

U-PVC K62®

PRESSURE FITTINGS



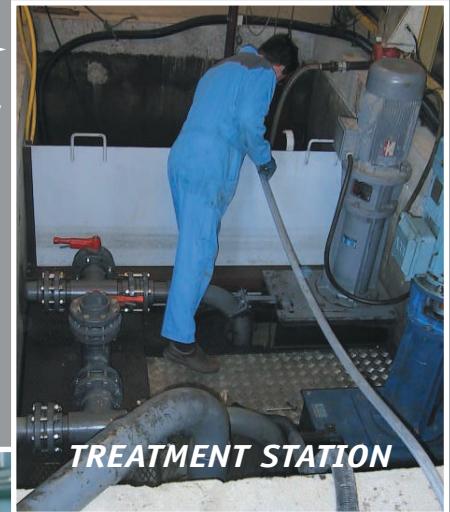
safety for your pipeworks

MULTIPLE APPLICATIONS

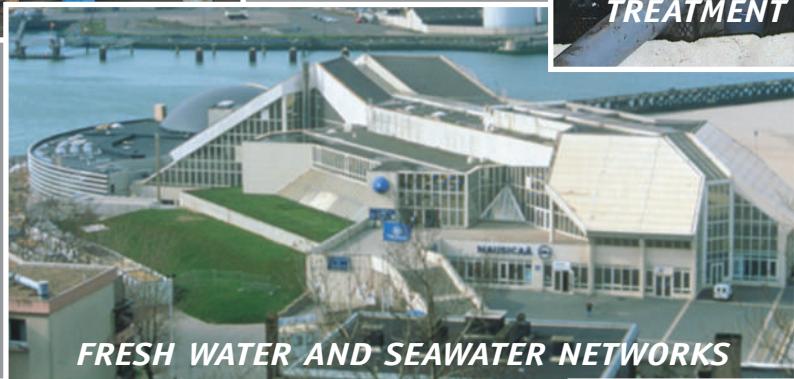
The high performances of U-PVC K62 pressure fittings enable many applications in many fields.



• Due to their high strength, U-PVC K62 fittings are suitable for industrial water networks.

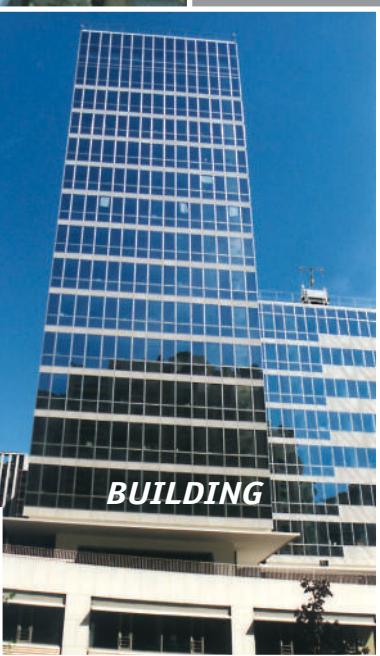


• Due to their high chemical inertia, U-PVC K62 fittings are used for seawater networks.



↑
• Due to their inherent resistance to corrosion and chlorination, U-PVC K62 fittings are suitable for swimming pool water networks.

• Due to their superior quality, U-PVC K62 fittings are certified by several major shipbuilding control institutes (Veritas Marine, Germanischer Lloyd, RINA, etc...).



↑
• U-PVC K62 fittings comply with the requirements of the French NF-P quality label. They have been certified in France and other countries for drinking water networks.

HIGH K-value

The resin used by GIRPI has a high K-value so that it is compatible with pipes meeting the highest quality standards. This high index is particularly useful to optimise the network's resistance to brutal pressure changes.

RELIABILITY

Fittings are submitted to both static and dynamic pressure tests (i.e. 20/60 bar alternating pressure tests), with 3600 cycles/hour for diameters 12 to 90 and 1500 cycles/hour for diameter 110 to 160 according to NF T 54-094 and XP T 54-034 standards.

SAFETY

U-PVC K62 pressure fittings are tested at 4.2 times the nominal pressure (PN 25 tested at 105 bars/1 hour ; PN 16 tested at 67 bars/1 hour).

They are designed for a minimum life of 50 years with a safety factor of 2.5 after 50 years.

The choice of high PN values helps to resist the many loads applied in a network.

CERTIFICATIONS

U-PVC K62 pressure fittings benefit from a number of approvals and quality labels in Europe.

- Certificate of Bureau Veritas Marine ;
- Certified NF-P (dimensional and mechanical characteristic) quality label ;
- Certified IIP-UNI (Italy), KIWA (Holland) quality labels ;
- Complying with quality requirements in ISO and DIN standards, etc... ;
- Certified for potable water networks by the French Ministry of Health ;
- ISO 9001 certified factory.

PRESSURE :

Unless otherwise mentionned, all U-PVC fittings are classified PN25 from 12 to 20, PN 16 from 25 to 225, PN 10 from 250 to 315 (using the NF T 54-029 test method at a temperature of 20°C).

U-PVC K62 range

Designation	Reference	Diameter (mm)																
		12	16	20	25	32	40	50	63	75	90	110	125	140	160	200	225	250
ELBOWS 90°	B4M																	
ELBOWS 45°	B8M																	
THREADED ELBOWS 90° with metal reinforcing ring	B4G		3/8"	1/2"	3/4"	1"	"1/4	"1/2	2"									
BRASS THREADED ELBOW 90°	B4GL		1/2"	1/2"	3/4"													
EQUAL TEE 90°	BTE																	
THREADED TEE 90° EQUAL with metal reinforcing ring	BTG			1/2"	3/4"	1"	"1/4	"1/2	2"									
THREADED TEE 90° REDUCED with metal reinforcing ring	BTGR					3/4"	3/4"	3/4"	3/4"									
EQUAL TEES 45°	BYT																	
CROSSES	BXT																	
90° BENDS	B4C																	
90° BENDS	4F																	
45° BENDS	8F																	
22°30 BENDS	16F																	
11°15 BENDS	32F																	
PLUGS	BBF	3/8"	1/2"	3/4"	1"	"1/4	"1/2	2"	"1/2	3"								
THREADED CAPS	BBG	3/8"	1/2"	3/4"	1"	"1/4	"1/2	2"		3"								
CAPS	BBO										F75						*	
REDUCED TEES 90°	BTR			12	12	12	16	20	20	20	25	25	32	32	40			
				16	16	16	20	25	25	25	25	32	32	40	40	50		
				20	20	25	32	32	32	32	40	40	50	50	63			
				25	32	40	50	50	50	63	75	75	90	90	110			



f : Male thread



G : Female thread

U-PVC K62 RANGE

Designation	Reference	Diameter (mm)																	
		12	16	20	25	32	40	50	63	75	90	110	125	140	160	200	225	250	315
REDUCING BUSHES LONG PATTERN	BRD			12	12	12	16	20	20	20	25	50	63	75	75				
				16	16	16	20	25	25	25	32	63	75	90	90				
				20	25	32	32	32	40	40	50	75	90	110	110				
						40	40	50	50	50	63							125	
REDUCING BUSHES SHORT PATTERN	BRS		12	16	20	25	32	40	50	63	75	90	110	125	140	160	200	200	250
REDUCING BUSHES SHORT PATTERN	BRDC							DN20	DN25	DN32	DN40		DN75					DN160	
COUPLINGS	BMA																		
ADAPTORS with metal reinforcing ring	BMM		3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"							
THREADED ADAPTORS for high torque	BMML		3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"											
ADAPTORS Female threaded	BMG				1/2"	3/4"	1"	1 1/4"	1 1/2"	2"									
3 PIECE UNIONS	B3F/P B3F/PB		1/2"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"									
REDUCING ADAPTOR NIPPLES	BED	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"										
3 PIECE UNIONS	B3P																		
3 PIECE UNIONS	B3P 1 G				1/2"	3/4"	1"	1 1/4"	1 1/2"	2"									
U-PVC TANK CONNECTORS	A9FH	3/8" 3/4"	3/4" 1"	1" 1 1/4"		1 1/2" 2"				2"		2 3/4"							
ADAPTOR NIPPLES	BEA	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"								
HEXAGON NIPPLES DOUBLE THREADED	BEB	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"											
BRASS MALE THREADED ADAPTORS	BEAL BEBL	3/8" 1/2"	1/2"	3/4" 1"	1"	1 1/4"	1 1/2"	2"											
REDUCED ADAPTORS with metal reinforcing ring	BEG	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"											
HOSE TAILS	BDC																		

F: Female

M : Male

U-PVC K62 RANGE

Designation	Reference	Diameter (mm)																
		12	16	20	25	32	40	50	63	75	90	110	125	140	160	200	225	250
HOSE TAILS	BDF	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"									
STUB FLANGES SERRATED	BCS																	
FLANGES glass fibre reinforced polyamide	BPA							DN40	DN50	DN60	DN90	DN100	DN125	DN140				
FLANGES PN 10	BPL							DN40	DN50	DN60	DN80	DN100	DN110	DN125	DN150	DN200	DN200	DN250
FLANGES glass fibre reinforced polyester	BVR		DN15	DN20	DN25	DN32	DN40	DN50	DN60	DN80	DN100	DN110	DN125	DN150	DN200			
3 PIECE UNIONS UPVC/BRASS	B3G/L		1/2"	3/4"	1"	1 1/4"	1 1/2"	2"										
3 PIECE UNIONS UPVC/BRASS	B3F/L		1/2"	3/4"	1"	1 1/4"	1 1/2"	2"										
METAL PIPE & TAP CONNECTORS	UR	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"											
METAL PIPE & TAP CONNECTORS	UT		1/2"	3/4"	1"	1 1/4"												
METAL PIPE & TAP CONNECTORS	UL		1/2"	3/4"	1"	1 1/4"	1 1/2"	2"										
METAL PIPE & TAP CONNECTORS	FL	1/2"	3/4"	1"	1 1/4"	1 1/2"												
ADAPTOR FOR ACCESS TO CHAMBERS	ETA																	

ACCESSORIES - VALVES - WELDING POLYMER

THREADED INSERT		HCK	Threaded insert M6, M8 or 7 x 150															
BRACKETS		A9C											Drilled base Ø 8,5					
DOUBLE UNION BALL VALVES		VBCB																
DOUBLE UNION BALL VALVES		VBCBF																
STANDARD BALL VALVES		VBCE																
BALL VALVES with pneumatic actuator single action		VAPBSE																
BALL VALVES with pneumatic actuator single action		VAPBDE																
BUTTERFLY VALVES		VPBL																
BALL VALVES with electric actuator 230 V 50 Hz		VAEB																
NON RETURN VALVES		BCAR																
NON RETURN VALVES		BCBS																

WELDING POLYMER Any fluid or any water containing chemicals in suspension or in solution other than chemical agents certified by standards and regulations for drinking water (or in different quantities) are considered to be chemicals. Therefore, their compatibility with U-PVC K62 pressure fittings should be checked. If there is any doubt, contact Girpi's technical service.

MATERIALS TECHNICAL SPECIFICATION

Pipes and fittings must have received the NF label.

• Quality

Pipes and fittings are made of non-plastified polyvinyl chloride U-PVC K62. Pipes must have a uniform thickness and diameter, have a smooth surface condition and must have passed pressure tests defined in the standards. They shall be made by an ISO 9001 certified company.

• Standards and approvals

U-PVC pipes and fittings shall comply with the requirements of various standards including NF T 54-002, 54-003 and 54-016.

Pipes shall comply with standards NF T 54-003, 54-016, 54-028, 54,029, 54-039 and 54-040.

• Identification

Dark grey pipes and fittings (color RAL 7011).

• Service conditions

Cold water (20°) :

- Fittings :	diameter 12 to 20	→ PN 25
	diameter 25 to 225	→ PN 16
	diameter 250 and 315	→ PN 10

ASSEMBLY OF U-PVC K62 PIPES AND FITTINGS

Refer to DTU n° 60.31 and 60.33.

Pipes and fittings are assembled exclusively by cold chemical welding :

- Cutting using a wheel tube cutter for plastic.
- Deburring, chamfering using a chamfering tool.
- It is essential that pipes and fittings should be cleaned and free from all traces of humidity. Otherwise, clean the areas to be assembled using a clean cloth or D 171P primer.
- Assembly by weld polymer applied with an appropriate brush.

EXPANSION - CONTRACTION

Expansion, contraction : "alpha" coefficient : 0,070/mm/m/°C.

Linear variations between fixed points will be absorbed by :

- Direction changes ;
- Expansion loops formed from pipes and fittings ;
- Expansion compensation accessories.

• Test

Complying with DTU n° 60.1 and the manufacturer's technical documentation.

SAFETY FOR YOUR PIPEWORKS

DRAINAGE

- **HTA®-E System**

For draining 100°C waste water from centralized kitchens



- **PVC drainage fittings**

For waste water drainage. Diameters from 32 to 315.



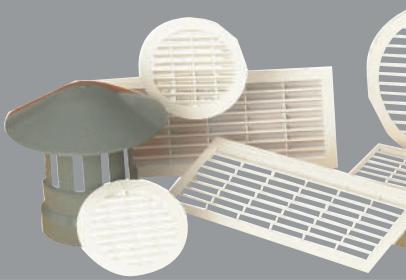
- **PVC rainwater system**

A wide range of raingutter systems, featuring a broad choice of shapes, colours and installation systems.



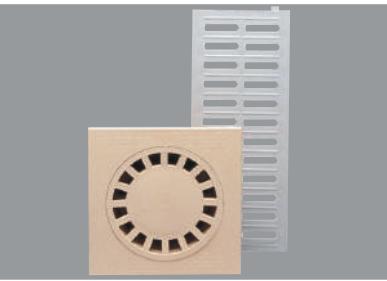
- **Ventilation**

Items designed to meet most of your requirements.



- **Floor drainage system**

For collecting rainwater.



PRESSURE

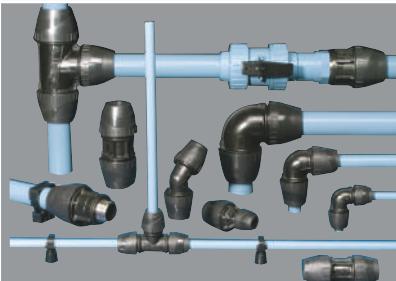
- **HTA® CPVC system**

For conveying pressurized hot fluids up to 90°C.
PN 25 / Diameters from 16 to 63.
PN 16 / Diameters from 32 to 160.



- **QUICKAIR® / GIRAIR® system**

For conveying compressed air with both cold welding and mechanical junction.
PN 12,5 / Diameters from 16 to 110.



- **KRYOCLIM® system in HPF**

Made from H.P.F. resin.
For conveying chilled fluids and air conditioning.
From -30°C to +40°C.
Diameters from 20 to 160



- **U-PVC K62 Pressure fittings**

For conveying pressurized water.
PN 25 / Diameters from 12 to 20.
PN 16 / Diameters from 25 to 225.
PN 10 / Diameters from 250 to 315.



- **Valves**

A line of ball valves, butterfly valves, non return valves and actuated ball valves.
Diameters from 16 to 200



safety for your pipeworks

Rue Robert Ancel - BP 36 - 76700 Harfleur - France
Tél. : 33 (0)2 32 79 60 00 - Fax : 33 (0)2 32 79 60 27
girpi.fr - girpi.com - e-mail : contact@girpi.fr