



PRESS FITTINGS V-profile 12-54



Product information



Accepterad
monteringsanvisning
2021:1

CONTENTS

Press fittings V-profile 12–54

Information on Altech press fittings, V profile.....	3
Press fittings, copper	5
Press fittings, chrome plated copper	10
Press fittings, gas, copper	13
Press fittings, galvanized steel.....	16
Press fittings, acid-proof stainless steel – AISI 316/SIS 2348.....	20
O-rings.....	23
Technical description	24
Considerations before installation.....	25
Considerations before installation.....	25
Chemical compatibility guide.....	26

Information on Altech press fittings, V profile

Altech press fittings are used for drinking water, heating and gas installations. Available in the following materials: copper, chrome-plated copper, galvanized steel and acid-proof stainless steel.

Copper/copper alloys:

For drinking water and heating and for oil-free compressed air with O-ring, standard, EPDM (black). Press fittings for gas have an O-ring, HNBR (yellow).

Chrome plated copper:

Perfect for visible piping in bathrooms, for example, with all the properties of copper. With O-ring, standard, EPDM (black).

Galvanized steel:

This material is suitable for heating systems and oilfree compressed air systems with O-rings, standard, EPDM (black).

Acid-proof stainless AISI 316/SIS 2348:

Outstanding corrosion resistance properties. This material is highly suitable for drinking water installations and in industrial applications.

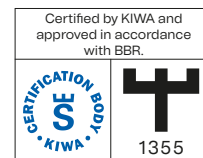


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Manufacturer's declaration:

This product has been manufactured in conformance with the type approval with the decision for production control and the documents on which the type approval was based.

Altech press fittings
Type approval No.: 1053/1054/1055



Pressing indicator

The pressing indicator ensures that it can be easily seen if a fitting has been pressed.

Leak indicator

The O-ring is thinner at 3 points; these are deformations that indicate leaks when the fitting has not been pressed. On pressure testing, at a pressure of less than 3 bar the leak indicator shows if a fitting is not pressed.



Symbols for leak indicator.



Symbol for leak indicator, galvanized steel.



Symbol for leak indicator, copper and stainless steel.



Altech V-profile press fittings must be pressed using V-profile press jaws or collars. Follow the recommendation from the manufacturer of the pressing tool regarding service and calibration. A service or calibration certificate must be available for inspection on request. Note that the specification for the press tool differs between the different manufacturers. The machine must have a minimum pressing force of 19 kN for dimensions of 12–28 mm for copper and 12–22 mm for stainless steel and galvanized steel. The pressing force must be at least 32 kN for dimensions above these. Support sleeves shall not be used on hard or semi-hard copper pipe fabricated in accordance with EN 1057. Support sleeves must be used on annealed (soft) and thin-walled copper pipe fabricated in accordance with EN 1057.

Press fittings, copper

- Wide range of press fittings in dimensions of 12–54 mm.
- The press fitting O-ring is equipped with a leak and pressing indicator, see page 4.
- Kiwa type approval No.: 1053.

Dimensions	12, 15, 18, 22, 28, 35, 42, 54	Press profile	12–35 mm: V jaw 42–54 mm: press collar recommended
Material	Copper/copper alloys	Max. temperature, continuous/short-term	Drinking water: 95/110 °C Heating water: 110/110 °C Compressed air: 30/60 °C Refrigerant: -20/-30 °C
O-ring	EPDM (black)	Max. pressure, continuous/short-term	Drinking water/compressed air/refrigerant: 10/16 bar Heating water: 6/16 bar



90° bend 1 collar		
Item No.	Dimension	
1770018	12	
1770019	15	
1770020	18	
1770021	22	
1770022	28	
1770024	35	
1770025	42	
1770026	54	

90° bend 2 collar		
Item No.	Dimension	
1770000	12	
1770001	15	
1770002	18	
1770003	22	
1770004	28	
1770005	35	
1770006	42	
1770008	54	

45° bend 1 collar		
Item No.	Dimension	
1770027	12	
1770028	15	
1770029	18	
1770030	22	
1770032	28	
1770033	35	
1770034	42	
1770035	54	

45° bend 2 collar		
Item No.	Dimension	
1770009	12	
1770010	15	
1770011	18	
1770012	22	
1770013	28	
1770014	35	
1770016	42	
1770017	54	

S-bend 1 collar		
Item No.	Dimension	
1770036	12	
1770037	15	
1770039	22	

S-bend 2 collar		
Item No.	Dimension	
1770272*	12	
1770273	15	
1770275	22	

Straight slip coupling 2 collar		
Item No.	Dimension	
1770077	12	
1770078	15	
1770079	18	
1770081	22	
1770082	28	
1770083	35	
1770084	42	
1770085	54	

Reducer 1 collar		
Item No.	Dimension	
1770103	15 x 12	
1770104	18 x 12	
1770105	18 x 15	
1770107	22 x 15	
1770108	22 x 18	
1770109	28 x 15	
1770110	28 x 18	
1770111	28 x 22	
1770112	35 x 22	
1770113	35 x 28	
1770115	42 x 22	
1770116	42 x 28	
1770117	42 x 35	
1770118	54 x 35	
1770119	54 x 42	

* = Beställningsvara

Reducer 2 collar		
Item No.	Dimension	
1770094	15 x 12	
1770095	18 x 15	
1770096	22 x 15	
1770097	22 x 18	
1770099	28 x 22	
1770100	35 x 28	
1770101	42 x 35	
1770102	54 x 42	

Double collar		
Item No.	Dimension	
1770068	12	
1770069	15	
1770070	18	
1770071	22	
1770073	28	
1770074	35	
1770075	42	
1770076	54	

End cap		
Item No.	Dimension	
1770359	12	
1770276	15	
1770277	18	
1770278	22	
1770279	28	
1770280	35	
1770281	42	
1770282	54	

Tee		
Item No.	Dimension	
1185425	15 x 15 x 15	
1185426	22 x 15 x 22	
1185427	22 x 22 x 22	

Tee		
Item No.	Dimension	
1770124	12	
1770125	15	
1770126	18	
1770127	22	
1770128	28	
1770129	35	
1770131	42	
1770132	54	

Reducing tee		
Item No.	Dimension	
1770133	12 x 15 x 12	
1770134	15 x 12 x 12	
1770135	15 x 12 x 15	
1770137	15 x 18 x 15	
1770138	15 x 22 x 15	
1770140	18 x 12 x 18	
1770141	18 x 15 x 15	
1770142	18 x 15 x 18	
1770143	18 x 18 x 15	
1770144	18 x 22 x 18	
1770145	22 x 12 x 22	
1770146	22 x 15 x 15	
1770147	22 x 15 x 18	
1770149	22 x 15 x 22	
1770152	22 x 18 x 22	
1770153	22 x 22 x 15	
1770156	22 x 28 x 22	
1770157	28 x 15 x 22	
1770158	28 x 15 x 28	
1770160	28 x 18 x 28	
1770161	28 x 22 x 22	
1770162	28 x 22 x 28	
1770164	28 x 28 x 22	
1770165	35 x 15 x 35	
1770166	35 x 18 x 35	
1770167	35 x 22 x 28	
1770168	35 x 22 x 35	
1770169	35 x 28 x 28	
1770170	35 x 28 x 35	
1770172	42 x 22 x 42	
1770173	42 x 28 x 42	
1770174	42 x 35 x 42	
1770175	54 x 22 x 54	
1770176	54 x 28 x 54	
1770177	54 x 35 x 54	
1770178	54 x 42 x 54	

Adapter collar male thread		
Item No.	Dimension	
1770222	R10 x 12	
1770223	R10 x 15	
1770212	R15 x 12	
1770214	R15 x 15	
1770215	R15 x 18	
1770216	R15 x 22	
1770217	R20 x 15	
1770218	R20 x 18	
1770219	R20 x 22	
1770220	R20 x 28	
1770224	R25 x 22	
1770225	R25 x 28	
1770226	R25 x 35	
1770230	R32 x 28	
1770231	R32 x 35	
1770228	R40 x 42	
1770233	R50 x 54	

Reducer 2 collar		
Item No.	Dimension	
1771113	12 x 10	
1752612	15 x 10	
1770121	15 x 16	

90° elbow 1 collar female thread		
Item No.	Dimension	
1770041	G15 x 15	
1770046	G20 x 22	
1770051	G25 x 28	

90° elbow 1 collar male thread		
Item No.	Dimension	
1770061	R10 x 12	
1770057	R15 x 15	
1770060	R20 x 22	
1770063	R25 x 28	
1770066*	R32 x 35	

Tee with female thread branch		
Item No.	Dimension	
1770181	15 x G10 x 15	
1770180	15 x G15 x 15	
1770183	22 x G15 x 22	
1770184	22 x G20 x 22	
1770185	28 x G15 x 28	
1770186	28 x G20 x 28	
1770188	35 x G15 x 35	
1770190	42 x G15 x 42	
1770191	54 x G15 x 54	

Adapter nipple male thread		
Item No.	Dimension	
1770234	R15 x 12	
1770235	R15 x 15	
1770238	R20 x 18	
1770240	R20 x 22	
1770241	R25 x 28	
1770242	R32 x 35	
1770243	R40 x 42	
1771118	R50 x 54	

Adapter nipple female thread		
Item No.	Dimension	
1770420	G15 x 12	
1770421	G15 x 15	
1770422	G15 x 22	
1770423	G20 x 18	
1770424	G20 x 22	
1770425	G25 x 28	
1770426	G32 x 35	
1770427	G40 x 42	
1770428	G50 x 54	

Union Male thread 1 collar		
Item No.	Dimension	
1770249	R15 x 15	
1770255	R20 x 22	
1770257	R25 x 22	
1770258	R25 x 28	
1770259	R32 x 35	
1770260	R40 x 42	
1770261	R50 x 54	

* = Beställningsvara

Collar female thread		
Item No.	Dimension	
1770201	G10 x 12	
1770202	G10 x 15	
1770192	G15 x 12	
1770193	G15 x 15	
1770195	G15 x 22	
1770196	G20 x 15	
1770198	G20 x 18	
1770199	G20 x 22	
1770200	G20 x 28	
1770203	G25 x 22	
1770204	G25 x 28	
1770206	G25 x 35	
1770209	G32 x 35	
1770210	G32 x 42	
1770207	G40 x 42	
1770211	G50 x 54	

Altech press O-ring		
Viton (green)	EPDM (black)	Viton (red)
		
For solar heating systems, steam and hot water 0-160 °C (peaks at max. 200 °C).	For drinking water, heating and oil-free compressed air (less than 5 mg/m).	For compressed air with residual oil (more than 5 mg/m) and specific petroleum fluids.
See page 23 for further information.		

Press flange copper alloys/iron		
Item No.	Dimension	
1753421	28xDN25	
1753422	35xDN32	
1753423	42xDN40	
1753424	54xDN50	

Flat face coupling with union nut		
Item No.	Dimension	
1770264	G20 x 15	
1855512	G20 x 22	
1855513	G25 x 22	

Wall plate female thread 1 collar		
Item No.	Dimension	
1770268	G15 x 15	

Press fittings, chrome plated copper

- Wide range of press fittings in dimensions of 12–22 mm.
- The press fitting O-ring is equipped with a leak and pressing indicator, see page 4.
- Kiwa type approval No.: 1053.

Dimensions	12, 15, 18, 22	Pressprofil	12–22 mm V-back
Material	Chrome plated copper	Max. temperature, continuous/short-term	Drinking water: 95/110 °C Heating water: 110/110 °C Compressed air: 30/60 °C Refrigerant: -20/-30 °C
O-ring	EPDM (black)	Max. pressure, continuous/short-term	Drinking water/compressed air/refrigerant: 10/16 bar Heating water: 6/16 bar



**Chrome plated copper pipe in press dimensions
in accordance with EN 1057**



Item No.	Dimension	Length
8564684	10 x 0,8	2 m
8564680	12 x 1,0	2 m
8564681	15 x 1,0	2 m
8564686	18 x 1,0	2 m
8564688	22 x 1,0	2 m
8564685	10 x 0,8	2,75 m
8564682	12 x 1,0	2,75 m
8564683	15 x 1,0	2,75 m
8564687	18 x 1,0	2,75 m
8564689	22 x 1,0	2,75 m

90° bend 1 collar

Item No.	Dimension	
1769774	12	
1769775	15	
1769778	22	

90° bend 2 collar

Item No.	Dimension	
1769779	12	
1769780	15	
1769782	22	

45° bend 1 collar

Item No.	Dimension	
1769765	12	
1769766	15	
1769768	22	

45° bend 2 collar

Item No.	Dimension	
1769770	12	
1769771	15	

S-bend 1 collar

Item No.	Dimension	
1769783	12	
1769784	15	

S-bend 2 collar

Item No.	Dimension	
1769788	12	
1769789	15	

Tee

Item No.	Dimension	
1769828	12	
1769829	15	

Reducing tee

Item No.	Dimension	
1769832	12 x 15 x 12	
1769833	15 x 12 x 12	
1769834	15 x 12 x 15	

Adapter collar male thread

Item No.	Dimension	
1769699	R10 x 12	
1769700	R10 x 15	
1769701	R15 x 12	
1769703	R15 x 15	

Straight slip coupling 2 collar		
Item No.	Dimension	
1771115	12	
1771116	15	

Collar female thread		
Item No.	Dimension	
1769682	G10 x 12	
1769683	G10 x 15	
1769684	G15 x 12	
1769685	G15 x 15	
1769688	G15 x 22	

Adapter nipple male thread		
Item No.	Dimension	
1769692	R15 x 12	

Reducer 1 collar		
Item No.	Dimension	
1769650	15 x 12	
1769654	22 x 15	

Reducer 2 collar		
Item No.	Dimension	
1769656	15 x 12	
1769658	22 x 15	

Double collar		
Item No.	Dimension	
1769646	12	
1769647	15	

Flat face coupling with union nut		
Item No.	Dimension	
1771114	G15 x 12	
1769679	G15 x 15	
1769680	G20 x 15	

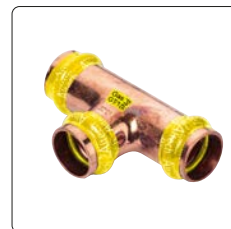
Altech press O-ring			
Viton (green)	EPDM (black)	Viton (red)	
			
For solar heating systems, steam and hot water 0-160 °C (peaks at max. 200 °C).	For drinking water, heating and oil-free compressed air (less than 5 mg/m).	For compressed air with residual oil (more than 5 mg/m) and specific petroleum fluids.	

See page 23 for further information.

Press fittings, gas, copper

- Wide range of press fittings in dimensions of 12–54 mm, for gas installations.
- Equipped with pressing indicator, see page 4.
- Manufactured in compliance with DVGW VP 614.

Dimensions	15, 18, 22, 28, 35, 42, 54	Press profile	12–35 mm M jaw 42–54 mm: press collar recommended
Material	Copper/copper alloys	Operating temperature	-20 °C – +70 °C
O-ring	HNBR (yellow)	Max. operating pressure	5 bar



90° bend 1 collar		
Item No.	Dimension	
1760124*	12	
1760125	15	
1760127	22	
1760128	28	
1760129	35	
1760130	42	
1760132	54	

90° bend 2 collar		
Item No.	Dimension	
1760116	12	
1760117	15	
1760119	22	
1760120	28	
1760121	35	
1760122	42	
1760123	54	

45° bend 1 collar		
Item No.	Dimension	
1760141	12	
1760142	15	
1760144	22	
1760145	28	
1760146	35	
1760147	42	
1760148	54	

45° bend 2 collar		
Item No.	Dimension	
1760133	12	
1760134	15	
1760136	22	
1760137	28	
1760138	35	
1760139	42	
1760140	54	

Reducer 1 collar		
Item No.	Dimension	
1760098	15 x 12	
1760100	22 x 15	
1760102	28 x 15	
1760104	28 x 22	
1760105	35 x 22	
1760106	35 x 28	
1760110*	42 x 22	
1760111	42 x 28	
1760112*	42 x 35	
1760113*	54 x 35	
1760114*	54 x 42	

Reducer 2 collar		
Item No.	Dimension	
1760091	15 x 12	
1760092	22 x 15	
1760094	28 x 22	
1760095	35 x 28	
1760096*	42 x 35	
1760097*	54 x 42	

Double collar		
Item No.	Dimension	
1760224	12	
1760225	15	
1760227	22	
1760228	28	
1760229	35	
1760231	42	
1760232	54	

Straight slip coupling 2 collar		
Item No.	Dimension	
1760083	12	
1760084	15	
1760086	22	
1760087	28	
1760088	35	
1760089*	42	
1760090*	54	

* = Beställningsvara

Reducing tee		
Item No.	Dimension	
1760166*	22 x 15 x 15	
1760167	22 x 15 x 22	
1760169	22 x 22 x 15	
1760170	28 x 15 x 28	
1760174	28 x 22 x 28	
1760175*	28 x 28 x 22	
1760176	35 x 22 x 35	
1760177	35 x 28 x 35	
1760178*	42 x 28 x 42	
1760179*	42 x 35 x 42	
1760180*	54 x 42 x 54	

Tee		
Item No.	Dimension	
1760150*	12	
1760151	15	
1760153	22	
1760154	28	
1760155	35	
1760156*	42	
1760157	54	

Collar female thread		
Item No.	Dimension	
1760202	G15 x 15	
1760204	G15 x 22	
1760208	G20 x 22	
1760211	G25 x 28	
1760213	G32 x 35	
1760215	G40 x 42	
1760216	G50 x 54	

Adapter collar male thread		
Item No.	Dimension	
1760183	R15 x 15	
1760188	R20 x 22	
1760190	R25 x 22	
1760191	R25 x 28	
1760194	R32 x 35	
1760197	R40 x 42	
1760199	R50 x 54	

* = Beställningsvara

End cap		
Item No.	Dimension	
1760217	15	
1760219	22	
1760220	28	
1760221	35	
1760222*	42	
1760223*	54	

Altech Press O-ring	
HNBR (yellow)	
	
HNBR (yellow) - for gas and liquefied petroleum gas (LPG). Manufactured in compliance with EN 549. Temperature: between -20 and 70 °C.	
See page 23 for further information.	

Press fittings, galvanized steel

- Wide range of press fittings in dimensions of 12–54 mm.
- The press fitting O-ring is equipped with a leak and pressing indicator, see page 4.
- Kiwa type approval No.: 1055.

Dimensions	12, 15, 18, 22, 28, 35, 42, 54	Press profile	12–35 mm V-back 42–108 mm press collar
Material	Galvanized steel	Max. temperature, continuous/short-term	Heating water: 110/110 °C Compressed air: 30/60 °C Refrigerant: -20/-30 °C
O-ring	EPDM (black)	Max. pressure, continuous/short-term	Compressed air/refrigerant: 10/16 bar Heating water: 6/16 bar



Galvanized pipe in press fitting dimensions in accordance with EN 10305-3

Item No.	Dimension	Längd
1554557	12 x 1,2	3 m
1554558	15 x 1,2	3 m
1554559	18 x 1,2	3 m
1554560	22 x 1,5	3 m
1554561	28 x 1,5	3 m
1554562	35 x 1,5	3 m
1554563	42 x 1,5	3 m
1554564	54 x 1,5	3 m
1553392	12 x 1,2	6 m
1553393	15 x 1,2	6 m
1553394	18 x 1,2	6 m
1553395	22 x 1,5	6 m
1553396	28 x 1,5	6 m
1553397	35 x 1,5	6 m
1553398	42 x 1,5	6 m
1553399	54 x 1,5	6 m



90° bend 1 collar

Item No.	Dimension
1554396	12
1554112	15
1554113	18
1554114	22
1554115	28
1554116	35
1554117	42
1554118	54



90° bend 2 collar

Item No.	Dimension
1554397	12
1554081	15
1554082	18
1554083	22
1554084	28
1554085	35
1554086	42
1554087	54



45° bend 1 collar

Item No.	Dimension
1554394	12
1554105	15
1554106	18
1554107	22
1554108	28
1554109	35
1554110	42
1554111	54



45° bend 2 collar

Item No.	Dimension
1554395	12
1554088	15
1554089	18
1554090	22
1554091	28
1554092	35
1554093	42
1554094	54



S bend short

Item No.	Dimension
1554411	12
1554299	15
1554300	18
1554301	22
1554302	28



S bend long

Item No.	Dimension
1554412	12
1554303	15
1554304	18
1554305	22
1554306	28



Reducer 1 collar

Item No.	Dimension
1554392	15 x 12
1554393	22 x 12
1554166	18 x 15
1554167	22 x 15
1554168	22 x 18
1554169	28 x 15
1554170	28 x 18
1554171	28 x 22
1554173	35 x 22
1554174	35 x 28
1554175	42 x 28
1554176	42 x 35
1554177	54 x 22
1554178	54 x 28
1554179	54 x 35
1554180	54 x 42



Double collar		
Item No.	Dimension	
1554390	12	
1554145	15	
1554146	18	
1554147	22	
1554148	28	
1554149	35	
1554150	42	
1554151	54	

Straight slip coupling		
Item No.	Dimension	
1554391	12	
1554152	15	
1554153	18	
1554154	22	
1554155	28	
1554156	35	
1554157	42	
1554158	54	

Tee		
Item No.	Dimension	
1554399	12	
1554181	15	
1554182	18	
1554183	22	
1554184	28	
1554185	35	
1554186	42	
1554187	54	

Reducing tee		
Item No.	Dimension	
1554400	12 x 15 x 12	
1554401	15 x 12 x 15	
1554402	15 x 12 x 12	
1554188	15 x 22 x 15	
1554699	18 x 12 x 18	
1554189	18 x 15 x 18	
1554190	18 x 22 x 18	
1554552	22 x 12 x 22	
1554191	22 x 15 x 22	
1554192	22 x 18 x 22	
1554193	22 x 28 x 22	
1554194	28 x 15 x 28	
1554195	28 x 18 x 28	
1554196	28 x 22 x 28	
1554197	35 x 15 x 35	



Reducing tee		
Item No.	Dimension	
1554198	35 x 18 x 35	
1554199	35 x 22 x 35	
1554200	35 x 28 x 35	
1554201	42 x 22 x 42	
1554202	42 x 28 x 42	
1554203	42 x 35 x 42	
1554204	54 x 22 x 54	
1554205	54 x 28 x 54	
1554206	54 x 35 x 54	
1554207	54 x 42 x 54	

Offset cross		
Item No.	Dimension	
1554573	12 x 12	
1554404	12 x 15	
1554406*	12 x 22	
1554289	15 x 15	
1554291	22 x 15	
1554293	28 x 15	

Cross tee		
Item No.	Dimension	
1554403	12 x 12	
1554279	15 x 15	
1554280*	18 x 15	
1554281	22 x 15	
1554282	22 x 18	
1554285*	28 x 22	

Tee with female thread branch		
Item No.	Dimension	
1554208	15 x G15 x 15	
1554209	18 x G15 x 18	
1554210	18 x G20 x 18	
1554211	22 x G15 x 22	
1554212	22 x G20 x 22	
1554213	28 x G15 x 28	
1554215	28 x G25 x 28	
1554216	35 x G15 x 35	
1554219	35 x G32 x 35	
1554220	42 x G15 x 42	
1554223	42 x G40 x 42	
1554224	54 x G15 x 54	
1554226	54 x G50 x 54	

* = Beställningsvara

Slip bend 90° smooth end		
Item No.	Dimension	
1554398	12	
1554138	15	
1554140	22	
1554141	28	
1554142	35	
1554143	42	
1554144	54	

End cap		
Item No.	Dimension	
1554413	12	
1554307	15	
1554308	18	
1554309	22	
1554310	28	
1554311	35	
1554312	42	
1554313	54	

Adapter female thread 1 collar		
Item No.	Dimension	
1554407	G10 x 12	
1554408	G15 x 12	
1554228	G15 x 15	
1554232	G20 x 22	
1554233	G20 x 28	
1554234	G25 x 28	
1554235	G25 x 35	
1554236	G32 x 35	
1554237	G40 x 35	
1554238	G40 x 42	
1554240	G50 x 54	

Adapter male thread 1 collar		
Item No.	Dimension	
1554409	R10 x 12	
1554410	R15 x 12	
1554241	R10 x 15	
1554242	R15 x 15	
1554243	R15 x 18	
1554245	R15 x 22	
1554244	R20 x 18	
1554246	R20 x 22	
1554247	R20 x 28	
1554248	R25 x 28	
1554249	R25 x 35	
1554250	R32 x 35	
1554251	R40 x 35	
1554252	R40 x 42	
1554253	R50 x 54	

Adapter smooth female thread		
Item No.	Dimension	
1554274	G15 x 15	
1554276	G15 x 22	
1554277	G20 x 18	
1554278	G20 x 22	

90° elbow male thread 1 collar		
Item No.	Dimension	
1554128	R20 x 22	

Distributor			
Item No.	Dimension	Typ	
1554598	12 x 12	Double	
1554599	15 x 12	Double	
1554600	15 x 15	Double	
1554601	18 x 12	Double	
1554602	18 x 15	Double	
1554603	22 x 12	Double	
1554604	22 x 15	Double	
1554605*	28 x 12	Double	
1554606	28 x 15	Double	
1554607*	35 x 15	Double	
1554608	12 x 12	Single	
1554609	15 x 12	Single	
1554610	15 x 15	Single	
1554611	18 x 12	Single	
1554612	18 x 15	Single	
1554613	22 x 12	Single	
1554614	22 x 15	Single	
1554615*	28 x 12	Single	
1554616	28 x 15	Single	

Altech press O-ring			
Viton (green)	EPDM (black)	Viton (red)	
			
For solar heating systems, steam and hot water 0–160 °C (peaks at max. 200 °C).	For drinking water, heating and oil-free compressed air (less than 5 mg/m).	For compressed air with residual oil (more than 5 mg/m) and specific petroleum fluids.	

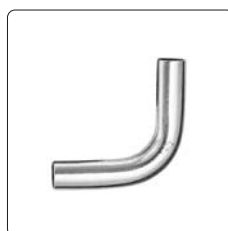
See page 23 for further information.

* = Beställningsvara

Press fittings, acid-proof stainless steel – AISI 316/SIS 2348

- Wide range of press fittings in dimensions of 15–54 mm.
- The press fitting O-ring is equipped with a leak and pressing indicator, see page 4.
- Kiwa type approval No.: 1054.

Dimensions	15, 18, 22, 28, 35, 42, 54	Press profile	12–35 mm V jaw 42–54 mm press collar
Material	Acid-proof stainless steel - AISI 316/SIS 2348	Max. temperature, continuous/short-term	Drinking water: 95/110 °C Heating water: 110/110 °C Compressed air: 30/60 °C Refrigerant: -20/-30 °C
O-ring	EPDM (black))	Max. pressure, continuous/short-term	Drinking water/compressed air/refrigerant: 10/16 bar Heating water: 6/16 bar



Acid-proof stainless steel pipe
AISI1316L in press dimensions in accordance with EN 10204

Item No.	Dimension	Length
1456560	15 x 1,0	6 m
1456562	22 x 1,2	6 m
1456563	28 x 1,2	6 m
1456564	35 x 1,5	6 m
1456565	42 x 1,5	6 m
1456566	54 x 1,5	6 m



90° bend 1 collar

Item No.	Dimension
1456331	15
1456332	18
1456333	22
1456334	28
1456335	35
1456336	42
1456337	54



90° bend 2 collar

Item No.	Dimension
1456338	15
1456339	18
1456340	22
1456341	28
1456342	35
1456343	42
1456344	54



45° bend 1 collar

Item No.	Dimension
1456387	15
1456388	18
1456389	22
1456390	28
1456391	35
1456392	42
1456393	54



45° bend 2 collar

Item No.	Dimension
1456394	15
1456395	18
1456396	22
1456397	28
1456398	35
1456399	42
1456400	54



S bend short

Item No.	Dimension
1456551*	15
1456552	18
1456553	22
1456554*	28



Straight slip coupling
2 collar

Item No.	Dimension
1456428	15
1456429*	18
1456430	22
1456431	28
1456432	35
1456433	42
1456434	54



Double collar

Item No.	Dimension
1456421	15
1456422	18
1456423	22
1456424	28
1456425	35
1456426	42
1456427	54



Reducer 1 collar

Item No.	Dimension
1456442	18 x 15
1456443	22 x 15
1456444	22 x 18
1456445	28 x 15
1456446	28 x 18
1456447	28 x 22
1456449	35 x 22
1456450	35 x 28
1546454	42 x 35
1546455	54 x 22
1546456	54 x 28
1546458	54 x 42



* = Beställningsvara

End cap		
Item No.	Dimension	
1443522	15	
1443523	18	
1443524	22	
1443525	28	
1443526	35	
1443527	42	
1443528	54	

Tee		
Item No.	Dimension	
1456459	15	
1456460	18	
1456461	22	
1456462	28	
1456463	35	
1456464	42	
1456465	54	

Reducing tee		
Item No.	Dimension	
1456466*	18 x 15 x 18	
1456467	22 x 15 x 22	
1456468*	22 x 18 x 22	
1456469	28 x 15 x 28	
1456470*	28 x 18 x 28	
1456471	28 x 22 x 28	
1456472	35 x 15 x 35	
1456473	35 x 18 x 35	
1456474	35 x 22 x 35	
1456475	35 x 28 x 35	
1456476	42 x 22 x 42	
1456477	42 x 28 x 42	
1456478	42 x 35 x 42	
1456480	54 x 22 x 54	
1456481	54 x 28 x 54	
1456482	54 x 35 x 54	
1456483*	54 x 42 x 54	

Tee with female thread branch		
Item No.	Dimension	
1456484	15 x G15 x 15	
1456487	22 x G15 x 22	
1456488	22 x G20 x 22	
1456489	28 x G15 x 28	
1456491	28 x G25 x 28	
1456492	35 x G15 x 35	
1456494*	35 x G32 x 35	
1456495	42 x G15 x 42	
1456498	42 x G40 x 42	
1456499	54 x G15 x 54	
1456503*	54 x G50 x 54	

* = Beställningsvara

Elbow female thread 1 collar		
Item No.	Dimension	
1456404*	G20 x 22	

Slip bend 90° smooth end		
Item No.	Dimension	
1456380	15	
1456382	22	
1456383	28	
1456384	35	
1456385	42	
1456386	54	

Adapter collar female thread		
Item No.	Dimension	
1456516	G15 x 15	
1456520	G20 x 22	
1456521	G20 x 28	
1456523	G25 x 28	
1456524	G25 x 35	
1456525	G40 x 42	
1456526	G32 x 35	
1456527	G50 x 54	

Adapter collar male thread		
Item No.	Dimension	
1456504	R15 x 15	
1456505	R15 x 18	
1456506	R15 x 22	
1456507	R20 x 18	
1456508	R20 x 22	
1456509	R20 x 28	
1456510	R25 x 22	
1456511	R25 x 28	
1456512	R25 x 35	
1456514	R32 x 35	
1456513	R40 x 42	
1456515	R50 x 54	

Altech press O-ring		
Viton (green)	EPDM (black)	Viton (red)
		
For solar heating systems, steam and hot water 0–160 °C (peaks at max. 200 °C).	For drinking water, heating and oil-free compressed air (less than 5 mg/m).	For compressed air with residual oil (more than 5 mg/m) and specific petroleum fluids.

See page 23 for further information.

O-rings



EPDM (black) – standard ring for drinking water, heat and oil-free compressed air (less than 5 mg/ m³). Temperature: between -20 °C and 110 °C. Manufactured in accordance with EN 681-1. Class 1-4 in accordance with ISO 8573.

Item No.	Dimension	Copper, chrome plated copper	Stainless steel	Galvanized steel
1770283	12	✓	✓	✓
1770284	15	✓	✓	✓
1770285	18	✓	✓	✓
1770286	22	✓	✓	✓
1770287	28	✓	✓	✓
1770289	35	✓	✓	✓
1770290	42	✓	—	—
1770291	54	✓	—	—
1456570	42	—	✓	✓
1456571	54	—	✓	✓
1739788	76,1	✓	✓	✓
1739789	88,9	✓	✓	✓
1739790	108	✓	—	—
1447845	108	—	✓	✓



Viton (green) – for solar heating systems, steam and hot water requiring high temperatures. Temperature: between 0 and 160 °C, with peaks at 200 °C. Class 5 in accordance with ISO 8573.

Item No.	Dimension	Copper, chrome plated copper	Stainless steel	Galvanized steel
1770292	12	✓	✓	✓
1770293	15	✓	✓	✓
1770294	18	✓	✓	✓
1770295	22	✓	✓	✓
1770297	28	✓	✓	✓
1770298	35	✓	✓	✓
1770299	42	✓	—	—
1770300	54	✓	—	—
1456572	42	—	✓	✓
1456573	54	—	✓	✓
1739791	76,1	✓	✓	✓
1739792	88,9	✓	✓	✓
1739793	108	✓	—	—
1447871	108	—	✓	✓



Viton (red) – for compressed air with residual oil (more than 5 mg/m³) and specific petroleum fluids. Max. temperature: 60 °C. Class 7 in accordance with ISO 8573.

Item No.	Dimension	Copper, chrome plated copper	Stainless steel	Galvanized steel
1771022	12	✓	—	—
1771023	15	✓	✓	✓
1771024	18	✓	✓	✓
1771025	22	✓	✓	✓
1771026	28	✓	✓	✓
1771027	35	✓	✓	✓
1771028	42	✓	—	—
1771029	54	✓	—	—
1771060	42	—	✓	✓
1771061	54	—	✓	✓
1739794	76,1	✓	✓	✓
1739795	88,9	✓	✓	✓
1739796	108	✓	—	—
1447872	108	—	✓	✓



HNBR (yellow) – for gas and liquefied petroleum gas (LPG). Manufactured in accordance with EN 549. Temperature: between -20 and 70 °C.

Item No.	Dimension	Koppar
1739797	12	✓
1739798	15	✓
1739799	22	✓
1739800	28	✓
1739801	35	✓
1739802	42	✓
1739803	54	✓

Item No.	Application	Pressure	Temperature range	Short-term max. temp.	EN standard	ISO 8573
EPDM black	Hot and cold drinking water	16 bar	Up to +110 °C	+130 °C	EN 681-1	Class 1-4
EPDM black	Compressed air	16 bar	—	—	—	Class 6
HNBR yellow	Gas and liquefied natural gas (LNG)	5 bar	-20-70 °C	—	EN 549	—
Viton green	Steam	1 bar	Up to +120 °C	+160 °C	—	Class 5
Viton green	Hot water	6 bar	Up to +160 °C	+200 °C	—	—
Viton red	Oils	10 bar	Up to +60 °C	—	—	—
Viton red	Compressed air	10 bar	Up to +60 °C	—	—	Class 7

Technical description

Altech press fittings comprise a complete system with press fittings for quickly and reliably connecting copper, stainless steel and galvanized pipes. The pipes must be intended for press fittings and manufactured in accordance with the correct standard for the specific material type. Stainless steel is governed by EN 10204, copper by EN 1057 and galvanized steel by EN 10305-3. Press fittings are available in dimensions of 12–108 mm in copper/galvanized steel, 12–15 mm in chrome plated copper and 15–108 mm in acid-proof stainless steel.

Temperature and pressure			
For continuous operation	Copper, chrome plated copper	Acid-proof stainless steel	Galvanized steel
Drinking water	95 °C/10 bar	95 °C/10 bar	—
Heating water	110 °C/6 bar	110 °C/6 bar	110 °C/6 bar
Compressed air	30 °C/10 bar	30 °C/10 bar	30 °C/10 bar
Refrigerant	-20 °C/10 bar	-20 °C/10 bar	-20 °C/10 bar

Technical data				
	Altech press fitting Copper, chrome plated copper	Altech press fitting Acid-proof Stainless steel	Altech press fitting Galvanized steel	Altech press fitting Copper, gas
Dimension	12–108	15–108	12–108	15–54
Material	Koppar/Rödgods	AISI 316/SIS 2348 Acid-proof stainless steel	Galvanized steel	Copper/copper alloys
O-ring standard, material	EPDM	EPDM	EPDM	HNBR
O-ring standard, colour	Black	Black	Black	Yellow
Press profile	V	V	V	V
Max. temperature with Viton O-ring (green)	160 °C	160 °C	160 °C	—

Application				
	Altech press fitting Copper, chrome plated copper	Altech press fitting Acid-proof Stainless steel	Altech press fitting Galvanized steel	Altech press fitting Copper, gas
Gas	✓	✓	✓	✓
Drinking water	✓	✓	—	—
Heating/refrigerant	✓	✓	✓	—
Oil-free compressed air	✓	✓	✓	✓
Solar heating systems	✓ O-ring Viton (green)	✓ O-ring Viton (green)	—	—
Petroleum	✓ O-ring Viton (red)	✓ O-ring Viton (red)	✓ O-ring Viton (red)	—
Firefighting	✓	✓	✓	—

Application areas for gas installations			
	Copper/copper alloy gas connec-tions	Gas-kopplingar koppar/rödgods (gul O-ring HNBR)	Max. pressure, bar
Compressed air	✓	✓	16
Dry ice	—	✓	16
N2	✓	✓	16
Argon	✓	✓	10
Corgon	✓	✓	16
Vacuum	✓	✓	10
Oxygen	✓	—	10
Natural gas and LPG	—	✓	5

Considerations before installation

- A special profile on the O-ring enables the fitting to indicate a leak if it is not pressed.
- The O-ring profile does not affect the final result, as the ring is compressed on pressing and seals against the pipe.
- Altech press fittings must be pressed using approved machines and press jaws.
- The machine must have a minimum pressing force of 19 kN for dimensions of 12–28 mm for copper and 12–22 mm for stainless steel and galvanized steel. Above these dimensions and up to dimension 54 mm, the pressing force must be at least 32 kN. Special machines are required for dimensions 76.1–108 mm and a pressing force of 45 kN is usually required. These are specified in a list of approved machines. The list is available at Dahl.se.
- Follow the recommendation from the manufacturer of the pressing tool regarding service and calibration. A service or calibration certificate must be available for inspection on request. Note that the specification for the press tool differs between the different manufacturers.



Altech M-profile press fittings must be pressed using type M press jaws or press collars.

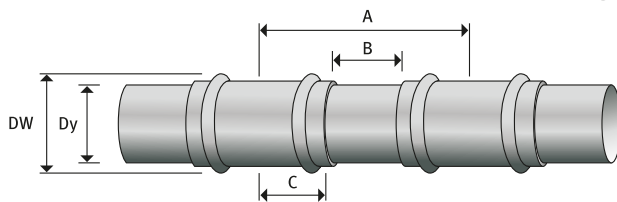
- Copper can be pressed using press jaws up to 54 mm, but it is recommended to use press collars for dimensions of 42–54 mm. Press collars must always be used for dimensions of 76.1–108 mm.
- Stainless steel and galvanized steel must be pressed with press collars for dimensions of 42 mm to 108 mm in order to ensure complete pressing and leak-tightness.



Support sleeves must be used when pressing annealed (soft) and thin-walled copper pipes fabricated in accordance with EN 1057.

- Altech press fittings must be stress-relieved in systems with large temperature fluctuations.
- The rules for anchoring on contraction and expansion in copper pipes apply in all cases.

Minimum permitted distance between fittings



Pipe diameter (Dy) (mm)	Outside diameter (pressed (DW)) (mm)	Min. pipe length (A) (mm)	Min. spacing (B) (mm)	Insertion depth (C) (mm)
12	18.60	46	10	18
15	21.85	54	10	22
18	22.05	59	15	22
22	29.90	66	20	23
28	35.78	68	20	24
35	42.65	77	25	26
42	52.05	102	30	36
54	63.05	115	35	40

Chemical compatibility guide

Remarks

- This guide on chemical resistance has been compiled to help the pipe system designer select chemically resistant materials.
- The provided information is intended only as a guideline. Material selection can be affected by many factors.
- Careful consideration must be given to temperature, pressure and chemical concentrations before a final material selection can be made.
- The chemical resistance of elastomers can differ from that of metals. They are therefore assigned separate columns in the classification table.

Material classification

A = Outstanding

B = Good – the material is slightly affected but is still suitable

C = Adequate – a certain degree of reaction occurs, but the material is still suitable

D = Large effect – not recommended

X = No conclusive data

- Fluids other than water cannot be used for food applications, as press fitting systems are not suitable for these substances due to the risk of blockage at joints.

Please contact us at 020-55 11 00 or tk@altech.nu for technical support.

Fluids	Fitting				O-ring		
	Copper	Copper alloys	AISI 316	Carbon steel	EPDM (black)	HNBR (yellow)	Viton (red)
Acetone 100 %	A	A	A	A	A	D	D
Acetylene	D	D	A	A	A	A	A
Ammonia, dry	C	C	A	A	A	A	D
Ammonium phosphate 10%	D	D	C	X	A	A	A
Ammonium chloride 1%	X	D	A	D	A	A	A
Ammonium nitrate 10+50%	D	D	A	D	A	A	A
Ammonium sulphate 10%	D	D	C	C	A	A	D
Aniline	D	D	A	A	B	D	C
Aqua regia, nitric acid	X	D	A	D	C	D	B
Benzene	A	A	A	A	D	D	A
Boric acid 5%	D	D	A	D	A	A	A
Butane	A	A	A	A	D	A	A
Butanol	C	C	A	A	A	A	A
Calcium hydroxide < = 10 °C	D	D	C	B	A	A	A
Calcium hypochlorite	D	D	D	D	A	C	A
Caustic soda 50%	X	A	A	D	A	B	C
Chlorine (dry)	D	D	B	B	A	B	A
Carbon dioxide	A	A	A	C	B	A	A
Citric acid 5%	D	D	A	D	A	A	A
Compressed air	A	A	A	B	D	A	A
Copper chloride	D	D	D	D	A	A	A
Copper nitrate	D	D	A	D	A	A	A
Copper sulphate 10%	D	D	A	D	A	A	A
Ethane	A	A	A	A	D	A	A
Ethylene glycol	A	A	A	B	A	A	A
Ethylene oxide	X	A	A	X	C	D	D
Formaldehyde	X	A	A	D	A	B	A
Fuel oil	A	A	A	X	D	A	A
Gear oil	A	A	A	B	D	A	A
Hexane	X	A	A	A	D	A	A
Hydrochloric acid 37 %	D	D	D	D	C	D	A
Hydrogen peroxide 10%	D	D	A	D	C	D	B
Iron chloride, dissolved in water	D	D	D	D	A	A	A
Iron sulphate	D	D	C	D	A	A	A
Kerosene	A	A	A	B	D	A	A
Linseed oil	A	A	A	A	A	A	A
Lubricating oils	A	A	A	A	D	A	A
Magnesium hydroxide 100 °C	X	A	C	B	A	B	A
Magnesium chloride 20%	A	A	A	B	A	A	A
Magnesium sulphate < 40%	A	A	A	B	A	A	A

A: Outstanding

B: Good – the material is slightly affected but is still suitable

C: Adequate – certain degree of reaction but still suitable

D: Large effect – not recommended

X: No data

Fluids	Fitting				O-ring		
	Copper	Copper alloys	AISI 316	Carbon steel	EPDM (black)	HNBR (yellow)	Viton (red)
Machine oil	A	A	A	B	D	A	A
Methane A	A	A	A	D	A	A	A
Methanol	A	A	A	B	A	B	D
Mineral oil	A	A	A	A	D	A	A
Motor oil	A	A	A	B	D	A	A
Naphtha	A	A	A	A	D	B	A
Naphthalene	X	A	A	A	D	D	A
Nickel chloride 10+30%	X	D	C	D	A	A	A
Nickel sulphate	A	D	A	D	A	A	A
Nitric acid 20%	D	D	A	D	A	D	B
Paraffin	A	A	A	B	D	A	A
Petrol	A	A	A	A	D	B	A
Phosphoric acid, concentrated	D	D	A	D	A	D	A
Potassium hydroxide 50 °C	X	D	C	D	A	B	D
Potassium chloride	A	X	A	D	A	A	A
Potassium sulphate 10%	A	A	A	B	A	A	A
Propane (liquid)	A	A	A	A	D	A	A
Propylene glycol	C	C	A	B	A	C	A
Seawater C	A	B	D	A	A	A	A
Sodium bicarbonate	A	A	A	C	A	A	A
Sodium phosphate	C	C	C	D	A	A	A
Sodium hypochlorite < 20% < 25 °C	D	D	A	D	A	B	A
Sodium nitrate 40%	C	A	A	C	A	B	A
Sodium sulphate 10%	A	A	A	B	A	A	A
Sulphur dioxide (dry)	A	A	C	B	A	D	B
Sulphuric acid 10% 60 °C	D	D	D	D	B	C	A
Sulphuric acid 100%, wet	D	D	C	D	C	X	B
Sulphuric acid, fuming	D	D	D	D	D	X	B
Tannin	X	A	A	D	A	A	A
Tartaric acid 10% 100 °C	C	A	A	D	B	A	A
Toluene 20 °C	A	A	A	C	D	D	B
Trichloroethylene	A	A	C	B	D	D	A
Turpentine	A	A	C	B	D	A	B
Water <= 100 °C	A	A	A	C	A	A	A
Water, deionised	A	B	A	A	A	A	A
Water, distilled	A	A	A	X	A	B	A
Zinc chloride	X	D	A	X	A	B	A
Zinc sulphate %	A	D	A	X	A	A	A

A: Outstanding

B: Good – the material is slightly affected but is still suitable

C: Adequate – certain degree of reaction but still suitable

D: Large effect – not recommended

X: No data

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