



# ENGINEERED FOR SUPERIOR PERFORMANCE

*Stainless Steel Piping System for Liquids and Gases*

## Catalog





AQUApipe is a complete stainless steel piping system for liquid and gas conveyance in a wide range of applications. Our company has operated for over 20 years within the piping industry. During this time we have become a global leader in innovative design and manufacturing. Continued investment in R&D ensures user and installer feedback influences our innovations.



AQUApipe is a quick, clean, and simple system to install. The technology has evolved the piping industry and offers considerable savings.

AQUApipe is a product brand within the AIRpipe Group. We're committed to total system solutions. Our services unit is available to assist with application questions, system design, take-offs, and training within the liquid and compressed gas piping industry.



## Why use AQUApipe?

- The most economical stainless steel pipe and fitting system from ½" to 10".
- AQUApipe is a proven technology designed with a simple and robust connection for long-term system reliability.
- AQUApipe is a flameless and clean system that greatly shortens repair and installation times, resulting in a +50% reduction to traditional installed costs.
- Seal and material options allow for the conveyance of nearly any liquid or gas.
- AQUApipe press fittings don't require expensive tooling and can be installed in under 1 minute.



You don't have time to deal with welding and threading.



- AQUApipe applied in Compressed Air, Vacuum, Process Waters, Die Coolant, Oil, etc.

# OUR TECHNOLOGY



Clamp connection



## ◀ 5" to 10"

- Clampshell union connector, quick install & re-assembly.
- Convex ring, allowing for a full-bore inner diameter.
- Active concentric sealing for a leak free connection.
- Superior reliability & longevity.



## 1/2" to 4" ▶

- Built-in sealing, options for gases and liquids.
- Extended fitting sleeve to keep pipe straight.
- Quick-press installation to reduce labor.
- Superior reliability & longevity.



## Disadvantages of PPR Pipe



- Aging from UV, not suitable for outdoor installation.
- Bacteria will grow inside the pipe.
- Heat expansion is 8 times that of SS, resulting in risks with high and low temps.
- Inner flow restriction due to fused weld material extruding inside the pipe.

## Disadvantages of Carbon Steel Pipe



- Oxidization and rust on both the interior and exterior.
- High friction of inner surface that will disrupt and pollute the fluid.
- Heavy pipe and high labor cost to weld/thread/flange.



# AQUApipes Features & Benefits



- International standards 304/316 stainless steel.
- Premium quality for water, air/ gas and other compatible fluids.
- Widely used in industries like food & beverage, medical & chemical productions, pharmacy etc.



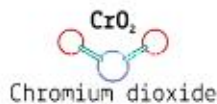
- Wide temperature and chemical range available through seal options.
- Moderate expansion characteristics & high tensile strength.
- No risk of breaking due to water freezing.



- 10 year warranty for all AQUApipes fittings.
- Stability for all extreme weather conditions.
- Elastomeric connections absorb vibration/expansion/ contraction.



- Corrosion resistance due to chromium dioxide layer.
- Smooth inner surface ensure best flow characteristics.
- No risk of contamination to conveyed fluids.



## AQUApipe vs PPR Pipe



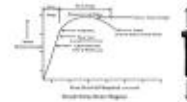
	Items	AQUApipe (304)	PPR pipe	Remark
Corrosion Resistance	Tensile strength(kpsi)	≥75.419	≥7.106	PPR's strength is only 9.2% of AQUApipe.
	UV impact	No impact	Aging	Plastic ages rapidly in UV light.
	Expansion factor(10 <sup>-6</sup> m./°C) (0-100°C)	16	70	Expansion is 8 times of AQUApipe, risk of leaking/ breaking due to temperature change.
	Lowest temperature	-40°F, sealing -454°F	23°F	PPR becomes brittle in subzero temperatures.
	Highest temperature	248°F, sealing 752°F	194°F	Risk of toxic materials separating out of PPR when temps are above 194°F.
Environmental Protection	System Contamination	No	Can occur	Contamination can leech into PPR.
	Toxic materials	No	Possible	Leeching into fluids is possible.
	Odours	No	Possible	Leeching into fluids is possible.
	Recycle	Recycle	Non-degradation	Can not be 100% recycled.
	Lifetime	≥100 years	5-20 years	¼ the lifetime of AQUApipe.

## Physical Performance of Different Pipes



Pipe Materials	Density (lb/ft <sup>3</sup> )	Expansion Factor (10 <sup>-6</sup> m/°C)	Thermal Conductivity (W/m° C)	Specific Heat Conductivity (J/KG° C)	Resistivity (Ωkmm <sup>2</sup> /m)	Young's Modulus (kpsi)	Magnetism
AQUApipes	495	16	15	500	0.72	29	No
Carbon steel pipe	490	11.6	60	60	0.14	30	Yes
Plastic pipe	UPVC	84.3	70	0.05	1470	C.10-18	/
	PE, PEX, PB	59.3	140				
	PP-R	56.2	110				

## Tensile Strength of Metal Pipes



Pipe Type	Material	Tensile Strength (kpsi)	Elongation (%)
AQUApipes	304	75.400~108.750	□35
	304L	69.600~97.150	
	316	75.400~98.600	
	316L	69.600~89.900	
Carbon steel	Carbon steel	33.350~42.050	□30
Copper	Copper	30.450~55.100	□40

## Flow Rate Comparison



Pipe Materials (cfm)	Nominal Diameter					
	½	¾	1	1¼	2	2½
AQUApipes	0.247	0.565	1.2	1.871	6.144	10.488
Copper pipe	0.212	0.53	1.06	1.8	5.65	9.358
Galvanized pipe	0.212	0.459	0.883	1.73	4.873	9.358
Plastic pipe	0.176	0.388	0.847	1.765	5.4	/

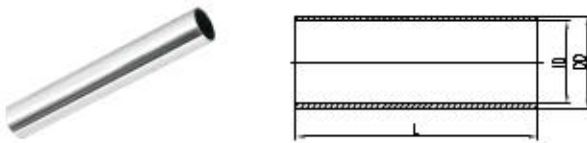
\* Inner roughness of material has a major affect on flow.

# PRODUCT LIST

\* Standard PN's for 304 SS with EPDM seals, 316 SS and different seal materials are available.

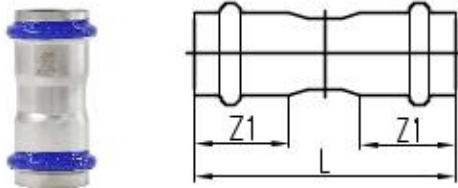
## 304 STAINLESS STEEL PIPE

19.6 ft Length

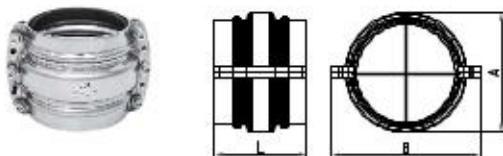


AQUApipe	Pipe OD	Thickness mm	OD(in)	ID(in)	L(ft)
S10000	1/2"	0.8	0.63	0.57	19
S11000	3/4"	1.0	0.79	0.71	19
S12000	1"	1.0	1.00	0.92	19
S13000	1 1/4"	1.2	1.26	1.17	19
S14000	1 1/2"	1.2	1.57	1.48	19
S15000	2"	1.2	2.00	1.91	19
S16000	2 1/2"	1.2	2.50	2.41	19
S17000	3"	1.5	3.00	2.88	19
S18000	4"	1.5	4.00	3.88	19
S1E000	5"	2.0	5.24	5.08	19
S19000	6"	2.0	6.26	6.1	19
S1A000	8"	2.5	8.62	8.43	19
S1B000	10"	3.0	10.75	10.51	19

## PIPE TO PIPE PRESS COUPLING



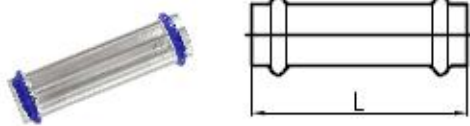
AQUApipe	Pipe OD	L(in)	Z1(in)
S10002	1/2"	2.28	0.83
S11002	3/4"	2.48	0.94
S12002	1"	2.99	1.12
S13002	1 1/4"	3.58	1.38
S14002	1 1/2"	4.41	1.67
S15002	2"	4.92	1.91
S16002	2 1/2"	5.94	2.28
S17002	3"	6.22	2.36
S18002	4"	7.56	3.23



AQUApipe	Pipe OD	L(in)	A(in)	B(in)
S1E002	5"	5.24	7.72	6.42
S19002	6"	5.63	9.06	7.44
S1A002	8"	5.63	11.52	9.80
S1B002	10"	4.37	12.11	13.68

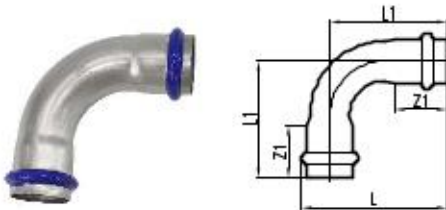
\*Mfg in Steel for 10"

## PIPE TO PIPE SLIDE REPAIR COUPLING

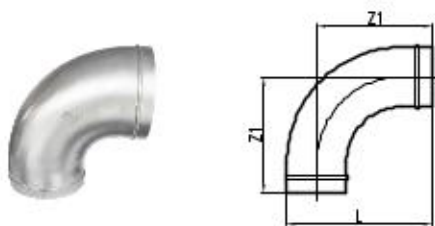


AQUApipeline	Pipe OD	L(in)
S10099	1/2"	3.07
S11099	3/4"	3.70
S12099	1"	4.53
S13099	1 1/4"	5.35
S14099	1 1/2"	6.61
S15099	2"	7.80
S16099	2 1/2"	8.50
S17099	3"	9.37
S18099	4"	11.93

## 90° DEGREE ELBOW



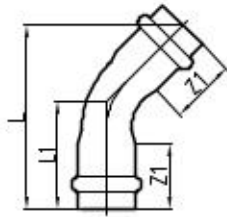
AQUApipeline	Pipe OD	L(in)	Z1(in)	L1(in)
S10003	1/2"	2.32	0.83	1.87
S11003	3/4"	2.89	0.94	2.32
S12003	1"	3.48	1.10	2.81
S13003	1 1/4"	4.17	1.38	3.31
S14003	1 1/2"	5.28	1.67	4.21
S15003	2"	6.42	1.91	5.10
S16003	2 1/2"	8.05	2.28	6.50
S17003	3"	9.13	2.36	7.28
S18003	4"	12.13	3.23	9.65



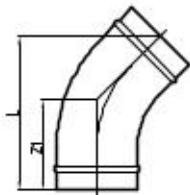
AQUApipeline	Pipe OD	L(in)	Z1(in)
S1E003	5"	12.95	10.22
S19003	6"	14.37	11.12
S1A003	8"	18.74	14.31
S1B003	10"	21.97	16.46

\* Supplied with (2) Union Connectors.

## 45° DEGREE ELBOW



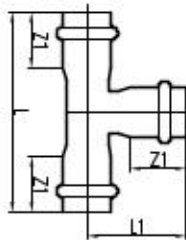
AQUApipe	Pipe OD	L (in)	Z1(in)	L1(in)
S10004	½"	2.36	0.83	1.38
S11004	¾"	2.67	0.94	1.57
S12004	1"	3.19	1.10	1.87
S13004	1 ¼"	3.94	1.38	2.30
S14004	1 ½"	4.84	1.67	2.83
S15004	2"	5.75	1.91	3.37
S16004	2 ½"	7.13	2.28	4.17
S17004	3"	7.76	2.36	4.53
S18004	4"	9.72	3.23	5.71



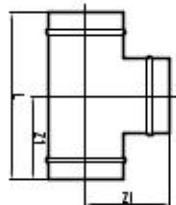
AQUApipe	Pipe OD	L (in)	Z1(in)
S1E004	5"	9.96	5.83
S19004	6"	10.71	6.28
S1A004	8"	13.01	7.62
S1B004	10"	14.7	8.62

\* Supplied with (2) Union Connectors.

## EQUAL TEE



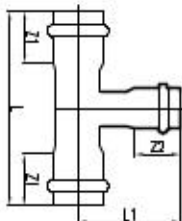
AQUApipe	Pipe OD	L (in)	Z1(in)	L1(in)
S10005	½"	2.95	1.46	0.83
S11005	¾"	3.46	1.65	0.94
S12005	1"	4.25	2.03	1.10
S13005	1 ¼"	5.12	2.52	1.38
S14005	1 ½"	6.46	3.07	1.67
S15005	2"	7.36	3.52	1.91
S16005	2 ½"	8.66	4.29	2.28
S17005	3"	9.33	4.65	2.36
S18005	4"	11.97	5.87	3.23



AQUApipe	Pipe OD	L (in)	Z1(in)
S1E005	5"	11.69	5.85
S19005	6"	13.35	6.67
S1A005	8"	15.59	7.80
S1B005	10"	18.35	9.17

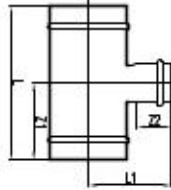
\* Supplied with (3) Union Connectors.

## REDUCING TEE



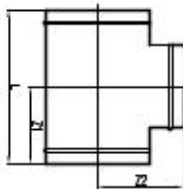
AQUApipe	Pipe OD	Pipe OD	L(in)	Z1(in)	Z2(in)	L1(in)
S11007	3/4"	1/2"	3.46	0.94	0.83	1.87
S12007	1"	1/2"	4.25	1.10	0.83	1.97
S12107	1"	3/4"	4.25	1.10	0.94	2.24
S13007	1 1/4"	1/2"	5.12	1.38	0.83	2.11
S13107	1 1/4"	3/4"	5.12	1.38	0.94	2.36
S13207	1 1/4"	1"	5.12	1.38	1.10	2.17
S14007	1 1/2"	1/2"	6.46	1.67	0.83	2.26
S14107	1 1/2"	3/4"	6.46	1.67	0.94	2.52
S14207	1 1/2"	1"	6.46	1.67	1.10	2.28
S14307	1 1/2"	1 1/4"	6.46	1.67	1.38	2.56
S15007	2"	1/2"	7.36	1.91	0.83	2.52
S15107	2"	3/4"	7.36	1.91	0.94	2.78
S15207	2"	1"	7.36	1.91	1.10	2.52
S15307	2"	1 1/4"	7.36	1.91	1.38	2.83
S15407	2"	1 1/2"	7.36	1.91	1.67	3.23
S16007	2 1/2"	1/2"	8.66	2.28	0.83	2.76
S16107	2 1/2"	3/4"	8.66	2.28	0.94	3.03
S16207	2 1/2"	1"	8.66	2.28	1.10	2.8
S16307	2 1/2"	1 1/4"	8.66	2.28	1.38	3.07
S16407	2 1/2"	1 1/2"	8.66	2.28	1.67	3.54
S16507	2 1/2"	2"	8.66	2.28	1.91	3.74
S17007	3"	1/2"	9.33	2.36	0.83	3.03
S17107	3"	3/4"	9.33	2.36	0.94	3.31
S17207	3"	1"	9.33	2.36	1.10	3.27
S17307	3"	1 1/4"	9.33	2.36	1.38	3.35
S17407	3"	1 1/2"	9.33	2.36	1.67	3.82
S17507	3"	2"	9.33	2.36	1.91	4.02
S17607	3"	2 1/2"	9.33	2.36	2.28	4.53
S18107	4"	3/4"	11.97	3.23	0.94	3.82
S18207	4"	1"	11.97	3.23	1.10	3.54
S18307	4"	1 1/4"	11.97	3.23	1.38	3.82
S18407	4"	1 1/2"	11.97	3.23	1.67	4.29
S18507	4"	2"	11.97	3.23	1.91	4.49
S18607	4"	2 1/2"	11.97	3.23	2.28	5.04
S18707	4"	3"	11.97	3.23	2.36	5.12

## REDUCING TEE



AQUApipe	Pipe OD	Pipe OD	L(in)	Z1(in)	Z2(in)	L1(in)
S1E607	5"	2 1/2"	10.55	5.28	2.28	5.69
S1E707	5"	3"	11.02	5.51	2.36	5.81
S1E807	5"	4"	12.32	6.16	3.23	6.48
S19607	6"	2 1/2"	10.75	5.37	2.28	6.18
S19707	6"	3"	11.22	5.61	2.36	6.28
S19807	6"	4"	12.20	6.10	3.23	6.87
S1A607	8"	2 1/2"	10.43	5.22	2.28	7.36
S1A707	8"	3"	11.02	5.51	2.36	7.46
S1A807	8"	4"	12.20	6.10	3.23	8.17
S1B607	10"	2 1/2"	9.40	4.70	2.28	8.43
S1B707	10"	3"	11.10	5.55	2.36	8.52
S1B807	10"	4"	12.40	6.20	3.23	9.11

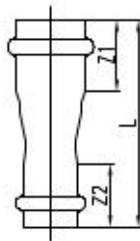
\* Supplied with (2) Union Connectors.



AQUApipe	Pipe OD	Pipe OD	L(in)	Z1(in)	Z2(in)
S19E07	6"	5"	11.65	5.83	6.61
S1AE07	8"	5"	12.01	6.00	7.68
S1A907	8"	6"	13.31	6.65	7.85
S1BE07	10"	5"	12.36	6.18	8.86
S1B907	10"	6"	13.74	6.87	8.98
S1BA07	10"	8"	16.02	8.01	8.94

\* Supplied with (3) Union Connectors.

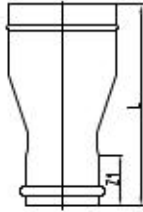
## REDUCING PIPE TO PIPE JOINT



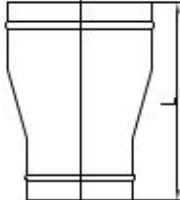
AQUApipe	Pipe OD	Pipe OD	L(in)	Z1(in)
S1E621	5"	2 1/2"	9.07	2.28
S1E721	5"	3"	9.09	2.36
S1E821	5"	4"	10.35	3.23
S19621	6"	2 1/2"	9.11	2.28
S19721	6"	3"	9.13	2.36
S19821	6"	4"	10.79	3.23
S1A621	8"	2 1/2"	10.89	2.28
S1A721	8"	3"	10.91	2.36
S1A821	8"	4"	10.98	3.23
S1B621	10"	2 1/2"	11.12	2.28
S1B721	10"	3"	11.14	2.36
S1B821	10"	4"	11.22	3.23

\* A Union Connector is Supplied on 5" to 10" Connections.

**REDUCING PIPE TO PIPE JOINT**



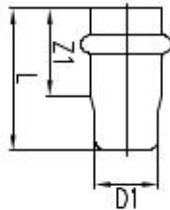
AQUApipe	Pipe OD	Pipe OD	L(in)	Z1(in)	Z2(in)
S11021	3/4"	1/2"	2.70	0.94	0.83
S12021	1"	1/2"	2.95	1.10	0.83
S12121	1"	3/4"	3.07	1.10	0.94
S13021	1 1/4"	1/2"	3.33	1.38	0.83
S13121	1 1/4"	3/4"	3.35	1.38	0.94
S13221	1 1/4"	1"	3.70	1.38	1.10
S14021	1 1/2"	1/2"	3.78	1.67	0.83
S14121	1 1/2"	3/4"	3.86	1.67	0.94
S14221	1 1/2"	1"	4.06	1.67	1.10
S14321	1 1/2"	1 1/4"	4.49	1.67	1.38
S15021	2"	1/2"	4.19	1.91	0.83
S15121	2"	3/4"	4.25	1.91	0.94
S15221	2"	1"	4.43	1.91	1.10
S15321	2"	1 1/4"	4.69	1.91	1.38
S15421	2"	1 1/2"	5.31	1.91	1.67
S16021	2 1/2"	1/2"	5.00	2.28	0.93
S16121	2 1/2"	3/4"	5.02	2.28	0.94
S16221	2 1/2"	1"	5.20	2.28	1.10
S16321	2 1/2"	1 1/4"	5.45	2.28	1.38
S16421	2 1/2"	1 1/2"	5.73	2.28	1.67
S16521	2 1/2"	2"	5.83	2.28	1.91
S17121	3"	3/4"	5.43	2.36	0.94
S17221	3"	1"	5.59	2.36	1.10
S17321	3"	1 1/4"	5.79	2.36	1.38
S17421	3"	1 1/2"	6.10	2.36	1.67
S17521	3"	2"	6.22	2.36	1.91
S17621	3"	2 1/2"	6.65	2.36	2.28
S18221	4"	1"	6.50	3.23	1.10
S18321	4"	1 1/4"	6.73	3.23	1.38
S18421	4"	1 1/2"	7.05	3.23	1.67
S18521	4"	2"	7.17	3.23	1.91
S18621	4"	2 1/2"	7.56	3.23	2.28
S18721	4"	3"	7.52	3.23	2.36



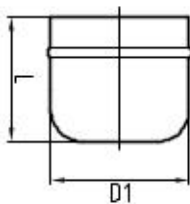
AQUApipe	Pipe OD	Pipe OD	L(in)
S19E21	6"	5"	11.22
S1A921	8"	6"	11.81
S1B921	10"	6"	13.03
S1BA21	10"	8"	13.23

\* Supplied with (2) Union Connectors.

## END CAP



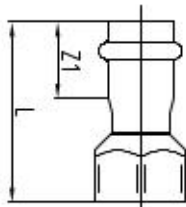
AQUApipe	Pipe OD	L(in)	D1(in)	Z1(in)
S10006	½"	1.46	0.63	0.83
S11006	¾"	1.57	0.79	0.94
S12006	1"	1.77	1.00	1.10
S13006	1 ½"	2.11	1.26	1.38
S14006	1 ½"	2.52	1.57	1.67
S15006	2"	2.78	2.00	1.91
S16006	2 ½"	3.46	2.54	2.28
S17006	3"	3.64	3.04	2.36
S18006	4"	4.27	4.04	3.23



AQUApipe	Pipe OD	L(in)	D1(in)
S1E006	5"	4.72	5.24
S19006	6"	5.12	6.26
S1A006	8"	5.67	8.62
S1B006	10"	6.50	10.75

\* Supplied with (1) Union Connector.

## FEMALE NPT ADAPTER



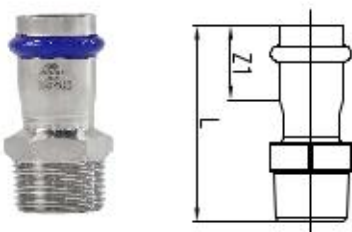
AQUApipe	Pipe OD	Female NPT	L(in)	Z1(in)
S10019	½"	½"	2.05	0.83
S10119	½"	¾"	2.03	0.83
S11019	¾"	½"	1.99	0.94
S11119	¾"	¾"	2.13	0.94
S11519	¾"	1"	2.24	0.94
S12019	1"	½"	2.50	1.10
S12119	1"	¾"	2.42	1.10
S12129	1"	1"	2.60	1.10
S12319	1"	1 ¼"	2.76	1.10
S13219	1 ¼"	1"	2.93	1.38
S13319	1 ¼"	1 ¼"	3.01	1.38
S13419	1 ¼"	1 ½"	3.13	1.38
S14319	1 ½"	1 ¼"	3.43	1.67
S14419	1 ½"	1 ½"	3.50	1.67
S15419	2"	1 ½"	3.92	1.91
S15519	2"	2"	3.84	1.91
S16619	2 ½"	2 ½"	2.93	2.28
S17619	3"	2 ½"	4.76	2.36

### FEMALE NPT SWIVEL ADAPTER



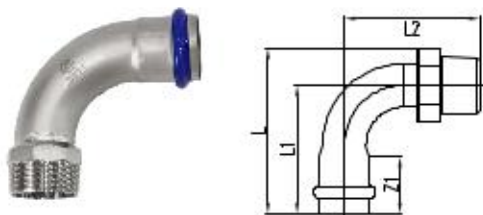
AQUApipe	Pipe OD	Female NPT	L(in)	Z1(in)
S10018	1/2"	1/2"	2.28	0.83
S11118	3/4"	3/4"	2.42	0.94
S12218	1"	1"	2.83	1.10
S13318	1 1/4"	1 1/4"	3.15	1.38
S14418	1 1/2"	1 1/2"	3.70	1.67
S15518	2"	2"	4.19	1.91

### MALE NPT ADAPTER



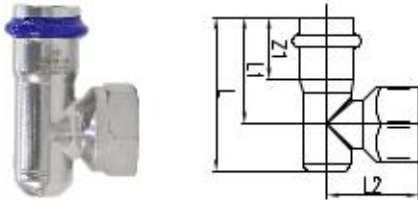
AQUApipe	Pipe OD	Male NPT	L(in)	Z1(in)
S10017	1/2"	1/2"	2.28	0.83
S10117	1/2"	3/4"	2.46	0.83
S11017	3/4"	1/2"	2.30	0.94
S11117	3/4"	3/4"	2.36	0.94
S11217	3/4"	1"	2.58	0.94
S12017	1"	1/2"	3.03	1.10
S12117	1"	3/4"	2.62	1.10
S12217	1"	1"	2.76	1.10
S12317	1"	1 1/4"	3.13	1.10
S13217	1 1/4"	1"	3.35	1.38
S13317	1 1/4"	1 1/4"	3.21	1.38
S13417	1 1/4"	1 1/2"	3.94	1.38
S14317	1 1/2"	1 1/4"	3.90	1.67
S14417	1 1/2"	1 1/2"	3.66	1.67
S15417	2"	1 1/2"	3.92	1.91
S15517	2"	2"	4.23	1.91
S16617	2 1/2"	2 1/2"	5.02	2.28
S17617	3"	2 1/2"	4.92	2.36

### MALE NPT 90° DEG. ELBOW



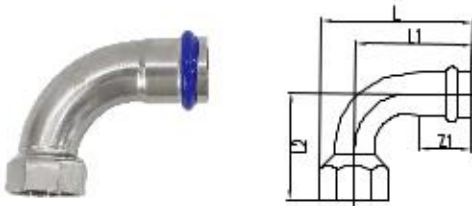
AQUApipe	Pipe OD	Male NPT	L(in)	L1(in)	L2(in)	Z1(in)
S10015	1/2"	1/2"	0.32	1.87	1.97	0.83
S11015	3/4"	1/2"	2.80	2.32	2.17	0.94
S11115	3/4"	3/4"	2.87	3.32	2.22	0.94
S12115	1"	3/4"	3.37	2.81	2.52	1.10
S12215	1"	1"	3.50	2.81	2.74	1.10
S13215	1 1/4"	1"	4.02	3.31	3.03	1.38
S13315	1 1/4"	1 1/4"	4.17	3.31	3.27	1.38
S14315	1 1/2"	1 1/4"	5.08	4.21	3.78	1.67
S14415	1 1/2"	1 1/2"	5.30	4.21	3.86	1.67
S15415	2"	1 1/2"	6.18	5.10	4.49	1.91
S15515	2"	2"	6.36	5.10	4.72	1.91

**FEMALE SHORT NPT  
90° DEG. ELBOW**



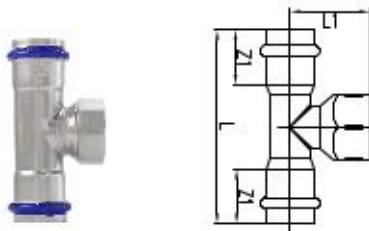
AQUApipe	Pipe OD	Female NPT	L(in)	L1(in)	L2(in)	Z1(in)
S10014	½"	½"	2.81	2.24	0.87	0.83
S11014	¾"	½"	3.23	2.66	1.00	0.94
S11114	¾"	¾"	3.35	2.66	1.06	0.94
S12114	1"	¾"	2.72	2.01	1.46	1.10
S12214	1"	1"	3.39	2.54	1.14	1.10
S13214	1 ¼"	1"	3.66	2.42	1.69	1.38
S13314	1 ¼"	1 ¼"	3.78	2.42	1.93	1.38

**FEMALE NPT 90° DEG. ELBOW**

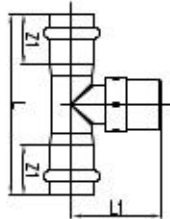


AQUApipe	Pipe OD	Female NPT	L(in)	L1(in)	L2(in)	Z1(in)
S10013	½"	½"	2.36	1.87	1.73	0.83
S11013	¾"	½"	2.81	2.32	1.81	0.94
S11113	¾"	¾"	2.91	2.32	1.99	0.94
S12113	1"	¾"	3.41	2.81	2.22	1.10
S12213	1"	1"	3.54	2.81	2.38	1.10
S13213	1 ¼"	1"	4.02	3.31	2.87	1.38
S13313	1 ¼"	1 ¼"	4.21	3.31	2.95	1.38
S14413	1 ½"	1 ½"	5.28	4.21	3.54	1.67
S15513	2"	2"	6.38	5.10	4.49	1.91

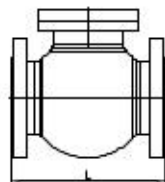
**FEMALE NPT TEE**



AQUApipe	Pipe OD	Female NPT	L(in)	L1(in)	Z1(in)
S10067	½"	½"	2.95	1.30	0.83
S11067	¾"	½"	3.54	1.38	0.94
S11167	¾"	¾"	3.54	1.36	0.94
S12167	1"	¾"	4.25	1.46	1.10
S12267	1"	1"	4.25	1.69	1.10
S13267	1 ¼"	1"	5.12	1.81	1.38
S13367	1 ¼"	1 ¼"	5.12	1.93	1.38

**MALE NPT TEE**


AQUApipe	Pipe OD	Male NPT	L(in)	Z1(in)	Z2(in)
S10065	1/2"	1/2"	2.95	1.46	0.83
S11065	3/4"	1/2"	3.54	1.54	0.94
S11165	3/4"	3/4"	3.54	1.59	0.94
S12065	1"	1/2"	4.25	1.65	1.10
S12165	1"	3/4"	4.25	1.69	1.10
S12265	1"	1"	4.25	1.93	1.10
S13065	1 1/4"	1/2"	5.12	1.77	1.38
S13165	1 1/4"	3/4"	5.12	1.83	1.38
S13265	1 1/4"	1"	5.12	2.05	1.38
S13365	1 1/4"	1 1/4"	5.12	2.24	1.38
S14065	1 1/2"	1/2"	6.46	1.93	1.67
S14165	1 1/2"	3/4"	6.46	1.99	1.67
S14265	1 1/2"	1"	6.46	2.20	1.67
S14365	1 1/2"	1 1/4"	6.46	2.40	1.67
S14465	1 1/2"	1 1/2"	6.46	2.32	1.67
S15065	2"	1/2"	7.36	2.17	1.91
S15165	2"	3/4"	7.36	2.24	1.91
S15265	2"	1"	7.36	2.46	1.91
S15365	2"	1 1/4"	7.36	2.66	1.91
S15465	2"	1 1/2"	7.36	2.58	1.91
S15565	2"	2"	7.36	2.76	1.91

**SWING CHECK VALVE**


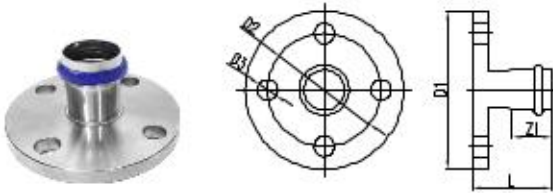
AQUApipe	Female NPT	L(in)
S14480	1 1/2"	4.41
S15580	2"	5.24

\* NPT male threaded joints are needed for 1 1/2" and 2".

AQUApipe	Female NPT	L(in)
S16680	2 1/2"	8.50
S17780	3"	9.49
S18880	4"	11.50
S1EE80	5"	14.02
S19980	6"	15.98
S1AA80	8"	19.49
S1BB80	10"	24.49

\* ANSI flanges are needed for 2 1/2" to 10".

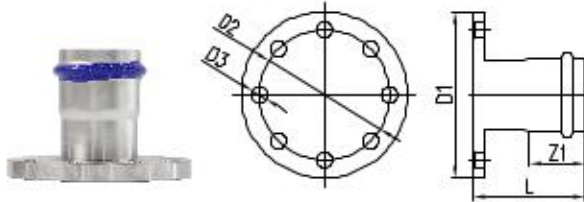
### ANSI FLANGE CONNECTION



AQUApipe	Pipe size	L(in)	Z1(in)	D1(in)	D2(in)	D3(in)
<b>S13170</b>	1 ¼"	2.72	1.38	4.53	3.50	0.63
<b>S14170</b>	1 ½"	2.39	1.67	5.00	3.88	0.63
<b>S15170</b>	2"	3.84	1.91	5.98	4.78	0.71
<b>S16170</b>	2 ½"	4.61	2.28	7.09	5.50	0.71
<b>S17170</b>	3"	4.96	2.36	7.48	5.98	0.71
<b>S18170</b>	4"	6.26	3.23	9.06	7.50	0.71

- \* Includes EPDM and class 150 flange.
- \* Flange size: 1 ¼", 1 ½", 2", 2 ½", 3", includes 4 bolts.
- \* Flange size: 4", includes 8 bolts.

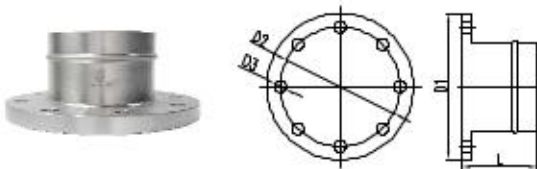
### ANSI REDUCING FLANGE CONNECTION



AQUApipe	Pipe size	L(in)	Z1(in)	D1(in)	D2(in)	D3(in)
<b>S16571</b>	2 ½"-2"	3.96	1.91	7.09	5.51	0.71
<b>S16771</b>	2 ½"-3"	4.94	2.36	7.09	5.51	0.71
<b>S17871</b>	3"-4"	6.26	3.23	7.09	5.98	0.71
<b>S1E871</b>	5"-4"	6.34	3.23	10.04	5.98	0.87

- \* Includes EPDM and class 150 flange.
- \* Flange size: 2", 3", includes 4 bolts.
- \* Flange size: 4", includes 8 bolts.

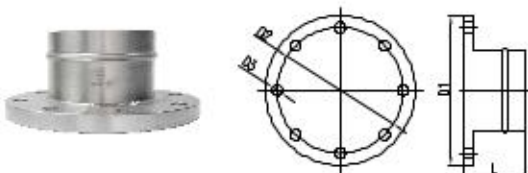
### ANSI FLANGE CONNECTION



AQUApipe	Pipe size	L(in)	D1(in)	D2(in)	D3(in)
<b>S1E170</b>	5"	4.33	10.04	8.50	0.87
<b>S19170</b>	6"	4.78	11.02	9.49	0.87
<b>S1A170</b>	8"	4.53	13.58	11.75	0.87
<b>S1B170</b>	10"	4.53	15.94	14.25	1.02

- \* Supplied with (1) Union Connector.
- \* Includes EPDM and class 150 flange.
- \* Flange size: 5", 6", 8", includes 8 bolts.
- \* Flange size: 10", includes 12 bolts.

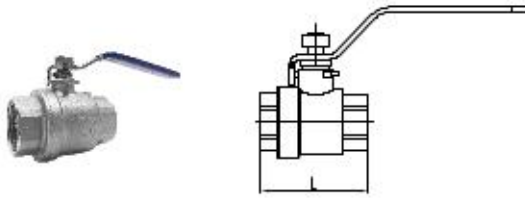
### ANSI REDUCING FLANGE CONNECTION



AQUApipe	Pipe size	L(in)	D1(in)	D2(in)	D3(in)
<b>S18E71</b>	4"-5"	4.25	9.06	7.05	0.71
<b>S1E971</b>	5"-6"	4.53	10.04	8.50	0.87
<b>S19E71</b>	6"-5"	4.33	11.02	9.49	0.87
<b>S1A971</b>	8"-6"	4.78	13.58	11.75	0.87
<b>S1BA71</b>	10"-8"	5.14	15.94	14.25	1.02

- \* Supplied with (1) Union Connector.
- \* Includes EPDM and class 150 flange.
- \* Flange size: 5", 6", 8", includes 8 bolts.

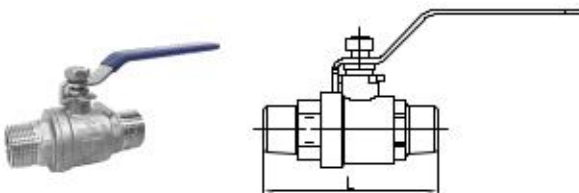
### DOUBLE FEMALE NPT LOCKING BALL VALVE



AQUApipe	Male NPT	L(in)
S10056	½"	2.11
S11156	¾"	2.52
S12256	1"	2.97
S13356	1 ¼"	3.33
S14456	1 ½"	3.72
S15556	2"	4.21

\* Valve body seal: PTFE.

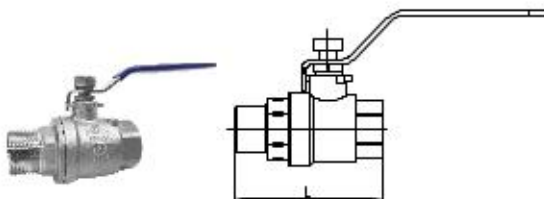
### DOUBLE MALE NPT LOCKING BALL VALVE



AQUApipe	Male NPT	L(in)
S10057	½"	3.13
S11157	¾"	3.70
S12257	1"	3.88
S13357	1 ¼"	4.70
S14457	1 ½"	5.12
S15557	2"	5.33

\* Valve body seal: PTFE.

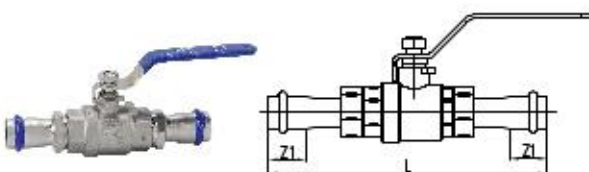
### MALE X FEMALE NPT LOCKING BALL VALVE



AQUApipe	Male and Female NPT	L(in)
S10058	½"	2.83
S11158	¾"	3.15
S12258	1"	3.44
S13358	1 ¼"	4.07
S14458	1 ½"	4.57
S15558	2"	4.84

\* Valve body seal: PTFE.

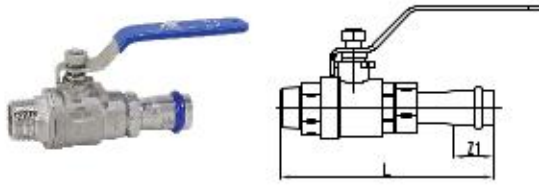
### LOCKING BALL VALVE WITH PRESS FITTING ENDS



AQUApipe	Pipe OD	L(in)	Z1(in)
S10052	½"	6.44	0.83
S11052	¾"	7.20	0.94
S12052	1"	8.37	1.10
S13052	1 ¼"	10.08	1.38
S14052	1 ½"	11.38	1.67
S15052	2"	12.44	1.91

\* Valve body seal: PTFE.

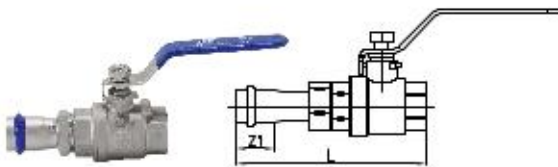
**LOCKING BALL VALVE WITH MALE (NPT) AND PRESS FITTING END**



AQUApipe	Pipe OD	Male NPT	L(in)	Z1(in)
S10053	1/2"	1/2"	4.78	0.83
S11153	3/4"	3/4"	5.45	0.94
S12253	1"	1"	6.12	1.10
S13353	1 1/4"	1 1/4"	7.42	1.38
S14453	1 1/2"	1 1/2"	8.27	1.67
S15553	2"	2"	8.78	1.91

\* Valve body seal: PTFE.

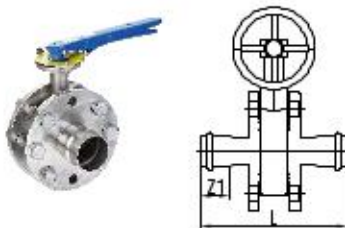
**LOCKING BALL VALVE WITH FEMALE (NPT) AND PRESS FITTING END**



AQUApipe	Pipe OD	Female NPT	L(in)	Z1(in)
S10054	1/2"	1/2"	4.47	0.83
S11154	3/4"	3/4"	4.76	0.94
S12254	1"	1"	5.73	1.10
S13354	1 1/4"	1 1/4"	6.52	1.38
S14454	1 1/2"	1 1/2"	7.72	1.67
S15554	2"	2"	8.39	1.91

\* Valve body seal: PTFE.

**LOCKING HANDLE BUTTERFLY VALVE**



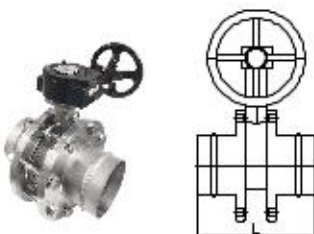
AQUApipe	Pipe OD	L(in)	Z1(in)
S16052	2 1/2"	11.18	2.28
S17052	3"	11.85	2.36
S18052	4"	14.69	3.23

\* Valve body seal: EPDM.

\* Supplied with (2) Union Connectors.

\* Flanges are preassembled .

**LOCKABLE TURBINE HANDLE BUTTERFLY VALVE**



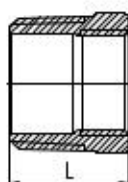
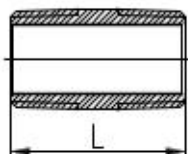
AQUApipe	Pipe OD	L(in)
S1E052	5"	10.98
S19052	6"	11.91
S1A052	8"	11.56
S1B052	10"	11.87

\* Valve body seal: EPDM.

\* Supplied with (2) Union Connectors.

\* Flanges are preassembled .

## THREADED PIPE ADAPTERS (NPT)



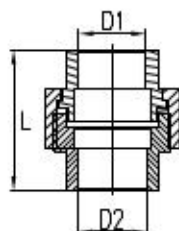
### MALE x MALE

AQUApipes	Male NPT	Male NPT
S10031	½"	½"
S11131	¾"	¾"
S12231	1"	1"
S13331	1 ¼"	1 ¼"
S14431	1 ½"	1 ½"
S15531	2"	2"
S18350	½"	1 ¼"
S11031	¾"	½"
S18150	1"	¾"

### MALE x FEMALE

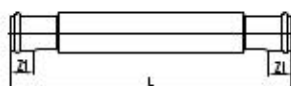
AQUApipes	Male NPT	Female NPT
S18750	¾"	1"
S18050	1"	½"

## 3 PIECE FEMALE NPT UNION



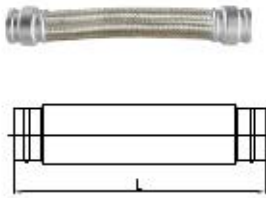
AQUApipes	Female NPT	L(in)	D1(in)	D2(in)
S10020	½"	1.54	0.5	0.5
S11120	¾"	1.71	0.75	0.75
S12220	1"	1.85	1.00	1.00
S13320	1 ¼"	2.15	1.25	1.25
S14420	1 ½"	2.28	1.50	1.50
S15520	2"	2.52	2.00	2.00

## FLEXIBLE METAL HOSE



AQUApipes	Pipe OD	L(in)	Z1(in)
S10055	½"	11.81	0.83
S11155	¾"	11.81	0.94
S12255	1"	11.81	1.10
S13055	1 ¼"	11.81	1.38
S14055	1 ½"	11.81	1.67
S15055	2"	11.81	1.91
S16055	2 ½"	19.69	2.28
S17055	3"	19.69	2.36
S18055	4"	19.69	3.23

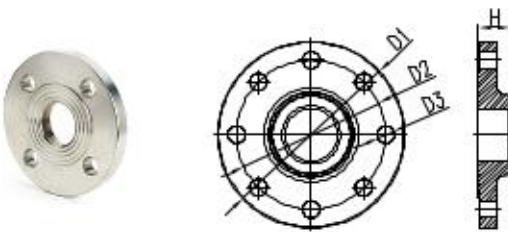
## FLEXIBLE METAL HOSE



AQUApipe	Pipe OD	L(in)
S1E055	5"	19.69
S19055	6"	19.69
S1A055	8"	19.69
S1B055	10"	19.69

\* Supplied with (2) Union Connectors.

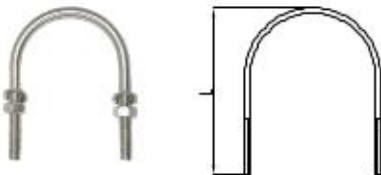
## THREADED FEMALE ANSI FLANGE



AQUApipe	Flange size	Female NPT	D1(in)	D2(in)	D3(in)	H(in)
S14470	1 1/2"	1 1/2"	4.92	3.88	0.63	0.87
S15570	2"	2"	5.91	4.74	0.71	0.98
S17270	3"	1"	7.48	6.00	0.71	1.18
S17470	3"	1 1/2"	7.48	6.00	0.71	1.18
S17570	3"	2"	7.48	6.00	0.71	1.18
S18470	4"	1 1/2"	9.06	7.50	0.71	1.30
S18570	4"	2"	9.06	7.50	0.71	1.30
S18670	4"	2 1/2"	9.06	7.50	0.71	1.30
S1E470	5"	1 1/2"	10.04	8.52	0.71	1.57
S1E570	5"	2"	10.04	8.52	0.71	1.57
S1E670	5"	2 1/2"	10.04	8.52	0.71	1.57
S1E770	5"	3"	10.04	8.52	0.71	1.57
S19470	6"	1 1/2"	11.02	9.51	0.87	1.57
S19570	6"	2"	11.02	9.51	0.87	1.57
S19670	6"	2 1/2"	11.02	9.51	0.87	1.57
S19770	6"	3"	11.02	9.51	0.87	1.57

\* Includes bolts and EPDM gasket.  
 \* 1" to 3" are 4-bolt class 150 flanges.  
 \* 4" to 8" are 8-bolt class 150 flanges.

## U-BOLT PIPE CLAMP



AQUApipe	Pipe OD	L(in)
S10122	1/2"	1.34
S11122	3/4"	1.57
S12122	1"	1.81
S13122	1 1/4"	2.13
S14122	1 1/2"	2.76
S15122	2"	3.15
S16122	2 1/2"	3.54
S17122	3"	4.06
S18122	4"	5.59
S1E122	5"	6.65
S19122	6"	7.56
S1A122	8"	10.35
S1B122	10"	12.44

### STAINLESS STEEL EXACT SAW



AQUApipe	Pipe OD
0344	1" to 8"
0345	10"

### STAINLESS STEEL BLADE



AQUApipe	Note
S10141	Exact (CERMET 140) SS blade for PN 0344
S10341	Exact (INOX THIN) 10" (SCH10) SS blade for PN 0345

### STAINLESS STEEL PIPE CUTTER



AQUApipe	Pipe OD
S10040	½" to 2"
S10240	SS Cutting Blade for S10040

### ID DEBURR TOOL / O-RING PICK



AQUApipe	Note
0141	For all diameters
S3000P	O-ring pick

### ELECTRIC PIPE LUGGING MACHINE



AQUApipe	Pipe OD
S10544	5" to 10"

\* Supplied with 1 pipe stand.

### AQUAPIPE DEMO KIT






AQUApipe
S10146

# Technical Specifications



- The Max. Working Pressure for 6" and below is 200psi;  
The Max. Working Pressure for 8" is 188psi;  
The Max. Working Pressure for 10" is 188psi;
- Max. vacuum: 1mbar/ 0.03inhg (Full industrial vacuum).
- Working temperature range & fluid medium table:

Sealing	Description	Color	Working Temperature	Main Applicable Medium
EPDM (NSF-61&372) <small>*5"-10"are not certified NSF-61&amp;372</small>	Ethylene Propylene Diene Monomer	 Black	-20°C to 120°C -4°F to 248°F	Chilled/Cooling Water; Waste Waters; Hydronic Heating; Low Pressure Steam; Fire Water System; Potable Water.
FKM/FPM	Viton Fluoroelastomer	 Brown	-20°C to 200°C -4°F to 392°F	High Temp. Steam & Gas, Solar, Heating, Compressed Air, Acid Solutions, Chemicals, Inert Gases.
NBR	Nitrile Butadiene Rubber	 Yellow	-20°C to 100°C -4°F to 212°F	Hydraulic Oils, Inert Gases, Compressed Air, Lubricants.

## Main Applications

AQUApipe is designed to convey fluids and gases used in a variety of applications including:

- Chilled/Cooling Water
- Process Water
- Compressed Air and Inert Gases
- Chemicals
- Acid Solutions
- Caustic Solutions
- Hot Water, potable water
- Low-Pressure Steam (15 psi max)
- Vacuum
- Hydraulic Oils
- Waste Waters
- DEF



# Quick & Easy Installation

## Press Tools



AQUApipe	Description	Range
S1HD44	Heavy duty press gun for ½" to 4" press connections (5 tons of force). Press jaws not included.	½" to 4"



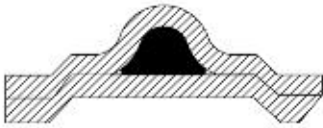
AQUApipe	Description	Range
S1SK44	Small diameter press jaw kit (Includes jaws and master head for ½" to 2").	½" to 2"



AQUApipe	Description	Range
S1LK44	Large diameter press jaw kit (Includes jaws and master head for 2 ½" to 4").	2 ½" to 4"

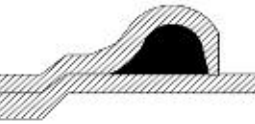
## AQUApipe Press Connection VS Traditional Press Connection

### AQUApipe Press Connection

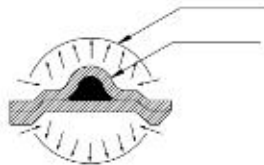


All AQUApipe fittings are designed with extended fitting ends to keep the pipe aligned straight out of the fitting.

VS

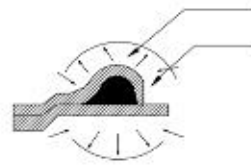


Misalignment can result in premature seal aging.

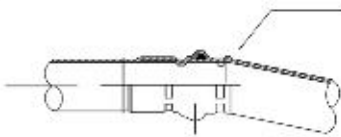


AQUApipe fittings keep uniform pressure distribution to eliminate seal extrusion.

VS

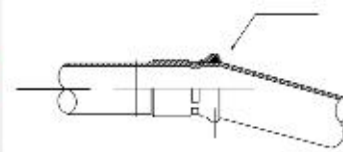


Fitting side weakness can lead to seal extrusion.



AQUApipe fittings create a permanent connection without risk of leaking after bending/expansion/contraction/vibration.

VS



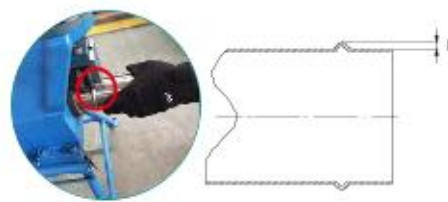
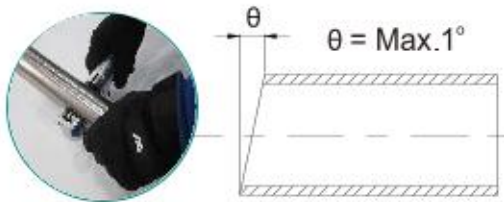
There is a risk of leaking from bending/expansion/contraction/vibration.

### Identify pressed fittings with our plastic wraps (1/2" to 10")



Pipe cuts for 1/2" to 10"

Lug Height for 5" to 10"



Size	h (mm)
DN125	3.8-4.0
DN150	3.8-4.0
DN200	3.8-4.0
DN250	3.8-4.0

**Torque ratings for 5" to 10"**  
(The clamshell halves must be flushed together to complete assembly.)



Size	Bolt	Max. Torque	Allen Key
DN125	M8	32	6mm
DN150	M10	65	8mm
DN200	M10	65	8mm
DN250	M12	118	10mm

## 1/2" to 4" Press Connection



Use pipe cutter to cut the pipe.



Deburr and chamfer the pipe end.



Visually check the seal is seated.



Verify complete press. Finished.



Press the fitting using the proper AQUApipe jaw, and a press tool.



Mark insertion depth.

## 5" to 10" Clamshell Connection



Use cutting machine to cut the pipe.



Deburr and chamfer the pipe end.



Use AQUApipe lugging machine to lug the pipe.



Flush the clamshell halves together. Finished.

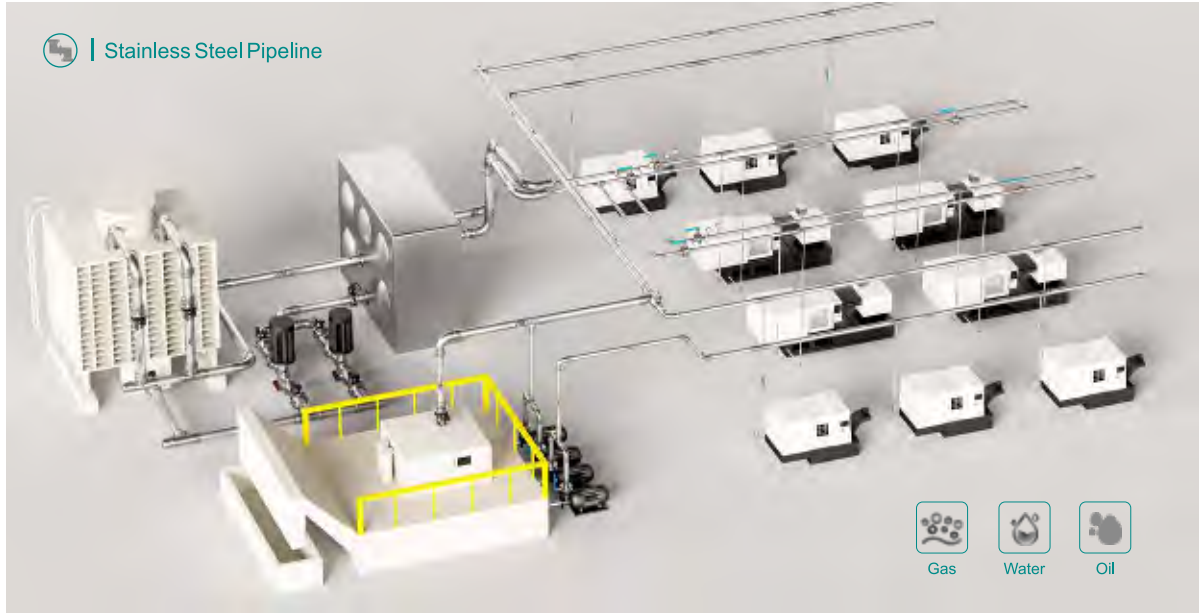


Position the clamshell over the sealing element, ensuring the lugs align with the grooves.



Insert the pipe ends into the seal to 2-3 cm on each side.

# Applications



## Industrial Installations



● Compressed Air for Foods.



● Cooling water for new Material.



● Oil and Cooling water for Machinery.



● Cooling water for IT industry.



● Die Coolant for Packaging (DN250).



● Compressed Air, Nitrogen, Natural Gas, Oxygen, Argon, Cooling Water for LED.

# One-stop Service

AQUApipe provides “**One-stop Service**” worldwide. Our global network means you're neverfar from support for your project.



**DESIGN**



**INSTALLATION  
& GUIDANCE**



**WARRANTY  
& AFTER SERVICE**



**QUOTATION**



**DELIVERY**



**FULL RANGE  
PRODUCTS**



## Warranty and Certifications

The AIRpipe Group warranties AQUApipe products to be free of defects in material for a period of ten years from the date of product purchase.

AQUApipe does not warrant the design, assembly or installation of the system, but only the components with an official AQUApipe logo. AQUApipe is not responsible for improper assembly, installation, or for any modifications of the product.

## The warranty is void upon:

1. Failure to follow assembly or installation guidelines;
2. Alteration, misuse or abuse of, or damage to the products;
3. Operation beyond the design range, excessive pressure, stress, or mishandling in any way;
4. Use other than for the intended purpose or in a manner other than specified by AIRpipe.

## Certifications and Compliances:

ISO 9001 version 2015  
ISO 14001 version 2015  
ISO 45001 version 2018  
ASME, UL, TUV, CE, EN and TS





\* We provide superior performing compressed air & fluid systems with engineered longevity to reduce operating costs and improve productivity.

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\* AQUAPipe is a product brand in AIRpipe Group.

Publication AIRpipe – #01/2024/EN/AP  
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