020	0.003
9	Antimony	<0.00030	<0.00030	<0.00030	0.00030	0.02
10	Barium	<0.0050	0.0074	0.0053	0.0050	0.7
11	Mercury	<0.00010	<0.00010	<0.00010	0.00010	0.006
12	Lead	<0.0010	<0.0010	<0.0010	0.0010	0.01

Remarks:

a) This test report supersedes previous test report of Castco LRN: 171009-0060 (Lims internal test report no. : 56063) issued on 17-10-2017.

End of Report

Castco Sample ID : 171009-0060-001

Description of Sample: 'Stainless Steel Grade 304 DN15 Pipe'

**Remarks:**

- a) This Appendix A supersedes previous Appendix A of Castco LRN: 171009-0060 (Lims internal test report no. : 56063) issued on 17-10-2017.

Castco Sample ID : 171009-0060-002

Description of Sample: 'Stainless Steel Grade 316L DN15 Pipe'

**Remarks:**

- a) This Appendix A supersedes previous Appendix A of Castco LRN: 171009-0060 (Lims internal test report no. : 56063) issued on 17-10-2017.

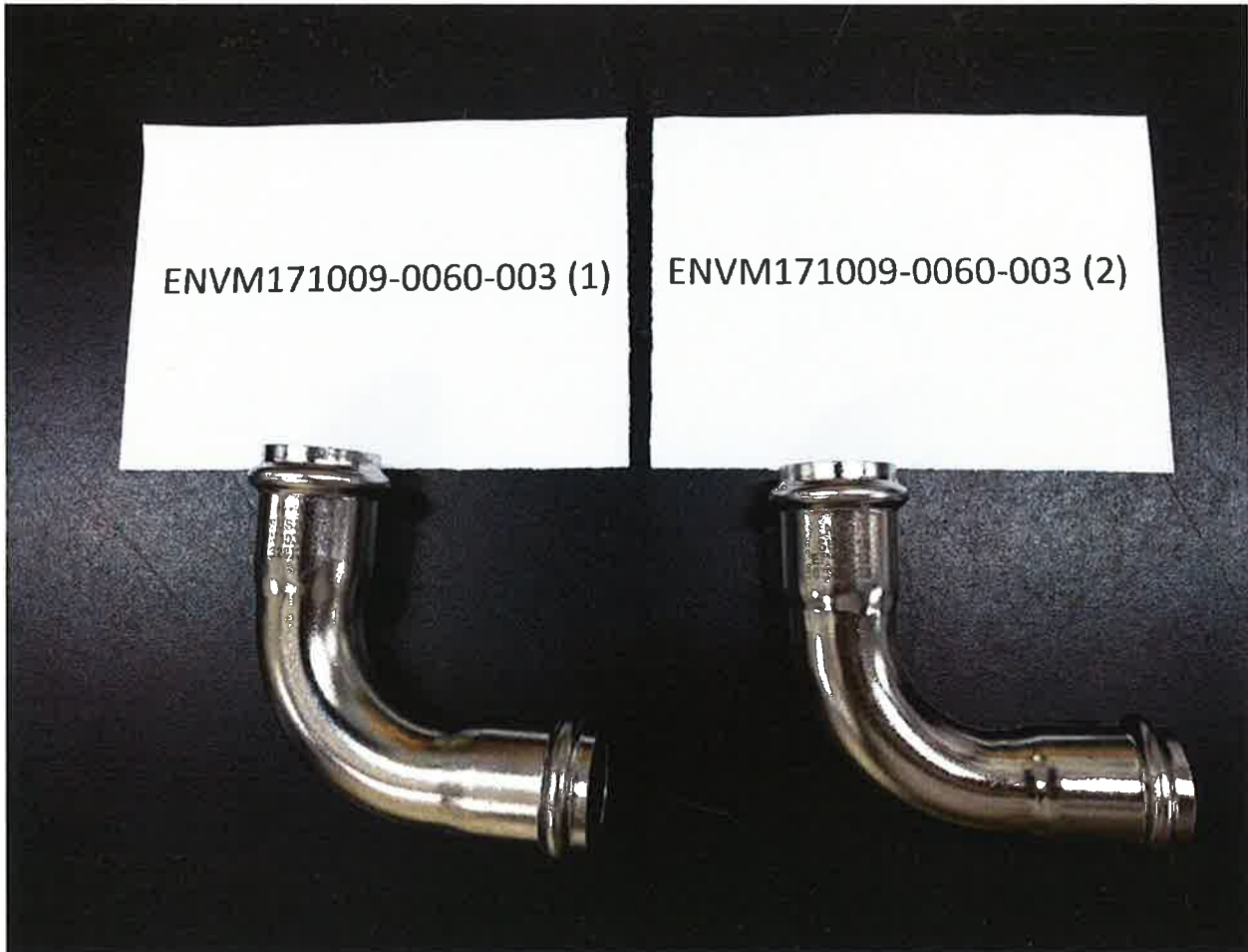
Date of issue: 08-12-2017

Page 3A of 4 pages

Castco LRN: 171009-0060

Castco Sample ID : 171009-0060-003

Description of Sample: 'Stainless Steel Grade 304 DN15 Fitting'

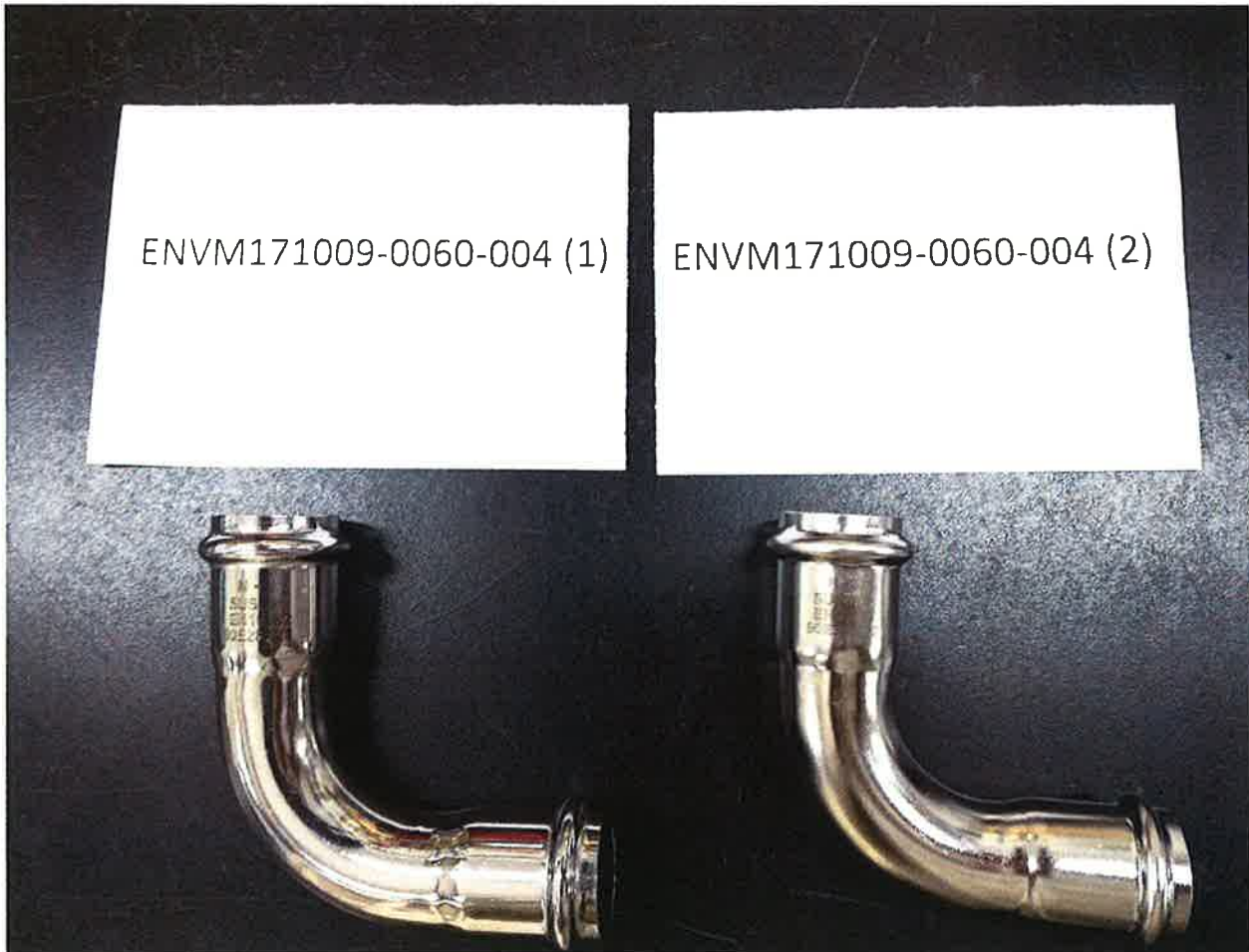


Remarks:

- a) This Appendix A supersedes previous Appendix A of Castco LRN: 171009-0060 (Lims internal test report no. : 56063) issued on 17-10-2017.

Castco Sample ID : 171009-0060-004

Description of Sample: 'Stainless Steel Grade 316L DN15 Fitting'

**Remarks:**

- a) This Appendix A supersedes previous Appendix A of Castco LRN: 171009-0060 (Lims internal test report no. : 56063) issued on 17-10-2017.

Summary of Test Results

Reference no. : BC-SUMMARY-2016-35

Customer : Dextra Pacific Plumbing Limited
Address : Room 1901, Tung Wai Comm. Bldg., 109 Gloucester Road, Hong Kong
Sample description : Stainless Steel Pipes
Manufacturer : Shenzhen Artway Piping Company Limited
Brand : N.U
Origin : China
Sample submitted by : Dextra Pacific Plumbing Limited
Test standard : BS EN 10312 : 2002
Test period : 27 June to 14 July 2016

A) Sample list

Sample description	DN (mm)	Nominal wall thickness (mm)	Model no.	Series	Specimen no.
Stainless Steel Pipes	15	1.0	PP0156M	2	BC0160622-2-MISL
	22	1.2	PP0226M		BC0160622-3-MISL
	28	1.2	PP0286M		BC0160622-4-MISL
	35	1.5	PP0356M		BC0160622-5-MISL
	42	1.5	PP0426M		BC0160622-6-MISL
	54	1.5	PP0546M		BC0160622-7-MISL
	76.1	2.0	PP0766M		BC0160622-8-MISL
	88.9	2.0	PP0886M		BC0160622-9-MISL
	108	2.0	PP1086M		BC0160622-10-MISL

B) Test Item

1) Dimensions check (BS EN 10312 : 2002 Clause 8.8 Table 1)

Sample description	DN	Test results	Castco LRN
Stainless Steel Pipes	15	Passed	BC0160622-1-MISL
	22	Passed	
	28	Passed	
	35	Passed	
	42	Passed	
	54	Passed	
	76.1	Passed	
	88.9	Passed	
	108	Passed	

2) Hydrostatic test (BS EN 10312 : 2002 Clause 11.4.3)

Sample description	DN	Test results	Castco LRN
Stainless Steel Pipes	15	Passed	BC0160622-1-MISL
	22	Passed	
	28	Passed	
	35	Passed	
	42	Passed	
	54	Passed	
	76.1	Passed	
	88.9	Passed	
	108	Passed	

Test Report
Dimensions Check of Welded Stainless Steel Tubes
(BS EN 10312 : 2002 Clause 8.8 Table 2)

Date of issue : 22 August 2016

Page 1A of 9 page(s)

Castco LRN : BC0160622-1-MISL

Details as supplied by customer

Customer : Dextra Pacific Plumbing Limited

Address : Room 1901, Tung Wai Comm. Bldg., 109 Gloucester Road, Hong Kong

Job title : - -

Sample description : Stainless Steel Pipes

Manufacturer : Shenzhen Artway Piping Company Limited

Brand name : N.U

Body marking : N.U DOUBLE PRESS SUS304 EN10312 SERIES II

Series : 2

Origin : China

Sample submitted by : Dextra Pacific Plumbing Limited

Customer's ref. no. : - -

Contract no. : - -

Laboratory test results

Date of sample received : 22 June 2016

Date of test : 27 June 2016

Specimen no.	BC0160622-2-MISL	BC0160622-3-MISL	BC0160622-4-MISL	BC0160622-5-MISL	BC0160622-6-MISL	BC0160622-7-MISL	BC0160622-8-MISL	BC0160622-9-MISL	BC0160622-10-MISL	
DN (mm)	15	22	28	35	42	54	76.1	88.9	108	
Model no.	PP0156M	PP0226M	PP0286M	PP0356M	PP0426M	PP0546M	PP0766M	PP0886M	PP1086M	
Steel number	1.4301	1.4301	1.4301	1.4301	1.4301	1.4301	1.4301	1.4301	1.4301	
Outside diameter (mm)	Measure mean value	15.00	22.05	28.05	34.95	42.08	54.07	76.25	89.25	108.11
	Requirement	15 ± 0.1	22 ± 0.11	28 ± 0.14	35 ± 0.18	42 ± 0.21	54 ± 0.27	76.1 ± 0.38	88.9 ± 0.44	108 ± 0.54
Wall thickness (mm)	Measure mean value	1.05	1.22	1.27	1.58	1.56	1.54	2.08	2.09	2.07
	Requirement	1 ± 0.1	1.2 ± 0.1	1.2 ± 0.1	1.5 ± 0.1	1.5 ± 0.1	1.5 ± 0.1	2 ± 0.15	2 ± 0.15	2 ± 0.15
Length (mm)	Measure mean value	1000	1000	1000	1000	1000	1000	1000	1000	1000
	Requirement	≥1000	≥1000	≥1000	≥1000	≥1000	≥1000	≥1000	≥1000	≥1000
Test results	Passed	Passed	Passed	Passed	Passed	Passed	Passed	Passed	Passed	

Remark(s) :

1. Test results relate only to the specimen tested.
2. Test results of sample comply with the requirement of BS EN 10312 : 2002 Clause 8.8 Table 2.
3. This page no. 1A of test report supersedes page no. 1 of the previous test report of Castco LRN : BC0160622-1-MISL issued on 18 July 2016.

Checked by :



FU HO MAN
Assistant Technical Officer

Certified by :



WONG KA MAN
Laboratory Manager

Test Report
 Hydrostatic Test Welded Stainless Steel Tubes
 (BS EN 10312 : 2002 Clause 11.4.3)

Date of issue : 22 August 2016

Page 2A of 9 page(s)

Castco LRN : BC0160622-1-MISL

Details as supplied by customer

Customer : Dextra Pacific Plumbing Limited

Address : Room 1901, Tung Wai Comm. Bldg., 109 Gloucester Road, Hong Kong

Job title : - -

Sample description : Stainless Steel Pipes

Manufacturer : Shenzhen Artway Piping Company Limited

Brand name : N.U

Body marking : N.U DOUBLE PRESS SUS304 EN10312 SERIES II

Series : 2

Origin : China

Sample submitted by : Dextra Pacific Plumbing Limited

Customer's ref. no. : - -

Contract no. : - -

Laboratory test results

Date of sample received : 22 June 2016

Date of test : 27 to 28 June 2016

Specimen no.	BC0160622-2-MISL	BC0160622-3-MISL	BC0160622-4-MISL	BC0160622-5-MISL	BC0160622-6-MISL	BC0160622-7-MISL	BC0160622-8-MISL	BC0160622-9-MISL	BC0160622-10-MISL
DN (mm)	15	22	28	35	42	54	76.1	88.9	108
Model no.	PP0156M	PP0226M	PP0286M	PP0356M	PP0426M	PP0546M	PP0766M	PP0886M	PP1086M
Steel number	1.4301	1.4301	1.4301	1.4301	1.4301	1.4301	1.4301	1.4301	1.4301
Apply pressure (bar)	50	50	50	50	50	50	50	30	30
Test duration (s)	15	15	15	15	15	15	15	15	15
Observation	No leakage	No leakage	No leakage	No leakage	No leakage	No leakage	No leakage	No leakage	No leakage
Test results	Passed	Passed	Passed	Passed	Passed	Passed	Passed	Passed	Passed
Requirement	The tube shall withstand the test pressure without leakage or visible deformation								

Remark(s) :

1. Test results relate only to the specimen tested.
2. Test results of sample comply with the requirement of BS EN 10312 : 2002 Clause 11.4.3.
3. This page no. 2A of test report supersedes page no. 2 of the previous test report of Castco LRN : BC0160622-1-MISL issued on 18 July 2016.

Checked by :  **FU HO MAN**
 Assistant Technical Officer

Certified by :  **WONG KA MAN**
 Laboratory Manager

Test Report
Tensile Test of Welded Stainless Steel Tubes
(BS EN 10312 : 2002 Clause 11.1)

Date of issue : 22 August 2016

Page 3A of 9 page(s)

Castco LRN : BC0160622-1-MISL

Details as supplied by customer

Customer : Dextra Pacific Plumbing Limited

Address : Room 1901, Tung Wai Comm. Bldg., 109 Gloucester Road, Hong Kong

Job title : - -

Sample description : Stainless Steel Pipes

Manufacturer : Shenzhen Artway Piping Company Limited

Brand name : N.U

Body marking : N.U DOUBLE PRESS SUS304 EN10312 SERIES II

Series : 2

Origin : China

Sample submitted by : Dextra Pacific Plumbing Limited

Customer's ref. no. : - -

Contract no. : - -

Laboratory test results

Date of sample received : 22 June 2016

Date of test : 14 July 2016

Specimen no.	BC0160622-2-MISL	BC0160622-3-MISL	BC0160622-4-MISL	BC0160622-5-MISL	BC0160622-6-MISL	BC0160622-7-MISL	BC0160622-8-MISL	BC0160622-9-MISL	BC0160622-10-MISL	
DN (mm)	15	22	28	35	42	54	76.1	88.9	108	
Model no.	PP0156M	PP0226M	PP0286M	PP0356M	PP0426M	PP0546M	PP0766M	PP0886M	PP1086M	
Steel number	1.4301	1.4301	1.4301	1.4301	1.4301	1.4301	1.4301	1.4301	1.4301	
Total specimen length (mm)	601	602	600	601	601	602	603	601	603	
Area (mm ²)	45.9	84.2	108.5	158.2	193.4	246.3	79.3	86.1	102.2	
0.2% proof (MPa)	Strength	464	417	366	389	370	305	349	297	318
	Requirement	min. 230	min. 230	min. 230	min. 230	min. 230	min. 230	min. 230	min. 230	min. 230
Tensile	Strength	734	697	672	715	703	690	649	671	674
	Requirement	540 to 750	540 to 750	540 to 750	540 to 750	540 to 750	540 to 750	540 to 750	540 to 750	540 to 750
Elongation (%)	Measured value	48.8	49.0	50.0	50.0	48.1	53.3	61.0	56.4	60.9
	Requirement	min. 45	min. 45	min. 45	min. 45	min. 45	min. 45	min. 45	min. 45	min. 45
Test results	Passed	Passed	Passed	Passed	Passed	Passed	Passed	Passed	Passed	

Remark(s) :

1. Test results relate only to the specimen tested.
2. Test results of sample comply with the requirement of BS EN 10312 : 2002 Clause 8.3.
3. This page no. 3A of test report supersedes page no. 3 of the previous test report of Castco LRN : BC0160622-1-MISL issued on 18 July 2016.

Checked by : _____


FU HO MAN
Assistant Technical Officer

Certified by : _____


WONG KA MAN
Laboratory Manager

Form no. : DP_STAINLESS STEEL TUBE_TEN(BSEN10312-2002)_T_dd 24/03/2016

Test Report
Drift Expanding Test of Welded Stainless Steel Tubes
(BS EN 10312 : 2002 Clause 11.2)

Date of issue : 22 August 2016

Page 4A of 9 page(s)

Castco LRN : BC0160622-1-MISL

Details as supplied by customer

Customer : Dextra Pacific Plumbing Limited

Address : Room 1901, Tung Wai Comm. Bldg., 109 Gloucester Road, Hong Kong

Job title : - -

Sample description : Stainless Steel Pipes

Manufacturer : Shenzhen Artway Piping Company Limited

Brand name : N.U

Body marking : N.U DOUBLE PRESS SUS304 EN10312 SERIES II

Series : 2

Origin : China

Sample submitted by : Dextra Pacific Plumbing Limited

Customer's ref. no. : - -

Contract no. : - -

Laboratory test results

Date of sample received : 22 June 2016

Date of test : 16 July 2016

Specimen no.	BC0160622-2-MISL	BC0160622-3-MISL	BC0160622-4-MISL	BC0160622-5-MISL	BC0160622-6-MISL	BC0160622-7-MISL	BC0160622-8-MISL	BC0160622-9-MISL	BC0160622-10-MISL
DN (mm)	15	22	28	35	42	54	76.1	88.9	108
Model no.	PP0156M	PP0226M	PP0286M	PP0356M	PP0426M	PP0546M	PP0766M	PP0886M	PP1086M
Steel number	1.4301	1.4301	1.4301	1.4301	1.4301	1.4301	1.4301	1.4301	1.4301
Specimen length (mm)	25	35	45	55	65	85	115	135	165
Conical mandrel angle (°)	60	60	60	60	60	60	60	60	60
Final outside diameter (mm)	19	28	35	44	53	68	96	112	135
Observation	No crack	No crack	No crack	No crack	No crack	No crack	No crack	No crack	No crack
Test results	Passed	Passed	Passed	Passed	Passed	Passed	Passed	Passed	Passed
Requirement	No crack, break or tearing of the metal shall be visible to the unaided eye								

Remark(s) :

1. Test results relate only to the specimen tested.
2. Test results of sample comply with the requirement of BS EN 10312 : 2002 Clause 11.2.
3. This page no. 4A of test report supersedes page no. 4 of the previous test report of Castco LRN : BC0160622-1-MISL issued on 18 July 2016.

Checked by :  **FU HO MAN**
Assistant Technical Officer

Certified by :  **WONG KA MAN**
Laboratory Manager

End of Report



香港粉嶺安居街33號 33, On Kui Street, Fanling, Hong Kong. Tel : 2677 2138
香港粉嶺安全街29A號 29A, On Chuen Street, Fanling, Hong Kong. Fax: 2677 0351
E-mail: castco@netvigator.com Website: www.castco.com.hk

TEST REPORT
Total Carbon and Sulfur Content in Steel and Iron
[BS EN ISO 15350 : 2010]

Date of issue : 15-08-2013

Page 1A of 3 pages

Castco LRN : MS0130730-1

Sample details as supplied by customer

Customer: Dextra Pacific Ltd.

Customer's Ref. No.: --

Address: Rm1901, Tung Wai Comm. Bldg., 109 Gloucester Road, Hong Kong

Job Title: --

Contract No.: --

Location of Works: --

Sample Description: N.U 304 Stainless Steel. / Brand Name: N.U / Manufacturer: Shenzhen Artway Piping Co., Ltd.

Sample Identification No.: Sample 01

Date Sampled: --

Laboratory test result

Date Received : 30-07-2013

Test Period: 09-08-2013

Chemical Analysis		Results
Total Carbon Content	C %	0.040
Total Sulfur Content	S %	0.0072

- Remark : 1. Test result relates to the specimen tested only.
2. Compliance of the test results to the specification is an opinion of the laboratory and is not covered under the HOKLAS accreditation:
Test results of the specimen comply with BS EN 10088-1:2005(E), Table 3, Grade 1.4301 for Carbon & Sulphur.
British Stainless Steel Association provides grades table as reference information in that Grade 1.4301 is equivalent to Grade 304.
3. This test report supersedes previous test report of Castco LRN: MS0130730-1 issued on 09-08-2013.

Checked by:


LAM SIU PING
Assistant Technical Manager

Form No. CHM STL-CS BS EN ISO 15350 T dd 2/1/2013

Approved Signatory:


LI WAI CHING
Technical Manager

COPY



香港粉嶺安居街33號 33, On Kui Street, Fanling, Hong Kong. Tel: 2677 2138
香港粉嶺安全街29A號 29A, On Chuen Street, Fanling, Hong Kong. Fax: 2677 0351
E-mail: castco@netvigator.com Website: www.castco.com.hk

TEST CERTIFICATE

Chemical Analysis of Steel

[In House Method: ST-Multi-1(ICP-OES)]

Date of issue : 15-08-2013

Page 2A of 3 pages

Castco LRN : MS0130730-1

Sample details as supplied by customer

Customer: Dextra Pacific Ltd.

Customer's Ref. No.: --

Address: Rm1901, Tung Wai Comm. Bldg., 109 Gloucester Road, Hong Kong

Job Title: --

Contract No.: --

Location of Sample in Works: --

Sample Description: N.U 304 Stainless Steel. / Brand Name: N.U / Manufacturer: Shenzhen Artway Piping Co., Ltd.

Sample Identification No.: Sample 01

Date Sampled: --

Laboratory test result

Date Received : 30-07-2013

Test Period: 08-08-2013 to 09-08-2013

Chemical Analysis		Results
Chromium	Cr %	18.61
Copper	Cu %	--
Manganese	Mn %	1.14
Molybdenum	Mo %	--
Nickel	Ni %	8.37
Phosphorus	P %	0.040
Silicon	Si %	0.508
Titanium	Ti %	--
Vanadium	V %	--

Remark : 1. Test results relate to the specimen tested only.

2. Compliance of the test results to the specification is an opinion of the laboratory and is not covered under the HOKLAS accreditation:

Test results of the specimen comply with BS EN 10088-1:2005(E), Table 3, Grade 1.4301 for Chromium, Manganese, Nickel, Phosphorus & Silicon.

British Stainless Steel Association provides grades table as reference information in that Grade 1.4301 is equivalent to Grade 304.

3. This test report supersedes previous test report of Castco LRN: MS0130730-1 issued on 09-08-2013.

Checked by :

LAM SIU PING
Assistant Technical Manager

Form No : CHM In-Hou ST-Multi-1(ICP-OES) T dd 28/3/2011

Approved signatory:

LI WAI CHING
Technical Manager

COPY



佳力高試驗中心有限公司
CASTCO TESTING CENTRE LTD.



香港粉嶺安居街33號 33, On Kui Street, Fanling, Hong Kong. Tel: 2677 2138
香港粉嶺安全街29A號 29A, On Chuen Street, Fanling, Hong Kong. Fax: 2677 0351
E-mail: castco@netvigator.com Website: www.castco.com.hk

TEST REPORT
Nitrogen Content in Steel and Iron
[BS EN ISO 15351 : 2010]

Date of issue : 15-08-2013

Page 3A of 3 pages

Castco LRN : MS0130730-1

Sample details as supplied by customer

Customer: Dextra Pacific Ltd.

Customer's Ref. No.: --

Address: Rm1901, Tung Wai Comm. Bldg., 109 Gloucester Road, Hong Kong

Job Title: --

Contract No.: --

Location of Works: --

Sample Description: N.U 304 Stainless Steel. / Brand Name: N.U / Manufacturer: Shenzhen Artway Piping Co., Ltd.

Sample Identification No.: Sample 01

Date Sampled: --

Laboratory test result

Date Received : 30-07-2013

Test Period: 09-08-2013

Chemical Analysis	Result
Nitrogen Content N %	0.039

- Remark : 1. Test result relates to the specimen tested only.
2. Compliance of the test results to the specification is an opinion of the laboratory and is not covered under the HOKLAS accreditation:
Test results of the specimen comply with BS EN 10088-1:2005(E), Table 3, Grade 1.4301 for Nitrogen, British Stainless Steel Association provides grades table as reference information in that Grade 1.4301 is equivalent to Grade 304.
3. This test report supersedes previous test report of Castco LRN: MS0130730-1 issued on 09-08-2013.

Checked by: _____

LAM SIU PING
Assistant Technical Manager

Approved Signatory: _____

LI WAI CHING
Technical Manager

End of Report

Form No : CHM STL-N_BS EN ISO 15351 T dd 2/1/2013

COPY

Test Certificate
Determination of Hydrostatic Pressure Test of Stainless Steel Pipes and Fittings
[In-house method]

Date of issue : 02 August 2011

Page 1B of 2 page(s)

Castco LRN : DP0110617-022 HYD

Details as supplied by customer :-

Customer : Cadenazzo & Cie Limited

Customer's ref. no. : --

Address : Suite 603, HSH Mongkok Plaza, 802 Nathan Road, Kowloon, H.K.

Contract no. : --

Job title : --

Sample Description : Stainless steel pipes and fittings. (double - press)

Manufacturer : Shenzhen Artway Piping Co. Ltd.

Brand name : N • U

Type	Nominal size (mm)	Type	Nominal size (mm)
Pipe	15	Reducer	54 x 35
Pipe	22	Reducer	67 x 42
Pipe	28	Reducer x 3	67 x 54
Pipe	35	Reducer	76 x 67
Pipe	42	Reducer	108 x 67
Pipe	54	Reducer	108 x 76
Pipe	67	90 degree bend	28
Pipe	76	90 degree bend	42
Pipe	108	90 degree bend	108
Reducer x 2	22 x 15	Tee	42 x 35 x 42
Reducer x 2	28 x 22	Tee	54 x 22 x 54
Reducer x 2	35 x 22	Coupling	28
Reducer	35 x 28	Pipe bridge	22
Reducer x 2	42 x 28	Male BSP x 2	15
Reducer	42 x 35	--	--

Laboratory test result :-

Date of received : 17 June 2011

Date of test : 25 June 2011

Actual internal hydrostatic pressure apply (bar)	Sustain period (min)	Test result
50	60	Passed

Remark(s) : 1. Test result relates only to the specimen tested.
2. The actual internal hydrostatic pressure 50 bar is base on BSEN 10312:2002 clause 11.4.3.

Checked by:

**K.M. WONG**

Certified by:

**CHOI TZE WING**
C. Eng., MHKIB, MICE
Quality Manager

Form No PIP HYD_PRESSURE(IH)_T dt 23/06/2011

香港粉嶺安居街33號 33, On Kui Street, Fanling, Hong Kong. Tel: 2677 2138
香港粉嶺安全街29A號 29A, On Chuen Street, Fanling, Hong Kong. Fax: 2677 0351

E-mail: castco@netvigator.com Website: www.castco.com.hk

Test Certificate
Resistance to Pull-Out Test on Copper and Copper Alloys (Plumbing Fittings)
(BS EN 1254-2 : 1998)

Date of issue : 08 November 2012
Page 1 of 1 page(s)

Castco LRN : DP0121004-006 MISC

Details as supplied by customer :-

Customer : Dextra Pacific Ltd.

Customer's ref. no. : --

Address : Rm1901, Tung Wai Comm. Bldg., 109 Gloucester Road, Hong Kong

Contract no. : --

Job title : --

Description of fittings : DN22 1 no. of Stainless Steel Socket & 2 nos of Stainless Steel Female Screw Thread Connectors
& 2 nos of Stainless Steel Pipes

Nominal diameter : 22 mm

Brand Name : N.U.

Manufacturer : Shenzhen Artway Piping Co., Ltd.

Laboratory test result :-

Date received : 04 October 2012

Date of test : 31 October 2012

Ambient temperature : 23.0 °C

Test force of tensile	(N)	1500
Maintain period	(min)	5
Test result		Passed

Leaktightness test after pull-out

Actual internal hydrostatic pressure apply	(bar)	3
Maintain period	(min)	5
Observation		No leakage
Test result		Passed

- Remark(s) :
1. Test results relate only to the specimen tested.
 2. Test results of the sample comply with the requirement of BS EN 1254-2 : 1998.
 3. This is a reprint of the original test report no. DP0121004-006 and re-issued on 06 December 2012.

Checked by :



FU HO MAN
M

Certified by :



End of Report

CHEUNG CHIN KEUNG
BSc, MSc, DIC, MSc(Eng), MHKIE,
RPE (Civil & Geot)
Director

Form No PIPE COPPER PULL1254 T1 dd 09/11/2010



THE INTERNATIONAL CERTIFICATION NETWORK

CERTIFICATE

CQM as an IQNet Partner hereby states that the organization:

Shenzhen Archung Technology Co.,LTD

Certification Add.: 15th. Floor, Block B, Baohui Building, Baoneng Science Park, No.1, Qingxiang Road, Longhua New District, Shenzhen City, Guangdong, P.R.China

Post code: 518000

for the following scope:

Research & development and production of stainless steel pipes and fittings, research & development and production of building applications product support and electromechanical equipment seismic support

For the subsidiary site and certification scope to the attachment

has implemented and maintains a

Quality Management System

which fulfils the requirements of the following standard:

ISO 9001:2015

Issued on: 2018-01-29

Expires on: 2021-03-08

This attestation is directly linked to the IQNet Partner's original certificate and shall not be used as a stand-alone document

Registration Number: CN-00218Q20620R1M



Alex Stoichitoiu
President of IQNet

Ji XiaoDong
General Manager of CQM



IQNet Partners*:

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THE INTERNATIONAL CERTIFICATION NETWORK

CERTIFICATE

CQM as an IQNet Partner hereby states that the organization:

Shenzhen Archung Technology Co.,LTD

Certification Add.: 15th. Floor, Block B, Baohui Building, Baoneng Science Park, No.1, Qingxiang Road, Longhua New District, Shenzhen City, Guangdong, P.R.China

Post code: 518000

for the following scope:

**Research & development and production of stainless steel pipes and fittings, research & development and production of building applications product support and electromechanical equipment seismic support and related management activities
For the subsidiary site and certification scope to the attachment**

has implemented and maintains a

Environmental Management System

which fulfils the requirements of the following standard:

ISO 14001:2015

Issued on: 2018-01-29

Expires on: 2021-03-08

This attestation is directly linked to the IQNet Partner's original certificate and shall not be used as a stand-alone document

Registration Number: CN-00218E30306R1M



Alex Stoichitoiu
President of IQNet

Ji XiaoDong
General Manager of CQM



IQNet Partners*:

AENOR Spain AFNOR Certification France APCER Portugal CCC Cyprus CISQ Italy
CQC China CQM China CQS Czech Republic Cro Cert Croatia DQS Holding GmbH Germany FCAV Brazil
FONDONORMA Venezuela ICONTEC Colombia Inspecta Sertifiointi Oy Finland INTECO Costa Rica
IRAM Argentina JQA Japan KFQ Korea MIRTEC Greece MSZT Hungary Nemko AS Norway NSAI Ireland
NYCE-SIGE México PCBC Poland Quality Austria Austria RR Russia SII Israel SIQ Slovenia
SIRIM QAS International Malaysia SQS Switzerland SRAC Romania TEST St Petersburg Russia TSE Turkey YUQS Serbia
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CERTIFICATE

CQM as an IQNet Partner hereby states that the organization:

Shenzhen Archung Technology Co.,LTD

Certification Add.: 15th. Floor, Block B, Baohui Building, Baoneng Science Park, No.1, Qingxiang Road, Longhua New District, Shenzhen City, Guangdong, P.R.China

Post code: 518000

for the following scope:

**Research & development and production of stainless steel pipes and fittings, research & development and production of building applications product support and electromechanical equipment seismic support and related management activities
For the subsidiary site and certification scope to the attachment**

has implemented and maintains a

Occupational health and safety Management System

which fulfils the requirements of the following standard:

OHSAS 18001:2007

Issued on: 2018-01-29

Expires on: 2021-03-08

This attestation is directly linked to the IQNet Partner's original certificate and shall not be used as a stand-alone document

Registration Number: CN-00218S10253R1M



Alex Stoichitoiu
President of IQNet

Ji XiaoDong
General Manager of CQM



IQNet Partners*:

AENOR Spain AFNOR Certification France APCER Portugal CCC Cyprus CISQ Italy
CQC China CQM China CQS Czech Republic Cro Cert Croatia DQS Holding GmbH Germany FCAV Brazil
FONDONORMA Venezuela ICONTEC Colombia Inspecta Sertifiointi Oy Finland INTECO Costa Rica
IRAM Argentina JQA Japan KFQ Korea MIRTEC Greece MSZT Hungary Nemko AS Norway NSAI Ireland
NYCE-SIGE México PCBC Poland Quality Austria Austria RR Russia SII Israel SIQ Slovenia
SIRIM QAS International Malaysia SQS Switzerland SRAC Romania TEST St Petersburg Russia TSE Turkey YUQS Serbia
IQNet is represented in the USA by: AFNOR Certification, CISQ, DQS Holding GmbH and NSAI Inc.

* The list of IQNet partners is valid at the time of issue of this certificate. Updated information is available under www.iqnet-certification.com



Contract Title	: <u>Hung Shui Kiu Area 13</u> <u>Phases 1 and 2</u>	Ref. No.	: <u>HCC/281/MS/PLU/014</u>
		Date	: <u>- 5 NOV 2013</u>
		Ref. No. of Previous Submission	: _____
Contract No.	: <u>20120095</u>	(1)	<u>N.U.</u>
File Reference	: <u>HSK/1&2/CW/MA-1/P&D/024(2)</u>	(2)	_____

DETAILS OF SUBMISSION

To : Contract Manager's Representative (Attn: Ms. Peggy Yu, A/16)
via PCOW

From : Hsin Chong Construction Company Limited

The enclosed sample and catalogue* / Product Certificate* / certificate of origin* / technical data* / test report* / job reference* as described below have been checked for compliance with the Specifications and Drawings, and are submitted for approval.

1. General Information

- a. Materials Description : "N.U" Stainless Steel Pipes & Fittings (15mm – 76mm dia.)
- b. Location : For Fresh, Floor Washing & Irrigation Water System for External Area & Common Area
- c. Specification Ref. page : PLU/10 – 12, 28 Item : PLU1.M110.A
PLU1.M190.N
PLU1.M191.N
PLU1.W290.N
- d. Drawing Ref. No. : YL39/1&2/MISC/B/WS-001/A, BLK1/B/WS-007B,
BLK2/B/WS-009B, BLK3/B/WS-011B,
BLK4/B/WS-013B
- e. B.Q. Ref. No. : 4A.8/13+1A-E, 14A & D-P, 15A-Q, 20J-N, 20+1A-E,
21A,21L-M, 22A-L; 4B.8/12A-E & H-V, 18E-N, 19H-P,
19+1A-E; 4C.9/11W-Z, 12A-E & H-U, 18G-P, 18+1A-C,
19G-L, 20A-J; 4D.9/12M-R & U-W, 13A-P, 19D-M,
20E-N, 21A-E; 8A.11/1D-N; 8B.11/1D-K
- f. Anticipated date of approval : a.s.a.p.

2. Technical Information

The submitted sample has been checked against the specification and drawings as listed below –

Specification Requirements	Submitted Sample
a. Brand <u>Not Specified</u>	N,U
b. Country of Origin <u>Not Specified</u>	China
c. Manufacturer's Name & Address <u>Not Specified</u>	Shenzhen Artway Piping Company Limited 1/F, Building 5, Longbi Industrial Area, Jihua Road, Bantian Village, Longgang District, Shenzhen City, Guangdong, P.R.C.
d. Factory's Name & Address(es) <u>Not Specified</u>	Deqing Artway Piping Company Limited No.2, Xitang Factory Area(526600), Guanxu Town, Deqing Count, Zhaoqing City, Guangdong, P.R.C.
e. Supplier(with Applicator, if any) <u>Not Specified</u>	Dextra Pacific Limited 1901, Tong Wai Commercial Building, 109 Gloucester Road, Wanchai, Hong Kong
f. Appearance <u>Not Specified</u>	Refer to Sample

g. Colour⁺ Not Specified	Refer to Sample
h. Specification PLU1.M110.A PLU1.M190.N PLU1.M191.N PLU1.W290.N	Complied with Specification
i. Manufacturer's Catalogue Not Specified	As Attached
j. Test Report (Original/Certified True Copy) Not Specified	As Attached
k. Previous Job Reference Not Specified	As Attached
l. Supplementary Information Nil	Attached WSD Approved Letter & WRAS

For and on behalf of the Contractor


James Chan (QCM)

CONTRACT MANAGER'S COMMENTS

To : Hsin Chong Construction Company Limited
From : Contract Manager's Representative (Attn: Ms. Peggy Yu, A/16)

On the basis of the sample and information given, the above sample submitted is :

(1) * **Approved. with conditions :-**

(2) * ~~Not approved because~~ 1. comments as marked by PCOW shall be fully addressed.

Remarks : 2. Test specimen, valid test reports & certificates shall be submitted before or upon material delivery on site.

Approval does not alter the requirements of the Contract.

Contract Manager's Representative (Attn: Ms. Peggy Yu, A/16)

Date :  11 NOV 2013

c.c. Project Clerk of Works with sample
QS (Langdon Seah HK Ltd.) / (Attn: Ms. Wing Yim)
Contract File (A/16) Attn (Ms. Peggy Yu) File: YL39-1&2/SAM via SA/20, A/87, A120
Designated Unit for BMD () w/e catalogue, certificate of origin and test report

(* Delete if inappropriate)

(+ For glass or vitreous mosaic tiles, the contractor is required to confirm the colour range(s) of the submitted sample, i.e. a) light and/or medium; or b) dark)



MATERIAL SUBMISSION (SAMPLE BOARD SUBMISSION)

Contractor Hsin Chong Construction Company Limited	Contract No 20090101
Norm. Sub Contractor	Submission Date 11/04/2012 09:40
Trade PLU Plumbing	Discipline Building Works - Architectural
To Contract Manager's Rep. Architectural	Submission ID. 145313
Cc Project Site Staff for Building Works	Status Sample Approved

II. Detail Sample Submission

Material Stainless steel Double Press Extrusion Pipe and Fittings	Brand N.U.
Supplier Dextra Pacific Ltd	Manufacturer N.U. Shenzhen Artway Piping Co;Ltd
Ref. No PLU-048	Previous Job Reference HCC/268/MS/AR/0121
Material Particular Stainless steel Double Press Extrusion Pipe and Fittings (grade 304) Size 15-80mm	Material Particular [Dropdown]
Model No. Grade 304	City Shen zhen
Origin China	MFG Address Building 5, longbi Industrial Centre, Bantian Town, Longgang District, Shenzhen City
Manufacturer N.U. Shenzhen Artway Piping Co;Ltd	FTY Address Building 5, longbi Industrial Centre, Bantian Town, Longgang District, Shenzhen City
Factory N.U. Shenzhen Artway Piping Co;Ltd	Colour Refer to sample
BQ Ref. 7.8/12(A3)C-G, 7.8/13(A3)A-L, 7.8/14(A3)A-P	Specification Clause No. Nil
Appearance Refer to sample	Material Used In/Location For fresh/floor washing/irrigation water pipe installation at carport
Drawing No. ST39/-/CPB/B/WS-23, ST39/-/MISC/B/WS-01	Photo Attachment (1)
Test Report Attachment (1)	Others Attachment (6)
Catalogue Attachment (1)	Concrete Mix ID
Concrete Grade	
Grade & Bar Size	

Material Specification is to be stated if alternative material is proposed

Origin	Brand
Manufacturer's Name & Address(es)	Factory's Name & Address(es)
Supplier (with Applicator if any)	Colour
Apperance	Specification
Tests Requirement	Others

Main Contractor's Remark


Remarks

Contract Manager's Representative's Comment

Contract Manager's Representative's Comment

To Main Contractors Site Agent
From A/119 (17/04/2012 19:16)

Comment:

Attachments  (0)

Cancel

本函檔號： HD3-8/WTT(BS) 10/2/20169001
Our Ref.

圖文傳真： 2944 8739
Fax

來函檔號： WM233-20169001/HS/L/2016-C009 & C014R1
Your Ref

電話： 2762 6705
Tel.

Messrs. Shun Cheong Electrical Engineering Co., Ltd.
Block C, 9/F, Hong Kong Spinners Industrial Building
Phase VI, 481-483 Castle Peak Road
Kowloon

日期： 17 November 2016
Date

Dear Sirs,

**Water Supply and Fire Services Term Maintenance Contract
(WTI & TNS Regions) 2016/2017 - 2019/2020
for Housing Authority Estates, Areas and Buildings
Contract No. 20169001**

Global Submission – Material Submission Record (Rev. 01)

I refer to your letter of submission dated 27 October 2016 and subsequent supplementary on 16 November 2016 regarding the captioned issues.

Please be informed that my comments are tabulated as below:

Item	Ref. No.	Descriptions	Brand	Series/Model No.	Comment
1	20169001/C-01A	Galvanized mild steel pipe	Bowling	Medium/Heavy	Acceptable on 03.10.2016
2	20169001/C-01B		Po Sing	Medium/Heavy	Acceptable for use of fire service plumbing system only.
3	20169001/C-01C		SeAH (PSP)	Medium/Heavy	Acceptable on 03.10.2016
4	20169001/C-01D		Towntube	Medium	Acceptable for use of fire service plumbing system only.
5	20169001/C-02A	Galvanized mild steel pipe fittings	MECH	N.A.	Acceptable for use of fire service plumbing system only.
6	20169001/C-02B		Sun Kong	N.A.	Not acceptable on 03.10.2016
7	20169001/C-02C		TM	N.A.	Acceptable on 03.10.2016
8	20169001/C-03A	Galvanized mild steel pipe with internal uPVC lining	Nikken	N.A.	Not acceptable on 03.10.2016
9	20169001/C-03B		Sumitomo	N.A.	Not acceptable on 03.10.2016
10	20169001/C-03C		Cheung Kay	N.A.	Acceptable

房屋署黃大仙、青衣及荃灣區域物業管理辦事處

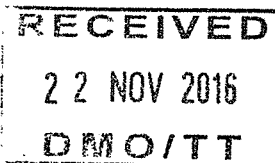
Housing Department, Wong Tai Sin, Tsing Yi and Tsuen Wan Regional Management Office

九龍橫頭磡南道三號香港房屋委員會客務中心第三層B翼

Wing B, Level 3, HKHA Customer Service Centre, 3 Wang Tau Hom South Road, Kowloon.

互聯網網址 Internet Homepage Address: <http://www.housingauthority.gov.hk>

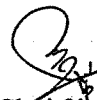
Page 1 of 5



Item	Ref. No.	Descriptions	Brand	Series/Model No.	Comment
11	20169001/C-04A	uPVC pipes and fittings for flush water services	Anchor	in grey color	Acceptable
12	20169001/C-04B		Asahi	in grey color	Acceptable for flush water use only on 03.10.2016
13	20169001/C-04C		Iplex	in white color	Acceptable for flush water use only on 03.10.2016
14	20169001/C-05A	Copper pipe and fittings	Kembla	N.A.	Acceptable
15	20169001/C-05B		Lancen	N.A.	Not acceptable on 03.10.2016
16	20169001/C-05C		Tub-e	N.A.	Acceptable on 03.10.2016
17	20169001/C-06A	Ductile iron pipe and fittings	Bolton	Pipe & fittings	Acceptable on 03.10.2016
18	20169001/C-06B		KEY	Pipe & fittings	Acceptable on 03.10.2016
19	20169001/C-06C		Tyco Water	Pipe	Acceptable
20	20169001/C-07A	Stainless steel pipe and fittings	HKS	N.A.	Acceptable on 03.10.2016
21	20169001/C-07B		N.U	Pipe & fittings	Acceptable
22	20169001/C-07C		SK-I	N.A.	Acceptable
23	20169001/C-08A	Gate valve (Ductile iron)	AVK	#21	Acceptable on 03.10.2016
24	20169001/C-08B		Valvemaker	#16RE	Acceptable on 03.10.2016
25	20169001/C-08C		Waterfront	#223	Acceptable on 03.10.2016
26	20169001/C-08D		Weilong	#3243	Acceptable
27	20169001/C-09A	Globe valve (Cast iron)	CNB	#CN650	Not acceptable on 03.10.2016
28	20169001/C-09B		Toyo	#Fig. 510S	Acceptable
29	20169001/C-09C		Waterfront	#561	Acceptable on 03.10.2016
30	20169001/C-10A	Non return valve, swing type (Cast iron body)	Valvemaker	BS EN12334	Not acceptable on 03.10.2016
31	20169001/C-10B		Waterfront	#654	Acceptable on 03.10.2016
32	20169001/C-11A	Non return valve, recoil type (All stainless steel)	Apco	Series 300	Not acceptable as no test report and WSD approval letter submitted.
33	20169001/C-11B		Empire	Fig.#290	Acceptable on 03.10.2016
34	20169001/C-11C		Valmatic	Series 1400	Not acceptable as test report and WSD approval letter have on expiry.
35	20169001/C-12A	Non return valve, recoil type (Cast iron body)	Mity	#150	Acceptable
36	20169001/C-12B		Valmatic	#1400	Not acceptable on 03.10.2016


However, you are reminded that our approval would not release your responsibility to comply with the contract requirements.

Yours faithfully,



(CHAN Chui-ying, Ronald)
Maintenance Surveyor / Wong Tai Sin, Tsing Yi
and Tsuen Wan (Special Projects)
for Contract Manager

c.c. SBSE/WTT, BSE/TT
MS/NSS, MS/TT, MS/TW, MS/TWS, MS/WTT
PSAU in WTT region via PSM/S(HK13)
SCW/S(WTT5), ~~SCW/TT~~, SCW/TW, SCW/TWS
File via SMS/WTT, MS/WSP

 24/11/2016

→ CW/TT1
CW/TT2

Equipment & Materials Submission / Approval Form



Project: Proposed Hotel Development at China Resources Headquarter, Hong Kong

Contract / Subcontract: PD Installation

Sheet 1 **of** 1

SUBMISSION BY: Mr. Andy Sze
(For And On Behalf Of CR Construction Company Limited)

Date: 15/10/2016 REF: HCR/CSF/PD/EMS/BS/0768

REPLY BY: Mr. Jason Cheung/ Mr. Jonathan Yeung
(For And On Behalf Of Meinhardt M&E Ltd)

Date: 11/11/2016 REF: ME1814-M-H-068

	NAME	FAX	SUBMISSION / ENCLOSURE	REPLY / ENCLOSURE
Project Manager	CRPL - Mr. Terence Fung	2827 6166	<input type="checkbox"/> Y / N	<input checked="" type="checkbox"/> Y / N
Architect	DLN - Ms. Venus Chan	2576 4074	<input type="checkbox"/> Y / N	<input checked="" type="checkbox"/> Y / N
Structural Engineer	JMK - Mr. Tony Chau	2579 8181	<input type="checkbox"/> Y / N	<input checked="" type="checkbox"/> Y / N
Main Contractor	CRCC - Mr. Andy Sze	2827 2921	<input checked="" type="checkbox"/> Y / N	<input checked="" type="checkbox"/> Y / N
Q.S.	L&S - Ms. Miranda Cheung	2576 0416	<input type="checkbox"/> Y / N	<input checked="" type="checkbox"/> Y / N
Others			<input type="checkbox"/> Y / N	<input type="checkbox"/> Y / N

Approval means that the submission complies with the design intent, It dose not release the Contractor / Sub-contractor from his responsibility to check that equipment, materials, capacities, ratings, dimensions, etc., are suitable for site conditions, are in accordance with the Specification and design drawings, and are complying with all statutory requirements of the authorities having jurisdiction over the installations.

STATUS * A - Approved / Technically acceptable

B - Approved / Technically acceptable subject to complying with additional remarks indicated here or on the catalogue

C - Disapproved / Technically not acceptable

CONTRACTOR'S SUBMISSION			MEINHARDT'S REPLY	
ITEM / MAKE / MODEL	TENDER OFFER	REASON FOR DEVIATION?	STATUS*	ADDITIONAL COMMENTS
Pumped waste pipe (For Main Block 7-9/F)	NU	N/A	A	

Remarks of Contractor/Meinhardt (delete as appropriate)



水務署
Water Supplies Department
香港灣仔告士打道七號入境事務大樓43樓
43/F, Immigration Tower, 7 Gloucester Road, Wan Chai, Hong Kong

電子郵遞
e-mail wsdinfo@wsd.gov.hk

電話
Telephone 2824 5000

傳真
Reference 0156462075 of 0156427128

圖文傳真
Facsimile 2802 7333

1 June 2012

GOLDEN DAY ENGINEERING CO LTD
FLAT A, 14/F, JUSTEN CENTRE
46-52 WAI CHING STREET
YAU MA TEL, KOWLOON

19 JUL 2012

ASN: 2536300882

Dear Sir/Madam,

**Approval of Water Supply at
Development of Mei Tin Estate (Phase 4), Shatin Area 4C
Heung Fan Liu Street, Tai Wai, Sha Tin**

I refer to your letter ref.: WWO/976/SC dated 16 May 2012 from Golden Day Engineering Co., Ltd. together with the catalogue/reference information for carport building of the captioned premises.

The submitted catalogue of "N.U" stainless steel pipe / fitting have been checked and found generally acceptable.

Please note that there is no objection to the use of the stainless steel grooved joints as fresh water inside services in this project subject to full adherence to waterworks installation requirements. But this approval should not be taken as a precedent case for other projects. The use of the same or similar stainless steel grooved joints in other projects should have prior approval of this Department. This Department reserves the right to reject the use of the aforesaid stainless steel grooved joints if they are found afterwards not suitable for the use as inside services in terms of quality or unacceptability of materials.

For any enquiry, please contact our Duty Consumer Services Inspector at 2152 5682 for details.

Yours faithfully,

(CHIU Man Fat)
for Water Authority

To: HOUSING AUTHORITY
Fax No. 3152 2030

CC: GOLDEN DAY ENGINEERING CO LTD

Equipment & Materials Submission / Approval Form

MEINHARDT

ME1630 (K20) H.

Project: Urban Renewal Project at Castle Peak Road/ Cheung Wah Street, N.K.I.L. No. 6489 Sham Shui Po, Kowloon K20

Contract / Subcontract: Chun Wo Construction & Engineering Co., Ltd.

Sheet 1 of 1

11/03/2015

SUBMISSION BY: Kocher Wong
(For And On Behalf Of Chun Wo Construction & Engineering Co., Ltd)

DATE: 6/3/2015 **REF:** CW/709/BS/MAT/0349a

REPLY BY: S.H. Lau
(For And On Behalf Of Meinhardt M&E Ltd)

DATE: 18/3/2015 **REF:** K20-PD-M-133

	NAME	FAX	SUBMISSION / ENCLOSURE	REPLY / ENCLOSURE
Project Manager	HKHS-Mr.H.S.Chum/ Mr. Hassan Curreern	2882 8630	<input checked="" type="checkbox"/> Y/N	<input checked="" type="checkbox"/> Y /N
Architect	DLN- Mr. Henry Lau King-chiu SYW-Mr. Perry Cheung/	2576 4074	<input checked="" type="checkbox"/> Y/N	<input checked="" type="checkbox"/> Y /N
Structural Engineer	Mr. K.K.Sin	2741 9466	<input checked="" type="checkbox"/> Y/N	<input type="checkbox"/> Y/N
Main Contractor	CW - Kocher wong LS-Mr. William Fong /	2743 3737	<input type="checkbox"/> Y/N	<input checked="" type="checkbox"/> Y /N
Q.S.	Ms. Carrie Tam Annie Tse	2576 0416	<input type="checkbox"/> Y/N	<input type="checkbox"/> Y/N
Others	BSI- philip cheung	2741 9466	<input type="checkbox"/> Y/N	<input checked="" type="checkbox"/> Y /N

Approval means that the submission complies with the design intent. It does not release the Contractor / Sub-contractor from his responsibility to check that equipment, materials, capacities, ratings, dimensions, etc., are suitable for site conditions, are in accordance with the Specification and design drawings, and are complying with all statutory requirements of the authorities having jurisdiction over the installations.

STATUS * A - Approved / Technically acceptable

B - Approved / Technically acceptable subject to complying with additional remarks indicated here or on the catalogue

C - Disapproved / Technically not acceptable

CONTRACTOR'S SUBMISSION

MEINHARDT'S REPLY

ITEM / MAKE / MODEL	TENDER OFFER	REASON FOR	STATUS*	ADDITIONAL COMMENTS
Material Ref: PD-M075A Description: PE foamed stainless steel pipes and fittings grade SS304 Standard: EN10312 series II Brand Name/Origin: "N.U." / China Model:	"HKS" or "SK-I" or equivalent	as stated		① for cleansing water system of tower and podium. B ② Resubmission is not required.
Location: 1) for cleansing water system of tower portion 2) for irrigation system of podium floors				
Remarks of Contractor/Meinhardt (delete as appropriate)				



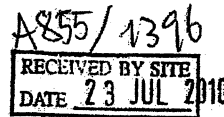
ARCHITECTURAL SERVICES DEPARTMENT 建築署

QUEENSWAY GOVERNMENT OFFICES, 66 QUEENSWAY, HONG KONG. 香港金鐘道六十六號金鐘道政府合署

Tel: 2867 3495

Fax: 2868 4562

Our reference: ASD62/5549/SST326/C50/530



Date: 23 July 2010

By Post and Fax no. 2676 7966

Wan Chung Construction Co., Ltd.

Flat 2A, Fuk On Building

1123 Canton Road,

Mongkok, Kowloon

(Attn: Mr. Frederick S.C. So / Sunny Ngan)

Dear Sirs,

Contract No. SS T326

Re-provisioning of Wo Hop Shek Crematorium at

Kiu Tau Road, Wo Hop Shek, Fanling, New Territories

Materials Re-Submission for Plumbing and Drainage Installation

(PWP No. 13NB)

Referring is made to your letter ref.:A855/PBSE211/1665/10 dated 5 July 2010 regarding material re-submission for plumbing and drainage installation of the captioned project. Please be advised of our comments as below: -

- (i) The supplementary information for the stainless steel 316 pipe to BSEN 10312 series II, (NU Duopress / PRC) is found in order.
- (ii) The submitted guide rail type submersible pumps, 'HOMA' of Germany model no. TP50M37/2D for sump pit no. 1, TP50M23/2D for sump pits no. 2, 3 & 4, MX1330-T72 for sump pit no 5 are found technically in order.
- (iii) The proposed epoxy coated cast iron pipes and fittings to EN877 will not be adopted for the aboveground drainage. uPVC pipes and fittings shall be used for the aboveground drainage system as specified.

Yours faithfully,

Lee Wai Kong

(W.K. Lee)

for Chief Architect/1
Architectural Services Department

c.c. PM341

PA - Mr. Andrew Nam

PCOW - Mr. Yau Tin-shing

WKC/WKL

**ARCHITECTURAL SERVICES DEPARTMENT 建築署**

QUEENSWAY GOVERNMENT OFFICES, 66 QUEENSWAY, HONG KONG. 香港金鐘道六十六號金鐘道政府合署

By Post & Fax
(Fax. No. 2770 6065)

Our Ref. : ASD (BS)62/8184/SSD512/C50/530
Tel. No. : 2867 4159
Fax. No. : 2868 4562

Date: 31 March, 2017

New City Construction Company Limited
Flat A&B, 1/F, Pilkem House,
45-51 Pilkem Street, Jordan,
Kowloon, Hong Kong

(Attn.: Mr. Tony Lau, Project Manager)

Dear Sirs,

Contract No. SS D512 (Programme No. 450 RO)
Construction of Tsun Yip Street Playground as
Kwun Tung Industrial Cultural Park
(Material Submission for Plumbing Installation)

With reference to your letter dated 7 February, 2017 ref. R5591/SSD512/TYS/BS/PL/LT-018 regarding submission of "Stainless Steel Pipe and Fitting (N.U.)", I have no further comment, provided that:

- The proposed stainless steel pipe and fitting shall be provided in compliance with the General and Particular Specifications, and the statutory requirements.
- Your submitted certificates and catalogue are still valid.

Yours faithfully,

(M. W. WU)
Project Building Services Engineer
for Chief Architect /1
Architectural Services Department

Encl.

c.c.	PA (Ms. Vivian Ho, A/101)	w/e	
	PBSI (Mr. Louis Leung, BSI/D/3)	w/e	
	PCOW (Mr. C.W. Leung, CW/33)	w/e	Post & Fax (No. No. 3568 1982)

KH/MWW

SUBMISSION AND APPROVAL FORM

Contract Title : Construction of Tsun Yip Street Playground as Kwun Tong Industrial Culture Park	Ref. : SSD512-TYS-BS-PL-LT-018
	Date : 9-02-2017
Contract No : SS D512	Ref. of Previous Submission
	(1) :
	(2) :

DETAILS OF SUBMISSION

To : Architectural Services Department Attn : Mr. M.W. Wu (Project Building Services Engineer)

From (Company) : New City Construction Co Ltd From (Name) : Mr. Tony Lau

The enclosed Material-Equipment-Shop Drawings as described below have been checked for compliance with the Specifications and Drawings, and are herewith submitted for approval.

1. Equipment-Material-Shop Drawings Description	: <u>Stainless Steel Pipe and Fitting to BS EN10312</u>
2. Location	: <u>Drinking Fountain</u>
3. Brand Name	: <u>N.U.</u>
4. Manufacturer	: <u>Shenzhen Artway Pipeing Company Limited</u>
5. Source of Origin	: <u>China</u>
6. Supplier	: <u>Dextra Pacific Plumbing Limited</u>
7. Supplier Address	: <u>Suite 1901, Tung Wai Comm. Bldg., 109 Gloucester Road, H.K.</u>
8. Catalogue	: <u>Attached</u>
9. Test Report	: <u>Attached</u>
10. Job Ref.	: <u>Attached</u>
11. Anticipated date of approval	: <u>28-Feb-17</u>

Submitted by:


Authorized Signature

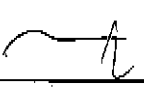
cc ASD - PA - Ms. Vivian W.Y. HO
Site - PCOW - Mr. LEUNG Chi-wing]
Site - PBSI - Mr. Louis LEUNG

COMMENTS

- (A) Approval
- (B) Approval with comments as noted
- (C) Not approved and resubmission required.

Comment: Please refer to the corresponding letter dated 31.3.2017

Approved by Project Architect-Project Structural Engineer-Project Building Services Engineer-Project Landscape Architect


Name : M. W. Wu

Date : 31.3.2017

* Delete as appropriate



Drainage Services Department
Sewage Treatment Division 2
Stonecutters Island Sewage Treatment Works,
Ngong Shung Road, Ngong Shuen Chau,
Kowloon, Hong Kong.

渠務署
污水處理部
香港 九龍 昂船洲 昂船路
昂船洲污水處理廠

來函檔號 Your Ref: VG-15908-S-008/008-R1
本署檔號 Our Ref: () in DSD ST2 (2013T042)
電話 Tel: 2195 3423
傳真 Fax: 2991 4233

傳真號碼 Fax No.: 2191 4012
本函以傳真方式送遞 Sent By Fax

22 January 2014

Pegasus Greenland Ltd.

Unit 818-819, 8/F., New Commerce Centre,
19 On Sum St., Shatin
Hong Kong

(Attn : Mr. Kevin KUA)

Dear Sir,

**Upgrading of landscaping and greening works at
Ngong Ping Sewage Treatment Works
Quotation Ref. 2013T042**

Submission – Irrigation Pipe

I refer to your document submission with ref.: VG-15908-S-008 & VG-15908-S-008-R1 dated 8.1.2014 and 22.1.2014 respectively, regarding the captioned. Our comments are written below for your attention and follow:-

1) Irrigation Pipe (VG-15908-S-008/008-R1)

- | | <u>Brand & Model</u> |
|-----------------------------------|--|
| (i) N.U. 316 Stainless Steel Pipe | Artway Piping (Shenzhen) Co. Ltd - DN50 |
| (ii) Drip Pipe | DiG - EXCEL Green-line Series) PC Dripline |

The aforesaid items are approved in principle subject to the compliance with the tender specification. In addition, you shall proceed the procurement of equipment and submit the material on site the soonest. Should you have any enquiry, please contact our Mr. WONG Kwok-hung at 2195 3384 or the undersigned.

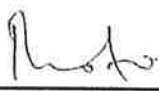

Yours faithfully,

(Suker SO)
Engineer's Representative
Sewage Treatment 2
Drainage Services Department

c.c. via e-mail:
CTO/ST2/3, SMI/ST2/3, AMI/ST2/3/1, LA/HQ1



**J3588 – Main Contract for Murray Building Hotel Development
at Cotton Tree Drive, Hong Kong on Inland Lot No. 9036
MATERIAL / SAMPLE SUBMISSION FORM**

To: Ms. Sue Ling Wong & Ouyang (HK) Limited 27/F Dorset House Taikoo Place 979 King's Road Hong Kong	No. : MAT/BS/HVAC/034 Rev.1
	Ref : J3588/304.6/D 01151
	Date : 15 September 2015
EXPECTED REPLY DATE: 22 September 2015	
We submit the following material for your comment / approval by the date indicated above.	
Trade: HVAC	
Material Description: SS304 Pipe & Fittings (AC-036)	
<input checked="" type="checkbox"/> Comply fully w/Specification M20.4.66 <input type="checkbox"/> Not comply fully with Specification (Deviation listed herein)	
Brand Name: Nu	Model No.: Refer to the attachment
Source of Origin: PRC	Manufacturer: Nu
Drawing Ref :	N/A
Location for use: Cooling Tower Plant (Cooling Tower Make Up Water Pipe)	
Enclosures: <input type="checkbox"/> Catalogue <input type="checkbox"/> Data / Specification <input type="checkbox"/> Certificate <input type="checkbox"/> Test Report <input type="checkbox"/> Material Sample <input type="checkbox"/> Installation Drawing <input type="checkbox"/> Job Reference <input type="checkbox"/> Schedule <input checked="" type="checkbox"/> Other: Certificate letter	
Remarks: Enclosed with the certificate letter to substantiate the compression fitting complied with BS4386:Part 3	
	
Photo Cheng Senior Project Manager Gammon Engineering & Construction Company Limited PC/PY/HG/SL/by Encl.	
*A - Architectural *S - Structural *BS - Building Services *ID - Interior Design	
Architect's / Consultant's Reply <input type="checkbox"/> Approved (A) <input checked="" type="checkbox"/> Approved with comment (B) <input type="checkbox"/> Rejected (C)	
Comments : No adverse comment. Valid water certification shall be provided for WWO 46 submission and inspection.	
Signed by: 	Designation : Panda Shek Date : 19 / 10 / 2015



P & T (M & E) Limited

33/F, 633 King's Road
North Point
Hong Kong
Tel : 28360002
Fax: 28360132

E-MAILED
19-4-2017 HY jc

APPROVAL SHEET

(Form No. SF-01 Rev. 1)

By Hand and E-mail

Date : 13-4-2017

Ref. No. : 8616/31(ME)/ PD 104

To : Chun Wo Construction & Engineering Co. Ltd.
 Attn : Mr. Michael Leung / Mr. Wong Bo Fat (site.st36c@chunwo.com)

Re : Subsidized Sale Flats Project at Shatin Area 36C
 [Plumbing & Drainage] Installation

We refer to your captioned submission dated 16/03/2017 ref. CW/844/M&E/MAT/0311 enclosing the following and would like to advise as follows :-

Equipment / Material	Manufacturer	Model	Origin	Comment *
Stainless Steel Pipe and Fitting (BS EN 10312 Grade 304 for Aboveground) & (BS EN 10312 Grade 304 for Underground)	Shenzhen Artway Piping Company Ltd.	Refer to attachment	China	A

The above comments should be read in conjunction with P&T (M&E) Ltd.'s General Notes on Vetting of Contractor's Submittal (Form No. SF-03 Rev. 1).

- Please refer to attached sheet for additional comments (total sheets).
- A set of same marked with our comments / duly endorsed is now returned herewith for your easy reference and necessary action.

Encl.

Copy to :		w/encl
<input checked="" type="checkbox"/> HKHS (PMS)	- Ms. H.S. Chum	<input checked="" type="checkbox"/> hschum@hkhs.com
<input checked="" type="checkbox"/>	- Ms. Helen Chau	<input checked="" type="checkbox"/> kkhelenchau@hkhs.com
<input checked="" type="checkbox"/>	- Mr. K. C. Tse	<input checked="" type="checkbox"/> kctse@hkhs.com
<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/> pri.st36c@hkhs.com
<input checked="" type="checkbox"/> HKHS (CMS)	- Mr. Franki Yeung	<input checked="" type="checkbox"/> frankiyeung@hkhs.com
<input checked="" type="checkbox"/>	- Ms. Rita Chung	<input checked="" type="checkbox"/> rita@hkhs.com
<input checked="" type="checkbox"/>	- Mr. Jason Tang	<input checked="" type="checkbox"/> ckiasontang@hkhs.com
<input checked="" type="checkbox"/> Chung Wah Nan	- Mr. Wilbert Ching	<input checked="" type="checkbox"/> wilbert.ching@cwnal.com.hk
<input checked="" type="checkbox"/>	- Mr. Donny Chan	<input checked="" type="checkbox"/> donnyschan@cwnal.com.hk
<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/> st36c1@cwnal.com.hk
<input checked="" type="checkbox"/> PTSE	- Mr. Roy Woo / Mr. Gary Ng	<input checked="" type="checkbox"/> pt4873se@p-t-group.com
<input type="checkbox"/> PTSE (AECOM)	- Mr. Andy Ko	<input type="checkbox"/> andy.h.ko@aecom.com
<input checked="" type="checkbox"/> RLB	- Ms. Lavinia Lam	<input checked="" type="checkbox"/> rlb-sshps36c@hk.rlb.om
<input type="checkbox"/> Ramboll Environ	- Mr. Andy Cheung	<input type="checkbox"/> acheung@ramboll.com
<input type="checkbox"/> Earthasia	- Mr. Philip Leung	<input type="checkbox"/> philip.leung@earthasia.com.hk
	- Mr. Franky Guo	<input type="checkbox"/> franky.guo@earthasia.com.hk
<input checked="" type="checkbox"/> COW	- Mr. Kenny Chon	<input checked="" type="checkbox"/> Kennychon36C@gmail.com
<input checked="" type="checkbox"/> ACOW	- Mr. C.C.Lo	<input checked="" type="checkbox"/> cwnal.acowst36c@gmail.com
<input checked="" type="checkbox"/> BSI	- Mr Alan Leung	<input checked="" type="checkbox"/> alan.leung@p-t-group.com
<input checked="" type="checkbox"/> ABSI	- Mr Joe Cheung	<input checked="" type="checkbox"/> joe.cheung@p-t-group.com
	- Mr Wilson Lam	<input checked="" type="checkbox"/> wilson.lam@p-t-group.com
<input checked="" type="checkbox"/> RSS	-	<input checked="" type="checkbox"/> st36crss@gmail.com

SIGNED : CM / KML / KSS

**FOR
P & T (M & E) Limited**



俊和建築工程有限公司

CHUN WO CONSTRUCTION & ENGINEERING CO.,LTD.

(Subsidiary of Chun Wo Development Holdings Limited)

P & T (M&E) Ltd.

File No. 8616

21-3-2017

DY ___ SL ___ CM ___ WYL ___

KPY ___ KML ___ CWL ___ VC ___

SCW ___ KHY ___ HP ___ WHY ___

ESS

Action By: _____ Date: _____

E-file name: _____

Attachment: _____

SCAN & ARCHIVE SCAN & DISPOSE
 DUPLICATED COPY DISPOSE

By hand & email

Your reference :

Our reference : CW/844/1454-2017

16 March 2017

P&T (M&E) Ltd

29/F, 633 King's Road,
North Point, Hong Kong

Attn: Ir. Clarence Mak / Mr. Sam Siu

Dear Sir,

Main Contract for Subsidized Sale Flats Project at Shatin Area 36C
Material and Equipment Submission (M&E) – Plumbing & Drainage Installation – Stainless Steel Pipe and Fitting (BSEN 10312 Grade 304)

Please find attached the material and equipment submissions reference No., CW/844/M&E/MAT/0311 for your comment and approval.

Should you have any query, please feel free to contact the undersigned or our Mr. Harry Lui at 9625 3598

Yours faithfully,

For and on behalf of

Chun Wo Construction & Engineering Co., Ltd

Wong Bo Fat

Deputy Project Manager

		w/e/h	w/e/s	w/o
c.c.	HKHS (CMS)	-	Mr. Franki Yeung / Mr. Jason Tang / Ms. Rita Chung	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>
	HKHS (PJS)	-	Mr. H.S. Chum / Ms. Helen Chau / Mr. K.C. Tse / Mr. Philip Chong	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>
	CWN	-	Mr. Wilbert Ching / Mr. Donny Chan / Mr. Woody Leung / Mr. Nai Ng	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>
	P&T (SE)	-	Mr. Roy Woo / Mr. Wilson Li	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
	AECOM	-	Mr. Andy Ko / Mr. Raymond Wong / Mr. Harry Chau	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
	RLB	-	Mr. Patrick Chan / Ms. Lavinia Lam	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
	Earthasia	-	Mr. Philip Leung / Mr. Franky Guo	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
	Ramboll Environ	-	Mr. Andy Cheung / Ms. Carmen Cheung / Mr. Daniel Lee	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
	COW / ACOW	-	Mr. Kenny Chon / Mr. C.C. Lo / Mr. S.C. Hui / Mr. Jason Yan	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
	RE / ARE	-	Mr. Patrick Wong / Mr. Augustine Yuen / Mr. Raymond Ma	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
	BSI / ABSI	-	Mr. Alan Leung / Mr. Joe Cheung	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>
	Site Office			<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>
	Head Office			<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>



香港九龍長沙灣大南西街601至603號香港紗廠工業大廈一期五樓C座
5C, Hong Kong Spinners Industrial Building Phase 1,
601 - 603 Tai Nan West Street, Cheung Sha Wan, Kowloon, Hong Kong
Tel: (852) 3758 8711 Fax: (852) 2744 6937





HONG KONG HOUSING SOCIETY PROJECT

MAIN CONTRACT FOR SUBSIDIZED SALE FLATS PROJECT AT SHATIN AREA 36C

俊和建築工程有限公司
CHUN WO CONSTRUCTION & ENGINEERING CO., LTD.

MATERIAL & EQUIPMENT SUBMISSION / APPROVAL FORM (M&E)

Ref. No.: CW/844/M&E/MAT/0311

Submission Date: 16/3/2017

To: P&T (M&E) Ltd.

Attn. Ir. Clarence Mak / Mr. Sam Siu

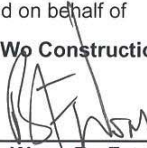
Details of Submission

* The enclosed sample, catalogue, technical data and test report as described below have been checked for compliance with the specification and Drawings, and herewith submitted for approval.

a)	Material Description :	Stainless Steel Pipe and Fitting (BS EN 10312 Grade 304 for Aboveground) & (BS EN 10312 Grade 304 for Underground)
b)	Specification Ref.:	G.S. (P.D.) Section 3.2.1 i), j), k) and SA/6
c)	Drawing Ref. No:	All Plumbing Layout Drawing
d)	BQ Ref.:	Schedule No. 6.8.1/12 Plumbing and Drainage Installation
e)	Location:	Cleansing and Irrigation Water System for Whole Project
f)	Brand Name:	N.U.
g)	Manufacturer:	Shenzhen Artway Piping Company Ltd.
h)	Source of Origin:	China
i)	Supplier:	Dextra Pacific Plumbing limited
j)	Catalogue:	Attached
k)	Technical Data:	Attached
l)	Test Report:	Attached
m)	Job Reference:	Attached
n)	Required Approval Date:	30/3/2017
o)	Sample:	N/A
p)	Remarks:	N/A

For and on behalf of

Chun Wo Construction & Engineering Co., Ltd.


Name: **Wong Bo Fat (Deputy Project Manager)**

Reply from: P&T Architects and Engineers Ltd.

* On the basis of the sample / information given, the above item submitted is:

1) Approved

2) Approved, subject to conditions

3) Not approved, because of reason:

Remark

① Sample submission is required.

② pipes shall be PE foam coated.

Remarks:

Approval does not alter the requirements of the Contract unless specifically noted.

Representative Signature

Date:

Position: Director / Associate Director

Encl.

c.c. HKHS CWN P&T (SE) AECOM RLB Earthasia Ramboll Environ
 COW RE BSI Head Office Site Office




MAIL TYPE
Workflow Transmittal

MAIL NUMBER
ATKINSHK-WTRAN-025551

REFERENCE NUMBER
ATKINSHK-WTRAN-025551

Final (WF-012978) MSB_BSE__0183 BPD-MSU-0183-DCT (Rev.01) N.U. DN100 & DN200 Stainless Steel Rainwater Pipe for RDE Building (Resubmission) (WF-011784)

From Mr Anthony Tang - Atkins China Ltd
 To (11) Eric Leung - Arup Group (+10 more...)
 Cc (63) Mr Matt Brook - Advisian Limited (Hong Kong) (+62 more...)
 Sent Tuesday, 1 August 2017 4:46:06 PM HKT (GMT +08:00)
 Status N/A

DOCUMENT ATTACHMENTS (1)

(0 selected)						
File	Document No	Revision	Revision Date	Title	Status	
	3A39B-HCC-BPD-MSU-0183-DCT	01	15/07/2017	N.U. DN100 & DN200 Stainless Steel Rainwater Pipe for RDE Building (Resubmission)	Approved with comments, resub. not req'd	

ATTRIBUTES

Attribute 1 BSE-BPD
 Attribute 2 M+ RDE (3A39B)

MESSAGE

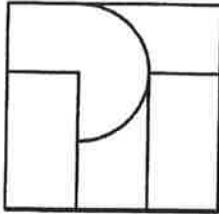
Workflow Review History

The attached documents have completed the "MSB_BSE__0183 BPD-MSU-0183-DCT (Rev.01) N.U. DN100 & DN200 Stainless Steel Rainwater Pipe for RDE Building (Resubmission) (WF-011784)" workflow with the following results :

This transmittal was automatically generated.

Doc No	Step	Participant	Review Outcome	Comments
--------	------	-------------	----------------	----------

3A39B- HCC-BPD- MSU-0183- DCT	PMC/RSS	S Kung	No Comments	MJV please comment/review
	MJV review	E Leung	No Comments	Refer to RSS comments.
	PMC/RSS final	A Tang	B-Notice of No- Obj,subj to comment no resub. req.	Installation should strictly follow MJV's comments on the pipework and related installation details, (WF-011892); Sample of pipework shall be submitted separately once finishing or color code is confirmed by MJV.



P & T (M & E) Limited

33/F, 633 King's Road
North Point
Hong Kong
Tel : 28360002
Fax: 28360132

APPROVAL SHEET

(Form No. SF-01 Rev. 1)
By Hand and E-mail

Date : 15/11/2017

Ref. No. : 8694/31(ME)/ PD016

To : Aggressive Construction Company Limited
 Attn : Andy Chow (andychow@ghg.com.hk / a202_site@ghg.com.hk)

Re : Subsidized Sale Flats Project at Tseung Kwan O Area 73A
 [Plumbing & Drainage] Installation

We refer to your captioned submission dated 23/10/2017 ref. AGG-A202-MAT-00068 enclosing the following and would like to advise as follows :-


<u>Equipment / Material</u>	<u>Manufacturer</u>	<u>Model</u>	<u>Origin</u>	<u>Comment *</u>
Stainless Steel Tube and Fittings	N.U	BSEN 13012 (Series II) Grade 304	PRC	B

The above comments should be read in conjunction with P&T (M&E) Ltd.'s General Notes on Vetting of Contractor's Submittal (Form No. SF-03 Rev. 1).

- Please refer to attached sheet for additional comments (total _____ sheets).
- A set of same _____ marked with our comments / duly endorsed _____ is now returned herewith for your easy reference and necessary action.

Encl.

Copy to :		w/encl
<input checked="" type="checkbox"/> HKHS (PJS)	- Mr. H.S. Chum	<input checked="" type="checkbox"/> hschum@hkhs.com
<input checked="" type="checkbox"/>	- Mr. Engelbert Wong	<input checked="" type="checkbox"/> cpengelbertwong@hkhs.com
<input checked="" type="checkbox"/>	-	<input checked="" type="checkbox"/> pri.tko73a@hkhs.com
<input checked="" type="checkbox"/> HKHS (CMS)	- Mr. Franki Yeung	<input checked="" type="checkbox"/> frankiyeung@hkhs.com
<input checked="" type="checkbox"/>	- Ms. Rita Chung	<input checked="" type="checkbox"/> rita@hkhs.com
<input checked="" type="checkbox"/>	- Mr. Jason Tang	<input checked="" type="checkbox"/> ckjasontang@hkhs.com
<input checked="" type="checkbox"/> HKHS (Site)	- Mr. Eric Pong	<input checked="" type="checkbox"/> eric@hkhs.com
<input checked="" type="checkbox"/> DLN	- Mr. Eric Tam	<input checked="" type="checkbox"/> et@dln.com.hk
<input checked="" type="checkbox"/>	-	<input checked="" type="checkbox"/> n1866-h@dln.com.hk
<input checked="" type="checkbox"/> MCS	- Mr. Edwin Tung	<input checked="" type="checkbox"/> edwintung@meinhardt.com.hk
<input checked="" type="checkbox"/>	- Mr. Ken Chu	<input checked="" type="checkbox"/> kenchu@meinhardt.com.hk
<input checked="" type="checkbox"/>	-	<input checked="" type="checkbox"/> cs1692@meinhardt.com.hk
<input checked="" type="checkbox"/> RLB	- Mr. Kenneth Kwan	<input checked="" type="checkbox"/> kenneth.kwan@hk.rlb.com
<input checked="" type="checkbox"/>	- Mr. Andrew Lo	<input checked="" type="checkbox"/> andrew.lo@hk.rlb.com
<input checked="" type="checkbox"/>	-	<input checked="" type="checkbox"/> rlb-tko73a@hk.rlb.com
<input type="checkbox"/> Urbis	- Ms. Iris Ho	<input type="checkbox"/> iris@urbis.com.hk
<input type="checkbox"/>	- Ms. Dhany Kusuma	<input type="checkbox"/> dhany.kusuma@urbis.com.hk
<input type="checkbox"/>	-	<input type="checkbox"/> urbis-ncm32-ko73a@urbis.com.hk
<input type="checkbox"/> Atkins	- Mr. Peter Chan	<input type="checkbox"/> peter.chan@atkinglobal.com
<input type="checkbox"/>	- Ms. Lydia Lau	<input type="checkbox"/> lydia.lau@atkinglobal.com
<input checked="" type="checkbox"/> COW	- Mr. Terence Chan	<input checked="" type="checkbox"/> n1866-h-cow@dln.com.hk
<input checked="" type="checkbox"/> BSI	- Mr. CF Lee	<input checked="" type="checkbox"/> cf.lee@p-t-group.com
<input checked="" type="checkbox"/> RE	- Mr. Tom Hong	<input checked="" type="checkbox"/> tomhong@meinhardt.com.hk

SIGNED : WYL 




FOR
P & T (M & E) Limited

MTR CORPORATION
EXPRESS RAIL LINK (XRL)
ENGINEER'S RESPONSE FORM (ERF)



West Kowloon Terminus Site Office
 38 Austin Road West, Tsim Sha Tsui, Kowloon
 Tel : (852) 2926-9006 Direct Fax : (852) 2735-1744

Project: Contract 816M2 – Plumbing and Drainage Works for MCIQ				
FROM : Mr. Tommy Yuen Engineer's Representative MTR Corporation		TO : BYME Engineering (HK) Limited Mr. George Ma Contractor's Representative		ERF No. : 816M2-ERFM-CM(XRLTERBS)-PD-000001 (Other Subject _____ Location <u>WKT</u>)
				SIGNED :  DATE : <u>1 November 2017</u>
DOCUMENT TITLE	DOCUMENT NO. & DATE SUBMITTED	ENGINEER'S COMMENTS	STATUS	RE-SUBMISSION REQUIRED YES/NO
Stainless Steel Pipe & Fittings for Contract 816M2-MCIQ Plumbing & Drainage Brand : N.U Model : Grade 304 Country of Origin : PRC	816M2-MSF-BYM-PD-000001 & 25 May 2017	Nil	<input type="checkbox"/> Accepted for Record <input type="checkbox"/> Approved in Principle <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Approved Subject to Incorporation of Comments <input type="checkbox"/> Approved in Principle for Interim Review Completed <input type="checkbox"/> Not Applicable <input type="checkbox"/> Not Approved	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
REGISTRATION	INTERNAL DISTRIBUTION		EXTERNAL DISTRIBUTION	
	816M2 CM Team			
	P&DD Team			

JK/SL/ct




**Contract no. SS E517
Construction of a 30-Classroom Secondary School
at Site 1A-2, Kai Tak Development
Programme no. 271ES**

Response to Contractor's Submission

To:	Contractor	CS Ref.:	CS-HC127KTSS/MS/PD/128	Date:	2-5-2018
From:	P&T (M&E) Ltd – Mr. CHEUNG Yuk-hing, Vincent	RCS Ref.:	PD-205	Date:	10-5-2018
Previous Communications issued by:	Employer / Project Manager / Supervisor / Contractor *				
	Ref:	CS-HC127KTSS/MS/PD/0114,0118	Date:		
Other Relevant Correspondence (if any):					

Legends: * Delete as appropriate; Put a "X" as appropriate

Project Manager / Supervisor's Response:

DESCRIPTION: P&D Material Submission –
Stainless Steel 304 Pipes & Fittings (MS/045) Rev.4


*The submitted document under NEC Clause 26.2 is hereby:

- Accepted.
- Rejected due to:
- More information required in order to assess the submission fully.
 - It / They* will not allow the Contractor to Provide the Works.
 - Other reason(s) _____

Re-submission by the Contractor is required.

*The submission has been reviewed with the following comments provided to the Contractor:

Response given by the
Project Manager / Supervisor *:



(Signature)
VINCENT CHEUNG / PBSE

(Name in full)

Distribution

Email	Hard copy		Email	Hard Copy		
	w/e	w/o		w/e	w/o	
(x)	()	(x)	ArchSD (PM 144) – Mr. Willy Yeung	()	()	PCOW – Mr. David Yip
(x)	()	(x)	ArchSD (PM 157) – Mr. Leo Ma	()	()	RE – Mr. Raymond Chan
(x)	()	(x)	PTAE – Ms. Queenie Wan	(x)	()	ERBSI – Mr. F. L. Mak
()	()	()	PTSE – Mr. Simon Ho	(x)	(x)	PBSI – Mr. Alex Chan
()	()	()	PTME – Mr. Vincent Cheung	()	()	HO – Mr. T H Lun
()	()	()	AECOM	()	()	Site – SS, F, PC, SE, BS, QS
()	()	()	Urbis	(x)	(x)	BS - Wan Kin Nam

Contract No. SS E517
Construction of a 30-classroom Secondary School
at Site 1A-2, Kai Tak Development
Programme No. 271ES

CS Ref: CS-HC127KTSS/MS/PD/0128
Date: 2-5-2018

DESCRIPTION: P&D Material Submission –
Stainless Steel 304 Pipes & Fittings (MS/045) Rev.4

Details of the Submission are listed as follows:-

USE & LOCATION: Aboveground Drinking Water Supply System
BQ REF: N/A (Addition Works)
SPEC REF: N/A
DWG REF: BS/7958/PL101
BRAND NAME: N.U
MODEL NO.: Stainless Steel Pipe - Series 2 (304)
PP0156M – 15mm x 1.0mm
PP0226M – 22mm x 1.2mm
PP0286M – 28mm x 1.2mm
PP0356M – 35mm x 1.5mm
PP0426M – 42mm x 1.5mm
PP0546M – 54mm x 1.5mm
PP0766M – 76.1mm x 2.0mm
Stainless Steel Fitting
N.U Duopress
MANUFACTURER: Shenzhen Artway Piping Company Limited
SOURCE OF ORIGIN: China
SUPPLIER: Dextra Pacific Plumbing Limited
PMI REQUIRED: Yes No

ENCLOSURE:

	Sample	
<input checked="" type="checkbox"/>	Catalogue	Attached
<input checked="" type="checkbox"/>	Technical Data	Attached
<input checked="" type="checkbox"/>	Test Report	Attached
<input checked="" type="checkbox"/>	Job Reference	Attached

REMARKS: Refer to PMI-WS-001

MATERIAL SUBMISSION FORM

Mr. Jason Hawkins
 Faithful and Gould
 13/F, Wharf T&T Tower,
 Tsim Sha Tsui,
 Hong Kong

Submission No.: GSHK1(B345)-H-MSB-072
 Document Ref.: J3688/304.6/ D02601
 Aconex Ref.:
 Date: 5-March-2018

Project: Global Switch Hong Kong 1 (GSHK1) – Buildings 3, 4 & 5

Issued For : Approval via workflow Information

Trade: HVAC

Material Description: Material Submission of Stainless Steel Pipe & Fitting

Brand Name: N.U **Model:** See Attachment

Source of Origin: China **Manufacturer:** Shenzhen Artway Piping

Location for use: Buildings 3, 4 & 5

Enclosures:

<input checked="" type="checkbox"/> Catalogue	<input type="checkbox"/> Data / Specification	<input checked="" type="checkbox"/> Certification
<input checked="" type="checkbox"/> Test Report	<input type="checkbox"/> Material Sample	<input type="checkbox"/> Installation Drawing
<input checked="" type="checkbox"/> Job Reference	<input type="checkbox"/> Schedule/ Programme	<input type="checkbox"/> Calculation
<input type="checkbox"/> Technical Report	<input type="checkbox"/> Mill Certification	

This material submission is qualified for the LEED/ BEAM plus consideration.

Other(specify): _____

Reference/ Specification Clause: Design brief rev. G1

Follow-up action: For Material Procurement and Construction

Remarks: _____




Victor Tse
 Project Manager
 Gammon Engineering & Construction
 Company Limited

VT/RF/TEC/EC 

- cc Global Switch - David Guth, Andrew Ball, Martin Slater, Mark Challis, Holly Wong,
 Global Switch - Danny Kwan, Lawrence Lam
 F&G - Ryo Liu, Sunny Yeung, Desmond Lee, Chin-Shi Chen, Julia Chan
 WTP - Toby Brown, Stuart Murray, Mario Babilonia

Encl. _____

Faithful and Gould (PM) Reply

Status

- A – No adverse Comment, proceed according to this submission
 B – Proceed in accordance with the comment and re-submit
 C – Do not proceed and resubmit according to comment within 14 days

Comments: (Please add a separate sheet if required)

Signed: _____ Designation : _____ Date: _____

MATERIAL / EQUIPMENT SUBMISSION AND APPROVAL FORM

MATERIAL / EQUIPMENT SUBMISSION AND APPROVAL FORM


Contract Title : Main Contract for Phase 1 Redevelopment of Ming Wah Dai Ha at 1-25 A Kung Ngam Road, Shau Kei Wan, Hong Kong	Ref. No. : CW/914/BS/PD/MAT/0002
To : Leigh & Orange Ltd.	Date : 7/10/2017
Attn. : Mr. Kin Lau	Ref. No. of Previous Submission (1) : _____

DETAILS OF SUBMISSION

The enclosed sample and catalogue* / detail drawing* / technical data* / test report* / job reference as described below have been checked for compliance with the Specification and Drawings, and are submitted for approval.

(a) Materials Description	: PE Foam Coated Stainless Steel Pipe to BS EN 10312 Grade 304 / 316
(b) Specification Ref.	: G.S. Section 3.2.1, 3.2.4 & 3.8.7 for Plumbing and Drainage Installation
(c) Drawing No.	: 8629-PD-TPL001, 101 & 102
(d) B.Q. Item no.	: 3.9.1(68, 69, 70, 96-101), 4.8.1(109-112, 146-148), 5.6.1(99-101)
(e) Location	: Podium & Residential Area
(f) Brand Name	: N.U
(g) Manufacturer	: Shenzhen Artway Piping Company Limited
(h) Source of Origin	: China
(i) Supplier	: Dextra Pacific Plumbing
(j) Catalogue	: Attached
(k) Technical data	: Attached
(l) Test Report	: Attached
(m) Job Reference	: Attached
(n) Anticipated date of approval	: 21-10-2017
(o) Remarks	: _____

For and on behalf of
Chun Wo Construction and Engineering Co., Ltd.



Willis Wong Project Manager
WW / KCT / SY / mh

Reply of ~~Project Structural Engineer~~ / Project Building Services Engineer / _____ *

On the basis of the samples and information given, the above sample submitted is :

- (1)* Approved
- (2)* Approved subject to
- (3)* Not approved because
And resubmission is required

PTME Comments:-
i. Refer GS, all water pipes should be SS grade 316 for underground uses only, SS grade 304 shall be used for above ground.
ii. Type test cert. to prove SS Grade 316 pipes comply to BSEN 10312 is missing.
iii. Type test cert. to prove pipe sealant comply to BS 6920 is missing.
iv. No adverse comments on the submitted brand name.


Signature:  for PTME
Date: 20/10/17

To: Chun Wo Construction and Engineering Co., Ltd.

No further points to add to the above reply.

On the basis of the samples and information given, the above sample submitted is :

- (1)* Approved
- (2)* Approved subject to
- (3)* Not approved because
And resubmission is required

Signature:  for Leigh & Orange Ltd.
Date: 13 OCT 2017

The review does not release the Contractor from his responsibilities to comply with contract requirements. For resubmission, the Contractor has to highlight the revision areas.

Submission of Equipment, Materials And Sample Board Form

Project No.: 1157

Project Name: Subsidized Housing Development at Junction of Shek Pai Tau Road & Ming Kum Road, Tuen Mun, TMTL545, N.T.

Contractor/Sub-Contractor*: Sun Fook Kong Construction Ltd.

To: WSP (PARSONS BRINCKERHOFF) MSF No. : 1157-MSF-WSP-PD-00207

Attn: MR. KEVIN HUNG File Ref. : BLD:001157/2.20404/JS/KC/BF/ac(S0496)

DATE: 23 Oct. 2017

We are pleased to submit the following document for your review and comment.

MATERIAL DESCRIPTION	Stainless Steel Pipe for Cleansing & Irrigation System
SPECIFICATION REF. No.	G.S. (P.D.) Section 3.18.1
DRAWING REF. No.	All Plumbing Layout Drawings
LOCATION	Entire building
BRAND NAME	N.U.
MODEL	15mm to 40mm dia.
MANUFACTURER	Shenzhen Artway Piping Company Ltd.
SOURCE OF ORIGIN	China
SUPPLIER	Dextra Pacific Plumbing Limited
CATALOGUE	Attached
TECHNICAL DATA	Attached
TEST REPORT	Attached

Material
 Sample
 Test Report
 Equipment
 Mill Certificate
 Programme
 General

Additional Information

Submitted by: (Benny Fong)
 Contractor's Authorized Signature

RESPONSE / COMMENTS

A - No objection
 B - No objection subject to comments.
 C - Submission incomplete. See comments / Resubmit with missing details.
 D - Submission rejected. See comments / Resubmit.
 E - Other consultant's comment.

COMMENTS

Technically acceptable.

Signed for: [Signature] Endorsed by: [Signature]

Date: 17/11/2017 Date: 17/11/2017

		w/e	w/o		w/e	w/o		w/e	w/o
HKHS	Owen Li, Amanda Kwok, Dick Chan	✓		CSTSA	Eddie Au, Thomas Lee			COW	Edmond Heong
DLN	Mary Chan, James Chong	✓		Atkins	Peter Chan, Lydia Lau			RE	
MCS	K.K. Choy, Frank Wong, Vincent Zhou			Earthasia	Philip Leung, Twigggy Ngo			RBSE	
PB	Wu Wai Yip, Kevin Hung, Edward Pong			Environ	Tony Cheng, Michelle Chan				



JOB REFERENCE

- 1. Job Reference List**
- 2. Project Reference Sheet**



1. JOB REFERENCE LIST

YEAR	PROJECT	SERVICE	OWNER/CONSULTANT	MAIN CONTRACTOR	PLUMBING CONTRACTOR
2018	Bright Future Pharmaceutical Laboratories	Plumbing	Bright Future	New Anta	-
2018	MTR Chai Wan Depot	Plumbing	MTRC	Tong Kee	-
2018	TKO 73A	Plumbing	Housing Society / P&T	Aggressive	Wong Po Kee Limited
2017	The Tanner Hill Retirement Housing Development	Plumbing	Housing Society / Hyder	Paul Y.	Harvest
2018	West Kowloon District – M+ Museum RDE Building	Rainwater	West Kowloon / Arup	Hsin Chong Aster	Southa Technical Ltd.
2018	Shatin Area 36C – Housing Society	Plumbing	Housing Society / P&T	Raft	-
2017	Java Edible Bird's Nest (樓上燕窩莊) – Tai Wai	Plumbing	Java Edible Bird's Nest	S & Y	-
2017	Guangzhou-Shenzhen-Hong Kong Express Rail Link – 816D	Plumbing	MTRC	Chun Lee	-
2017	Guangzhou-Shenzhen-Hong Kong Express Rail Link – 816M2	Plumbing	MTRC	BYME	S & Y
2017	Chun Yip Street Playground	Plumbing	ASD	Raft	-
2017	St. Regis - Hotel Development at 26 Harbour Road, Wan Chai	Drainage	China Resources / Meinhardt	CR Construction	Aires Engineering Co. Ltd.
2016	Grand Century Place – MOKO Shopping Mall	Plumbing	Sun Hung Kai Property	Kai Shing Property Managerment	Kai Shing Property Management
2016	DTC for the maintenance, improvement and vacant flat refurbishment for properties managed by district maintenance offices / Tuen Mun and Yuen Long (2) 2017/2019	Plumbing	Housing Authority	-	Unistress Building Construction Ltd.
2016 - Present	Water Supply and Fire Services Term Maintenance Contract (T&Y AND KE Region)	Plumbing	Housing Authority	-	Huge Success Engineering
2016	MGM Cotai Hotel Development	Plumbing	MGM Macau	China State Construction Engineering (Macau)	Ploughtek P&D Engineering
2016	Tai Po Water Treatment Works	Plumbing	Water Supplies Department	China State ATAL Engineering Ltd.	China State ATAL Engineering Ltd.
2016	Murray Building – Hotel Development	Plumbing	Wheelock Properties	Gammon E&M Ltd.	Gammon E&M Ltd.
2016	Commercial Building at Hung Luen Road	Drainage	Wheelock Properties / WSP PBA	Hip Hing Construction	Wong Po Kee Limited
2015	Cathay Pacific Catering Services	Plumbing	Cathay Pacific	Hip Hing Construction	Long Sing Plumbing



YEAR	PROJECT	SERVICE	OWNER/CONSULTANT	MAIN CONTRACTOR	PLUMBING CONTRACTOR
2014	Chung Hom Kok No. 11	Plumbing	Private	Four Seas Engineering	Four Seas Engineering
2014	Housing Development at Hung Shui Kiu Area 13 Phase 1 & 2	Plumbing	Housing Authority / Thomas Anderson & Partners Ltd	Hsin Chong Construction	Chung Chun Engineering Co. Ltd.
2014	Ngong Ping Sewage Treatment	Irrigation System	DSD	Eco Greentech Ltd	Eco Greentech Ltd
2014	HK Disneyland Hotel 3 – Mock Up	Plumbing	HK Disneyland / Mott McDonald	Paul -Y	游記水喉公司
2013	Wah Luen Industrial Centre	Plumbing / Drainage	Wah Luen Industrial Centre	Soar Construction Engineering Co., Ltd	Samake Construction Co., Ltd
2013	No.11 Fei Ngo Shan Road	Plumbing	Dicky Lai Consultants Ltd	Vicat Eng. Co.	Four Seas Engineering
2013	One Pacific Place	Plumbing	Swire Property	Hon Lung Eng.	Hon Lung Eng.
2012	Wong Cho Tong Social Service Building	Drainage	TWGHs	Woo Hong Co.	Woo Hong Co.
2012	Waboo Food Jam Factory of Shek Mun	Equipment	Waboo	Waboo	Waboo
2012	Hang Seng Management College	MVAC	Wong & Ouyang	Young's Eng.	Wing Fung Eng.
2012	Infinitus Plaza	Water Cooling Plumbing	CT & Associates	Wan Chung Construction	LKK Health
2012	Tong Mei House	Plumbing	Wealthy Gate	Sang Hing Construction	Lee Hing Construction
2012	Shatin Area 4C - Mei Tin Estate	Plumbing	Housing Authority	Hsin Chong Construction	Golden Day Eng.
2011	Wo Hop Shek Crematorium	MVAC	ASD	Dah Fung Service	Yau Kwong
2011	The Venetian Macau Resort Hotel	Compress Air	The Venetian	Dah Duct Service (Macau)	Man Tat Tong Ltd.
2011	BEA Harbor View Center	Water Cooling Plumbing	CT & Associates	Dah Fung Service	TWES
2011	Millennium City Tower 1	Water Cooling Plumbing	CT & Associates	Dah Fung Service	TWES
2011	Wo Hop Shek Crematorium	Plumbing	ASD	Wan Chung Construction	Luen Fung Plumbing



2. PROJECT REFERENCE DETAIL SHEETS

1. HUNG SHUI KIU AREA 13 PHASE 1 & 2
2. SHATIN AREA 4C – MEI TIN ESTATE
3. THE VENETIAN MACAU RESORT HOTEL
4. HANG SENG MANAGEMENT COLLEGE
5. MURRAY BUILDING – HOTEL DEVELOPMENT
6. GRAND CENTURY PLACE – MOKO SHOPPING MALL
7. NO. 20-22, SOUTH BAY ROAD
8. CHEUNG SHA WAN K21
9. CHEUNG SHA WAN K22
10. CHEUNG SHA WAN K23
11. CATHAY PACIFIC CATERING SERVICES
12. WATER SUPPLY AND FIRE SERVICES TERM MAINTENANCE CONTRACT (T&Y AND KE REGION)
13. TONG MEI HOUSE
14. 11 FEI NGO SHAN ROAD
15. MGM COTAI HOTEL DEVELOPMENT
16. MILLENNIUM CITY TOWER 1
17. WO HOP SHEK CREMATORIUM
18. WAH LUEN INDUSTRIAL BUILDING
19. TANNER HILL RETIREMENT HOUSING DEVELOPMEMNT
20. GUANGZHOU-SHENZHEN-HONGKONG EXPRESS RAIL LINK HONG KONG SECTION
21. ST. REGIS – HOTEL DEVELOPMENT
22. BRIGHT FUTURE PHARMACEUTICAL LABORATORIES LIMITED
23. CHAI WAN DEPOT



HUNG SHUI KIU AREA 13 PHASE 1 & 2



Project References Details

Hung Shui Kiu Area 13 Phase 1 & 2 (Housing Authority Project)



LOCATION
Hung Shui Kiu Area 13
Phase 1 & 2

CONTRACTOR
Hsin Chong Construction

CONSULTANT
Thomas Anderson &
Partners Ltd

YEAR / DURATION
2013 - 2015

PRODUCT
N.U 304 Stainless Steel
Double Press EN 10312
DN15 - 108

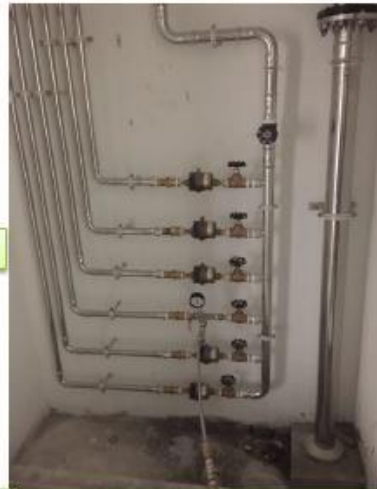
SERVICE
Water Supply System



Hung Shui Kiu Project (Housing Authority Project)



Installed by Hydraulic tools



Water Separator Installed



Installed by Electrical Tools





SHATIN AREA 4C – MEI TIN ESTATE



Project References Details

N.U Stainless Steel Double Press Piping System



Shatin Area 4C - Mei Tin Estate

Heung Fan Liu Street, Tai Wai, N.T.



Housing Project

Contractors :
Hsin Chong Construction /
Golden Day Eng.

Year / Applications :
2012 – Plumbing

Products :
304 S/S Pipes & Fittings

www.dextragroup.com





THE VENETIAN MACAU RESORT HOTEL



Project References Details

N.U Stainless Steel Double Press Piping System



The Venetian Macau Resort Hotel



Contractors :
Dah Duct Service (Macau) /
Man Tat Tong Ltd.

Year / Applications :
2011 – Compress Air

Products :
304 S/S Pipes & Fittings

www.dextragroup.com





HANG SENG MANAGEMENT COLLEGE



Project References Details

N.U Stainless Steel Double Press Piping System



Hang Seng Management College

Hang Shin Link, Siu Lek Yuen, Shatin, N.T.



Consultant :
Wong & Ouyang (HK)

Contractors :
Young's Eng. Co Ltd. /
Wing Fung Eng.

Year / Applications :
2012 – MVAC

Products :
304 S/S Pipes & Fittings

www.dextragroup.com





MURRAY BUILDING – HOTEL DEVELOPMENT



Dextra



Location
Murray Building,
Cotton Tree Drive

Contractors
Gammon Construction

Plumbing Contractors
Gammon Construction

Consultant
Wong Ouyang

Year/Duration
2015-2017

Applications
Plumbing / HVAC

Products
304 Pipes & Fittings

www.dextragroup.com

Project References Details

Murray Building - Hotel Development





GRAND CENTURY PLACE – MOKO SHOPPING MALL



Dextra

Project References Details

Grand Century Place – MOKO Shopping Mall



Location
Grand Century Place,
193 Prince Edward
Road West

Contractors
Kai Shing Property
Management

Consultant
Kai Shing Property
Management

Year/Duration
2015-2017

Applications
Plumbing

Products
304 Pipes & Fittings

www.dextragroup.com





NO. 20-22, SOUTH BAY ROAD



Dextra



LOCATION

South Bay Road No.20-22

Sub-Contractor

Lap Kei Engineering

YEAR / DURATION

2014 - 2015

PRODUCT

N.U 316L Stainless Steel
Double Press EN 10312
DN15 - 108

SERVICE

Water Supply and
MVAC System

Dextra

Project References Details

No.20-22, South Bay Road (Private Building Project)



Installed by Electrical
Clamping Tools



CHEUNG SHA WAN K21



Dextra



Location
Cheung Sha Wan,
Kowloon West

Contractors
Paul Y Engineering Ltd.

Plumbing Contractors
Choi Sum Water Pipe
Serv Co Ltd.

Consultant
Housing Society

Year/Duration
2015

Applications
Plumbing

Products
304 Pipes & Fittings

www.dextragroup.com

Project References Details

K21 Heya Crystal, Cheung Sha Wan
(Hong Kong Housing Society Project)





CHEUNG SHA WAN K22



Dextra



Location
Cheung Sha Wan,
Kowloon West

Contractors
Hip Hing Construction

Plumbing Contractors
Wong Po Kee Ltd.

Consultant
Housing Society

Year/Duration
2015

Applications
Plumbing

Products
304 Pipes & Fittings

www.dextragroup.com

Project References Details

**K22 Heya Crystal, Cheung Sha Wan
(Hong Kong Housing Society Project)**





CHEUNG SHA WAN K23



Dextra



Project References Details

Cheung Sha Wan K23 (Hong Kong Housing Society Project)



Year 2015

LOCATION

K23 – Cheung Sha Wan

CONTRACTOR

Chun Wo Construction

PLUMBING CONTRACTOR

Wong Po Kee Limited

YEAR / DURATION

2014-2016

PRODUCT

N.U 304 Stainless Steel
PE Forming Pipes & fittings

SERVICE

Pump Pipe & Plumbing system



Installed by Electrical Tools



PE Forming pipes



Used as Pump Pipe



Installed by Electrical Tool

Dextra



CATHAY PACIFIC CATERING SERVICES



Dextra



Location
Hong Kong Int'l
Airport, Lantau Island

Contractors
Hip Hing Construction

Plumbing Contractors
Long Sing Plumbing

Consultant
Cathay Pacific

Year/Duration
2015

Applications
Plumbing

Products
304 Pipes & Fittings

www.dextragroup.com

Project References Details

Cathay Pacific Catering Services

CATHAY PACIFIC
CATERING SERVICES





**WATER SUPPLY AND FIRE SERVICES TERM MAINTENANCE CONTRACT (T&Y AND KE REGION)
(Hong Kong Housing Authority Project)**



Dextra



Location
Lai Kok Estate,
Shum Shui Po

Plumbing Contractors
Huge Success
Engineering Ltd.

Consultant
Housing Authority

Year/Duration
2016/17 - 2019/20

Applications
Plumbing

Products
304 & 316L Pipes &
Fittings

www.dextragroup.com

Project References Details

**Water Supply and Fire Services Term
Maintenance Contract (T&Y and KE Region)
(Hong Kong Housing Authority Project)**





TONG MEI HOUSE



Project References Details

N.U Stainless Steel Double Press Piping System



Tong Mei House

205-207 Tong Mei Road, Tai Kok Tsui, Kowloon



Consultant :
Wealthy Gate Architects &
Associates Ltd

Contractors :
Sang Hing Construction

Year / Applications :
2012 – Renovation /
Copper to Stainless Steel

Products :
304 S/S Pipes & Fittings

www.dextragroup.com





NO.11 FEI NGO SHAN ROAD



Dextra



Location
Fei Ngo Shan, Clear Water Bay

Contractors
Vicat Eng. Co.

Plumbing Contractors
Four Seas Engineering

Consultant
Dicky Lai Consultants Ltd.

Year/Duration
2013

Applications
Plumbing

Products
316L Pipes & Fittings

www.dextragroup.com

Project References Details

No.11 Fei Ngo Shan Road (Luxury Residential Building)



Installed and in connection with Valves



Wall Embedded



MGM COTAI HOTEL DEVELOPMENT



Project References Details

MGM Cotai Hotel Development



Location
Cotai, Macau

Contractors
China State Construction
Engineering (Macau)

Plumbing Contractors
Ploughtek P&D
Engineering

Consultant
MGM Macau

Year/Duration
2016

Applications
Plumbing

Products
316L Pipes & Fittings

www.dextragroup.com





MILLENNIUM CITY TOWER 1



Project References Details

N.U Stainless Steel Double Press Piping System



Millennium City Tower 1

388 Kwun Tong Road, Kwun Tong, Kowloon

Consultant :
CT & Associates (H.K.)

Contractors :
Dah Fung Service (H.K.) /
TWES

Year / Applications :
2011 – Plumbing

Products :
304 S/S Pipes & Fittings

www.dextragroup.com





WO HOP SHEK CREMATORIUM



Project References Details

N.U Stainless Steel Double Press Piping System



Wo Hop Shek Crematorium

Kiu Tau Road, Fanling, N.T., H.K.



ASD Project

Contractors :

Wan Chung Construction /
Luen Fung Plumbing

Year / Applications :

2011 – Plumbing
2012 – MVAC

Products :

316 S/S Pipes & Fittings

www.dextragroup.com





WAH LUEN INDUSTRIAL CENTRE



Dextra



Location
Fo Tan, Shatin

Contractors
Soar Construction

Plumbing Contractors
Samake Construction

Consultant
Wah Luen Industrial
Centre

Year/Duration
2013

Applications
Plumbing

Products
316L Pipes & Fittings

www.dextragroup.com

Project References Details

Wah Luen Industrial Centre





TANNER HILL RETIREMENT HOUSING



Project References Details

Tanner Hill Retirement Housing Development (Hong Kong Housing Society Project)



Location
North Point, Hong
Kong

Plumbing Contractors
Harvest Engineering Co.

Consultant
J. Roger Preston Ltd.

Year/Duration
2018

Applications
Plumbing

Products
304 Pipes & Fittings





GUANGZHOU-SHENZHEN-HONG KONG EXPRESS RAIL LINK HONG KONG SECTION



Project References Details

Guangzhou-Shenzhen-Hong Kong
Express Rail Link Hong Kong
section (816M2)



Location

816M2 – Juxtaposed
Border Control

Contractors

BYME Engineering

Consultant

MTRC

Year/Duration

2013 - 2018

Applications

Water Supply System

Products

304 Pipes & Fittings



ST.REGIS – HOTEL DEVELOPMENT



Project References Details

St. Regis –Hotel Development
(China Resources)



ST REGIS



Location

Wan Chai, Hong Kong

Contractors

CR Construction

Consultant

Meinhardt

Year/Duration

2017 - 2018

Applications

Drainage

Products

316L Pipes & Fittings





Dextra

Project References Details

**Bright Future Pharmaceutical
Laboratories Limited**



Location

Yuen Long, New
Territories

Contractors

New Anta Engineering

Year/Duration

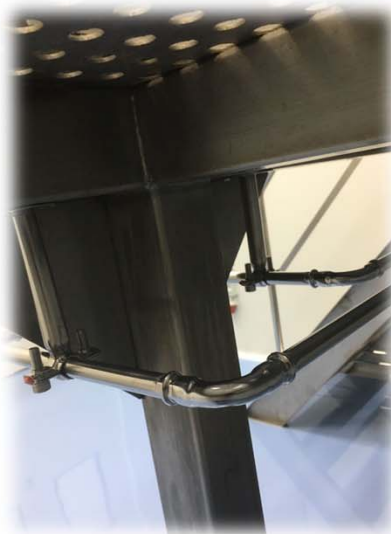
2017 - 2018

Applications

Plumbing

Products

304 Pipes & Fittings





Dextra

Project References Details

Chai Wan Depot



Location
Chai Wan, Hong Kong

Contractors
Better Engineering

Year/Duration
2017 - 2018

Applications
Plumbing

Products
304 Pipes & Fittings



END