



LARGE-DIAMETER
PRESS-FITTING SOLUTIONS
FOR FLUID AND GAS SYSTEMS

PARTS BOOK

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AST APPLIED SYSTEM
TECHNOLOGIES™

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TECHNICAL SPECIFICATIONS

The TruPress, Press Fitting System provides a comprehensive solution for joining tubing for fluid and gas systems through mechanical press connections.



SIMPLICITY

Cut, insert and press



SPEED OF INSTALLATION

Reduce labor times by up to 60% compared to traditional systems



SAFETY

No open flame = No fire risk

TRUPRESS SYSTEM COMPONENTS

TruPress systems come in various configurations with different sealing options to meet specific application needs:

CONFIGURATION	APPLICATION	MATERIAL	SEAL
TruPress 316L	Potable water, heating, and compressed air systems	AISI 316L Stainless Steel	Black EPDM Seal Ring
TruPress 316L HT	Solar and steam systems	AISI 316L Stainless Steel	Green FKM Seal Ring
TruPress 316L Steam	Steam and condensate service	AISI 316L Stainless Steel	White Seal Ring
TruPress 316L Gas	Natural gas and LPG installations. Not suitable for potable water systems	AISI 316L Stainless Steel	Yellow HNBR Seal Ring
TruPress 304L	Lab gas, chilled water, cooling systems, compressed air	AISI 304L Stainless Steel	EPDM, FKM Seal Ring

TruPress is suitable for a wide variety of fluid and gas systems including:

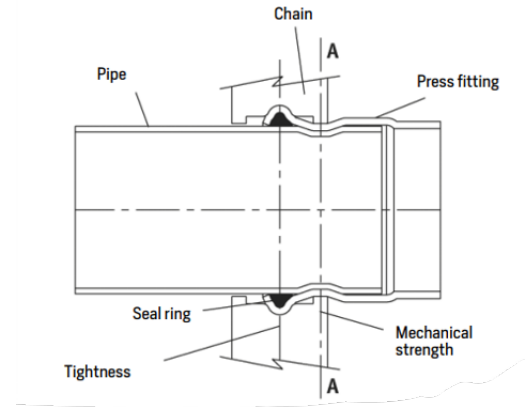


- Potable and treated water systems (EPDM)
- Hydronic heating (EPDM)
- Cooling and refrigeration (EPDM/FKM)
- Compressed air and inert gases (EPDM/FKM)
- Natural gas and LPG (HNBR)
- Solar, vacuum, and steam service (FKM or white seals)
- Fire protection and sprinkler installations (EPDM, above-ground only)

TECHNICAL SPECIFICATIONS (Continued)

CONNECTION TECHNOLOGY – M PROFILE

TruPress uses the M-Profile press connection method. The pipe is inserted into the fitting to the proper insertion depth, then pressed using an approved tool with the correct jaws or collars. This creates a dual-plane compression that forms a strong mechanical joint and maintains a reliable, permanently elastic seal at the O-ring.



PIPING AND TUBING

TruPress stainless steel tubing is longitudinally welded, thin-walled pipe available in 316L and 304L materials.

Max Pressure: 232 psi

Max Temperature: EPDM seal: 248°F | FKM seal: 428°F

Pipes are supplied in 19'-6" standard lengths with end caps to prevent contamination. All tubing is free of annealing color and surface impurities for optimal corrosion resistance and clean installation.

PRESSING TOOLS AND EQUIPMENT

Pressing must be performed with approved TruPress-compatible tools.

- 1/2"-1-1/4": Press using jaws
- 1-1/2" and larger: Press using collars or chains

Pressing should only be done within the following ambient temperature ranges:

- Battery tools: 14°F to 104°F

CERTIFICATIONS AND STANDARDS

- ASTM A312
- EN 10312
- ASTM A554
- ANSI/NSF 61



ASTM INTERNATIONAL



Description	Part Number
15mm Pipe 316L N/annealed	TS1-15-316-NA
22mm Pipe 316L N/annealed	TS1-22-316-NA
28mm Pipe 316L N/annealed	TS1-28-316-NA
42mm Pipe 316L N/annealed	TS1-42-316-NA
54mm Pipe 316L N/annealed	TS1-54-316-NA
76mm Pipe 316L N/annealed	TS1-76-316-NA
88mm Pipe 316L N/annealed	TS1-88-316-NA
108mm Pipe 316L N/annealed	TS1-108-316-NA
168mm Pipe 316L N/annealed	TS1-168-316-NA
15mm Pipe 316L annealed	TS1-15-316
22mm Pipe 316L annealed	TS1-22-316
28mm Pipe 316L annealed	TS1-28-316
42mm Pipe 316L annealed	TS1-42-316
54mm Pipe 316L annealed	TS1-54-316
76mm Pipe 316L annealed	TS1-76-316
88mm Pipe 316L annealed	TS1-88-316
108mm Pipe 316L annealed	TS1-108-316
15mm Pipe 304L N/annealed	TS1-15-304
22mm Pipe 304L N/annealed	TS1-22-304
28mm Pipe 304L N/annealed	TS1-28-304
35mm Pipe 304L N/annealed	TS1-35-304
42mm Pipe 304L N/annealed	TS1-43-304
54mm Pipe 304L N/annealed	TS1-54-304
76mm Pipe 304L N/annealed	TS1-76-304
88mm Pipe 304L N/annealed	TS1-88-304
108mm Pipe 304L N/annealed	TS1-108-304
168mm Pipe 304L N/annealed	TS1-168-304
15mm 15° Elbow	TS5-15
22mm 15° Elbow	TS5-22
28mm 15° Elbow	TS5-28
35mm 15° Elbow	TS5-35
42mm 15° Elbow	TS5-42
54mm 15° Elbow	TS5-54

Description	Part Number
76mm 15° Elbow	TS5-76
88mm 15° Elbow	TS5-88
108mm 15° Elbow	TS5-108
15mm 45° Elbow	TS8-15
22mm 45° Elbow	TS8-22
28mm 45° Elbow	TS8-28
42mm 45° Elbow	TS8-42
54mm 45° Elbow	TS8-54
76mm 45° Elbow	TS8-76
88mm 45° Elbow	TS8-88
108mm 45° Elbow	TS8-108
168mm 45° Elbow	TS8-168
15mm 90° Elbow	TS6-15
22mm 90° Elbow	TS6-22
28mm 90° Elbow	TS6-28
42mm 90° Elbow	TS6-42
54mm 90° Elbow	TS6-54
76mm 90° Elbow	TS6-76
88mm 90° Elbow	TS6-88
108mm 90° Elbow	TS6-108
168mm 90° Elbow	TS6-168
22mm x 15mm x 22mm Reducing Tee	TS10-22-15
28mm x 15mm x 28mm Reducing Tee	TS10-28-15
28mm x 22mm x 28mm Reducing Tee	TS10-28-22
35mm x 15mm x 35mm Reducing Tee	TS10-35-15
35mm x 22mm x 35mm Reducing Tee	TS10-35-22
35mm x 28mm x 35mm Reducing Tee	TS10-35-28
42mm x 22mm x 42mm Reducing Tee	TS10-42-22
42mm x 28mm x 42mm Reducing Tee	TS10-42-28
42mm x 35mm x 42mm Reducing Tee	TS10-42-35
54mm x 22mm x 54mm Reducing Tee	TS10-54-22
54mm x 28mm x 54mm Reducing Tee	TS10-54-28
54mm x 35mm x 54mm Reducing Tee	TS10-54-35
54mm x 42mm x 54mm Reducing Tee	TS10-54-42
76mm x 22mm x 76mm Reducing Tee	TS10-76-22



Description	Part Number
76mm x 28mm x 76mm Reducing Tee	TS10-76-28
76mm x 35mm x 76m Reducing Tee	TS10-76-35
76mm x 42mm x 76mm Reducing Tee	TS10-76-42
76mm x 54mm x 76mm Reducing Tee	TS10-76-54
88mm x 22mm x 88mm Reducing Tee	TS10-88-22
88mm x 28mm x 88mm Reducing Tee	TS10-88-28
88mm x 35mm x 88mm Reducing Tee	TS10-88-35
88mm x 42mm x 88mm Reducing Tee	TS10-88-42
88mm x 54mm x 88mm Reducing Tee	TS10-88-54
88mm x 76mm x 88mm Reducing Tee	TS10-88-76
108mm x 22mm x 108mm Reducing Tee	TS10-108-22
108mm x 28mm x 108mm Reducing Tee	TS10-108-28
108mm x 35mm x 108mm Reducing Tee	TS10-108-35
108mm x 42mm x 108m Reducing Tee	TS10-108-42
108mm x 54mm x 108mm Reducing Tee	TS10-108-54
108mm x 76mm x 108mm Reducing Tee	TS10-108-76
108mm x 88mm x 108mm Reducing Tee	TS10-108-88
168mm x 35mm x 168mm Reducing Tee	TS10-168-35
168mm x 76mm x 168mm Reducing Tee	TS10-168-76
168mm x 88mm x 168mm Reducing Tee	TS10-168-88
168mm x 108mm x 168mm Reducing Tee	TS10-168-108
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15mm Equal Tee	TS9-15
22mm Equal Tee	TS9-22
28mm Equal Tee	TS9-28
42mm Equal Tee	TS9-42
54mm Equal Tee	TS9-54
76mm Equal Tee	TS9-76
88mm Equal Tee	TS9-88
108mm Equal Tee	TS9-108
168mm Equal Tee	TS9-168
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15mm Coupling	TS2-15
22mm Coupling	TS2-22
28mm Coupling	TS2-28
42mm Coupling	TS2-42





Description	Part Number
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54mm Coupling	TS2-54
76mm Coupling	TS2-76
88mm Coupling	TS2-88
108mm Coupling	TS2-108
168mm Coupling	TS2-168
15mm Slip Coupling	TS2-15-SC
22mm Slip Coupling	TS2-22-SC
28mm Slip Coupling	TS2-28-SC
35mm Slip Coupling	TS2-35-SC
42mm Slip Coupling	TS2-42-SC
54mm Slip Coupling	TS2-54-SC
76mm Slip Coupling	TS2-76-SC
88mm Slip Coupling	TS2-88-SC
108mm Slip Coupling	TS2-108-SC
15mm Stop End	TS20-15
22mm Stop End	TS20-22
28mm Stop End	TS20-28
42mm Stop End	TS20-42
54mm Stop End	TS20-54
76mm Stop End	TS20-76
88mm Stop End	TS20-88
108mm Stop End	TS20-108
168mm Stop End	TS20-168
15mm x Adapter, male NPT 1/2"	TS3-15-08M
22mm x Adapter, male NPT 3/4"	TS3-22-12M
28mm x Adapter, male NPT 1"	TS3-28-16M
42mm x Adapter, male NPT 1 1/2"	TS3-42-24M
54mm x Adapter, male NPT 2"	TS3-54-32M
15mm x Adapter, female NPT 1/2"	TS3-15-08F
22mm x Adapter, female NPT 3/4"	TS3-22-12F
28mm x Adapter, female NPT 1"	TS3-28-16F
42mm x Adapter, female NPT 1 1/2"	TS3-42-24F
54mm x Adapter, female NPT 2"	TS3-54-32F

Description	Part Number
15mm Conical Union	TS12-15
22mm Conical Union	TS12-22
28mm Conical Union	TS12-28
35mm Conical Union	TS12-35
42mm Conical Union	TS12-42
54mm Conical Union	TS12-54
15mm Flat Faced Union	TS12-15-FF
22mm Flat Faced Union	TS12-22-FF
28mm Flat Faced Union	TS12-28-FF
35mm Flat Faced Union	TS12-35-FF
42mm Flat Faced Union	TS12-42-FF
54mm Flat Faced Union	TS12-54-FF
22mm x 15mm Reducer	TS21-22-15
28mm x 15mm Reducer	TS21-28-15
28mm x 22mm Reducer	TS21-28-22
42mm x 15mm Reducer	TS21-42-15
42mm x 22mm Reducer	TS21-42-22
42mm x 28mm Reducer	TS21-42-28
54mm x 15mm Reducer	TS21-54-15
54mm x 22mm Reducer	TS21-54-22
54mm x 28mm Reducer	TS21-54-28
54mm x 42mm Reducer	TS21-54-42
76mm x 42mm Reducer	TS21-76-42
76mm x 54mm Reducer	TS21-76-54
88mm x 54mm Reducer	TS21-88-54
88mm x 76mm Reducer	TS21-88-76
108mm x 54mm Reducer	TS21-108-54
108mm x 76mm Reducer	TS21-108-76
108mm x 88mm Reducer	TS21-108-88
168mm x 76mm Reducer	TS21-168-76
168mm x 88mm Reducer	TS21-168-88
168mm x 108mm Reducer	TS21-168-108



	Description	Part Number
	15mm Pipe Bridge	TS1-15-PB
	22mm Pipe Bridge	TS1-22-PB
	28mm Pipe Bridge	TS1-28-PB
	15mm Goose Neck	TS1-15-GN
	22mm Goose Neck	TS1-22-GN
	28mm Goose Neck	TS1-28-GN
	15mm ANSI Adapter Flange	TS4-15
	22mm ANSI Adapter Flange	TS4-22
	28mm ANSI Adapter Flange	TS4-28
	42mm ANSI Adapter Flange	TS4-42
	54mm ANSI Adapter Flange	TS4-54
	76mm ANSI Adapter Flange	TS4-76
	88mm ANSI Adapter Flange	TS4-88
	108mm ANSI Adapter Flange	TS4-108
	168mm ANSI Adapter Flange	TS4-168
	76mm x 35mm Saddle Clamp	TS13-76-35
	88mm x 42mm Saddle Clamp	TS13-88-42
	108mm x 54mm Saddle Clamp	TS13-108-54
	1/2" Stainless Steel Lockable Ball Valve	TS25-08F-SS
	3/4" Stainless Steel Lockable Ball Valve	TS25-12F-SS
	1" Stainless Steel Lockable Ball Valve	TS25-16F-SS
	1-1/2" Stainless Steel Lockable Ball Valve	TS25-24F-SS
	2" Stainless Steel Lockable Ball Valve	TS25-32F-SS
	15mm 2-piece Ball Valve	TS24-15
	22mm 2-piece Ball Valve	TS24-22
	28mm 2-piece Ball Valve	TS24-28
	15mm 3-piece Ball Valve	TS26-15
	22mm 3-piece Ball Valve	TS26-22
	28mm 3-piece Ball Valve	TS26-28
	35mm 3-piece Ball Valve	TS26-35
	42mm 3-piece Ball Valve	TS26-42
	54mm 3-piece Ball Valve	TS26-54
	76mm 3-piece Ball Valve	TS26-76
	88mm 3-piece Ball Valve	TS26-88
108mm 3-piece Ball Valve	TS26-108	

Description	Part Number
22mm Non-Return Valve	TS30-22
28mm Non-Return Valve	TS30-28
35mm Non-Return Valve	TS30-35
42mm Non-Return Valve	TS30-42
54mm Non-Return Valve	TS30-54
76mm Non-Return Valve	TS30-76
88mm Non-Return Valve	TS30-88
108mm Non-Return Valve	TS30-108
15mm Expansion Joint	TS32-15
22mm Expansion Joint	TS32-22
28mm Expansion Joint	TS32-28
35mm Expansion Joint	TS32-35
42mm Expansion Joint	TS32-42
54mm Expansion Joint	TS32-54
76mm Expansion Joint	TS32-76
88mm Expansion Joint	TS32-88
108mm Expansion Joint	TS32-108
15mm U-bend Flexible Pipe	TS1-15-U
22mm U-bend Flexible Pipe	TS1-22-U
28mm U-bend Flexible Pipe	TS1-28-U
35mm U-bend Flexible Pipe	TS1-35-U
42mm U-bend Flexible Pipe	TS1-42-U
54mm U-bend Flexible Pipe	TS1-54-U
15mm Straight Flexible Pipe	TS1-15-FLEX
22mm Straight Flexible Pipe	TS1-22-FLEX
28mm Straight Flexible Pipe	TS1-28-FLEX
35mm Straight Flexible Pipe	TS1-35-FLEX
42mm Straight Flexible Pipe	TS1-42-FLEX
54mm Straight Flexible Pipe	TS1-54-FLEX
15mm 1-hole Nebulizer Connection	TS-NEB-CON-1
15mm 2-hole Nebulizer Connection	TS-NEB-CON-2
15 µm Nebuliser 10/24"	TS-NEBULIZER-15
20 µm Nebuliser 10/24"	TS-NEBULIZER-20
30 µm Nebuliser 10/24"	TS-NEBULIZER-30
40 µm Nebuliser 10/24"	TS-NEBULIZER-40
50 µm Nebuliser 10/24"	TS-NEBULIZER-50



Description	Part Number
35mm Multi Tool Connection	TS35-35
42mm Multi Tool Connection	TS35-42
54mm Multi Tool Connection	TS35-54
76mm Multi Tool Connection	TS35-76
88mm Multi Tool Connection	TS35-88
108mm Multi Tool Connection	TS35-108
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15mm & 22mm Bracket, Hanging	TP-820-20-25
28mm Bracket, Hanging	TP-820-32
42mm Bracket, Hanging	TP-820-50
54mm Bracket, Hanging	TP-820-63
76mm Bracket, Hanging	TC-820-73
88mm Bracket, Hanging	TC-820-90
108mm Bracket, Hanging	TC-820-115
168mm Bracket, Hanging	TC-820-168
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15mm Rubber Coated Hangers	TS-920-15
22mm Rubber Coated Hangers	TS-920-22
28mm Rubber Coated Hangers	TS-920-28
35mm Rubber Coated Hangers	TS-920-35
42mm Rubber Coated Hangers	TS-920-42
54mm Rubber Coated Hangers	TS-920-54
76mm Rubber Coated Hangers	TS-920-76
88mm Rubber Coated Hangers	TS-920-88
108mm Rubber Coated Hangers	TS-920-108
168mm Rubber Coated Hangers	TS-920-168
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15mm Bracket, Strut	TP-810-14-PK10
22mm & 28mm Bracket, Strut	TP-810-25-PK10
42mm Bracket, Strut	TP-810-40-PK10
54mm Bracket, Strut	TP-810-50-PK10
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Spacer Kit, 1"x 3"x1/2"thk	TP-SPACER-PK10
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Wire Hanger 15ft lengths (1/4" thread) "Use w/ Bracket, Strut"	TP-831-04-PK10
Wire Hanger 15ft lengths (3/8" Thread) "Use w/ Bracket, Hanging"	TP-831-06-PK10





INSTALLATION GUIDELINES

Cutting and Deburring: All pipes must be cut square using appropriate tools. Deburr both the inside and outside edges before assembly.

Lubricants: Do not use oil or grease. Only clean water or a mild soap solution can be used for easier insertion.

Insertion Depth: Mark the insertion depth visibly. Inspect each joint for correct alignment before pressing.

Pressing: Do not adjust connections after pressing.

PRESSING CLEARANCES AND MINIMUM DISTANCES

Minimum Spacing:

- 1 inch between fittings
- 2 inches from walls or obstructions

Larger Diameters: For diameters above 4 inches, additional spacing may be needed to accommodate pressing chains.

STORAGE AND HANDLING

Store all TruPress components in a clean, dry location protected from dust, moisture, and direct contact with carbon steel or dissimilar metals. Keep pipe ends capped until installation. Fittings and pipes should not be stored outdoors or in high-humidity environments to avoid oxidation.

MAINTENANCE AND SERVICE

Pressing equipment must be inspected and serviced regularly by an authorized repair center. Daily cleaning of tool jaws, drive rolls, and chains is required to prevent oxidation or slippage. Replace any damaged or worn parts immediately to ensure consistent press performance.

This technical submittal is intended to provide guidance for the selection, installation, and maintenance of TruPress stainless steel press systems. It must be used in conjunction with applicable local codes, standards, and engineering specifications.



TRUPRESS™

STAINLESS STEEL

About Applied System Technologies

AST was formed in 2005 to fill a substantial void in the market. Our driving force was a passion to provide a better solution than the black iron and copper plumbing products that were the industry standard for compressed air distribution. Our founders knew there had to be a better way. As we have grown, we continue to innovate, create better products, and hold fast to the personal attention we feel is central to our culture.



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