



PLUMBING

MANIFOLDS & PUSH-IN CONNECTORS
for underfloor, wall and ceiling radiant systems





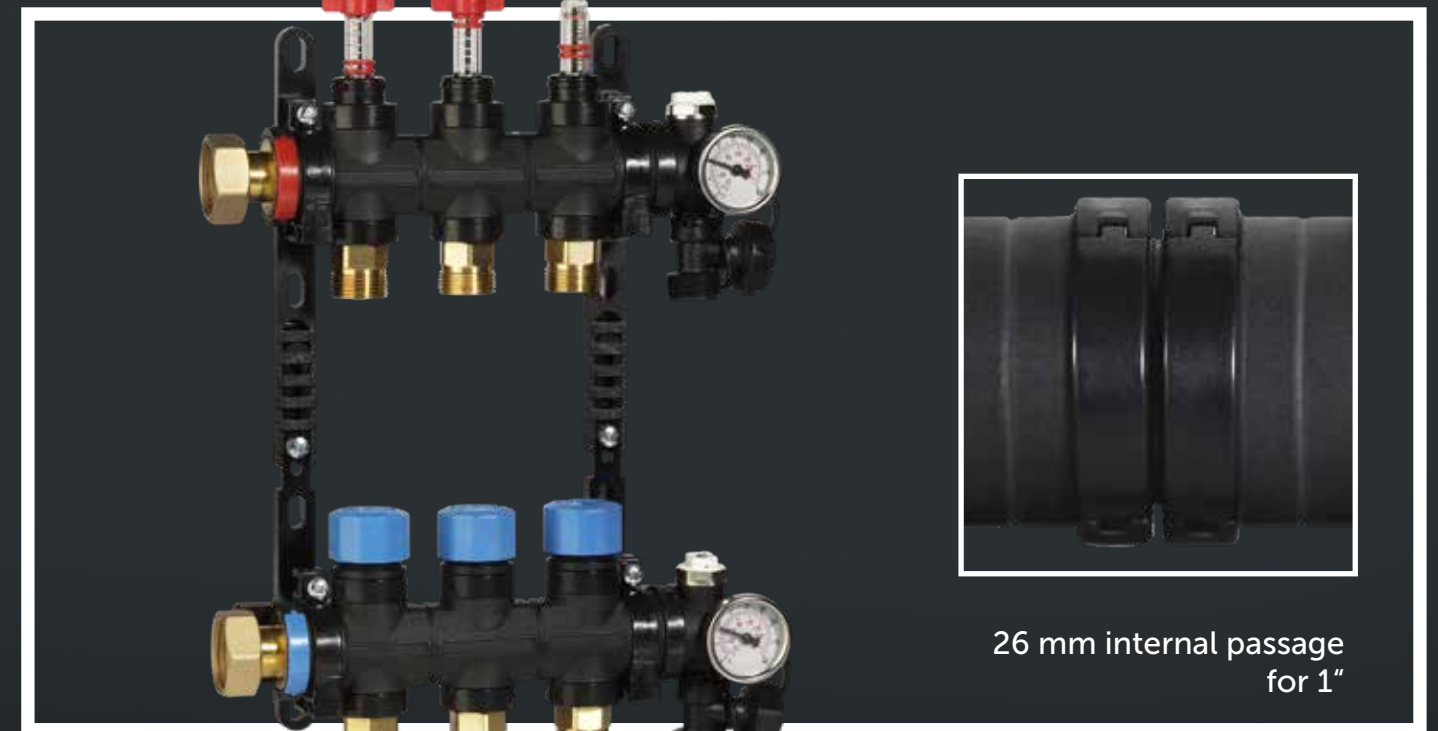
Our ideas our strength.



A fast information,
order management and
flexibility of production,
are the basis of our
service.

SUMMARY

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1" MONOESA MANIFOLD

Connection between manifold and pipe by brass/plastic Euroconus M3/4" or sliding button operated quick coupler

- Fixing in place with the greatest ease, even in tight space
- Manifold suitable to be vertically or horizontally mounted
- Depth < 80mm

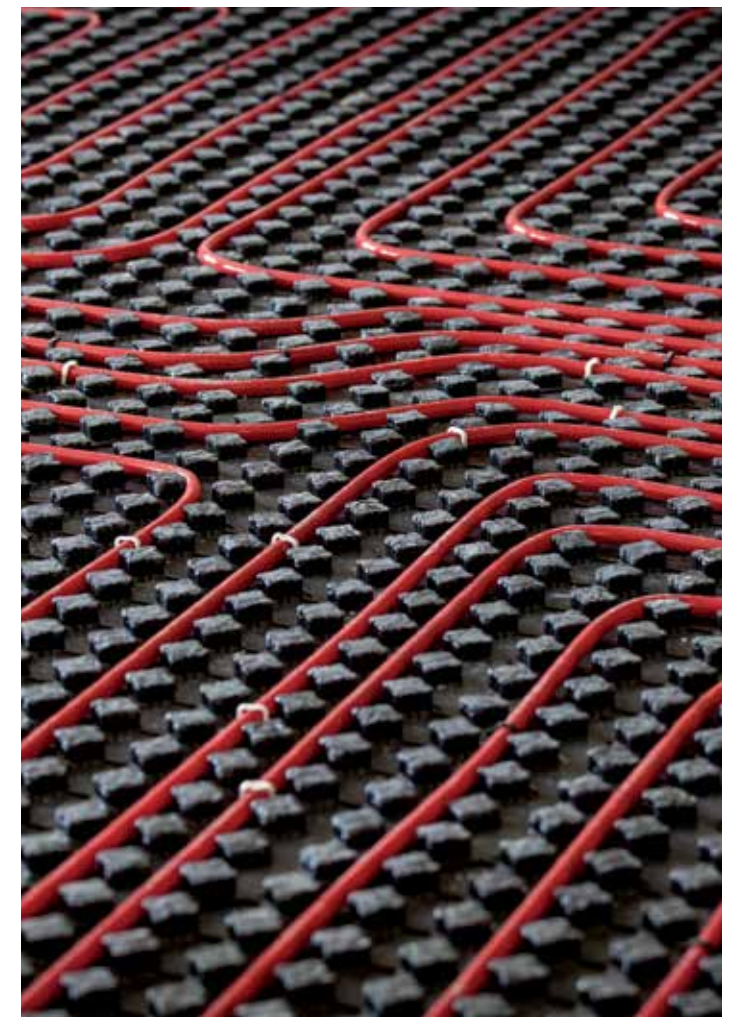


Shape and inner components:

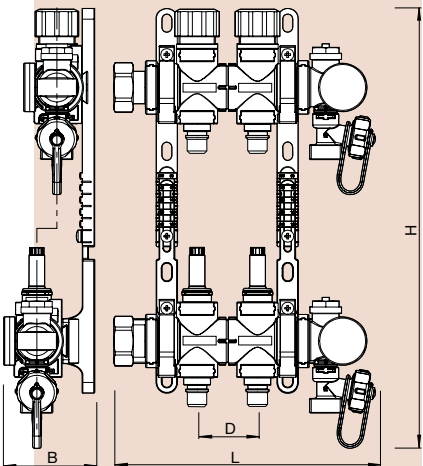
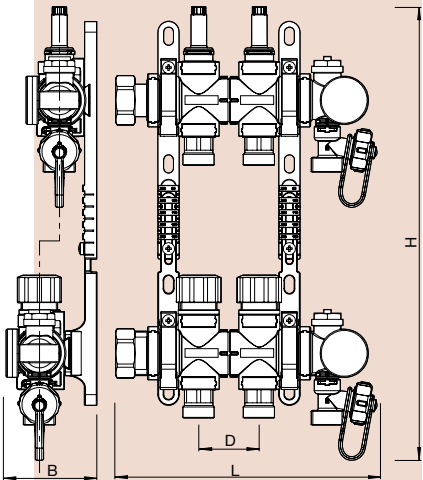
Polymer. It is an amorphous raw material with excellent resistance to temperature (max 100°C permanent), to pressure and buckling. Minimal thermal expansion.

Transparent components:

PA12



1" MONOESA MANIFOLD



Supply manifold c/w flow-meter (above) and return manifold c/w lockshield M30x1,5 (below)

P/N	DESCRIPTION	L	B	H	D
AORE02FLTVEU	2 port pre-assembled manifold	216	75	347	50
AORE03FLTVEU	3 port pre-assembled manifold	266	75	347	50
AORE04FLTVEU	4 port pre-assembled manifold	316	75	347	50
AORE05FLTVEU	5 port pre-assembled manifold	366	75	347	50
AORE06FLTVEU	6 port pre-assembled manifold	416	75	347	50
AORE07FLTVEU	7 port pre-assembled manifold	466	75	347	50
AORE08FLTVEU	8 port pre-assembled manifold	516	75	347	50
AORE09FLTVEU	9 port pre-assembled manifold	566	75	347	50
AORE10FLTVEU	10 port pre-assembled manifold	616	75	347	50
AORE11FLTVEU	11 port pre-assembled manifold	703	75	347	50-87
AORE12FLTVEU	12 port pre-assembled manifold	753	75	347	50-87

Supply manifold c/w flow-meter (below) and return manifold c/w lockshield M30x1,5 (above)

P/N	DESCRIPTION	L	B	H	D
AORE02TVFLPU1S	2 port pre-assembled manifold	216	75	347	50
AORE03TVFLPU1S	3 port pre-assembled manifold	266	75	347	50
AORE04TVFLPU1S	4 port pre-assembled manifold	316	75	347	50
AORE05TVFLPU1S	5 port pre-assembled manifold	366	75	347	50
AORE06TVFLPU1S	6 port pre-assembled manifold	416	75	347	50
AORE07TVFLPU1S	7 port pre-assembled manifold	466	75	347	50
AORE08TVFLPU1S	8 port pre-assembled manifold	516	75	347	50
AORE09TVFLPU1S	9 port pre-assembled manifold	566	75	347	50
AORE10TVFLPU1S	10 port pre-assembled manifold	616	75	347	50
AORE11TVFLPU1S	11 port pre-assembled manifold	703	75	347	50-87
AORE12TVFLPU1S	12 port pre-assembled manifold	753	75	347	50-87

- Manifold includes:
- n. 2 Temperature gauges
 - n. 2 Manual air bleed valves (automatic upon request)
 - n. 2 Fill/drain system c/w safety plug
 - n. 1 Pair of adjustable brackets
 - n. 2 F1" swivel inlets made of annealing threaded brass

Please contact our technical-sales department for all your needs.

Supply manifold c/w DIN flow-meter (above) and return manifold c/w transparent push-in connector 16x2

P/N	DESCRIPTION	L	B	H	D
AORE02FLVTVIR16	2 port pre-assembled manifold	216	75	347	50
AORE03FLVTVIR16	3 port pre-assembled manifold	266	75	347	50
AORE04FLVTVIR16	4 port pre-assembled manifold	316	75	347	50
AORE05FLVTVIR16	5 port pre-assembled manifold	366	75	347	50
AORE06FLVTVIR16	6 port pre-assembled manifold	416	75	347	50
AORE07FLVTVIR16	7 port pre-assembled manifold	466	75	347	50
AORE08FLVTVIR16	8 port pre-assembled manifold	516	75	347	50
AORE09FLVTVIR16	9 port pre-assembled manifold	566	75	347	50
AORE10FLVTVIR16	10 port pre-assembled manifold	616	75	347	50
AORE11FLVTVIR16	11 port pre-assembled manifold	703	75	347	50-87
AORE12FLVTVIR16	12 port pre-assembled manifold	753	75	347	50-87

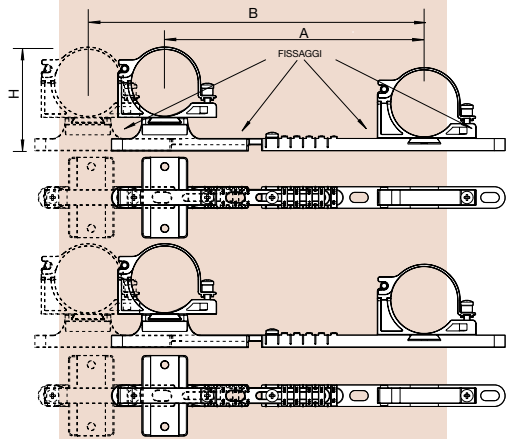
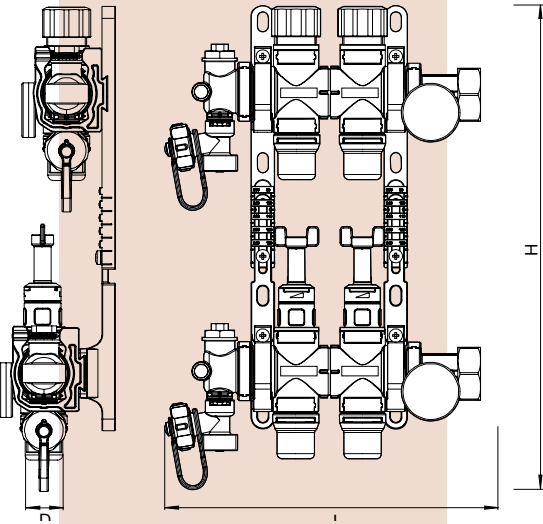
Available diameters: 14x2-15x2-17x2-20x2

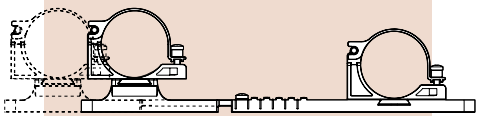
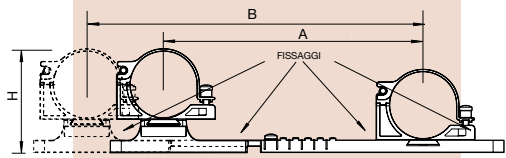
single staggered, adjustable brackets pre-assembled

P/N		A	B	H
GTE1-ST-TL1/ORO	low model	200	250	69,3
GTE1-ST-TL1OROA	Tall model	200	250	89,3

Pair of base for staggered, adjustable brackets

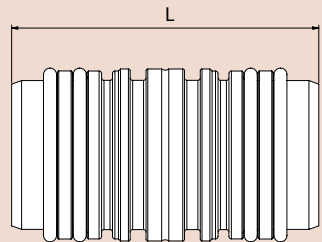
P/N		A	B	H
GTE1-ST-TL1ORO2	low model	200	250	69,3
GTE1-STTL1OROA2	Tall model	200	250	89,3



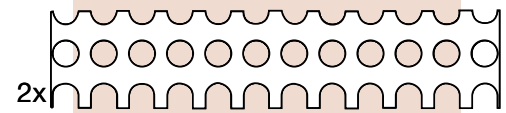


single adjustable brackets pre-assembled				
P/N		A	L	H
GTE1-ST-TL3ORO	low model	200	250	69,3
GTE1-ST-TL3OROA	Tall model	200	250	89,3

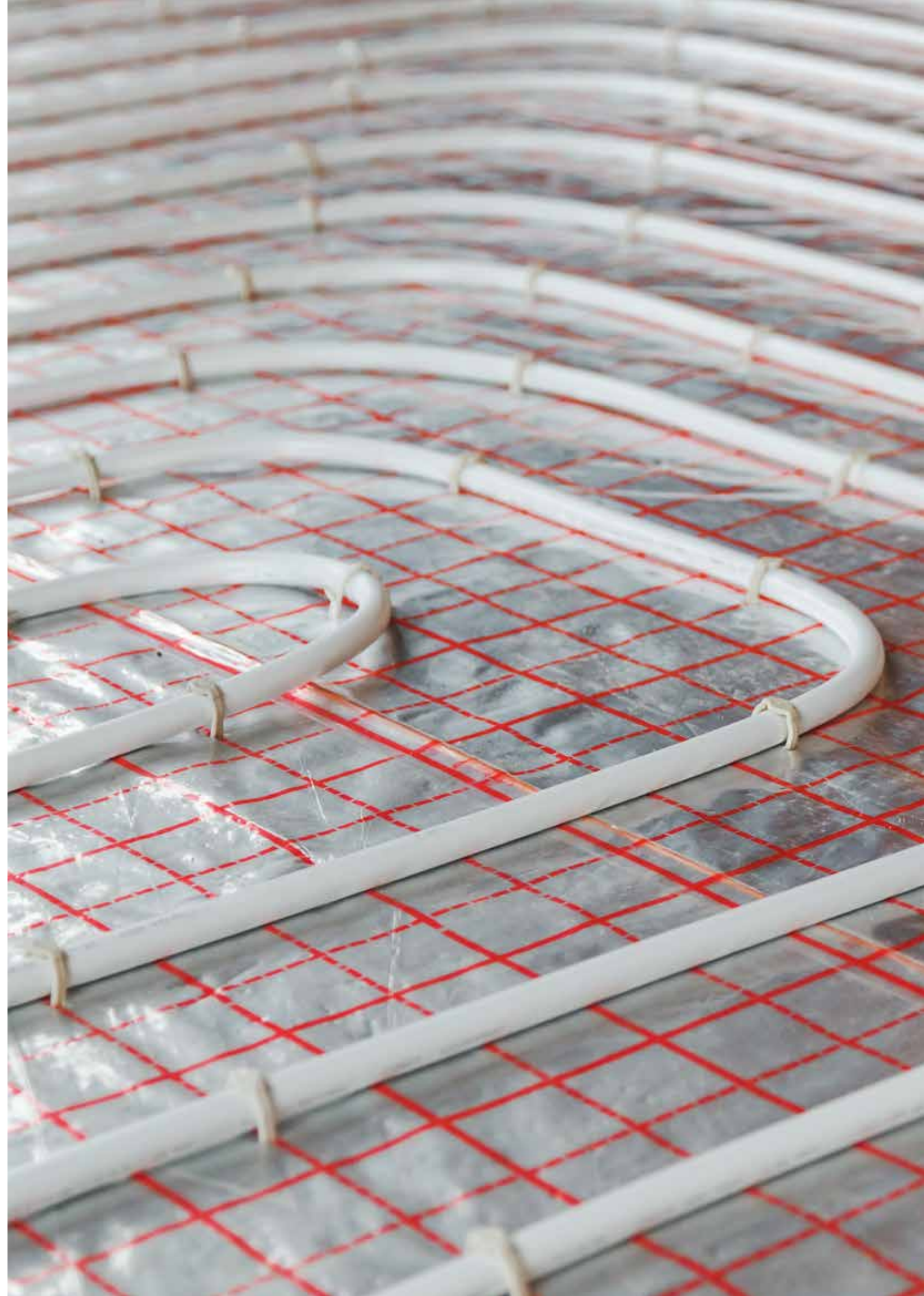
Pair of adjustable brackets pre-assembled				
P/N		A	L	H
GTE1-ST-TL3ORO2	low model	200	250	69,3
GTE1-STTL3OROA2	Tall model	200	250	89,3



Junction for monoesa manifold	
P/N	L
RORP-MM	62



Insulation for monoesa manifold from 2 to 12 ports	
P/N	
NGUS0142	



Please contact our technical-sales department for all your needs.

NEW 2019



TECHNICAL DATASHEET

PERFORMANCES	
Fluids accepted	water, glycol solutions
% glycol max	50%
Working temperature	5÷55 °C
Max temperature	90 °C at 3 bar
Working pressure	0÷6 bar
Max pressure	10 bar
Burst pressure	> 22 bar at room temperature > 15 bar at 50 °C

SUPPLY PORT C/W FLOWMETER MODEL ITRGMD05FLORP	
Flow-rate range	0÷5 l/min
Deviation percentage	+ 15%
Max torque to adjust the flow-rate	1 Nm please use the proper adjusting key
KV flow coefficient when fully open	0,98
KV flow coefficient at 5 l/min	0,29
KV flow coefficient at 4 l/min	0,24
KV flow coefficient at 3 l/min	0,18
KV flow coefficient at 2 l/min	0,12
KV flow coefficient at 1 l/min	0,06

RETURN PORT FOR THERMO ACTUATOR MODEL RTEV-ORP	
Kv flow coefficient	1,56
Stroke of inox pin	3.5 mm

MATERIALS		
PA12 / PA12 GF30%	PPS	Peroxidic EPDM
PA6,6 / PA6.6 GF30%	PP	AISI
POM	GRIVORY	Brass

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33 mm internal passage
for 1" e 1 1/4"

1" AND 1 1/4" MODULAR MANIFOLD

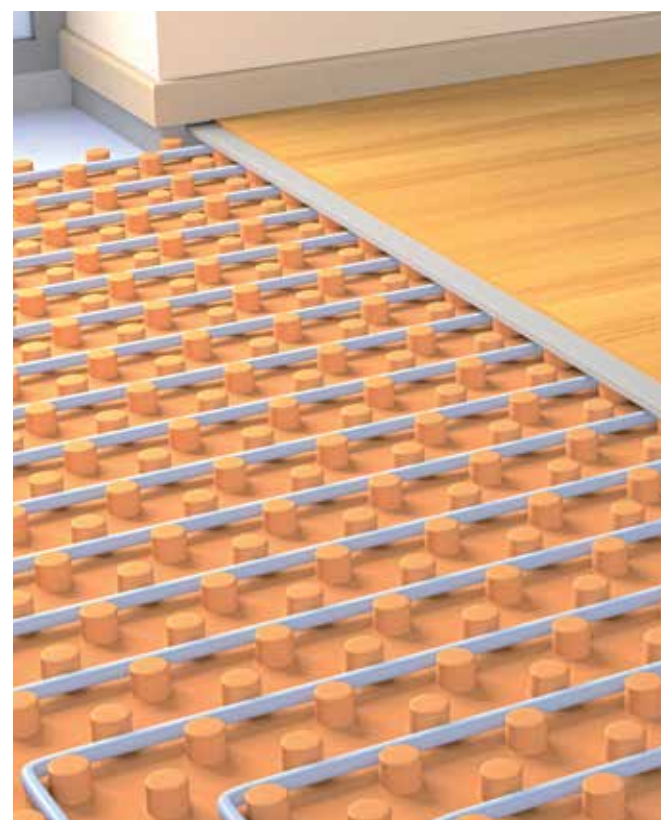
Connection between manifold and pipe by brass/plastic Euroconus M3/4" or sliding button operated quick coupler

Dual o-ring

Fixing in place with the greatest ease, even in tight space

Manifold suitable to be vertically or horizontally mounted

Depth < 80 mm



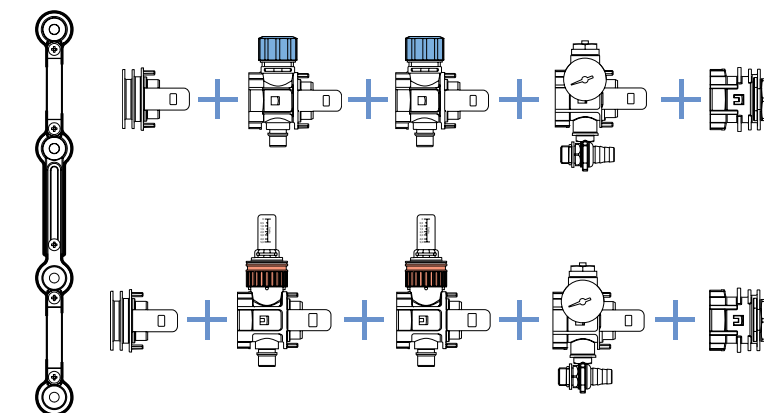
Shape and inner components:

Polymer. It is an amorphous raw material with excellent resistance to temperature (max 100°C permanent), to pressure and buckling. Minimal thermal expansion.

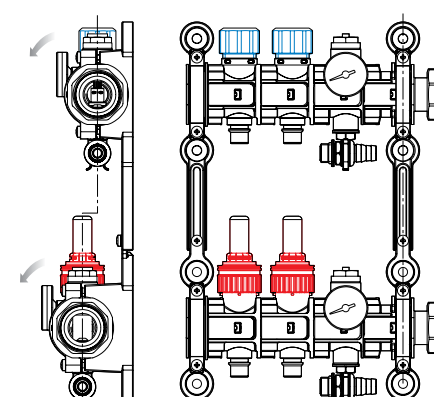
Transparent components:

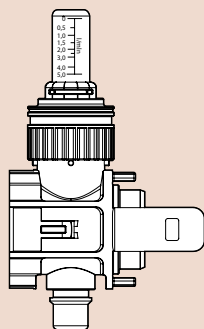
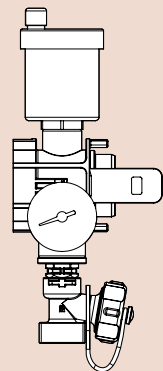
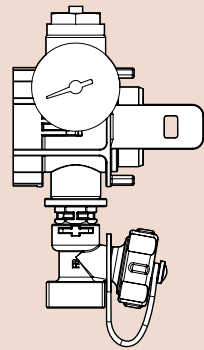
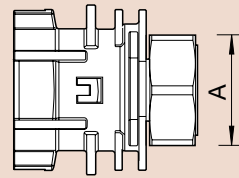
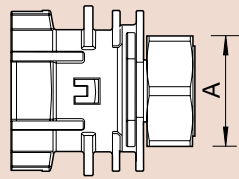
PA12

Modular manifold to assemble with Just a click



The manifold can be tailored to user demand with modular ports to assemble with just a click demand.





1" AND 1"1/4 MODULAR MANIFOLD

1"1/4 Inlet port		
P/N	TIGHTNESS	A
RT4-M-F11/4	c/w gasket	1"1/4
RT4-M-F11/4-OR	c/w o-ring	1"1/4

1" Inlet port		
P/N	TIGHTNESS	A
RT4-M-F1	c/w gasket	1"
RT4-M-F1-OR	c/w o-ring	1"

Accessories port	
P/N	
RT3-M-F11/4	
Manual air bleed valve, temperature gauge and fill/drain system	

Accessories port	
P/N	
RT3-M-F11/4-A	
Automatic air bleed valve, temperature gauge and fill/drain system	

Supply manifold port c/w flow-meter	
P/N	FLOW-RATE RANGE
RTRGMD-M	0 - 5 l/min

Please contact our technical-sales department for all your needs.

Single supply port c/w flow-meter and EK adaptor M3/4"

P/N	FLOW-RATE RANGE
RTRGMD-M-C	0 - 5 l/min

Double supply port c/w flow-meter and EK adaptor M3/4"

P/N	FLOW-RATE RANGE
RTRGMDEU02/PB	0 - 5 l/min

Double supply port c/w flow-meter
and profile for sliding operated quick coupler

P/N	FLOW-RATE RANGE
RTRGMDFU02/PB	0 - 5 l/min

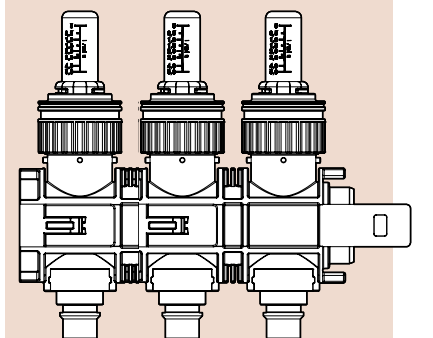
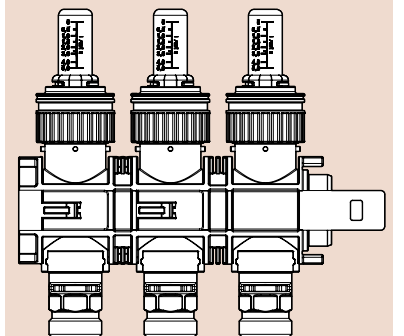
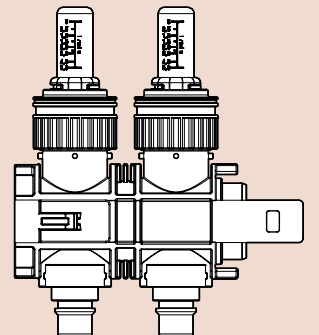
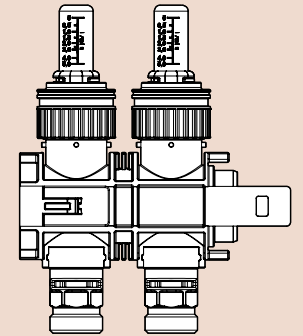
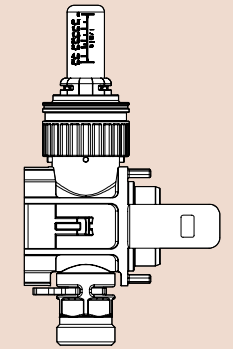
Triple supply port c/w flow-meter and EK adaptor M3/4"

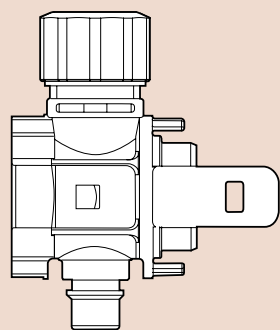
P/N	FLOW-RATE RANGE
RTRGMDFU03/PB	0 - 5 l/min

Triple supply port c/w flow-meter
and profile for sliding operated quick coupler

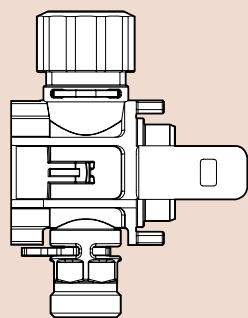
P/N	FLOW-RATE RANGE
RTRGMDFU03/PB	0 - 5 l/min

Please contact our technical-sales department for all your needs.

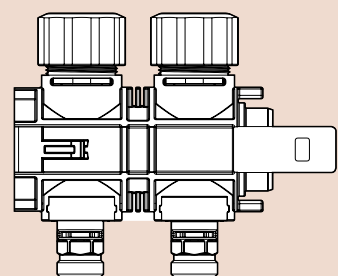




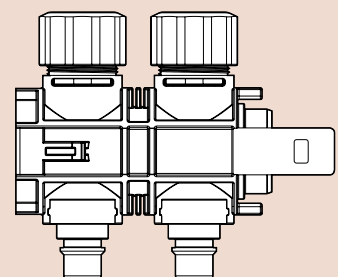
Single return port M30x1.5 c/w profile for sliding operated quick coupler	
P/N	HANDLE COLOUR
RTEV-M	blue



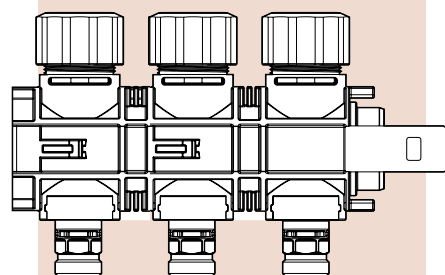
Single return port M30x1.5 c/w and EK adaptor M3/4"	
P/N	HANDLE COLOUR
RTEV-M-C	blu



Double return port M30x1.5 c/w and EK adaptor M3/4"	
P/N	HANDLE COLOUR
RTEV-EU-02/PB	blu



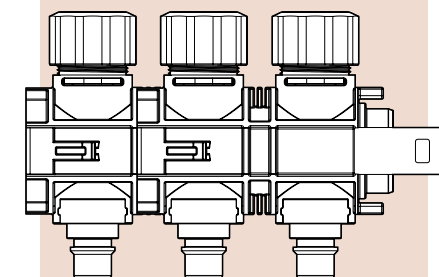
Double return port M30x1.5 c/w profile for sliding operated quick coupler	
P/N	HANDLE COLOUR
RTEV-PU-02/PB	blu



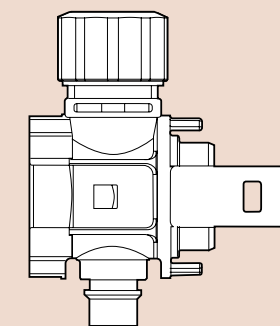
Triple return port M30x1.5 c/w and EK adaptor M3/4"	
P/N	HANDLE COLOUR
RTEV-EU-03/PB	blu

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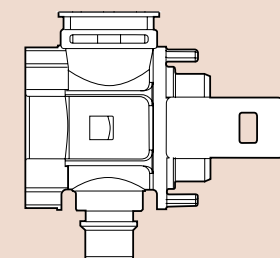
Triple return port M30x1.5 c/w profile for sliding operated quick coupler	
P/N	HANDLE COLOUR
RTEV-PU-03/PB	blue



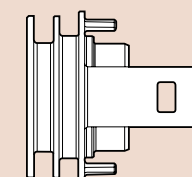
Supply manifold port c/w lockshield M30x1.5	
P/N	HANDLE COLOUR
RTEV-M-B/001	red



Supply / Return plugged port for radiator	
P/N	
RTEV-M-E	

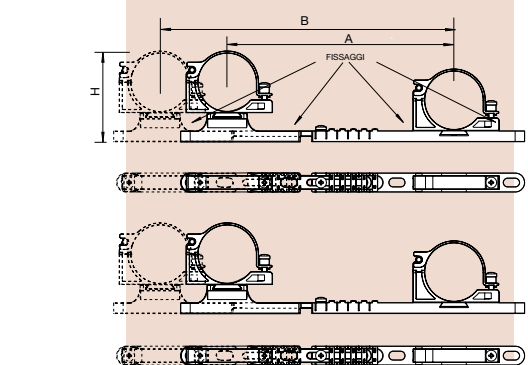
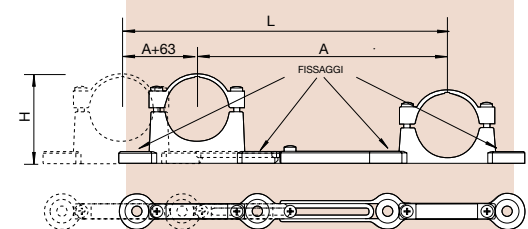
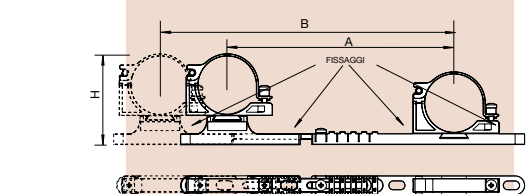
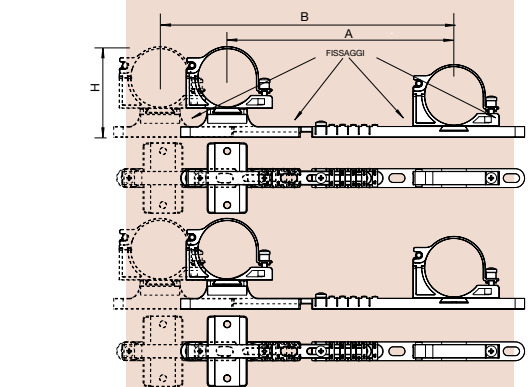
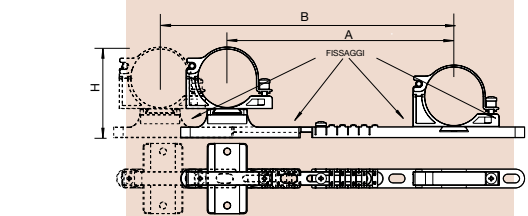


Plugged port	
P/N	
RTF1/2-M-T	
c/w F1/2" threaded plug for accessories	



Please contact our technical-sales department for all your needs.

1" AND 1"1/4 MODULAR MANIFOLD



Pair of staggered, adjustable brackets pre-assembled				
P/N		A	B	H
GTE1-ST-TL3	Low model	200	250	84
GTE1-ST-TL3A	Tall model	200	250	103,8

Pair of base for staggered, adjustable brackets				
P/N		A	B	H
GTE1-ST-TL3X2	Low model	200	250	84
GTE1-ST-TL3AX2	Tall model	200	250	103,8

Pair of not staggered, adjustable brackets pre-assembled				
P/N		A	B	H
GTE1-ST-TL1	Low model	200	250	84
GTE1-ST-TL1A	Tall model	200	250	103,8

Pair of adjustable brackets				
P/N		A	H	L
GTE1-ST-TL-X2		210	75	273
Pump distance 130-180 mm				

Pair of base for not staggered, adjustable brackets				
P/N		A	B	H
GTE1-ST-TL1X2	low model	200	250	84
GTE1-ST-TL1AX2	Tall model	200	250	103,8

Please contact our technical-sales department for all your needs.

Ball valve c/w filter				
P/N	L	H	A	TIGHTNESS
RVSF-M-MF11/4	128	109	1" 1/4	gasket
RVSF-M-MF11/4OR	128	109	1" 1/4	o-ring
Red handle on supply				
P/N	L	H	A	TIGHTNESS
RVSF-R-MF11/4	128	109	1" 1/4	gasket
RVSF-R-MF11/4OR	128	109	1" 1/4	o-ring
Blue handle on return				

Insulation for manifold up to 8 por ts	
P/N	
NGUS0131/8P	

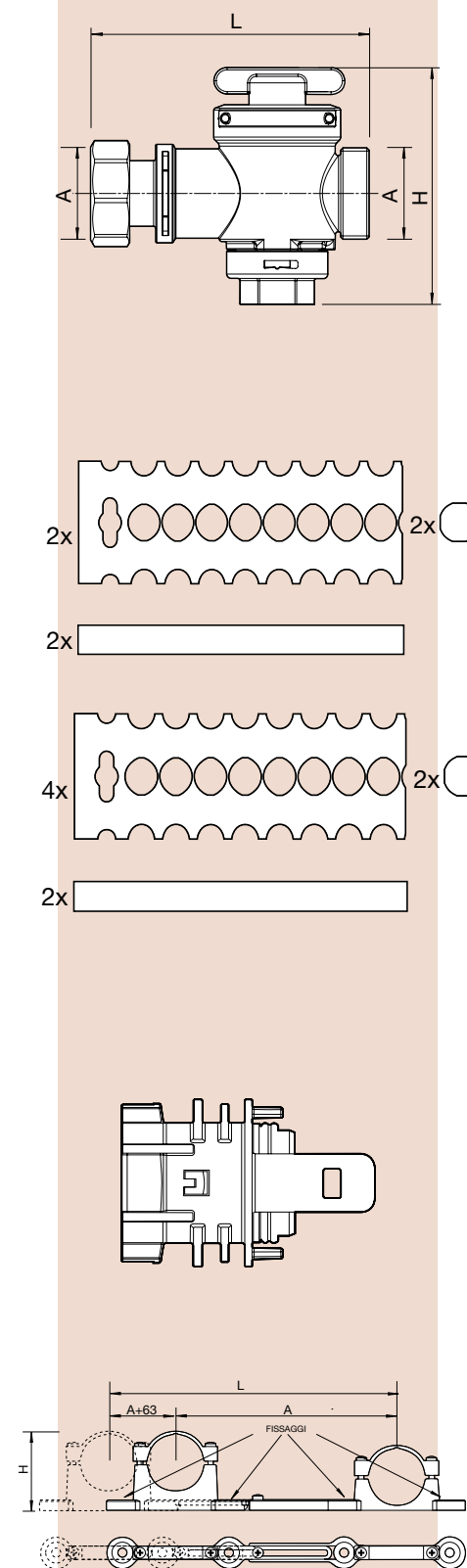
Insulation for manifold from 9 to 16 por ts	
P/N	
NGUS0131/8PX2	

ADDITIONAL MOUNTING KIT FOR MANIFOLD OVER 6 PORTS

Por t for additional bracket (optional)	
P/N	
RT-M	

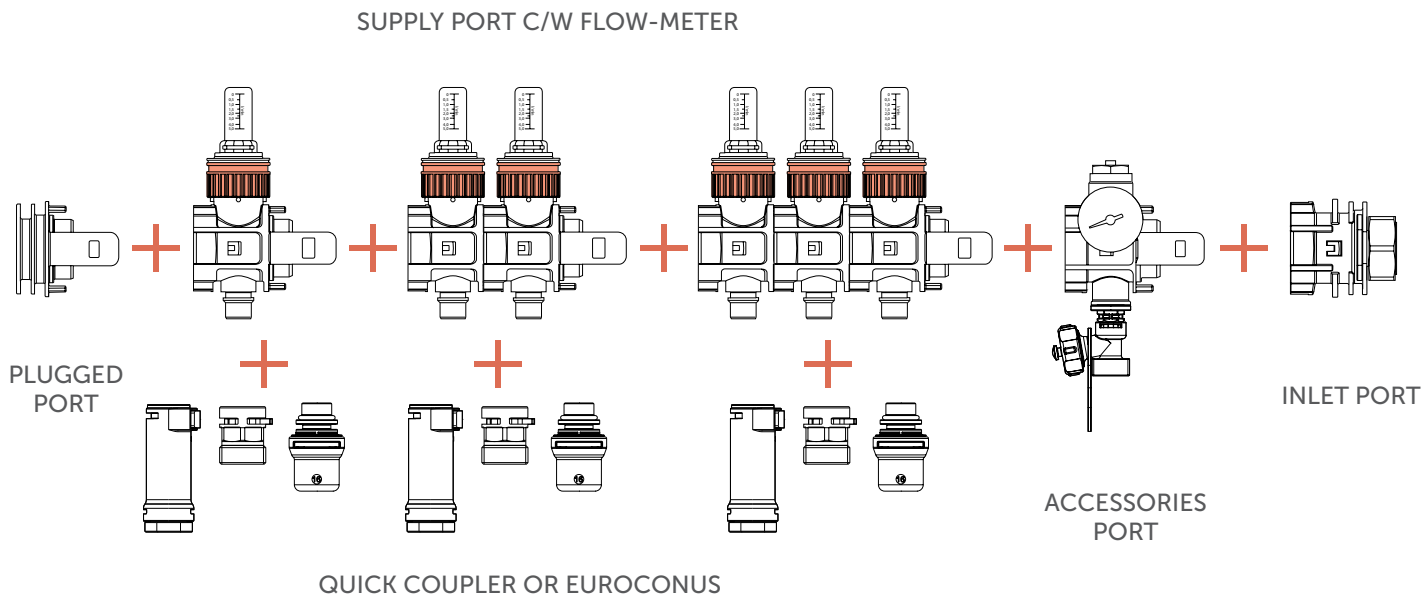
Adjustable bracket				
P/N		A	B	H
GTE1-ST-TL		210	75	273
GTE1-ST-TL-A		210	72	273
Pump distance 130-180 mm				

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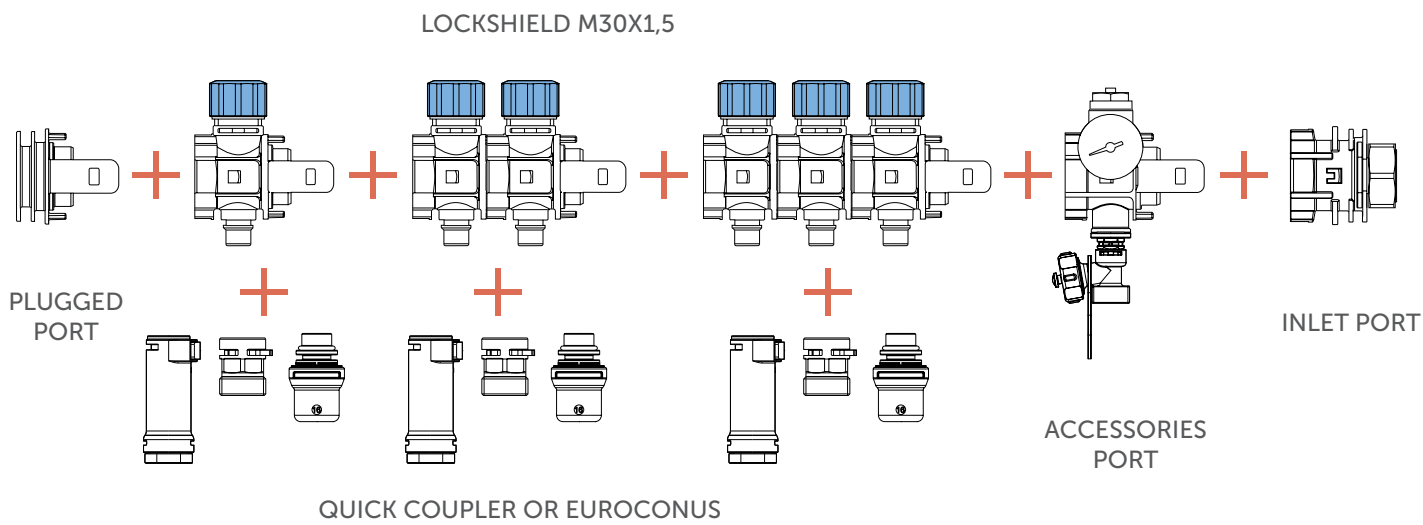


1" AND 1"1/4 MODULAR MANIFOLD Hookup

SUPPLY



RETURN



TECHNICAL DATASHEET

PERFORMANCES	
Fluids accepted	water, glycol solutions
% glycol max	50%
Working temperature	5÷55 °C
Max temperature	90 °C at 3 bar
Working pressure	0÷6 bar
Max pressure	10 bar
Burst pressure	> 22 bar at room temperature > 15 bar at 50 °C

SUPPLY PORT C/W FLOWMETER	
Flow-rate range	0÷5 l/min
Deviation percentage	+ 15%
Max torque to adjust the flow-rate	1 Nm please use the proper adjusting key
KV flow coefficient when fully open	2,04
KV flow coefficient at 5 l/min	0,31
KV flow coefficient at 4 l/min	0,26
KV flow coefficient at 3 l/min	0,20
KV flow coefficient at 2 l/min	0,13
KV flow coefficient at 1 l/min	0,07

RETURN PORT C/W LOCKSHIELD M30X1,5	
Kv flow coefficient	2,80
Stroke of inox pin	2 mm

MATERIALS		
PA12 / PA12 FG30%	PPO FG30%	Peroxidic EPDM
PA6,6 / PA6.6 FG30%	PP	AISI
POM	GRIVORY	Brass



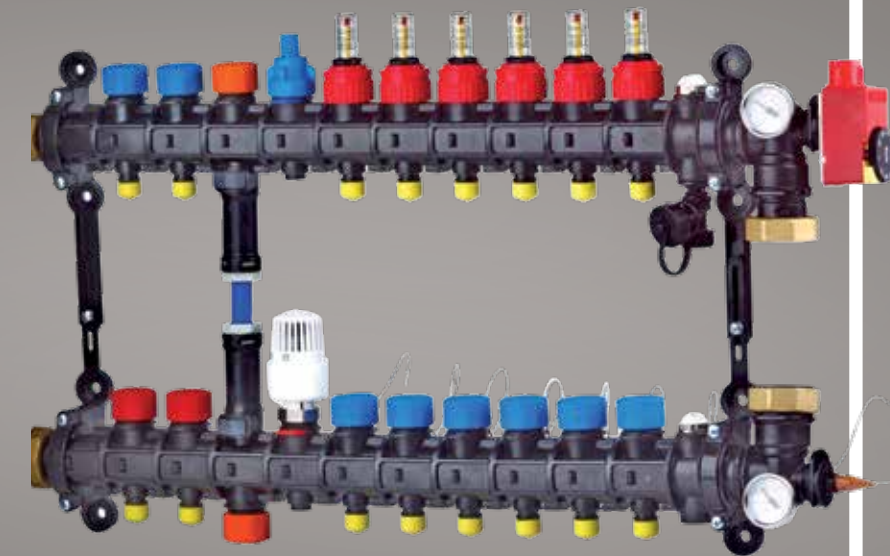
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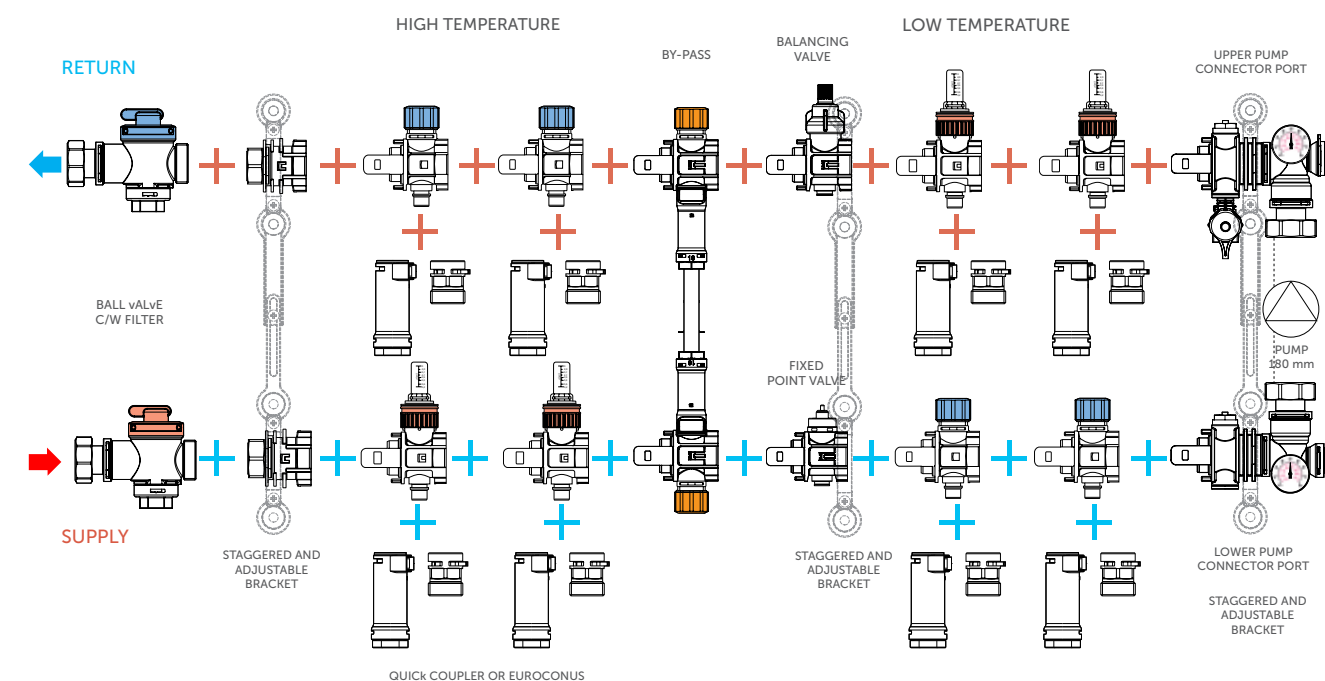
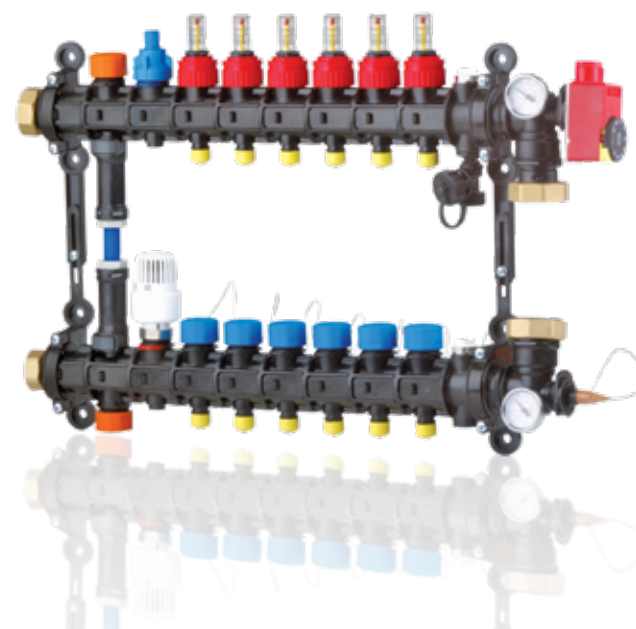
Shape and inner components:
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Transparent components:
PA12

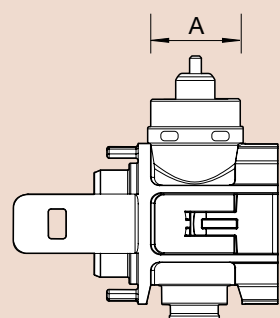


FIXED POINT MIXING GROUP FOR MODULAR MANIFOLD

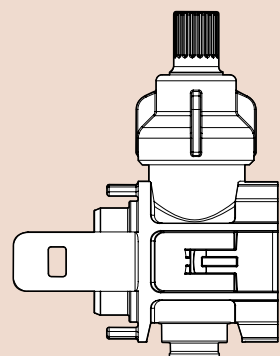
- Dual o-ring in each port
- Fixing in place with the greatest ease even in tight spaces
- To be mounted upon user need
- Optional by-pass
- Pump length: 180 mm



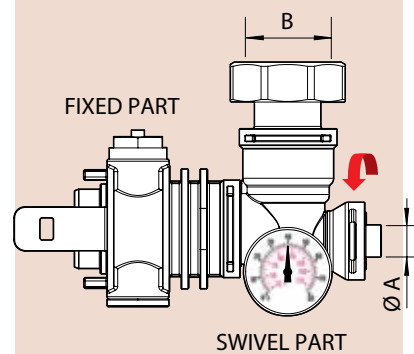
FIXED POINT
MIXING GROUP FOR
MODULAR MANIFOLD



Fixed point valve port		
P/N	A	
RPFM-C	M30x1,5	



Balancing valve port		
P/N		
RPFM-C1		



Lower & upper pump connector port c/w housing for thermo-actuator		
P/N	Ø BULB	B
RGGM-C	11	1"1/2
c/w temperature gauge		
RGGM-C-D	11	1"1/2
c/w temperature gauge and manual air bleed valve		
RGGM-C-B	11	1"1/2
c/w manual air bleed valve, fill/drain system		

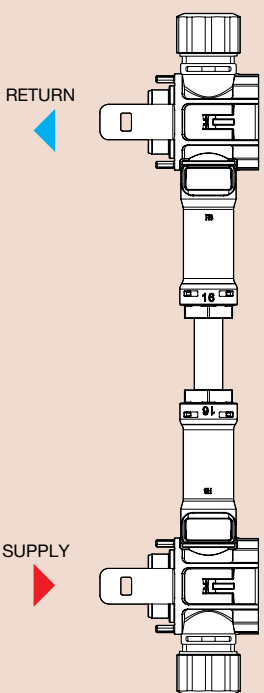
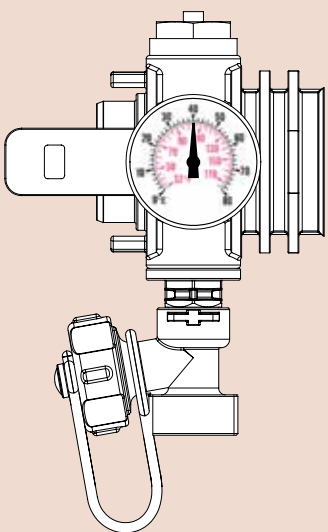
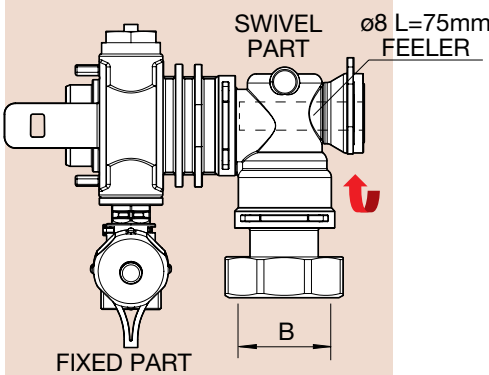
Please contact our technical-sales department for all your needs.

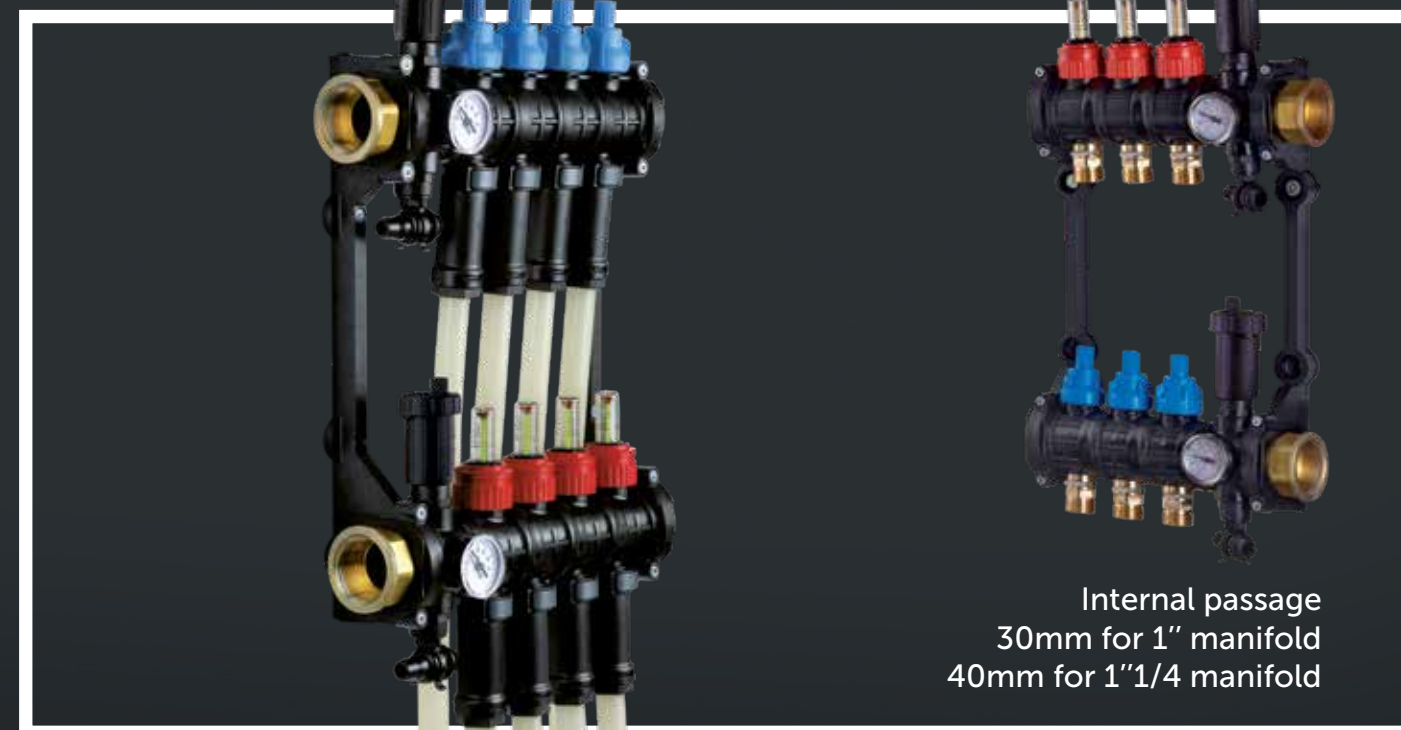
Upper pump connector por t c/w brass feeler for limit control	
P/N	B
RGGM-C-M3/4-A	1"1/2
RGGM-C-M3/4-C	1"1/2
c/w temperature gauge	
RGGM-C-M3/4-B	1"1/2
c/w temperature gauge, manual air bleed valve, fill/drain system	
RGGM-C-M3/4	1"1/2
c/w manual air bleed valve, fill/drain system	
RGGM-C-M3/4-E	1"1/2
c/w housing for thermostatic feeler ø8 L=75mm	

Accessories port for mixing group	
P/N	
RGGM-C-TAPP	
c/w manual air bleed valve, fill/drain system, temperature gauge	

Kit by pass	
P/N	OPENING PRESSURE
RTRGBY-M-A	0,5 ÷ 1 bar
c/w nr. 2 sliding button operated quick couplers and 30 cm of pipe	

Please contact our technical-sales department for all your needs.





1" AND 1 1/4" WELDED MANIFOLD

Connection to pipe by Euroconus connector or quick coupler

Fixing in place with the greatest ease, even in tight spaces

Manifold suitable to be vertically or horizontally mounted

Depth 1" < 80 mm

Depth 1 1/4" < 100 mm



Shape and inner components:

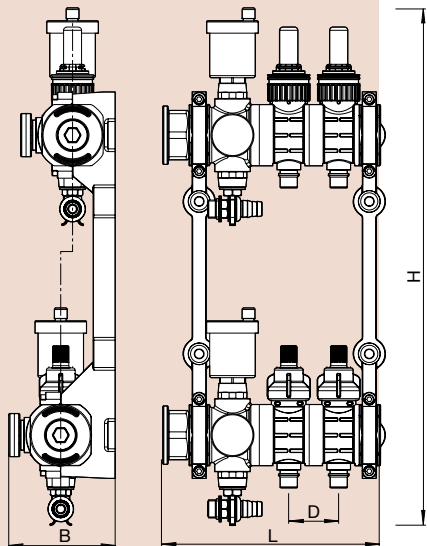
Polymer. It is an amorphous raw material with excellent resistance to temperature (max 100°C permanent), to pressure and buckling. Minimal thermal expansion.

Transparent components:

PA12



1" AND 1"1/4 WELDED MANIFOLD



Supply manifold c/w flow-meters (above) and return manifold c/w lockshields M30x1.5 (below)

P/N	DESCRIPTION	L	D	B	H
ATE-TMDRTTVB/02	2 port pre-assembled manifold	203	46.5	100	482
ATE-TMDRTTVB/03	3 port pre-assembled manifold	250	46.5	100	482
ATE-TMDRTTVB/04	4 port pre-assembled manifold	297	46.5	100	482
ATE-TMDRTTVB/05	5 port pre-assembled manifold	344	46.5	100	482
ATE-TMDRTTVB/06	6 port pre-assembled manifold	391	46.5	100	482
ATE-TMDRTTVB/07	7 port pre-assembled manifold	438	46.5	100	482
ATE-TMDRTTVB/08	8 port pre-assembled manifold	485	46.5	100	482
ATE-TMDRTTVB/09	9 port pre-assembled manifold	532	46.5	100	482
ATE-TMDRTTVB/10	10 port pre-assembled manifold	579	46.5	100	482
ATE-TMDRTTVB/11	11 port pre-assembled manifold	626	46.5	100	482
ATE-TMDRTTVB/12	12 port pre-assembled manifold	673	46.5	100	482
ATE-TMDRTTVB/13	13 port pre-assembled manifold	720	46.5	100	482
ATE-TMDRTTVB/14	14 port pre-assembled manifold	767	46.5	100	482
ATE-TMDRTTVB/15	15 port pre-assembled manifold	814	46.5	100	482
ATE-TMDRTTVB/16	16 port pre-assembled manifold	861	46.5	100	482

Supply manifold c/w flow-meters (below) and return manifold c/w lockshields M30x1.5 (above)

P/N	DESCRIPTION	L	D	B	H
ATE-TTVBTMDR/02	2 port pre-assembled manifold	203	46.5	100	482
ATE-TTVBTMDR/03	3 port pre-assembled manifold	250	46.5	100	482
ATE-TTVBTMDR/04	4 port pre-assembled manifold	297	46.5	100	482
ATE-TTVBTMDR/05	5 port pre-assembled manifold	344	46.5	100	482
ATE-TTVBTMDR/06	6 port pre-assembled manifold	391	46.5	100	482
ATE-TTVBTMDR/07	7 port pre-assembled manifold	438	46.5	100	482
ATE-TTVBTMDR/08	8 port pre-assembled manifold	485	46.5	100	482
ATE-TTVBTMDR/09	9 port pre-assembled manifold	532	46.5	100	482
ATE-TTVBTMDR/10	10 port pre-assembled manifold	579	46.5	100	482
ATE-TTVBTMDR/11	11 port pre-assembled manifold	626	46.5	100	482
ATE-TTVBTMDR/12	12 port pre-assembled manifold	673	46.5	100	482
ATE-TTVBTMDR/13	13 port pre-assembled manifold	720	46.5	100	482
ATE-TTVBTMDR/14	14 port pre-assembled manifold	767	46.5	100	482
ATE-TTVBTMDR/15	15 port pre-assembled manifold	814	46.5	100	482
ATE-TTVBTMDR/16	16 port pre-assembled manifold	861	46.5	100	482

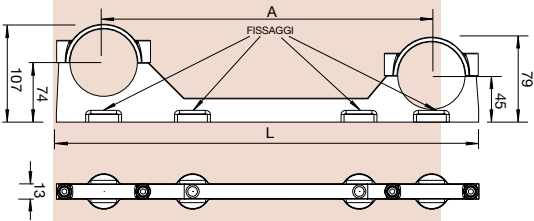
- Manifold includes:
- n. 2 F1-1/4" swivel inlets made of annealing treated brass
 - n. 4 F1/2" threads to connect accessories
 - n. 1 M1/2" plug c/w o-ring
 - n. 1 Reducer M1/2" c/w o-ring -F3/8" with check valve for connecting air bleed valve without emptying the system
 - n. 1 Reducer M1/2" c/w o-ring to fix the temperature gauge
 - n. 2 Fill/drain systems c/w safety plug
 - n. 1 Pair of brackets type RTE-ST-E (other p/n upon request)
 - n. 2 Automatic air bleed valves (manual upon request)

Please contact our technical-sales department for all your needs.

Brackets

P/N	A	L
RTE-ST-A	230	370

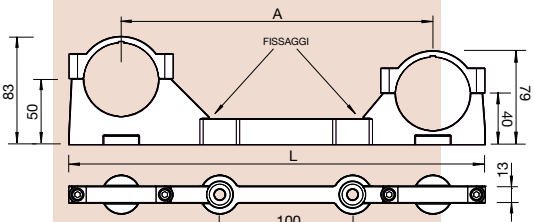
Pump distance 180 mm



Brackets

P/N	A	L
RTE-ST-C	240	360

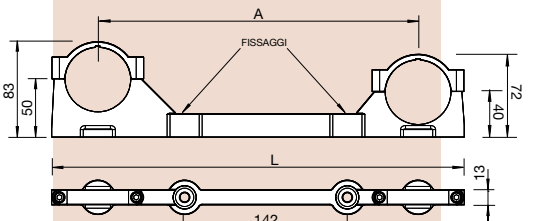
Pump distance 180 mm



Brackets

P/N	A	L
RTE-ST-E	280	360

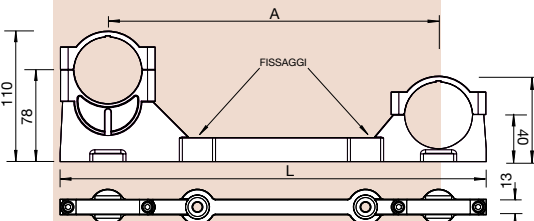
Pump distance 180 mm



Brackets

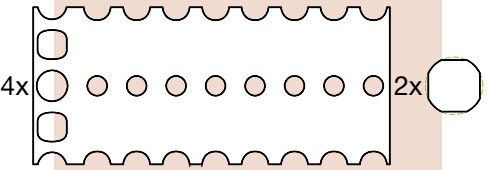
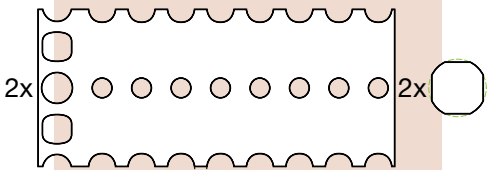
P/N	A	L
RTE-ST-F	280	360

Pump distance 180 mm



Please contact our technical-sales department for all your needs.

1" AND 1"1/4 WELDED MANIFOLD



Insulation for manifold
up to 8 ports

P/N

NGUS0118/8P

Insulation for manifold
from 9 to 16 ports

P/N

NGUS0118/8PX2

1" MANIFOLDS

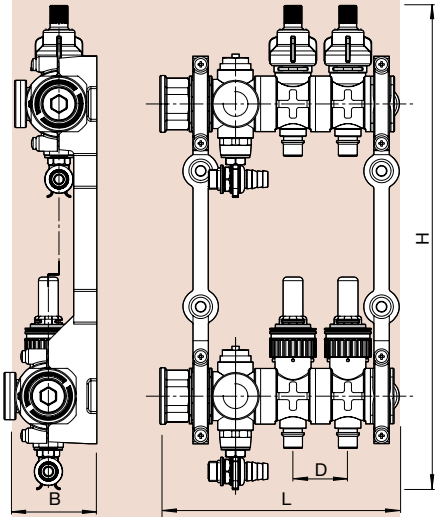
Supply manifold c/w flow-meters (above) and return manifold c/w
lockshields M30x1.5 (below)

P/N	DESCRIPTION	L	D	B	H
ATE1TMDRTVB/02	2 port pre-assembled manifold	198	46.5	78	482
ATE1TMDRTVB/03	3 port pre-assembled manifold	245	46.5	78	482
ATE1TMDRTVB/04	4 port pre-assembled manifold	291	46.5	78	482
ATE1TMDRTVB/05	5 port pre-assembled manifold	337	46.5	78	482
ATE1TMDRTVB/06	6 port pre-assembled manifold	383	46.5	78	482
ATE1TMDRTVB/07	7 port pre-assembled manifold	429	46.5	78	482
ATE1TMDRTVB/08	8 port pre-assembled manifold	475	46.5	78	482
ATE1TMDRTVB/09	9 port pre-assembled manifold	521	46.5	78	482
ATE1TMDRTVB/10	10 port pre-assembled manifold	567	46.5	78	482
ATE1TMDRTVB/11	11 port pre-assembled manifold	613	46.5	78	482
ATE1TMDRTVB/12	12 port pre-assembled manifold	659	46.5	78	482
ATE1TMDRTVB/13	13 port pre-assembled manifold	705	46.5	78	482
ATE1TMDRTVB/14	14 port pre-assembled manifold	751	46.5	78	482
ATE1TMDRTVB/15	15 port pre-assembled manifold	797	46.5	78	482
ATE1TMDRTVB/16	16 port pre-assembled manifold	843	46.5	78	482

Supply manifold c/w flow-meters (below) and return manifold c/w
lockshields M30x1.5 (above)

P/N	DESCRIPTION	L	D	B	H
ATE1TVBTMDR02C	2 port pre-assembled manifold	198	46.5	78	482
ATE1TVRTMDR03C	3 port pre-assembled manifold	245	46.5	78	482
ATE1TVBTMDR04C	4 port pre-assembled manifold	291	46.5	78	482
ATE1TVBTMDR05C	5 port pre-assembled manifold	337	46.5	78	482
ATE1TVBTMDR06C	6 port pre-assembled manifold	383	46.5	78	482
ATE1TVBTMDR07C	7 port pre-assembled manifold	429	46.5	78	482
ATE1TVBTMDR08C	8 port pre-assembled manifold	475	46.5	78	482
ATE1TVBTMDR09C	9 port pre-assembled manifold	521	46.5	78	482
ATE1TVBTMDR10C	10 port pre-assembled manifold	567	46.5	78	482
ATE1TVBTMDR11C	11 port pre-assembled manifold	613	46.5	78	482
ATE1TVBTMDR12C	12 port pre-assembled manifold	659	46.5	78	482
ATE1TVBTMDR13C	13 port pre-assembled manifold	705	46.5	78	482
ATE1TVBTMDR14C	14 port pre-assembled manifold	751	46.5	78	482
ATE1TVBTMDR15C	15 port pre-assembled manifold	797	46.5	78	482
ATE1TVBTMDR16C	16 port pre-assembled manifold	843	46.5	78	482

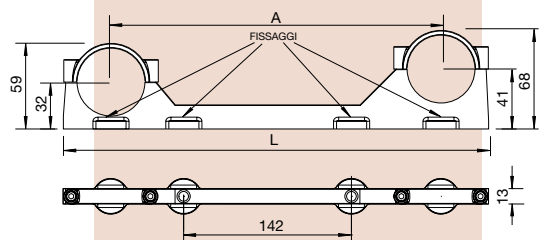
- Manifold includes:
- n. 2 F1" swivel inlets made of annealing treated brass
 - n. 4 F1/2" threads to connect accessories
 - n. 1 M1/2" plug c/w o-ring
 - n. 1 Reducer M1/2" c/w o-ring -F3/8" with check valve for connecting air bleed valve without emptying the system
 - n. 1 Reducer M1/2" c/w o-ring to fix the temperature gauge
 - n. 2 Fill/drain systems c/w safety plug
 - n. 1 Pair of brackets type RTE1-ST (other p/n upon request)
 - n. 2 Manual air bleed valves (automatic upon request)



Please contact our technical-sales department for all your needs.

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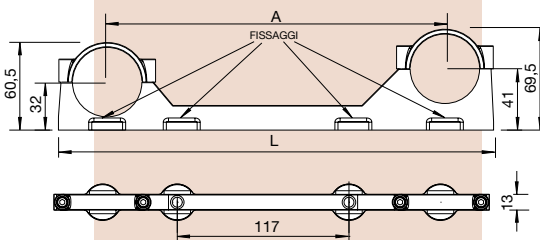
1" AND 1"1/4 WELDED MANIFOLD



Brackets

P/N	A	L
RTE1-ST	280	360

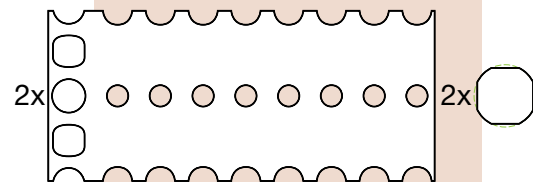
Pump distance 180 mm



Brackets

P/N	A	L
RTE1-ST-C	247	328

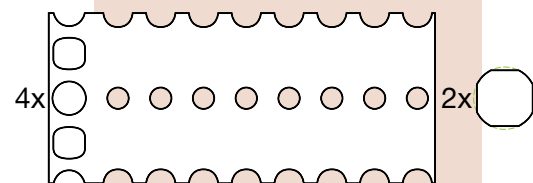
Pump distance 180 mm



Insulation for manifold up to 8 por ts

P/N

NGUSO124/8P



Insulation for manifold from 9 to 16 por ts

P/N

NGUSO124/8PX2



Please contact our technical-sales department for all your needs.

TECHNICAL DATASHEET

PERFORMANCES	
Fluids accepted	water, glycol solutions
% glycol max	50%
Working temperature	5÷55 °C
Max temperature	90 °C at 3 bar
Working pressure	0÷6 bar
Max pressure	10 bar
Burst pressure	> 22 bar at room temperature > 15 bar at 50 °C

SUPPLY PORT C/W FLOWMETER	
Flow-rate range	0÷5 l/min
Deviation percentage	+ 15%
Max torque to adjust the flow-rate	1 Nm please use the proper adjusting key
KV flow coefficient when fully open	1,90
KV flow coefficient at 5 l/min	0,33
KV flow coefficient at 4 l/min	0,27
KV flow coefficient at 3 l/min	0,20
KV flow coefficient at 2 l/min	0,15
KV flow coefficient at 1 l/min	0,07

RETURN PORT C/W LOCKSHIELD M30X1.5	
Kv flow coefficient	2,40
Stroke of inox pin	2,5 mm

MATERIALS		
PA12 / PA12 FG30%	PPO FG30%	AISI
PA6,6 / PA 6.6 FG30%	PP	Peroxidic EPDM
POM	GRIVORY	Brass



Please contact our technical-sales department for all your needs.



SLIDING BUTTON OPERATED QUICK COUPLERS AND ACCESSORIES

Connection

STEP nr.1

Cut the pipe with a cutter to a distance of 30 ± 2 mm from the manifold. Remove burrs from pipe.

STEP nr. 2

Push the pipe into the quick coupler up to the end of stroke.

End of stroke for PE-X/PER-T pipe

Ø 12 = 63 mm

Ø 14 = 63 mm

Ø 16 = 63 mm

Ø 17 = 63 mm

Ø 18 = 63 mm

Ø 20 = 63 mm

End of stroke for Multilayer pipe

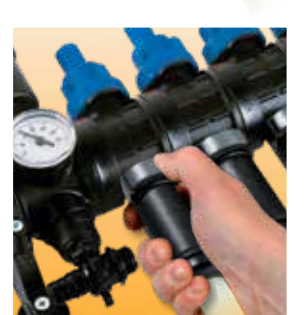
Ø 16 = 52 mm

Ø 17 = 52 mm

Ø 20 = 52 mm

STEP nr. 3

Push the quick coupler up while it slides onto the pipe.

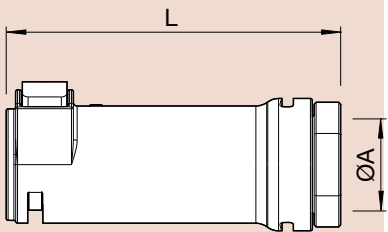


Release

Press the button and remove the quick coupler sliding on the pipe.



ACCESSORIES



Sliding button operated quick coupler To seal on outer diameter (pe-x)			
P/N	ØA	L	
RPLPUTERRB12A	12x2	85	
RPLPUTERRB14	14x2	85	
RPLPUTERRB16	16x2	88	
RPLPUTERRB17	17x2	88	
RPLPUTERRB18	18x2	88	
RPLPUTERRB20	20x2	88	
RPLPUTERRB25	25x2.5	88	

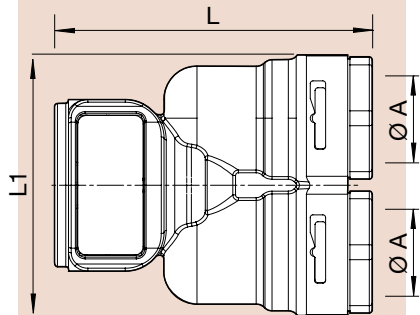
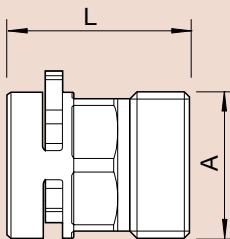
To seal on inner diameter (multilayer)			
P/N	ØA	L	
RPLPUTERRB16/M	16x2	88	
RPLPUTERRB17/M	17x2	88	
RPLPUTERRB20/M	20x2	88	
RPLPUTERRB2025M	20x2.5	88	

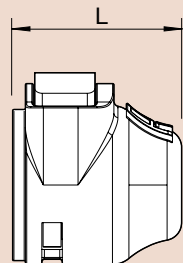
Please contact our technical-sales department for all your needs.

M3/4" Euroconus adapter			
P/N		A	L
58TECM3/4	Materiale ottone	3/4"	33
RTECM3/4	Materiale: PA6.6 FV30%	3/4"	33

Button operated quick coupler c/w Y push-in connector				
P/N	ØA	L	L1	
IPLPUTERRBY08	8x1	52	44	
RPLPUTERRBY10.3	10.3x1.5	58	47	
RPLPUTERRBY12	12x2	58	47	

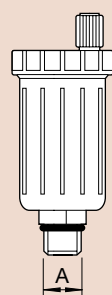
Please contact our technical-sales department for all your needs.



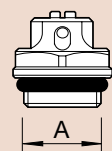


SLIDING BUTTON OPERATED QUICK COUPLERS AND ACCESSORIES

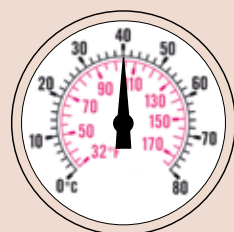
Blanked off coupler		
P/N	L	
RPLPUTER-T	33	



Automatic air bleed valve		
P/N	A	
RTE-SA	3/8"	

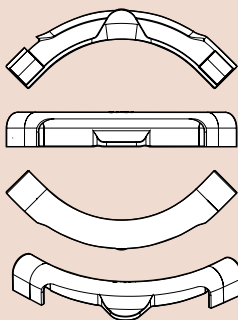


Manual air bleed valve		
P/N	A	
NVS620-1/2	1/2"	
NVS620-3/8	3/8"	



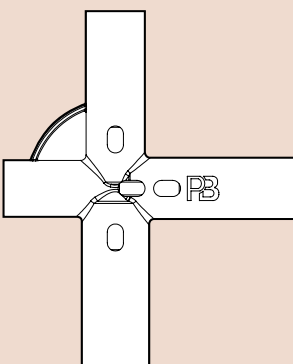
Temperature gauge		
P/N	SCALE	
RTE-TER	0 - 80 °C	

Bent support Ø 16		
P/N	Ø PIPE	
VTE16-18/001	16	

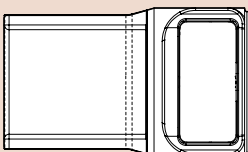


Template for button operated quick couplers For pe-x pipe		
P/N		
RDIMA20181716PC		

For multilayer pipe		
P/N		
RDIMA20181716MC		

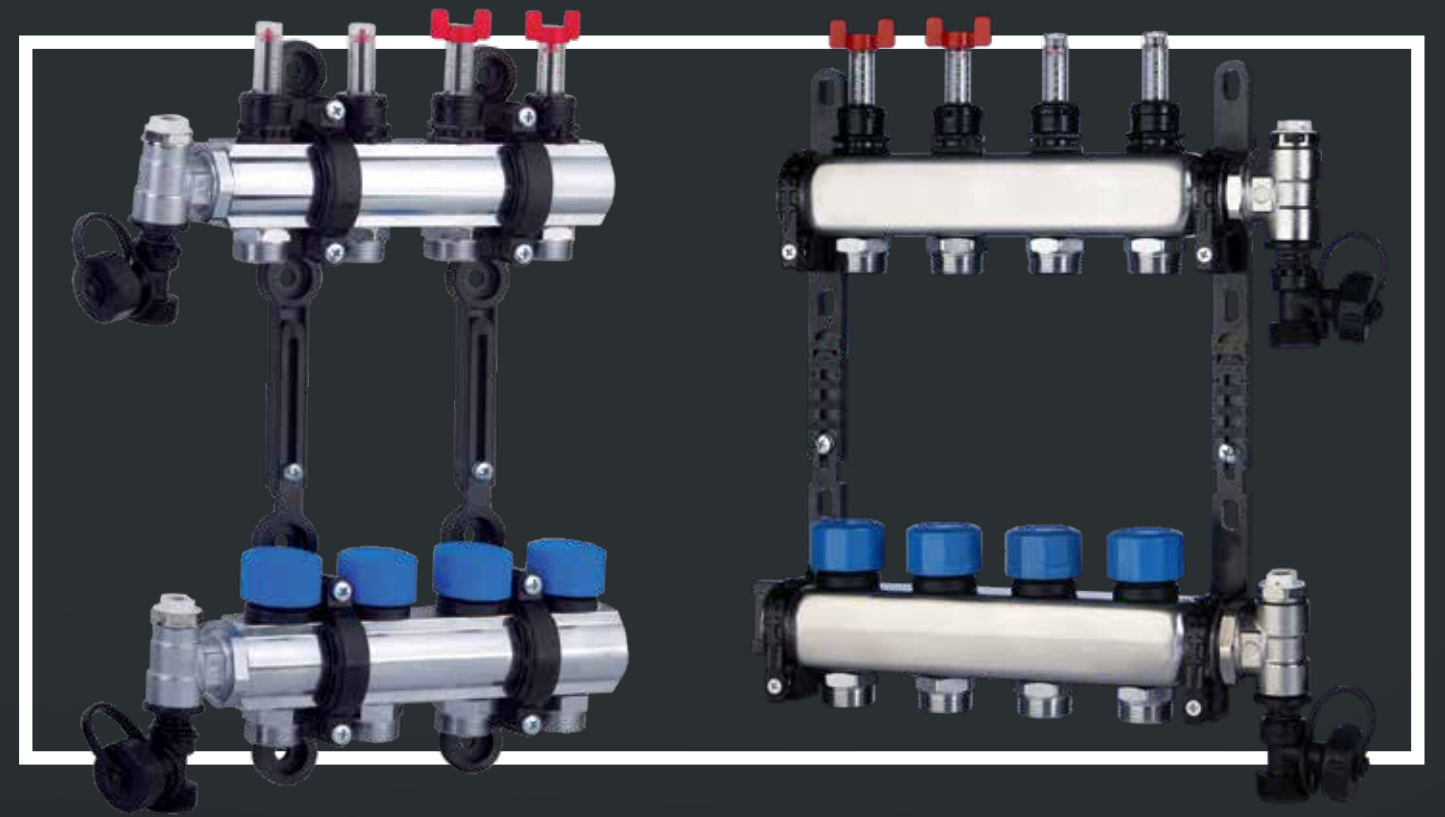


Template for right pipe length to manifold		
P/N		
GDIMA-TE		



Please contact our technical-sales department for all your needs.

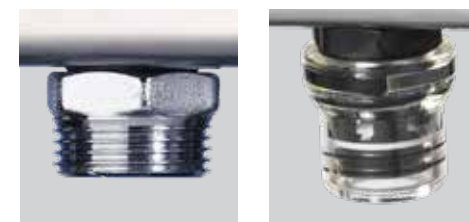
Please contact our technical-sales department for all your needs.



STAINLESS STEEL AND BRASS MANIFOLDS

Components:

- F 1" threaded
- Supply flow-meter 5 L/min (other scale upon request)
- Return lockshield M30x1.5
- Manual air bleed valve (automatic upon request)
- Fill/drain system
- Adjustable brackets
- M3/4" brass Euroconus
- Digital temperature gauge



1" BRASS MANIFOLD



P/N	DESCRIPTION	A
ATE-OR-MDTV-02B	2 port pre-assembled manifold	137
ATE-OR-MDTV-03B	3 port pre-assembled manifold	187
ATE-OR-MDTV-04B	4 port pre-assembled manifold	237
ATE-OR-MDTV-05B	5 port pre-assembled manifold	287
ATE-OR-MDTV-06B	6 port pre-assembled manifold	337
ATE-OR-MDTV-07B	7 port pre-assembled manifold	387
ATE-OR-MDTV-08B	8 port pre-assembled manifold	437
ATE-OR-MDTV-09B	9 port pre-assembled manifold	487
ATE-OR-MDTV-010B	10 port pre-assembled manifold	537
ATE-OR-MDTV-011B	11 port pre-assembled manifold	587
ATE-OR-MDTV-012B	12 port pre-assembled manifold	637

Technical specifications:
Fluid admitted: water/glycol
% glycol max = 50%
Working temperature range = 5 - 55 °C
Working pressure range = 0 - 6 bar
Maximum pressure = 10bar
Bursting pressure at room temperature > 22 bar
Bursting pressure a 50 °C > 15 bar
Distance between each port: 50mm
Adjustable bracket 210-273mm
Staggered and adjustable bracket 200-250mm
Chase depth < 80mm
Chromium plated Tee plug
Manual air bleed valve (automatic upon request)

Flow-meter 5 L/min P/N: ITRGMD05FLM:
Flow-rate range = 0-5 L/m
Accuracy of measurement = +15%
Max torque to adjust the flow-rate: = 1N>m (please use the proper adjusting key)

FLOW-RATE	KV flow coefficient
1 l/min	0,06 m3/h
2 l/min	0,12 m3/h
3 l/min	0,18 m3/h
4 l/min	0,24 m3/h
5 l/min	0,30 m3/h
fully open	0,78 m3/h
Lockshield P/N: RTEV-OR: KV Flow coefficient = 1,92 m3/h Stroke of the pin = 3,8 mm	

Materials:
Brass chromium plated
PPS
PA6,6 FG30%
PA 12
POM
EPDM Perox
AISI

Please contact our technical-sales department for all your needs.

1" BRASS MANIFOLD



P/N	DESCRIPTION	A
AORO02FLTV1S	2 port pre-assembled manifold	232
AORO03FLTV1S	3 port pre-assembled manifold	282
AORO04FLTV1S	4 port pre-assembled manifold	332
AORO05FLTV1S	5 port pre-assembled manifold	382
AORO06FLTV1S	6 port pre-assembled manifold	432
AORO07FLTV1S	7 port pre-assembled manifold	482
AORO08FLTV1S	8 port pre-assembled manifold	532
AORO09FLTV1S	9 port pre-assembled manifold	582
AORO10FLTV1S	10 port pre-assembled manifold	632
AORO11FLTV1S	11 port pre-assembled manifold	682
AORO12FLTV1S	12 port pre-assembled manifold	732

Technical specifications:
Fluid admitted: water/glycol
% glycol max = 50%
Working temperature range = 5 - 55 °C
Working pressure range = 0 - 6 bar
Maximum pressure = 10bar
Bursting pressure at room temperature > 22 bar
Bursting pressure a 50 °C > 15 bar
Distance between each port: 50 mm
Adjustable bracket 210-273mm
Staggered and adjustable bracket 200-250mm
Chase depth < 80mm
Plastic Tee plug
Manual air bleed valve (automatic upon request)

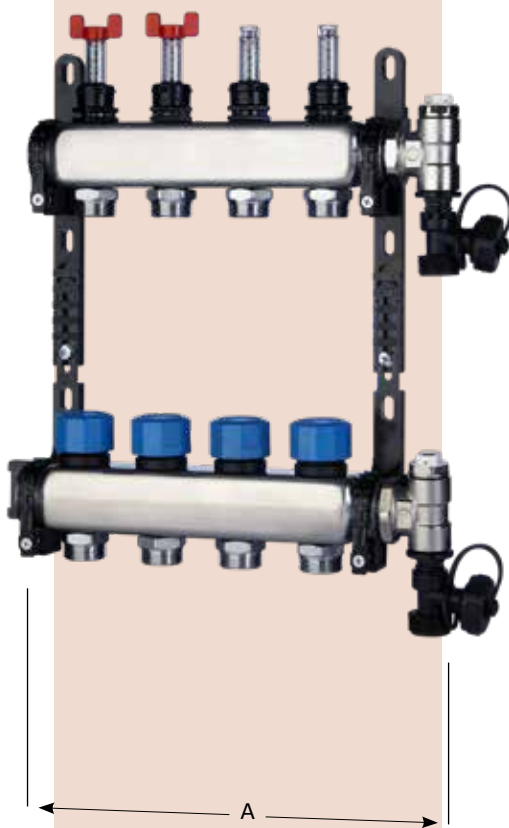
Flow-meter 5 L/min P/N: ITRGMD05FLM:
Flow-rate range = 0-5 L/m
Accuracy of measurement = +15%
Max torque to adjust the flow-rate: = 1N>m (please use the proper adjusting key)

FLOW-RATE	KV flow coefficient
1 l/min	0,06 m3/h
2 l/min	0,12 m3/h
3 l/min	0,18 m3/h
4 l/min	0,24 m3/h
5 l/min	0,30 m3/h
fully open	0,78 m3/h
Lockshield P/N: RTEV-OR: KV Flow coefficient = 1,92 m3/h Stroke of the pin = 3,8 mm	

Materials:
Brass chromium plated
PPS
PA6,6 FG30%
PA 12
POM
EPDM Perox
AISI

Please contact our technical-sales department for all your needs.

1"STAINLESS STEEL MANIFOLD



P/N	DESCRIPTION	A
ATE-OR-MDTV-02C	2 port pre-assembled manifold	183
ATE-OR-MDTV-03C	3 port pre-assembled manifold	233
ATE-OR-MDTV-04C	4 port pre-assembled manifold	283
ATE-OR-MDTV-05C	5 port pre-assembled manifold	333
ATE-OR-MDTV-06C	6 port pre-assembled manifold	383
ATE-OR-MDTV-07C	7 port pre-assembled manifold	433
ATE-OR-MDTV-08C	8 port pre-assembled manifold	483
ATE-OR-MDTV-09C	9 port pre-assembled manifold	533
ATE-OR-MDTV-10C	10 port pre-assembled manifold	583
ATE-OR-MDTV-11C	11 port pre-assembled manifold	633
ATE-OR-MDTV-12C	12 port pre-assembled manifold	683

Technical specifications:
Fluid admitted : water/glycol
% glycol max = 50%
Working temperature range = 5 - 55 °C
Working pressure range = 0 - 6 bar
Maximum pressure = 10bar
Bursting pressure at room temperature > 22 bar
Bursting pressure a 50 °C > 15 bar
Distance between each port: 50mm
Adjustable bracket 210-273mm
Staggered and adjustable bracket 200-250mm
Chase depth < 80mm
Chromium plated Tee plug
Manual air bleed valve (automatic upon request)

Flow-meter 5 L/min P/N: ITRGMD05FLM:
Flow-rate range = 0-5 L/m
Accuracy of measurement = +15%
Max torque to adjust the flow-rate: = 1N>m (please use the proper adjusting key)

FLOW-RATE	KV flow coefficient
1 l/min	0,06 m3/h
2 l/min	0,12 m3/h
3 l/min	0,18 m3/h
4 l/min	0,24 m3/h
5 l/min	0,30 m3/h
fully open	0,78 m3/h
Lockshield P/N: RTEV-OR: KV Flow coefficient = 1,92 m3/h Stroke of the pin = 3,8 mm	

Materials:
AISI
PPS
PA6,6 FG30%
PA 12
POM
EPDM Perox
Brass

Please contact our technical-sales department for all your needs.

1"STAINLESS STEEL MANIFOLD

AORA02FLTV1S

P/N	DESCRIPTION	A
AORA02FLTV1S	2 port pre-assembled manifold	232
AORA03FLTV1S	3 port pre-assembled manifold	282
AORA04FLTV1S	4 port pre-assembled manifold	332
AORA05FLTV1S	5 port pre-assembled manifold	382
AORA06FLTV1S	6 port pre-assembled manifold	432
AORA07FLTV1S	7 port pre-assembled manifold	482
AORA08FLTV1S	8 port pre-assembled manifold	532
AORA09FLTV1S	9 port pre-assembled manifold	582
AORA10FLTV1S	10 port pre-assembled manifold	632
AORA11FLTV1S	11 port pre-assembled manifold	682
AORA12FLTV1S	12 port pre-assembled manifold	732

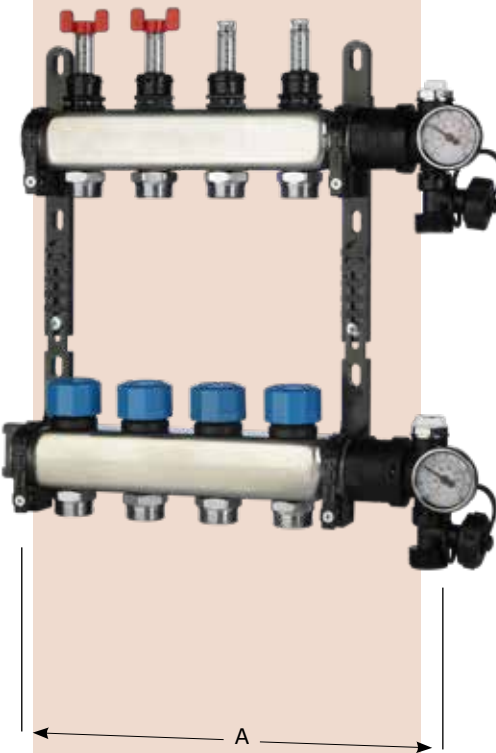
Technical specifications:
Fluid admitted : water/glycol
% glycol max = 50%
Working temperature range = 5 - 55 °C
Working pressure range = 0 - 6 bar
Maximum pressure = 10bar
Bursting pressure at room temperature > 22 bar
Bursting pressure a 50 °C > 15 bar
Distance between each port: 50mm
Adjustable bracket 210-273mm
Staggered and adjustable bracket 200-250mm
Chase depth < 80mm
Plastic Tee plug
Automatic air bleed valve (manual upon request)

Flow-meter 5 L/min P/N: ITRGMD05FLM:
Flow-rate range = 0-5 L/m
Accuracy of measurement = +15%
Max torque to adjust the flow-rate: = 1N>m (please use the proper adjusting key)

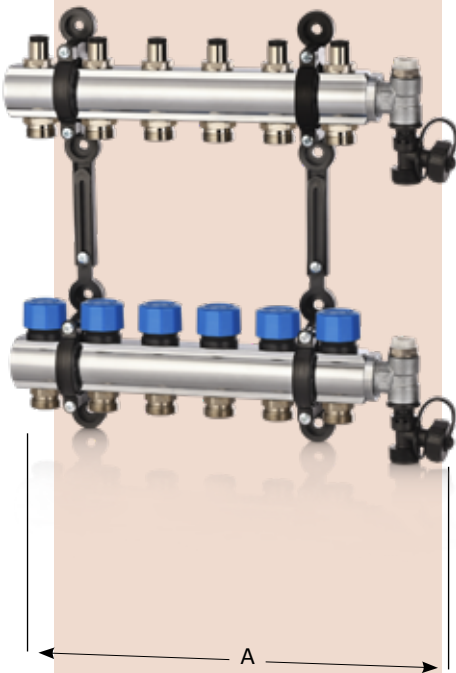
FLOW-RATE	KV flow coefficient
1 l/min	0,06 m3/h
2 l/min	0,12 m3/h
3 l/min	0,18 m3/h
4 l/min	0,24 m3/h
5 l/min	0,30 m3/h
fully open	0,78 m3/h
Lockshield P/N: RTEV-OR: KV Flow coefficient = 1,92 m3/h Stroke of the pin = 3,8 mm	

Materials:
AISI
PPS
PA6,6 FG30%
PA 12
POM
EPDM Perox
Brass

Please contact our technical-sales department for all your needs.



1" RADIBRASS



P/N	DESCRIPTION	A
AORO02RDTVEU	2 port pre-assembled manifold	183
AORO03RDTVEU	3 port pre-assembled manifold	233
AORO04RDTVEU	4 port pre-assembled manifold	283
AORO05RDTVEU	5 port pre-assembled manifold	333
AORO06RDTVEU	6 port pre-assembled manifold	383
AORO07RDTVEU	7 port pre-assembled manifold	433
AORO08RDTVEU	8 port pre-assembled manifold	483
AORO09RDTVEU	9 port pre-assembled manifold	533
AORO10RDTVEU	10 port pre-assembled manifold	583
AORO11RDTVEU	11 port pre-assembled manifold	633
AORO12RDTVEU	12 port pre-assembled manifold	683

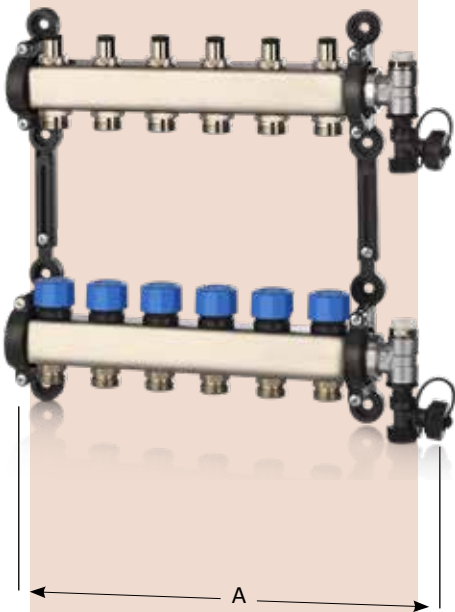
Technical specifications:
Fluid admitted : water/glycol
% glycol max = 50%
Working temperature range = 5 - 100 °C
Working pressure range = 0 - 6 bar
Maximum pressure = 10bar
Bursting pressure at room temperature > 22 bar
Bursting pressure a 50 °C > 15 bar
Distance between each port: 50mm
Adjustable bracket 210-273mm
Staggered and adjustable bracket 200-250mm
Chase depth < 80mm
Chromium plated Tee plug
Manual air bleed valve (automatic upon request)

Materials:
AISI
PPS
PA6,6 FG30%
PA 12
POM
EPDM Perox
Brass

FLOW-RATE	KV flow coefficient
1 loop: KV	0 l/min
2 loops: KV	3,35 l/min
3 loops: KV	17,13 l/min
4 loops: KV	19,31 l/min
5 loops: KV	30,87 l/min
6 loops: KV	46,16 l/min

Please contact our technical-sales department for all your needs.

1" RADINOX



P/N	DESCRIPTION	A
AORA02RDTVEU	2 port pre-assembled manifold	232
AORA03RDTVEU	3 port pre-assembled manifold	282
AORA04RDTVEU	4 port pre-assembled manifold	332
AORA05RDTVEU	5 port pre-assembled manifold	382
AORA06RDTVEU	6 port pre-assembled manifold	432
AORA07RDTVEU	7 port pre-assembled manifold	482
AORA08RDTVEU	8 port pre-assembled manifold	532
AORA09RDTVEU	9 port pre-assembled manifold	582
AORA10RDTVEU	10 port pre-assembled manifold	632
AORA11RDTVEU	11 port pre-assembled manifold	682
AORA12RDTVEU	12 port pre-assembled manifold	732

Technical specifications:
Fluid admitted : water/glycol
% glycol max = 50%
Working temperature range = 5 - 55 °C
Working pressure range = 0 - 6 bar
Maximum pressure = 10bar
Bursting pressure at room temperature > 22 bar
Bursting pressure a 50 °C > 15 bar
Distance between each port: 50mm
Adjustable bracket 210-273mm
Staggered and adjustable bracket 200-250mm
Chase depth < 80mm
Plastic Tee plug
Automatic air bleed valve (manual upon request)

FLOW-RATE	KV flow coefficient
1 loop: KV	0 l/min
2 loops: KV	3,35 l/min
3 loops: KV	17,13 l/min
4 loops: KV	19,31 l/min
5 loops: KV	30,87 l/min
6 loops: KV	46,16 l/min

Please contact our technical-sales department for all your needs.

Materials:
AISI
PPS
PA6,6 FG30%
PA 12
POM
EPDM Perox
Brass

1" BRASS MANIFOLD DIN



P/N	DESCRIPTION	A
AORO02FLDTVEU	2 port pre-assembled manifold	183
AORO03FLDTVEU	3 port pre-assembled manifold	233
AORO04FLDTVEU	4 port pre-assembled manifold	283
AORO05FLDTVEU	5 port pre-assembled manifold	333
AORO06FLDTVEU	6 port pre-assembled manifold	383
AORO07FLDTVEU	7 port pre-assembled manifold	433
AORO08FLDTVEU	8 port pre-assembled manifold	483
AORO09FLDTVEU	9 port pre-assembled manifold	533
AORO10FLDTVEU	10 port pre-assembled manifold	583
AORO11FLDTVEU	11 port pre-assembled manifold	633
AORO12FLDTVEU	12 port pre-assembled manifold	683
AORO13FLDTVEU	13 port pre-assembled manifold	733

Technical specifications:
Fluid admitted : water/glycol
% glycol max = 50%
Working temperature range = 5 - 100 °C
Working pressure range = 0 - 10 bar
Maximum pressure = 15 bar
Bursting pressure at room temperature > 22 bar
Bursting pressure a 50 °C > 15 bar
Distance between each port: 50mm
Adjustable bracket 210-273mm
Staggered and adjustable bracket 200-250mm
Chase depth < 80mm
Chromium plated Tee plug
Manual air bleed valve (automatic upon request)
Adjustable valve on/off
Lock shield m 30x1.5

Din flow-meter 5 L/min P/N: RTRGMD/FLD:
Flow-rate range = 0-5 L/m
Accuracy of measurement = +15%
Max torque to adjust the flow-rate: = 1N>m (please use the proper adjusting key)

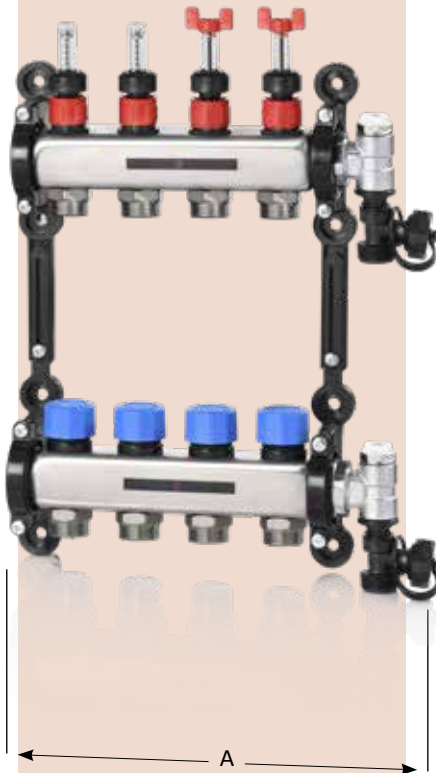
FLOW-RATE	KV flow coefficient
1 l/min	0,05 m3/h
2 l/min	0,10 m3/h
3 l/min	0,16 m3/h
4 l/min	0,22 m3/h
5 l/min	0,30 m3/h
fully open	1,25 m3/h

Lockshield P/N: RTEV-OR:
KV Flow coefficient = 1,92 m3/h
Stroke of the pin = 3,8 mm

Materials:

AISI
PPS
PA6,6 FG30%
PA 12
POM
EPDM Perox
Brass

1" STAINLESS STEEL MANIFOLD DIN



P/N	DESCRIPTION	A
AORA02FLDTVEU	2 port pre-assembled manifold	232
AORA03FLDTVEU	3 port pre-assembled manifold	282
AORA04FLDTVEU	4 port pre-assembled manifold	332
AORA05FLDTVEU	5 port pre-assembled manifold	382
AORA06FLDTVEU	6 port pre-assembled manifold	432
AORA07FLDTVEU	7 port pre-assembled manifold	482
AORA08FLDTVEU	8 port pre-assembled manifold	532
AORA09FLDTVEU	9 port pre-assembled manifold	582
AORA10FLDTVEU	10 port pre-assembled manifold	632
AORA11FLDTVEU	11 port pre-assembled manifold	682
AORA12FLDTVEU	12 port pre-assembled manifold	732
AORA13FLDTVEU	13 port pre-assembled manifold	782

Technical specifications:
Fluid admitted : water/glycol
% glycol max = 50%
Working temperature range = 5 - 100 °C
Working pressure range = 0 - 10 bar
Maximum pressure = 15 bar
Bursting pressure at room temperature > 22 bar
Bursting pressure a 50 °C > 15 bar
Distance between each port: 50mm
Adjustable bracket 210-273mm
Staggered and adjustable bracket 200-250mm
Chase depth < 80mm
Plastic Tee plug
Automatic air bleed valve (manual upon request)
Adjustable valve on/off
Lock shield m 30x1.5

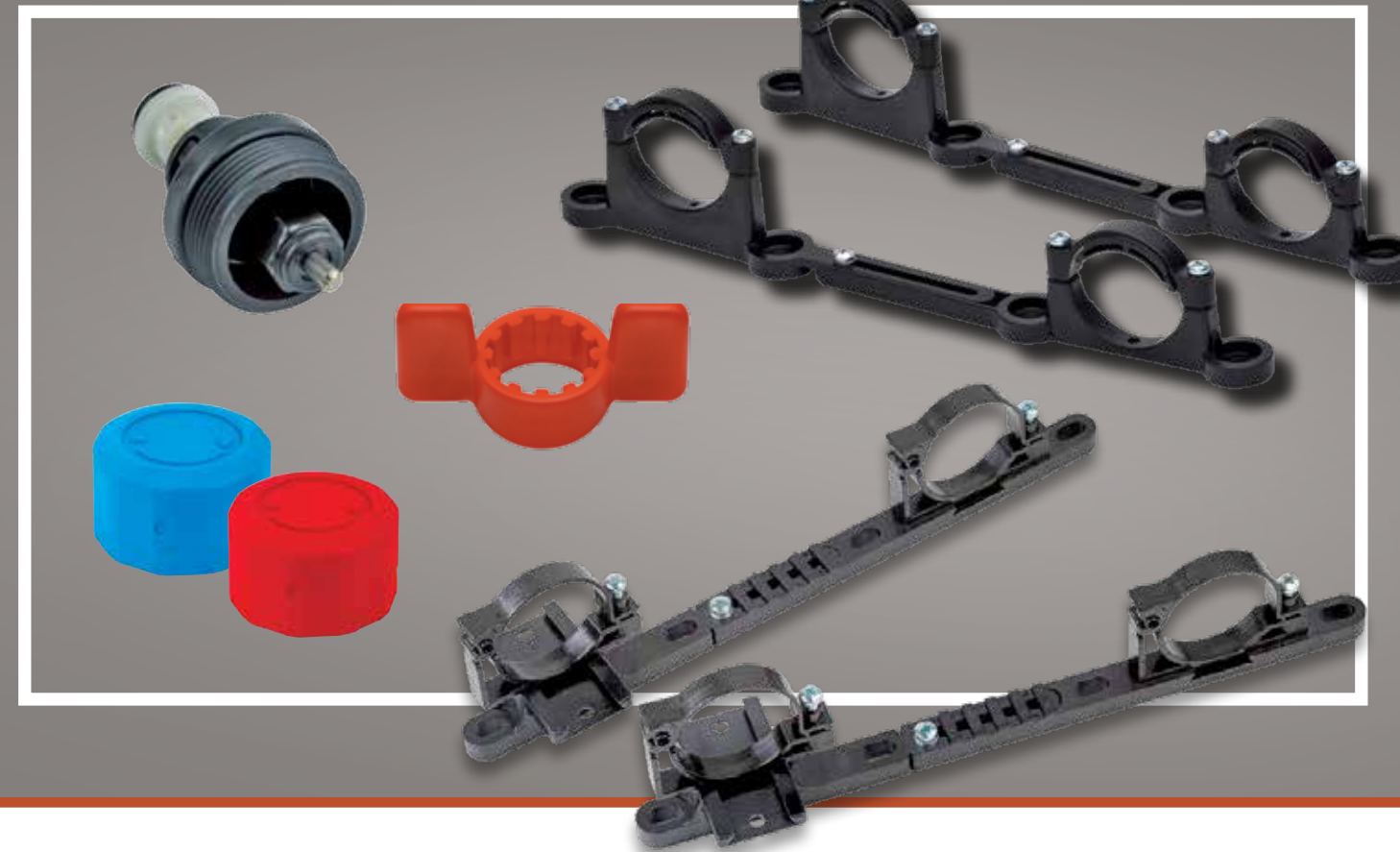
Din flow-meter 5 L/min P/N: RTRGMD/FLD:
Flow-rate range = 0-5 L/m
Accuracy of measurement = +15%
Max torque to adjust the flow-rate: = 1N>m (please use the proper adjusting key)

FLOW-RATE	KV flow coefficient
1 l/min	0,05 m3/h
2 l/min	0,10 m3/h
3 l/min	0,16 m3/h
4 l/min	0,22 m3/h
5 l/min	0,30 m3/h
fully open	1,25 m3/h

Lockshield P/N: RTEV-OR:
KV Flow coefficient = 1,92 m3/h
Stroke of the pin = 3,8 mm

Materials:

AISI
PPS
PA6,6 FG30%
PA 12
POM
EPDM Perox
Brass



ACCESSORIES FOR STAINLESS STEEL AND BRASS MANIFOLDS

Accessories shape:

Polymer. Excellent resistance to temperature, to pressure and buckling.

Minimal thermal expansion.

Transparent components:

PA12.

O-ring:

EPDM Perox 70 Sh.

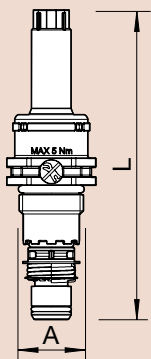
Spring and lockshield pin:

Stainless steel.



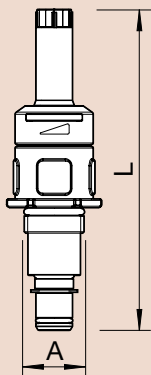
ACCESSORIES FOR STAINLESS STEEL AND BRASS MANIFOLD

Flow-meter on supply manifold



Flow-meter			
P/N	A	B	FLOW-RATE RANGE
ITRGMD026FLM	1/2"	100	0-2,6 l/min
ITRGMD04FLM	1/2"	100	0-4 l/min
ITRGMD05FLM	1/2"	100	0-5 l/min
ITRGMD05FLMSTM	1/2"	100	0-5 l/min

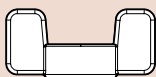
Bar outer diameter: Ø 41 mm
Item to be combined with P/N NNIDM1/2-3/4 or equivalent



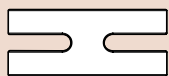
DIN Flow-meter			
P/N	A	L	FLOW-RATE RANGE
RTRGMD/FLD	1/2"	112,8	0-5 l/min

Bar outer diameter: Ø 41 mm
Item to be combined with P/N NNIDM1/2-3/4 or equivalent

Accessories for flow-meter



Adjusting key	
P/N	COLOUR
UT30	black
UT30/001	red
UT30/002	magenta



Memory ring	
P/N	COLOUR
RTRGMD-MEM-A	red

Please contact our technical-sales department for all your needs.

TECHNICAL DATASHEET

Flow-Meter For Supply Manifold of 2,6 L/min P/N: ITRGMD026FLM

PERFORMANCES	
Fluids accepted	water, glycol solutions
% glycol max	50%
Working temperature	5÷55 °C
Max temperature	90 °C at 3 bar
Working pressure	0÷6 bar
Max pressure	10 bar
Burst pressure	> 22 bar at room temperature > 15 bar at 50 °C
Flow-rate range	0÷2,6 l/min
Accuracy of measurement	+ 15%
Max torque to adjust the flow-rate	1 Nm please use the proper adjusting key
Max torque to lock the flow-meter to the manifold	Max 5 Nm
Suggested glue to lock the flow-meter	Loctite 5331

KV FLOW COEFFICIENT	
Kv flow coefficient with flow-meter fully open	0,22 m3/h
Kv flow coefficient with flow-meter at 2,6 L/min	0,15 m3/h
Kv flow coefficient with flow-meter at 2 L/min	0,12 m3/h
Kv flow coefficient with flow-meter at 1,5 L/min	0,09 m3/h
Kv flow coefficient with flow-meter at 1 L/min	0,06 m3/h
Kv flow coefficient with flow-meter at 0,5 L/min	0,03 m3/h

MATERIALS	
PA12 / FG30% / PA12	AISI
PA6,6 FG30%	EPDM Perox
POM	PPS

Please contact our technical-sales department for all your needs.



TECHNICAL DATASHEET

Flow-Meter For Supply Manifold of 4 L/min
P/N: ITRGMD04FLM

PERFORMANCE	
Fluids accepted	water, glycol solutions
% glycol max	50%
Working temperature	5÷55 °C
Max temperature	90 °C at 3 bar
Working pressure	0÷6 bar
Max pressure	10 bar
Bursting pressure	> 22 bar at room temperature > 15 bar at 50 °C
Flow-rate range	0÷4 l/min
Accuracy of measurement	+ 15%
Max torque to adjust the flow-rate	1 Nm please use the proper adjusting key
Max torque to lock the flow-meter to the manifold	Max 5 Nm
Suggested glue to lock the flow-meter	Loctite 5331

KV FLOW COEFFICIENT	
Kv flow coefficient with flow-meter fully open	0,78 m3/h
Kv flow coefficient with flow-meter at 4 L/min	0,24 m3/h
Kv flow coefficient with flow-meter at 3 L/min	0,18 m3/h
Kv flow coefficient with flow-meter at 2 L/min	0,12 m3/h
Kv flow coefficient with flow-meter at 1 L/min	0,06 m3/h

MATERIALS	
PA12 / PA12 FG30%	AISI
PA6,6 FG30%	EPDM Perox
POM	PPS

Please contact our technical-sales department for all your needs.

TECHNICAL DATASHEET

Flow-Meter For Supply Manifold of 5 L/min
P/N: ITRGMD05FLM

PERFORMANCE	
Fluids accepted	water, glycol solutions
% glycol max	50%
Working temperature	5÷55 °C
Max temperature	90 °C at 3 bar
Working pressure	0÷6 bar
Max pressure	10 bar
Bursting pressure	> 22 bar at room temperature > 15 bar at 50 °C
Flow-rate range	0÷4 l/min
Accuracy of measurement	+ 15%
Max torque to adjust the flow-rate	1 Nm please use the proper adjusting key
Max torque to lock the flow-meter to the manifold	Max 5 Nm
Suggested glue to lock the flow-meter	Loctite 5331

KV FLOW COEFFICIENT	
Kv flow coefficient with flow-meter fully open	0,78
Kv flow coefficient with flow-meter at 5 L/min	0,30
Kv flow coefficient with flow-meter at 4 L/min	0,24
Kv flow coefficient with flow-meter at 3 L/min	0,18
Kv flow coefficient with flow-meter at 2 L/min	0,12
Kv flow coefficient with flow-meter at 1 L/min	0,06

MATERIALS	
PA12 / PA12 FG30%	AISI
PA6,6 FG30%	EPDM Perox
POM	PPS

Please contact our technical-sales department for all your needs.

TECHNICAL DATASHEET

DIN Flow-Meter (mechanical memory)
For Supply Manifold, 5 L/min

PERFORMANCE	
Fluids accepted	water, glycol solutions
% glycol max	50%
Working temperature	5÷55 °C
Max temperature	90 °C at 3 bar
Working pressure	0÷6 bar
Max pressure	10 bar
Bursting pressure	> 22 bar at room temperature > 15 bar at 50 °C
Flow-rate range	0÷5 l/min
Accuracy of measurement	+ 15%
Max torque to adjust the flow-rate	0,35 Nm please use the proper adjusting key
Max torque to lock the flow-meter to the manifold	max 5 Nm
Suggested glue to lock the flow-meter	Loctite 5331

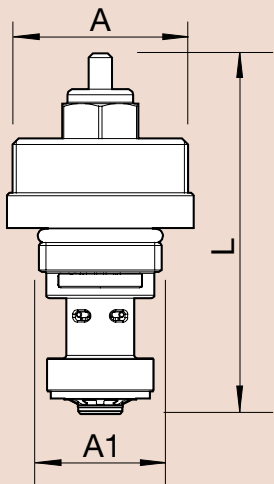
KV FLOW COEFFICIENT	
Kv flow coefficient with flow-meter fully open	1,25 m3/h
Kv flow coefficient with flow-meter at 5 L/min	0,30 m3/h
Kv flow coefficient with flow-meter at 4 L/min	0,22 m3/h
Kv flow coefficient with flow-meter at 3 L/min	0,16 m3/h
Kv flow coefficient with flow-meter at 2 L/min	0,10 m3/h
Kv flow coefficient with flow-meter at 1 L/min	0,05 m3/h

MATERIALS	
PA12	AISI 302
PA6,6 GF30	EPDM perossidico
POM	ABS
PPA GF40	

Please contact our technical-sales department for all your needs.



ACCESSORIES FOR STAINLESS STEEL AND BRASS MANIFOLD

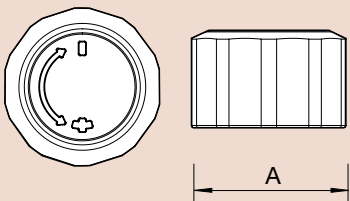


Lockshield M30x1.5

Lockshield			
P/N	A	A1	L
GTEV-OR	M30x1.5	1/2"	61.5
Bar outer diameter: Ø 41mm Item to be combined with P/N: NNIDM1/2-3/4 or equivalent			

Accessories for Lockshield

Cap for lockshield		
P/N	A	COLOUR
QTEV-PB	M30x1.5	red
QTEV-PB/001	M30x1.5	blue
QTEV-PB/002	M30x1.5	light grey
QTEV-PB/003	M30x1.5	orange
QTEV-PB/004	M30x1.5	black
QTEV-PB/005	M30x1.5	dark grey



Please contact our technical-sales department for all your needs.

TECHNICAL DATASHEET

LOCKSHIELD FOR MANIFOLD P/N: GTEV-OR

PERFORMANCES	
Fluids accepted	water, glycol solutions
% glycol max	50%
Working temperature	5÷55 °C
Max temperature	90 °C at 3 bar
Working pressure	0÷6 bar
Max pressure	10 bar
Bursting pressure	> 22 bar at room temperature > 15 bar at 50 °C
Outer diameter ba	Ø 40,7 mm
Stroke of pin	3,8 mm
KV Flow coefficient	1,92 m3/h
Max torque to lock the flow-meter to the manifold	Max 5 Nm
Suggested glue to lock the flow-meter	Loctite 5331

MATERIALS
AISI / PA6,6 FG30% / EPDM Perox



Please contact our technical-sales department for all your needs.

ACCESSORIES FOR STAINLESS STEEL AND BRASS MANIFOLD

Accessories

Temperature digital gauge				
P/N	L	A	SCALE	
NTER77x08-05-55	107	8	2 - 50 °C	

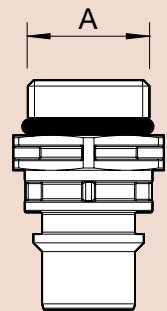
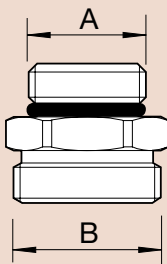
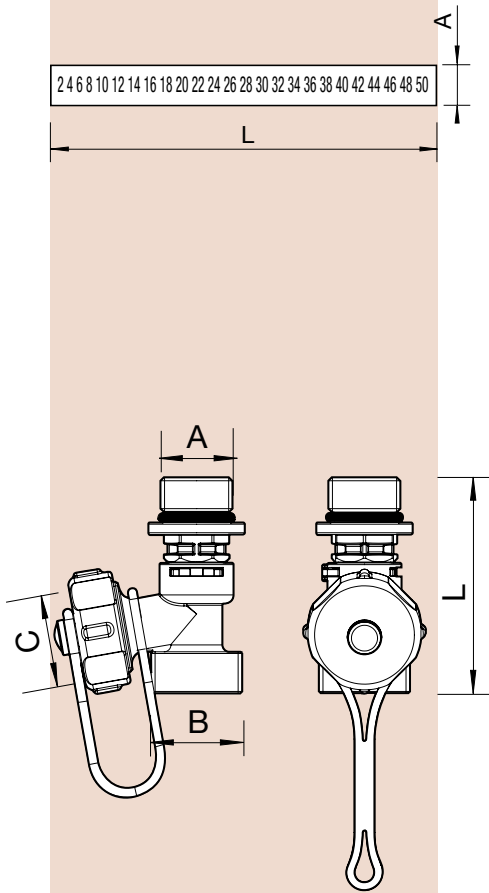
Fill/drain valve c/w safety cap				
P/N	A	B	C	L
RTCATM1/2-3/4	1/2"	3/4"	3/4"	63

Reducer M1/2" to M3/4" in brass		
P/N	A	B
NNIDM1/2-3/4	1/2"	3/4"

Detailed drawing supplied upon request
Item to be combined with the flow-meter and the lockshield

M1/2" threaded plastic connector to quick coupler	
P/N	A
IIPU25M1/2-FL	1/2"

Item to be combined with the flow-meter and the lockshield



Please contact our technical-sales department for all your needs.

Please contact our technical-sales department for all your needs.

SmartPB

NEW 2019

TIME SAVING

PATENTED

EASY TO USE

TIME SAVING

The time to insert PE-RT or PEX into a SMART PB connector is a fraction of the time required for other fitting systems. You eliminate the problem and time necessary for handling multiple components and tools.

To complete a plumbing system for a four bedroom, three and a half bath house utilizing either PE-RT or PEX piping will require approximately 100 connections. Other connection systems require multiple components, tools and gauges for completion and verification.

The Smart PB connection system requires no tools and makes a permanent and verifiable connection instantly. When you see pipe at the end of the stroke you know the connection is complete and it is instantly verifiable through the transparent glass.

Smart PB connection is easy and five times faster.

EASY TO USE

The SmartPB connector for PE-RT and PEX tubing is easy to use. There are no other components or tools necessary. There is no need to measure the insertion depth of the pipe. Simply insert the piping until you see pipe at the end of the stroke for a complete and permanent connection. Smart PB connector is for use in potable water plumbing and hydronic systems utilizing PE-RT or PE-X.

The fittings are third party certified by MPA Lab to be EN ISO 13875-4. SmartPB is patented. SmartPB is made by PPSU body and PA12 transparent glass.

SmartPB is warranty for a 50 years.

Transparent push in connectors for bar manifolds

P/N	ØB	A
IR14-M1/2TEV	14	1/2"
IR15-M1/2TEV	15	1/2"
IR16-M1/2TEV	16	1/2"
IR17-M1/2TEV	17	1/2"
IR20-M1/2TEV	20	1/2"

Item to be combined with the flow-meter and the lockshield

100

CONNECTIONS

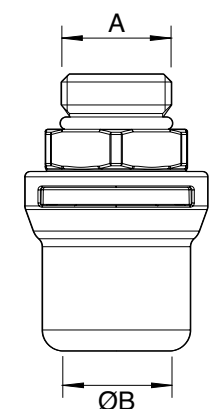
FIVE TIMES

FASTER



NO TOOLS

NEEDED



ACCESSORIES FOR STAINLESS STEEL AND BRASS MANIFOLD

Pair of adjustable bracket for stainless steel manifold

Pair of adjustable brackets for stainless steel manifold

P/N	A	H	L
GTE1-ST-TL-X2R1	210	75	273

Pump distance 180 mm

Pair of adjustable brackets for brass manifold

P/N	A	H	L
GTE1-ST-TLA2MTR	210	75	273

Pump distance 180 mm

Pair of adjustable and staggered brackets for brass manifold

P/N		H	H1	L
GTE1-ST-TL3ORO2	Low version	76	59	200-250
GTE1-STTL3OROA2	High version	96	59	200-250

Pair of adjustable and staggered brackets for brass manifold

P/N		H	H1	L
GTE1-ST-TL1ORO2	Low version	78,5	59	200-250
GTE1-STTL1OROA2	High version	98,5	59	200-250

Pair of adjustable and staggered brackets for stainless steel manifold

P/N		H	H1	L
GTE1-ST-TL3ORA2	Low version	78,5	59	200-250
GTE1-STTL3ORAA2	High version	98,5	59	200-250

Please contact our technical-sales department for all your needs.

Pair of adjustable and not staggered brackets for stainless manifold

P/N		H	H1	L
GTE1-ST-TL1ORA2	Low version	78,5	59	200-250
GTE1-STTL1ORAA2	High version	98,5	59	200-250

Labels

P/N	L	H	COLOUR
NET-TE/002	55	230	red
NET-TE/003	55	230	blue

Plastic Tee plug for chromium plated brass manifold & stainless steel

P/N	A	B
RORO3V-SM-C3/4T	1"	3/4"

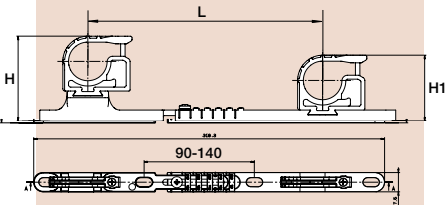
c/w temperature gauge, manual air bleed valve and fill/drain system

Plastic Tee plug for chromium plated brass manifold & stainless steel

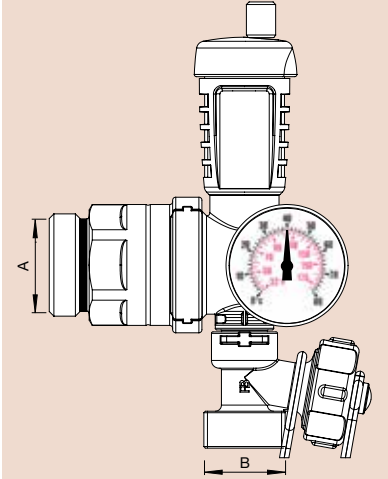
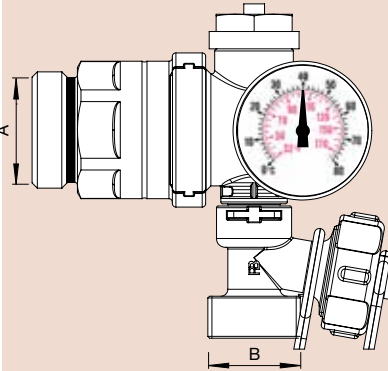
P/N	A	B
RORO3V-SA-C3/4T	1"	3/4"

c/w temperature gauge, automatic air bleed valve and fill/drain system

Please contact our technical-sales department for all your needs.



Supply	Supply
Return	Return
Bathroom 3	Bathroom 3
Bathroom 2	Bathroom 2
Bathroom 1	Bathroom 1
Kitchen 2	Kitchen 2
Kitchen 1	Kitchen 1
Room 2	Room 2
Room 3	Room 3
Room 1	Room 1
children's room 3	children's room 3
children's room 2	children's room 2
children's room 1	children's room 1
Passage 2	Passage 2
Passage 1	Passage 1
Garage	Garage
Living room 4	Living room 4
Living room 3	Living room 3
Living room 2	Living room 2
Living room 1	Living room 1
Dining room 3	Dining room 3
Dining room 2	Dining room 2
Dining room 1	Dining room 1



TRANSPARENT ADAPTERS AND PUSH-IN CONNECTORS FOR WALL AND CEILING RADIANT SYSTEMS



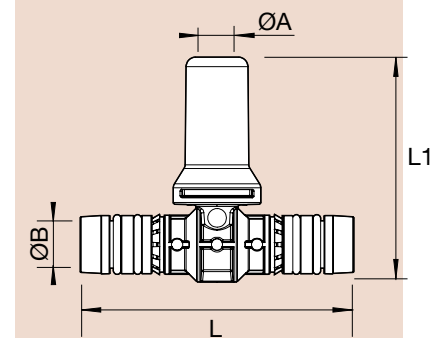
Shape and inner components:

Polymer. It is an amorphous raw material with excellent resistance to temperature (max 100°C permanent), to pressure and buckling. Minimal thermal expansion..

Technical specifications:

For PE-X pipe: black bayonet
For multilayer pipe: grey bayonet
Upon request coloured bayonet (red & blue).

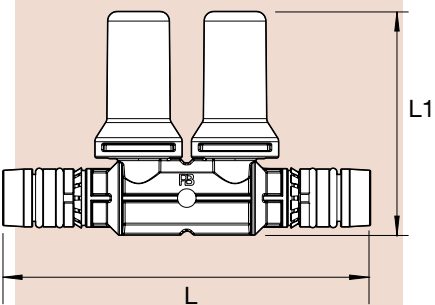
TRASPARENT ADAPTERS AND PUSH-IN CONNECTORS



NEW 2018

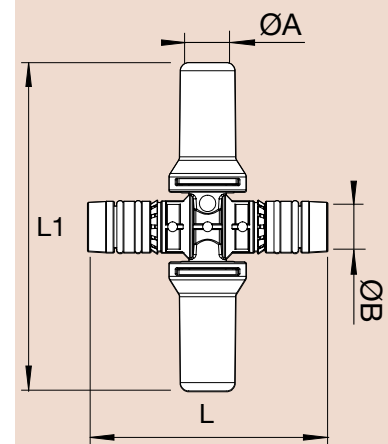
Single Tee reducer

P/N	A	B	L	L1
IR08-20M	8x1	20x2	73	60



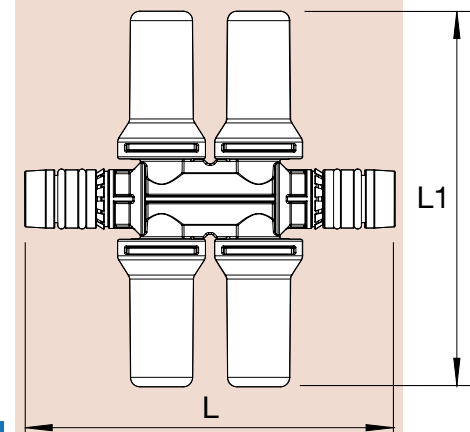
Double Tee reducer

P/N	A	B	L	L1
IR082L20M	8x1	20x2	99	100



Single Cross reducer

P/N	ØA	ØB	L	L1
IR08C20M	8x1	20x2	73	100



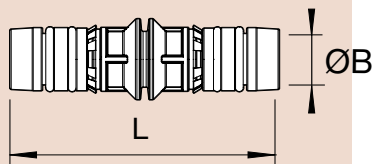
Double Cross reducer

P/N	ØA	ØB	L	L1
IR08CC20M	8x1	20x2	99	100

Please contact our technical-sales department for all your needs.

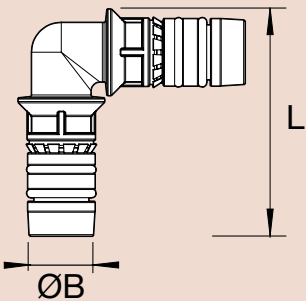
Straight push in connector

P/N	ØB	L
RRD-20M	20x2	67



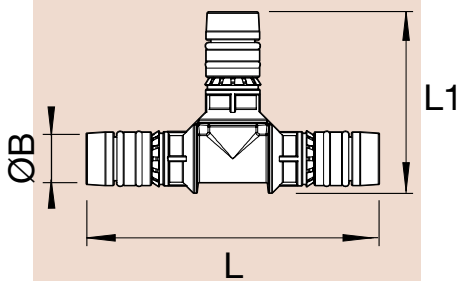
Elbow push in connector

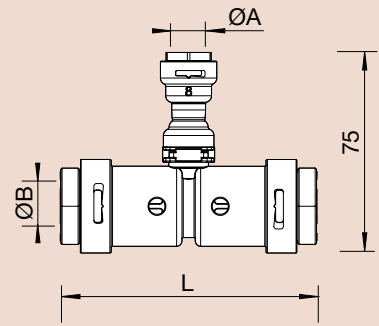
P/N	ØB	L
RRG-20M	20x2	52



Tee push in connector

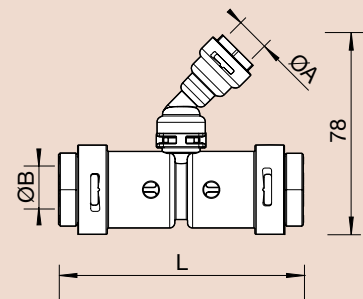
P/N	ØB	L	L1
RRT-20M	20x2	73	53





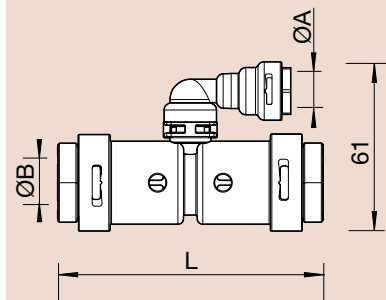
Tee reducer					
P/N	ØA	ØB	L	BAYONET COLOUR 8	BAYONET COLOUR 20
RDID08C1GM20PB1	8x1	20x2	96	black	grey

20x2 suitable for PE-X/PERT and Multilayer pipe



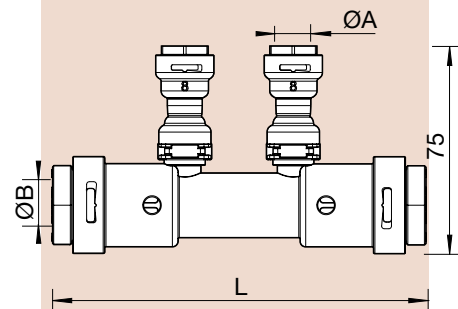
Tee reducer 45°					
P/N	ØA	ØB	L	BAYONET COLOUR 8	BAYONET COLOUR 20
RDI408C1GM20PB1	8x1	20x2	96	black	grey

20x2 suitable for PE-X/PERT and Multilayer pipe



Tee reducer 90°					
P/N	ØA	ØB	L	BAYONET COLOUR 8	BAYONET COLOUR 20
RDIG08C1GM20PB1	8x1	20x2	96	black	grey

20x2 suitable for PE-X/PERT and Multilayer pipe



Dual reducer in-line					
P/N	ØA	ØB	L	BAYONET COLOUR 8	BAYONET COLOUR 20
RDID08L2GM20PB1	8x1	20x2	135	black	grey

20x2 suitable for PE-X/PERT and Multilayer pipe

Please contact our technical-sales department for all your needs.

Dual reducer in-line 45°					
P/N	ØA	ØB	L	BAYONET COLOUR 8	BAYONET COLOUR 20
RDI408L2GM20PB1	8x1	20x2	135	black	grey

20x2 suitable for PE-X/PERT and Multilayer pipe

Dual reducer in-line 90°					
P/N	ØA	ØB	L	BAYONET COLOUR 8	BAYONET COLOUR 20
RDIG08L2GM20PB1	8x1	20x2	135	black	grey

20x2 suitable for PE-X/PERT and Multilayer pipe

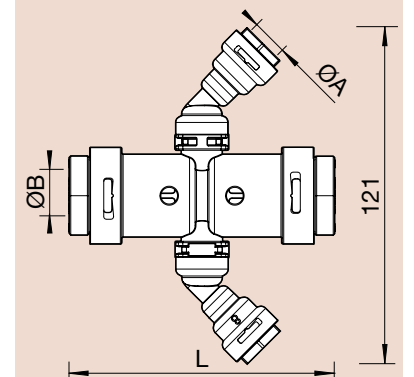
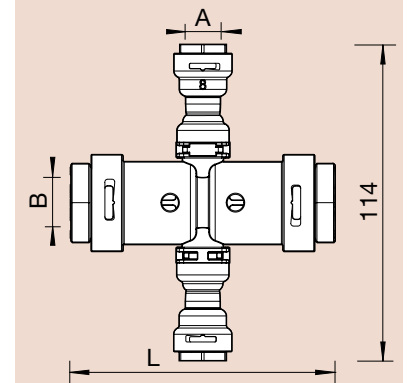
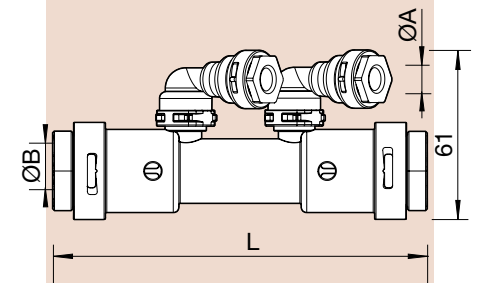
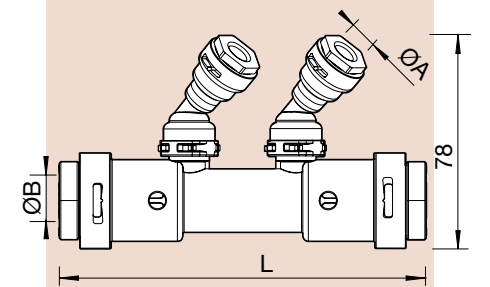
Cross reducer					
P/N	ØA	ØB	L	BAYONET COLOUR 8	BAYONET COLOUR 20
RDID08C2GM20PB1	8x1	20x2	96	black	grey

20x2 suitable for PE-X/PERT and Multilayer pipe

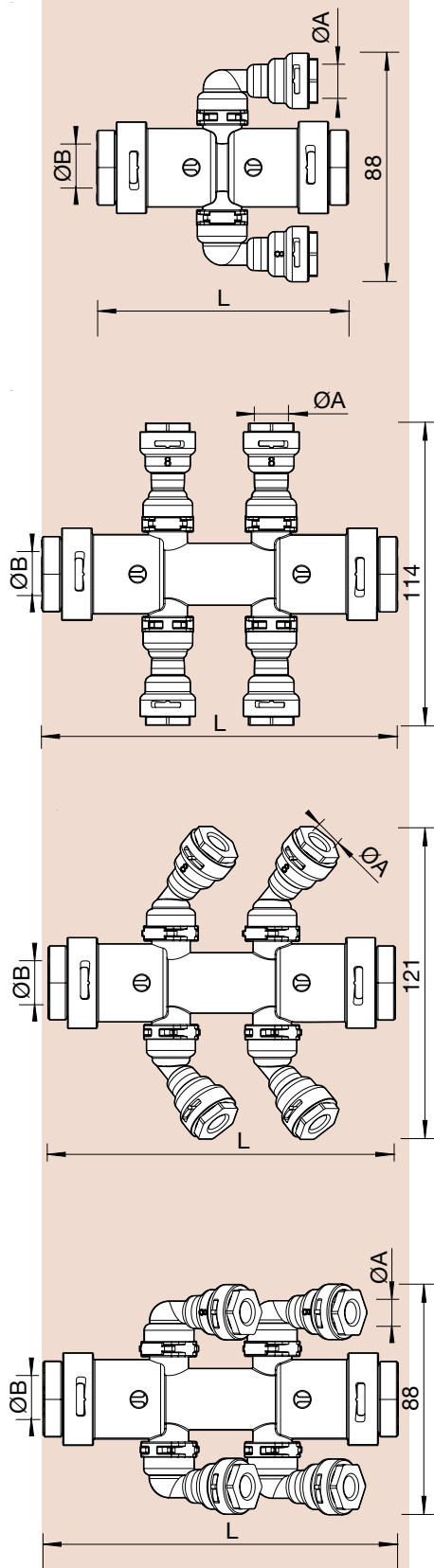
Cross reducer 45°					
P/N	ØA	ØB	L	BAYONET COLOUR 8	BAYONET COLOUR 20
RDI408C2GM20PB1	8x1	20x2	96	black	grey

20x2 suitable for PE-X/PERT and Multilayer pipe

Please contact our technical-sales department for all your needs.



TRANSPARENT ADAPTERS AND PUSH-IN CONNECTORS



Cross reducer 90°

P/N	ØA	ØB	L	BAYONET COLOUR 8	BAYONET COLOUR 20
RDIG08C2GM20PB1	8x1	20x2	96	black	grey
RDIG08C2GM20PB2	8x1	20x2	96	blue	blue
RDIG08C2GM20PB3	8x1	20x2	96	red	red

20x2 suitable for PE-X/PERT and Multilayer pipe

Dual cross reducer

P/N	ØA	ØB	L	BAYONET COLOUR 8	BAYONET COLOUR 20
RDID08C4GM20PB1	8x1	20x2	134	black	grey

20x2 suitable for PE-X/PERT and Multilayer pipe

Dual cross reducer 45°

P/N	ØA	ØB	L	BAYONET COLOUR 8	BAYONET COLOUR 20
RDI408C4GM20PB1	8x1	20x2	134	black	grey

20x2 suitable for PE-X/PERT and Multilayer pipe

Dual cross reducer 90°

P/N	ØA	ØB	L	BAYONET COLOUR 8	BAYONET COLOUR 20
RDIG08C4GM20PB1	8x1	20x2	134	black	grey
RDIG08C4GM20PB2	8x1	20x2	134	blue	blue
RDIG08C4GM20PB3	8x1	20x2	134	red	red

20x2 suitable for PE-X/PERT and Multilayer pipe

Please contact our technical-sales department for all your needs.

Straight reducer

P/N	ØA	ØB	L	BAYONET COLOUR 8	BAYONET COLOUR 20
RGPD08GM20PB	8x1	20x2	88	black	grey

20x2 suitable for PE-X/PERT and Multilayer pipe

45° reducer

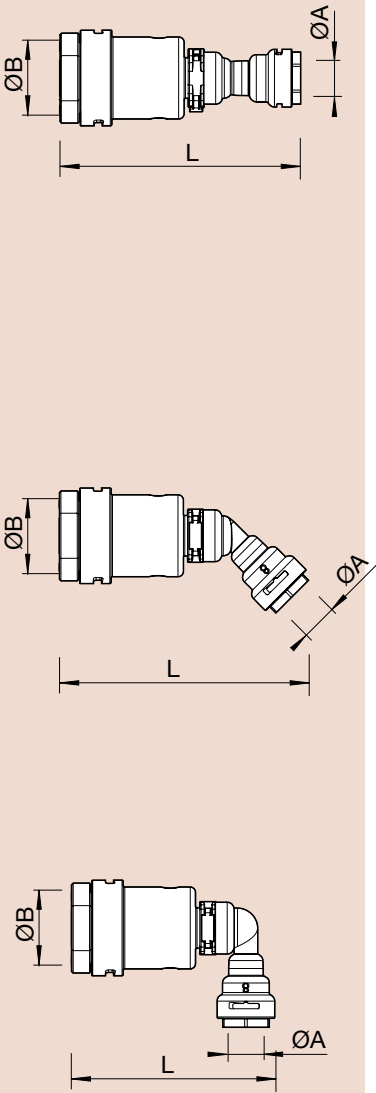
P/N	ØA	ØB	L	BAYONET COLOUR 8	BAYONET COLOUR 20
RGPD08GM20PB	8x1	20x2	91	black	grey

20x2 suitable for PE-X/PERT and Multilayer pipe

90° reducer

P/N	ØA	ØB	L	BAYONET COLOUR 8	BAYONET COLOUR 20
RGPL08GM20PB	8x1	20x2	75	black	grey

20x2 suitable for PE-X/PERT and Multilayer pipe



Please contact our technical-sales department for all your needs.



ADAPTERS AND PUSH-IN CONNECTORS (OLD RANGE)

Shape:

PA 6,6 Fg30%. Excellent resistance to temperature, to pressure and buckling. Minimal thermal expansion.

Technical Specifications:

For PE-X pipe:
black bayonet end
For Multilayer pipe:
grey bayonet end

Upon request coloured bayonet (red and blue).



ADAPTERS AND PUSH-IN CONNECTORS

TEE REDUCER TO SEAL ON OUTER DIAMETER (PE-X)

P/N	ØA	ØB	L	BAYONET COLOUR 8-10-12	BAYONET COLOUR 20
RDIS202L81NGT	8x1	20x2	98	black	black
RDIS202L101NGT	10x1	20x2	98	black	black
RDIS202L1031NGT	10x1.3	20x2	98	black	black
RDIS202L121N	12x1 (NO GT)	20x2 (NO GT)	105	black	black

To seal on inner diameter (multilayer)

P/N	ØA	ØB	L	BAYONET COLOUR 8-10-12	BAYONET COLOUR 20
RDIS202ML81NGT	8x1	20x2	98	black	grey
RDIS202MBL81NGT	8x1	20x2	98	black	blue
RDIS202MRL81NGT	8x1	20x2	98	black	red
RDIS202ML1GGT13	10x1.3	20x2	98	black	grey
RDIS202ML1BGT13	10x1.3	20x2	98	black	blue
RDIS202ML1RGT13	10x1.3	20x2	98	black	red
RDIS202M101N/SY	10x1.5	20x2	98	black	grey
RDIS202ML121N	12x1 (NO GT)	20x2	105	black	grey

Dual reducer in-line To seal on outer diameter (pe-x)

P/N	ØA	ØB	L	BAYONET COLOUR 8-10	BAYONET COLOUR 20
RDIS202L82NGT	8x1	20x2	121	black	black
RDIS202L102NGT	10x1	20x2	121	black	black
RDIS202L1032NGT	10x1.3	20x2	121	black	black

To seal on inner diameter (multilayer)

P/N	ØA	ØB	L	BAYONET COLOUR 8-10	BAYONET COLOUR 20
RDIS202ML82NGT	8x1	20x2	120	black	grey
RDIS202ML132NGT	10x1.3	20x2	120	black	grey
RDIS202MBL132GT	10x1.3	20x2	120	black	blue
RDIS202MRL132GT	10x1.3	20x2	120	black	red

To seal on inner diameter (multilayer) con terminale da 20 tappato

P/N	ØA	ØB	L	BAYONET COLOUR 8-10	BAYONET COLOUR 20
RDIS201ML132NGT	10x1.3	20x2	120	black	grey

Triple reducer in-line To seal on outer diameter (pe-x)

P/N	ØA	ØB	L	BAYONET COLOUR 8-10	BAYONET COLOUR 20
RDIS202L83NGT	8x1	20x2	139	black	black
RDIS202L83BGT	8x1	20x2	139	blue	blue
RDIS202L83RGT	8x1	20x2	139	red	red
RDIS202L103NGT	10x1	20x2	139	black	black
RDIS202L1033NGT	10x1.3	20x2	139	black	black

To seal on inner diameter (multilayer)

P/N	ØA	ØB	L	BAYONET COLOUR 8	BAYONET COLOUR 20
RDIS202ML83NGT	8x1	20x2	139	black	grey
RDIS202ML83BGT	8x1	20x2	139	black	blue
RDIS202ML83RGT	8x1	20x2	139	black	red
RDIS202MLG103GT	10x1	20x2	139	black	grey
RDIS202MLB103GT	10x1.3	20x2	139	black	blue
RDIS202MLR103GT	10x1.3	20x2	139	black	red

To seal on inner diameter (multilayer) con terminale da 20 tappato

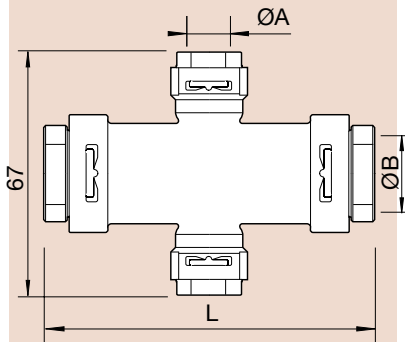
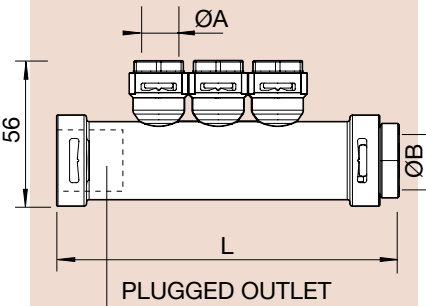
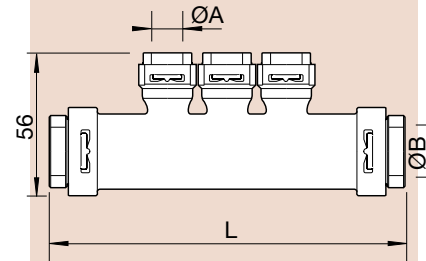
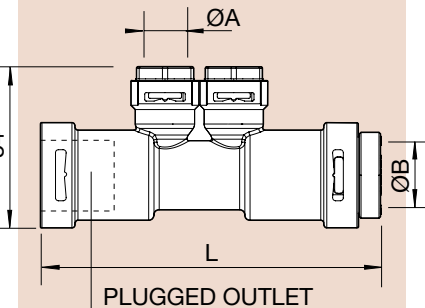
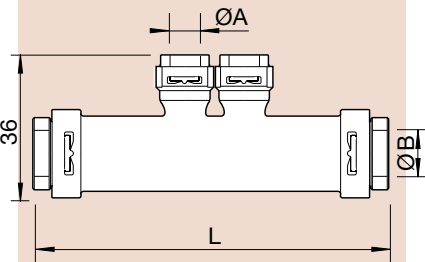
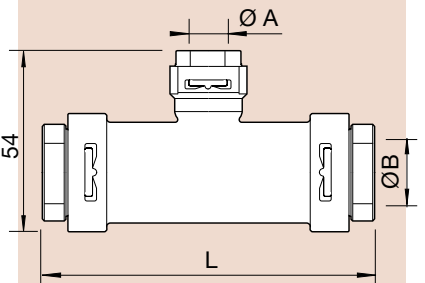
P/N	ØA	ØB	L	BAYONET COLOUR 10	BAYONET COLOUR 20
RDIS201MLG103GT	10x1.3	20x2	139	black	grey

Cross reducer To seal on outer diameter (pe-x)

P/N	ØA	ØB	L	BAYONET COLOUR 8-10	BAYONET COLOUR 20
RDIS202C82NGT	8x1	20x2	98	black	black
RDIS202C102NGT	10x1	20x2	98	black	black
RDIS202C102GT13	10x1.3	20x2	98	black	black

To seal on inner diameter (multilayer)

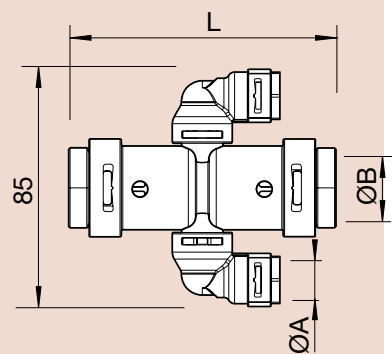
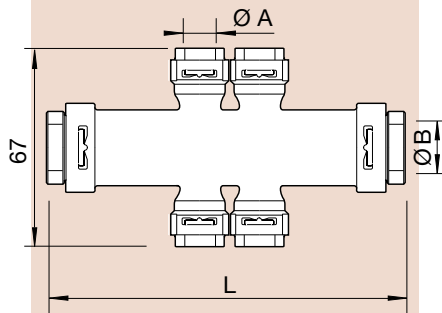
P/N	ØA	ØB	L	BAYONET COLOUR 8-10	BAYONET COLOUR 20
RDIS202MC082NGT	8x1	20x2	98	black	grey
RDIS202MBC82NGT	8x1	20x2	98	black	blue
RDIS202MRC82NGT	8x1	20x2	98	black	red
RDIS202MC102NGT	10x1	20x2	98	black	grey
RDIS202E102GT13	10x1.3	20x2,5	98	black	grey
RDIS202M102GT13	10x1.3	20x2	98	black	grey
RDIS202M102N/SY	10x1.5	20x2	98	black	grey



Please contact our technical-sales department for all your needs.

Please contact our technical-sales department for all your needs.

ADAPTERS AND PUSH-IN CONNECTORS



Dual cross reducer To seal on outer diameter (pe-x)					
P/N	ØA	ØB	L	BAYONET COLOUR 8-10	BAYONET COLOUR 20
RDIS202C84NGT	8x1	20x2	121	black	black
RDIS202C104GT13	10x1.3	20x2	121	black	black
To seal on inner diameter (multilayer)					
P/N	ØA	ØB	L	BAYONET COLOUR 8-10	BAYONET COLOUR 20
RDIS202MC84NGT	8x1	20x2	121	black	grey
RDIS202MBC84NGT	8x1	20x2	121	black	blue
RDIS202MRC84NGT	8x1	20x2	121	black	red
RDIS202M104GT13	10x1.3	20x2	121	black	grey

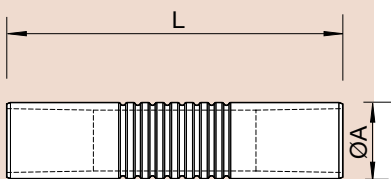
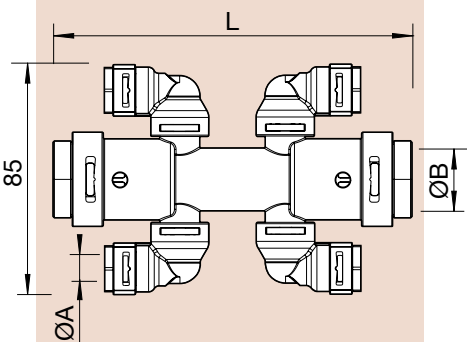
Cross reducer c/w swivel connectors To seal on outer diameter (pe-x)					
P/N	ØA	ØB	L	BAYONET COLOUR 8-10	BAYONET COLOUR 20
RDISRG08-202PB1	8	20	95	blue	blue
RDISRG08-202PB2	8	20	95	red	red
RDISRG08-202PB5	8	20	95	black	black
RDISRG10-202PB1	10	20	95	blue	blue
RDISRG10-202PB2	10	20	95	red	red
RDISRG10-202PB3	10	20	95	black	black
To seal on inner diameter (multilayer)					
P/N	ØA	ØB	L	BAYONET COLOUR 8-10	BAYONET COLOUR 20
RDISRG08M202PB1	8	20	95	blue	blue
RDISRG08M202PB2	8	20	95	red	red
RDISRG08M202PB5	8	20	95	black	grey
RDISRG10M202PB1	10	20	95	blue	blue
RDISRG10M202PB2	10	20	95	red	red
RDISRG10M202PB3	10	20	95	black	grey

Please contact our technical-sales department for all your needs.

Dual cross reducer c/w swivel connectors To seal on outer diameter (pe-x)					
P/N	ØA	ØB	L	BAYONET COLOUR 8	BAYONET COLOUR 20
RDISRG08-204PB1	8	20	133	blue	blue
RDISRG08-204PB2	8	20	133	red	red
RDISRG08-204PB3	8	20	133	black	black
RDISRG10-204PB1	10	20	133	blue	blue
RDISRG10-204PB2	10	20	133	red	red
RDISRG10-204PB3	10	20	133	black	black
To seal on inner diameter (multilayer)					
P/N	ØA	ØB	L	BAYONET COLOUR 8	BAYONET COLOUR 20
RDISRG08M204PB1	8	20	133	blue	blue
RDISRG08M204PB2	8	20	133	red	red
RDISRG08M204PB5	8	20	133	black	grey
RDISRG10M204PB1	10	20	133	blue	blue
RDISRG10M204PB2	10	20	133	red	red
RDISRG10M204PB3	10	20	133	black	grey

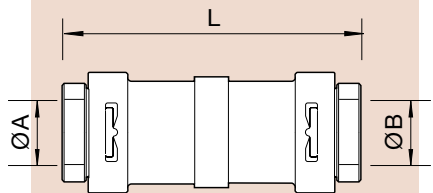
Junction for adapters		
P/N	ØA	ØB
QR20/GT*	20	88
* for PE-X and multilayer pipe		

Please contact our technical-sales department for all your needs.

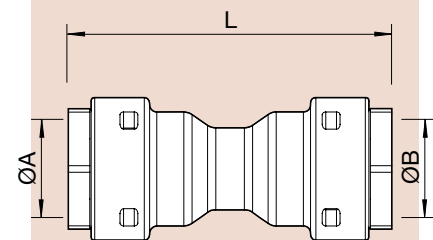


PUSH-IN CONNECTORS

Straight Connector



To seal on outer diameter (pe-x)				
P/N	ØA	ØB	L	BAYONET COLOUR
RRBD06GT	6x1	6x1	47	black
RRBD08NGT	8x1	8x1	45	black
RRBD08RGT	8x1	8x1	45	red
RRBD08BGT	8x1	8x1	45	blue
RRBD10-8GT/SY	10x1	8x1	50	black
RRBD10NGT	10x1	10x1	50	black
RRBD10NGT13	10x1.3	10x1.3	50	black
RRBD20NGT	20x2	20x2	88	black



To seal on inner diameter (multilayer)				
P/N	ØA	ØB	L	BAYONET COLOUR
RRBD20G-M	20x2	20x2	88	grey

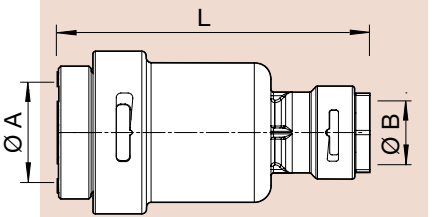
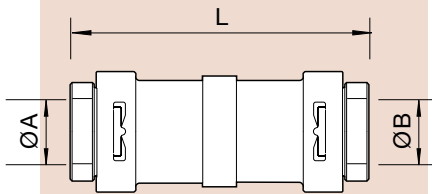
To seal on outer diameter (transparent body)				
P/N	ØA	ØB	L	BAYONET COLOUR
IRBD08NGT	8x1	8x1	45	white

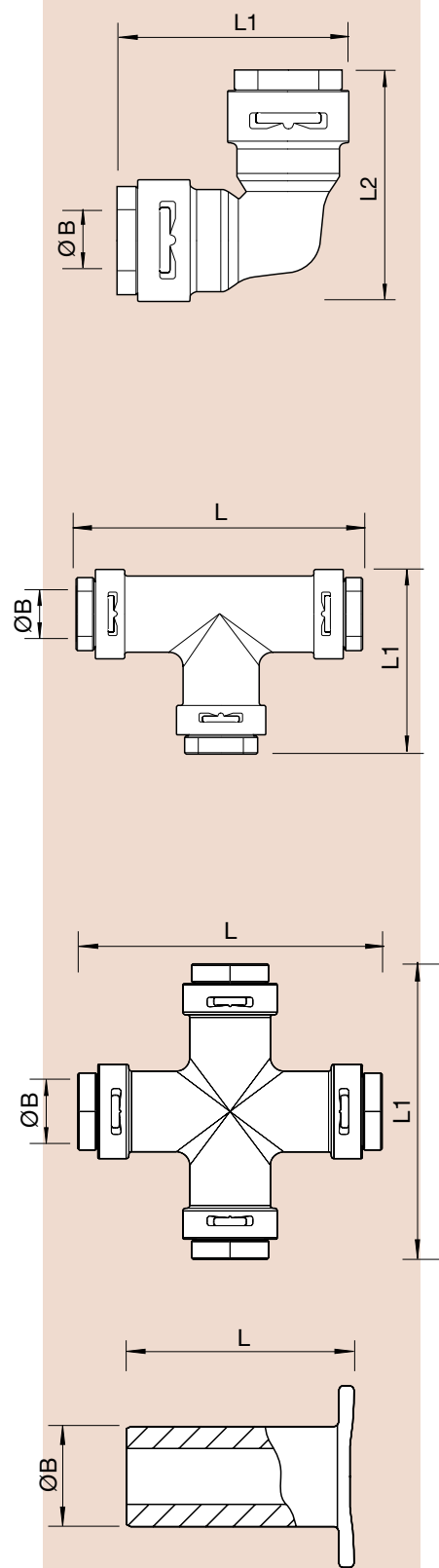
For roll bond plate (solar panels)				
P/N	ØA	ØB	L	BAYONET COLOUR
RRBD08N	8x1 (NO GT)	8x1 (NO GT)	45	black
RRBD08ENEGT/1	8x1	8x1 (NO GT)	45	black-natural

Adapter to multilayer pipe Ø int / Ø est				
P/N	ØA (multilayer)	ØB (PE-X)	L	BAYONET COLOUR
RRBD20NGT-20G-M	20x2	20x2	88	black-grey
RRBDBGT-20B-M	20x2	20x2	88	blue
RRBDRGT-20R-M	20x2	20x2	88	red

Straight reducer from pe-x to pe-x pipe Ø est / Ø est				
P/N	ØA (PE-X)	ØB (PE-X)	L	BAYONET COLOUR
RRBD20NGT-08NGT	20x2	8x1	67	black

Straight reducer from multilayer to pe-x pipe Ø int / Ø est				
P/N	ØA (multilayer)	ØB (PE-X)	L	BAYONET COLOUR
RRBD20G-M-08NGT	20x2	8x1	67	grey-black
RRBD20R-M-08RGT	20x2	8x1	67	red
RRBD20B-M-08BGT	20x2	8x1	67	blue
RRBD20G-M-103NGT	20x2	10x1.3	67	grey-black





Elbow connector

To seal on outer diameter (pe-x)					
P/N	ØB	L1	L2	BAYONET COLOUR	
RRBG06NGT	6x1	35	35	black	
RRBG08NGT	8x1	36	36	black	
RRBG10/GT/SY	10x1	42	42	black	
RRBG20NGT	20x2	74	74	black	
To seal on inner diameter (multilayer)					
P/N	ØB	L1	L2	BAYONET COLOUR	
RRBG20G-M	20x2	74	74	grey	
To seal on Ø inner / Ø outer					
P/N	ØB	L1	L2	BAYONET COLOUR	
RRBG20NGE	20x2	74	74	black-grey	
To seal on outer diameter (transparent)					
P/N	ØA	ØB	L1	L2	BAYONET COLOUR
IRBG08NGT	8x1	8x1	36	36	black

Tee connector

To seal on outer diameter (pe-x)				
P/N	ØB	L	L1	BAYONET COLOUR
RRBT06E (NOGT)	6x1	51	35	natural
RRBT08NGT	8x1	53,5	37	black
RRBT10NGT	10x2	60	41,5	black
RRBT20NGT	20x2	113	72,5	black
To seal on inner diameter (multilayer)				
P/N	ØB	L	L1	BAYONET COLOUR
RRBT20G-M	20x2	113	72,5	grey

Cross connector

To seal on outer diameter (pe-x)				
P/N	ØB	L	L1	BAYONET COLOUR
RRBC20NGT	20x2	110	113	black

Plug

P/N	ØB	L
QR6T/GT	6x1	27
QR8T/GT	8x1	35
QR10T/GT	10x1 and 10x1,3	37
QR20T/GT	20x2	45
QR20T-M25	20x2,5	45

Maintenance kit of push-in connector for pe-x pipe

P/N	Ø est. pipe
RRBD06/2-RIC	6 mm
RRBD08/2-RIC	8 mm
RRBD10/2-RIC	10 mm
RRBD12/4-RIC	12 mm
RRBD16/RIC	16 mm
RRBD17/RIC	17 mm
RRBD20/2-RIC	20 mm

Kit= nr.1 twin o'ring, nr. 1 grab-ring, nr.1 washer

Maintenance kit of push-in connector for multilayer pipe

P/N	ØA
RRB20-M15	20x2 mm

Double shut-off socket for radiant panel connection

P/N	ØB	L
RVVPU80-RRB08	8x1	70
RVVPU80-RRB10	10x1	70

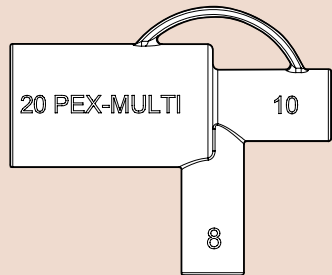
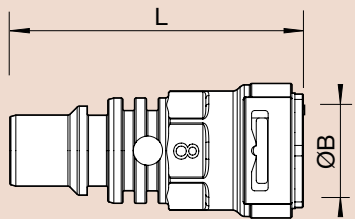
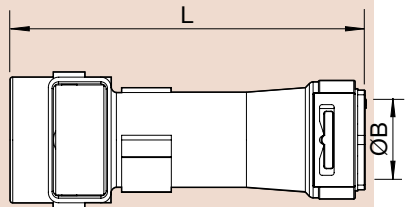
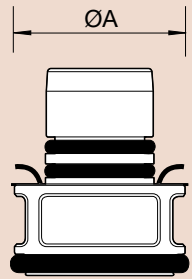
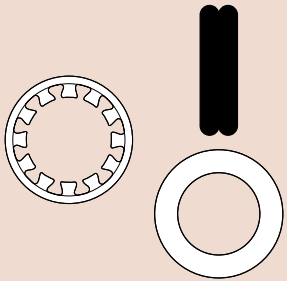
Double shut-off plug for radiant panel connection

P/N	ØB	L
RIIPU80-RRB08	8x1	52
RIIPU80-RRB10	10x1	52

Template for push-in connectors and adapters

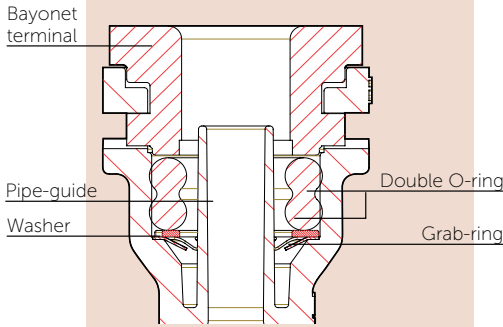
P/N
RDIMA-20-10-8

Please contact our technical-sales department for all your needs.



TECHNICAL DATASHEET

Transparent adapters and Push-in Connectors with internal tightness (PE-X & Multilayer pipe)



PERFORMANCES

Provided for the connection to the pipe, with a bayonet terminal covered by invention patent n° 05425776.1 dated 04/11/2005, with the following advantages:

Easy insertion of the pipe;

No damages of the pipe caused by the fixing system (grabring placed under the o-ring);

Guarantee of tightness granted by the twin o-ring and the pipe-guide;

Easy and simple disconnection in case of pipeline modification, thanks to the bayonet system.

TECHINCAL SPECIFICATIONS

Pipes dimensions:	ø ext 8 ± 0,1 mm - thickness 1 ± 0,05 mm
	ø ext 10 ± 0,1 mm - thickness 1 ± 0,05 mm
	ø ext 12 ± 0,1 mm - thickness 1 ± 0,05 mm
	ø ext 20 (-0,1 ÷ +0,2) mm - thickness 2 ± 0,05 mm
Transport and storage temperatures:	-20 ÷ 80 °C
Working temperature range:	min -15 °C if water is mixed to glycol
	max 80 °Cin continuous at 2 bar
	max 120 °C with peaks
Working pressure range:	min 0 bar
	max 8 bar at room temperature
Bursting pressure:	> 25 bar

MATERIALS

PA 6.6 FG30%, hydrolysis resistant
Stainless steel
EPDM Perox

Please contact our technical-sales department for all your needs.

HOOKUP - PEX/PERT PIPE

Connection of the pipe

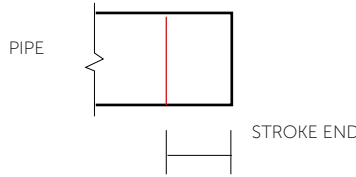


1 Cut perpendicularly the pipe by using a pipe cutter.



2 Make a chamfer by countersink tool on the outer diameter of the pipe, in order to make easier pushing the pipe into the connector and to prevent any o-ring damage during the connection.

(operation not required for pipes with øext 8, 10 and 12)



3 Mark on the pipe the connection depth required, by using a proper template:
ø ext 8 - stroke end = 22 mm
ø ext 10 - stroke end = 24 mm
ø ext 12 - stroke end = 24 mm
ø ext 20 - stroke end = 39 mm



4 Push the pipe into the connector up to the mark on the pipe diameter is on the edge of connector.

ø ext 8, 10 e 12 - connecting strength 4 ÷ 8 kg
ø ext 20 - connecting strength 6 ÷ 16 kg (depending on pipe dimensions).

WARNING

Immediately stop the installation if:

- the pipe connection is not smooth;
- the connecting strengths are higher than those previously specified;
- the pipe does not fit the connector on fully depth required. Please make always a pressure and leakage test of pipeline by compressed air at 6 bar for 24 hours and then by water at 6 bar for 3 days, once the installation is ended.

Disconnection of the pipe



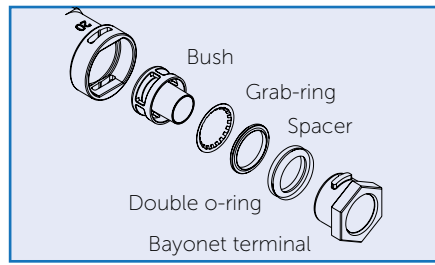
1 Rotate anti-clockwise the bayonet terminal, with a spanner.



2 Disconnect the bayonet terminal.



3 Take the grab-ring out from the pipe, by a cutting nippers.



4 Place the spare part into the fitting, following this order: bush, grab-ring, with the teeth

bent towards the body of the fitting; spacer; double O-ring, lubricated with silicone grease.

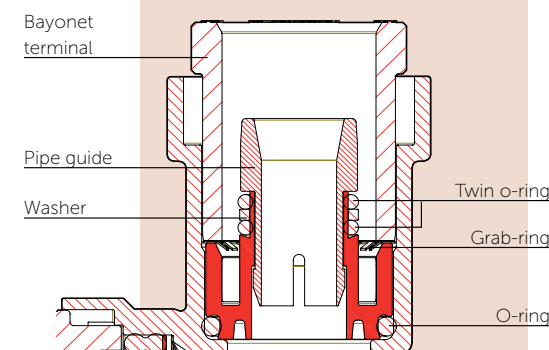
5 Connect again the bayonet terminal, by rotating clockwise it with a spanner.

WARNING

The connectors and adapters can be dismantled for any inspection just by skilled and authorized staff.

TECHNICAL DATASHEET

Adapters and Push-in Connectors with external tightness (PE-X & Multilayer pipe)



PERFORMANCES

Provided for the connection to the pipe, with a bayonet terminal covered by invention patent n° 05425776.1 dated 04/11/2005, with the following advantages:

Easy insertion of the pipe;

No damages of the pipe caused by the fixing system (grabring placed under the o-ring);

Guarantee of tightness granted by the twin o-ring and the pipe-guide;

Easy and simple disconnection in case of pipeline modification, thanks to the bayonet system.

TECHNICAL SPECIFICATIONS

Pipes dimensions: $\varnothing$ ext 20 (+0,3) mm - $\varnothing$ int 16 (-0,2 ÷ 0) mm.

($\varnothing$ to be obtained by tooling)

Transport and storage temperatures: -20 ÷ 80 °C

Working temperature range: min -15 °C water is mixed to glycol

max 80 °C in continuous at 2 bar

max 120 °C with peaks

Working pressures range: min 0 bar

max 8 bar at room temperature

Bursting pressure: > 25 bar

MATERIALS

PA 6.6 FG30%, hydrolysis resistant PA12

Stainless steel

EPDM Perox

Please contact our technical-sales department for all your needs.

HOOKUP - MULTILAYER PIPE

Connection of the pipe



1

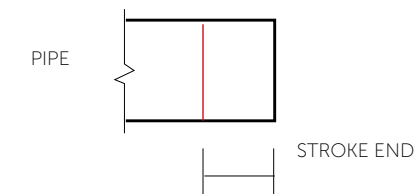
Cut perpendicularly the pipe by using a pipe cutter.



2

Make a chamfer by counter-sink tool on the outer diameter of the pipe, in order to make easier pushing the pipe into the connector and to prevent any o-ring damage during the connection.

(operation not required for pipes with $\varnothing$ ext 8, 10 and 12)



3

Mark on the pipe the connection depth required, by using a proper template:

$\varnothing$ ext 20 - stroke end = 39 mm



4

Push the pipe into the connector up to the mark on the pipe diameter is on the edge of connector.

$\varnothing$ ext 20 - connecting strength 6 ÷ 16 kg (depending on pipe dimensions).

WARNING

Immediately stop the installation if:

- the pipe connection is not smooth;
- the connecting strengths are higher than those previously specified;
- the pipe does not fit the connector on fully depth required.

Please make always a pressure and leakage test of pipeline by compressed air at 6 bar for 24 hours and then by water at 6 bar for 3 days, once the installation is ended.

Disconnection of the pipe



1

Rotate anti-clockwise the bayonet terminal, with a spanner.



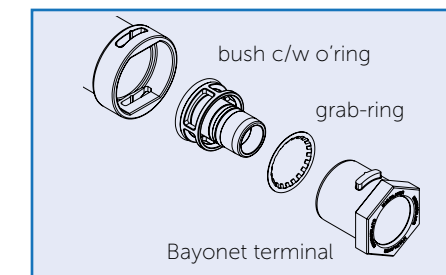
2

Disconnect the bayonet terminal.



3

Take the grab-ring out from the pipe, by a cutting nippers.



4

Place the spare part into the fitting, following this order: bush, grab-ring, with the teeth

bent towards the body of the fitting; spacer; double o-ring, lubricated with silicone grease.

5

Connect again the bayonet terminal, by rotating clockwise it with a spanner.

WARNING

The connectors and adapters can be dismantled for any inspection just by skilled and authorized staff.

TECHNICAL DATASHEET

Transparent adapters and Push-in Connectors (PE-X & Multilayer pipe)

PERFORMANCES

Provided for the connection to the pipe, with a bayonet terminal covered by invention patent n° 05425776.1 dated 04/11/2005, with the following advantages:

Easy insertion of the pipe;

No damages of the pipe caused by the fixing system (grabring placed under the o-ring);

Guarantee of tightness granted by the twin o-ring and the pipe-guide;

Easy and simple disconnection in case of pipeline modification, thanks to the bayonet system.

TECHNICAL SPECIFICATIONS

Pipes dimensions: $\varnothing$ ext 20 (+0,3) mm - $\varnothing$ int 16 (-0,2 ÷ 0) mm.
($\varnothing$ to be obtained by tooling)

Transport and storage temperatures: -20 ÷ 80 °C

Working temperature range: min -15 °C water is mixed to glycol
max 80 °C in continuous at 2 bar
max 120 °C with peaks

Working pressures range: min 0 bar
max 8 bar at room temperature

Bursting pressure: > 25 bar

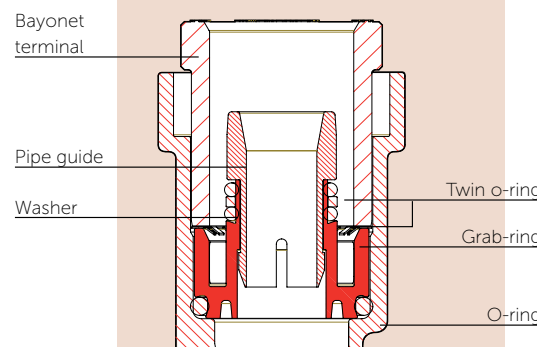
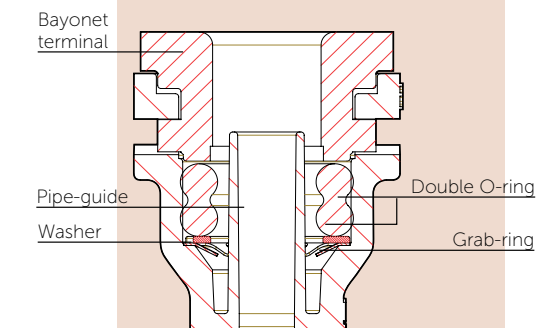
MATERIALS

PA 6.6 FG30%, hydrolysis resistant, PA12 transparent

Stainless steel

EPDM Perox

Please contact our technical-sales department for all your needs.



HOOKUP - TRASPARENT CONNECTORS

Connection of the pipes



- 1 Cut perpendicularly the pipe by using a pipe cutter.

(operation not required for pipes with $\varnothing$ ext 8, 10 and 12)



- 2 Make a chamfer by counter-sink tool on the outer diameter of the pipe, in order to make easier pushing the pipe into the connector and to prevent any o-ring damage during the connection.



- 3 Push the pipe into the connector up to end of stroke checking hole for 20x2 and transparent part for 8x1
 $\varnothing$ ext 20 - connecting strength 6 ÷ 16 kg (depending on pipe dimensions).

Disconnection of the pipes



- 1 Rotate anti-clockwise the bayonet terminal, with a spanner. (for 20x2)



- 3 Take the grab-ring out from the pipe, by a cutting nippers. (for 20x2)



- 2 Disconnect the bayonet terminal, by plastic spanner (for 8x1)



- 4 Place the spare part into the fitting, following this order: bush, grab-ring, with the teeth bent towards the body of the fitting;

WARNING

Immediately stop the installation if:

- the pipe connection is not smooth;
- the connecting strengths are higher than those previously specified;
- the pipe does not fit the connector on fully depth required.

Please make always a pressure and leakage test of pipeline by compressed air at 6 bar for 24 hours and then by water at 6 bar for 3 days, once the installation is ended.

spacer; double o-ring, lubricated with silicone grease. (for 8x1)

- 5 Connect again the bayonet terminal, by rotating clockwise it with a spanner.

WARNING

The connectors and adapters can be dismantled for any inspection just by skilled and authorized staff.

NOTE:

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