

Comparison Table of Test Results

※ Material Name : Spheroidal graphite iron castings(GCD 450-10)

※ Product name : GROOVED JOINT(Ducitle Iron)

※ Inspection Agency : Korea Testing & Research Institute

※ Inspection Results : Pass

Test standards (SPS-KFCA-D4302-5016)				
Test item	Unit	Test standards	Result	Test method
Tensile Strength	N/mm ²	450 More than	459	KS B 0802 : 2003 (Test Specimen No.4)
Yield Strength (0.2% offset)	N/mm ²	280 More than	303	KS B 0802 : 2003 (Test Specimen No.4)
Elongation	%	10 More than	23	KS B 0802 : 2003 (Test Specimen No.4)
Hardness	HB	140~210	167 HBW 10/3 000	KSB0805 : 2000
C	%	2.5 More than	3.16	KSDISO 14707 : 2000
S	%	0.02 Less than	0.009	KSDISO 14707 : 2000
Mg	%	0.09 Less than	0.04	KSDISO 14707 : 2000
Spheroidized Percent of Graphite	%	80% More than	80	SPS-KFCA-D4302-5016 : 2014

Comparison Table of Test Results

※ Material Name : Stainless steel castings(SSC13)

※ Product name : GROOVED JOINT(Stainless steel)

※ Inspection Agency : Korea Testing & Research Institute

※ Inspection Results : Pass

Test standards (SPS-KFCA-D4103-5006)				
Test item	Unit	Test standards	Result	Test method
Tensile Strength	N/mm ²	440 More than	553	KS B 0802 : 2003 (Test Specimen No.4)
Yield Strength (0.2% offset)	N/mm ²	185 More than	232	KS B 0802 : 2003 (Test Specimen No.4)
Elongation	%	30 More than	47	KS B 0802 : 2003 (Test Specimen No.4)
Hardness	HB	183 Less than	156 HBW 5/750	KS B 0805 : 2000
C	%	0.08 Less than	0.05	KS D 1652 : 2022
Si	%	2.00 Less than	0.72	KS D 1652 : 2022
Mn	%	2.00 Less than	0.98	KS D 1652 : 2022
P	%	0.040 Less than	0.032	KS D 1652 : 2022
S	%	0.040 Less than	0.020	KS D 1652 : 2022
Ni	%	8.00 ~ 11.00	8.50	KS D 1652 : 2022
Cr	%	18.00 ~ 21.00	18.56	KS D 1652 : 2022

Comparison Table of Test Results

※ Material Name : EPDM

※ Product name : Rubber goods for water works service(Gasket) 70

※ Inspection Agency : Korea Testing & Research Institute

※ Inspection Results : Pass

Test standards (KS M 6613)				
Test item	Unit	Test standards	Result	Test method
Tensile Strength	N/cm ²	1770 More than	1960	KS M 6613 : 2022
Elongation at Break	%	300 More than	444	KS M 6613 : 2022
Hardness	(HS)	70± 5	69	KS M 6613 : 2022
Elongation at 686 N/cm ² Load	%	200 Less than	180	KS M 6613 : 2022
Tensile set	%	10 Less than	6	KS M 6613 : 2022
Aging Test((70±1)℃*96hr)				
Change in Tensile Strength	%	-Within 20	- 1	KS M 6613 : 2022
Change in Elongation at Break	%	+ 10 - 20	- 8	KS M 6613 : 2022
Change in Spring Hardness Hs	(HS)	+ 7 0	0	KS M 6613 : 2022
Compression Set ((70±1)℃,22 h)	%	20 Less than	12	KS M 6613 : 2022

Comparison Table of Test Results

※ Material Name : EPDM

※ Product name : Rubber goods for water works service(Gasket) 60

※ Inspection Agency : Korea Testing & Research Institute

※ Inspection Results : Pass

Test standards (KS M 6613)				
Test item	Unit	Test standards	Result	Test method
Tensile Strength	N/cm ²	1770 More than	2220	KS M 6613 : 2022
Elongation at Break	%	400 More than	528	KS M 6613 : 2022
Hardness	(HS)	60 ± 5	60	KS M 6613 : 2022
Elongation at 686 N/cm ² Load	%	300 Less than	234	KS M 6613 : 2022
Tensile set	%	10 Less than	6	KS M 6613 : 2022
Aging Test((70±1)℃*96hr)				
Change in Tensile Strength	%	-Within 20	- 5	KS M 6613 : 2022
Change in Elongation at Break	%	+ 10 - 20	- 11	KS M 6613 : 2022
Change in Spring Hardness Hs	(HS)	+ 7 0	1	KS M 6613 : 2022
Compression Set ((70±1)℃, 22 h)	%	20 Less than	9	KS M 6613 : 2022

Comparison Table of Test Results

※ Material Name : Steel bolt (8.8)

※ Product name : Steel bolt

※ Inspection Agency : Korea Testing & Research Institute

※ Inspection Results : Pass

Test standards (KS B 1002 / KS B 0233)				
Test item	Unit	Test standards	Result	Test method
Tensile Strength	N/mm ²	800 More than	866	KS B 0802 : 2003 (Test Specimen No.14A)
Yield Strength (0.2% offset)	N/mm ²	580 More than	588	KS B 0802 : 2003 (Test Specimen No.14A)
Elongation	%	12 More than	18	KS B 0802 : 2003 (Test Specimen No.14A)
Reduction of Area	%	52 More than	57	KS B 0802 : 2003 (Test Specimen No.14A)
Hardness	HRC	22 More than	24 HRC	KS B 0806 : 2000
C	%	0.25 ~ 0.55	0.46	KS D 1652 : 2022
P	%	0.035 Less than	0.009	KS D 1652 : 2022
S	%	0.035 Less than	0.003	KS D 1652 : 2022
B	%	0.003 Less than	0.0002	KS D 1652 : 2022

Comparison Table of Test Results

※ Material Name : Stainless steel bolt(A2-70)

※ Product name : Stainless steel bolt

※ Inspection Agency : Korea Testing & Research Institute

※ Inspection Results : Pass

Test standards (KS B 1002 / KS B 0241)				
Test item	Unit	Test standards	Result	Test method
Tensile Strength(Bolt)	N/mm ²	700 More than	724	KS B 0241 : 2016
Stress at 0.2% Permanent strain(Bolt)	N/mm ²	450 More than	541	KS B 0241 : 2016
Elongation after fracture(Bolt)	mm	5.6 More than	26.2	KS B 0241 : 2016
C	%	0.10 Less than	0.02	KS D 1652 : 2022
Si	%	1.0 Less than	0.38	KS D 1652 : 2022
Mn	%	2.0 Less than	1.80	KS D 1652 : 2022
P	%	0.05 Less than	0.038	KS D 1652 : 2022
S	%	0.03 Less than	0.003	KS D 1652 : 2022
Ni	%	8.0 ~ 19.0	8.06	KS D 1652 : 2022
Cr	%	15.0 ~ 20.0	18.24	KS D 1652 : 2022
Cu	%	4.0 Less than	1.11	KS D 1652 : 2022

Comparison Table of Test Results

※ Material Name : Epoxy-powder

※ Product name : GROOVED FITTINGS (Epoxy-powder coating)

※ Inspection Agency : Korea Testing & Research Institute

※ Inspection Results : Pass

Test standards (KS D 4317)				
Test item	Unit	Test standards	Result	Test method
Appearance of Coating	-	-	No defects	KS D 4317 : 2022
Adhesion of Coating(Average)	MPa	6 more than	19	KS D 4317 : 2022
Adhesion of Coating(Minimum)	MPa	8 more than	19	KS D 4317 : 2022
Thickness of Coating	mm	0.2 more than	0.4	KS D 4317 : 2022
Curing degree of Coating	-	The condition of not peeling off	No defects	KS D 4317 : 2022
Scratch Resistance of Coating	-	T-	No Defects	KS D 4317 : 2022

Comparison Table of Test Results

※ Material Name : Carbon steel pipes for ordinary piping(SPP)

※ Product name : GROOVED FITTINGS(SPP)

※ Inspection Agency : Korea Testing & Research Institute

※ Inspection Results : Pass

Test standards (KS D 3507)				
Test item	Unit	Test standards	Result	Test method
Tensile Strength	N/mm ²	340 more than	404	KS B 0802 : 2003 (Test Specimen No.12B)
Yield Strength (0.2% offset)	N/mm ²	200 more than	273	KS B 0802 : 2003 (Test Specimen No.12B)
Elongation	%	30 more than	42	KS B 0802 : 2003 (Test Specimen No.12B)
Flattening Test	—	—	No defects	KS D 3507 : 2023
C	%	0.28 Less than	0.14	KS D 1652 : 2022
Si	%	0.35 Less than	0.01	KS D 1652 : 2022
Mn	%	0.80 Less than	0.39	KS D 1652 : 2022
P	%	0.040 Less than	0.011	KS D 1652 : 2022
S	%	0.040 Less than	0.010	KS D 1652 : 2022

Comparison Table of Test Results

※ Material Name : Carbon steel pipes for pressure piping (SPPS250)

※ Product name : GROOVED FITTINGS(PS380W)

※ Inspection Agency : Korea Testing & Research Institute

※ Inspection Results : Pass

Test standards (KS D 3562)				
Test item	Unit	Test standards	Result	Test method
Tensile Strength	N/mm ²	410 more than	486	KS B 0802 : 2003 (Test Specimen No.12B)
Yield Strength (0.2% offset)	N/mm ²	250 more than	372	KS B 0802 : 2003 (Test Specimen No.12B)
Elongation	%	25 more than	36	KS B 0802 : 2003 (Test Specimen No.12B)
Flattening Test	–	–	No defects	KS D 3562 : 2022
C	%	0.30 Less than	0.19	KS D 1652 : 2022
Si	%	0.35 Less than	0.01	KS D 1652 : 2022
Mn	%	0.30 ~ 100	0.47	KS D 1652 : 2022
P	%	0.040 Less than	0.012	KS D 1652 : 2022
S	%	0.040 Less than	0.003	KS D 1652 : 2022

Comparison Table of Test Results

※ Material Name : Stainless steel pipe for piping (STS304W)

※ Product name : GROOVED FITTINGS(STS304W)

※ Inspection Agency : Korea Testing & Research Institute

※ Inspection Results : Pass

Test standards (KS D 3576)				
Test item	Unit	Test standards	Result	Test method
Tensile Strength	N/mm ²	520 more than	652	KS B 0802 : 2003 (Test Specimen No.12B)
Yield Strength (0.2% offset)	N/mm ²	205 more than	306	KS B 0802 : 2003 (Test Specimen No.12B)
Elongation	%	35 more than	53	KS B 0802 : 2003 (Test Specimen No.12B)
Flattening Test	—	—	No defects	KS D 3576 : 2022
C	%	0.08 Less than	0.06	KS D 1652 : 2022
Si	%	1.00 Less than	0.39	KS D 1652 : 2022
Mn	%	2.00 Less than	1.02	KS D 1652 : 2022
P	%	0.040 Less than	0.036	KS D 1652 : 2022
S	%	0.030 Less than	0.005	KS D 1652 : 2022
Ni	%	8.00 ~ 11.00	8.03	KS D 1652 : 2022
Cr	%	18.00 ~ 20.00	18.09	KS D 1652 : 2022

Comparison Table of Test Results

※ Material Name : Rolled steels for general structure (SS275)

※ Product name : RING JOINT(Welding ring)

※ Inspection Agency : Korea Testing & Research Institute

※ Inspection Results : Pass

Test standards (KS D 3503)				
Test item	Unit	Test standards	Result	Test method
Tensile Strength	N/mm ²	410 ~ 550	430	KS B 0802 : 2003 (Test Specimen No.2)
Yield point	N/mm ²	275 more than	285	KS B 0802 : 2003 (Test Specimen No.2)
Elongation	%	20 more than	36	KS B 0802 : 2003 (Test Specimen No.2)
C	%	0.25 Less than	0.18	KS D 1652 : 2022
Si	%	0.45 Less than	0.23	KS D 1652 : 2022
Mn	%	1.40 Less than	0.67	KS D 1652 : 2022
P	%	0.050 Less than	0.016	KS D 1652 : 2022
S	%	0.050 Less than	0.014	KS D 1652 : 2022

Comparison Table of Test Results

※ Material Name : Spheroidal graphite iron castings(GCD 450-10)

※ Product name : GROOVED JOINT(AJ520)

※ Inspection Agency : Korea Testing & Research Institute

※ Inspection Results : Pass

Test standards (AJSQI-A104)					
Test item	Unit	Sample classification	Test standards	Result	Test method
Hydrostatic Test (6.0 MPa X 1 h)	-	40A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (6.0 MPa X 1 h)	-	50A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (6.0 MPa X 1 h)	-	65A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (6.0 MPa X 1 h)	-	80A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (6.0 MPa X 1 h)	-	100A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (6.0 MPa X 1 h)	-	125A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (6.0 MPa X 1 h)	-	150A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (6.0 MPa X 1 h)	-	200A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (4.0 MPa X 1 h)	-	250A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (4.0 MPa X 1 h)	-	300A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (3.0 MPa X 1 h)	-	600A	No leaks	No Leakage	AJSQI-T109

Comparison Table of Test Results

※ Material Name : Spheroidal graphite iron castings(GCD 450-10)

※ Product name : GROOVED JOINT(AJ320)

※ Inspection Agency : Korea Testing & Research Institute

※ Inspection Results : Pass

Test standards (AJSQI-A104)					
Test item	Unit	Sample classification	Test standards	Result	Test method
Hydrostatic Test (6.0 MPa X 1 h)	-	25A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (6.0 MPa X 1 h)	-	32A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (6.0 MPa X 1 h)	-	40A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (6.0 MPa X 1 h)	-	50A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (6.0 MPa X 1 h)	-	65A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (6.0 MPa X 1 h)	-	80A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (6.0 MPa X 1 h)	-	100A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (6.0 MPa X 1 h)	-	125A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (6.0 MPa X 1 h)	-	150A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (6.0 MPa X 1 h)	-	200A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (4.0 MPa X 1 h)	-	250A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (4.0 MPa X 1 h)	-	300A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (3.0 MPa X 1 h)	-	600A	No leaks	No Leakage	AJSQI-T109

Comparison Table of Test Results

※ Material Name : Spheroidal graphite iron castings(GCD 450-10)

※ Product name : GROOVED JOINT(AJ550R)

※ Inspection Agency : Korea Testing & Research Institute

※ Inspection Results : Pass

Test standards (AJSQI-A104)					
Test item	Unit	Sample classification	Test standards	Result	Test method
Hydrostatic Test (6.0 MPa X 1 h)	-	50A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (6.0 MPa X 1 h)	-	65A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (6.0 MPa X 1 h)	-	80A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (6.0 MPa X 1 h)	-	100A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (6.0 MPa X 1 h)	-	125A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (6.0 MPa X 1 h)	-	150A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (6.0 MPa X 1 h)	-	200A	No leaks	No Leakage	AJSQI-T109

NEWASIA Co., Ltd

Comparison Table of Test Results

※ Material Name : Spheroidal graphite iron castings(GCD 450-10)

※ Product name : GROOVED JOINT(AJ550F)

※ Inspection Agency : Korea Testing & Research Institute

※ Inspection Results : Pass

Test standards (AJSQI-A104)					
Test item	Unit	Sample classification	Test standards	Result	Test method
Hydrostatic Test (6.0 MPa X 1 h)	-	50A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (6.0 MPa X 1 h)	-	65A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (6.0 MPa X 1 h)	-	80A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (6.0 MPa X 1 h)	-	100A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (6.0 MPa X 1 h)	-	125A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (6.0 MPa X 1 h)	-	150A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (6.0 MPa X 1 h)	-	200A	No leaks	No Leakage	AJSQI-T109

NEWASIA Co., Ltd

Comparison Table of Test Results

※ Material Name : Spheroidal graphite iron castings(GCD 450-10)

※ Product name : GROOVED JOINT(AJS510R)

※ Inspection Agency : Korea Testing & Research Institute

※ Inspection Results : Pass

Test standards (AJSQI-A104)					
Test item	Unit	Sample classification	Test standards	Result	Test method
Hydrostatic Test (6.0 MPa X 1 h)	-	25A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (6.0 MPa X 1 h)	-	32A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (6.0 MPa X 1 h)	-	40A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (6.0 MPa X 1 h)	-	50A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (6.0 MPa X 1 h)	-	65A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (6.0 MPa X 1 h)	-	80A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (6.0 MPa X 1 h)	-	100A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (6.0 MPa X 1 h)	-	125A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (6.0 MPa X 1 h)	-	150A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (6.0 MPa X 1 h)	-	200A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (4.0 MPa X 1 h)	-	250A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (4.0 MPa X 1 h)	-	300A	No leaks	No Leakage	AJSQI-T109

Comparison Table of Test Results

※ Material Name : Spheroidal graphite iron castings(GCD 450-10)

※ Product name : GROOVED JOINT(AJS510F)

※ Inspection Agency : Korea Testing & Research Institute

※ Inspection Results : Pass

Test standards (AJSQI-A104)					
Test item	Unit	Sample classification	Test standards	Result	Test method
Hydrostatic Test (6.0 MPa X 1 h)	-	50A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (6.0 MPa X 1 h)	-	65A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (6.0 MPa X 1 h)	-	80A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (6.0 MPa X 1 h)	-	100A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (6.0 MPa X 1 h)	-	125A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (6.0 MPa X 1 h)	-	150A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (6.0 MPa X 1 h)	-	200A	No leaks	No Leakage	AJSQI-T109

NEWASIA Co., Ltd

Comparison Table of Test Results

※ Material Name : Stainless steel castings(SSC13)

※ Product name : GROOVED JOINT(AJ130R)

※ Inspection Agency : Korea Testing & Research Institute

※ Inspection Results : Pass

Test standards (AJSQI-A104)					
Test item	Unit	Sample classification	Test standards	Result	Test method
Hydrostatic Test (6.0 MPa X 1 h)	–	25A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (6.0 MPa X 1 h)	–	32A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (6.0 MPa X 1 h)	–	40A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (6.0 MPa X 1 h)	–	50A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (6.0 MPa X 1 h)	–	65A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (6.0 MPa X 1 h)	–	80A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (6.0 MPa X 1 h)	–	100A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (6.0 MPa X 1 h)	–	125A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (6.0 MPa X 1 h)	–	150A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (6.0 MPa X 1 h)	–	200A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (4.0 MPa X 1 h)	–	250A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (4.0 MPa X 1 h)	–	300A	No leaks	No Leakage	AJSQI-T109

Comparison Table of Test Results

※ Material Name : Stainless steel castings(SSC13)

※ Product name : GROOVED JOINT(AJ130F)

※ Inspection Agency : Korea Testing & Research Institute

※ Inspection Results : Pass

Test standards (AJSQI-A104)					
Test item	Unit	Sample classification	Test standards	Result	Test method
Hydrostatic Test (6.0 MPa X 1 h)	-	25A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (6.0 MPa X 1 h)	-	32A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (6.0 MPa X 1 h)	-	40A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (6.0 MPa X 1 h)	-	50A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (6.0 MPa X 1 h)	-	65A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (6.0 MPa X 1 h)	-	80A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (6.0 MPa X 1 h)	-	100A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (6.0 MPa X 1 h)	-	125A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (6.0 MPa X 1 h)	-	150A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (6.0 MPa X 1 h)	-	200A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (4.0 MPa X 1 h)	-	250A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (4.0 MPa X 1 h)	-	300A	No leaks	No Leakage	AJSQI-T109

Comparison Table of Test Results

※ Material Name : Spheroidal graphite iron castings(GCD 450-10)

※ Product name : REDUCING JOINT (AJ730RC)

※ Inspection Agency : Korea Testing & Research Institute

※ Inspection Results : Pass

Test standards (AJSQI-A104)					
Test item	Unit	Sample classification	Test standards	Result	Test method
Hydrostatic Test (6.0 MPa X 1 h)	-	32A X 25A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (6.0 MPa X 1 h)	-	40A X 32A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (6.0 MPa X 1 h)	-	50 X 40A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (6.0 MPa X 1 h)	-	65 X 50A	No leaks	No Leakage	AJSQI-T109

NEWASIA Co., Ltd

Comparison Table of Test Results

※ Material Name : Carbon steel pipes for ordinary piping(SPP)

※ Product name : CARBON GROOVED FITTINGS (ELBOW)

※ Inspection Agency : Korea Testing & Research Institute

※ Inspection Results : Pass

Test standards (AJSQI-A105)					
Test item	Unit	Sample classification	Test standards	Result	Test method
Hydrostatic Test (6.0 MPa X 1 h)	-	25A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (6.0 MPa X 1 h)	-	32A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (6.0 MPa X 1 h)	-	40A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (6.0 MPa X 1 h)	-	50A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (6.0 MPa X 1 h)	-	65A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (6.0 MPa X 1 h)	-	80A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (6.0 MPa X 1 h)	-	100A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (6.0 MPa X 1 h)	-	125A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (6.0 MPa X 1 h)	-	150A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (6.0 MPa X 1 h)	-	200A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (4.0 MPa X 1 h)	-	250A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (4.0 MPa X 1 h)	-	300A	No leaks	No Leakage	AJSQI-T109

Comparison Table of Test Results

※ Material Name : Carbon steel pipes for ordinary piping(SPP)

※ Product name : CARBON GROOVED FITTINGS (TEE)

※ Inspection Agency : Korea Testing & Research Institute

※ Inspection Results : Pass

Test standards (AJSQI-A105)					
Test item	Unit	Sample classification	Test standards	Result	Test method
Hydrostatic Test (6.0 MPa X 1 h)	–	25A*25A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (6.0 MPa X 1 h)	–	32A*32A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (6.0 MPa X 1 h)	–	40A*40A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (6.0 MPa X 1 h)	–	50A*50A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (6.0 MPa X 1 h)	–	65A*65A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (6.0 MPa X 1 h)	–	80A*80A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (6.0 MPa X 1 h)	–	100A*100A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (6.0 MPa X 1 h)	–	125A*125A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (6.0 MPa X 1 h)	–	150A*150A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (6.0 MPa X 1 h)	–	200A*200A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (4.0 MPa X 1 h)	–	250A*250A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (4.0 MPa X 1 h)	–	300A*300A	No leaks	No Leakage	AJSQI-T109

Comparison Table of Test Results

※ Material Name : Carbon steel pipes for ordinary piping(SPP)

※ Product name : CARBON GROOVED FITTINGS (REDUCER)

※ Inspection Agency : Korea Testing & Research Institute

※ Inspection Results : Pass

Test standards (AJSQI-A105)					
Test item	Unit	Sample classification	Test standards	Result	Test method
Hydrostatic Test (6.0 MPa X 1 h)	-	32A*25A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (6.0 MPa X 1 h)	-	40A*32A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (6.0 MPa X 1 h)	-	50A*40A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (6.0 MPa X 1 h)	-	65A*50A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (6.0 MPa X 1 h)	-	80A*65A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (6.0 MPa X 1 h)	-	100A*80A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (6.0 MPa X 1 h)	-	125A*100A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (6.0 MPa X 1 h)	-	150A*125A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (6.0 MPa X 1 h)	-	200A*150A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (4.0 MPa X 1 h)	-	250A*200A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (4.0 MPa X 1 h)	-	300A*250A	No leaks	No Leakage	AJSQI-T109

Comparison Table of Test Results

※ Material Name : Carbon steel pipes for ordinary piping(SPP)

※ Product name : CARBON GROOVED FITTINGS (CAP)

※ Inspection Agency : Korea Testing & Research Institute

※ Inspection Results : Pass

Test standards (AJSQI-A105)					
Test item	Unit	Sample classification	Test standards	Result	Test method
Hydrostatic Test (6.0 MPa X 1 h)	-	25A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (6.0 MPa X 1 h)	-	32A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (6.0 MPa X 1 h)	-	40A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (6.0 MPa X 1 h)	-	50A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (6.0 MPa X 1 h)	-	65A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (6.0 MPa X 1 h)	-	80A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (6.0 MPa X 1 h)	-	100A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (6.0 MPa X 1 h)	-	125A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (6.0 MPa X 1 h)	-	150A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (6.0 MPa X 1 h)	-	200A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (4.0 MPa X 1 h)	-	250A	No leaks	No Leakage	AJSQI-T109
Hydrostatic Test (4.0 MPa X 1 h)	-	300A	No leaks	No Leakage	AJSQI-T109