



GENERAL CATALOGUE

PRESS FITTINGS

► Use

Giacomini Press Fittings are used for the installation of hot and cold water distribution and heating systems. The wide range fittings and sizes supported by components that are compatible with most commonly used systems, allows engineers a wide choice of materials helping them solve any work-place problem with traditional distribution or manifold systems by offering flexible synthetic pipes in Pe-X or Pb, or semi-rigid multilayer pipes. Particular attention has been given to the design and production of fittings thus ensuring reliability of the components in order to make the work of the installer easier, in conditions of high safety. Among the innovations, you will notice the stainless steel bush with flared end to facilitate the coupling of the pipe, the bush fastener ring for the visual indication of the correct introduction into the pipe to be connected (necessary condition to grant a firm pressing), the insulator separator for multilayer pipe joints (as you may know, the aluminium film can damage the connection fittings because of electrochemical phenomenon). Fittings are supplied completely assembled, packed in protection bags and the size of the corresponding pipes is clearly stamped on the bush. In case of chased installations of fittings, avoid the contact between cement mixing and the metallic part of the components. We recommend only installing joints where access can be gained for inspection for instance by using a plastic box to be embedded, or at least insulated from the structure and free to expand, so that chemical reactions on the metallic surfaces and stresses due to the thermal expansion are avoided.

► Technical data

CW617N-EN 12165 stamped brass bodies.

High precision manufacturing on automatic machines.

Double seal o-ring in ethylene propylene in compliance with EN 681-1, suitable for drinking water distribution.

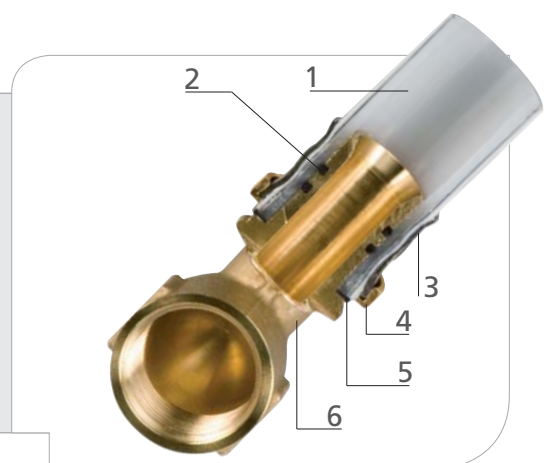
Compression bush in stainless steel AISI 304.

Bush fastener ring made of brass CW614n-EN 12164.

Maximum working pressure 1 MPa (10 bar).

Maximum working temperature 110°C.

1. Pipe
2. O-ring
3. Bush
4. Bush fastener ring
5. Insulating ring
6. Body





PRESS FITTINGS

RP102



Straight fitting, for GIACOTHERM, GIACOFLEX and multilayer pipes and polybutylene pipes.

CERTIFICATION AND SYMBOLS



PART NUMBER	SIZE	■	▣
RP102X012	14x2	10	-
RP102X003	16x2*	10	-
RP102X004	16x2,2	10	-
RP102X013	17x17	10	-
RP102X005	18x2	10	-
RP102X007	20x2*	10	-
RP102X008	20x2,5	10	-
RP102X009	26x3*	5	-
RP102X011	32x3*	5	-
RP102Y014	40x3,5	2	-
RP102Y015	50x4	2	-
RP102Y016	63x4,5	2	-

NEW

RP103



Reducing straight fitting for GIACOTHERM, GIACOFLEX and multilayer and polybutylene pipes.

CERTIFICATION AND SYMBOLS



PART NUMBER	SIZE	■	▣
RP103X010	(20x2)x(16x2)*	10	-
RP103X012	(20x2,5)x(16x2)	10	-
RP103X018	(26x3)x(20x2)*	10	-
RP103X019	(26x3)x(20x2,5)	5	-
RP103X022	(32x3)x(26x3)*	5	-
RP103Y064	40x3,5x26x3,0	2	-
RP103Y065	40x3,5x32x3,0	2	-
RP103Y075	50x4x32x3,0	2	-
RP103Y076	50x4x40x3,5	2	-
RP103Y086	63x4,5x40x3,5	2	-
RP103Y087	63x4,5x50x4	2	-

NEW

RP107



Male straight fitting, for GIACOTHERM, GIACOFLEX and multilayer pipes, and polybutylene pipes.

CERTIFICATION AND SYMBOLS



PART NUMBER	SIZE	■	■
RP107X021	3/8" x(14x2)	10	-
RP107X023	3/8" x(16x2)	10	-
RP107X031	1/2" x(14x2)	10	-
RP107X033	1/2" x(16x2)*	10	-
RP107X034	1/2" x(16x2,2)	10	-
RP107X035	1/2" x(18x2)	10	-
RP107X037	1/2" x(20x2)*	10	-
RP107X038	1/2" x(20x2,5)	10	-
RP107X043	3/4" x(16x2)*	5	-
RP107X047	3/4" x(20x2)*	5	-
RP107X049	3/4" x(26x3)*	5	-
RP107X059	1" x(32x3)*	5	-
RP107Y066	1 1/4 x(40x3,5)	2	-
RP107Y077	1 1/2 x(50x4)	2	-
RP107Y088	2 x(63x4,5)	2	-

NEW



PRESS FITTINGS

RP109



Female straight fitting, female thread, for GIACOTHERM, GIACOFLEX and multilayer pipes.

CERTIFICATION AND SYMBOLS



PART NUMBER	SIZE	■	☐
RP109X031	1/2"x(14x2)	10	-
RP109X033	1/2"x(16x2)*	10	-
RP109X034	1/2"x(16x2,2)	10	-
RP109X035	1/2"x(18x2)	10	-
RP109X037	1/2"x(20x2)*	10	-
RP109X038	1/2"x(20x2,5)	10	-
RP109X043	3/4"x(16x2)*	5	-
RP109X047	3/4"x(20x2)*	5	-
RP109X049	3/4"x(26x3)*	5	-
RP109X059	1"x(32x3)*	5	-
RP109Y060	1 x(40X3,5)	2	-
RP109Y066	1 1/4 x(40x3,5)	2	-
RP109Y075	1 1/4 x(50x4)	2	-
RP109Y077	1 1/2 x(50x4)	2	-
RP109Y088	2 x(63x4,5)	2	-

NEW

RP122



90° elbow, female thread, for GIACOTHERM, GIACOFLEX and multilayer pipes.

CERTIFICATION AND SYMBOLS



PART NUMBER	SIZE	■	☐
RP122X012	14x2	10	-
RP122X003	16x2*	10	-
RP122X004	16x2,2	10	-
RP122X005	18x2	10	-
RP122X007	20x2*	10	-
RP122X008	20x2,5	10	-
RP122X009	26x3*	5	-
RP122X011	32x2*	5	-
RP122Y013	40x3,5	2	-
RP122Y014	50x4	2	-
RP122Y015	63x4,5	2	-

NEW

RP127



90° elbow male thread for GIACOTHERM, GIACOFLEX and multilayer pipes.

CERTIFICATION AND SYMBOLS



PART NUMBER	SIZE	□	⊞
RP127X031	1/2"x(14x2)	10	-
RP127X033	1/2"x(16x2)*	10	-
RP127X034	1/2"x(16x2,2)	10	-
RP127X035	1/2"x(18x2)	10	-
RP127X037	1/2"x(20x2)*	10	-
RP127X038	1/2"x(20x2,5)	10	-
RP127X043	3/4"x(16x2)*	10	-
RP127X047	3/4"x(20x2)*	10	-
RP127X049	3/4"x(26x3)*	10	-
RP127Y066	1 1/4 x(40X3,5)	2	-
RP127Y077	1 1/2 x(50X4)	2	-
RP127Y088	2 x(63x4,5)	2	-

NEW

RP129



90° elbow, female thread, for GIACOTHERM, GIACOFLEX and multilayer pipes.

CERTIFICATION AND SYMBOLS



PART NUMBER	SIZE	□	⊞
RP129X031	1/2"x(14x2)	10	-
RP129X033	1/2"x(16x2)*	10	-
RP129X034	1/2"x(16x2,2)	10	-
RP129X035	1/2"x(18x2)	10	-
RP129X037	1/2"x(20x2)*	10	-
RP129X038	1/2"x(20x2,5)	10	-
RP129X043	3/4"x(16x2)*	10	-
RP129X047	3/4"x(20x2)*	10	-
RP129X049	3/4"x(26x3)*	5	-
RP129X059	1"x(32x3)*	5	-
RP129Y066	1 1/4 x(40x3,5)	2	-
RP129Y077	1 1/2 x(50x4)	2	-
RP129Y088	2 x(63x4,5)	2	-

NEW



PRESS FITTINGS

RP139



90° elbow with wall bracket, female iron thread and press fitting connection for GIACOTHERM, GIACOFLEX multilayer and polybutylene pipes.

CERTIFICATION AND SYMBOLS



PART NUMBER	SIZE	■	■
RP139X031	1/2"x(14x2)	10	-
RP139X033	1/2"x(16x2)*	10	-
RP139X035	1/2"x(18x2)	5	-
RP139X037	1/2"x(20x2)*	5	-
RP139X038	1/2"x(20x2,5)	5	-
RP139X049	3/4"x(26x3)*	5	-

RP144



45° bend for GIACOTHERM, GIACOFLEX multilayer and polybutylene pipes.

CERTIFICATION AND SYMBOLS



PART NUMBER	SIZE	■	■
RP144X009	26x3*	5	-
RP144X011	32x3*	5	-

RP150



Tee fitting for GIACOTHERM, GIACOFLEX and multilayer pipes.

CERTIFICATION AND SYMBOLS



INFO



PART NUMBER	SIZE	■	■
RP150X002	14x2	10	-
RP150X003	16x2*	10	-
RP150X004	16x2,2	10	-
RP150X005	18x2	10	-
RP150X007	20x2*	10	-
RP150X008	20x2,5	10	-
RP150X009	26x3*	5	-
RP150X011	32x3*	5	-
RP150Y012	40x3,5	2	-
RP150Y013	50x4	2	-
RP150Y014	63x4,5	2	-

NEW

RP128



90° elbow, with copper pipe ø 16 chrome plated, for GIACOTHERM, GIACOFLEX multilayer pipes.

CERTIFICATION AND SYMBOLS



INFO

Lenght 30 cm.

PART NUMBER	SIZE	■	■
RP128X034	(16x2)x16*	1	50



PRESS FITTINGS

RP158



Tee fitting, with copper pipe Ø 16, 45° inclined, chrome plated, for GIACOTHERM, GIACOFLEX multilayer pipes.

CERTIFICATION AND SYMBOLS



INFO

Lenght 30 cm.

PART NUMBER	SIZE	□	⊞
RP158X034	(16x2)x16x(16x2)*	1	50

RP151



Reducing tee for GIACOTHERM, GIACOFLEX multilayer and polybutylene pipes.

CERTIFICATION AND SYMBOLS



INFO



PART NUMBER	SIZE	■	■
RP151X041	(16x2)x(14x2)x(14x2)	10	-
RP151X042	(16x2)x(14x2)x(16x2)	10	-
RP151X045	(16x2)x(20x2)x(16x2)*	10	-
RP151X046	(16x2)x(20x2,5)x(16x2)	10	-
RP151X063	(20x2)x(16x2)x(16x2)*	10	-
RP151X064	(20x2)x(16x2)x(20x2)*	10	-
RP151X065	(20x2)x(20x2)x(16x2)*	10	-
RP151X067	(20x2)x(26x3)x(20x2)*	5	-
RP151X073	(20x2,5)x(16x2)x(16x2)	10	-
RP151X074	(20x2,5)x(16x2)x(20x2,5)	10	-
RP151X075	(20x2,5)x(20x2,5)x(16x2)	10	-
RP151X077	(20x2,5)x(26x3)x(20x2,5)	5	-
RP151X084	(26x3)x(20x2)x(20x2)*	5	-
RP151X085	(26x3)x(16x2)x(26x3)*	5	-
RP151X086	(26x3)x(20x2)x(26x3)*	5	-
RP151X087	(26x3)x(20x2,5)x(20x2,5)	5	-
RP151X088	(26x3)x(20x2,5)x(26x3)	5	-
RP151X089	(26x3)x(26x3)x(20x2)*	5	-
RP151X092	(32x3)x(26x3)x(26x3)*	5	-
RP151X093	(32x3)x(26x3)x(32x3)*	5	-
RP151Y146	(40x3,5)(26x3)(40x3,5)	2	-
RP151Y147	(40x3,5)(32x3)(40x3,5)	2	-
RP151Y148	(40x3,5)(32x3)(32x3)	2	-
RP151Y149	(40x3,5)(40x3,5)(32x3)	2	-
RP151Y157	(50x4)(26x3)(50x4)	2	-
RP151Y158	(50x4)(32x3)(50x4)	2	-
RP151Y159	(50x4)(40x3,5)(50x4)	2	-
RP151Y167	(63x4,5)(32x3)(63x4,5)	2	-
RP151Y168	(63x4,5)(40x3,5)(63x4,5)	2	-
RP151Y169	(63x4,5)(50x4)(63x4,5)	2	-

NEW



PRESS FITTINGS

RP153



Tee fitting, for GIACOTHERM, GIACOFLEX and multilayer pipes, male thread.

CERTIFICATION AND SYMBOLS



INFO



PART NUMBER	SIZE	■	☐
RP153X033	(16x2)x1/2"x(16x2)*	10	-
RP153X034	(16x2,2)x1/2"x(16x2,2)	10	-
RP153X035	(18x2)x1/2"x(18x2)	10	-
RP153X037	(20x2)x1/2"x(20x2)*	10	-
RP153Y064	(40x3,5)(11/4M)(40x3,5)	2	-
RP153Y075	(50x4)(11/2M)(50x4)	2	-
RP153Y088	(63x4,5)(2M)(63x4,5)	2	-

NEW

RP154



Tee fitting, for GIACOTHERM, GIACOFLEX and multilayer pipes.

CERTIFICATION AND SYMBOLS



INFO



PART NUMBER	SIZE	■	☐
RP154X033	(16x2)x1/2"x(16x2)*	10	-
RP154X034	(16x2,2)x1/2"x(16x2,2)	10	-
RP154X035	(18x2)x1/2"x(18x2)	10	-
RP154X037	(20x2)x1/2"x(20x2)*	10	-
RP154X038	(20x2,5)x1/2"x(20x2,5)	10	-
RP154X049	(26x3)x3/4"x(26x3)*	5	-
RP154X059	(32x3)x1"x(32x3)*	5	-
RP154Y064	(40x3,5)(11/4F)(40x3,5)	2	-
RP154Y075	(50x4)(11/2F)(50x4)	2	-
RP154Y088	(63x4,5)(2F)(63x4,5)	2	-

NEW

RP165



End cap, for GIACOTHERM, GIACOFLEX multilayer and polybutylene pipes.

PART NUMBER	SIZE	■	■
RP165X005	20x2	10	-

RP179E



Straight adaptor, with nut for EUROCONE and press fitting connection, for GIACOTHERM, GIACOFLEX multilayer and polybutylene pipes.

CERTIFICATION AND SYMBOLS



PART NUMBER	SIZE	■	■
RP179X103	3/4"Ex(16x2)*	10	-
RP179X106	3/4"Ex(20x2)*	10	-
RP179X107	3/4"Ex(20x2,5)	10	-

RP179SP



Straight adaptor, hexagonal nut and fl at washer, press fitting connection for GIACOTHERM, GIACOFLEX multilayer and polybutylene pipes.

CERTIFICATION AND SYMBOLS



PART NUMBER	SIZE	■	■
RP179Y041	3/8"x(14X2)	10	-
RP179Y043	3/8"x(16x2)*	10	-
RP179Y050	1/2"x(14X2)	10	-
RP179Y051	1/2"x(12x1,1)	0	-
RP179Y052	1/2"x(16x1,5)	10	-
RP179Y053	1/2"x(16X2)*	10	-
RP179Y066	3/4"x(20x2)*	10	-
RP179Y069	3/4"x(26x3)*	10	-
RP179Y056	1/2" x20x2	10	360
RP179Y063	3/4" x16x2	10	200



PRESS FITTINGS

RP179TR



Straight adaptor, nickel plated with nut for adaptor, press fitting connection for GIACOTHERM, GIACOFLEX multilayer and polybutylene pipes.

CERTIFICATION AND SYMBOLS



PART NUMBER	SIZE	■	■
RP179X020	16x(14x2)	10	-
RP179X021	16x(12x1,1)	10	-
RP179X022	16x(16x1,5)	10	-
RP179X023	16x(16x2)*	10	-
RP179X032	18x(16x1,5)	10	-
RP179X035	18x(18x2)	10	-
RP179X037	18x(20x2,5)	10	-

RP18



Straight adaptor, nickel plated with nut for adaptor, press fitting connection for GIACOTHERM, GIACOFLEX multilayer and polybutylene pipes.

CERTIFICATION AND SYMBOLS



PART NUMBER	SIZE	■	■
RP18X033	1/2"x(16x2)*	10	-
RP18X037	1/2"x(20x2)*	10	-
RP18X038	1/2"x(20x2,5)	10	-
RP18X049	3/4"x(26x3)*	5	-

RP19



90° elbow adaptor in 3 pieces, female iron thread, press fitting connection for GIACOTHERM, GIACOFLEX multilayer and polybutylene pipes.

CERTIFICATION AND SYMBOLS



PART NUMBER	SIZE	■	■
RP19X033	1/2"x(16x2)*	10	-
RP19X037	1/2"x(20x2)*	10	-
RP19X038	1/2"x(20x2,5)	10	-
RP19X049	3/4"x(26x3)*	5	-

RP20



Straight fitting, in 3 pieces, female iron thread, press fitting connection for GIACOTHERM, GIACOFLEX multilayer and polybutylene pipes.

CERTIFICATION AND SYMBOLS



PART NUMBER	SIZE	■	■
RP20X033	16x2*	10	-
RP20X077	20x2*	10	-
RP20X099	26x3*	5	-

RP173



Stop valve with screw-down shut off and RP connections.

INFO

Optionals: H174AX001 - H174BX001 - H174CX001

PART NUMBER	SIZE	■	■
RP173Y033	16x6/2	1	50
RP173Y037	20x20/2	1	50

RP200



Kit for press fittings with:
- electric press machine
- three tongs
- metallic cabinet.

PART NUMBER	SIZE	■	■
RP200Y002	16-20-26 mm	1	25

RP200-1



Kit for press fittings with:
- electric press machine
- three tongs
- metallic cabinet
- battery supply.

PART NUMBER	SIZE	■	■
RP200Y022	16-20-26mm	1	-
RP201Y000	12V battery supply for rp200y002	1	-
RP201Y022	230V local power source for RP200Y022	1	-



PRESS FITTINGS

RP202



Tongs for RP200 press machine.

TH PROFILE

PART NUMBER	SIZE	■	■
RP202Y014	14	1	-
RP202Y016	16	1	-
RP202Y017	17	1	-
RP202Y018	18	1	-
RP202Y020	20	1	-
RP202Y026	26	1	-
RP202Y032	32	1	-
RP202Y040	40 U	1	-

RP204



Roller pipe cutter (up to 40mm)

PART NUMBER	SIZE	■	■
RP204Y001	0-40 mm	1	-

RP205



Deburring tool for GIACOTHERM, GIACOFLEX and multilayer pipes.

PART NUMBER	SIZE	■	■
RP205Y001	0-20	1	-

RP209



Calibrator/deburring for multilayer pipes.

PART NUMBER	SIZE	■	■
RP209Y001	(14x2)-(20x3)	1	5
RP209Y002	(26x3)-(32x3)	1	5

RP209R



Kit with cutters, deburring machine and gauge for multilayer pipes. It includes: handle box and TH cutters of 16x2, 20x2 and 26x3mm.



HANDLE



CUTTERS

PART NUMBER	SIZE	■	■
RP209Y007	16x2-20x2-26x3	1	-
RP209Y008	HANDLE	1	-
RP209Y009	BOX	1	-
RP209Y014	14x2	1	-
RP209Y016	16x2	1	-
RP209Y018	18x2	1	-
RP209Y020	20x2	1	-
RP209Y026	26x2	1	-

RP208



Steel pipe bending spring

PART NUMBER	SIZE	■	■
RP208Y014	14x2	1	-
RP208Y016	16x2	1	50
RP208Y018	18x2	1	50
RP208Y020	20x2	1	-



PRESS FITTINGS

► Installation



The pipe must be cut straight across its axis using R990 shears (we suggest slightly rotating the shears during this operation, in order to make the cut easier) or, in case of multilayer pipes, by using RP204 roller pipe cutter, thus limiting the pipe ovality.



Prevent the damage of the hydraulic sealing elements during installation, to guarantee the efficacy of the joint:

- A. Burr the internal surface of the pipe, using the appropriate RP205 tool.
- B. Calibrate the internal surface of the pipe, using the appropriate RP209 tool (for multilayer pipes only).
- C. Lubricate the pipe.



The perfect sealing of the press fittings is possible only if the pipe and the fitting have corresponding nominal diameters and thickness. Therefore in order to avoid wrong assemblies, it is advisable to check the dimensions of the components before effecting the pressing.



Fit the pipe deep into the fitting: the correct coupling position is indicated from the visibility of the pipe through the sight holes in the bush fastener ring. Moreover the flared shape of the bush makes the introduction of the pipe easier.



Open the tongs mounted on the press machine and, before inserting the press fittings to be pressed, make sure that there are no impurities inside it. Fit the fitting into the grooves of the tongs, so as to let the templates exactly match.



Start up the press machine and wait for the complete closing of the tongs that means the blocking of the fitting. During this operation, particular attention must be given to the mechanism in motion, in order to avoid casual incidents.



When the sealing has been completed, reverse the travel direction of the press machine, and when it stops, open the tongs to remove the pressed fitting. Check that it has been correctly tightened, and in particular check the correct position of the pipe, by observing the bush fastener ring. The fittings have irreversible fastening, and in case of incorrect pressing, the pipe must be cut again and the coupling must be re-made with a new fitting.



For correct and lasting operation, it is important to periodically clean and lubricate the press machine. In particular, the tongs must always be clean and lubricated in order to avoid anomalous stresses during the pressing operation, which could shorten the life of the mechanism.



PRESS FITTINGS

▸ Other information

1. The pressing operation must be effected only by means of RP202 tongs (TH profile) of the size corresponding to the fitting. We recommend to refer to the updated price list catalogue, for choosing the press machine for press fitting RP200 or RP200-1, supplied in case with a set of pincers.
2. In case of chased installations, avoid the contact between cement mixing and the metallic part of the component. It is advisable to effect a joint to be inspected, for instance by using a plastic box to be embedded, or at least isolated as regards to the structure, in order to avoid chemical reactions on the metallic surfaces and the stress concentration due to the thermal expansion.

▸ Guarantee

All products and components supplied by Giacomini are subjected to various controls to guarantee the high quality, proved by the certification of the quality management system in compliance with UNI EN ISO 9001:2000 standard. All products and components supplied by Giacomini are subjected to the guarantee and the responsibility indicated in 1994/44/CE, 2001/95/CE and 85/374/CEE Directives.

The guarantee is not valid in the following cases:

- 1) If working conditions or fluids are different from those prescribed.
- 2) If the fittings are used for the distribution of fluids not compatible with materials.
- 3) If the press fittings present visually perceivable defects at the time of installation, or during the pressure test of the system.
- 4) If the installation instructions are not strictly followed and in particular, if the RP202 tongs for press machine of appropriate size are not used.
- 5) If the pipes connected to the press fittings are made of not compatible materials or dimensions.
- 6) If the press fittings are installed with other components not manufactured by Giacomini, the guarantee is limited to the fittings only and it is not extended to the system.

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