

Conex | Bänninger

>B< Press Inox

Technical Catalogue | >B< Press Inox Press Fittings



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1. General

With our >B< Press Fitting system made of durable, corrosion-resistant stainless steel, we offer another highly economical installation system with the proven >B< contour.

1.1 Quality and Certification

Our decades of experience in connection technology and the consistent application of the requirements of DIN EN ISO 9001 guarantee a consistently high standard of quality.

Our >B< Press Inox Press Fittings are approved for drinking water in accordance with various European systems such as DVGW (German Technical and Scientific Association for Gas and Water). This fundamentally confirms the reliability and longevity of the connection.

Other authorisations can be furnished on request.

1.2 Materials

>B< Press Inox Fittings are made from solution-treated molybdenum-steel 1.4404 (AISI 316L) in accordance with DIN EN 10088. Our fittings are type tested in accordance with DVGW W 534 and approved for all drinking water (DVGW type test certificate DW-8511CN0182).

>B< Press Inox pipes are available in the material 1.4404 (AISI 316L) and as a less expensive alternative in the nickel-free material 1.4521 (AISI 444). The pipes correspond in properties and dimensions with the requirements of DIN EN 10312, series 2, as well as the DVGW test specification GW 541.

1.3 Threads

All of our existing >B< Press Fittings pipe threads comply with DIN EN 10226-1 (ISO 7-1) and are accordingly 'thread sealing' (Mating conical male thread/ cylindrical female thread R/Rp).

The threads of our fittings comply with DIN EN ISO 228-1 (Mating cylindrical male and female threads G/G).

1.4 Black EPDM Sealing Elements

Black Elastomer EPDM with a hardness of 70 Shore A is used for the sealing elements (O-rings) of our >B< Press Inox Fittings. The sealing elements we use comply with the requirements of the elastomer guideline of the German Federal Environmental Agency and are tested in accordance with the DVGW test specification W270 for use with drinking water.

EPDM (ethylene propylene diene monomer) is a synthetic, peroxide-cured rubber.

EPDM has a very good aging, ozone and chemical resistance and high elasticity, and excellent cold and heat behaviour.

Maximum temperature ranges: Cold resistance: up to -50 °C
 Heat resistance: up to 150 °C
 Max. operating temperature: -35 - 110 °C

Well suited for:

Water, hot water and steam, many organic and inorganic acids and bases, silicone oils, greases and polar solvents such as alcohols and ketones.

Not suitable for:

Aromatic, aliphatic and chlorinated hydrocarbons, turpentine, gasoline, mineral oils.

1.5 Processing & Assembly

When using >B< Press Inox, the application parameters stated in Section 2 must be observed.

Additional information can also be found in our technical catalogue 1.0, 'General Installation Instructions'.

>B< Press Inox Fittings can be used with all stainless steel pipes that comply with DIN EN 10312 and DVGW test specification GW 541 and can also be combined with all of our >B< Press series bronze fittings.

The use of different materials in a drinking water system complies with the codes of practice. Stainless steel, copper, tinned inside copper and copper alloys can therefore easily be combined.

In the design and creation of pipes, the generally recognized engineering practices for the respective unions (for drinking water installations, for example, DIN EN 806 and DIN 1988) must generally be observed.

1.6 Cold Bending of Stainless Steel Pipes

The stainless steel pipes, up to 28 mm inclusive, offered by us that comply with DIN EN 10312, series 2, can be bent cold with suitable bending equipment with a minimum bend radius of 3.5 times the pipe diameter.



2. Areas of application >B< Press Inox

Application*	Flow medium Temperature	Pressure bar	Temperature °C
Drinking water installations DIN EN 806 and DIN 1988	Drinking water in accordance with the drinking water ordinance	10 16	95 25
Hot water heaters DIN EN 12828	Heating water VDI 2035-1	6	110
Local and district heating pipes DIN 4747	Heating and district heating water VDI 2035-1 or AGFW FW 510	10	110
Thermal solar systems with permanent operating temperatures ≤ 110 °C DIN EN 12975 / 12976	Water and water-glycol mixtures Mixing ratio max. 50/50 %	6	-35 to 130 180 $\leq$ 30 h/a 200 $\leq$ 10 h/a
Water-based air conditioning systems	Water and water-glycol mixtures Mixing ratio max. 50/50 %	6	-10
Rainwater harvesting systems DIN 1989	Rain water from cisterns	10	25
'Wet' fire mains DIN 14462	Fire extinguishing water	16	25
Oil-free compressed air	Compressed air classes 1 - 3 in accordance with ISO 8573-1	10	25
Industrial and process water	Treated, softened, partially and fully desalinated water **	10 16	95 25
Vacuum lines for non-medical purposes		-0,8	Room temp..
Construction site test pressure	Water with $6.5 \leq \text{pH} \leq 9.5$	16	20

* Further applications are possible - please contact our technical service

** We recommend having a free individual assessment from our technical support

1.7 Disinfection & Corrosion Protection

The stainless steel used by us has a standard molybdenum content of at least 2%, so that it has a very good resistance to chloride.

For drinking water, a chloride limit of 250 mg/l applies within the EU.
When using >B< Press Inox, the chloride content of other water (e.g. process water) should not exceed 600 mg/l.

Chemical disinfection of pipe systems with >B< Press Inox is possible without any problems. For this, the specifications of the German Drinking Water Regulations (Trinkwasser Verordnung, TrinkwV) and DVGW worksheet W 557 are to be complied with.

Stainless steel pipes are preferably disinfected with hydrogen peroxide H_2O_2 , disinfection with chlorine is also possible.

Stainless steel piping must be protected from external contact with chloride-containing building materials and other aggressive media.

In such cases, a subsequent corrosion protection in accordance with DIN EN 12068 using corrosion protection binding and/or exposure class A or B heat-shrinkable tubing should be provided. If in doubt, we recommend that you contact our technical service.

3. Fitting Construction

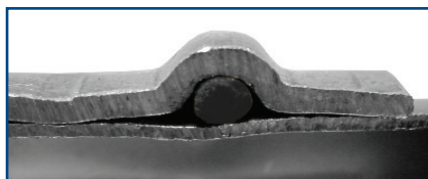
>B< Press Fittings have a pressing contour with cylindrical pipe before the O-ring that allows easy insertion of the pipe into the fitting and double pressing (B contour). The compression takes place with suitable crimping jaws.

The pressing process permanently joins the fitting to the copper pipe through a hexagonal press form before and behind the bead giving a form-fit and force-locking connection.

In parallel with this process, the bead is shaped so that the sealing element perfectly fills the interior of the beading and thus ensures the lasting tightness of the connection.

Our >B< Press Inox Fittings have a 'not pressed not sealed' characteristic. Unpressed connections are immediately detected during leak testing at pressures between 0.1 and 6 bar.

This property is achieved by a novel, patented O-ring contour. The final sealing takes place during the pressing operation by a material shift in the O-ring.



>B< Press press contour general view



Patented >B< Press O-Ring

4. Installation Instructions

It is advisable to leave the fittings in the packaging prior to final processing to protect them from contamination and to conserve the wetting of the O-rings.

Please note the space required for pressing tools and the minimum distance for the press locations (see Section 7).

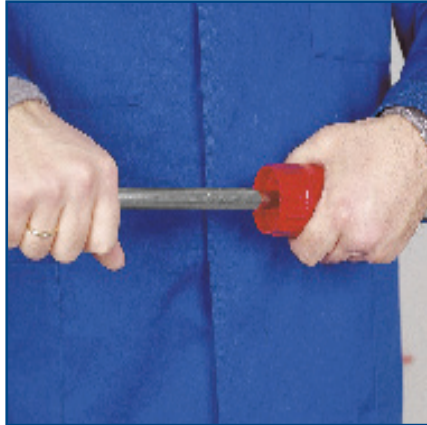
4.1 Cutting to length



Pipes are preferably cut perpendicularly to length with a pipe cutter or fine-tooth saw or a special electrical pipe saw.

An angle grinder or cutting torch must not be used for cutting to length!

4.2 Deburring and Calibrating



The pipes are then to be carefully deburred inside and out and, if necessary, calibrated.

4.3 Checking the Fittings



The press fittings should be inspected visually for integrity prior to processing. In addition, the O-ring must be checked for correct fit and integrity.

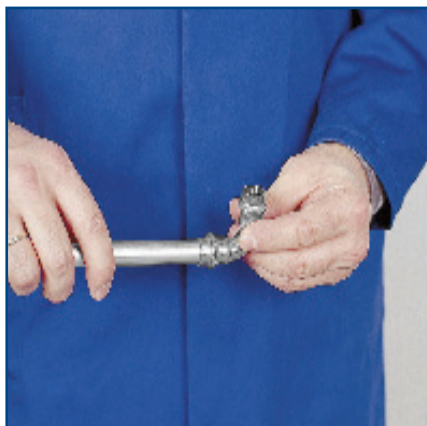
No other lubricants such as oils or greases may be used and only original IBP sealing elements are to be used.

4.4 Marking the Insertion Depth



Before assembly, the insertion depth of the fitting must be marked on the pipe (for the dimensions, see the table later). Thus, any shifts can be detected before pressing.

4.5 Connecting the Pipe and Fitting



The pipe is inserted into the fitting as far as the pipe stop in accordance with the previously applied insertion mark.

4.6 Carrying out the Pressing



Insert the appropriate size of press jaw in the crimping tool and position the jaw at right-angles on the fitting at the pressing location.

The press cycle is started by starting the pressing machine and is completed when the jaws are fully closed.

Caution! Secure pressings can be achieved only when the pressing jaws have moved completely together.

5. >B< Press Tools

Conex | Bänninger press machines and jaws are specially adapted for our >B< Press Fittings.

We therefore recommend the use of the press machines and jaws we offer. Plumbing, heating and air conditioning professionals can however use any press tool approved by IBP from other manufacturers if it has a constant pressing force of at least 32 kN up to a maximum of 36 kN.

5.1 >B< Press Machines

Klauke UAP2 Battery Hydraulic

- Lightweight, compact design, only 3.9 kg including battery
- Ergonomically designed handle, can be operated with one hand
- Constant force of at least 32 kN
- Short pressing time of approx. 6 seconds
- Automatic piston return after reaching operating pressure, motor cut-off
- Electronically controlled maintenance and fault warning
- 360° rotating pressing jaw holder

Klauke UNP2 Electro-hydraulic

- Lightweight, handy, pressing machine with mains power connection
- No LED
- Less expensive alternative to the UAP2 hydraulic press machine
- Weight only 3.5 kg
- Automatic piston retraction after reaching operating pressure
- 360° rotating pressing jaw holder

Klauke MAP1 Mini Battery Hydraulic

- Small machine, light in weight and handling
- For fittings from 12 to 28 mm
- Ergonomic handling
- Constant force of 15 kN
- Short pressing time of 6 seconds
- Automatic piston return and motor cut-off
- 360° rotating pressing jaw holder
- Weight incl. press jaw only 2.5 kg
- Approx. 65 presses /battery charge (DN20)
- Recharge time approx. 40 minutes

5.2 >B< Press Jaws

For processing >B< Press Fitting systems we offer >B< Press jaws in nominal sizes from 12 to 54 mm.

In addition to the IBP press jaws, the following can also be used:

- Rems 'V' contour
- Rothenberger 'V/SV' contour
- Viega 'SOM' & 'PT2' for 'Profipress'

The suitability of these press jaws for processing our press fittings was determined by an additional DVGW test. When you work with Conex | Bänninger press fittings you have a free choice of tools.

Should no tools be already available, we recommend the use of IBP press machines, jaws and closing elements.

5.3 Maintenance

Maintenance of press machines and jaws approved by IBP must be carried out at least once a year or at the latest after approx. 10,000 pressings by an authorised service centre.

The regular care and cleaning of the jaws can be done by the user. Press jaws must always be free of damage or deformation. The inner pressing contour of the jaw must always be kept free of dirt and debris; If necessary, the jaws can be cleaned with a brush or cleaning cloth and non-corrosive solvents such as methylated spirit.

5.4 Warranty >B< Press to Press Connections from Other Manufacturers

All of our press fitting systems can be used with machines and jaws approved by IBP from other leading providers in accordance with the following table.

In principle, IBP accepts liability as part of the IBP warranty for >B< Press products and subject to expert installation for the tightness of the connection.

The use of metal compression connectors from other manufacturers in the same installation does not affect the IBP warranty.

If press fittings from other manufacturers are used in the same installation with metal pipes, they are responsible for their products according to their specifications. The interchangeability of components within an installation must however, in accordance with German Central Association for Sanitation, Heating and Air Conditioning (ZVSHK) statements, always be guaranteed.

With any direct connection of compression fittings from other manufacturers with IBP products, in case of damage a decision is to be made according to the cause of the damage.

6. Compatibility of >B< Press with press tools from various manufacturers

Dimensions 12-54 mm	Press jaws		IBP KSP4 P77267	Rems V/V45	Rothenberger V/SV	Viega SOM PT 2	
	Profile						
>B< Press >B< Press Gas >B< Press Solar >B< Press Inox >B< Press Carbon	Presses						
	IBP Klauke	UP2EL14	✓	✓	✓	✓	✓
		UAP2/UNP2	✓	✓	✓	✓	✓
		UAP3L/UAP4L	✓	✓	✓	✓	✓
	Rems	Power-Press	✓	✓	✓	✓	✓
		Akku-Press	✓	✓	✓	✓	✓
	Rothenberger	Romax 3000	✓	✓	✓	✓	✓
		Romax Pressliner/Eco	✓	✓	✓	✓	✓
		Romax AC-Eco	✓	✓	✓	✓	✓
	Viega	Type 2	✓	✓	✓	✓	✓
		PT3-AH/EH/H	✓	✓	✓	✓	✓
		Akku-Presshandy	✓	✓	✓	✓	✓
		Pressgun 4B/E	✓	✓	✓	✓	✓
	Novopress	EFP1	✓	✓	✓	✓	no
		EFP2	✓	✓	✓	✓	✓
		ACO1/ECO1	✓	✓	✓	✓	✓
	Geberit	PWH 75	✓	✓	✓	✓	✓
Dimensions 12-28 mm	Press jaws		IBP KSP4 P77282	Rems V/V45	Rothenberger Compact V/SV		
	Profile						
>B< Press >B< Press Gas >B< Press Solar >B< Press Inox >B< Press Carbon	Presses						
	IBP Klauke	MAP1 Mini	✓				
		MAP2L	✓				
	Rems	Mini-Press ACC		✓*			
	Rothenberger	Romax Compact			✓		

! When using presses and pressing jaws from different manufacturers ALWAYS follow the manufacturer's approvals!

* >B< Press, >B< Press Carbon 12-35 mm | >B< Press Gas, >B< Press Inox, >B< Press Solar 15-35 mm

6.1 Note – Use of tools

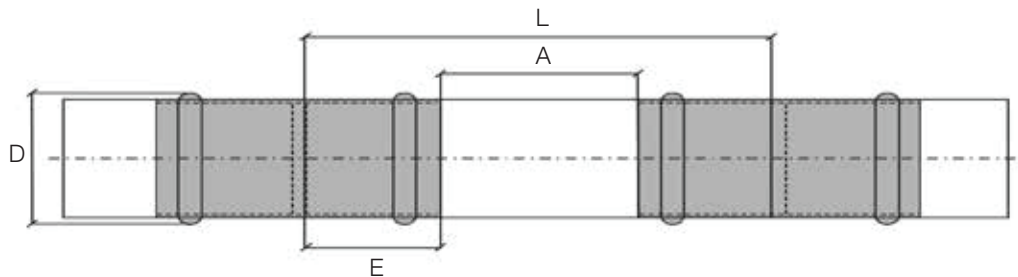
Conex | Bänninger press fitting can be processed with all current press machines. This includes, according to own and independent tests, the types listed in the table.

If other machines and press jaws are used, their suitability for a permanent tight connection must be demonstrated by an accredited test.

A constant thrust of at least 32 kN and max. 36 kN is a prerequisite to ensure that sufficient power reserves for the dimension of 54 mm are available and that high shear forces cannot reduce the lifetime of the pressing jaws or destroy them.

7. Installation instructions

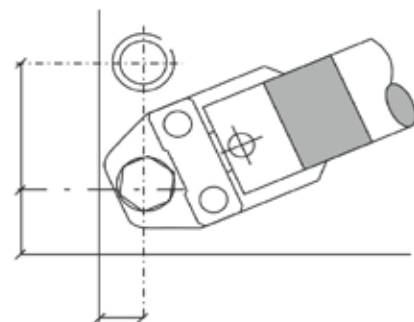
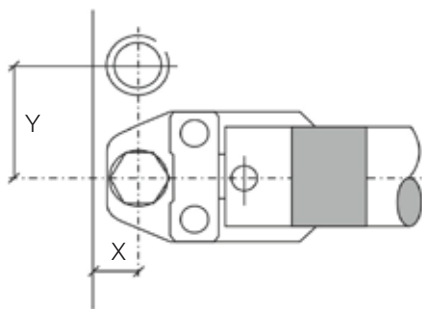
7.1 Insertion depth and minimum distances between pressings



DN	External-Ø Pipe mm	External-Ø Press bulge D - mm	Minimum distance Fitting-Fitting A - mm	Minimum pipe length L - mm	Insertion depth E - mm
12	15	22.6	10	54	22
15	18	25.6	15	59	22
20	22	31.0	20	66	23
25	28	37.0	20	68	24
32	35	44.0	25	77	26
40	42	53.4	30	102	36
50	54	65.4	35	115	40

When using the IBP press tool, a minimum distance from the centre of the press bulge to the adjacent component (e.g. walls or ceilings) of 45 mm is required.

7.2 Space required for the pressing process



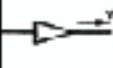
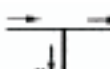
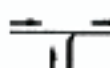
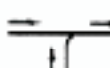
Space required for the pressing process between pipes

External-Ø Pipe mm	X mm	Y mm
15	26	53
18	26	54
22	26	56
28	33	69
35	33	73
42	75	115
54	85	120

Space between pipe and wall/floor/ceiling

External-Ø Pipe mm	X mm	Y1 mm	Y2 mm
15	31	45	73
18	31	45	74
22	31	45	76
28	38	55	80
35	38	55	85
42	75	75	115
54	85	85	140

8. Loss coefficients ('zeta values') of individual resistors

Symbol	Description		Application		Symbol	Description		Application						
			DN	H				DN	H					
	Angle or elbow Reference value in accordance with DIN EN 12543	0.70	X	X		Distributor outlet	0.5	X	X					
	Angle 90° r/d = [x/d] = 1.2 with fittings complying with DIN EN 12544	0.5	1.0	X	X		Collective inlet	1.0	X	X				
		1.0	0.95	X	X									
		2.0	0.20	X	X									
		3.0	0.15	X	X									
	Angle 90° = 90° = 60° = 45°	1.3	X	X		Recessed inlet	0.5	X						
		0.8	X	X		Inlet	1.0	X	X					
		0.4	X	X										
	Drop	0.5	X	X		Reducer	0.4	X						
	Branch, square Flow separation	1.3	X	X		Constriction B-coefficient 30° 45° 60°	0.02 0.04 0.07	X X X	X X X					
	Flow merging	0.9	X	X										
	Clearance at flow separation	0.3	X	X										
	Clearance at flow merging	0.6	X	X		Expansion B-coefficient 10° 20° 30° 45°	0.30 0.35 0.20 0.20	X X X X	X X X X					
	Overlaid flow at flow merging	3.0	X	X										
	Overlaid flow at flow separation	1.5	X	X										
	Branch, curved Flow separation	0.9	X	X		Expansion losses	1.0	X	X					
	Flow merging	0.4	X	X							Compressor	2.0	X	X
	Clearance at flow separation	0.3	X	X										
	Clearance at flow merging	0.2	X	X										
	Straight seat valve: DN 15 DN 20 DN 25 DN 32 DN 40 to DN 500	0.01 0.5 7.0 6.0 5.0	X X X X X	X X X X X		Straight seat valve: DN 15 DN 20 DN 25 to DN 50 DN 65	0.01 0.5 7.0 6.0 5.0	X X X X X	X X X X X					
	Angle seat valve: DN 15 DN 20 DN 25 to DN 50 DN 65	3.5 2.5 2.0 0.7	X X X X	X X X X		Angle seat valve: DN 15 DN 20 DN 25 to DN 50 DN 65	3.5 2.5 2.0 0.7	X X X X	X X X X					

Symbol	Description		Application		Symbol	Description		Application	
			DN	H				DN	H
	Angle valves					Return flow inhibitors			
	DN 20	7.0	X	X		DN 15 to DN 20	7.7	X	
	DN 25	4.0	X	X		DN 25 to DN 40	4.3	X	
	DN 20 to DN 50	2.0	X	X		DN 50	3.0	X	
	DN 65 to DN 300	3.5	X	X		DN 65 to DN 300	2.5	X	
	Diaphragm valves					Control valve with return flow inhibitor			
	DN 25	30.0	X	X		DN 20	6.0	X	
	DN 20	25.5	X	X		DN 25 to DN 50	5.0	X	
	DN 25 to DN 32	7.0	X	X					
	DN 40 to DN 300	6.0	X	X					
	Shutter valves					Valve tapping device			
	Piston valves					DN 25 to DN 40	5.0	X	
	Ball valves					Ball valve	2.5		X
	DN 20 to DN 25	1.0	X	X					
	DN 20 to DN 25	0.5	X	X					
	Flap valves					Heater, radiator			
	Control valve					2.5		X	
	Angle valve								
		2.0		X					
	Pressure regulator					Panel radiator			
	Fully open					3.0		X	
		30.0		X					

Applicable for all Bänninger pipe connectors and valves for drinking water and heating media (without guarantee, subject to change)

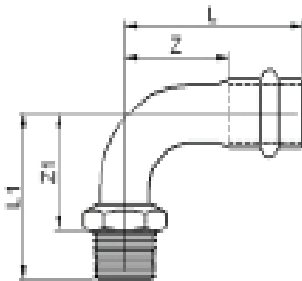
9. Types and Dimensions

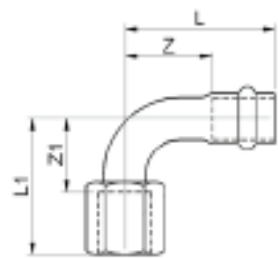
9.1 Notes concerning the naming of our >B< Press Inox Fittings

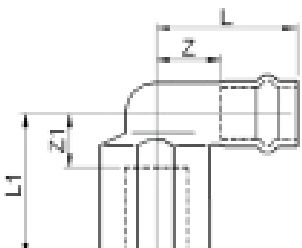
Example: **PS5130** PS 130 Inox Press Fitting
5130 Type, here Tee

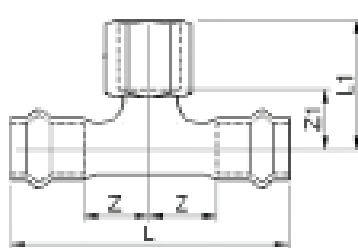
PS4090G PC 4090 G Inox Press Fitting
4090 Type, here: Elbow
G with threaded connection

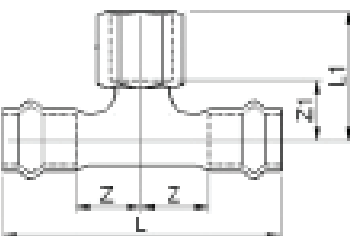


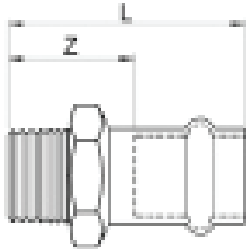
PS4001G		Bend 90° with male thread						
	Dimensions	L	L1	Z	Z1	S	Article number	
	15 x 1/2"	46	47	24	34	22	PS 4001G	0150400
	18 x 1/2"	50	52	28	39	22		0180400
	18 x 3/4"	50	54	28	39	22		0180600
	22 x 3/4"	55	56	32	41	28		0220600
	28 x 1"	66	66	42	49	36		0280800
	35 x 1 1/4"	79	78	51	59	43		0351000
	42 x 1 1/4"	100	86	64	67	50		0421200
	54 x 2"	120	107	79	83	68		0541600

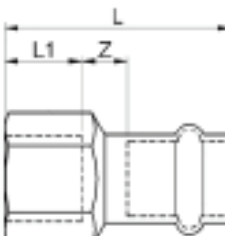
PS4002G		Bend 90° with female thread						
	Dimensions	L	L1	Z	Z1	S	Article number	
	15 x 1/2"	46	43	19	28	26	PS 4002G	0150400
	18 x 1/2"	50	46	22	31	26		0180400
	18 x 3/4"	50	48	22	32	30		0180600
	22 x 3/4"	55	53	27	36	30		0220600
	28 x 1"	66	66	36	47	38		0280800
	35 x 1 1/4"	79	79	45	57	47		0351000
	42 x 1 1/4"	100	88	53	67	55		0421200
	54 x 2"	120	107	67	81	70		0541600

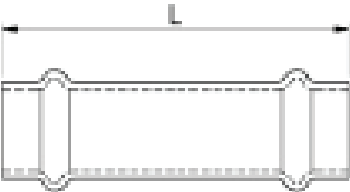
PS4090G		Bend 90° with male thread						
	Dimensions	L	L1	Z1			Article number	
	15 x 1/2"	46	30	15			PS 4090G	0150400
	18 x 1/2"	46	30	15				0180400
	22 x 1/2"	37	30	15				0220400
	22 x 3/4"	56	36	20				0220600
	28 x 1"	56	43	23				0280800
	35 x 1 1/4"	67	49	28				0351000

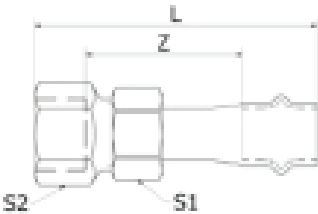
PS4130G		Bend 90° with female thread						
	Dimensions	L	L1	Z	Z1	S	Article number	
	15 x 1/2" x 15	82	34	19	19	26	PS 4130G	0150415
	18 x 1/2" x 18	82	37	19	22	26		0180418
	18 x 3/4" x 18	82	39	19	23	30		0180618
	22 x 1/2" x 22	88	39	21	24	26		0220422
	22 x 3/4" x 22	88	40	21	24	30		0220622
	28 x 1/2" x 28	96	41	24	26	26		0280428
	28 x 3/4" x 28	96	43	24	27	30		0280628
	28 x 1" x 28	88	47	24	28	38		0280828
	35 x 1/2" x 35	110	44	27	29	26		0350435
	35 x 3/4" x 35	110	46	27	28	30		0350635
	35 x 1 1/4" x 35	110	54	27	33	47		0351035

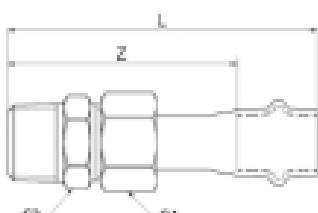
PS4130G		Tee with male thread						
	Dimensions	L	L1	Z	Z1	S	Article number	
	42 x 1/2" x 42	134	48	31	33	26	PS 4130G	0420442
	42 x 3/4" x 42	134	50	31	34	30		0420642
	42 x 1 1/2" x 42	134	59	31	38	55		0421242
	54 x 1/2" x 54	154	54	36	39	26		0540454
	54 x 3/4" x 54	154	56	36	40	30		0540654
	54 x 2" x 54	154	70	36	44	70		0541654

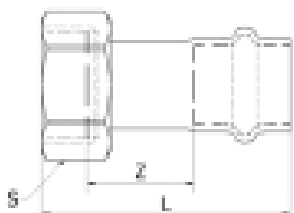
PS4243G		Straight coupler with male thread								
	Dimensions	L	Z	S				Article number		
	15 x 1/2"	54	32	22				PS	4243G	0150400
	18 x 1/2"	54	32	22						0180400
	18 x 3/4"	56	34	28						0180600
	22 x 1/2"	55	32	22						0220400
	22 x 3/4"	57	34	28						0220600
	22 x 1"	60	37	36						0220800
	28 x 3/4"	58	34	28						0280600
	28 x 1"	61	37	36						0280800
	35 x 1 1/4"	68	41	43						0351000
	42 x 1 1/2"	80	44	50						0421200
	54 x 2"	92	51	62						0541600

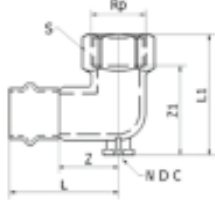
PS4270G		Coupler with female thread								
	Dimensions	L	L1	Z	S			Article number		
	15 x 1/2"	50	15	13	26			PS	4270G	0150400
	18 x 1/2"	50	15	13	26					0180400
	18 x 3/4"	52	16	14	30					0180600
	22 x 1/2"	51	15	13	26					0220400
	22 x 3/4"	53	16	14	30					0220600
	22 x 1"	57	19	15	38					0220800
	28 x 3/4"	53	16	13	30					0280600
	28 x 1"	58	19	15	38					0280800
	35 x 1 1/4"	66	21	17	47					0351000
	42 x 1 1/2"	77	21	20	55					0421200
	54 x 2"	87	26	20	70					0541600

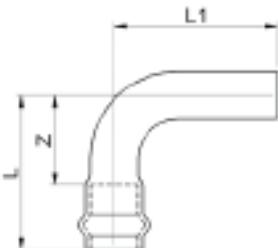
PS4275		Slip coupler						
	Dimensions	L						Article number
	15	80						PS 4275 0150000
	18	80						0180000
	22	85						0220000
	28	95						0280000
	35	105						0350000
	42	120						0420000
	54	135						0540000

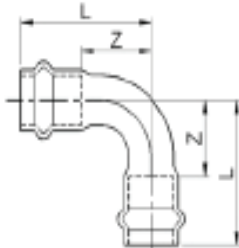
PS4330G		Adaptor with female thread						
	Dimensions	L	Z	S1	S2			Article number
	15 x 1/2"	83	46	24	26			PS 4330G 0150400
	18 x 1/2"	83	46	24	26			0180400
	22 x 3/4"	89	50	30	30			0220600
	28 x 1"	92	49	36	38			0280800
	35 x 1 1/4"	98	47	46	47			0351000
	42 x 1 1/2"	120	63	55	55			0421200
	54 x 2"	130	63	65	70			0541600

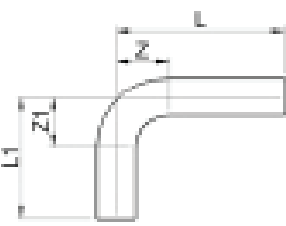
PS4331G		Adaptor with male thread						
	Dimensions	L	Z	S1	S2			Article number
	15 x 1/2"	85	63	24	22			PS 4331G 0150400
	18 x 1/2"	85	63	24	22			0180400
	22 x 3/4"	88	65	30	28			0220600
	28 x 1"	98	75	36	36			0280800
	35 x 1 1/4"	110	83	46	43			0351000
	42 x 1 1/2"	128	92	55	55			0421200
	54 x 2"	136	95	65	62			0541600

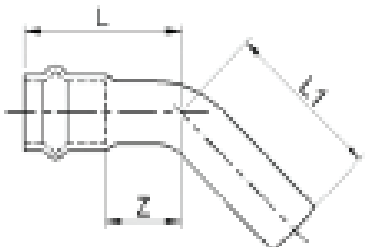
PS4355		Half fitting flat sealing for UNI free flow valves						
	Dimensions	L	Z	S				Article number
	15 x G 3/4"	59	26	30				PS 4335 0150600
	18 x G 3/4"	58	25	30				0180600
	22 x G 3/4"	65	31	30				0220600
	22 x G 1"	62	27	36				0220800
	28 x G 1"	65	29	36				0280800
	35 x G 1 1/4"	67	28	46				0351200
	42 x G 1 3/4"	86	33	58				0421400
	54 x G 2 3/8"	89	32	75				0541900

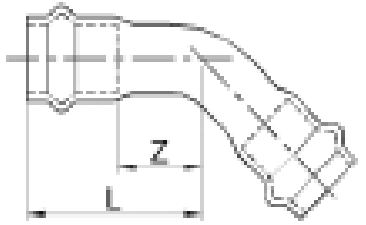
PS4471G		Wall plate elbow						
	Dimensions	L	L1	Z	Z1	S	Article number	
	15 x 1/2"	46	48	21	33	24	PS 4471G	0150400
	18 x 1/2"	46	48	21	33	24		0180400
	22 x 3/4"	57	60	30	43	32		0220600
	28 x 1"	56	68	28	49	38		0280800

PS5001		Elbow 90° I/A						
	Dimensions	L	L1	Z			Article number	
	15	46	53	24			PS 5001	0150000
	18	50	57	28				0180000
	22	55	63	32				0220000
	28	66	74	42				0280000
	35	79	85	51				0350000
	42	100	108	64				0420000
	54	120	125	79				0540000

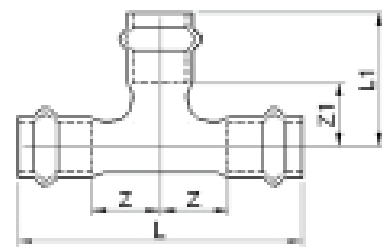
PS5002		Elbow 90°						
	Dimensions	L	Z				Article number	
	15	46	24				PS 5002	0150000
	18	50	28					0180000
	22	55	32					0220000
	28	66	42					0280000
	35	79	51					0350000
	42	100	64					0420000
	54	120	79					0540000

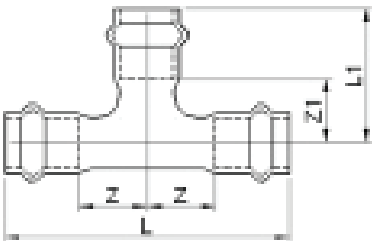
PS5030		Elbow 90 ° with external compression ends						
	Dimensions	L	L1	Z/Z1			Article number	
	15	120	70	19			PS 5030	0150000
	18	120	70	22				0180000
	22	120	70	27				0220000
	28	140	90	36				0280000
	35	140	90	45				0350000
	42	160	110	53				0420000
	54	160	110	67				0540000

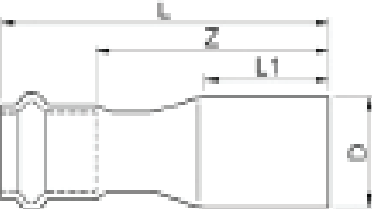
PS5040	Elbow 45° I/A							
	Dimensions	L	L1	Z				Article number
	15	35	42	13				PS 5040 0150000
	18	37	44	15				0180000
	22	40	47	17				0220000
	28	45	53	21				0280000
	35	53	59	25				0350000
	42	70	74	34				0420000
	54	80	86	39				0540000

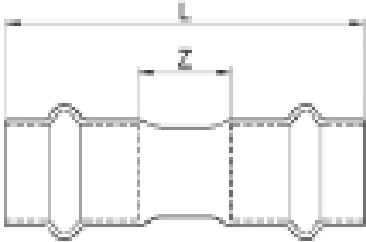
PC5041	Elbow 45°							
	Dimensions	L	Z					Article number
	15	35	13					PS 5041 0150000
	18	37	15					0180000
	22	40	17					0220000
	28	45	21					0280000
	35	53	25					0350000
	42	70	34					0420000
	54	80	39					0540000

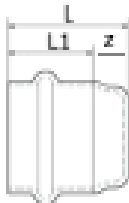
PS5087	Transfer bend							
	Dimensions	L	L1	L2	L3			Article number
	15	97	40	40	47			PS 5087 0150000
	18	121	50	50	56			0180000
	22	133	55	55	64			0220000
	28	155	60	60	78			0280000

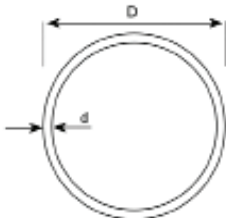
PS5130	Tee							
	Dimensions	L	Z	L1	Z1			Article number
	15	82	19	36	14			PS 5130 0151515
	18	82	19	39	17			0181818
	22	88	21	42	19			0222222
	28	96	24	46	22			0282828
	35	110	27	53	25			0353535
	42	134	31	66	30			0424242
	54	154	36	77	36			0545454

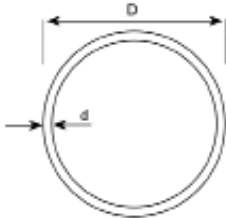
PS5130		Tee reducer							
	Dimensions	L	Z	L1	Z1			Article number	
	18 x 15 x 18	82	19	39	17			PS 5130	0181518
	22 x 15 x 22	88	21	41	19				0221522
	22 x 18 x 22	88	21	41	19				0221822
	28 x 15 x 28	96	24	54	32				0281528
	28 x 18 x 28	96	24	54	32				0281828
	28 x 22 x 28	96	24	44	21				0282228
	35 x 15 x 35	108	27	57	35				0351535
	35 x 18 x 35	108	27	57	35				0351835
	35 x 22 x 35	108	27	48	25				0352235
	35 x 28 x 35	108	27	49	25				0352835
	42 x 22 x 42	134	30	51	28				0422242
	42 x 28 x 42	134	30	52	28				0422842
	42 x 35 x 42	134	30	55	28				0423542
	54 x 22 x 54	154	36	57	34				0542254
	54 x 28 x 54	154	36	58	34				0542854
	54 x 35 x 54	154	36	61	34				0543554
	54 x 42 x 54	154	36	73	36				0544254

PS5243		Reducer							
	Dimensions	L	L1	Z	D			Article number	
	18 x 15	63	29	41	18			PS 5243	0181500
	22 x 15	70	30	48	22				0221500
	22 x 18	62	30	40	22				0221800
	28 x 15	77	31	55	28				0281500
	28 x 18	72	31	50	28				0281800
	28 x 22	66	31	43	28				0282200
	35 x 18	81	34	59	35				0351800
	35 x 22	76	34	49	35				0352200
	35 x 28	72	34	48	35				0352800
	42 x 28	92	44	68	42				0422800
	42 x 35	85	44	58	42				0423500
	54 x 28	112	48	89	54				0542800
	54 x 35	106	48	79	54				0543500
	54 x 42	108	48	65	54				0544200

PS5270	Sleeve							
	Dimensions	L	Z					Article number
	15	54	10					PS 5270 0150000
	18	54	10					0180000
	22	56	10					0220000
	28	58	10					0280000
	35	68	10					0350000
	42	88	15					0420000
	54	98	16					0540000

PS5301	Cap							
	Dimensions	L	Z					Article number
	15	34	12					PS 5301 0150000
	18	34	12					0180000
	22	37	14					0220000
	28	38	14					0280000
	35	43	16					0350000
	42	55	19					0420000
	54	65	24					0540000

PSTUBE	Stainless steel pipe 1.4404							
 Standard length 6.0 m	Dimensions							Article number
	15 x 1,0							PS TUBE- 316-15
	18 x 1,0							316-18
	22 x 1,2							316-22
	28 x 1,2							316-28
	35 x 1,5							316-35
	42 x 1,5							316-42
	54 x 1,5							316-54

PSTUBE	Stainless steel pipe 1.4521							
 Standard length 6.0 m	Dimensions							Article number
	15 x 1,0							PS TUBE- 444-15
	18 x 1,0							444-18
	22 x 1,2							444-22
	28 x 1,2							444-28
	35 x 1,5							444-35
	42 x 1,5							444-42
	54 x 1,5							444-54

Right to make amendments / Liability declaration

Please note that all illustrations, measurements and instructions in this document are not binding and we reserve the right to make changes of any kind whatsoever, also without announcing them. Our technical advice is based on the greatest possible experience and the current state of knowledge. Nevertheless, we cannot provide any guarantee.

