

SUBMITTAL SHEET

JOB NAME	ITEM TAG
JOB LOCATION	PART NUMBER
CONTRACTOR	DATE
ENGINEER APPROVAL	DATE

FULL PORT PRESS-TO-CONNECT BALL VALVE

P-200 Legend-Press™

Press-to-connect end connections are designed for installation onto ASTM B88 types K, L and M hard-drawn copper tubing. Coiled (annealed) soft copper tubing is not recommended, but can be used if ends are made round. See insertion depth chart below.

Deeper tubing sockets and dual O-rings at each press connection, provide extra stability during the pressing process as well as enhanced sealing.

Compatible with commercially-available VUS profile jaws

Oversized lever handle with pre-drilled tag hole is ideal for commercial applications

Sizes 1/2" to 1-1/4" Press x Press are also available with assembled extended T-handles and color-coded identification discs imprinted with the following: Red; "HOT" Blue; "COLD" and Purple; "RECLAIMED WATER" for insulated tubing applications.

Available in sizes; 1/2" to 4" in the Press x Press configuration, 1/2" to 2" in the MIP x Press, and FIP x Press configurations and 1/2" to 1-1/4" in the MIP Union x Press configuration.

Working Pressure, Non-Shock (PSI)

Cold working pressure (CWP):
 1/2" and 3/4": 600 psi
 1" and 1-1/4": 500 psi
 1-1/2" and 2": 400 psi

Saturated steam (WSP): Not suitable for steam service

Maximum service temp: 230 ° F

MATERIAL SPECIFICATION

PART	MATERIAL	SPECIFICATIONS
1 Ball	Chrome plated forged brass	ASTM B124 UNS C37700
2 Thrust washer	TFM PTFE	3M Dyneon*
3 Handle	Dacromet coated steel	ASTM A510 UNS G10060
4 End adapter	Forged brass	ASTM B124 UNS C37700
5 Seats (2)	TFM PTFE	3M Dyneon*
6 Handle nut	Dacromet coated steel with resin lock	ASTM A510 UNS G10060
7 Body	Forged brass	ASTM B124 UNS C37700
8 Stem	Chrome plated forged brass	ASTM B124 UNS C37700
9 Stem O-rings (2)	Fluoroelastomer	DuPont Viton**
10 Socket O-rings (4) [2 per Socket]	EPDM	Commercial grade
11 Anti-friction washer	TFM PTFE	3M Dyneon*

*Dyneon TFM is a registered trademark of the 3M Company.

**Viton is a registered trademark of DuPont

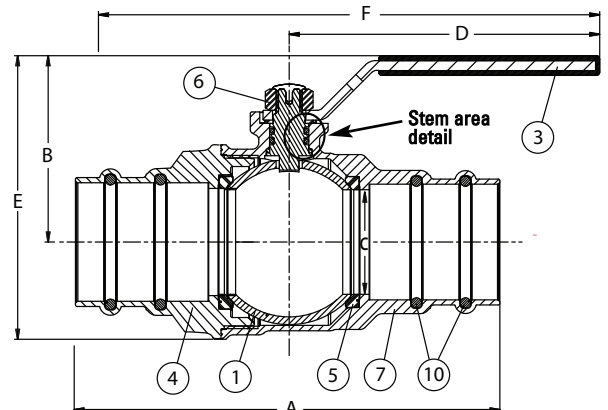
DIMENSIONS

Size	A	B	C	D	E	F
1/2"	3.90	1.43	0.59	3.04	2.05	5.00
3/4"	4.51	1.90	0.79	3.74	2.68	6.00
1"	4.77	2.06	1.00	3.74	3.01	6.13
1-1/4"	5.08	2.24	1.26	3.74	3.40	6.28
1-1/2"	5.83	2.77	1.58	5.38	4.15	8.30
2"	7.33	3.08	2.00	5.38	4.76	9.15

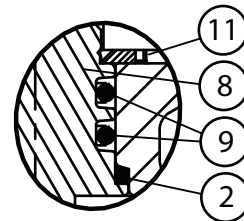


- NSF Certified to ANSI/NSF Standard 61-8 and Standard 61, Annex G
- Valve construction conforms to MSS SP-110; press-type end connections are currently excluded from this standard

- Threaded end connections conform to ANSI / ASME B1.20.1
- Manufactured in an ISO accredited facility



Legend-Press™
Cut-away view



Legend-Press™
Stem area detail

See P-200XL-C submittal for 2-1/2" to 4" sizes

Legend-Press™ Tubing Insertion Depth

Nominal Tubing Size:	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Insertion Depth: In.	1-3/8"	1-9/16"	1-9/16"	1-9/16"	1-3/4"	2-3/16"
MM	35	40	40	40	45	55

Note: These configurations are also available with assembled extended T-handle. The T-handle's width is 3.06" The overall height from the stem base to the top of the handle is 1.76" and the diameter is 1.28". At least 1.25" of insulation can be applied onto the valve's body and around the T-handle area without affecting the operation of the valve.

SUBMITTAL SHEET (Page 2)

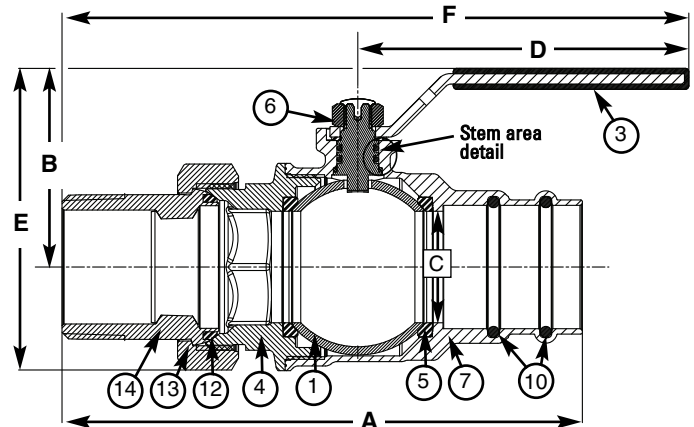
FULL PORT PRESS-TO-CONNECT BALL VALVE

P-200 Legend-Press™ Transition Connections



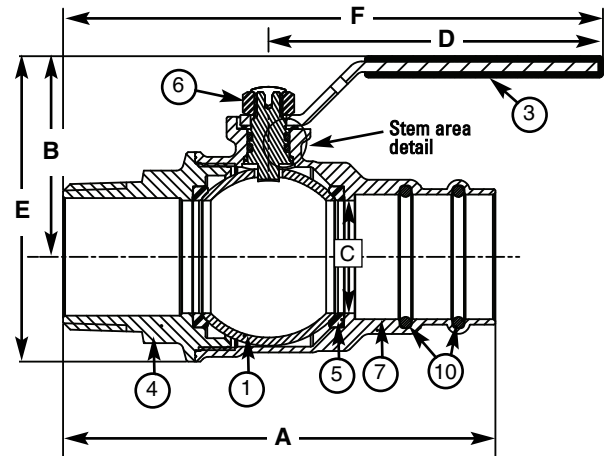
DIMENSIONS

Size	A	B	C	D	E	F
1/2" MIP x P	4.38	1.43	0.59	3.04	2.09	5.47
3/4" MIP x P	3.99	1.90	0.79	3.74	2.70	5.48
1" MIP x P	4.31	2.06	1.00	3.74	3.03	5.67
1-1/4" MIP x P	4.83	2.24	1.26	3.74	3.41	6.04
1-1/2" MIP x P	5.49	2.76	1.58	5.38	4.19	7.76
2" MIP x P	6.28	3.07	2.00	5.38	4.80	8.10
1/2" FIP x P	3.05	1.43	0.59	3.04	2.07	4.15
3/4" FIP x P	3.48	1.90	0.79	3.74	2.71	4.97
1" FIP x P	3.88	2.06	1.00	3.74	3.03	5.24
1-1/4" FIP x P	4.23	2.24	1.26	3.74	3.41	5.43
1-1/2" FIP x P	5.01	2.76	1.58	5.38	4.19	7.28
2" FIP x P	5.73	3.07	2.00	5.38	4.80	7.56
1/2" MIP union x P	4.38	1.43	0.59	3.04	2.09	5.47
3/4" MIP union x P	4.99	1.90	0.79	3.74	2.73	6.47
1" MIP union x P	5.29	2.06	1.00	3.74	3.07	6.65
1-1/4" MIP union x P	5.88	2.24	1.26	3.74	3.40	7.08



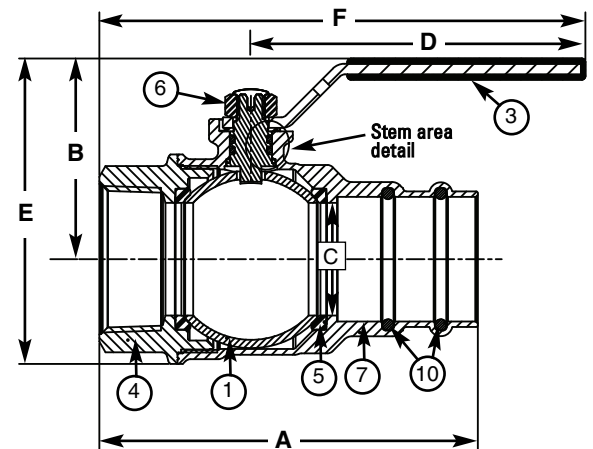
Legend-Press™ MIP Union x Press

Cut-away view



Legend-Press™ MIP x Press

Cut-away view



Legend-Press™ FIP x Press

Cut-away view

MATERIAL SPECIFICATION

PART	MATERIAL	SPECIFICATIONS
1 Ball	Chrome plated forged brass	ASTM B124 C37700
2 Thrust washer	TFM PTFE	3M Dyneon*
3 Handle	Dacromet coated steel	ASTM A510 UNS G10060
4 End adapter	Forged brass	ASTM B124 UNS C37700
5 Seats (2)	TFM PTFE	3M Dyneon*
6 Handle nut	Dacromet coated steel with resin lock	ASTM A510 UNS G10060
7 Body	Forged brass	ASTM B124 UNS C37700
8 Stem	Chrome plated forged brass	ASTM B124 UNS C37700
9 Stem O-rings (2)	Fluoroelastomer	DuPont Viton**
10 Socket O-rings (2) [2 per Socket]	EPDM	Commercial grade
11 Anti-friction washer	TFM PTFE	3M Dyneon*

UNION END CONNECTION ONLY

PART	MATERIAL	SPECIFICATIONS
12 Tailpiece seal	TFM PTFE	3M Dyneon*
13 Union nut	Forged brass	ASTM B124 UNS C37700
14 Union tailpiece	Forged brass	ASTM B124 UNS C37700

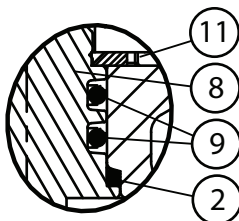
*Dyneon TFM is a registered trademark of the 3M Company.

**Viton is a registered trademark of DuPont

Legend-Press™ Tubing Insertion Depth

Nominal Tubing Size:	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Insertion Depth: In.	1-3/8"	1-9/16"	1-9/16"	1-9/16"	1-3/4"	2-3/16"
MM	35	40	40	40	45	55

Legend-Press™
Stem area detail



SUBMITTAL SHEET

JOB NAME	ITEM TAG
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LEAD-FREE FULL PORT PRESS-TO-CONNECT BALL VALVE

P-200NL Legend-Press™

Lead-free design is suitable for all no-lead potable water installations, in full compliance of all lead-free plumbing laws.

Press-to-connect end connections are designed for installation onto ASTM B88 types K, L and M hard-drawn copper tubing. Coiled (annealed) soft copper tubing is not recommended, but can be used if ends are made round. See insertion depth chart below.

Press-type end connections eliminate the need for soldering, reducing labor and material costs and eliminating the fire hazard associated with the process.

Deeper tubing sockets and dual O-rings at each connection, provide extra stability during the pressing process as well as enhanced sealing.

Compatible with commercially-available VUS profile jaws.

Oversized lever handle with pre-drilled tag hole is ideal for commercial plumbing applications.

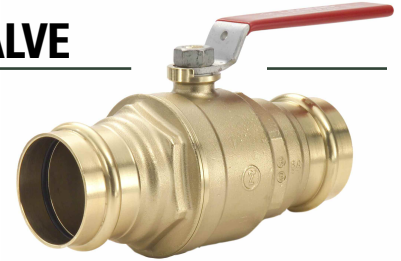
Available in sizes 1/2" to 2" in the Press x Press configuration.

Working Pressure, Non-Shock (PSI)

Cold working pressure (CWP):
 1/2" and 3/4": 600 p.s.i.
 1" and 1-1/4": 500 p.s.i.
 1-1/2" and 2": 400 p.s.i.

Saturated steam (WSP): Not suitable for steam service

Maximum service temp: 230 ° F



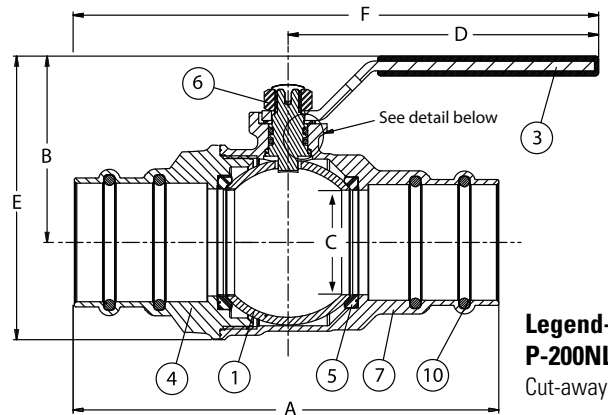
- Third-party tested and certified in compliance with U.S. Federal Public Law 111-380 (National lead-free plumbing law).

- NSF certified to ANSI / NSF Standard 61 Annex G: Meets NSF 372 lead content requirements.

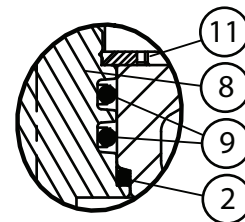
- Valve construction conforms to MSS SP-110; press-type end connections are currently excluded from this Standard

- Threaded end connections conform to ANSI / ASME B1.20.1

- Manufactured in an ISO accredited facility



Legend-Press™ P-200NL
Cut-away view



Legend-Press™ P-200NL
Stem area detail

MATERIAL SPECIFICATION		
PART	MATERIAL	SPECIFICATION
1 Ball	Chrome-plated lead-free forged brass	CW510L UNS C28500
2 Anti-friction thrust washer	TFM PTFE	3M Dyneon*
3 Handle	Dacromet coated steel	ASTM A510 UNS G10060
4 End adapter	Lead-free forged brass	CW510L UNS C28500
5 Seats (2)	TFM PTFE	3M Dyneon*
6 Handle nut	Dacromet coated steel with PVC resin lock	ASTM A510 UNS G10060
7 Body	Lead-free forged brass	CW510L UNS C28500
8 Stem	Chrome-plated lead-free forged brass	CW510L UNS C28500
9 Stem O-rings (2)	Fluoroelastomer	DuPont Viton**
10 Socket O-rings: 4 total	EPDM	Commercial grade
11 Anti-friction washer	TFM PTFE	3M Dyneon*

DIMENSIONS						
Size	A	B	C	D	E	F
† 1/2" Press x Press	3.90	1.43	0.59	3.04	2.05	5.00
† 3/4" Press x Press	4.51	1.90	0.79	3.74	2.68	6.00
† 1" Press x Press	4.77	2.06	1.00	3.74	3.01	6.13
† 1-1/4" Press x Press	5.08	2.24	1.26	3.74	3.40	6.28
1-1/2" Press x Press	5.83	2.77	1.58	5.38	4.15	8.30
2" Press x Press	7.33	3.08	2.00	5.38	4.76	9.15

Legend-Press™ Tubing Insertion Depth						
Nominal Tubing Size:	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Insertion Depth: In.	1-3/8"	1-9/16"	1-9/16"	1-9/16"	1-3/4"	2-3/16"
MM	35	40	40	40	45	55

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**Viton is a registered trademark of DuPont

† Note: These configurations are also available with assembled extended T-handle. The T-handle's width is 3.06". The overall height from the stem base to the top of the handle is 1.76" and the diameter is 1.28". At least 1.25" of insulation can be applied onto the valve's body and around the T-handle area without affecting the operation of the valve.

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JOB NAME	ITEM TAG
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LEAD-FREE FULL PORT PRESS-TO-CONNECT BALL VALVE

P-200NL Large Diameter Legend-Press™

Lead-free design is suitable for all no-lead potable water installations in full compliance of all lead-free plumbing laws.

Press-to-connect end connections are designed for installation onto ASTM B88 types K, L and M hard-drawn copper tubing. Annealed (soft) copper tubing is not recommended, but can be used if ends are made round. See insertion depth chart below.

Deeper tubing sockets at each connection provide extra stability during the pressing process.

Press-type end connections eliminate the need for soldering and brazing, reducing labor and material costs and eliminating the fire hazard associated with the process.

Large-diameter Press connections require copper-compatible pressing rings (commercially-available).

Oversized lever handle is ideal for commercial applications.

Strip gauge included, to verify a complete press.

Available in nominal sizes 2-1/2" to 4" in the Press x Press configuration.

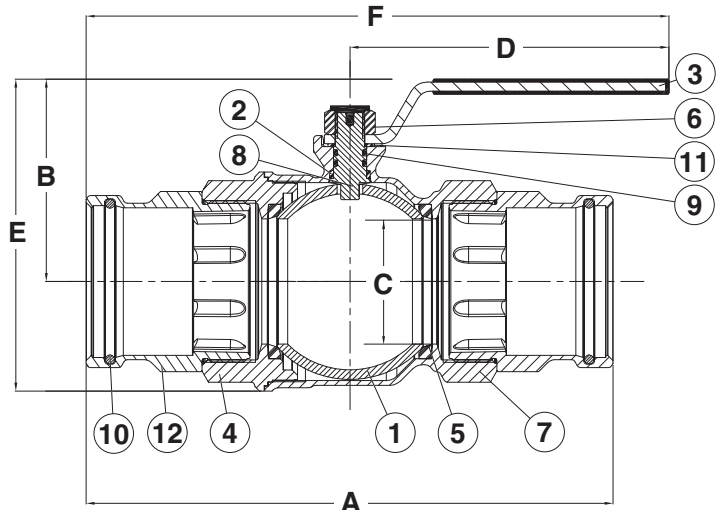
Working Pressure, Non-Shock (PSI)

Cold Working Pressure (CWP) 2-1/2" - 3": 400 p.s.i.
4": 300 p.s.i.

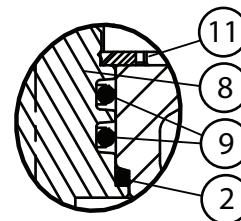
Saturated steam (WSP): Not suitable for steam service

Maximum service temp: 230° F

- Third-party tested and certified in compliance with U.S. Federal Public Law 111-380 (National lead-free plumbing law).
- Valve construction conforms to MSS SP-110; press-type end connections are currently excluded from this Standard
- NSF certified to ANSI / NSF Standard 61 Annex G: Meets NSF 372 lead content requirements.
- Manufactured in an ISO accredited facility



Legend-Press™ P-200NL (2-1/2" to 4")
Cut-away view



Legend-Press™
Stem area detail

MATERIAL SPECIFICATION		
PART	MATERIAL	SPECIFICATIONS
1 Ball	Chrome plated lead-free forged brass	CW 510L UNS C28500
2 Thrust washer	TFM PTFE	3M Dyneon*
3 Handle	Dacromet coated steel	ASTM A510 UNS G10060
4 End adapter	Lead-free forged brass	CW 510L UNS C28500
5 Seats (2)	TFM PTFE	3M Dyneon*
6 Handle nut	Dacromet coated steel with resin lock	ASTM A510 UNS G10060
7 Body	Lead-free forged brass	CW 510L UNS C28500
8 Stem	Chrome plated lead-free forged brass	CW 510L UNS C28500
9 Stem O-rings (2)	Fluoroelastomer	DuPont Viton**
10 Socket O-rings (2) [1 per Socket]	EPDM	Commercial grade
11 Anti-friction washer	TFM PTFE	3M Dyneon*
12 Press socket (2)	Lead-free forged brass	CW 510L UNS C28500

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**Viton is a registered trademark of DuPont

DIMENSIONS						
Size	A	B	C	D	E	F
2-1/2"	10.50	4.07	2.56	6.81	5.94	12.06
3"	11.31	4.28	3.15	6.81	6.63	12.56
4"	13.50	4.82	3.94	7.38	8.13	14.13

Legend-Press™ Tubing Insertion Depth			
Nominal Tubing Size:	2-1/2"	3"	4"
Insertion Depth: In.	2-3/16"	2-1/4"	2-3/8"
MM	55	58	60

See the P-200NL Legend-Press™ submittal sheet for 1/2" to 2" sizes

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FULL PORT PRESS-TO-CONNECT BALL VALVE

P-200 Large Diameter Legend-Press™

Press-to-connect end connections are designed for installation onto ASTM B88 types K, L and M hard-drawn copper tubing. Coiled (annealed) soft copper tubing is not recommended, but can be used if ends are made round. See insertion depth chart below.

Deeper tubing sockets at each connection provide extra stability during the pressing process

Compatible with commercially-available profile jaws

Oversized lever handle is ideal for commercial applications

Available in sizes 2-1/2" to 4" in the Press x Press configuration

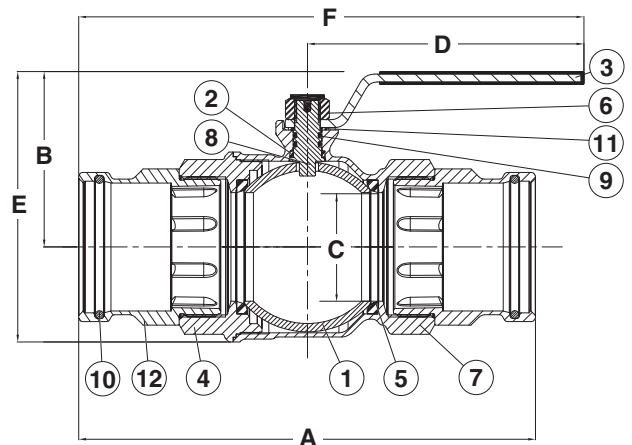
Working Pressure, Non-Shock (PSI)

Cold working pressure (CWP): 400 psi

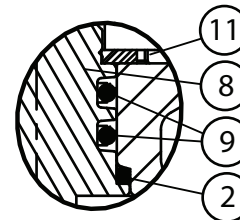
Saturated steam (WSP): Not suitable for steam service

Maximum service temp: 230° F

- Valve construction conforms to MSS SP-110; press-type end connections are currently excluded from this standard
- Manufactured in an ISO accredited facility



P-200 Legend-Press™ (2-1/2" to 4")
Cut-away view



Legend-Press™
Stem area detail

MATERIAL SPECIFICATION		
PART	MATERIAL	SPECIFICATIONS
1 Ball	Chrome plated forged brass	ASTM B124 UNS C37700
2 Thrust washer	TFM PTFE	3M Dyneon*
3 Handle	Dacromet coated steel	ASTM A510 UNS G10060
4 End adapter	Forged brass	ASTM B124 UNS C37700
5 Seats (2)	TFM PTFE	3M Dyneon*
6 Handle nut	Dacromet coated steel with resin lock	ASTM A510 UNS G10060
7 Body	Forged brass	ASTM B124 UNS C37700
8 Stem	Chrome plated forged brass	ASTM B124 UNS C37700
9 Stem O-rings (2)	Fluoroelastomer	DuPont Viton**
10 Socket O-rings (2) [1 per Socket]	EPDM	Commercial grade
11 Anti-friction washer	TFM PTFE	3M Dyneon*
12 Press socket	Forged brass	ASTM B124 UNS C37700

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DIMENSIONS						
Size	A	B	C	D	E	F
2-1/2"	10.50	4.07	2.56	6.81	5.94	12.06
3"	11.31	4.28	3.15	6.81	6.63	12.56
4"	13.50	4.82	3.94	7.38	8.13	14.13

Legend-Press™ Tubing Insertion Depth			
Nominal Tubing Size:	2-1/2"	3"	4"
Insertion Depth: In.	2-3/16"	2-1/4"	2-3/8"
MM	55	58	60

See the P-200 Legend-Press™ submittal sheet for 1/2" to 2" sizes