AHEAD OF THE FLOW®











NIBCO® Press System

Business-to-Business Solutions

Look to NIBCO for technology leadership.

The velocity with which e-business evolves demands that new products and services be continuously developed and introduced to keep our customers at the center of our business efforts.

NIBCO provides an entire suite of business-to-business solutions that is changing the way we interact with customers.



NIBCOpartner.comsm is an exclusive set of secure web applications that allow quick access to customer-specific information and online order processing. This self-service approach gives you 24/7 access to your order status putting you in total control of your business.

Real time information includes:

- Online order entry
- Viewable invoices & reports
- Inventory availability
- Current price checks
- Order status
- Online library of price sheets, catalogs & submittals



Electronic Data Interchange (EDI) makes it possible to trade business documents at the speed of light. This technology cuts the cost of each transaction by eliminating the manual labor and paperwork involved in traditional order taking. This amounts to cost-savings, increased accuracy and better use of resources.

With EDI, you can trade:

- Purchase orders
- PO Acknowledgements
- Invoices

- Product activity data
- Advanced ship notices
- Remittance advice



Vendor Managed Inventory (VMI), a sophisticated service for automated inventory management, reduces your overhead by transferring inventory management, order entry and forecasting to NIBCO. This is an on-going, interactive partnership with NIBCO.

Through automation, VMI brings results:

- Improves customer service
- Optimum inventory efficiencies
- Better forecasting

- Cuts transaction costs
- Peace of mind
- Relief from day-to-day management





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Quick and Easy

The NIBCO Press System is user friendly, quick and easy to install. Installation can be completed in less time than traditional solder, threaded, brazed or grooved copper systems. Significant time savings means tight budgets and deadlines are met while project delays and cost overruns are avoided.

Full System Product Offering

The NIBCO Press System is more than just 1/2" to 4" fittings. Our offering also includes the industry's widest and most specified range of ball, gate, globe, angle, check and butterfly valves in addition to a full line of NIBCO tools necessary to complete a total system installation.

Flameless

The NIBCO Press System is easier and safer to use because there is no flame, solder or flux required. Connections can even be made on a wet tube!

Reliable

With the NIBCO Press System, a watertight joint is formed between the EPDM seal and the crimped fitting or valve providing a permanent connection. Reliability you can count on ... NIBCO press fittings are backed by a 110-year-old company and a 50-year written guarantee.

Approvals, Standards and Performance

The NIBCO Press System has undergone extensive and rigorous internal and external testing and meets various worldwide, industry and governmental standards and codes. Compliant with the following except where otherwise noted: ASME 16.51 Performance • International Residential Code[®] (IRC) • International Plumbing Code[®] (IPC) • International Mechanical Code[®] (IMC) • Uniform Plumbing Code* (UPC) • Uniform Mechanical Code* (UMC) • State of Massachusetts (Plumbing) • City of LA (Plumbing and Hydronic/Chilled water).

*Uniform Plumbing Code and Uniform Mechanical Code are copyrighted publications of the International Association of Plumbing and Mechanical Officials.

Third-party certified to: IAPMO PS 117, Copper, Copper Alloy, Carbon Steel, and Stainless Steel Piping System with Press-Type and Nail-Type Connections ICC-ES LC1002, Press-Connection Fittings for Potable Water Tube and Radiant Heating Systems ½" thru 2" ASME B16.51, Copper and Copper Alloy Press-Connect Pressure Fittings NSF/ANSI 61, Drinking Water Systems Components—Health Effects NSF/ANSI 372, Drinking Water Systems Components—Lead Content.

All valves and fittings are manufactured under a Quality Management System conforming to the current version of ISO 9001 standards.

Applications

The NIBCO Press System can be used in new construction or repair work and is designed for potable water, HVAC and process water systems for commercial, industrial and residential applications.

Professional Appearance

The NIBCO Press System creates a clean joint without the mess of excess solder or discoloration.

Joint Integrity

The NIBCO Press System uses engineered tools, jaws and chains that are tested and approved to ensure a consistent, reliable crimp.



NIBCO pressystem Fittings





Applications Chart

Types of Service Fluids/Water	Comments	Pressure	Temperature	Compatible with EPDM Seal
Hot and Cold Potable Water		200 PSI	32°F to 250°F	•
Rainwater/Gray Water	Subject to local codes/authority having jurisdiction with appropriate precautions to prevent systems from freezing.	200 PSI	-20°F to 250°F	•
Chilled Water	Up to 50% Ethylene Glycol/Propylene Glycol solution appropriate for the application temperature range.	200 PSI	-20°F to 250°F	•
Hydronic Heating	Up to 50% Ethylene Glycol/Propylene Glycol solution appropriate for the application temperature range.	200 PSI	-20°F to 250°F	•
Cooling Water	Up to 50% Ethylene Glycol or Propylene Glycol Solution appropriate for the application temperature range	200 PSI	-20°F to 250°F	•

Gasses				
Compressed Air	Less than 25mg/m ³ Oil Content	200 PSI	Up to 140°F	•
Oxygen - O ₂ (non-medical)	Keep Oil and Fat Free/Non-Liquid O ₂	140 PSI	Up to 140°F	•
Nitrogen - N ₂		200 PSI	Up to 140°F	•
Argon	Welding Use	200 PSI	Ambient	•
Hydrogen - H ₂		125 PSI	0°F to 250°F	•
Vacuum		Max 29.2 inches of Mercury -Hg	Up to 140°F	•
Carbon Dioxide - CO ₂	Dry	200 PSI	Up to 140°F	•



ADAPTERS

PC603 Adapter P x F – Wrot

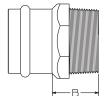
NOM. SIZE	approx. Net Wt./LBS.	DIM. A INCHES
1/2	.103	13/32
1/2 x 3/8	.081	21/32
1/2 x 3/4	.151	31/32
3/4	.158	²⁷ /32
3/4 x 1/2	.153	²⁵ /32
1	.237	¹⁵ /16
1 x 1/2	.172	3/4
1 x 3/4	.217	¹³ / ₁₆
1 x 1 1/4	.436	1 ³ /16
1 1/4	.372	1 ¹ /16
1 1/4 x 1	.359	1 ¹ /16
1 1/4 x 1 1/2	.425	17/32
1 1/2	.518	1 ¹ /16
1 1/2 x 1 1/4	.515	1
2	.672	1
2 1/2	1.222	1 ¹³ /32
3	1.756	1 ²³ /32
4	3.238	1 ⁷ /8



Extended Adapter FTG x F – Wrot

NOM. SIZE	APPROX. NET WT./LBS.	DIM. B INCHES
1/2 x 3/8	0.064	1 17/32
1/2	0.096	1 ³ / ₄
1/2 x 3/4	0.132	1 ²⁷ / ₃₂
3/4 x 1/2	0.107	1 ²⁵ / ₃₂
3/4	0.129	1 ²⁷ / ₃₂
1 x 1/2	0.146	2
1	0.220	2
1 1/4 x 1	0.193	2 3/16
1 1/4	0.289	2 3/16
1 1/2	0.438	2 9/16
2	0.633	2 15/16

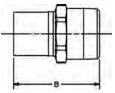




PC604 Adapter P x M – Wrot

NOM. SIZE	APPROX. NET WT./LBS.	DIM. B INCHES
1/2	.103	7/8
1/2 x 3/8	.105	²⁷ / ₃₂
1/2 x 3/4	.191	11/4
3/4	.180	1 ¹ /16
3/4 x 1/2	.189	¹³ / ₃₂
_ 1	.255	1 ¹³ /32
1 x 3/4	.253	1 ¹ / ₃₂
1 x 1 1/4	.457	1 ¹⁷ /32
1 1/4	.467	1 ¹³ /32
1 1/4 x 1	.335	1 ³ /16
1 1/4 x 1 1/2	.537	1 ¹ / ₂
1 1/2	.696	1 ¹ / ₂
1 1/2 x 1 1/4	.603	1 ³ /8
2	.856	1 ⁷ /16
2 1/2	1.322	1 ²⁷ /32
3	2.104	21/8
4	3.298	29/32



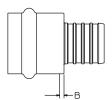


PC604-2 Extended Adapter FTG x M – Wrot

NOM. SIZE	APPROX. NET WT./LBS.	DIM. B INCHES
1/2 x 3/8	0.056	13/4
1/2	0.101	1 15/16
1/2 x 3/4	0.145	21/16
3/4 x 1/2	0.100	1 ¹⁵ /16
3/4	0.136	21/16
1 x 3/4	0.175	21/16
1	0.234	27/32
1 1/4	0.408	217/32
1 1/2	0.530	27/8
2	0.782	311/32

ADAPTERS (Cont.)



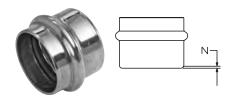


PC604-P

Adapter PEX x P - Wrot

NOM. SIZE	APPROX. NET WT./LBS.	DIM. B INCHES
1/2 x 1/2	.055	1/8
1/2 x 3/4	.108	7/32
3/4 x 1/2	.057	3/32
3/4 x 3/4	.108	5/32
1 x 1	.148	5/32

CAPS



PC617 Cap P – Wrot

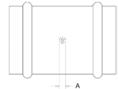
NOM. SIZE	APPROX. NET WT./LBS.	DIM. N INCHES
1/2	.046	5/32
3/4	.087	5/32
1	.125	1/8
1 1/4	.171	1/8
1 1/2	.314	³ /16
2	.493	³ /16
2 1/2	.476	7/32
3	.713	7/32
4	1.491	1/4



AHEAD OF THE FLOW®

COUPLINGS

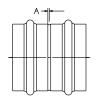




PC600-DS Coupling P x P — Wrot

NOM. SIZE	APPROX. NET WT./LBS.	DIM. A INCHES
1/2	.083	3/16
3/4	.157	5/32
1	.198	5/32
1 1/4	.271	5/32
1 1/2	.530	3/16
2	.691	5/32
2 1/2	.669	1/8
3	.979	1/8
4	2.134	7/32



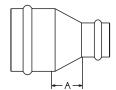


PC600-RS Coupling P x P – Wrot

NOM. SIZE	APPROX. NET WT./LBS.	DIM. A INCHES
2 1/2	.688	1/8
3	.979	1/8
4	2.134	1/4

COUPLINGS (Cont.)

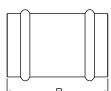




PC600-R
Reducing Coupling P x P – Wrot

	1 0	
NOM. SIZE	APPROX. NET WT./LBS.	DIM. A INCHES
3/4 x 1/2	.121	9/32
1 x 1/2	.139	⁷ /16
1 x 3/4	.184	13/32
1 1/4 x 3/4	.245	⁹ /16
1 1/4 x 1	.231	1/2
1 1/2 x 3/4	.382	15/32
1 1/2 x 1	.370	13/32
1 1/2 x 1 1/4	.399	1/4
2 x 3/4	.516	²⁹ / ₃₂
2 x 1	.552	11/16
2 x 1 1/4	.570	11/16
2 x 1 1/2	.662	⁷ /16
2 1/2 x 1	.620	31/32
2 1/2 x 1 1/4	.644	1
2 1/2 x 1 1/2	.678	23/32
2 1/2 x 2	.699	11/32
3 x 1 1/2	.956	11/16
3 x 2	1.032	²³ / ₃₂
3 x 2 1/2	.951	1/2
4 x 2	1.949	1 ⁵ / ₃₂
4 x 2 1/2	1.807	1
4 x 3	1.960	²⁷ / ₃₂



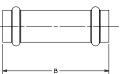


PC601 (No Stop) Repair Coupling P x P — Wrot

NOM. SIZE	APPROX. NET WT./LBS.	DIM. B INCHES
1/2	.082	$1^{3}/_{4}$
3/4	.157	21/4
1	.190	21/4
1 1/4	.271	$2^{15}/_{32}$
1 1/2	.511	3 11/32
2	.691	3 5/8
2 1/2	.669	2 15/16
3	.979	3 5/16
4	1.878	4 5/16

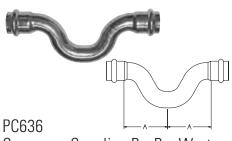
COUPLINGS (Cont.)





PC601L Extended Repair Coupling P x P

NOM. SIZE	APPROX. NET WT./LBS.	DIM. B INCHES
1/2	0.1250	2 15/16
3/4	0.2200	3 3/8
1	0.3050	3 3/4
1 1/4	0.4090	4 1/8
1 1/2	0.7150	4 3/4
2	1.0230	5 ⁵ /16

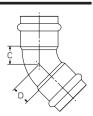


Crossover Coupling $P \times P - Wrot$

NOM. SIZE	APPROX. NET WT./LBS.	DIM. A INCHES
1/2	.222	$2^{1}/_{64}$

ELBOWS

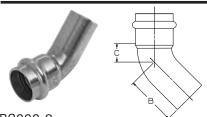




PC606 45° Elbow P x P – Wrot

NOM. SIZE	APPROX. NET WT./LBS.	DIM. C INCHES	DIM. D INCHES
1/2	.092	3/8	3/8
3/4	.181	1/2	1/2
1	.251	5/8	5/8
1 1/4	.403	²⁵ / ₃₂	²⁵ / ₃₂
1 1/2	.666	¹⁵ /16	¹⁵ /16
2	1.096	13/16	1 ³ /16
2 1/2	1.041	²⁹ / ₃₂	²⁹ / ₃₂
3	1.536	11/8	11/8
4	3.375	111/16	111/16

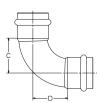
ELBOWS (Cont.)



PC606-2 45° Elbow Ftg x P – Wrot

NOM. SIZE	approx. Net WT/LBS.	DIM. B INCHES	DIM. C INCHES
1/2	.094	$1^{5}/_{32}$	⁷ /16
3/4	.171	1 ¹³ / ₃₂	17/32
1	.248	1 ¹⁷ /32	⁹ /16
1 1/4	.368	13/4	¹¹ / ₁₆
1 1/2	.673	25/16	¹³ / ₁₆
2	1.098	$2^{5}/8$	1
2 1/2	1.050	23/16	²⁹ / ₃₂
3	1.526	$2^{19}/32$	1 ⁵ / ₃₂
4	3.284	$3^3/_{32}$	1 ¹⁷ /32

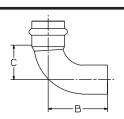




PC607 90° Elbow P x P – Wrot

NOM. SIZE	APPROX. NET WT./LBS.	DIM. C INCHES	DIM. D INCHES
1/2	.110	²³ / ₃₂	²³ / ₃₂
3/4	.223	13/32	$1^3/_{32}$
3/4 x 1/2	.201	1 ¹ /32	$1^{5}/_{32}$
1	.331	1 ⁷ / ₁₆	1 ⁷ / ₁₆
1 1/4	.528	$1^{27}/_{32}$	$1^{27}/_{32}$
1 1/2	.895	$2^{7}/_{32}$	$2^7/32$
2	1.562	215/16	215/16
2 1/2	1.224	1 ⁵ /8	1 ⁵ /8
3	1.900	2	2
4	3.935	215/32	$2^{15}/32$

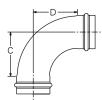




PC607-2 90° Elbow Ftg x P – Wrot

NOM. SIZE	APPROX. NET WT/LBS.	DIM. B INCHES	DIM. C INCHES
1/2	.110	1 ⁵ /8	²⁵ / ₃₂
3/4	.219	27/32	1 ¹ / ₁₆
1	.319	21/2	1 13/32
1 1/4	.490	33/32	1 ⁷ /8
1 1/2	.871	315/16	27/32
2	1.622	4 ¹⁷ / ₃₂	2 ²⁹ /32
2 1/2	1.356	$3^7/_{32}$	1 19/32
3	2.065	313/16	2
4	3.920	$4^{3}/_{4}$	23/8

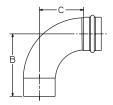




PC607-LT
90° Long Radius Elbow
P x P – Wrot

NOM. SIZE	APPROX. NET WT/LBS.	DIM. C INCHES	DIM. D INCHES
2 1/2	2.066	311/16	311/16
3	2.810	$4^{1}/_{32}$	$4^{1}/_{32}$
4	5.696	5 ¹ / ₄	5 ¹ / ₄

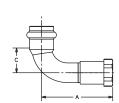




PC607-2-LT 90° Long Radius Elbow Ftg x P - Wrot

NOM. SIZE	APPROX. NET WT/LBS.	DIM. B INCHES	DIM. C INCHES
2 1/2	2.114	57/32	311/16
3	3.037	$5^{3}/_{4}$	41/32

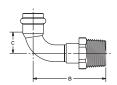




PC607-3 90° Elbow P x F - Wrot

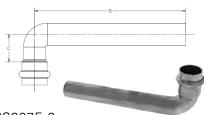
NOM. SIZE	APPROX. NET WT/LBS.	DIM. A INCHES	DIM. C INCHES
1/2	.191	21/2	11/2
1/2 x 3/8	.148	$2^{7}/_{32}$	11/2
1/2 x 3/4	.243	211/16	11/2
3/4	.361	$3^3/_{32}$	2
3/4 x 1/2	.321	213/16	13/64
1	.513	$3^{15}/_{32}$	1 13/32
1 1/4	.892	43/16	127/32
1 1/2	1.314	55/64	27/32
2	1.891	$5^{21}/_{32}$	215/16





PC607-4 90° Elbow P x M - Wrot

NOM. SIZE	APPROX. NET WT/LBS.	DIM. B INCHES	DIM. C INCHES
1/2	.183	29/32	11/2
1/2 x 3/4	.245	$2^{21}/_{32}$	11/2
3/4	.373	3	1 ¹ / ₁₆
3/4 x 1/2	.340	31/16	11/16
1	.521	33/8	113/32
1 1/4	.926	41/32	$1^{27}/_{32}$
1 1/2	1.433	$4^{29}/_{32}$	$2^7/32$
2	2.080	5 ²¹ / ₃₂	2 ²⁹ / ₃₂



PC607E-2 Extended Elbow P x FTG – Wrot

NOM. SIZE	approx.	DIM. B	DIM. C
	Net WT/LBS.	INCHES	INCHES
3/4	.407	6	13/32



ELBOWS (Cont.)



PC705-D Vent Elbow P x P – Forged Brass

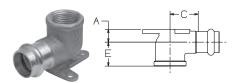
NOM. SIZE	APPROX. NET WT. LBS.			
1/2	.010	19/32	19/32	9/16
3/4	.010	3/4	3/4	11/16





PC605 Stiffener – Wrot

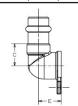
NOM.	SIZE	APPROX. NET WT. LBS.
3/4		.043



PC707-3-5-LF 90° Drop Elbow P x F – Cast *Lead Free

NOM. SIZE	APPROX. NET WT. LBS.		NENSIC INCHES C	
1/2	.252	17/32	7/8	²⁷ / ₃₂
3/4	.588	11/16	11/4	31/32



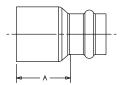


PC707-3-5-A Hi-Ear Elbow P x F — Cast *Lead Free

NOM. SIZE	approx.	DIM. C	DIM. E
	Net WT/LBS.	INCHES	INCHES
1/2	.192	7/8	²⁷ / ₃₂

FITTING REDUCERS





NOM. SIZE	APPRUX. NET WT/LBS.	DIM. A INCHES
1/2	.610	21/32
3/4 x 1/2	.092	1 ⁷ / ₁₆
3/4	.126	31/32
1 x 1/2	.133	1 ⁷ / ₁₆
1 x 3/4	.151	$1^9/_{32}$
1	.162	11/8
1 1/4 x 3/4	.178	11/2
1 1/4 x 1	.181	1 ⁷ /16
1 1/4	.215	1 ³ / ₁₆
1 1/2 x 1/2	.243	23/32
1 1/2 x 3/4	.248	$1^{31}/_{32}$
1 1/2 x 1	.259	1 ²⁷ / ₃₂
1 1/2 x 1 1/4	.286	1 ²⁹ / ₃₂
1 1/2	.382	1 ⁵ / ₁₆
2 x 1/2	.394	21/2
2 x 3/4	.425	$2^{7}/_{16}$
2 x 1	.406	21/4
2 X 1 1/4	.420	$2^{3}/_{16}$
2 x 1 1/2	.513	2
2	.619	1 ⁹ / ₁₆
2 1/2 x 1	.707	21/2
2 1/2 x 1 1/4	.776	29/16
2 1/2 x 1 1/2	.840	27/16
2 1/2 x 2	.839	2
3 x 1 1/4	.882	213/16
3 x 1 1/2	1.055	213/16
3 x 2	1.084	23/16
3 x 2 1/2	.820	21/4
4 x 2	1.832	35/8
4 x 2 1/2	1.837	$3^{1}/_{32}$
4 x 3	2.013	31/32

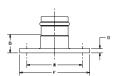


PC607-2EW Stub-Out F x S

APPROX. NET WT/LBS.	DIM. A INCHES
.360	35/8
.520	315/16
.740	6 ¹ / ₁₆
	.360 .520

FLANGES





	APPROX. NET WT.	D	IMENSION INCHES		
NOM. SIZE	LBS.	В	F	G	W
1	1.428	1 ⁵ / ₃₂	$4^{1}/_{4}$	1/4	$3^{1}/_{8}$
1 1/4	1.632	1 ⁵ / ₁₆	$4^{5}/_{8}$	1/4	$3^{1}/_{2}$
1 1/2	2.186	17/16	5	⁵ / ₁₆	$3^{7}/8$
2	3.352	111/16	6	3/8	$4^{3}/_{4}$

NOTE: Maximum pressure 105 PSI CWP, 90 PSI at 250°F. Use in U.S. drinking water applications is prohibited after January 3, 2014.







PC641 S= Companion Flange P x Flange - Wrot

NOM. SIZE	approx. Net Wt. LBS.	DIN A	MENSIONS INCHES B	S C
2 1/2	6.418	¹⁹ / ₃₂	$2^{25}/_{32}$	⁵ / ₈
3	7.409	$^{3}/_{4}$	$2^{15}/_{16}$	21/32
4	10.920	²⁹ / ₃₂	$3^{3}/_{8}$	27/32
NOM. SIZE	D D	IMENSIOI E	NS INCHES	S G
2 1/2	3/4	$5^{1}/_{2}$	7	3/,
	/ 4	0/2	,	/ 4
3	13/16	6	71/2	3/4

NOTE: 4" requires (8) "G" holes equally spaced. NOTE: Mates with ANSI Class 125/150 flanges.

WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

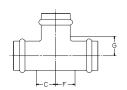
Visit our website for the most current information.

TEES

PC611 Tee P x P x P – Wrot

166 LXLXL - I	/۷/01			
	APPROX.	DIN	/ENSIO	NS
NOM. SIZE	NET WT. LBS.	С	INCHES F	G
1/2	.176	¹¹ / ₁₆	¹¹ / ₁₆	1/2
1/2 x 1/2 x 3/4	.314	15/32	1 ⁵ / ₃₂	5/8
1/2 x 1/2 x 1 1/2 x 1/2 x 1	.491	17/32	17/32	7/8
3/4	.320	3/4	3/4	9/16
3/4 x 1/2 x 1/2	.281	3/4	11/8	11/16
3/4 x 1/2 x 3/4	.320	23/32	15/32	5/8
3/4 x 3/4 x 1/2	.276	19/32	19/32	5/8
3/4 x 3/4 x 1	.461	13/32	1 ³ / ₃₂	29/32
1	.501	7/8	7/8	29/32
1 x 1/2 x 3/4	.400	27/32	25/32	1 ⁵ / ₁₆
1 x 1/2 x 1	.513	13/16	15/32	27/32
1 x 3/4 x 1/2	.440	13/16	11/16	15/32
1 x 3/4 x 3/4	.459	3/4	29/32	13/16
1 x 3/4 x 1	.578	13/16	11/16	7/8
1 x 1 x 1/2	.474	7/8	7/8	17/32
1 x 1 x 3/4	.388	27/32	27/32	11/16
1 x 1 x 1 1/4	.723	1 ¹ /8	1 ¹ /8	7/8
1 1/4	.759	1	1	29/32
1 1/4 x 1/2 x 11/4	.690	1	1	1 ⁵ /8
1 1/4 x 1 x 1/2	.674	1 ⁵ /8	1	11/4
1 1/4 x 3/4 x 1/2	.682	19/16	1	1 ⁵ / ₁₆
1 1/4 x 3/4 x 3/4	.565	11/32	¹³ /16	19/32
1 1/4 x 3/4 x 1	.709	17/16	19/32	1
1 1/4 x 3/4 x 1 1/4	.698	1	1 ⁵ / ₁₆	1
1 1/4 x 1 x 3/4	.753	²⁷ /32	1 ³ / ₁₆	113/32
1 1/4 x 1 x 1	.725	31/32	17/32	19/32
1 1/4 x 1 1/4 x 1/2	.750	1	1	1 ¹⁷ /32
1 1/4 x 1 1/4 x 3/4	.589	²³ / ₃₂	23/32	¹⁵ /16
1 1/4 x 1 1/4 x 1	.690	1	1	11/4
1 1/2	1.179	¹⁵ /16	¹⁵ /16	13/32
1 1/2 x 1/2 x 1 1/2	1.263	²⁷ / ₃₂	129/32	1
1 1/2 x 3/4 x 3/4	1.101	²⁹ / ₃₂	113/16	13/4
1 1/2 x 1 x 3/4	1.217	¹⁵ /16	13/4	1 13/16
1 1/2 x 1 x 1	1.105	¹³ / ₁₆	111/16	19/16
1 1/2 x 1 x 1 1/2			1 ⁵ /8	
1 1/2 x 1 1/4 x 3/4				
1 1/2 x 1 1/4 x 1	1.105		119/32	
1 1/2 x 1 1/4 x 1 1/4	1.160	¹⁵ /16		119/32
1 1/2 x 1 1/2 x 1/2	1.209	¹⁵ /16	¹⁵ /16	131/32
1 1/2 x 1 1/2 x 3/4	1.070	¹⁵ /16	¹⁵ /16	113/16
1 1/2 x 1 1/2 x 1	1.204		¹⁵ /16	1 19/32
1 1/2 x 1 1/2 x 1 1/4		7/8	7/8	19/16
2	1.771			
2 x 1/2 x 2	1.663			
2 x 1 x 1	1.764			
		,	, .	,

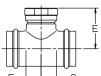




	rox. Dimensions Wt. Inches S. C F G
2 x 1 x 2	1.564 13/8 23/32 113/32
2 x 1 1/4 x 1 1/4	1.471 111/32 21/16 21/8
2 x 1 1/2 x 3/4	1.542 111/32 129/32 21/4
2 x 1 1/2 x 1	1.546 1 ³ / ₈ 1 ²⁹ / ₃₂ 2 ¹ / ₄
2 x 1 1/2 x 1 1/4	1.543 1 ³ / ₈ 1 ²⁹ / ₃₂ 2 ⁵ / ₃₂
2 x 1 1/2 x 1 1/2	1.670 1 ¹ / ₈ 1 ⁹ / ₁₆ 1 ¹³ / ₃₂
2 x 1 1/2 x 2	1.787 11/2 13/16 123/32
2 x 2 x 1/2	1.576 1 ³ / ₈ 1 ³ / ₈ 2 ¹³ / ₃₂
2 x 2 x 3/4	1.573 1 ³ / ₈ 1 ³ / ₈ 2 ¹ / ₄
2 x 2 x 1 2 x 2 x 1 1/4	1.530 ²⁹ / ₃₂ ²⁹ / ₃₂ 1 ¹¹ / ₁₆ 1.576 1 ¹ / ₄ 1 ¹ / ₄ 2 ¹ / ₈
2 x 2 x 1 1/2	$\frac{1.370 + 1/4 + 1/4 + 2/8}{1.770 + 1^3/32 + 1^3/32 + 1^1/2}$
2 1/2	2.082 19/16 19/16 17/8
2 1/2 x 3/4 x 2 1/2	2.294 1 ⁵ / ₈ 2 ⁷ / ₈ 1 ¹³ / ₁₆
2 1/2 x 1 x 2 1/2	2.004 11/2 21/2 13/4
2 1/2 x 1 1/4 x 2 1/2	
2 1/2 x 1 1/2 x 2 1/2	
2 1/2 x 2 x 3/4	2.934 113/16 2 215/16
2 1/2 x 2 x 1	2.907 17/8 2 23/4
2 1/2 x 2 x 1 1/4	2.954 111/16 2 29/16
2 1/2 x 2 x 1 1/2	2.976 13/4 2 215/16
2 1/2 x 2 x 2	3.046 113/16 2 21/4
2 1/2 x 2 x 2 1/2	2.150 113/16 2 17/8
2 1/2 x 2 1/2 x 1/2	2.117 121/32 121/32 31/4
2 1/2 x 2 1/2 x 3/4	2.011 19/16 19/16 215/16
2 1/2 x 2 1/2 x 1	2.010 111/16 111/16 23/4
2 1/2 x 2 1/2 x 1 1/4	
2 1/2 x 2 1/2 x 1 1/2 2 1/2 x 2 1/2 x 2	2.966 1 ¹³ / ₁₆ 1 ¹³ / ₁₆ 2 ¹ / ₂ 2.957 1 ³ / ₄ 1 ³ / ₄ 2 ¹ / ₄
2 1/2 x 2 1/2 x 2 3	3.122 1 ¹³ / ₁₆ 1 ¹³ / ₁₆ 2 ¹ / ₃₂
3 x 3/4 x 3	$\frac{3.12217/1617/162/32}{3.04917/831/223/16}$
3 x 1 x 3	$3.043 1/8 3^3/16 2^3/16$
3 x 1 1/4 x 3	2.986 1 ¹³ / ₁₆ 2 ⁷ / ₈ 2 ³ / ₁₆
3 x 1 1/2 x 3	3.811 1 ⁷ / ₈ 2 ¹⁵ / ₁₆ 2 ³ / ₁₆
3 x 2 x 2	3.829 2 211/16 23/4
3 x 2 x 2 1/2	3.761 113/16 213/16 21/2
3 x 2 x 3	3.866 113/16 211/16 23/16
3 x 2 1/2 x 2	3.081 17/8 27/16 213/16
3 x 2 1/2 x 2 1/2	3.010 113/16 215/32 21/2
3 x 2 1/2 x 3	3.194 113/16 215/32 23/16
3 x 3 x 1/2	2.945 17/8 17/8 31/2
3 x 3 x 3/4	2.941 17/8 17/8 31/2
3 x 3 x 1	2.987 113/16 113/16 31/4
3 x 3 x 1 1/4	2.957 1 ⁷ / ₈ 1 ⁷ / ₈ 2 ¹⁵ / ₁₆
3 x 3 x 1 1/2	3.056 17/8 17/8 213/16

	APPROX. NET WT.	DIMENSIONS INCHES		
NOM. SIZE	LBS.	С	F	G
3 x 3 x 2	3.145	17/8	1 ⁷ /8	211/16
3 x 3 x 2 1/2	3.034	113/16	113/16	$2^{1}/_{2}$
4	7.169	23/8	23/8	217/32
4 x 2 x 4	7.069	23/8	$4^{1}/_{32}$	$2^{23}/_{32}$
4 x 2 1/2 x 4	6.984	23/8	$3^{25}/_{32}$	$2^{23}/_{32}$
4 x 3 x 2	6.965	23/8	39/16	$3^{3}/_{4}$
4 x 3 x 2 1/2	6.990	23/8	39/16	$3^{29}/_{32}$
4 x 3 x 3	7.085	23/8	39/16	$3^{1}/_{2}$
4 x 3 x 4	6.993	23/8	3 ²³ / ₃₂	31/8
4 x 4 x 1/2	4.328	23/8	$2^{3}/8$	$4^{15}/_{32}$
4 x 4 x 3/4	4.415	1 ⁷ /8	1 ⁷ /8	315/16
4 x 4 x 1	4.414	23/8	$2^{3}/8$	$4^{5}/_{32}$
4 x 4 x 1 1/4	4.730	23/8	$2^{3}/8$	$4^{1}/_{32}$
4 x 4 x 1 1/2	7.144	23/8	$2^{3}/8$	$3^{23}/_{32}$
4 x 4 x 2	7.094	23/8	$2^{3}/8$	$3^{31}/_{32}$
4 x 4 x 2 1/2	6.925	23/8	23/8	3 ²⁹ / ₃₂
4 x 4 x 3	7.083	23/8	23/8	31/2





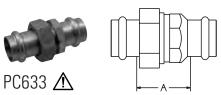
Tee P x P x F – Wrot

ICC I A I A I	VVIOL			
NOM. SIZE	APPROX NET WT LBS.	. DIN E	ЛENSIO INCHES F	
1/2	.257	131/32	²³ / ₃₂	23/32
3/4	.434	211/32	²⁵ / ₃₂	²⁵ / ₃₂
3/4 x 3/4 x 1/4	.385	23/32	²³ / ₃₂	21/32
3/4 x 3/4 x 1/2	.258	$2^{5}/_{32}$	19/32	19/32
1 x 1 x 1/2	.541	211/16	7/8	7/8
1 x 1 x 3/4	.516	2 ²⁷ /32	21/32	21/32
1 1/4 x 1 1/4 x 1/2	.832	33/16	²³ / ₃₂	²³ / ₃₂
1 1/4 x 1 1/4 x 3/4	.679	25/8	11/16	¹¹ /16
1 1/2 x 1 1/2 x 1/2	1.294	$3^9/_{32}$	¹⁵ /16	¹⁵ /16
1 1/2 x 1 1/2 x 3/4	1.351	$3^{3}/_{8}$	31/32	31/32
2 x 2 x 1/2	1.699	313/16	1 13/32	1 13/32
2 x 2 x 3/4	1.693	$4^{5}/_{32}$	13/8	13/8
2 1/2 x 2 1/2 x 3/4	1.049	$2^{15}/_{32}$	¹¹ / ₁₆	¹¹ / ₁₆
2 1/2 x 2 1/2 x 2	1.925	$3^{7}/_{32}$	$1^9/_{32}$	$1^9/_{32}$
3 x 3 x 3/4	1.435	$2^{3}/_{4}$	11/16	11/16
3 x 3 x 2	2.097	$3^{15}/_{32}$		
4 x 4 x 3/4	2.786	$3^{1}/_{4}$	11/16	
4 x 4 x 2	3.675	4	$1^9/_{32}$	



AHEAD OF THE FLOW®

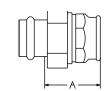
UNIONS



Union P x P – Wrot

NOM. SIZE	APPROX. NET WT./LBS.	DIM. A INCHES
1/2	.383	15/16
3/4	.527	19/32
1	.804	111/32
1 1/4	1.107	119/32
1 1/2	1.703	121/32
2	2.368	1 ²⁷ / ₃₂

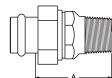




PC633-3 ⚠ Union P x F – Wrot

NOM. SIZE	approx. Net Wt./LBS.	DIM. A INCHES
1/2	.374	1 ⁷ / ₁₆
3/4	.527	117/32
1	.841	15/8
1 1/4	1.178	1 ¹⁵ / ₁₆
1 1/2	1.610	$1^{29}/_{32}$
2	2.445	25/32



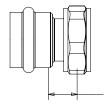


PC633-4 ⚠
Union P x M − Wrot

NOM. SIZE	APPROX. NET WT./LBS.	DIM. A INCHES
1/2	.386	1 ¹³ / ₁₆
3/4	.567	$1^{29}/_{32}$
1	.842	25/32
1 1/4	1.316	$2^{25}/64$
1 1/2	1.756	$2^{11}/_{32}$
2	2.789	249/64

UNIONS (Cont.)





PC634 <u>↑</u>
Tailpiece P x F BSP

NOM. SIZE	APPROX. NET WT./LBS.	DIM. A INCHES	
1/2 X 1	0.1840	⁷ / ₁₆	
3/4 X 1	0.2230	⁷ / ₁₆	
1 X 1	0.2320	5/8	
1 X 1 1/4	0.3530	5/8	

ACCESSORIES



EPDM Seal (prior design)

SIZE	PART No.
1/2	T048052 PP
3/4	T048054 PP
1	T048056 PP
1 1/4	T048058 PP
1 1/2	T048060 PP
2	T048062 PP
2 1/2	T048064 PP
3	T048066 PP
4	T048070 PP

NOTE: do NOT use with PC-FP600A-LF



EPDM Seal (leak detection)

LI DIVI O	cai (ioak ao	tootion,
SIZE	PART No.	
1/2	T048352 PP	Leak Detect
3/4	T048354 PP	Leak Detect
1	T048356 PP	Leak Detect
1 1/4	T048358 PP	Leak Detect
1 1/2	T048360 PP	Leak Detect
2	T048362 PP	Leak Detect

NOTE: Do NOT use with PC-FP600A-LF

ACCESSORIES (Cont.)



Large Diameter EPDM Seal

(leak	dete	ction	
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SIZE	PART No.	
2 1/2	T048364 PP	Leak Detect
3	T048366 PP	Leak Detect
4	T048368 PP	Leak Detect



EPDM Seal (leak detection for PC-FP600A-LF ONLY)

SIZE	PART No.	
1/2	T048370 PP	PC-FP600A-LF
3/4	T048372 PP	PC-FP600A-LF
1	T048374 PP	PC-FP600A-LF
1 1/4	T048376 PP	PC-FP600A-LF
1 1/2	T048378 PP	PC-FP600A-LF
2	T048380 PP	PC-FP600A-LF



Press Installation Gauge

		•
SIZE	PART No.	
1 1/2 - 2	K700001PC	

WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Visit our website for the most current information.



NIBCO pressystem





NIBCO® Press System Illustrated Valve Index

PC-585-70 **TPC-585-70** PC-585-70-HC PC-585-70-66-HC PC-585-70-66 TPC-585-70-66 Bronze Ball Valve Bronze Ball Valve Bronze Ball Valve Press Female End x Hose Press x Press Female End • Press Female End x NPT • Full Port, Blowout-Proof Stem • Full Port, Blowout-Proof Stem • Full Port, Blowout-Proof Stem Standard Lever Handle • Standard Lever Handle • Standard Lever Handle Blow Down, End of Line • 250 PSI CWP • 250 PSI CWP Hose Cap with Chain • Sizes 1/2" thru 2" • Sizes 1/2" thru 2" 250 PSI CWP • Sizes 1/2" and 3/4" Page 14, 15 Page 16, 17 Page 18, 19 PC-585-80-LF-HC TPC-585-80-LF PC-585-80-LF PC-585-66-LF PC-585-66-LF-HC TPC-585-66-LF Lead-Free* Bronze Ball Valve Lead-Free* Bronze Ball Valve Lead-Free* Bronze Ball Valve Press x Press Female End Press Female End x Hose Press Female End x NPT • Full Port, Blowout-Proof Stem • Full Port, Blowout-Proof Stem • Full Port, Blowout-Proof Stem Standard Lever Handle • Standard Lever Handle • 250 PSI CWP • 250 PSI CWP • 250 PSI CWP • Sizes 1/2" thru 2" • Sizes 1/2" thru 2" • Sizes 1/2" and 3/4" Page 24, 25 Page 20, 21 Page 22, 23 PC-FP-600A-LF PC-FP-600A-LF-W PCMT-FP-600A-LF Lead-Free* DZR Brass Ball Valve Lead Free* DZR Brass Ball Valve Lead Free* DZR Brass Ball Valve • Press x Press Female End Press x Press with Wing Press x MIP Full Port, Blowout-Proof Stem Press End Leak Detection • Full Port, Blowout-Proof Stem • Press End Leak Detection Press End Leak Detection • 250 PSI CWP · Full Port, Blowout-Proof Stem 250 PSI • Sizes 1/2" thru 4" 250 PSI • Sizes 1/2" - 1" Sizes 1/2" - 1" Page 26, 27 Page 29 Page 28 PC-FP-600A-D-LF PC-FP-600A-LF-HC PCT-FP-600A-LF Lead Free* DZR Brass Ball Valve Lead Free* DZR Brass Ball Valve Lead Free* DZR Brass Ball Valve • Press x FIP Press x Press Press x Hose Cap • Press End Leak Detection with Drain/Bleeder Press End Leak Detection • Full Port, Blowout-Proof Stem Press End Leak Detection • Full Port, Blowout-Proof Stem • 250 PSI • Full Port, Blowout-Proof Stem • 250 PSI • Sizes 1/2" - 1" • Sizes 1/2" - 3/4" • 250 PSI Sizes 1/2" - 1" Page 30 Page 32 Page 31 PCPXA-FP-600A-LF PCPX-FP-600A-LF PCFU-FP-600A-LF Lead Free* DZR Brass Ball Valve Lead Free* DZR Brass Ball Valve Lead Free* DZR Brass Ball Valve Press x PEX F1960 Cold Press x PEX F1807 Crimp Press x FIP Union Press End Leak Detection · Press End Leak Detection Expansion Press End Leak Detection • Full Port, Blowout-Proof Stem • Full Port, Blowout-Proof Stem • Full Port, Blowout-Proof Stem • 250 PSI 250 PSI • 250 PSI Sizes 1/2" - 2" Sizes 1/2" - 1" • Sizes 1/2" - 2" Page 34 Page 35 Page 33

NOTE: Ball valves are down-rated from 600 PSI CWP to 250 PSI CWP to match the press system.

Visit our website for the most current information.



NIBCO® Press System Illustrated Valve Index

PCMU-FP-600A-LF

Lead Free* DZR Brass Ball Valve



- Press x MIP Union
 - Press End Leak Detection
 - Full Port, Blowout-Proof Stem
 - 250 PSI
 - Sizes 1/2" 1"

Page 36

PCSU-FP-600A-LF

Lead Free* DZR Brass Ball Valve



- Press x Solder Union
- Press End Leak Detection
- Full Port, Blowout-Proof Stem
- 250 PSI
- Sizes 1/2" 1"

Page 37

PF-111

Bronze Gate Valve



- Press x Press Female End
- Rising Stem
- 200 PSI CWP
- Sizes 1/2" thru 2"

Page 38

PC-111-LF

Lead-Free* Bronze Gate Valve



- Press x Press Female End
- Rising Stem
- Press End Leak Detection
- 250 PSI CWP
- Sizes 1/2" thru 3"

Page 39

PF-113

Bronze Gate Valve



- Press x Press Female End
- Non-Rising Stem
- 200 PSI CWP
- Sizes 1/2" thru 2"

Page 40

PC-113-LF

Lead-Free* Bronze Gate Valve



- Press x Press Female End
- Non-Rising Stem
- Press End Leak Detection
- 250 PSI CWP Sizes 1/2" thru 3"

Page 41

PF-211-Y

Bronze Globe Valve



- Press x Press Female End
- PTFE Resilient Seat
- 200 PSI CWP
- Sizes 1/2" thru 2"

Page 42

PF-311-Y

Bronze Angle Valve



- Press x Press Female End
- PTFE Resilient Seat
- 200 PSI CWP
- Sizes 1/2" thru 2"

Page 43

PC-413-Y-LF

Bronze Swing Check Valve



- - Lead-Free*
 - Press x Press Female End
 - PTFE Seat
 - 200 PSI CWP • Sizes 1/2" thru 2"

Page 44

PF-413-Y

Bronze Swing Check Valve



- Press x Press Female End
 - PTFE Seat
 - 200 PSI CWP
 - Sizes 1/2" thru 2"

Page 45

PF-480-Y

Bronze In-Line Check Valve



- Press x Press Female End • PTFE Seat, Stainless
- Internals • 200 PSI CWP
- Sizes 1/2" thru 2"

Page 46

PFD-2000 Series

Ductile Iron Butterfly Valve



- Press x Press Female End
- Molded-in Liner
- Aluminum Bronze Disc
- · Standard Lever Handle or Gear Operated
- 200 PSI CWP
- Sizes 2 1/2" thru 4"

Page 47

PS-585-70 PS-585-70-66

Bronze Ball Valve



- Press x Press Male End
 - 2" Type L Copper
 - Full Port, Blowout-Proof
 - Standard Lever Handle
 - 600 PSI CWP • Sizes 1/2" thru 2"

Page 48, 49

PS-585-70-HC





- · Standard Lever Handle
- Blown Down, End of Line
- Hose Cap with Chain
- 600 PSI CWP • Sizes 1/2" and 3/4"

PF-221/222-A/B

Bronze Y-Strainer



- Tapped cap w/ blow-off plug or solid cap
- 20 Mesh SS Screen or SS Perforated Screen
- 200 PSI CWP
- Sizes 1/2" thru 2"

Page 51

NOTE: Ball valves are down-rated from 600 PSI CWP to 250 PSI CWP to match the press system. NOTE: Check valves are down-rated from 250 PSI CWP to 200 PSI CWP to match the press system.

*Weighted average lead content ≤ 0.25%



Two-Piece Body • Full Port • Bronze Trim • Blowout-Proof Stem • Press Ends Leak Detection



250 PSI/17.2 bar non-shock cold working pressure 250°F maximum operating temperature

CONFORMS TO MSS SP-110

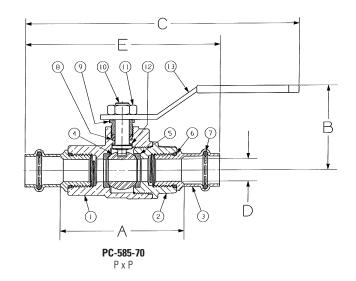
MATERIAL LIST

	WAI LINAL LIST		
	PART	SPECIFICATION	
1.	Body	Bronze ASTM B584 Alloy C84400	
2.	Body End	Bronze ASTM B584 Alloy C84400	
3.	Press End Adapter (2)	Wrot Copper ASTM B75 Alloy C12200	
4.	Ball	Brass ASTM B16 Alloy C36000	
		or ASTM B283 Alloy C37700 (Chrome/Nickel Plated)	
5.	Seat Ring (2)	Reinforced PTFE	
6.	Boss seal o-ring (2)	EPDM	
7.	O-Ring (2)	EPDM	
8.	Packing	PTFE	
9.	Pack Gland	Brass ASTM B16 Alloy C36000	
10.	Stem	Silicon Bronze ASTM B371 Alloy C69300	
		or ASTM B99 Alloy C65100	
11.	Handle Nut	Zinc Plated Steel	
12.	Thrust Washer	Reinforced PTFE	
13.	Handle Assembly	Zinc Plated Steel Clear Chromate Plastisol Coated	

Handle Options:

- Stainless steel lever
- NIB-SEAL[®]
- Locking lever
- · Stainless steel locking lever
- Memory stop
- Extended lever w/ memory stop
- Round
- Wing
- Horizontal and vertical chain

PC-585-70 Press x Press Female End



DIMENSIONS—WEIGHTS

			Dimensions										
SI	ZE		4	В		(C		D		E	Weight	
In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	ln.	mm.	Lbs.	Kg.
1/2"	13	2.76	70	1.90	48	6.00	152	.50	13	4.15	105	.80	.36
3/4"	19	3.28	83	2.28	58	7.29	185	.75	19	5.05	128	1.56	.71
1″	25	3.59	91	2.41	61	7.34	186	1.00	25	5.36	136	2.13	1.00
1¼"	32	4.62	117	3.05	77	10.04	255	1.25	32	6.64	169	3.73	1.69
1½"	38	5.23	133	3.30	84	10.72	272	1.50	38	8.00	203	5.53	2.51
2"	50	5.63	143	3.51	89	11.05	281	2.00	50	8.65	220	7.95	3.61

NIBCO Press System ball valves are designed to meet MSS SP-110 with the exception of the end connection. Ball valves are down-rated from 600 PSI CWP to 250 PSI CWP to match the NIBCO Press System. Male and female press-to-connect ends are new technology not yet covered in the current edition of this specification.

WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.



Two-Piece Body • Full Port • Stainless Trim • Blowout-Proof Stem • Vented Ball • Press Ends Leak Detection



250 PSI/17.2 bar non-shock cold working pressure 250°F maximum operating temperature

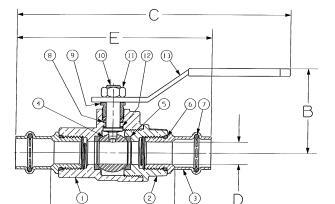
CONFORMS TO MSS SP-110

MATERIAL LIST

	1417	ILLIIIAL LIVI
	PART	SPECIFICATION
1.	Body	Bronze ASTM B584 Alloy C84400
2.	Body End	Bronze ASTM B584 Alloy C84400
3.	Press End Adapter (2)	Wrot Copper ASTM B75 Alloy C12200
4.	Ball (vented)	Stainless Steel ASTM A276 Type 316 or
		ASTM A351 Type CF8M
5.	Seat Ring (2)	Reinforced PTFE
6.	Boss Seal O-Ring (2)	EPDM
7.	0-Ring (2)	EPDM
8.	Packing	PTFE
9.	Pack Gland	Brass ASTM B16 Alloy C36000
10.	Stem	Stainless Steel ASTM A276 Alloy S31600
11.	Handle Nut	300 Series Stainless Steel
12.	Thrust Washer	Reinforced PTFE
13.	Handle Assembly	Zinc Plated Steel Clear Chromate Plastisol Coated

Handle Options:

- · Stainless steel lever
- NIB-SEAL[®]
- Locking lever
- Stainless steel locking lever
- Memory stop
- Extended lever w/ memory stop
- Round
- Wing
- Horizontal and vertical chain



PC-585-70-66
Press x Press
Female End

PC-585-70-66

PxP

WARNING: This prod DIMENSIONS—WEIGHTS

to the S	tata a	nicais f Calif	ornia	to on	eau, w	nich	Dime	vn ensioi	ns					
birth de	fect \$I	Z Eoth	er rep	roduc	tive 🛭	arm.	For m6	re	- 1	D			We	ight
informa	ti qn .g	ontony	/w w .P	65 ₩a	rnings	man9	⁰ 4 п.	mm.	ln.	mm.	In.	mm.	Lbs.	Kg.
	1/2"	13	2.76	70	1.90	48	6.00	152	.50	13	4.15	105	.77	.35
	3/4"	19	3.28	83	2.28	58	7.29	185	.75	19	5.05	128	1.55	.70
	1"	25	3.59	91	2.40	61	7.34	186	1.00	25	5.36	136	2.29	1.04
	1¼"	32	4.62	117	3.05	77	10.04	255	1.25	32	6.64	169	3.80	1.72
	1½"	38	5.23	133	3.30	84	10.72	272	1.50	38	8.00	203	5.60	2.54
	2"	50	5.63	143	3.51	89	11.05	281	2.00	50	8.65	220	8.69	3.94

NIBCO Press System ball valves are designed to meet MSS SP-110 with the exception of the end connection. Ball valves are down-rated from 600 PSI CWP to 250 PSI CWP to match the NIBCO Press System. Male and female press-to-connect ends are new technology not yet covered in the current edition of this specification.

WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.



AHEAD OF THE FLOW®

NIBCO® Press System Bronze Ball Valves

Two-Piece Body • Full Port • Bronze Trim • Blowout-Proof Stem • Press Ends Leak Detection



250 PSI/17.2 bar non-shock cold working pressure 250°F maximum operating temperature

CONFORMS TO MSS SP-110

MATERIAL LIST

	141	THE EIGHT
	PART	SPECIFICATION
1.	Handle Nut	Zinc Plated Steel
2.	Stem	Silicon Bronze ASTM B371 Alloy C69300
		or ASTM B371 Alloy C69430
3.	Pack Gland	Brass ASTM B16 Alloy C36000
4.	Packing, Stem	PTFE
5.	Thrust Washer	Reinforced PTFE
6.	Handle Assembly	Zinc Plated Steel with Plastisol Coating
7.	Body End	Bronze ASTM B584 Alloy C84400
8.	Seat Ring (2)	Reinforced PTFE
9.	Ball	Brass ASTM B16 Alloy C36000
		or ASTM B283 Alloy C37700 (Chrome/Nickel Plated)
10.	Body	Bronze ASTM B584 Alloy C84400
11.	Boss seal o-ring	EPDM
12.	O-Ring	EPDM
13.	Press End Adapter	Wrot Copper ASTM B75 Alloy C12200



TPC-585-70 Thread x Press Female

Handle Options:

- · Stainless steel lever
- NIB-SEAL®
- Locking lever
- Stainless steel locking lever
- Memory stop
- Extended lever w/ memory stop
- Round
- Wina
- Horizontal and vertical chain

(13) TPC-585-70

NPT x P

DIMENSIONS—WEIGHTS—QUANTITIES

Dimensions											_			
SI	ZE		A B C D E Weight									ight	Master	
In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	ln.	mm.	Lbs.	Kg.	Ctn. Qty.
1/2"	15	3.38	86	3.96	101	1.96	50	0.50	13	1.86	47	0.85	0.39	50
3/4"	20	4.08	104	4.76	121	2.28	58	0.75	19	2.42	61	1.50	0.68	30
1″	25	4.44	113	4.76	121	2.48	63	1.00	25	2.71	69	2.00	0.91	20
1¼"	32	5.46	139	6.75	171	3.09	78	1.25	32	3.67	93	3.55	1.61	12
1½"	40	6.27	159	6.75	171	3.32	84	1.50	38	4.15	105	4.90	2.22	6
2"	50	6.99	176	6.75	171	3.56	90	2.00	51	4.64	118	6.90	3.13	6

NIBCO Press System ball valves are designed to meet MSS SP-110 with the exception of the end connection. Ball valves are down-rated from 600 PSI CWP to 250 PSI CWP to match the NIBCO Press System. Male and female press-to-connect ends are new technology not yet covered in the current edition of this specification.

WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.



Two-Piece Body • Full Port • Stainless Trim • Blowout-Proof Stem • Vented Ball • Press Ends Leak Detection





250 PSI/17.2 bar non-shock cold working pressure 250°F maximum operating temperature

CONFORMS TO MSS SP-110

MATERIAL LIST

	IV	IAI LIIIAL LIGI
	PART	SPECIFICATION
1.	Handle Nut	300 Series Stainless Steel
2.	Stem	Stainless Steel ASTM A276 Type 316
3.	Pack Gland	Brass ASTM B16 Alloy C36000
4.	Packing, Stem	PTFE
5.	Thrust Washer	Reinforced PTFE
6.	Handle Assembly	Zinc Plated Steel Clear Chromate
		Plastisol Coated
7.	Body End	Bronze ASTM B584 Alloy C84400
8.	Seat Ring (2)	Reinforced PTFE
9.	Ball (vented)	Stainless Steel ASTM A276 Alloy S31600 or
		ASTM A351 Type CF8M
10.	Body	Bronze ASTM B584 Alloy C84400
11.	Boss seal o-ring	EPDM
12.	O-Ring	EPDM
13.	Press End Adapter	Wrot Copper ASTM B75 Alloy C12200



TPC-585-70-66



- · Stainless steel lever
- NIB-SEAL[®]
- Locking lever
- Stainless steel locking lever
- Memory stop
- Extended lever w/ memory stop
- Round
- Wing
- Horizontal and vertical chain

NPT x P

DIMENSIONS—WEIGHTS—QUANTITIES

Dimensions														
SI	IZE		A B C D E Weight									Master		
In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	Lbs.	Kg.	Ctn. Qty.
1/2"	15	3.10	79	3.96	101	1.96	50	0.50	13	1.86	47	0.85	0.39	50
3/4"	20	3.96	101	4.76	121	2.28	58	0.75	19	2.45	62	1.50	0.68	30
1"	25	4.47	114	4.76	121	2.48	63	1.00	25	2.92	74	2.00	0.91	20
1¼"	32	4.99	127	6.75	171	3.09	78	1.25	32	3.30	84	3.55	1.61	12
1½"	40	5.90	150	6.75	171	3.32	84	1.50	38	3.84	98	4.90	2.22	6
2"	50	6.61	168	6.75	171	3.56	90	2.00	51	4.38	111	6.90	3.13	6

NIBCO Press System ball valves are designed to meet MSS SP-110 with the exception of the end connection. Ball valves are down-rated from 600 PSI CWP to 250 PSI CWP to match the Press System. Male and female press-to-connect ends are new technology not yet covered in the current edition of this specification.

WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.



Two-Piece Body • Full Port • Bronze Trim • Blowout-Proof Stem • 3/4" Hose Connection w/Cap and Chain • Press Ends Leak Detection

250 PSI/17.2 bar non-shock cold working pressure 250°F maximum operating temperature

CONFORMS TO MSS SP-110

MATERIAL LIST

	14	IAI LIIIAL LIU I
	PART	SPECIFICATION
1.	Press End Adapter	Wrot Copper ASTM B75 Alloy C12200
2.	Body	Bronze ASTM B584 Alloy C84400
3.	Hose Body End	Brass ASTM B124 Alloy C37700
4.	Сар	Die Cast Brass
5.	O-Ring	EPDM
6.	Boss seal o-ring	EPDM
7.	Ball	Brass ASTM B16 Alloy C36000 or ASTM B283 Alloy C37700 (Chrome/Nickel Plated)
8.	Packing	PTFE
9.	Pack Gland	Brass ASTM B16 Alloy C36000
10.	Stem	Silicon Bronze ASTM B371 Alloy C69300 or ASTM B371 Alloy C69430
11.	Handle Nut	Zinc Plated Steel
12.	Thrust Washer	Reinforced PTFE
13.	Handle Assembly	Zinc Plated Steel Clear Chromate Plastisol Coated
14.	Seat Ring (2)	Reinforced PTFE



- Stainless steel lever
- NIB-Seal®
- · Locking lever
- Stainless steel locking lever
- Memory stop
- Extended lever w/ memory stop
- Round
- Wing
- Horizontal and vertical chain

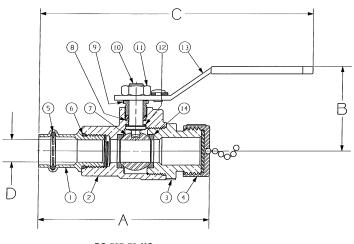
DIMENSIONS—WEIGHTS

	Dimensions										
SI	ZE		4	В		C		D		Weight	
In.	mm.	In.	mm.	In.	mm.	In.	mm.	ln.	mm.	Lbs.	Kg.
1/2"	13	3.06	78	1.88	48	6.09	155	.50	13	.92	.42
3/4"	19	4.47	114	2.25	57	7.36	187	.75	19	1.70	.77

NIBCO Press System ball valves are designed to meet MSS SP-110 with the exception of the end connection. Ball valves are down-rated from 600 PSI CWP to 250 PSI CWP to match the NIBCO Press System. Male and female press-to-connect ends are new technology not yet covered in the current edition of this specification.



PC-585-70-HC
Press Female x Hose End



PC-585-70-HC P x Hose

WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.



Two-Piece Body • Full Port • Stainless Trim • Blowout-Proof Stem • Vented Ball • 3/4" Hose Connection with Cap and Chain • Press Ends Leak Detection

250 PSI/17.2 bar non-shock cold working pressure 250°F maximum operating temperature

CONFORMS TO MSS SP-110

MATERIAL LIST

	141	AI LILIAL LIVI
	PART	SPECIFICATION
1.	Press End Adapter	Wrot Copper ASTM B75 Alloy C12200
2.	Body	Bronze ASTM B584 Alloy C84400
3.	Hose Body End	Brass ASTM B124 Alloy C37700
4.	Сар	Die Cast Brass
5.	O-Ring	EPDM
6.	Boss seal o-ring	EPDM
7.	Ball (vented)	Stainless Steel ASTM A276 Alloy S31600 or ASTM A351 Type CF8M
8.	Packing	PTFE
9.	Pack Gland	Brass ASTM B16 Alloy C36000
10.	Stem	Stainless Steel ASTM A276 Alloy S31600
11.	Handle Nut	300 Series Stainless Steel
12.	Thrust Washer	Reinforced PTFE
13.	Handle Assembly	Zinc Plated Steel Clear Chromate Plastisol Coated
14.	Seat Ring (2)	Reinforced PTFE



- Stainless steel lever
- NIB-Seal®
- · Locking lever
- Stainless steel locking lever
- Memory stop
- Extended lever w/ memory stop
- Round
- Wing
- Horizontal and vertical chain

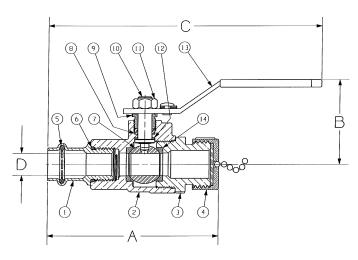
DIMENSIONS—WEIGHTS

	Dimensions										
SIZE A B C D Weight										ight	
In.	mm.	In.	mm.	In.	mm.	ln.	mm.	ln.	mm.	Lbs.	Kg.
1/2"	13	2.76	70	1.88	48	6.09	155	.50	13	.92	.42
3/4"	19	3.28	83	2.25	57	7.36	187	.75	19	1.70	.77

NIBCO Press System ball valves are designed to meet MSS SP-110 with the exception of the end connection. Ball valves are down-rated from 600 PSI CWP to 250 PSI CWP to match the Press System. Male and female press-to-connect ends are new technology not yet covered in the current edition of this specification.



PC-585-70-66-HC Press Female x Hose End



PC-585-70-66-HC P x Hose

WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.



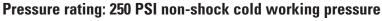
AHEAD OF THE FLOW®

NIBCO® Press System Lead-Free* Bronze Ball Valves

Features: Silicon Performance Bronze[®] Two-Piece Body • Press Ends Leak Detection • Full Port • Blowout-Proof Stem • Stainless Trim

Approvals: MSS SP-110 • IIAPMO/ANSI Z1157 (IGC-157)•

NSF/ANSI-61-8 commercial hot 180°F (includes annex F and G) and NSF/ANSI-372



Body design pressure: 600 PSI

Maximum pressure / temperature: 200 PSI at 250° F

Lead-free* markings:

Double oval in body casting, white handle and blue hang tag

MATERIAL LIST

	PART	SPECIFICATION
1.	Handle Nut	Zinc Plated Steel
2.	Stem	Stainless Steel ASTM A276 Type 316
3.	Pack Gland	Brass ASTM B16 Alloy C36000
4.	Packing, Stem	PTFE
5.	Thrust Washer	Reinforced PTFE
6.	Handle Assembly	Zinc Plated Steel Clear Chromate
		Plastisol Coated
7.	Body End	Silicon Bronze ASTM B584 Alloy C87600
8.	Seat Ring (2)	Reinforced PTFE
9.	Ball (vented)	DZR Brass SAE J461 C46500 (1/4"-1")
		Stainless Steel ASTM A276 S31600
		or ASTM A351 CF8M (1 1/4"-2")
10.	Body	Silicon Bronze ASTM B584 Alloy C87600
11.	Boss seal o-ring (2)	EPDM
12.	O-Ring (2)	EPDM
13.	Press End Adapter (2)	Wrot Copper ASTM B75 Alloy C12200

Handle Options:

- Stainless steel lever
- NIB-Seal®
- Locking lever
- Stainless steel locking lever
- Memory stop
- Extended lever w/ memory stop
- Round
- Wina
- Horizontal and vertical chain



Handle Markings

WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.





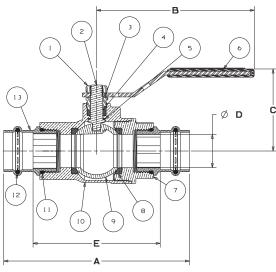






PC-585-80-LF

Press x Press Female End



PC-585-80-LF $P \times P$

DIMENSIONS—WEIGHTS—QUANTITIES

SI	ZE		A	E	3	C	;	[)	E	<u> </u>	F		(ì		J	We	ight
In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	Lbs.	Kg.
1/2	15	3.93	100	3.96	101	1.96	50	0.50	13	2.53	64	1.20	30	0.70	18	5.93	151	0.80	0.36
3/4	20	5.00	127	4.76	121	2.28	58	0.75	19	3.23	82	1.56	40	0.96	24	7.33	186	1.56	0.71
1	25	5.61	142	4.76	121	2.48	63	1.00	25	3.84	98	1.97	50	0.89	23	7.56	192	2.13	1.00
1-1/4	32	6.23	158	6.76	172	3.10	79	1.25	32	4.21	107	2.31	59	1.01	26	9.86	250	3.73	1.69
1-1/2	40	7.56	192	6.76	172	3.32	84	1.50	38	4.79	122	2.84	72	1.39	35	10.53	267	5.53	2.51
2	50	8.40	213	6.76	172	3.56	90	2.00	51	5.36	136	3.54	90	1.51	38	10.94	278	7.95	3.61

NIBCO Press System ball valves are designed to meet MSS SP-110 with the exception of the end connection. Ball valves are down-rated from 600 PSI CWP to 250 PSI CWP to match the Press System. Male and female press-to-connect ends are new technology not yet covered in the current edition of this specification.

Visit our website for the most current information.



Features: Silicon Performance Bronze[®] Two-Piece Body • Press Ends Leak Detection • Full Port • Blowout-Proof Stem • Stainless Trim • Vented Ball

Approvals: MSS SP-145 • IAPMO/ANSI Z1157 (IGC-157) •

NSF/ANSI-61-8 commercial hot 180°F (includes annex F and G) and NSF/ANSI-372

Pressure rating: 250 PSI non-shock cold working pressure Body design pressure: 600 PSI non-shock cold working pressure Maximum pressure / temperature: 225 PSI at 250° F

Lead-free* markings:

Double oval in body casting, white handle and blue hang tag

MATERIAL LIST

		TALLINAL EIGI
	PART	SPECIFICATION
1.	Handle Nut	Zinc Plated Steel
2.	Stem	Stainless Steel ASTM A276 Type 316
3.	Pack Gland	Brass ASTM B16 Alloy C36000
4.	Packing, Stem	PTFE
5.	Thrust Washer	Reinforced PTFE
6.	Handle Assembly	Zinc Plated Steel Clear Chromate
		Plastisol Coated
7.	Body End	Silicon Bronze ASTM B584 Alloy C87600
8.	Seat Ring (2)	Reinforced PTFE
9.	Ball (vented)	Stainless Steel ASTM A276 S31600
10.	Body	Silicon Bronze ASTM B584 Alloy C87600
11.	Boss seal o-ring (2)	EPDM
12.	O-Ring (2)	EPDM
13.	Press End Adapter (2)	Wrot Copper ASTM B75 Alloy C12200

Handle Options:

- Stainless steel lever
- NIB-SEAL®
- Locking lever
- Stainless steel locking lever
- Memory stop
- Extended lever w/ memory stop
- Round
- Wina
- Horizontal and vertical chain



WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.





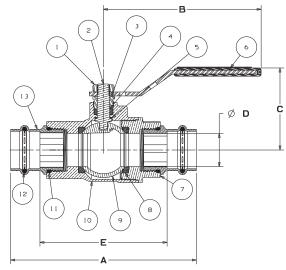






PC-585-66-LF

Press x Press Female End



PC-585-66-LF PxP

DIMENSIONS—WEIGHTS—QUANTITIES

SI	ZE		4	E	3	C	;)	E		F	=	(3		J	We	ight
In.	mm.	ln.	mm.	In.	mm.	ln.	mm.	Lbs.	Kg.										
1/2	15	3.93	100	3.96	101	1.96	50	0.50	13	2.53	64	1.20	30	0.70	18	5.93	151	0.80	0.36
3/4	20	5.00	127	4.76	121	2.28	58	0.75	19	3.23	82	1.56	40	0.96	24	7.33	186	1.56	0.71
1	25	5.61	142	4.76	121	2.48	63	1.00	25	3.84	98	1.97	50	0.89	23	7.56	192	2.13	1.00
1-1/4	32	6.23	158	6.76	172	3.10	79	1.25	32	4.21	107	2.31	59	1.01	26	9.86	250	3.73	1.69
1-1/2	40	7.56	192	6.76	172	3.32	84	1.50	38	4.79	122	2.84	72	1.39	35	10.53	267	5.53	2.51
2	50	8.40	213	6.76	172	3.56	90	2.00	51	5.36	136	3.54	90	1.51	38	10.94	278	7.95	3.61

NIBCO Press System ball valves are designed to meet MSS SP-110 with the exception of the end connection. Ball valves are down-rated from 600 PSI CWP to 250 PSI CWP to match the Press System. Male and female press-to-connect ends are new technology not yet covered in the current edition of this specification.

^{*}Weighted average lead content ≤ 0.25%



AHEAD OF THE FLOW®

NIBCO® Press System Lead-Free* Bronze Ball Valves

Features: Silicon Performance Bronze[®] Alloy • Two-Piece Body • Full Port • Blowout-Proof Stem • Press End Leak Detection x 3/4" Hose Connection with Cap and Chain

Approvals: MSS SP-110 • IAPMO/ANSI Z1157 (IGC-157) •

NSF/ANSI-61-9 and NSF/ANSI-372

Pressure rating: 250 PSI non-shock cold working pressure

Lead-free* markings:

Double oval in body casting, white handle and blue hang tag







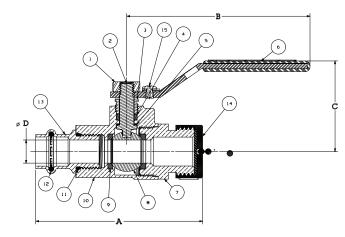


MATERIAL LIST

	141	AI LINAL LIGI
	PART	SPECIFICATION
1.	Handle Nut	Zinc Plated Steel
2.	Stem	Silicon Bronze ASTM B371 Alloy C69300
3.	Pack Gland	Brass ASTM B16 Alloy C36000
4.	Packing	PTFE
5.	Thrust Washer	Reinforced PTFE
6.	Handle Assembly	Zinc Plated Steel Clear Chromate
		Plastisol Coated
7.	Hose Body End	Silicon Bronze ASTM B371 Alloy C69300
8.	Ball	DZR Brass SAE J461 C46500 (1/4"-1")
		Stainless Steel ASTM A276 S31600 or
		ASTM A351 CF8M (1 1/4"-2")
9.	Seat Ring (2)	Reinforced PTFE
10.	Body	Silicon Bronze ASTM B584 Alloy C87600
11.	Boss seal o-ring	EPDM
12.	O-Ring	EPDM
13.	Press End Adapter	Wrot Copper ASTM B75 Alloy C12200
14.	Cap ¹	Die Cast Brass, EPDM Gasket
15.	Pop Rivet	Stainless Steel

Cap is for hose end thread protection only. Not to be used for pressure containing purposes.

PC-585-80-LF-HC Press Female x Hose End



PC-585-80-LF-HC P x Hose

Handle Options:

- Stainless steel lever
- NIB-SEAL®
- Locking lever
- Stainless steel locking lever
- Memory stop
- Extended lever w/ memory stop
- Round
- Wing
- Horizontal and vertical chain



DIMENSIONS—WEIGHTS—QUANTITIES

SI	ZE		Α		3	(<u> </u>		<u> </u>		<u> </u>		F	(<u> </u>	Wei	ght
ln.	mm.	In.	mm.	In.	mm.	ln.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	Lbs.	Kg.
1/2	15	3.61	92	3.76	96	1.96	50	0.50	13	5.93	151	1.53	39	0.70	18	12.70	0.42
3/4	20	4.32	110	4.76	121	2.28	58	0.75	19	7.28	185	1.95	50	0.96	24	1.70	0.77

NIBCO Press System ball valves are designed to meet MSS SP-110 with the exception of the end connection. Ball valves are down-rated from 600 PSI CWP to 250 PSI CWP to match the Press System. Male and female press-toconnect ends are new technology not yet covered in the current edition of this specification.

WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Visit our website for the most current information.



Features: Silicon Performance Bronze[®] Alloy • Two-Piece Body • Full Port • Stainless Trim • Vented Ball • Blowout-Proof Stem •

Press Ends Leak Detection x 3/4" Hose Connection with Cap and Chain

Approvals: MSS SP-110 • IAPMO/ANSI Z1157 (IGC-157) •

NSF/ANSI-61-9 and NSF/ANSI-372

Pressure rating: 250 PSI non-shock cold working pressure

Lead-free* markings:

Double oval in body casting, white handle and blue hang tag







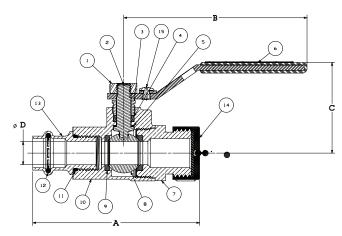


MATERIAL LIST

	141	AI LIIIAL LIU I
	PART	SPECIFICATION
1.	Handle Nut	Zinc Plated Steel
2.	Stem	Stainless Steel ASTM A276 Type 316
3.	Pack Gland	Brass ASTM B16 Alloy C36000
4.	Packing	PTFE
5.	Thrust Washer	Reinforced PTFE
6.	Handle Assembly	Zinc Plated Steel Clear Chromate
		Plastisol Coated
7.	Hose Body End	Silicon Bronze ASTM B371 Alloy C69300
8.	Ball (vented)	Stainless Steel ASTM A276 Type 316
9.	Seat Ring (2)	Reinforced PTFE
10.	Body	Silicon Bronze ASTM B584 Alloy C87600
11.	Boss seal o-ring	EPDM
12.	O-Ring	EPDM
13.	Press End Adapter	Wrot Copper ASTM B75 Alloy C12200
14.	Cap ¹	Die Cast Brass, EPDM Gasket
15.	Pop Rivet	Stainless Steel

Cap is for hose end thread protection only. Not to be used for pressure containing purposes.

PC-585-66-LF-HC Press Female x Hose End



PC-585-66-LF-HC

Handle Options:

- Stainless steel lever
- NIB-SEAL[®]
- Locking lever
- Stainless steel locking lever
- Memory stop
- Extended lever w/ memory stop
- Round
- Wing
- Horizontal and vertical chain



DIMENSIONS—WEIGHTS—QUANTITIES

SI	ZE		Α	Е	3	(;		D		Ε		F		G	We	ight
In.	mm.	In.	mm.	In.	mm.	ln.	mm.	In.	mm.	ln.	mm.	In.	mm.	In.	mm.	Lbs.	Kg.
1/2	15	3.61	92	3.76	96	1.96	50	0.50	13	5.93	151	1.31	33	0.70	18	0.92	0.42
3/4	20	4.32	110	4.76	121	2.28	58	0.75	19	7.28	185	1.62	41	0.96	24	1.70	0.77

WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

NIBCO Press System ball valves are designed to meet MSS SP-110 with the exception of the end connection. Ball valves are down-rated from 600 PSI CWP to 250 PSI CWP to match the Press System. Male and female press-to-connect ends are new technology not yet covered in the current edition of this specification.

*Weighted average lead content ≤ 0.25%



Features: Silicon Performance Bronze® Body • Press Ends Leak Detection • Full Port • Blowout-Proof Stem

Approvals: MSS SP-110 • IAPMO/ANSI Z1157 (IGC-157) • NSF/ANSI-61-8 Commercial Hot 180°F (includes annex F and G) and NSF/ANSI-372

Pressure rating: 250 PSI non-shock cold working pressure Body design pressure: 600 PSI non-shock cold working pressure Maximum pressure / temperature: 200 PSI at 250° F

Lead-free* markings:

Double oval in body casting, white handle and blue hang tag









MATERIAL LIST

PART	SPECIFICATION
1. Handle Nut	Zinc Plated Steel
2. Stem	Silicon Bronze ASTM B371 Alloy C69300
3. Pack Gland	Brass ASTM B16 Alloy C36000
4. Packing, Stem	PTFE
5. Thrust Washer	Reinforced PTFE
6. Handle Assembly	Zinc Plated Steel Clear Chromate Plastisol Coated
7. Body End	Silicon Bronze ASTM B584 Alloy C87600
8. Seat Ring (2)	Reinforced PTFE
9. Ball	Silicon Bronze ASTM B283 Alloy C69300 or SAE J461 C46500 (1/2" - 1")
	Silicon Bronze ASTM B283 Alloy C69300 or ASTM A276, Alloy S31600 (1 1/4" - 2")
10. Body	Silicon Bronze ASTM B584 Alloy C87600
11. Boss seal o-ring	EPDM
12. O-Ring	EPDM
13. Press End Adapter	Wrot Copper ASTM B75 Alloy C12200



TPC-585-80-LF Thread x Press Female

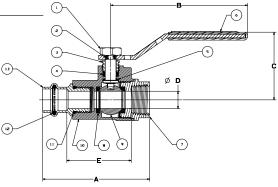
Handle Options:

- Stainless steel lever
- NIB-SEAL®
- Locking lever
- Stainless steel locking lever
- Memory stop
- Extended lever w/ memory stop
- Round
- Horizontal and vertical chain



Handle Markings

WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.



TPC-585-80-LF NPT x P

DIMENSIONS—WEIGHTS

NOM	SIZE		A		3)		D		Ε		F		3		J	We	ight	Master
In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	Lbs.	Kg.	Lbs.	Kg.	Lbs.	Kg.	Ctn. Qty.
1/2	15	3.1	79	3.96	101	1.96	50	0.5	13	1.86	47	1.2	30	0.7	18	5.93	151	0.80	0.36	50
3/4	20	3.96	101	4.76	121	2.28	58	0.75	19	2.45	62	1.56	40	0.96	24	7.33	186	1.35	0.61	30
1	25	4.47	114	4.76	121	2.48	63	1	25	2.92	74	1.97	50	0.89	23	7.56	192	1.90	0.86	20
1-1/4	32	4.99	127	6.76	172	3.1	79	1.25	32	3.3	84	2.31	59	1.01	26	9.86	250	3.20	1.45	12
1-1/2	40	5.9	150	6.76	172	3.32	84	1.5	38	3.84	98	2.84	72	1.39	35	10.53	267	4.40	2.00	6
2	50	6.61	168	6.76	172	3.56	90	2	51	4.38	111	3.54	90	1.51	38	10.94	278	6.45	2.93	6

NIBCO Press System ball valves are designed to meet MSS SP-110 with the exception of the end connection. Ball valves are down-rated from 600 PSI CWP to 250 PSI CWP to match the Press System. Male and female press-to-connect ends are new technology not yet covered in the current edition of this specification.

Visit our website for the most current information.

NSF/ANSI 61 & 372

Dezincification

Resistant

NSF/ANSI 372



NIBCO® Press System Lead-Free* Bronze Ball Valves

Features: Silicon Performance Bronze® Body • Copper End • Full Port •

Blowout-Proof Stem • Stainless Trim

Approvals: MSS SP-145 • IAPMO/ANSI Z1157 (IGC-157) • NSF/ANSI-61-8

Commercial Hot 180°F (includes annex F and G) and NSF/ANSI-372

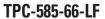
Pressure rating: 250 PSI non-shock cold working pressure

Body design pressure: 600 PSI CWP

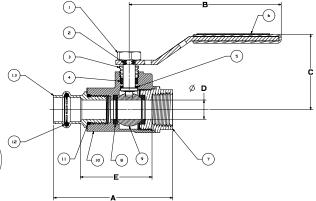
Maximum pressure / temperature: 200 PSI at 250° F

Lead-free* markings:

Double oval in body casting, white handle and blue hang tag



Thread x Press Female



TPC-585-66-LF NPT x P

MATERIAL LIST

	141	AILIIAL LIVI
	PART	SPECIFICATION
1.	Handle Nut	Plated Steel
2.	Stem	Stainless Steel ASTM A276 Type 316
3.	Pack Gland	Brass ASTM B16 Alloy C36000
4.	Packing, Stem	PTFE
5.	Thrust Washer	Reinforced PTFE
6.	Handle Assembly	Plated Steel with Plastisol Coating
7.	Body End	Silicon Bronze ASTM B584 Alloy C87600
8.	Seat Ring (2)	Reinforced PTFE
9.	Ball (vented)	Stainless Steel ASTM A276 Type 316
10.	Body	Silicon Bronze ASTM B584 Alloy C87600
11.	Boss seal o-ring	EPDM
12.	O-Ring	EPDM
13.	Press End Adapter	Wrot Copper ASTM B75 Alloy C12200

Handle Options:

- Stainless Steel Lever
- NIB-SEAL[®]
- Locking lever
- Stainless Steel Locking Lever
- Memory stop
- Extended lever w/ memory stop
- Round
- Wing
- Horizontal and vertical chain



WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

DIMENSIONS—WEIGHTS

NOM	SIZE		4	E	3	(;		D				F		3			We	ight	Master
In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	Lbs.	Kg.	Lbs.	Kg.	Lbs.	Kg.	Ctn. Qty.
1/2	15	3.1	79	3.96	101	1.96	50	0.5	13	1.86	47	1.2	30	0.7	18	5.93	151	0.80	0.36	50
3/4	20	3.96	101	4.76	121	2.28	58	0.75	19	2.45	62	1.56	40	0.96	24	7.33	186	1.35	0.61	30
1	25	4.47	114	4.76	121	2.48	63	1	25	2.92	74	1.97	50	0.89	23	7.56	192	1.90	0.86	20
1-1/4	32	4.99	127	6.76	172	3.1	79	1.25	32	3.3	84	2.31	59	1.01	26	9.86	250	3.20	1.45	12
1-1/2	40	5.9	150	6.76	172	3.32	84	1.5	38	3.84	98	2.84	72	1.39	35	10.53	267	4.40	2.00	6
2	50	6.61	168	6.76	172	3.56	90	2	51	4.38	111	3.54	90	1.51	38	10.94	278	6.45	2.93	6

NIBCO Press System ball valves are designed to meet MSS SP-110 with the exception of the end connection. Ball valves are down-rated from 600 PSI CWP to 250 PSI CWP to match the Press System. Male and female press-to-connect ends are new technology not yet covered in the current edition of this specification.

^{*}Weighted average lead content ≤ 0.25%



Features: Press Ends Leak Detection ● Two-Piece Body ● PTFE Seats ● Full Port ● Blowout-Proof Stem

Approvals: IAPMO/ANSI Z1157 (IGC-157) • NSF/ANSI-61 & 372 • MSS SP-145 • Conforms to ASME B16.51†

Size range: 1/2" - 2"

Pressure rating: 250 PSI non-shock cold working pressure Maximum pressure / temperature: 225 PSI at 250° F

Lead-Free* markings:

White handle and blue hand tag

Applications: Drinking Water ● Domestic Hot & Cold Water ● HVAC (condensors, chilled water, hot water heating) • Isolation and Throttling (half-open to full-open only) • Connect to Rigid Copper Tubing Manufactured per ASTM B88, Condition H (hard drawn)

Reference Press System catalog for updated Approved Tool and Jaw Compatibility Matrix list.

Not intended for steam or gas usage.

MATERIAI LIST

		WATERIAL LIGI
	PART	SPECIFICATION
1.	Body	Forged DZR Copper Alloy - C46500
2.	Seat Seal	PTFE
3.	O-ring	EPDM - ASTM D2000
4.	Washer	PTFE
5.	Lock Nut	Stainless Steel + Nylon
6.	Handle	Steel, Plated
7.	Stem	Brass
8.	Ball	Chrome Plated Brass - C46500 (1/2"-1")
		Stainless Steel 316 (11/4"-2")
9.	End Cap	Forged DZR Copper Alloy - C46500
10.	O-ring	EPDM - ASTM D2000
11.	Metal Ring	Stainless Steel (1-1/4"-2") [‡]

Options:

- Extended lever
- **EPDM Seal for Press Ends**
- Wing Handle



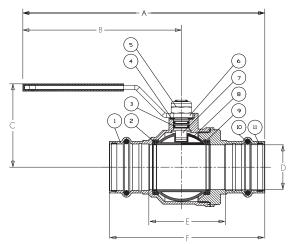
Handle Markings





PC-FP-600A-LF

Press x Press 1/2" - 2" (Patent Pending sizes 1-1/4" - 2")



PC-FP-600A-LF Press x Press 1/2" - 2"‡

DIMENSIONS—WEIGHTS—QUANTITIES

SIZE		A B C D E			F	Weight								
In.	In.	mm.	In.	mm.	In.	mm.	ln.	mm.	In.	mm.	ln.	mm.	Lbs.	Kg.
1/2	4.57	116	3.66	93	2.09	53	0.631	16.03	1.30	33.0	2.87	73.0	0.38	0.17
3/4	5.71	145	4.17	106	2.80	71	0.883	22.43	1.63	41.5	3.44	87.5	0.73	0.33
1	5.83	148	4.17	106	3.15	80	1.140	28.96	1.83	46.5	3.64	92.5	1.00	0.46
1-1/4 [‡]	6.97	177	4.61	117	2.52	64	1.386	35.20	2.19	55.5	4.43	112.5	1.70	0.77
1-1/2‡	9.06	230	6.30	160	3.23	82	1.636	41.56	2.52	64.0	5.30	134.5	2.37	1.08
2 [‡]	9.88	251	6.30	160	3.23	82	2.137	54.28	3.39	86.0	6.69	170.0	3.96	1.80

IAPMO/ANSI Z1157: in addition to meeting ICG-157 test requirements, the IAPMO/ANSI Z1157 also requires Press ends to be fully tested to IAPMO PS-117 performance requirements which includes the following additional tests:

- 1. Unrestrained Hydrostatic Pressure Test at 20 °C (68°F) 2. Unrestrained Hydrostatic Pressure Test at 93 °C (200°F)
- 3. Static Torsion Test for Press Connections
- 4. Bending Test
- 5. Vacuum Test

- 6. Hydraulic Shock (Water Hammer) Test
- 7. Vibration Test
- 8. Thermal Cycling Test
- 9. Alternate Thermal Cycling Test
- 10. Dynamic Torsion Test for Press Connections

†Tested to the performance criteria of ASME B16.51 ‡ Patent Pending

WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Visit our website for the most current information.



Features: Press Ends Leak Detection • Two-Piece Body • PTFE Seats • Full Port • Blowout-Proof Stem

Approvals: IAPMO/ANSI Z1157 (IGC-157) ● NSF/ANSI-61 & 372 ● MSS SP-145 ● Conforms to ASME B16.51[†]

Size range: 2 1/2" - 4"

Pressure rating: 200 PSI non-shock cold working pressure Maximum pressure / temperature: 200 PSI at 200° F

Lead-Free* markings:

White handle and blue hang tag

Applications: Drinking Water • Domestic Hot & Cold Water • HVAC (condensors, chilled water, hot water heating) • Isolation and Throttling (half-open to full-open only) • Connect to Rigid Copper Tubing Manufactured per ASTM B88, Condition H (hard drawn)

Reference Press System catalog for updated Approved Tool and Jaw Compatibility Matrix list.

Not intended for steam or gas usage.

MATERIAL LIST

	PART	SPECIFICATION
1	Handle	Steel Plated
2	Handle Cover	PVC
3	Handle Lock Nut	Steel
4	Stem	Brass/Bronze
5	Packing Nut	Brass/Bronze
6	Packing	PTFE
7	Leak Detection O-ring	EPDM - ASTM D2000
8	O-ring, Boss Seal	EPDM - ASTM D2000
9	Body End	Brass/Bronze
10	Ball	Stainless Steel
11	Body	Brass/Bronze
12	Ball Seat Seal	PTFE
13	Press End Adaptor w/Leak Detection	ASTM B75 Alloy C12200

Options:

- Extended lever
- **EPDM Seal for Press Ends**



Handle Markings



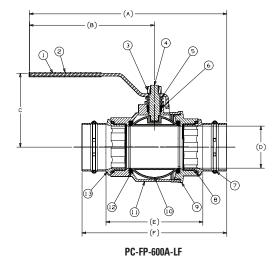






PC-FP-600A-LF Press x Press

2 1/2" - 4"



Press x Press 2 1/2" - 4"

†Tested to the performance criteria of ASME B16.51

DIMENSIONS—WEIGHTS—QUANTITIES

S	IZE		Α		3	(<u> </u>		<u> </u>	E			<u> </u>	Weight		
ln.	mm.	In.	mm.	In.	mm.	In.	mm.	ln.	mm.	In.	mm.	In.	mm.	Lbs.	Kg.	
2 1/2"	15	13.07	332	8.66	220	4.8	121.9	2.52	64	5.88	149.3	8.81	223.7	9.55	4.33	
3	20	13.67	347.2	8.66	220	5.12	130	2.91	73.9	6.71	170.4	10.03	261.6	13.07	5.93	
4	25	15.87	403.1	9.61	244.1	5.98	151.9	3.9	99	8.21	208.5	12.53	318.2	26.32	11.94	

IAPMO/ANSI Z1157: in addition to meeting ICG-157 test requirements, the IAPMO/ANSI Z1157 also requires Press ends to be fully tested to IAPMO PS-117 performance requirements which includes the following additional tests:

- 2. Unrestrained Hydrostatic Pressure Test at 93 °C (200°F)
- 3. Static Torsion Test for Press Connections

1. Unrestrained Hydrostatic Pressure Test at 20 °C (68°F)

- 4. Bending Test
- 5. Vacuum Test

- 6. Hydraulic Shock (Water Hammer) Test
- 7. Vibration Test
- 8. Thermal Cycling Test
- 9. Alternate Thermal Cycling Test
- 10. Dynamic Torsion Test for Press Connections

WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.



Features: Press Ends Leak Detection • Wing Handle • Two-Piece Body • PTFE Seats • Full Port • Blowout-Proof Stem

Approvals: IAPMO/ANSI Z1157 (IGC-157) • NSF/ANSI-61 & 372 • MSS SP-145 • Conforms to ASME B16.51†

Size range: 1/2" - 1"

Pressure rating: 250 PSI non-shock cold working pressure Maximum pressure / temperature: 225 PSI at 250° F

Lead-Free* markings:

White handle and blue hang tag

Applications: Drinking Water • Domestic Hot & Cold Water • HVAC (condensors, chilled water, hot water heating) • Isolation and Throttling (half-open to full-open only) • Connect to Rigid Copper Tubing Manufactured per ASTM B88, Condition H (hard drawn)

Reference Press System catalog for updated Approved Tool and Jaw Compatibility Matrix list.

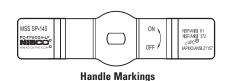
Not intended for steam or gas usage.

MATERIAL LIST

PART	SPECIFICATION
1. Body	Forged DZR Copper Alloy - C46500
2. Seat Seal	PTFE
3. O-ring	EPDM - ASTM D2000
4. Washer	PTFE
5. Lock Nut	Stainless Steel + Nylon
6. Handle	Steel, Plated
7. Stem	Brass
8. Ball	Chrome Plated Brass - C46500
9. End Cap	Forged DZR Copper Alloy - C46500
10. 0-ring	EPDM - ASTM D2000

Options:

- Extended lever
- **EPDM Seal for Press Ends**
- Lever Handle





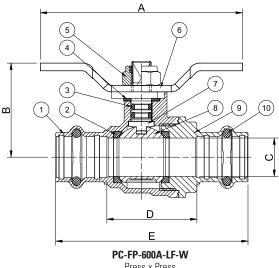






PC-FP-600A-LF-W

Press x Press 1/2" - 1"



Press x Press 1/2" - 1"

DIMENSIONS—WEIGHTS—QUANTITIES

S	ize		A	E	3		C)		E	We	ight
In.	mm.	ln.	mm.	In.	mm.	ln.	mm.	In.	mm.	ln.	mm.	Lbs.	Kg.
1/2	12.7	3.11	79.00	1.45	36.80	0.59	15.00	1.39	35.20	2.96	75.20	0.4230	0.1918
3/4	19.05	4.25	108.00	2.15	54.70	0.79	20.00	1.70	43.20	3.51	89.20	0.8020	0.3637
1	25.40	4.25	108.00	2.31	58.70	0.98	25.00	1.90	48.20	3.71	94.20	1.0930	0.4957

IAPMO/ANSI Z1157: in addition to meeting ICG-157 test requirements, the IAPMO/ANSI Z1157 also requires Press ends to be fully tested to IAPMO PS-117 performance requirements which includes the following additional tests:

- 1. Unrestrained Hydrostatic Pressure Test at 20 °C (68°F)
- 2. Unrestrained Hydrostatic Pressure Test at 93 °C (200°F)
- 3. Static Torsion Test for Press Connections
- 4. Bending Test
- 5. Vacuum Test

- 6. Hydraulic Shock (Water Hammer) Test
- 7. Vibration Test
- 8. Thermal Cycling Test
- 9. Alternate Thermal Cycling Test
- 10. Dynamic Torsion Test for Press Connections

†Tested to the performance criteria of ASME B16.51

WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Visit our website for the most current information.



Features: Press End Leak Detection • Two-Piece Body • PTFE Seats • Full Port • Blowout-Proof Stem

Approvals: IAPMO/ANSI Z1157 (IGC-157) ● NSF/ANSI-61 & 372 ● MSS SP-145 ● Conforms to ASME B16.51†

Size range: 1/2" - 1"

Pressure rating: 250 PSI non-shock cold working pressure Maximum pressure / temperature: 225 PSI at 250° F

Lead-Free* markings:

White handle and blue hang tag

Applications: Drinking Water ● Domestic Hot & Cold Water ● HVAC (condensors, chilled water, hot water heating) ● Isolation and Throttling (half-open to full-open only) ● Connect to Rigid Copper Tubing Manufactured per ASTM B88, Condition H (hard drawn)

Reference Press System catalog for updated Approved Tool and Jaw Compatibility Matrix list.

Not intended for steam or gas usage.

MATERIAL LIST

PART	SPECIFICATION
1. Body	Forged DZR Copper Alloy - C46500
2. Seat Seal	PTFE
3. O-ring	EPDM - ASTM D2000
4. Washer	PTFE
5. Lock Nut	Stainless Steel + Nylon
6. Handle	Steel, Plated
7. Stem	Brass
8. Ball	Chrome Plated Brass - C46500 (1/2"-1")
9. End Cap	Forged DZR Copper Alloy - C46500
10. O-ring	EPDM - ASTM D2000

Options:

- Extended lever
- EPDM Seal for Press Ends
- Wing Handle



Handle Markings



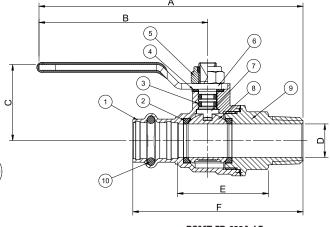






PCMT-FP-600A-LF

Press x MIP 1/2" - 1"



PCMT-FP-600A-LF Press x Male 1/2" - 1"

DIMENSIONS—WEIGHTS—QUANTITIES

	SI	ZE		A B C D		<u> </u>		<u> </u>		F	Weight					
_	ln.	mm.	In.	mm.	In.	mm.	ln.	mm.	ln.	mm.	In.	mm.	In.	mm.	Lbs.	Kg.
-	1/2	12.7	5.30	134.70	3.62	92.00	1.34	34.00	0.59	15.00	1.60	40.70	3.00	76.20	0.4520	0.2050
	3/4	19.05	6.07	154.20	4.13	105.00	2.06	52.20	0.79	20.00	2.00	50.70	3.53	89.70	0.7940	0.3601
	1	25.40	6.29	159.70	4.13	105.00	2.21	56.20	0.98	25.00	2.23	56.70	3.89	98.70	1.1730	0.5320

IAPMO/ANSI Z1157: in addition to meeting ICG-157 test requirements, the IAPMO/ANSI Z1157 also requires Press ends to be fully tested to IAPMO PS-117 performance requirements which includes the following additional tests:

- 1. Unrestrained Hydrostatic Pressure Test at 20 $^{\rm o}{\rm C}$ (68°F)
- 2. Unrestrained Hydrostatic Pressure Test at 93 $^{\circ}\text{C}$ (200°F)
- 3. Static Torsion Test for Press Connections
- 4. Bending Test
- 5. Vacuum Test

- 6. Hydraulic Shock (Water Hammer) Test
- 7. Vibration Test
- 8. Thermal Cycling Test
- 9. Alternate Thermal Cycling Test
- 10. Dynamic Torsion Test for Press Connections

†Tested to the performance criteria of ASME B16.51

WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.



Features: Press End Leak Detection • Two-Piece Body • PTFE Seats • Full Port • Blowout-Proof Stem

Approvals: IAPMO/ANSI Z1157 (IGC-157) • NSF/ANSI-61 & 372 • MSS SP-145 • Conforms to ASME B16.51†

Size range: 1/2" - 1"

Pressure rating: 250 PSI non-shock cold working pressure Maximum pressure / temperature: 225 PSI at 250° F

Lead-Free* markings:

White handle and blue hang tag

Applications: Drinking Water ● Domestic Hot & Cold Water ● HVAC (condensors, chilled water, hot water heating) ● Isolation and Throttling (half-open to full-open only) ● Connect to Rigid Copper Tubing Manufactured per ASTM B88, Condition H (hard drawn)

Reference Press System catalog for updated Approved Tool and Jaw Compatibility Matrix list.

Not intended for steam or gas usage.

MATERIAL LIST

PART	SPECIFICATION
1. Body	Forged DZR Copper Alloy - C46500
2. Seat Seal	PTFE
3. O-ring	EPDM - ASTM D2000
4. Washer	PTFE
5. Lock Nut	Stainless Steel + Nylon
6. Handle	Steel, Plated
7. Stem	Brass
8. Ball	Chrome Plated Brass - C46500
9. End Cap	Forged DZR Copper Alloy - C46500
10. 0-ring	EPDM - ASTM D2000

Options:

- Extended lever
- EPDM Seal for Press Ends
- Wing Handle



Handle Markings



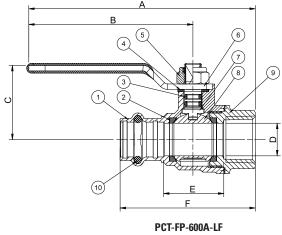






PCT-FP-600A-LF

Press x FIP 1/2" - 1"



Press x FIP 1/2" - 1"

DIMENSIONS—WEIGHTS—QUANTITIES

S	IZE		Α	E	3	(;		0	E		F		Weight	
In.	mm.	In.	mm.	In.	mm.	ln.	mm.	In.	mm.	In.	mm.	In.	mm.	Lbs.	Kg.
1/2	12.7	4.75	120.70	3.62	92.00	1.34	34.00	0.59	15.00	1.09	27.70	2.45	62.20	0.3950	0.1791
3/4	19.05	5.42	137.70	4.13	105.00	2.06	52.20	0.79	20.00	1.37	34.70	2.88	73.20	0.7280	0.3302
1	25.40	5.64	143.20	4.13	105.00	2.21	56.20	0.98	25.00	1.62	41.20	3.24	82.20	1.0520	0.4771

IAPMO/ANSI Z1157: in addition to meeting ICG-157 test requirements, the IAPMO/ANSI Z1157 also requires Press ends to be fully tested to IAPMO PS-117 performance requirements which includes the following additional tests:

- 1. Unrestrained Hydrostatic Pressure Test at 20 °C (68°F)
- 2. Unrestrained Hydrostatic Pressure Test at 93 °C (200°F)
- 3. Static Torsion Test for Press Connections
- 4. Bending Test
- 5. Vacuum Test

- 6. Hydraulic Shock (Water Hammer) Test
- 7. Vibration Test
- 8. Thermal Cycling Test
- 9. Alternate Thermal Cycling Test
- 10. Dynamic Torsion Test for Press Connections

†Tested to the performance criteria of ASME B16.51

WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Visit our website for the most current information.



Features: Press End Leak Detection ● Side Drain/Bleeder ● Two-Piece Body ● PTFE Seats ● Full Port ● Blowout-Proof Stem

Approvals: IAPMO/ANSI Z1157 (IGC-157) • NSF/ANSI-61 & 372 • MSS SP-145 • Conforms to ASME B16.51†

Size range: 1/2" - 1"

Pressure rating: 250 PSI non-shock cold working pressure Maximum pressure / temperature: 225 PSI at 250° F

Lead-Free* markings:

White handle and blue hang tag

Applications: Drinking Water ● Domestic Hot & Cold Water ● HVAC (condensors, chilled water, hot water heating) ● Isolation and Throttling (half-open to full-open only) ● Connect to Rigid Copper Tubing Manufactured per ASTM B88, Condition H (hard drawn)

Reference Press System catalog for updated Approved Tool and Jaw Compatibility Matrix list.

Not intended for steam or gas usage.

MATERIAL LIST

	PART	SPECIFICATION
1.	Body	Forged DZR Copper Alloy - C46500
2.	Seat Seal	PTFE
3.	O-ring	EPDM - ASTM D2000
4.	Washer	PTFE
5.	Lock Nut	Stainless Steel + Nylon
6.	Handle	Steel, Plated
7.	Stem	Brass
8.	Ball	Chrome Plated Brass - C46500
9.	End Cap	Forged DZR Copper Alloy - C46500
10.	O-ring	EPDM - ASTM D2000
11.	Washer	EPDM
12.	Nut	Brass

Options:

- Extended lever
- EPDM Seal for Press Ends
- Wing Handle



Handle Markings



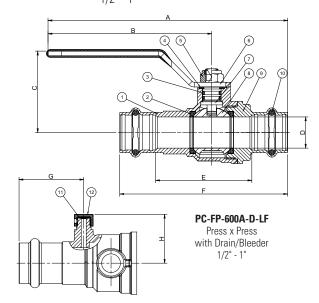






PC-FP-600A-D-LF

Press x Press with Drain/Bleeder 1/2" - 1"



DIMENSIONS—WEIGHTS—QUANTITIES

S	IZE		Α		В		C		D		E F			G		Н	Weight		
In.	mm.	ln.	mm.	In.	mm.	In.	mm.	ln.	mm.	ln.	mm.	In.	mm.	In.	mm.	In.	mm.	Lbs.	Kg.
1/2	12.7	5.26	133.70	3.62	92.00	1.34	34.00	0.59	15.00	2.15	54.70	3.73	94.70	2.09	53.00	1.44	36.50	0.5220	0.2368
3/4	19.05	6.05	153.70	4.13	105.00	2.06	52.20	0.79	20.00	2.43	61.70	4.24	107.70	2.32	59.00	1.44	36.50	0.8800	0.3991
1	25.40	6.11	155.20	4.13	105.00	2.21	56.20	0.98	25.00	2.61	66.20	4.42	112.20	2.44	62.00	1.59	40.50	1.2610	0.5719

IAPMO/ANSI Z1157: in addition to meeting ICG-157 test requirements, the IAPMO/ANSI Z1157 also requires Press ends to be fully tested to IAPMO PS-117 performance requirements which includes the following additional tests:

- 1. Unrestrained Hydrostatic Pressure Test at 20 $^{\circ}\text{C}$ (68°F)
- 2. Unrestrained Hydrostatic Pressure Test at 93 °C (200°F)
- 3. Static Torsion Test for Press Connections
- 4. Bending Test
- 5. Vacuum Test

- 6. Hydraulic Shock (Water Hammer) Test
- 7. Vibration Test
- 8. Thermal Cycling Test
- 9. Alternate Thermal Cycling Test
- 10. Dynamic Torsion Test for Press Connections

MARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more

information go to www.P65Warnings.ca.gov.

Visit our website for the most current information.

†Tested to the performance criteria of ASME B16.51



Features: Press End Leak Detection ● 3/4" Hose Connection w/Cap ● Two-Piece Body ● PTFE Seats ● Full Port ● Blowout-Proof Stem

Approvals: IAPMO/ANSI Z1157 (IGC-157) • NSF/ANSI-61 & 372 • MSS SP-145 • Conforms to ASME B16.51†

Size range: 1/2" - 3/4"

Pressure rating: 250 PSI non-shock cold working pressure Maximum pressure / temperature: 225 PSI at 250° F

Lead-Free* markings:

White handle and blue hang tag

Applications: Drinking Water • Domestic Hot & Cold Water • HVAC (condensors, chilled water, hot water heating) • Isolation and Throttling (half-open to full-open only) • Connect to Rigid Copper Tubing Manufactured per ASTM B88, Condition H (hard drawn)

Reference Press System catalog for updated Approved Tool and Jaw Compatibility Matrix list.

Not intended for steam or gas usage.

MATERIAL LIST

	PART	SPECIFICATION
1.	Body	Forged DZR Copper Alloy - C46500
2.	Seat Seal	PTFE
3.	O-ring	EPDM - ASTM D2000
4.	Washer	PTFE
5.	Lock Nut	Stainless Steel + Nylon
6.	Handle	Steel, Plated
7.	Stem	Brass
8.	Ball	Chrome Plated Brass - C46500
9.	End Cap	Forged DZR Copper Alloy - C46500
10.	O-ring	EPDM - ASTM D2000
11.	Washer	EPDM
12.	Nut	Brass
13.	Cap Retainer	NBR

Options:

- Extended lever
- **EPDM Seal for Press Ends**
- Wing Handle



Handle Markings



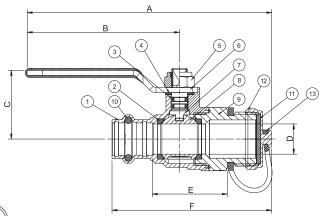






PC-FP-600A-LF-HC

Press x Hose Cap 1/2" - 3/4"



PC-FP-600A-LF-HC Press x Hose Cap 1/2" - 3/4"

†Tested to the performance criteria of ASME B16.51

DIMENSIONS—WEIGHTS—QUANTITIES

SIZE		Α		В		С		D		E		F		Weight	
In.	mm.	In.	mm.	In.	mm.	ln.	mm.	In.	mm.	In.	mm.	In.	mm.	Lbs.	Kg.
1/2	12.7	4.51	114.50	3.62	92.00	1.34	34.00	0.59	15.00	1.46	37.20	3.11	79.00	0.5220	0.2368
3/4	19.05	5.10	129.50	4.13	105.00	2.06	52.20	0.79	20.00	1.74	44.20	3.52	89.50	0.8090	0.3669

IAPMO/ANSI Z1157: in addition to meeting ICG-157 test requirements, the IAPMO/ANSI Z1157 also requires Press ends to be fully tested to IAPMO PS-117 performance requirements which includes the following additional tests:

- 1. Unrestrained Hydrostatic Pressure Test at 20 °C (68°F)
- 2. Unrestrained Hydrostatic Pressure Test at 93 °C (200°F)
- 3. Static Torsion Test for Press Connections 4. Bending Test
- 5. Vacuum Test

- 6. Hydraulic Shock (Water Hammer) Test
- 7. Vibration Test
- 8. Thermal Cycling Test
- 9. Alternate Thermal Cycling Test
- 10. Dynamic Torsion Test for Press Connections

WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Visit our website for the most current information.

Features: Press End Leak Detection ● PEX end F1960 Cold Expansion ● Two-Piece Body ● PTFF Seats ● Blowout-Proof Stem

Approvals: IAPMO/ANSI Z1157 (IGC-157) ● NSF/ANSI-14 61 & 372 ● MSS SP-145 ● Conforms to ASME B16.51†

Size range: 1/2" - 2"

Pressure rating: 250 PSI non-shock cold working pressure Maximum pressure / temperature: 225 PSI at 250° F

Lead-Free* markings: White handle and blue hang tag

Applications: Drinking Water ● Domestic Hot & Cold Water ● HVAC (condensors, chilled water, hot water heating) ● Isolation and Throttling (half-open to full-open only) ● Connect to Rigid Copper Tubing Manufactured per ASTM B88, Condition H (hard drawn)

Reference Press System catalog for updated Approved Tool and Jaw Compatibility Matrix list.

Not intended for steam or gas usage.

MATERIAL LIST

PART	SPECIFICATION
1. Body	Forged DZR Copper Alloy - C46500
2. Seat Seal	PTFE
3. O-ring	EPDM - ASTM D2000
4. Washer	PTFE
5. Lock Nut	Stainless Steel + Nylon
6. Handle	Steel, Plated
7. Stem	Brass
8. Ball	Chrome Plated Brass - C46500 (1/2"-1")
	Stainless Steel 316 (11/4"-2")
9. End Cap	Forged DZR Copper Alloy - C69300
10. O-ring	EPDM - ASTM D2000
11. Metal Ring	Stainless Steel (1-1/4"-2")‡

Options:

- · Extended lever
- EPDM Seal for Press Ends
- Wing Handle



Handle Markings





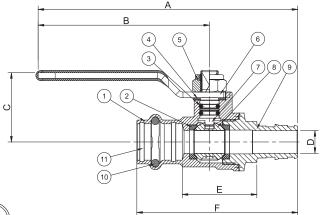




PCPXA-FP-600A-LF

Press x PEX (F1960 - Cold Expansion)

1/2" - 2" Patent Pending sizes 1-1/4" - 2"



PCPXA-FP-600A-LF

Press x PEX (F1960 - Cold Expansion) 1/2" - 2" ††

DIMENSIONS—WEIGHTS—QUANTITIES

SIZE		A		B		C		D		E		F		Weight	
ln.	mm.	In.	mm.	ln.	mm.	ln.	mm.	ln.	mm.	In.	mm.	In.	mm.	Lbs.	Kg.
1/2	12.7	5.15	130.90	3.62	92.00	1.20	30.55	0.39	10.00	1.30	32.90	2.79	70.90	0.3400	0.1542
3/4	19.05	5.48	139.20	3.62	92.00	1.34	34.00	0.60	15.30	1.48	37.70	3.33	84.70	0.5090	0.2308
1	25.40	6.37	161.70	4.13	105.00	2.06	52.20	0.79	20.00	1.74	44.20	3.83	97.20	0.8620	0.3909
1 1/4															
1 1/2							(Coming So	on						
2															

IAPMO/ANSI Z1157: in addition to meeting ICG-157 test requirements, the IAPMO/ANSI Z1157 also requires Press ends to be fully tested to IAPMO PS-117 performance requirements which includes the following additional tests:

- 1. Unrestrained Hydrostatic Pressure Test at 20 °C (68°F)
- 2. Unrestrained Hydrostatic Pressure Test at 93 °C (200°F)
- 3. Static Torsion Test for Press Connections
- 4. Bending Test
- 5. Vacuum Test

- 6. Hydraulic Shock (Water Hammer) Test
- 7. Vibration Test
- 8. Thermal Cycling Test
- 9. Alternate Thermal Cycling Test
- 10. Dynamic Torsion Test for Press Connections

*Weighted average lead content < 0.25%

†Tested to the performance criteria of ASME B16.51

††Patent Pending

WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.



Features: Press End Leak Detection ● PEX End F1807 Crimp ● Two-Piece Body ● PTFE Seats ● Blowout-Proof Stem

Approvals: IAPMO/ANSI Z1157 (IGC-157) ● NSF/ANSI-14 61 & 372 ● MSS SP-145 ● Conforms to ASME B16.51†

Size range: 1/2" - 2"

Pressure rating: 250 PSI non-shock cold working pressure Maximum pressure / temperature: 225 PSI at 250° F

Lead-Free* markings:

White handle and blue hang tag

Applications: Drinking Water • Domestic Hot & Cold Water • HVAC (condensors, chilled water, hot water heating) • Isolation and Throttling (half-open to full-open only) • Connect to Rigid Copper Tubing Manufactured per ASTM B88, Condition H (hard drawn)

Reference Press System catalog for updated Approved Tool and Jaw Compatibility Matrix list.

Not intended for steam or gas usage.

MATERIAL LIST

PART	SPECIFICATION
1. Body	Forged DZR Copper Alloy - C46500
2. Seat Seal	PTFE
3. O-ring	EPDM - ASTM D2000
4. Washer	PTFE
5. Lock Nut	Stainless Steel + Nylon
6. Handle	Steel, Plated
7. Stem	Brass
8. Ball	Chrome Plated Brass - C46500 (1/2"-1")
	Stainless Steel 316 (11/4"-2")
9. End Cap	Forged DZR Copper Alloy - C69300
10. O-ring	EPDM - ASTM D2000
11. Metal Ring	Stainless Steel (1-1/4"-2") [‡]

Options:

- Extended lever
- **EPDM Seal for Press Ends**
- Wing Handle



Handle Markings

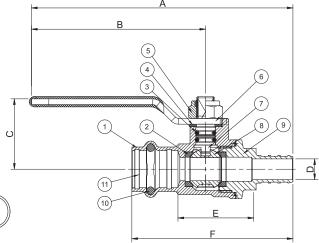




PCPX-FP-600A-LF

Press x PEX (F1807 - Crimp)

1/2" - 2" Patent Pending sizes 1-1/4" - 2"



PCPX-FP-600A-LF

Press x PEX (F1807 - Crimp)

*Weighted average lead content ≤ 0.25%

††Patent Pending

†Tested to the performance criteria of ASME B16.51

1/2" - 2" ††

DIMENSIONS—WEIGHTS—QUANTITIES

				_											
SI	SIZE		Α		В		С		D		E		F		ight
ln.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	Lbs.	Kg.
1/2	12.7	5.11	129.90	3.62	92.00	1.20	30.55	0.39	10.00	1.30	32.90	2.75	69.90	0.3280	0.1487
3/4	19.05	5.19	131.70	3.62	92.00	1.34	34.00	0.60	15.30	1.50	38.20	3.04	77.20	0.4810	0.2181
1	25.40	5.97	151.70	4.13	105.00	2.06	52.20	0.80	20.30	1.72	43.70	3.43	87.20	0.7850	0.3560
1 1/4															
1 1/2		Coming Soon													
2															

IAPMO/ANSI Z1157: in addition to meeting ICG-157 test requirements, the IAPMO/ANSI Z1157 also requires Press ends to be fully tested to IAPMO PS-117 performance requirements which includes the following additional tests:

- 1. Unrestrained Hydrostatic Pressure Test at 20 °C (68°F)
- 2. Unrestrained Hydrostatic Pressure Test at 93 °C (200°F)
- 3. Static Torsion Test for Press Connections
- 4. Bending Test
- 5. Vacuum Test

- 6. Hydraulic Shock (Water Hammer) Test
- 7. Vibration Test
- 8. Thermal Cycling Test
- 9. Alternate Thermal Cycling Test
- 10. Dynamic Torsion Test for Press Connections

WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.



NIBCO® Press System Lead-Free* Brass Ball Valves

Features: Press End Leak Detection ● FIP Union ● Two-Piece Body ● PTFE Seats ● Full Port ● Blowout-Proof Stem

Approvals: IAPMO/ANSI Z1157 (IGC-157) ● NSF/ANSI-61 & 372 ● MSS SP-145 ● Conforms to ASME B16.51†

Size range: 1/2" - 1"

Pressure rating: 250 PSI non-shock cold working pressure Maximum pressure / temperature: 225 PSI at 250° F

Lead-Free* markings:

White handle and blue hang tag

Applications: Drinking Water ● Domestic Hot & Cold Water ● HVAC (condensors, chilled water, hot water heating) ● Isolation and Throttling (half-open to full-open only) ● Connect to Rigid Copper Tubing Manufactured per ASTM B88, Condition H (hard drawn)

Reference Press System catalog for updated Approved Tool and Jaw Compatibility Matrix list.

Not intended for steam or gas usage.

MATERIAL LIST

	PART	SPECIFICATION
1.	Body	Forged DZR Copper Alloy - C46500
2.	Seat Seal	PTFE
3.	O-ring	EPDM - ASTM D2000
4.	Washer	PTFE
5.	Lock Nut	Stainless Steel + Nylon
6.	Handle	Steel, Plated
7.	Stem	Brass
8.	Ball	Chrome Plated Brass - C46500
9.	End Cap	Forged DZR Copper Alloy - C46500
10.	O-ring	EPDM - ASTM D2000
11.	Fitting	Forged DZR Copper Alloy - C46500
12.	Washer	EPDM
13.	Nut	Brass

Options:

- Extended lever
- EPDM Seal for Press Ends
- Wing Handle



Handle Markings



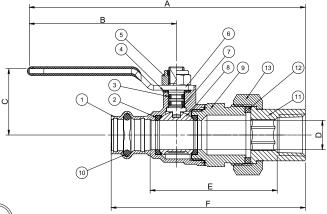






PCFU-FP-600A-LF

Press x FIP Union 1/2" - 1"



PCFU-FP-600A-LF Press x FIP Union 1/2" - 1"

DIMENSIONS—WEIGHTS—QUANTITIES

S	SIZE		Α		3	C		D		E		F		Weight	
In.	mm.	In.	mm.	In.	mm.	ln.	mm.	ln.	mm.	In.	mm.	In.	mm.	Lbs.	Kg.
1/2	12.7	6.23	158.20	3.62	92.00	1.34	34.00	0.59	15.00	2.57	65.20	3.93	99.70	0.7720	0.3501
3/4	19.05	6.92	175.70	4.13	105.00	2.06	52.20	0.79	20.00	2.84	72.20	4.38	111.20	1.2040	0.5461
1	25.40	7.17	182.20	4.13	105.00	2.21	56.20	0.98	25.00	3.11	79.00	4.77	121.20	1.7750	0.8051

IAPMO/ANSI Z1157: in addition to meeting ICG-157 test requirements, the IAPMO/ANSI Z1157 also requires Press ends to be fully tested to IAPMO PS-117 performance requirements which includes the following additional tests:

- 1. Unrestrained Hydrostatic Pressure Test at 20 °C (68°F)
- 2. Unrestrained Hydrostatic Pressure Test at 93 $^{\circ}\text{C}$ (200°F)
- 3. Static Torsion Test for Press Connections
- 4. Bending Test
- 5. Vacuum Test

- 6. Hydraulic Shock (Water Hammer) Test
 - 7. Vibration Test
 - 8. Thermal Cycling Test
- 9. Alternate Thermal Cycling Test
- 10. Dynamic Torsion Test for Press Connections

†Tested to the performance criteria of ASME B16.51

WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.



NIBCO® Press System Lead-Free* Brass Ball Valves

Features: Press Ends Leak Detection • MIP Union • Two-Piece Body • PTFE Seats • Full Port • Blowout-Proof Stem

Approvals: IAPMO/ANSI Z1157 (IGC-157) ● NSF/ANSI-61 & 372 ● MSS SP-145 ● Conforms to ASME B16.51†

Size range: 1/2" - 1"

Pressure rating: 250 PSI non-shock cold working pressure Maximum pressure / temperature: 225 PSI at 250° F

Lead-Free* markings:

White handle and blue hang tag

Applications: Drinking Water • Domestic Hot & Cold Water • HVAC (condensors, chilled water, hot water heating) • Isolation and Throttling (half-open to full-open only) • Connect to Rigid Copper Tubing Manufactured per ASTM B88, Condition H (hard drawn)

Reference Press System catalog for updated Approved Tool and Jaw Compatibility Matrix list.

Not intended for steam or gas usage.

MATERIAL LIST

	PART	SPECIFICATION
1.	Body	Forged DZR Copper Alloy - C46500
2.	Seat Seal	PTFE
3.	O-ring	EPDM - ASTM D2000
4.	Washer	PTFE
5.	Lock Nut	Stainless Steel + Nylon
6.	Handle	Steel, Plated
7.	Stem	Brass
8.	Ball	Chrome Plated Brass - C46500
9.	End Cap	Forged DZR Copper Alloy - C46500
10.	O-ring	EPDM - ASTM D2000
11.	Fitting	Forged DZR Copper Alloy - C46500
12.	Washer	EPDM
13.	Nut	Brass

Options:

- Extended lever
- **EPDM Seal for Press Ends**
- Wing Handle



Handle Markings



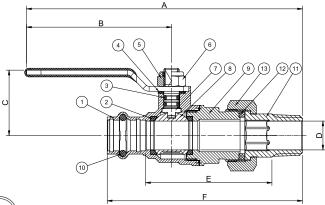






PCMU-FP-600A-LF

Press x MIP Union 1/2" - 1"



PCMU-FP-600A-LF Press x MIP Union 1/2" - 1"

DIMENSIONS—WEIGHTS—QUANTITIES

SIZ	SIZE		A		B		C		D		E		F		Weight	
In.	mm.	In.	mm.	ln.	mm.	ln.	mm.	ln.	mm.	In.	mm.	In.	mm.	Lbs.	Kg.	
1/2	12.7	6.31	160.20	3.62	92.00	1.34	34.00	0.59	15.00	2.60	66.00	4.00	101.70	0.6720	0.3048	
3/4	19.05	6.92	175.70	4.13	105.00	2.06	52.20	0.79	20.00	2.81	71.50	4.38	111.20	1.0580	0.4799	
1	25.40	7.13	181.20	4.13	105.00	2.21	56.20	0.98	25.00	3.05	77.50	4.73	120.20	1.5790	0.7162	
3/4" x 1/2"	Coming Soon															

IAPMO/ANSI Z1157: in addition to meeting ICG-157 test requirements, the IAPMO/ANSI Z1157 also requires Press ends to be fully tested to IAPMO PS-117 performance requirements which includes the following additional tests:

- 1. Unrestrained Hydrostatic Pressure Test at 20 °C (68°F)
- 2. Unrestrained Hydrostatic Pressure Test at 93 °C (200°F)
- 3. Static Torsion Test for Press Connections
- 4. Bending Test
- 5. Vacuum Test

- 6. Hydraulic Shock (Water Hammer) Test
- 7. Vibration Test
- 8. Thermal Cycling Test
- 9. Alternate Thermal Cycling Test
- 10. Dynamic Torsion Test for Press Connections

†Tested to the performance criteria of ASME B16.51

WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Visit our website for the most current information.

*Weighted average lead content ≤ 0.25%



NIBCO® Press System Lead-Free* Brass Ball Valves

Features: Press End Leak Detection • Solder Union • Two-Piece Body • PTFE Seats • Full Port • Blowout-Proof Stem

Approvals: IAPMO/ANSI Z1157 (IGC-157) ● NSF/ANSI-61 & 372 ● MSS SP-145 ● Conforms to ASME B16.51†

Size range: 1/2" - 1"

Pressure rating: 250 PSI non-shock cold working pressure Maximum pressure / temperature: 225 PSI at 250° F

Lead-Free* markings:

White handle and blue hang tag

Applications: Drinking Water • Domestic Hot & Cold Water • HVAC (condensors, chilled water, hot water heating) • Isolation and Throttling (half-open to full-open only) • Connect to Rigid Copper Tubing Manufactured per ASTM B88, Condition H (hard drawn)

Reference Press System catalog for updated Approved Tool and Jaw Compatibility Matrix list.

Not intended for steam or gas usage.

MATERIAL LIST

	PART	SPECIFICATION
1.	Body	Forged DZR Copper Alloy - C46500
2.	Seat Seal	PTFE
3.	0-ring	EPDM - ASTM D2000
4.	Washer	PTFE
5.	Lock Nut	Stainless Steel + Nylon
6.	Handle	Steel, Plated
7.	Stem	Brass
8.	Ball	Chrome Plated Brass - C46500
9.	End Cap	Forged DZR Copper Alloy - C46500
10.	O-ring	EPDM - ASTM D2000
11.	Fitting	Forged DZR Copper Alloy - C46500
12.	Washer	EPDM
13.	Nut	Brass

Options:

- Extended lever
- **EPDM Seal for Press Ends**
- Wing Handle



Handle Markings



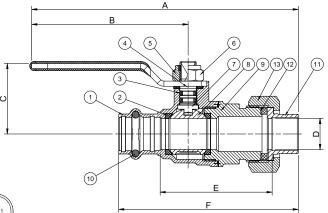






PCSU-FP-600A-LF

Press x Solder Union 1/2" - 1"



PCSU-FP-600A-LF

Press x Solder Union 1/2" - 1"

DIMENSIONS—WEIGHTS—QUANTITIES

S	SIZE		A		3	C		D		E		F		Weight	
In.	mm.	In.	mm.	In.	mm.	ln.	mm.	ln.	mm.	In.	mm.	In.	mm.	Lbs.	Kg.
1/2	12.7	5.72	145.20	3.62	92.00	1.34	34.00	0.59	15.00	2.13	54.10	3.41	86.70	0.6130	0.2780
3/4	19.05	6.64	168.70	4.13	105.00	2.06	52.20	0.79	20.00	2.44	62.10	4.10	104.20	1.0010	0.4540
1	25.40	6.90	175.20	4.13	105.00	2.21	56.20	0.98	25.00	2.68	68.10	4.50	114.20	1.4880	0.6749

IAPMO/ANSI Z1157: in addition to meeting ICG-157 test requirements, the IAPMO/ANSI Z1157 also requires Press ends to be fully tested to IAPMO PS-117 performance requirements which includes the following additional tests:

- 1. Unrestrained Hydrostatic Pressure Test at 20 °C (68°F)
- 2. Unrestrained Hydrostatic Pressure Test at 93 °C (200°F)
- 3. Static Torsion Test for Press Connections
- 4. Bending Test
- 5. Vacuum Test

- 6. Hydraulic Shock (Water Hammer) Test
- 7. Vibration Test
- 8. Thermal Cycling Test
- 9. Alternate Thermal Cycling Test
- 10. Dynamic Torsion Test for Press Connections

†Tested to the performance criteria of ASMF B16.51

WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

AHEAD OF THE FLOW®

NIBCO® Press System Bronze Gate Valves

Screw-In Bonnet • Rising Stem • Solid Wedge

200 PSI/13.8 bar non-shock cold working pressure 250°F maximum operating temperature

CONFORMS TO MSS SP-80

MATERIAL LIST

	PART	SPECIFICATION
1.	Handwheel Nut	300 Series Stainless Steel
2.	Identification Plate	Aluminum
3.	Handwheel	Malleable Iron ASTM A 47
4.	Stem	Silicon Bronze ASTM B 371 Alloy C69430
		or ASTM B 99 Alloy C65100
5.	Pack Nut	Brass ASTM B 16 Alloy C36000
6.	Pack Gland	Brass ASTM B 16 Alloy C36000
7.	Packing	Aramid Fibers with Graphite
8.	Bonnet	Bronze ASTM B 62 Alloy C83600
9.	Body Assembly	Bronze ASTM B 62 Alloy C83600
10.	Wedge	Bronze ASTM B 62 Alloy C83600
11.	Female Adapter (2)	Bronze ASTM B 61 Alloy C92200
12.	O-Ring (2)	EPDM



Size			Α	В			C	Weight		
In.	mm.	ln.	mm.	ln.	mm.	ln.	mm.	Lbs.	Kg.	
1/2 †	15	1.97	50	4.81	122	.50	13	.84	.38	
3/4	20	2.62	67	5.81	148	.75	19	1.30	.59	
_1	25	3.07	78	7.09	180	1.00	25	2.09	.95	
1 1/4	32	3.36	85	8.13	206	1.25	32	2.95	1.34	
1 1/2	40	3.70	94	9.81	249	1.50	38	4.16	1.89	
2	50	4.28	109	11.56	294	2.00	51	6.79	3.09	

[†] No packing gland, packing only in this size.

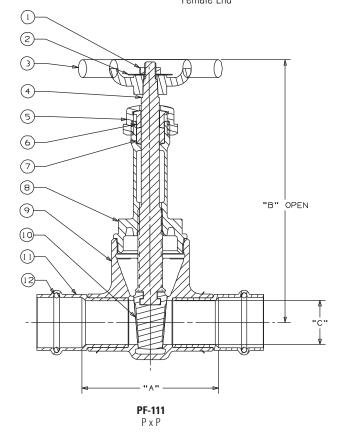
NIBCO Press System gate valves are designed to meet MSS SP-80 with the exception of the end connection. Male and female press-to-connect ends are new technology not yet covered in the current edition of this specification.

WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.





PF-111 Press x Press Female End



NSF/ANSI 372



NIBCO® Press System Lead-Free* Bronze Gate Valves

Silicon Performance Bronze® Alloy • Screw-In Bonnet • Rising Stem • Conforms to MSS SP-139 • Solid Wedge • Press Ends Leak Detection

Pressure rating: 250[†] PSI non-shock cold working pressure Maximum pressure / temperature: 180 PSI at 200° F

Lead-free* markings:

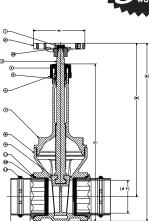
Double oval in body casting, white handle and blue hang tag

NSF/ANSI-61-8 Commercial Hot 180°F (includes Annex F and G) ◆ NSF/ANSI-372

MATERIAL LIST

	PART	SPECIFICATION
1.	Handwheel Nut	300 Series Stainless Steel
2.	Handwheel	Malleable Iron ASTM A47, 35018
3.	Stem	Silicon Bronze ASTM B371 Alloy C69430
4.	Packing Gland	ASTM B16 C36000
5.	Stem Packing	Aramid Fibers with Graphite
6.	Packing Nut	ASTM B16 C36000
7.	Bonnet	Silicon Bronze ASTM B584 Alloy C87850
8.	Body	Silicon Bronze ASTM B584 Alloy C87850
9.	Wedge	Silicon Bronze ASTM B584 Alloy C87850
10.	Identification Plate	Aluminum
11.	Boss seal o-ring (2)	EPDM
12.	Press End Adapter (2)	Wrot Copper ASTM B75 Alloy C12200
13.	Leak Detect O-Ring (2)	EPDM





Dezincification Resistant

PC-111-LF Press x Press Female End

DIMENSIONS—WEIGHTS—QUANTITIES

SIZ	ZE		Α		3		C)		<u> </u>		F		G		H	We	ight	Master
ln.	mm.	ln.	mm.	In.	mm.	In.	mm.	ln.	mm.	ln.	mm.	In.	mm.	In.	mm.	In.	mm.	Lbs.	Kg.	Ctn Qty.
1/2†	15	3.68	93.47	4.85	123	2.28	57.9	3.92	100	4.82	122	0.5	13	0.7	17.78	2.44	62	0.96	0.43	50
3/4	20	4.28	108.7	5.89	150	2.36	60	4.93	125	5.74	146	0.75	19	0.96	24	2.44	62	1.38	0.62	25
1	25	4.62	117.3	7.21	183	2.85	72.4	5.95	151	6.93	176	1.00	25	0.88	22.35	3.19	81	2.18	0.99	20
1-1/4	32	5.1	129.5	8.20	208	3.08	78.23	6.69	170	7.84	199	1.25	32	1.01	25.65	3.19	81	3.15	1.43	10
1-1/2	40	6.18	157	9.40	239	3.41	86.6	7.51	191	8.94	227	1.50	38	1.38	35	4.42	112.3	4.5	2.04	10
2	50	6.44	163.6	11.54	293	3.42	86.9	9.65	245	10.84	275	2.00	51	1.51	38.3	4.42	112.3	6.7	3.04	4
2-1/2	65	7.56	192	14.4	366	4.62	117.3	11.86	301	13.52	343	2.50	64	1.47	37.3	4.42	112.3	11.9	5.4	4
3	80	8.49	215.6	16.6	422	5.17	131.3	13.89	353	15.65	398	3.00	76	1.66	42.2	5.28	134.1	18.6	8.44	4

^{† 200} PSI for 2 1/2" and 3"

WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

[‡] No packing gland, packing only in this size.



AHEAD OF THE FLOW®

NIBCO® Press System Bronze Gate Valves

Screw-In Bonnet • Non-Rising Stem • Solid Wedge

200 PSI/13.8 bar non-shock cold working pressure 250°F maximum operating temperature

CONFORMS TO MSS SP-80

MATERIAL LIST

	WAILMAL LIST											
	PART	SPECIFICATION										
1.	Handwheel Nut	300 Series Stainless Steel										
2.	Identification Plate	Aluminum										
3.	Handwheel	Malleable Iron ASTM A 47										
4.	Stem	Silicon Bronze ASTM B 371 Alloy C69430										
		or ASTM B 99 Alloy C65100										
5.	Pack Nut	Brass ASTM B 16 Alloy C36000										
6.	Pack Gland	Brass ASTM B 16 Alloy C36000										
7.	Packing	Aramid Fibers with Graphite										
8.	Stuffing Box	Bronze ASTM B 62 Alloy C83600										
9.	Bonnet	Bronze ASTM B 62 Alloy C83600										
10.	Body Assembly	Bronze ASTM B 62 Alloy C83600										
11.	Wedge	Bronze ASTM B 62 Alloy C83600										
12.	Female Adapter (2)	Bronze ASTM B 61 Alloy C92200										
13.	O-Ring (2)	EPDM										



				Dimer	nsions					
Size			A		3		C	Weight		
ln.	mm.	ln.	mm.	ln.	mm.	ln.	mm.	Lbs.	Kg.	
1/2 †	15	1.97	50	3.63	92	.50	13	.78	.36	
3/4	20	2.62	67	3.91	99	.75	19	1.21	.55	
1	25	3.07	78	4.69	119	1.00	25	1.92	.88	
1 1/4	32	3.36	85	5.22	133	1.25	32	2.69	1.22	
1 ½	40	3.70	94	6.25	159	1.50	38	3.91	1.78	
2	50	4.28	109	7.06	179	2.00	51	6.21	2.83	

[†] No packing gland, packing only in this size.

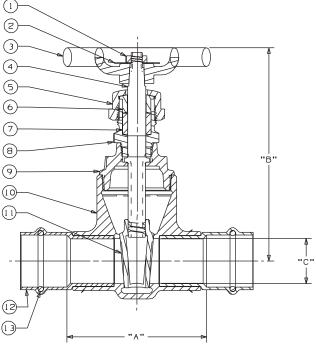
NIBCO Press System gate valves are designed to meet MSS SP-80 with the exception of the end connection. Male and female pressto-connect ends are new technology not yet covered in the current edition of this specification.

WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.





PF-113 Press x Press Female End



PF-113 PxP



NIBCO® Press System Lead-Free* Bronze Gate Valves

Silicon Performance Bronze[®] Alloy • Screw-In Bonnet • Non-Rising Stem • Conforms to MSS SP-139 • Solid Wedge • Press Ends Leak Detection

Pressure rating: 250[†] PSI non-shock cold working pressure Maximum pressure / temperature: 180 PSI at 200° F

Lead-free* markings:

Double oval in body casting, white handle and blue hang tag

NSF/ANSI-61-8 COMMERCIAL HOT 180°F (INCLUDES ANNEX F AND G) ◆ NSF/ANSI-372

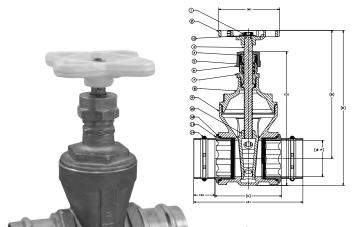
MATERIAL LIST

PART	SPECIFICATION
1. Handwheel Nut	300 Series Stainless Steel
2. Handwheel	Malleable Iron ASTM A47, 35018
3. Stem	Silicon Bronze ASTM B371 Alloy C69430
4. Packing Gland	ASTM B16 C36000
5. Stem Packing	Aramid Fibers with Graphite
6. Packing Nut	ASTM B16 C36000
7. Stuffing Box	Silicon Bronze ASTM B584 Alloy C87850
8. Bonnet	Silicon Bronze ASTM B584 Alloy C87850
9. Body	Silicon Bronze ASTM B584 Alloy C87850
10. Wedge	Silicon Bronze ASTM B584 Alloy C87850
11. Identification Plate	Aluminum
12. Boss seal o-ring (2)	EPDM
13. Press End Adapter (2)	Wrot Copper ASTM B75 Alloy C12200
14. Leak Detect O-Ring (2)	EPDM









PC-113-LF Press x Press Female End

DIMENSIONS—WEIGHTS—QUANTITIES

SI	ZE		A		В		C		D		Ε		F		G		Н	Wei	ight	Master
ln.	mm.	In.	mm.	In.	mm.	In.	mm.	ln.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	Lbs.	Kg.	Ctn Qty.
1/2 [†]	15	3.68	93.47	3.66	93	2.28	57.9	3.34	84.84	4.24	107.7	0.5	13	0.7	17.78	2.44	62	0.91	0.41	30
3/4	20	4.24	107.7	3.94	100	2.36	59.9	3.85	97.8	4.64	118	0.75	19	0.96	24	2.44	62	1.28	0.58	25
1	25	4.62	117.3	4.62	117.3	2.85	72.4	4.69	119	5.52	140	1.00	25	0.88	22.35	3.19	81	2.09	0.95	20
1-1/4	32	5.1	129.5	5.19	132	3.08	78.2	5.26	133.6	6.25	159	1.25	32	1.01	25.65	3.19	81	3.03	1.37	10
1-1/2	40	6.18	157	6.3	160	3.41	86.6	6.07	154.2	7.5	191	1.50	38	1.38	35	4.42	112.3	4.18	1.9	10
2	50	6.44	163.6	7.09	180	3.42	86.9	7.33	186.2	8.59	218	2.00	51	1.51	38.3	4.42	112.3	6.1	2.77	4
2-1/2	65	7.56	192	8.88	226	4.62	117.3	9.28	235.7	10.69	272	2.50	64	1.47	37.3	4.42	112.3	11.2	5.08	4
3	80	8.49	215.6	10.24	2.6	5.17	131.3	10.71	272	12.5	318	3.00	76	1.66	42.2	5.28	134.1	17.37	7.89	4

^{† 200} PSI for 2 1/2" and 3"

WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

[‡] No packing gland, packing only in this size.

Dezincification

Resistant



AHEAD OF THE FLOW®

NIBCO® Press System Bronze Globe Valves

Screw-In Bonnet • Integral Seat • Renewable Seat and Disc

200 PSI/13.8 bar non-shock cold working pressure 250°F maximum operating temperature

CONFORMS TO MSS SP-80

MATERIAL LIST

	IVIA	I EKIAL LIÐ I
	PART	SPECIFICATION
1.	Handwheel Nut	300 Series Stainless Steel
2.	Identification Plate	Aluminum
3.	Handwheel	Malleable Iron ASTM A 47
4.	Stem	Silicon Bronze ASTM B 371 Alloy C69430
5.	Pack Gland	Brass ASTM B 16 Alloy C36000
6.	Pack Nut	Brass ASTM B 16 Alloy C36000
7.	Packing	Aramid Fibers with Graphite
8.	Bonnet	Bronze ASTM B 62 Alloy C83600
9.	Disc Holder Nut	Bronze ASTM B 62 Alloy C83600
10.	Disc Holder	Bronze ASTM B 62 Alloy C83600
11.	Disc	PTFE
12.	Disc Washer	304 Stainless Steel
13.	Disc Nut	Bronze ASTM B 98 Alloy C65100
14.	Body Assembly	Bronze ASTM B62 Alloy C83600
15.	Female Adapter (2)	Bronze ASTM B 61 Alloy C92200
16.	0-Ring (2)	EPDM



				Dime	nsions				
Siz	ze		Α		3		C	We	eight
In.	mm.	ln.	mm.	ln.	mm.	ln.	mm.	Lbs.	Kg.
*1/2	15	2.91	74	3.38	86	.50	13	1.07	.48
3/4	20	3.99	101	4.88	124	.75	19	2.04	.93
1	25	4.88	124	5.69	145	1.00	25	3.13	1.42
1 1/4	32	5.23	133	6.13	156	1.25	32	4.00	1.82
1 ½	40	6.01	153	7.38	187	1.50	38	6.44	2.93
2	50	7.41	188	7.94	202	2.00	51	10.16	4.62

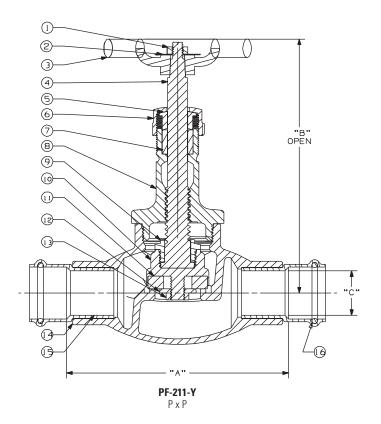
[†] No packing gland, packing only in this size.

NIBCO Press System globe valves are designed to meet MSS SP-80 with the exception of the end connection. Male and female press-to-connect ends are new technology not yet covered in the current edition of this specification.

WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.



PF-211-Y
Press x Press
Female End



^{*} Stem and disc (or disc holder) are integral.

Dezincification



NIBCO® Press System Bronze Angle Valves

Screw-In Bonnet • Integral Seat • Renewable Seat and Disc

200 PSI/13.8 bar non-shock cold working pressure 250°F maximum operating temperature

CONFORMS TO MSS SP-80

MATERIAL LIST	M	AT	ERI	AL	LI	SI
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	IVIA	I LIIIAL LIVI
	PART	SPECIFICATION
1.	Handwheel Nut	300 Series Stainless Steel
2.	Identification Plate	Aluminum
3.	Handwheel	Malleable Iron ASTM A 47
4.	Stem	Silicon Bronze ASTM B 371 Alloy C69430
5.	Pack Gland	Brass ASTM B 16 Alloy C36000
6.	Pack Nut	Brass ASTM B 16 Alloy C36000
7.	Packing	Aramid Fibers with Graphite
8.	Bonnet	Bronze ASTM B 62 Alloy C83600
9.	Disc Holder Nut	Bronze ASTM B 62 Alloy C83600
10.	Disc Holder	Bronze ASTM B 62 Alloy C83600
11.	Disc	PTFE
12.	Disc Washer	304 Stainless Steel
13.	Disc Nut	Silicon Bronze ASTM B 96 Alloy C65100
14.	/	Bronze ASTM B 62 Alloy C83600
15.	Female Adapter (2)	Bronze ASTM B 61 Alloy C92200
16.	0-Ring (2)	EPDM

DIMENSIONS—WEIGHTS

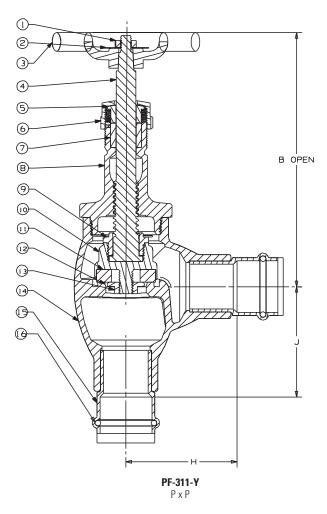
Size			в н			,	J	Weight	
In.	mm.	ln.	mm.	ln.	mm.	ln.	mm.	Lbs.	Kg.
*1/2†	15	3.50	89	1.49	38	1.49	38	1.07	.48
3/4	20	4.94	126	2.00	51	2.00	51	1.94	.88
1	25	5.75	146	2.48	63	2.48	63	3.12	1.42
1 1/4	32	6.13	156	2.59	66	2.59	66	4.21	1.92
1 ½	40	7.25	179	2.98	76	2.98	76	5.44	2.47
2	50	8.13	206	3.64	93	3.64	93	9.98	4.54

[†] No packing gland, packing only in this size.

NIBCO Press System angle valves are designed to meet MSS SP-80 with the exception of the end connection. Male and female press-to-connect ends are new technology not yet covered in the current edition of this specification.

WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.





^{*} Stem and disc or disc holder are integral.



AHEAD OF THE FLOW®

Lead-Free* Bronze Check Valves

Silicon Performance Bronze® Alloy • Horizontal Swing • Regrinding Type • Y-Pattern • Renewable Seat and Disc • Conforms to MSS SP-139 • Press Ends

Pressure rating: 200 PSI non-shock cold working pressure Maximum pressure / temperature: 100 PSI at 250° F

Lead-free* marking: Double oval in body casting

NSF/ANSI-61-8 COMMERCIAL HOT 180°F (INCLUDES ANNEX F AND G) ◆ NSF/ANSI-372

MATERIAL LIST

	1417.11	
	PART	SPECIFICATION
1.	Bonnet	Silicon Bronze ASTM B584 Alloy C87850
2.	Body	Silicon Bronze ASTM B584 Alloy C87850
3.	Hinge Pin	ASTM A276 Alloy S31600
		or ASTM A276 Alloy S30400
4.	Disc Hanger	Silicon Bronze ASTM B584 Alloy C87850
5.	Stainless Steel Nut (2)	ASTM F594 Alloy S31600
		or ASTM F594 Alloy S30400
6.	Disc Holder	Silicon Bronze ASTM B371 Alloy C69300
7.	Seat Disc	PTFE
8.	Hinge Pin Plug	ASTM B371 Alloy C69300
*9.	Disc Washer	304 Stainless Steel
10.	0-Ring	EPDM
11.	Press End Adapter	ASTM B75 Alloy C12200
12.	Crimp Evident Seal O-Ring	304SS or 316SS

^{*}Sizes $3\!\!/4$ ", 1", 1 $1\!\!/4$ ", 1 $1\!\!/2$ " and 2" only

DIMENSIONS—WEIGHTS

	Dimensions										
SI	ZE	A (Lay Length)		В (не	eight)	Master	We	ight			
ln.	mm.	ln.	mm.	ln.	mm.	Ctn Qty	Lbs.	Kg.			
1/2	15	2.78	71	1.66	42	40	0.72	0.33			
3/4	20	3.25	83	1.90	48	40	1.13	0.51			
1	25	3.97	101	2.27	58	25	1.80	0.82			
11/4	32	4.64	118	2.67	68	20	2.42	1.10			
11/2	40	5.00	127	3.09	79	16	3.75	1.70			
2	50	5.85	149	3.84	98	4	5.51	2.50			

NIBCO® check valves may be installed in both horizontal and vertical lines with upward flow or in any intermediate position. They will operate satisfactorily in a declining plane (no more than 15°). Install check valves as far from pump discharge or line direction change as possible and at a minimum length of 5 times the pipe diameter.

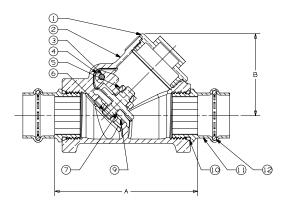
Do not use for reciprocating air compressor service.

WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.





PC-413-Y-LF Press Ends



PC-413-Y-LF Press x Press



NIBCO® Press System Bronze Check Valves

Horizontal Swing • Regrinding Type • Y-Pattern • Renewable Seat and Disc

200 PSI/13.8 bar non-shock cold working pressure 250°F maximum operating temperature

CONFORMS TO MSS SP-80



	IVI	ATERIAL LIST
	PART	SPECIFICATION
1.	Bonnet	Bronze ASTM B 62 Alloy C83600
2.	Body	Bronze ASTM B 62 Alloy C83600
3.	Hinge Pin	Bronze ASTM B 140 Alloy C31400
4.	Disc Hanger	Bronze ASTM B 62 Alloy C83600 or 304 SS 1/2" and 3/4" sizes only
5.	Hanger Nut	Brass ASTM B 16 Alloy C36000
6.	Disc Holder	Bronze ASTM B 62 Alloy C83600
7.	Seat Disc	PTFE
8.	Seat Disc Nut	Brass ASTM B 16 Alloy C36000
9.	5 - 5	Bronze ASTM B 140 Alloy C32000 (not shown)
*10.	Seat Disc Washer	ASTM B 98 Alloy C65500 or ASTM B 103
11.	Female Adapter (2)	Bronze ASTM B 61 Alloy C92200
12.	O-Ring (2)	EPDM

^{*} Sizes 3/4" thru 2" only





PF-413-Y Press x Press Female End

DIMENSIONS—WEIGHTS Dimensions

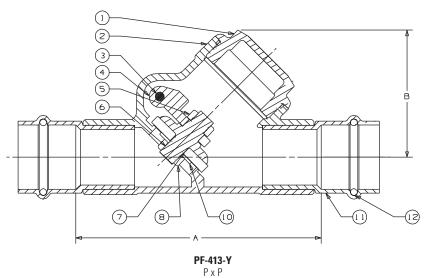
		Dimensions				_	
Size			Α		3	Weight	
In.	mm.	ln.	mm.	ln.	mm.	Lbs.	Kg.
1/2	15	2.72	69	1.54	39	.58	.26
3/4	20	3.62	92	1.83	46	.96	.44
1	25	4.32	110	2.21	56	1.51	.69
1 1/4	32	4.92	125	2.69	68	2.29	1.04
1 1/2	40	5.58	142	2.94	75	3.30	1.50
2	50	6 72	171	3 61	92	5 45	2 48

NIBCO Press System check valves are designed to meet MSS SP-80 with the exception of the end connection. Male and female press-to-connect ends are new technology not yet covered in the current edition of this specification.

WARNING — Do not use for reciprocating air compressor service

NIBCO check valves may be installed in both horizontal and vertical lines with upward flow or in any intermediate position. They will operate satisfactorily in a declining plane (no more than 15°).

WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.





NIBCO® Press System Bronze In-line Lift Check Valves

In-Line Lift Type • Resilient Discs • Spring Actuated

200 PSI/17.2 bar non-shock cold working pressure 250°F maximum operating temperature



MATERIAL LIST

•••	, (; =:::), (= =:0 :
PART	SPECIFICATION
Body	Bronze ASTM B584 Alloy C84400
Ctom	Stainless Steel ASTM A582
Stelli	Alloy C30300
Spring	316 Stainless Steel
Disc Holder	Stainless Steel Type 301
Disc	PTFE
Coat Corow	Stainless Steel ASTM A276
Seat Sciew	Alloy S43000
Body End	Bronze ASTM B584 Alloy C84400
Adapter (2)	Bronze ASTM B61 Alloy C92200
O-Ring (2)	EPDM
	Body Stem Spring Disc Holder Disc Seat Screw Body End Adapter (2)



PF-480-Y Press x Press

Female End

DIMENSIONS—WEIGHTS

				Dime	nsions	3				
Si	ze	Α		В		(C		Weight	
ln.	mm.	In.	mm.	ln.	mm.	ln.	mm	Lbs.	Kg.	
1/2	15	2.41	61	1.38	35	.50	13	0.52	0.24	
3/4	20	3.05	77	1.63	41	.75	19	0.75	0.34	
_1	25	3.56	90	2.00	51	1.00	25	1.18	0.54	
1 1/4	32	3.86	98	2.38	60	1.25	32	1.72	0.78	
1 ½	40	4.45	113	2.75	70	1.50	38	2.49	1.13	
2	50	5.28	134	3.38	86	2.00	51	3.96	1.80	

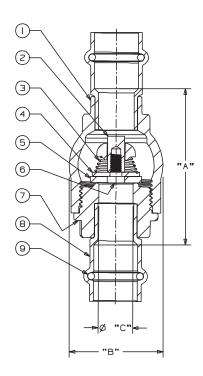
NIBCO Press System check valves may be installed in both horizontal and vertical lines with upward flow or in any intermediate position.

WARNING - Do Not Use for reciprocating air compressor service.

NOTE: 0.5 PSI pressure required to open spring.

NOTE: Check valves are down-rated from 250 PSI CWP to 200 PSI CWP to match the Press System.

WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.



PF-480-Y (PTFE Disc)



NIBCO® Press System Butterfly Valves

Ductile Iron Body • Extended Neck • Geometric Drive Molded-In Seat Liner • Lug Style with Press x Press Female Ends

200 PSI/13.8 bar non-shock cold working pressure 250°F maximum operating temperature

CONFORMS TO MSS-SP67 • MSS-SP25 • API-609 • NSF/ANSI-8 COMMERCIAL HOT 180°F (INCLUDES ANNEX F AND G) AND NSF/ANSI-372

MATERIAL LIST

	PART	SPECIFICATION
1.	Stem	Stainless Steel ASTM A 582 Type 416
2.	Collar Bushing	Brass ASTM B 124
3.	Stem Seal	EPDM Rubber
4.	Body Seal	EPDM Rubber
5.	Nameplate	Aluminum
6.	Upper Bushing	Wrot Copper ASTM B 75 Alloy C12200
7.	Liner	EPDM Rubber
8.	Disc	Alum. Brz. ASTM B 148 Alloy 954/955
9.	Lower Bushing	Wrot Copper ASTM B 75 Alloy C12200
10.	Body Lug	Ductile Iron ASTM A 536
11.	Flange Body (2)	Carbon Steel
12.	Flange Gasket (2)	EPDM
13.	Flange Press Ends (2)	Wrot Copper ASTM B 75 Alloy C12200
14.	O-Ring (2)	EPDM
15.	Cap Screws	Carbon Steel

Available with lock lever handle or gear operator.

DIMENSIONS — WEIGHTS

Size							G	Metal	Rubber
In. mm.	Α	В	C	D	E	F	Flat	Н	<u> </u>
2½ 65	2.90	4.69	1.25	5.88	3.27	.38	.370	1.812	1.938
3 80	3.15	5.12	1.25	6.12	3.40	.38	.370	1.812	1.938
4 100	4.09	6.12	1.25	6.88	4.00	.38	.403	2.062	2.188

Si In.	ze	J Square	N Dia.	0 B.C.	P Dia.	R Dia.	S No.	Lug Length	Tota Weig Lbs.	
2½	65	3.25	.562	3.25	.437	.500	3.13	Refer to	24.00	10.88
3	80	3.25	.562	3.25	.437	.500	3.44	page 55 for bolt	26.00	11.78
4	100	3.25	.625	3.25	.437	.562	4.00	lengths	38.00	17.23

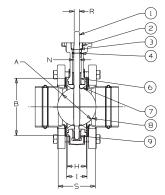
NIBCO Press System butterfly valves are designed to meet MSS SP-67 with the exception of the end connection. Male and female press-to-connect ends are new technology not yet covered in the current edition of this specification.

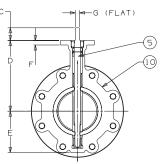
WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

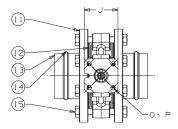


PFD-2000 Lug Style EPDM Liner and Aluminum Bronze Disc Press x Press Female End









NOT RECOMMENDED FOR STEAM SERVICE



NIBCO® Press System Bronze Ball Valves

Two-Piece Body • Full Port • Bronze Trim • Blowout-Proof Stem



600 PSI/41.4 bar non-shock cold working pressure 250°F maximum operating temperature

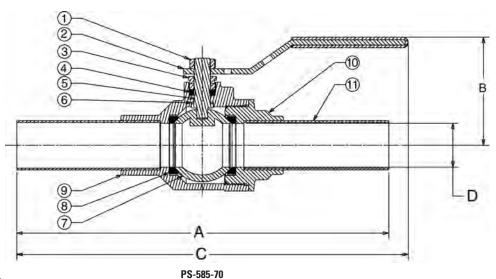
CONFORMS TO MSS SP-110

MATERIAL LIST

	IV	AILNIAL LIST
	PART	SPECIFICATION
1.	Handle Nut	Zinc Plated Steel
2.	Handle Assembly	Zinc Plated Steel with Plastisol Cover
3.	Pack Gland	Brass ASTM B 16 Alloy C36000
4.	Packing	PTFE
5.	Stem	Silicon Bronze ASTM B 371 Alloy C69430
6.	Thrust Washer	RPTFE
7.	Ball	Brass ASTM B 16 Alloy C36000 or ASTM B 124 Alloy C37700 (Chrome/Nickle Plated)
8.	Seat Ring (2)	RPTFE
9.	Body	Bronze ASTM B 584 Alloy C84400
10.	Body End Piece	Bronze ASTM B 584 Alloy C84400
11.	Stub Out (2)	Type "L" Copper Tube



Press x Press Male End



PxP

DIMENSIONS—WEIGHTS

	Dimensions										
Si	ze	1	A	- 1	В	C		I	D	We	eight
In.	mm.	. In.	mm.	In.	mm.	In.	mm.	In.	mm.	Lbs.	Kg.
1/2	15	6.56	167	1.88	48	7.25	184	.50	13	.73	.99
3/4	20	7.25	184	2.25	57	8.25	210	.75	19	1.50	.68
1	25	7.75	197	2.38	60	8.63	219	1.00	25	2.05	.93
1 1/4	32	9.06	230	3.00	76	9.19	233	1.25	32	3.64	1.65
1 ½	40	9.99	254	3.16	80	11.69	297	1.50	38	5.73	2.60
2	50	10.72	272	3.50	89	12.06	306	2.00	51	8.11	3.68

NIBCO Press System ball valves are designed to meet MSS SP-110 with the exception of the end connection. Ball valves are down-rated from 600 PSI CWP to 200 PSI CWP to match the NIBCO Press System. Male and female press-to-connect ends are new technology not yet covered in the current edition of this specification.

WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.



NIBCO® Press System Bronze Ball Valves

Two-Piece Body • Full Port • Stainless Trim • Blowout-Proof Stem • Vented Ball



WATER QUALITY

600 PSI/41.4 bar non-shock cold working pressure 250°F maximum operating temperature Nominal sizes 1/2" through 1" are UL certified to NSF/ANSI 61

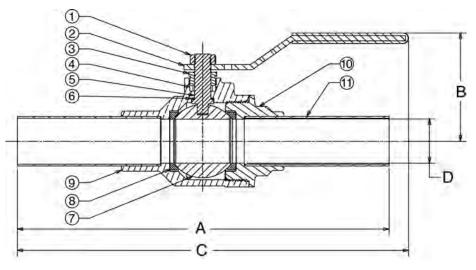
CONFORMS TO MSS SP-110

MATERIAL LIST

	WAILINALLIOI							
	PART	SPECIFICATION						
1.	Handle Nut	Zinc Plated Steel						
2.	Handle Assembly	Zinc Plated Steel with Plastisol Cover						
3.	Pack Gland	Brass ASTM B 16 Alloy C36000						
4.	Packing	PTFE						
5.	Stem	ASTM A 276 Alloy S31600 Stainless Steel						
6.	Thrust Washer	RPTFE						
7.	Ball	ASTM A 276 Alloy S31600 Stainless Steel						
8.	Seat Ring (2)	RPTFE						
9.	Body	Bronze ASTM B 584 Alloy C84400						
10.	Body End Piece	Bronze ASTM B 584 Alloy C84400						
11.	Stub Out (2)	Type "L" Copper Tube						



PS-585-70-66
Press x Press
Male End



PS-585-70-66

DIMENSIONS—WEIGHTS

			Dimensions								
Size			A	В		C	С		D	Weight	
In.	mm	. In.	mm.	ln.	mm.	ln.	mm.	ln.	mm.	Lbs.	Kg.
1/2	15	6.56	167	1.88	48	7.25	184	.50	13	.73	.33
3/4	20	7.25	184	2.25	57	8.25	210	.75	19	1.50	.68
_1	25	7.75	197	2.38	60	8.63	219	1.00	25	2.05	.93
1 1/4	32	9.06	230	3.00	76	9.19	233	1.25	32	3.86	1.75
1 ½	40	9.99	254	3.16	80	11.69	297	1.50	38	5.79	2.63
2	50	10.72	272	3.50	89	12.06	306	2.00	51	8.84	4.00

NIBCO Press System ball valves are designed to meet MSS SP-110 with the exception of the end connection. Ball valves are down-rated from 600 PSI CWP to 200 PSI CWP to match the NIBCO Press System. Male and female press-to-connect ends are new technology not yet covered in the current edition of this specification.

WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.



NIBCO® Press System Bronze Ball Valves

Two-Piece Body • Full Port • Bronze Trim • ¾" Hose Connection with Cap and Chain • Blowout-Proof Stem

600 PSI/41.4 bar non-shock cold working pressure 250°F maximum operating temperature

CONFORMS TO MSS SP-110

MATERIAL LIST

•••	/// EIII// LE EIO I
PART	SPECIFICATION
Handle Nut	Zinc Plated Steel
Handle	Zinc Plated Steel
Pack Gland	Brass ASTM B 16 Alloy C36000
Packing	PTFE
Thrust Washer	RPTFE
Stem	Silicon Bronze ASTM B 371 Alloy C69430
Ball	Brass ASTM B 16 Alloy C36000 or ASTM B 124 Alloy C37700 (Chrome/Nickle Plated)
Seat Rings	Reinforced PTFE
Body Assembly	Bronze ASTM B 584 Alloy C84400
Hose Body End	Brass ASTM B 124 Alloy C37700
Cap	Die Cast Brass
Gasket	Rubber
Chain	Brass
Stub Out	Type "L" Copper Tube
	Handle Nut Handle Pack Gland Packing Thrust Washer Stem Ball Seat Rings Body Assembly Hose Body End Cap Gasket Chain



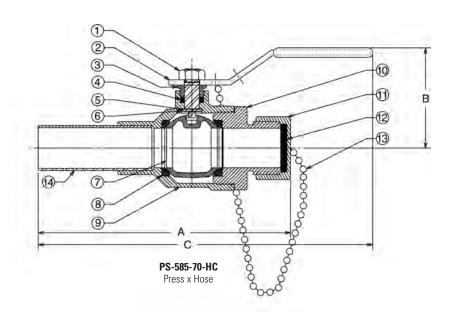
PS-585-70-HC Press Male x Hose End

Cap is for hose end thread protection only. Not to be used for pressure containing purposes.

DIMENSIONS—WEIGHTS

Si	ze		A	В		C		Weight	
In.	mm.	ln.	mm.	ln.	mm.	ln.	mm.	Lbs.	Kg.
1/2	15	4.90	124	1.88	48	7.19	183	.81	.37
3/4	20	5.47	139	2.25	57	8.25	210	1.54	.70

NIBCO Press System ball valves are designed to meet MSS SP-110 with the exception of the end connection. Ball valves are down-rated from 600 PSI CWP to 200 PSI CWP to match the NIBCO Press System. Male and female press-to-connect ends are new technology not yet covered in the current edition of this specification.



WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.



Class 125 Bronze Y-Strainers

Screw-In Cap • Tapped Cap with Blow-Off Plug or Solid Cap • 20 Mesh SS Screen or SS Perforated Screen

200 PSI/13.8 bar non-shock cold working pressure 250° F maximum operating temperature

CONFORMS TO MSS SP-110

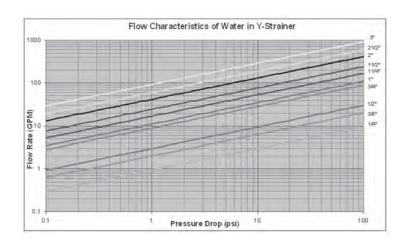
MATERIAL LIST

	WAI LINAL LIOT							
PART	SPECIFICATION							
1. Body	Bronze ASTM B584 Alloy C84400							
2. Cap	Bronze ASTM B62 Alloy C83600							
3. Gasket	PTFE							
4. Screen	ASTM E2016 20 Mesh - 304 Stainless Steel or ASTM E674 Perforated - 304 Stainless Steel							
5. Plug	Brass ASTM B16 Alloy C36000 or Bronze ASTM B584 Alloy C84400							
6. Female Adapter (2)	Bronze ASTM B61 Alloy C92200							
7. O-Ring (2)	EPDM							

END CONNECTION	SCREEN	CAP
PF- Female Press	221 - 20 Mesh (STD.)	A - Tapped Cap w/Plug (STD.)
PF - Female Press	222 - Perforated	B - Solid Cap

DIMENSIONS—WEIGHTS—QUANTITIES

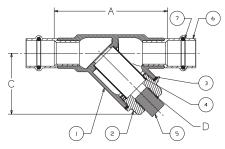
	Dimensions								
S	Size		Α	(;	D	Weight		
In.	mm.	In.	mm.	In.	mm.	Threads	Lbs.	Kg.	
1/2	15	2.96	75	1.79	45	1/4 NPT	0.66	0.30	
3/4	20	3.94	100	2.14	54	3/8 NPT	1.21	0.55	
_1	25	4.66	118	2.79	71	3/8 NPT	1.88	0.86	
11/4	32	5.47	139	3.23	82	3/4 NPT	3.10	1.41	
11/2	40	6.05	154	3.61	92	3/4 NPT	4.64	2.10	
2	50	7.40	188	4.99	127	1 NPT	7.48	3.39	





PF-221/222-A

Press x Press Female End

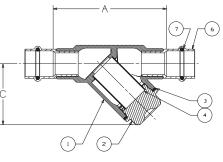


PF-221/222-A



PF-221/222-B

Press x Press Female End



PF-221/222-B

WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

NIBCO® Press System Ball Valve Handle Options

A wide variety of handles are available to fulfill safety and operation requirements in various processing and manufacturing industries. The lever handle with plastic cover is standard. Other handle options are shown. Stainless steel lever handles are available, as an option, also with plastic covers. If an optional handle is desired, please indicate which one when ordering. Many of these options are field assembly only.



NIBCO® Press System Bronze Ball Valves NIB-SEAL® Technical Data

NIBCO bronze ball valves installed with NIB-SEAL insulated handles are the only approach that keeps your insulated piping system completely intact.

The revolutionary NIB-SEAL bronze ball valve stops condensate cold. Its unique thermal barrier design keeps moisture from infiltrating your insulated system while preventing thermal energy loss through exposed metal handles.

Designed for new installations or retrofitting existing systems, NIB-SEAL bronze ball valves offer a wide range of advantages for typical commercial HVAC systems as well as industrial applications where insulated piping is desirable.

- Protective sleeve provides a stationary surface to affix the insulation, allowing operation and maintenance of the valve without
 destroying the integrity of the insulated system.
- High-strength cylindrical handle design features easy access to standard adjustable memory stop for system balancing. The valve packing is also readily accessible for routine maintenance.
- Cap and insulating plug provide a vapor seal to prevent exchange of air to maximize the efficiency of your insulated piping system.
- · Position indicators allow at-a-glance determination of whether valve is in open or closed position.
- · Pre-formed hole allows for convenient tagging.



Cap keeps moisture-laden air out to reduce chance of condensate formation

Insulation plug provides vapor seal, keeping air from infiltrating the insulated system

Handle nut

Indicator gives at-a-glance valve position

Memory stop plate and screws for system balancing

Pre-formed hole for identification tag

Extension handle of durable non-thermal conductive material prevents formation of condensation

Protective sleeve allows operation of valve handle and maintenance of valve packing while maintaining integrity of piping insulation

NIBCO Press System bronze ball valve is an integral part of the NIB-SEAL valve system

US PATENT 5,236,006

NIB-SEAL® Locking Handle

U.S. PATENT 9,810,344

The patented technology of the 3-in-1 NIB-SEAL locking handle solves three problems at once: it extends, it insulates, and it locks. The innovative locking handle design extends valve actuation to provide ample room for insulating around piping systems, and its unique thermal barrier system prevents heat transfer and condensate development. The NIB-SEAL locking handle also allows the valve to be locked in the full open or closed position to prevent incidental actuation.

Designed for new installations, the NIB-SEAL locking handle is engineered to work with NIBCO^(B) bronze ball valves.**

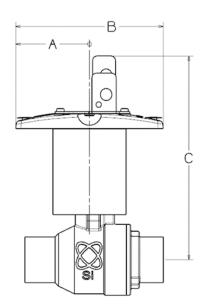
Applications: For piping systems requiring up to 2" of insulation, specify a non-conductive CPVC extended-locking handle bronze ball valve tested to UL 2043, and UL listed for installation in air handling spaces. The assembly offers a vapor seal, position indicators, locking device, and actuation without disturbing the insulation. Designed for new installations, the NIB-SEAL locking handle installed on bronze ball valves offers a wide range of advantages for typical commercial HVAC systems as well as industrial applications where insulated piping with a locking device is desirable. Specify NIB-SEAL insulated locking handle.

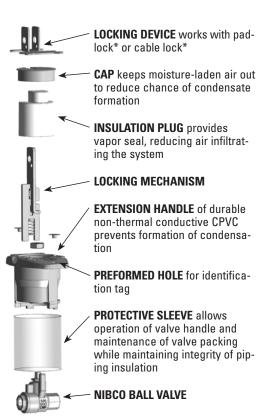
Approvals: UL 2043

Safety Lock Compatibility: Cable lock as small as 1/8" diameter to padlock as big as 0.33" diameter shackle.

Temperature Range: 15° F to 250° F

Not intended for steam applications in excess of 15 PSI.





Padlock and cable lock not included

Visit our website for the most current information.

Dimensions

			Series 58	5				
Sizes		A	E	3	C			
	In.	mm.	In.	mm.	ln.	mm.		
1/4"	2.19	55.58	4.25	107.95	5.30	134.59		
3/8"	2.19	55.58	4.25	107.95	5.30	134.58		
1/2"	2.19	55.58	4.25	107.95	5.42	137.56		
3/4"	2.19	55.58	4.25	107.95	5.69	144.50		
1"	2.19	55.58	4.25	107.95	5.88	149.40		
11/4"	3.38	85.73	6.50	165.10	6.84	173.67		
1½"	3.38	85.73	6.50	165.10	7.06	179.33		
2"	3.38	85.73	6.50	165.10	7.30	185.44		

Factory installed only.

Order appropriate factory installed NIBCO valve figure number with suffix "LX". Example: T-585-70-LX, 1/2"

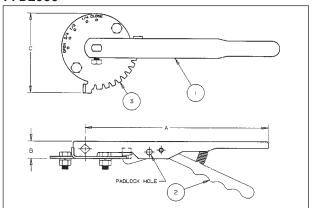
NIB-SEAL on solder/sweat ball valves are shipped unassembled.

^{**} Valve type showing above is just for handle representation

Butterfly Valve Options and Accessories

Lever-Lock Operator (Standard)

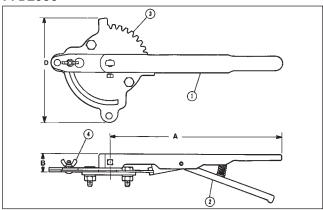
PFD2000



The lever-lock handle and throttling plate provide throttling notches every 100 for excellent manual control in balancing up to 900 or shut off service. The valve may be padlocked in any one of the positions including opened or closed by virtue of a locking hole located in the handle and lever.

Position-Lock Operator (Optional)

PFD2000



The position-lock can be used to set the valve in any position or as a memory stop so the valve may be reopened to the previous position. The valve may be padlocked in full open or full closed position.

Ordering: Sold as a field retrofitable kit only.

ΜΔΤΕΡΙΔΙ ΙΙςΤ

	WAILINALLIOI						
	PART SPECIFICATION						
1. Handle	Polymer Coated Iron						
2. Lever-Lock	Zinc Plated Steel						
3. Throttle Plate	Zinc Plated Steel						

DIMENSIONS AND TORQUE OUTPUT

PFD					Din	ensions		Torque Rated Output in Inch-Pounds			
Lever	Lever	Throttle Plate/									
Size	(STD)	(STD)	Infinite Pos. Kit	Α	В	C	D	At 60 pounds Pull	At 100 pounds Pull		
21/2"-3"	T115107PP	T115138PP	T114841FG	10½	1	4 5⁄/ ₈	6 ³ / ₁₆	540 In-Lbs.	900 In-Lbs.		
4	T115108PP	T115138PP	T114842FG	10½	1	4 5⁄8	6 ³ / ₁₆	540 In-Lbs.	900 In-Lbs.		

Gear Operator options and accessories (2 1/2" through 4" 2000 series only)

2" Square Operating Nut

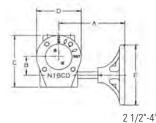






Flag Indicator







Consult factory for: square operating nut, memory stop and flag indicator

Cast Iron Gear Operator

The NIBCO® butterfly valve can be provided with heavy-duty operator and indicator. Recommended for valves 8" and larger, for trouble-free operation in all moisture and weather conditions (not submersible). Operator is a self-locking worm gear type. Equipped with adjustable stops at open and shut positions. Ordering: Specify by adding (-5) to Fig. No., i.e., PFD2000-5. Babbit sprocket may be added to handwheel. See below for sizing information. Available options: memory stop gear operator kit, 2" square operating nut, flag indicator and handwheel for GO.

	GEAR OPERATOR DETAIL FOR SIZES 2 1/2" TO 4" (PFD2000 ONLY)						GEAR OPERATOR ACCESSORIES & REPLACEMENT PARTS								
PFD VALVE	GEAR OPERATOR	RATIO	GEAR OP		DIMENSIONS (INCHES)		STEM Adapter	SPROCKET RIM	SQUARE OPERATING	FLAG	MEMORY	REPLACEMENT			
VALVE	NUMBER		WEIGHT	Α	В	C	D	E	F	BUSHING	MODEL	NUT	INDICATOR	STOP KIT	HANDWHEEL
2½ - 3	T117118PP	24:1	10	7.64	1.77	5.04	4.24	5.91	2.79	T046653PP	#11/2	T117792FC	T116682PP	T026196PP	T117122PP
4	T117118PP	24:1	10	7.64	1.77	5.04	4.24	5.91	2.79	T046654PP	#11/2	T117792FC	T116682PP	T026196PP	T117122PP

NOTE: 1. Stem adapter bushing must be ordered seperately when needed for smaller size valves.

2. All other accessories must be ordered separately. (Sprocket rim, square operator nut, flag indicator & memory stop kit.)

3. Gear operator comes with handwheel.

Butterfly Valve Technical Information

Valve Installation Procedure

Always position the connecting pipe flanges accurately in the line, allowing sufficient space between the flanges for the valve. Make sure the pipe flange faces are clean of any foreign material such as scale, metal shavings or welding slag. Valves should be installed with the disc in the closed position to prevent damage to sealing surfaces.

- 1. Carefully insert the valves between the pipe flanges. Do not apply any lubricants to the seat faces as this may damage them.
- Line up, center and secure the valve between flanges using desired bolts or studs as listed in Table 4. Do not tighten bolts at this time.
- 3. Carefully open the valve to assure free unobstructed disc movement. Disc interference may result when valves are installed in pipelines having smaller than normal inside diameters, such as heavy wall pipe, plastic-lined pipe, as-cast flanges or reducing flanges. Interference can also occur when connecting directly to a swing check or silent check. Suitable corrective measures must be taken to remove these obstructions, such as taper boring the pipe or installing a spacer or spool piece.
- 4. After proper operation is verified, tighten the bolts using a cross-over pattern (Fig. 1) to the minimum recommended bolt torques listed in Table 3.
- Pressurize piping to valve and inspect for leakage. If leakage is observed, tighten bolts using cross-over pattern, increasing torque until leak stops.
 DO NOT EXCEED MAXIMUM TORQUES LISTED IN TABLE 3.
- Recommended torques are made without warranty. Installer must verify proper strength bolts for application. Bolts shall be clean and un-lubricated.

Table 3 Recommended Bolt Tightening Torques

		Minimum Bolt Torque (ft.•lbs.)				
2 1/2"- 4"	5/8"	20	70			

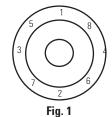
Caution

- 1. Class 250 cast iron and Class 300 steel flanges can not be used on these valves.
- 2. Rubber faced or mechanical flanges are **not** recommended.
- 3. This valve is **not recommended** for steam service.
- 4. Valves should **not** be assembled to the flanges and then welded into the piping system.
- 5. Do not install EPDM liner in compressed air lines.

Table 4 Recommended Bolt Lengths

	VALVE SIZE 1000/2000/3000 SERIES ONLY	TOTAL VALVE BODY WIDTH	ANSI B16.1 CLASS 125 CAST IRON FLANGE THICKNESS	ANSI B16.5 CLASS 150 STEEL FLANGE THICKNESS	ANSI B16.47 (SERIES A) CLASS 150 STEEL MSS SP-44 FLANGE THICKNESS	ANSI B16.47 (SERIES B) CLASS 150 STEL WELD NECK FLANGE THICKNESS	ANSI B16.47 (SERIES B) CLASS 150 STEEL BLIND STYLE FLANGE THICKNESS	RECOMMENDED CAP SCREW LENGTH (LUGGED VALVES) (C)	TOTAL QUANTITY CAP SCREWS/BOLTS (TO MOUNT 2 FLANGES	CAP SCREW SIZE
Γ	0.1/0"	1.81	0.69	_	_	_		1.50	8/4	E /O 11 LINC
L	2 1/2"	1.01	_	0.88	_	_		1.75	8/4	5/8-11 UNC
	0.11	1.01	0.75	_	_	_	_	1.50	8/4	E /O 44 LINIO
	3"	1.81	_	0.94	_	_	_	1.75	8/4	5/8-11 UNC
	4"	2.06	0.94	0.94	_	_	_	1.75	16/8	5/8-11 UNC

Bolt Tightening Cross Over Pattern



Suggested Bolting Method



Resilient Liner Materials

EPDM – EPDM is a terpolymer elastomer made from ethylene-propylene diene monomer. EPDM has good abrasion and tear resistance and offers excellent chemical resistance to a variety of acids and alkalines. It is susceptible to attack by oils and is not recommended for applications involving petroleum oils, strong acids or strong alkalines. EPDM should not be used on compressed air lines. It has exceptionally good weather aging and ozone resistance. It is fairly good in ketones and alcohols.

Liner Temperature Ratings

Liner Material TemperatureEPDM**
-20°F to + 250°F

** EPDM is rated at 250°F intermittent service and 225°F continuous service.

Proprietary compound formulas are used for each of the elastomers to provide the right combination of seat compression, abrasion resistance and chemical resistance to match your application. Elastomeric seat materials are not suitable for steam service.



NIBCO pressystem Tools, Jaws & Chains





NIBCO® Press System Tools

PC-280





MATERIAL LIST

MODEL	NO. DESCRIPTION	LBS.
		LDS.
PC-280	Pressing Tool with 2 - 18V, 3.0 Ah Lithium-ion batteries, 110V battery charger & case	25.40
	batteriot, Free Battery Shanger & Sace	20.10
PC-10S	1/2" Standard Pressing Jaw (for PC-100 or PC-280)	4.14
PC-11S	3/4" Standard Pressing Jaw (for PC-100 or PC-280)	4.18
PC-12S	1" Standard Pressing Jaw (for PC-100 or PC-280)	4.52
PC-13S	1 1/4" Standard Pressing Jaw (for PC-100 or PC-280)	4.30
PC-14S	1 1/2" Standard Pressing Jaw (for PC-100 or PC-280)	9.61
PC-15S	2" Standard Pressing Jaw (for PC-100 or PC-280)	9.26
PC-16S	1/2"-1 1/4" (4 jaws) Standard Press Jaw Kit	
	w/Case (for PC-100 or PC-280)	25.25
PC-17S	1 1/2"-2" (2 jaws) Standard Press Jaw Kit	
	w/Case (for PC-100 or PC-280)	23.76
DO 0	0.4/0 Dunanian Chairm/Cons. (Com. DC. 100 and DC. 200)	10.50
PC-2	2 1/2" Pressing Chain w/Case (for PC-100 or PC-280)	18.58
PC-3 PC-4	3" Pressing Chain w/Case (for PC-100 or PC-280) 4" Pressing Chain w/Case (for PC-100 or PC-280)	19.40
PC-234		23.81
PU-Z34	2 1/2", 3" & 4" Pressing Chain Kit (for PC-100 or PC-280)	44.42
PC-5	PC-5 Pressing Chain Adapter Jaw	
10-5	(note: must be used with 2 1/2", 3" & 4" chains)	7.01
PC-7L	18V, 3.0Ah Lithium-ion Battery (for PC-280 or PC-20M)	1.30
PC-8L	110V Battery Charger (for PC-4ML or PC-7L)	2.20
PC-9L	AC Adapter (for PC-280 or PC-20M)	1.70
PC-280C	Plastic Replacement Case for PC-280 Tool	7.50
PC-2C	Metal Replacement Case for PC-2 or PC-3 Chain	8.10
PC-4C	Metal Replacement Case for PC-4 Chain	8.10
PC-234C	Plastic Replacement Case for PC-234 Chain Kit	7.72
PC-16SC	Metal Replacement Case for PC-16S (1/2" - 1 1/4" Jaws)	8.10
PC-17SC	Metal Replacement Case for PC-17S (1 1/2" - 2" Jaws)	4.40



PC-10S thru PC-15S Standard Pressing Jaws

PC-280 Pressing Tool



PC-2 thru PC-4 **Pressing Chains**



PC-5 Pressing Chain Adapter Jaw



PC-7L 18V, 3.0 Ah Lithium-ion Battery



PC-8L 110V Battery Charger



PC-51 1/2" - 2" Deburring Tool



PC-9L AC Adapter

WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Visit our website for the most current information.

1/2" - 2" Deburring Tool

0.92

PC-51



NIBCO® Press System Tools

PC-20M

1/2" through 1"

MATERIAL LIST

	IVIALLIUAL LIGI					
MODEL	NO. DESCRIPTION	LBS.				
PC-20M	Mini Pressing Tool, 2 - 18V, 2.0 Ah Lithium-ion batteries, 110V charger & case (NO jaws)	10.10				
PC-200M Mini Pressing Tool, 3 Jaws, 2 - 18V, 2.0 Ah Lithium-ion batteries, 110V charger & case						
PC-1M	1/2" Jaw (for Mini Pressing Tool - PC-10M or PC-20M)	2.09				
PC-2M	3/4" Jaw (for Mini Pressing Tool - PC-10M or PC-20M)	2.05				
PC-3M	1" Jaw (for Mini Pressing Tool - PC-10M or PC-20M)	2.07				
PC-4ML	18V, 2.0Ah Lithium-ion Battery (for PC-20M)	0.85				
PC-7L	18V, 3.0Ah Lithium-ion Battery (for PC-280 or PC-20M)	1.30				
PC-8L	110V Battery Charger (for PC-4ML and PC-7L)	2.20				
PC-9L	AC Adapter (for PC-280 or PC-20M)	1.70				
PC-20MC	Plastic Replacement Case for PC-10M & PC-20M)	4.00				
PC-50	1/2" - 1" Deburring Tool	0.42				



PC-20MMini Pressing Tool



PC-200MMini Pressing Tool with 1/2", 3/4" and 1" Jaws



PC-1M, 2M, 3M Mini Pressing Jaws



PC-4ML 18V, 2.0 Ah Lithium-ion Battery



PC-8L 110V Battery Charger



PC-50 1/2" - 1" Deburring Tool



PC-7L 18V, 3.0 Ah Lithium-ion Battery



PC-9L AC Adapter

WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.



NIBCO® Press System Tools

PC-280 & PC-20M FEATURES

TOOLS

Light weight

PC-20M Mini: 3.7 lbs. (without jaw) PC-280: 9.4 lbs. (without jaw)

Easy to handle / simple design

Jaws rotate 350°
No calibration necessary
No complicated switches or controls
Mini: Ergonomic compact design is easy to use
in tight spaces

Interruptible crimp cycle

Safety feature prevents injuries Can begin crimp, stop to align and level fitting / tube, and complete crimp

Battery

Can be changed during crimp cycle Lithium-ion has short charging cycle and larger capacity

- PC-4ML: 15 minute recharge time
- PC-7L: 22 minute recharge time

AC Power Adapter

Converts the tool to electric power Allows continuous use

Service light

Illuminates at 10,000 cycles

Tool will not stop operating when light illuminates

- RED indicates battery charge status, service intervals, tool functions & faults
- WHITE illuminates the work area

Hydraulic Pressure Check (HPC)

An audible warning signal sounds if adequate working pressure is not achieved

PRESSING CHAINS (2 1/2" to 4" ONLY)

Uniform crimp

Maintains proper pipe alignment

Easy to install and remove

Once secured to fitting, chain cannot fall off prior to crimp Chain easily removed post crimp

onam dadny romovda podre

Crimp Identification

Easy to identify crimp has been made from a distance

PC-100 and PC-10M Accessories

MATERIAL LIST

MODEL	NO. DESCRIPTION	LBS.			
PC-7	PC-7 12V, NiMH Battery - 3.0Ah for PC-100				
PC-8	8 120V Standard Battery Charger for PC-6 or PC-7				
PC-4M	1.3 Ah NiCd 9.6V Battery for Mini Pressing Tool	0.85			
PC-5M	120V Charger for Mini Pressing Tool	1.13			
PC-100C	Metal Case for PC-100 Tool	14.30			



PC-4M 9.6V, 1.3 Ah NiCd Battery



PC-7 12V, 3.0 Ah NiMH Battery



PC-8120V Battery Charger

NIBCO® Press System Approved Tool and Jaw Compatibility Matrix

Pressing tool, jaw and chain sets are an integral part of ensuring a reliable, permanent connection between NIBCO Press System fittings, valves and copper piping. *Only use pressing tools, jaws and chain sets that have been tested and approved for use with NIBCO Press System fittings and valves.*

The following table details compatibility of approved pressing tools, chains and jaws with the NIBCO Press System fittings and valves:		1/2" - 1" NIBCO® Press System Mini Pressing Jaws (PC-1M, PC-2M, PC-3M)	1/2" - 1" RIDGID® ProPress® Compact Pressing Jaws	1/2" - 1-1/4" RIDGID® ProPress® C1 Compact Kit (C1 Actuator & Press Rings)	Rothenberger Compact Pressing Jaws	Stanley® VIRAX® Press Inserts	1/2" - 1 1/4" Milwaukee® M12 TM Pressing Jaws	1/2" - 2" NIBCO® Press System Standard Pressing Jaws (PC-10S, PC- 11S, PC-12S, PC-13S, PC-14S, PC-15S)	1/2" - 2" RIDGID® ProPress® Standard Pressing Jaws	1/2" - 1-1/4" RIDGID® ProPress® V1 Kit (V1 Actuator & Press Rings)	1/2" - 2" Rothenberger Standard Pressing Jaws	1/2" 2" REMS Standard Pressing Jaws	Stanley® VIRAX® Pressing Jaws	1/2" - 2" Milwaukee® M18™ Pressing Jaws	1/2" - 2" DEWALT DCE200 Pressing Jaws	2 1/2" - 4" NIBCO® Pressing Chains (PC-2, PC-3, PC-4)
	SIZE			1/2" - 1	l"						/2" - 2		Г			2 ½" - 4"
	NIBCO® PC-280	_	_	_	_	_	_	YES	YES	YES	YES	YES	YES		_	YES
	NIBCO® PC-100			_	_		_	YES	YES	YES	YES	YES	YES		_	YES
	RIDGID® 320-E		_		_	_		YES	YES	YES	_	_	_		_	
	RIDGID® RP 330-B				_	_		YES	YES	YES	_	_	_		_	
	RIDGID® CT400			_	_		_	YES	YES	YES			_		_	
	RIDGID® RP 330-C		_		_			YES	YES	YES	_				_	
	RIDGID® RP 340		_	_	_	_	_		YES	_	_		_		_	
PRESSING TOOLS	Rothenberger ROMAX® Pressliner		_			_	_		_	_	YES		_		_	
15	Rothenberger ROMAX® AC ECO	_	_	_	_	_					YES	_	_			
	REMS Akku-Press	_	_	_	_	_			_		_	YES	_	_		
ESS	REMS Power-Press				_	_		_				YES				
Æ	Stanley® VIRAX® P20+			_	_	_	_	_					YES		_	
	DEWALT DCE200					_		YES		_					YES	
	NIBCO® PC-20M Mini	YES	_	_	YES	_	_	_	_	_	_		_		_	
	NIBCO® PC-10M Mini	YES	_	_	YES	_	_	_	_	_	_		_	_	_	_
	RIDGID® 100-B Compact		YES	YES	_	—	_	_	_				_			
	RIDGID® RP 210-B Compact		YES	YES	_	_							_			
	RIGID® RP 200-B		YES	YES	_	_		_					_			
	Rothenberger Compact	YES			YES		_								_	
	Stanley® VIRAX® M20+ Compact	_			_	YES							_			
	Milwaukee® M12™ Force Logic™	_		_	_		YES		_	_		_	_		_	_
	Milwaukee® M18™ Force Logic™	_			_	_	_	_	_	_		_	_	YES	_	

For the latest listing of approved pressing tool, jaw and chain combinations, visit nibco.com. NIBCO recommends minor tool service performed once per year and major service every three years. For technical or service assistance, contact NIBCO Technical Services 1-888-446-4226.

RIDGID® is a registered trademark of RIDGID Inc. $\begin{array}{l} \text{ProPress}^{\textcircled{\tiny{\$}}} \text{ is a registered trademark of Viega NA.} \\ \text{ROMAX}^{\textcircled{\tiny{\$}}} \text{ is a registered trademark of ROTHENBERGER USA LLC VIRAX}^{\textcircled{\tiny{\$}}} \text{ is a registered trademark of The Stanley Works.} \\ \text{Force Logic}^{\text{\tiny{\$}}} \text{ is a trademark of Milwaukee}^{\textcircled{\tiny{\$}}} \text{ Tool } \\ \text{DEWALT}^{\textcircled{\tiny{\$}}} \text{ is a registered trademark of The Stanley Work} \\ \end{array}$

CAUTION:

NIBCO press fittings and valves (2½", 3", 4" ends) to be installed **ONLY** with NIBCO pressing tools & chains.

NIBCO pressystem Engineering Data

NIBCO® Press System — Engineering Data Copper and Copper Alloy Fittings

Standards

O-ring seal joints are not new to the piping industry, but joining techniques like the NIBCO Press System are providing new alternatives for copper piping assembly. NIBCO has relied on its century of experience in copper and brass piping products to design the best performing and most dependable line of fittings possible.

Applications

The NIBCO Press System fittings are designed to join with ASTM B 88 seamless copper water tube in residential and commercial potable, hot, chilled and process water applications for plumbing and HVAC systems. Copper and copper alloy materials and EPDM elastomeric seals have a long history of compatibility with common chemicals used in these systems. A chemical resistance chart should always be referenced when other fluids are to be introduced.

NOTE: FLUIDS CONTAINING HYDROCARBON-BASED OILS ARE <u>NOT</u> COMPATIBLE WITH THE EPDM SEAL.

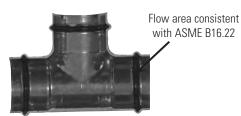
Pressure/Temperature Limitations

-20°F to 250°F up to 200 PSIG, non-shock working pressure except where otherwise noted.

Materials:

- Wrot Copper
 - ◆ ASTM B 75 Alloy C12200
- Cast Copper Alloy
 - ◆ ASTM B584-12a Alloy C87600 and C84400
- Elastomeric Seals
 - EPDM 0-rings compliant with IAPMO PS-117 and ASME B16.51

NIBCO® press fittings meet all performance requirements of ASME B16.51



NOTE: Freezing weather precaution — subsequent to testing a piping system, valve should be in an open position to allow complete drainage.

Performance

The following performance tests were conducted per ASME B16.51. The fitting dimensions, materials of construction and performance tests were witnessed and verified by internationally recognized NSF. A letter of verification is available upon request:

- 1. Dimensional Verification
 - a. Inside diameter of press cup and waterway
 - b. Outside diameter of press cup and waterway
 - c. Wall thickness
 - d. Threaded ends conformance to ASME B1.20.1
- 2. Hydrostatic Minimum Burst Strength Pressure
 - Fitting samples hydrostatically tested to a minimum of 600 PSI (three times the rated internal working pressure) at 73°F.
- 3. Unrestrained Hydrostatic Pressure Test at 68°F (20°C) and 200°F (93°C)
 - Fitting assemblies were filled with water and pressurized to 600 PSIG at 68° and 200°F for 48 hours.
- 4. Static Torque
 - Fittings were filled with water, had a minimum torque applied and released. Each fitting was then pressurized to 400 PSIG for 48 hours.
- 5. Bending Test
 - a. A sample fitting was installed between two equal lengths of harddrawn copper tubing supported six (6) feet apart. A concentrated load was applied to the center of the fitting. The 1/2" thru 2" assemblies were subjected to 600 PSIG water pressure and 2-1/2" thru 4" were subjected to 400 PSI water pressure for one (1) hour at 68°F (20°C).
- 6. Vacuum Pressure Test
 - Fittings were subjected to a vacuum pressure of 24.5 inches of mercury for one (1) hour at 68°F (20°C).
- 7. Cyclic Pressure Test
 - Fittings were subjected to a hydraulic shock pressure of 400 PSIG for 10,000 cycles.
- 8. Vibration Test
 - a. Fitting assemblies were subjected to a hydrostatic cyclic vibration test at 400 PSIG and 2-1/2" thru 4" were subjected to 400 PSI water pressure for 1,000,000 cycles. After cycling, the 1/2" thru 2" assemblies were pressurized to 600 PSIG for 30 minutes and 2-1/2" thru 4" were pressurized to 400 PSI for 48 hours.
- 9. Thermocycling Test
 - a. Test assemblies were constructed using type L copper tube and press connect fittings. The test assemblies were subjected to flowing water at 145 psi cycled between 68°F (20°C) and 200°F (93°C) for a period of 15 minutes at each temperature for nominal size 2" and smaller. Nominal size 2 1/2" and larger were pressurized with air and immersed in water at 68°F (20°C) and 200°F (93°C). Cycling continued for 5,000 cycles for sizes 2" and smaller and 2,500 cycles for 2 1/2" and larger size fittings.
- 10. Dynamic Torque at 68°F (20°C) and 200°F (93°C)
 - a. Fittings were assembled between two lengths of hard-drawn copper tubing. With one tube fixed, the other tube twisted ±5° for 10,000 cycles at 68°F (20°C) or 200°F (93°C). Each assembly was then subjected to 400 PSIG water pressure at 68°F (20°C) or 200°F (93°C) for 1 hour.

Tests were performed with K and M hard drawn tubing. The thermocycle test used L hard drawn tube.

NIBCO® Press System — Sample Specification

FITTINGS

2" and Smaller:

Fittings shall comply with NSF 61, CSA, UPC and be approved by the local jurisdiction. The NIBCO Press System may be used at the contractor's option for the following building services piping - 20°F to +250°F up to 200 PSI:

- Hot and Cold Domestic Water
- Potable Water
- Condenser and Chilled Water Service
- Hot Water Heating Service

Wrot copper press fittings shall be made from commercially pure copper mill products per ASTM B 75 Alloy C12200. Cast copper alloy press fittings shall be made from materials with a minimum of 78% copper and a maximum of 15% zinc. The press fittings connections shall be compatible with seamless K, L or M copper tube made to ASTM B 88. Fittings shall have a maximum non-shock working pressure of 200 PSI between the temperatures of -20°F and +250°F. Elastomeric seals shall be made of EPDM material, and the fittings shall be manufactured with an inboard bead design. All fittings shall be installed in accordance with the manufacturer's installation instructions and according to local plumbing and mechanical codes. The press-to-connect joint shall be made with pressing tools and jaw sets recommended and authorized by NIBCO.

21/2" through 4":

Fittings shall comply with NSF 61, CSA, UPC and be approved by the local jurisdiction. The NIBCO Press System may be used at the contractor's option for the following building services piping - 20°F to +200°F up to 200 PSI:

- Hot and Cold Domestic Water
- Potable Water
- Condenser and Chilled Water Service
- Hot Water Heating Service

Wrot copper press fittings shall be made from commercially pure copper mill products per ASTM B 75 Alloy C12200. Cast copper alloy press fittings shall be made from materials with a minimum of 78% copper and a maximum of 15% zinc. The press fittings connections shall be compatible with seamless K, L or M copper tube made to ASTM B 88. Fittings shall have a maximum non-shock working pressure of 200 PSI between the temperatures of -20°F and +250°F. Elastomeric seals shall be made of EPDM material, and the fittings shall be manufactured with an inboard bead design. All fittings shall be installed in accordance with the manufacturer's installation instructions and according to local plumbing and mechanical codes. The press-to-connect joint shall be made with pressing tools and jaw sets recommended and authorized by NIBCO.

NIBCO® Press System — Sample Specification

VALVES

2" and Smaller Ball Valves: (on/off, isolation or throttling)

Ball valves with male or female press-to-connect ends shall be rated at 200 PSI CWP to +250°F maximum. Valves shall be manufactured in accordance with MSS SP-110 and constructed of dezincification resistant cast bronze bodies. No brass containing more than 15% zinc shall be approved. Valve shall have reinforced PTFE seats, blow-out proof stem, full-port ball, chrome/nickel plated ball or 316 SS ball for aggressive water conditions. Where piping is to be insulated, ball valves shall be equipped with 2" extended handles of non-thermal conductive material. Handle to have extended sleeve incorporating an insulation plug to provide a vapor barrier and allow valve operation without disturbing the insulation, and a memory stop, which can be set after installation.

Acceptable Valves: (non-insulated lines):

NIBCO® PC585-70, PF585-70 or PS585-70 (chrome/nickel plated ball)
NIBCO® PC585-70-66, PF585-70-66, PS585-70-66 or PCM585-60 (316 SS ball)

Acceptable Valves: (insulated lines):

NIBCO® PC585-70-NS, PF585-70-NS or PS585-70-NS (chrome/nickel plated ball)
NIBCO® PC585-70-66-NS, PF585-70-66-NS or PCM585-60-NS (316 SS ball)

(Note to Specifier: Include press gate valves in addition/in lieu of press ball valves for ON/OFF and isolation services if requested or required.)

2" and Smaller Gate Valves: (On/Off and Isolation)

Gate valves with male or female press-to-connect ends shall be rated to 200 PSI CWP at +250°F maximum. Valves shall be manufactured in accordance with MSS SP-80. Valve body, bonnet and wedge to be manufactured of dezincification resistant cast bronze (ASTM B 62). Stems shall be of silicon bronze (ASTM B 371) or low zinc alloy (ASTM B 99). Non-asbestos packing and malleable or ductile iron hand-wheel shall be standard.

Acceptable Valves:

NIBCO® PF111 or PS111 - rising stem gate valve
NIBCO® PF113 or PS113 - non-rising stem gate valve

2" and Smaller Globe and Angle Valves: (Throttling Service)

Globe and angle valves with male or female press-to-connect ends shall be rated to 200 PSI CWP at +250°F maximum. Valves shall be manufactured in accordance with MSS SP-80. Valve body, bonnet and wedge to be manufactured of dezincification resistant cast bronze (ASTM B 62). Stems shall be of silicon bronze (ASTM B 371) or low zinc alloy (ASTM B 99). Non-asbestos packing and malleable or ductile iron hand-wheel shall be standard.

Acceptable Valves:

NIBCO® PF211-Y or PS211-Y - globe valve NIBCO® PF311-Y or PS311-Y - angle valve

2" and Smaller Check Valves: (Back Flow Prevention)

Check valves (Y pattern, swing type or in-line) with male or female press-to-connect ends shall be rated at 200 PSI CWP to +250°F maximum. Valves shall be manufactured in accordance with MSS SP-80. Body and cap to be manufactured of dezincification resistant cast bronze (ASTM B 62 or ASTM B 584 Alloy C84400). Valves to have PTFE seat disc.

Acceptable Valves:

NIBCO® PF413-Y or PS413-Y - Y pattern, swing type check valve NIBCO® PF480-Y or PS480-Y - in-line spring loaded silent check valve

Drain Valves

At all low points in water piping to be drained or vented, provide 1/2" or 3/4" ball valves with male or female press-to-connect ends by hose-end drain valves. Valves shall be rated by 200 PSI CWP to +250°F maximum. Valves shall be manufactured in accordance with MSS SP-110. Valves to be constructed of dezincification resistant cast bronze bodies. Valve shall have reinforced PTFE seats, blow-out proof stem, and be full port. All valves shall be provided with 3/4" hose connection with cap and chain.

Acceptable Valves:

NIBCO® PS585-70-HC or PF585-70-HC

2 1/2" thru 4" Butterfly Valves: (On/Off, Isolation or Throttling)

Butterfly valves with female press-to-connect ends shall be rated at 200 PSI CWP to +250°F maximum. Valves shall be manufactured in accordance with MSS SP-67 and constructed of a ductile-iron body, for bubble-tight shutoff, extended-neck for insulation, disc and lining suitable for potable water, valves shall be suitable for bi-directional dead end service at full rated pressure, one-piece Type 416 stainless-steel stem, copper bushing, fasteners and pins shall not be used to attach stem to disc, no pins or fasteners in waterway, aluminum-bronze disc, and molded-in EPDM seat (liner).

Acceptable Valves:

NIBCO® PFD2000 series

NIBCO pressystem Installation Instructions

NIBCO Press System

The NIBCO Press System, when used with tested and authorized pressing tools and jaws, is designed to mechanically crimp fittings and valves onto copper tubing to create a watertight, permanent seal. When the switch on the pressing tool is depressed a small hydraulic pump generates thousands of pounds of crimping force to install the specially designed fittings and valves.

System Components

Fittings and Valves

NIBCO Press System copper or bronze fittings and valves

Tubing

ASTM B 88 seamless Hard Drawn Copper Water Tube: Types K, L and M.

Pressing Tools, Chains and Jaws

The pressing tool, chain and jaw are important parts of ensuring a reliable, permanent connection between NIBCO Press System fittings and valves and the copper water tube.

CAUTION — Use only pressing tools and jaw sets that have been tested and authorized for use with NIBCO Press System fittings and valves ⁽¹⁾. Use of unauthorized pressing tools and/or jaws may result in an improper seal that could cause extensive property damage.

Pressing Tool Safety

- Only use authorized pressing tools and jaws with NIBCO Press System fittings and valves. Other uses or modification of the jaws for other applications may damage the press tool, damage the jaws and/or cause personal injury.
- Keep fingers and hands away from jaws during pressing cycle. Your fingers
 or hands can be crushed, fractured or amputated if they become caught
 between the jaw tips or between the jaw and any other object.
- Always wear safety glasses while using pressing tools and jaws.
- Never attempt to repair a damaged jaw set. A jaw that has been modified in any manner can fail during crimping resulting in serious injury. Discard the entire damaged jaw set. Replace with a new jaw set.

WARNING: Please read these installation instructions and the manufacturer's pressing tool and jaw operators manual(s) carefully prior to installation of the NIBCO Press System. Failure to understand and follow the contents of this manual may result in extensive property damage, severe personal injury or death.

Please contact NIBCO Technical Services at 888.446.4226 if you have installation questions.

(1) See approved tool and jaw compatibility matrix in this catalog.

Chemical Compatibility

Please consult the most current edition of the NIBCO Chem-Guide for recommendations regarding chemical compatibility of material exposure to specific media and media-treatment additives. The NIBCO Chem-Guide is a general guide on the topic of chemical compatibility and is by no means an exhaustive resource on the subject. Ultimately, proper material selection is the responsibility of the installer and/or end-user, taking into account all aspects of a system's design and intended use.

Galvanic Potential in Piping Systems

Galvanic corrosion or dissimilar metal corrosion is an electrochemical process that is created through the electrical interaction of two different metals under the influence of a conductive media (i.e. an electrolyte). An electrolytic cell, much like a battery, is generated by these dissimilar metals using water as the electrolyte. The electrical charge, developed within the electrolytic cell, drives a preferential attack on the more electrically active metal with the water acting as the recipient of the discarded metal ions. Such galvanic attack is often encountered in service where iron or steel components are installed, and later corrode, in a largely copper piping system. Please consult NIBCO Technical Bulletin NTB-0714-01 Dielectric Products Relative to Electrolysis and Galvanic Corrosion.

Installation Instructions for 1/2" - 2" Press Fittings and Valves

WARNING: To prevent serious injury, inspect the pressing tool, battery charger (if applicable) and jaw sets according to the procedure outlined in the pressing tool instruction manual prior to beginning installation.

Failure to clean jaws can result in an improper connection that can lead to extensive property damage.

Preparing the Copper Tube

 Select clean, undamaged copper tube and cut to desired length. Cut tube end square using a tube cutter or fine-toothed saw. Do not crimp over damaged, scratched, gouged, or otherwise damaged tubing ends. Do not crimp over etch print streams on tubing. (Figure 1).



Figure 1 — Cut tube to desired length

- Deburr the tube inside and outside diameter using a half-round file or a deburring tool.
- 3. Clean the tube <u>end</u> of all dirt, oil and grease. (Emery cloth or sandpaper to clean the tube or remove oxidation <u>should not be used</u>.)

Inserting the Tube into the Fitting or Valve

1. Check the fitting to make sure the EPDM seal is in place, clean and free of dirt and debris (Figure 2).



Figure 2 — Check for EPDM Seal

WARNING: Never lubricate the EPDM seal in the NIBCO Press System fitting or valve with anything other than water. Oil-based lubricant, dirt or debris may damage the seal. An improper seal can lead to extensive property damage.



Figure 3 — Marking for Insertion Depth

- 2. Mark the tube with a permanent marker to indicate the proper tube insertion depth (Figure 3).
- 3. Refer to the minimum insertion depth table for correct depths
- 4. Insert the tube into the fitting or valve using a twisting motion. Make sure that the tube is fully inserted into the fitting stop or shoulder.

Tube Size	Insertion Depth (min.)						
Inches	Inches	mm					
1/2	11/16	18					
3/4	7/8	22					
1	7/8	22					
11/4	1	25					
11/2	13/8	35					
2	11/2	38					

CAUTION: Tubing that is difficult to insert may have burrs or could be out-of-round. Burrs must be removed and tubing end must be undamaged. Make sure tube is inserted to the proper depth. Failure to do so may result in an improper seal.

Attaching Pressing Jaws

- 1. Make sure the battery is removed or the cord is unplugged on the pressing tool prior to attaching or changing the crimp jaws.
- 2. Push and twist to open the jaw set mounting pin. (Figure 4).



Figure 4 — Pushing and twisting to open the jaw set mounting pin

3. If press tool contains a jaw set, slide it out of the crimping tool.

4. Select the jaw set that corresponds to the size of the joint to be crimped and insert the jaw set into the pressing tool (Figure 5).



Figure 5 — Inserting the NIBCO Press System jaw

Push the jaw set mounting pin until it clicks into position.NOTE: The tool will not properly press unless the pin is fully engaged.

Crimping a NIBCO Press System Fitting or Valve

 Make sure the tubing is inserted to the proper depth in the fitting. (Figure 6).

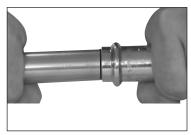


Figure 6 — Inserting the tube to proper depth

- 2. Squeeze jaw arms to open the jaw set.
- 3. Place the open jaws around the fitting and ensure that the contour of the jaw is properly aligned with the contour of the fitting (*Figure 7*).



Figure 7 — Open the jaw set and place around the fitting

4. Make sure the tool is perpendicular to the tubing and depress the switch (Figure 8). Keep the trigger depressed from the time the cycle begins and the rollers contact the jaw arms until the end of the entire crimp cycle.



Figure 8 — Jaw set should be square to tubing

5. Once the crimp is complete, press the jaw arms to open the jaw and remove from the fitting.

If the tool displays an LED flash or emits an audible alarm, please refer to the tool instruction manual for troubleshooting suggestions.

CAUTION Avoid handling sharp edges that may have formed on the fitting during the crimping operation.

Inspecting the Crimp

1. Inspect the crimped fitting to ensure proper crimp.

NOTE: The use of the NIBCO Press System jaw will produce a unique witness mark "N" on the crimped fitting.

- 2. Inspect the crimped fitting checking the connection for the following problems:
 - Not fully inserted tube, double check depth marks
 - Incorrect jaw alignment with the fitting contour

If any problems are found, a new section of tubing and a new fitting will need to be prepared, installed and crimped.

3. Test the NIBCO Press System in accordance with crimp intergrity testing instructions for fittings and valves in this catalog.



Installation Instructions for 2 1/2" - 4" Press Fittings and Valves

WARNING: To prevent serious injury, the pressing tool, battery charger (if applicable) and pressing chains should be inspected according to the procedure outlined in the pressing tool instruction manual prior to beginning installation.

Failure to clean pressing chains can result in an improper connection that can lead to extensive property damage.

Preparing the Copper Tube

 Select clean, undamaged copper tube and cut to the desired length. Cut tube end square using a tube cutter or fine-toothed saw. Do not crimp over damaged, scratched, gouged, or otherwise damaged tubing. Do not crimp over etch print streams on tubing (Figure 1).



Figure 1: Cut tube to desired length using s tube cutter

2. Deburr the tube inside diameter using a half-round file or deburring tool. Remove any copper shavings or filings (Figures 2 & 3).



Figure 2: Deburr inside diameter using a half-round file



Figure 3: Deburr inside diameter deburring tool

3. Deburr the tube outside diameter using a half-round file to prevent damage to the EPDM seal (Figure 4).



Figure 4: Deburr outside diameter using a half-round file

4. Clean the tube <u>end</u> of all contamination, oils and shavings. A smooth transition chamfer is recommended to ease tube insertion past the seal. (Emery cloth or sandpaper to clean the tube or remove oxidation <u>should not be used</u>.)

Inserting the Tube into the Fitting or Valve

 Check the fitting to make sure that the seal is in place and is free of oil or grease. Only original NIBCO® EPDM seals are to be used when making a press connection with NIBCO Press System fittings and valves. If it is necessary to lubricate the seals, use water only. **DO NOT** use any petroleum-based lubricants (Figure 5).



Figure 5: Check for EPDM seal

WARNING: Never lubricate the EPDM seal in a NIBCO Press System fitting or valve with anything other than water. Oil-based lubricants, dirt or debris may damage the seal. An improper seal can lead to extensive property damage.

Mark the proper insertion depth on the tube with a permanent marker <u>prior</u> to insertion, based on insertion depth chart. Refer to minimum insertion depth table for correct depths.

NIBCO® Press System Insertion Depth Chart					
Tube Size	21/2"	3″	4"		
Insertion Depth (min.)	1 ¹ /2"	1 ⁵ /8"	21/8"		

3. Insert the tube into the fitting or valve using a twisting motion. Make sure that the tube is fullly inserted into the fitting or valve.

WARNING: If tube is not inserted to the proper depth, an inadequate seal may result.

CAUTION: Tubing that is difficult to insert may have burrs or could be out-of-round. Burrs must be removed and tubing end should be undamaged. Make sure tube is inserted to the proper depth. Failure to do so may result in an improper seal.

Crimping a NIBCO Press System Fitting or Valve

CAUTION:

NIBCO press fittings and valves (2½", 3", 4" ends) to be installed **ONLY** with:

- NIBCO PC-100 and PC-280 pressing tools
- NIBCO PC-5 adapter jaw
- NIBCO pressing chain 2½" (PC-2), 3" (PC-3), 4" (PC-4)
- 1. Make sure that the battery is removed or that the cord is unplugged on the pressing tool prior to attaching or changing the adapter jaw.
- 2. Select the correct size pressing chain. Pull the pin on the chain which allows the segments to open. Position the chain on the raised bead and wrap the chain around the fitting with the "pipe side" designation facing the tube. When the chain is fully wrapped around the fitting, reinsert the pin to secure the chain on the assembled joint. Visually inspect the mark made for insertion depth, to ensure the tube remained in position (Figure 6).



Figure 6: Placement of the pressing chain onto fitting or valve

3. Release the pin (push and twist) on the jaw holder of the pressing tool, and install the adapter jaw on the tool. Return the pin to its original position, securing the jaw. The red sleeve on the tool must be in the back position to allow for crimping sizes 2½", 3" and 4" (Figure 7).



Figure 7: Placement of adapter jaw into the tool

4. Squeeze adapter jaw arms to open the jaw. Rollers must be fully retracted to open the adapter jaw. Place the open adapter jaw into the grooves in the pressing chain and let go of the jaw arms (Figure 8).



Figure 8: Placement of adapter jaw into pressing chain

- 5. Make sure the tubing is inserted to the proper depth in the fitting or valve, and that the tube and fitting or valve are aligned properly.
- With the pressing tool perpendicular to the tube, begin the pressing cycle by pulling the trigger of the pressing tool.
- 7. Keep the trigger depressed from the time the cycle begins and the rollers contact the jaw arms until the end of the entire cycle. Remove the pressing tool and adapter jaw from the pressing chain. Remove the pressing chain from the fitting.

If the tool displays an LED flash or emits an audible alarm, please refer to the toolinstruction manual for troubleshooting suggestions.

CAUTION: Avoid sharp edges that may have formed on the fitting during the crimping operation.

Inspecting the Crimp

1. Inspect the crimped fitting or valve to ensure proper crimp. The final crimp should appear pressed uniformly around the fitting or valve (Figure 9).



Figure 9: Inspection of final crimp

NOTE: The use of the NIBCO Press System chain will produce a unique witness mark "N".

- 2. Inspect the crimped fitting checking the connection for the following problems:
 - Not fully inserted tube, double check depth marks
 - Incorrect chain alignment with the fitting contour

If any problems are found, a new section of tubing and a new fitting will need to be prepared, installed, and crimped.

3. Test the NIBCO Press System in accordance with crimp integrity testing instructions for fittings and valves in this catalog.

NIBCO® Press System — Crimp Integrity Testing Instructions for Fittings & Valves

PRESSURE TESTING:

NIBCO recommends the following leak testing procedures when installing NIBCO Press System with the leak detection feature. These test procedures allow the installer to find un-pressed connections while the system is being tested under pressure. The uniquely designed EPDM o-ring allows fluids or gases to flow past the seal and leak when the fitting has not yet been pressed. When the fitting has been pressed, the o-ring will create a water tight seal around the tube.

AIR LEAK TESTING:

- 1. Pressurize system up to 15 PSI maximum using dry, oil free compressed air, carbon dioxide, or nitrogen.
- 2. Allow system pressure to stabilize for a minimum of 2 hours.
- 3. If system pressure has dropped, add more air to bring entire system up to 15 PSI maximum. If system pressure increases above 15 PSI, bleed off excess pressure to ensure system is at a maximum pressure of 15 PSI.
- 4. If the system pressure continues to drop, inspect all joints for un-pressed fittings. The NIBCO Press System press fittings with the leak detection feature are designed to leak in an un-pressed condition.
- 5. Check all press joints for air leaks using a commercially available leak test solution or a soap and water mixture.
- 6. Once the system has been confirmed to be leak free, pressure can be increased to the recommended working pressure to verify system integrity.

WATER LEAK TESTING:

- 1. Pressurize system up to 50 PSI maximum using potable water.
- 2. Allow system pressure to stabilize for a minimum of 2 hours.
- 3. If system pressure has dropped, add more water to bring entire system up to 50 PSI maximum. If system pressure increases above 50 PSI, bleed off excess pressure to ensure system is at a maximum pressure of 50 PSI.
- 4. If the system pressure continues to drop, inspect all joints for un-pressed fittings. The NIBCO Press System press fittings with the leak detection feature are designed to leak in an un-pressed condition.
- 5. Check all press joints for leaking water.
- 6. Once the system has been confirmed to be leak free, water pressure can be increased to the recommended working pressure to verify system integrity.

SYSTEM INTEGRITY TESTING*:

Once a system has been confirmed to be properly installed and no press connections have been left uncrimped, the system is recommended for testing up to the maximum non-shock working pressure of 200 PSI hydrostatic.

NOTE: While NIBCO Press System products are tested to pressures as high as 600 PSI, the product system rating limitation of 200 PSI is in place to ensure a safety factor of three-times proof-testing according to ASME B16.51 Copper and Copper Alloy Press-Connect Pressure Fittings.

SYSTEM INTEGRITY TESTING AT HIGHER PRESSURES*:

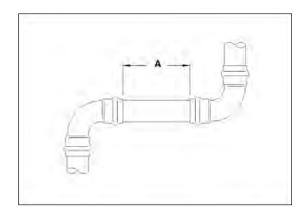
NIBCO Press System products can be tested at hydrostatic pressures higher than 200 CWP, not exceeding a maximum pressure of 300 PSI hydrostatic for a maximum test duration of 24 hours, when assembled and tested according to the methods prescribed above.

CAUTION: These testing parameters and protocols apply only to NIBCO products as detailed above: NIBCO accepts no responsibility or liability for any other manufacturer's products that may be damaged as a result of such testing.

*System integrity testing applies to leak detect and non-leak detect fittings and valves.

Minimum Distance Between Joints

To prevent distortion of the tubing, certain fitting sizes require a minimum distance between crimp joints (refer to *Chart 1* below). Failure to provide this minimum distance may result in an improper seal.



	A (min.)		
Tube Dia.	Inches	mm	
1/2"*	0	0	
3/4**	0	0	
1"*	0	0	
1½"*	0	0	
1½"*	0	0	
2" *	0	0	
21/2"	3/8"	10	
3"	3/8"	10	
4"	3/8"	10	

^{*}No minimum distance required.

System Support

CAUTION — In any installation, the system should be suported to ensure the minimum stress is imposed on the tube and joints. The NIBCO Press System should be supported in accordance with normal practice and to local jurisdiction piping code.

Annealing of Copper Tube

A NIBCO Press System installation should not be conducted within 12" of a **brazed** joint. The high temperature required for capillary joinery may cause the copper tube to become annealed and render it too soft for proper crimping. However, a NIBCO Press System product may be crimped adjacent to a **soldered** joint, as normal temperatures created by silver soldering are not hot enough to cause the copper tube to become annealed.

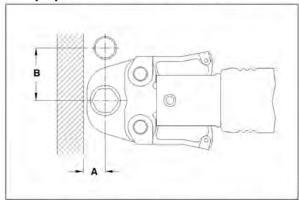
CAUTION — Brazing or soldering should not be conducted within 12" of an existing NIBCO Press System connection as this may damage the EPDM seal. If there is any concern about heat damage to the O-ring, a cold, wet cloth should be wrapped around the crimped connection prior to soldering or brazing.

Spacing

 Sufficient clearance must be left around each joint to allow room for the pressing tool and jaw to be attached without interference.

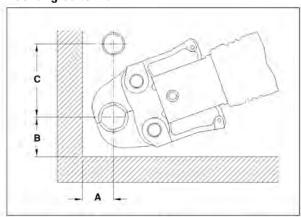
Clearance Requirements — Standard Jaw Sets

Tool perpendicular to wall



Tuba Dia	A (min.)		B (min.)		
Tube Dia.	Inches	mm	Inches	mm	
1/2	¹⁵ /16	24	1 ⁵ /8	41	
3/4	7/8	22	21/8	54	
1	11/4	31	21/2	64	
11/4	11/8	29	27/8	73	
11/2	2	51	43/8	111	
2	2	51	$4^{3}/_{8}$	111	

Tool angled to wall



T. L . D:-	A (min.)		B (min.)		C (min.)	
Tube Dia.	Inches	mm	Inches	mm	Inches	mm
1/2	11/8	28	13/8	35	21/2	64
3/4	1	26	11/2	38	21/2	64
1	1 ⁵ / ₁₆	34	13/4	45	3	76
$1^{1}/_{4}$	11/4	32	21/4	57	31/8	80
$1^{1}/_{2}$	21/8	54	$3^{1}/8$	80	5	127
2	21/8	54	31/8	80	5	127
$2^{1}/_{2}$	35/8	92	6	152	31/2	89
3	$3^{7}/8$	98	61/2	165	4	102
4	47/8	124	75/8	194	41/4	108

NOTE: Clearance dimensions for $2^1/2^{\circ}$, 3° & 4° are for wrapping pressing chains around fittings.



NIBCO® Press System — Frequently Asked Questions

What is the NIBCO product offering?

The NIBCO Press System features a full range of copper and copper alloy fittings, commercial valves, accessories and pressing tools, jaws and chains for use with K, L and M copper water tube.

What is the system temperature rating?

The NIBCO Press System is rated at 200 PSIG over a temperature range of -20°F to 250°F.

What are the approved system applications?

Approved applications include residential and commercial potable, hot, chilled and process water for plumbing and HVAC systems. The NIBCO Press System is designed for use with water glycol mixtures of ethylene or propylene glycol up to 50% at 200°F.

What was the testing protocol for the NIBCO Press System fittings and valves?

NIBCO Press System fittings and valves were subjected to a wide range of performance tests including dimensional verification, thread end specification, hydrostatic burst strength, unrestrained pressure, static torque, bending, vacuum pressure, cyclic pressure, vibration, thermo-cycling and dynamic torque. The testing protocol included testing to a 3X safety factor above the 200 PSIG system rating.

NIBCO testing was witnessed and validated by the internationally recognized NSF.

Can other available pressing tools and jaws be used on the NIBCO Press System?

See page 49 for a complete listing of approved tools and jaws.

Can a NIBCO Press System connection be re-crimped?

If for any reason the press cycle is interrupted, it is possible to re-crimp a NIBCO Press System connection. However, when re-crimping the connection, the jaws <u>must</u> be properly aligned so that the crimp is performed in the same location as the original.

How long will the EPDM seal last?

Accelerated life tests show that the EPDM seals used with the NIBCO Press System fittings and valves have a life expectancy of 50 years.

Are NIBCO Press System fittings available with solder or threaded by Press System connection?

NIBCO offers many Press System fitting combinations by soldered or threaded connection. Please note, always solder the standard wrot connection first when possible. Prior to soldering, remove the press end EPDM o-ring, solder, allow the fitting to cool, insert the EPDM O-ring, and then Press the connection.

Can a fitting be soldered close to a Press System connection?

NIBCO recommends soldering at least 12 inches away from the Press System connection. If this length is not possible, either solder the joint prior to connecting the press fitting or wrap the connection with a cold wet cloth.

Is the NIBCO Press System approved for underground use?

In accordance with local plumbing codes, the NIBCO Press System can be installed underground.

Is the NIBCO Press System compatible with standard disinfectant cleaning agents commonly utilized in a new water system?

Yes, the NIBCO Press System is typically compatible. For specific cleaning agent compatibility, contact NIBCO Technical Services at the below noted number.

NIBCO® Press System Fittings Limited Warranty

NIBCO INC. LIMITED WARRANTY

Applicable to NIBCO INC. Press System Fittings

NIBCO INC. warrants: NIBCO Press System fittings and flanges to be free from defects in materials and workmanship under normal use and service, for a period of 50 years from the Warranty Commencement Date. The Warranty Commencement Date for NIBCO Press System fittings and flanges shall be the date upon which the fitting or flange is installed.

This limited warranty applies to all NIBCO Press System fittings and flanges installed in accordance with NIBCO approved and published installation, testing, and application recommendations and instructions. This includes product installed in accordance with the Press Tool & Jaw Compatibility Matrix in effect at the time of installation as published in the most current online version of the NIBCO Press System Catalog.

NIBCO does NOT warrant against failure of NIBCO Press System fittings and flanges (referred to hereafter as "product") for:

- 1. any product, parts or systems which are not manufactured or sold by NIBCO INC.;
- 2. any product which is used for any purposes other than a purpose authorized by NIBCO INC.;
- any product not installed in accordance with either the recommended installation guidelines provided by NIBCO INC. and/or applicable plumbing codes;
- 4. damage to the product caused by, contributed in whole or in part by, or resulting from, any of the following:
 - a. abuse, misuse, mishandling, tampering, neglect or accidental damage, such as, without limitation, vandalism
 - b. natural disasters, such as, without limitation, flooding, windstorm and lightning
 - c. attachments or modifications to the product that are not authorized by NIBCO INC.
 - d. external causes, where external, physical or chemical qualities produce damage to the product, such as, without limitation, variation in water quality, aggressive water or an unsuitable or hostile environment, or
 - e. any other cause beyond the control of NIBCO INC.

NIBCO shall NOT be liable under any circumstances for any other direct or indirect, incidental or consequential damages of any kind, including but not limited to loss of business, lost profits, mold intrusion, water damage, etc. The liability of NIBCO under this warranty is solely limited to the repair or replacement, including installation expenses, of any product that has been determined by NIBCO INC., or an authorized representative or agent thereof, to contain a defect in material or workmanship.

This warranty is the only warranty for the product provided by NIBCO INC., and is and shall be in lieu of any and all other warranties, expressed or implied, including but not limited to an implied warranty of merchantability, and for all other obligations or liabilities on the part of the Manufacturer. No employee of NIBCO INC., or any other distributor, agent or other person or business, is authorized to make any other warranty on behalf of NIBCO INC.

In the event any defect occurs which is believed to be covered by this warranty, NIBCO Technical Services should be immediately contacted either in writing or by telephone at 888.446.4226. NIBCO Technical Services will make further arrangements for the product's return to NIBCO INC. for review and evaluation. In the event that a returned product is determined by NIBCO INC. to be defective, NIBCO INC. will remediate the failure by repairing or replacing the product within a reasonable time, without charge to the owner of the product.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

To the best of our knowledge, the information contained in this publication is accurate. However, NIBCO does not assume any liability whatsoever for the accuracy or completeness of such information. Final determinations of the suitability of any information or product for the use to be contemplated is the sole responsibility of the user. The manner of that use, and whether there is any infringement of patents, is also the sole responsibility of the user.



NIBCO® Press System Valves Warranty



NIBCO INC. 125% LIMITED WARRANTY

Applicable to NIBCO INC. Pressure Rated Metal Valves

NIBCO INC. warrants each NIBCO® pressure rated metal valve to be free from defects in materials and workmanship under normal use and service for a period of five (5) years from date put into service, with the exception of models PC-FP600A-LF, for which a two (2) year warranty period from date put into service applies.

In the event any defect occurs which the owner believes is covered by this warranty, the owner should immediately contact NIBCO Technical Services, either in writing or by telephone at (888) 446-4226 or (574) 295-3000. The owner will be instructed to return said product, at the owner's expense, to NIBCO INC., or an authorized representative for inspection. In the event said inspection discloses to the satisfaction of NIBCO INC. that said valve is defective, it will be replaced at the expense of NIBCO INC. Replacements shall be shipped free of charge to the owner. In the event of the replacement of any valve, NIBCO INC. shall further pay the owner the greater of Twenty-Five (25%) Percent of the price of the valve according to the NIBCO INC. published suggested list price schedule in effect at the time of purchase, or Ten (\$10.00) Dollars, to apply on the cost of the installation of said replacement valve.

TO THE EXTENT PERMITTED BY LAW, THIS WARRANTY SPECIFICALLY EXCLUDES INCIDENTAL AND CONSEQUENTIAL DAMAGES OF EVERY TYPE AND DESCRIPTION RESULTING FROM ANY CLAIMED DEFECT IN MATERIAL OR WORKMANSHIP, INCLUDING BUT NOT LIMITED TO, PERSONAL INJURIES AND PROPERTY DAMAGES. Some states or countries do not allow the exclusion or limitation of incidental or consequential damages so these limitations may not apply to you. TO THE EXTENT PERMITTED BY LAW, IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE LIMITED IN DURATION.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state and country to country.

The NIBCO Press System Warranty for tools, chains and jaws can be found at www.nibco.com, or by consulting NIBCO Technical Services at 1.888.446.4226.

how to order

State quantity, figure number and size for each valve you wish to order. See individual valve catalog pages for specific or special product designations.

HOW MANY TO ORDER

NIBCO valves are decimal packed for your convenience in handling, shipping and stock-keeping. Number in master carton varies with item.

POLICY ON RETURNS TO FACTORY

NO NIBCO valves are to be returned without prior written agreement. Transportation must be prepaid. A 20% charge will be made to cover cost of rehandling and reinspection.

TECHNICAL ASSISTANCE

Engineers, contractors, wholesalers or manufacturers may obtain special or technical assistance from any factory representative of NIBCO. Write, fax or phone.

NIBCO INC. World Headquarters 1516 Middlebury Street Elkhart, IN 46516-4740 USA

> Phone: 1.574.295.3000 Fax: 1.574.295.3307

Technical Service Phone: 1.888.446.4226

Fax: 1.888.336.4226

To the best of our knowledge, the information contained in this publication is accurate. However, NIBCO does not assume any liability whatsoever for the accuracy or completeness of such information. Final determinations of the suitability of any information or product for the use to be contemplated is the sole responsibility of the user. The manner of that use, and whether there is any infringement of patents, is also the sole responsibility of the user.

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It's a new age of business, and a new way at NIBCO. From Elkhart, Indiana to Lodz, Poland, and points beyond, our company has integrated manufacturing, distribution, and networked communications to provide a seamless source of information and service. 24 hours a day, 7 days a week. But this integration hasn't happened overnight. It's been part of a long-term strategic process that has pushed us to reconsider every aspect of our business. The result? We're a vertically integrated manufacturer with the products and systems in place to deliver low cost and high quality. NIBCO products are manufactured under a Quality Management System conforming to the current revision of ISO-9001 International Standards. We know the flow control industry is only going to get more demanding, and we are more than ready. We will continue to lead. That's what NIBCO is all about.



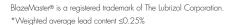
VALVES



Pressure-rated bronze, iron and alloy-iron gate, globe and check valves • Pressurerated bronze ball valves • Boiler specialty valves • Commercial and industrial butterfly valves • Lined butterfly valves • Circuit balancing valves • Carbon and stainless steel ball valves • ANSI flanged steel ball valves • Lined ball valves • Pneumatic and electric actuators and controls • Grooved ball and butterfly valves • High performance butterfly valves • UL/FM fire protection valves • MSS specification valves • Bronze specially valves • Low pressure gate, globe, check and ball valves • Frostproof sillcocks • Quarter-turn supply stops • Quarter-turn low pressure valves • PVC and CPVC plumbing and industrial ball valves • Bronze & Iron Y-strainers • Sample valves • Sanitary valves • Lead-Free* valves • Coil-Connect® Kits

FITTINGS -

Wrot and cast copper pressure and drainage fittings • Cast copper alloy flanges • Wrot and cast press fittings • ABS and PVC DWV fittings • Schedule 40 PVC pressure fittings • CPVC CTS fittings • CPVC CTS-to-metal transition fittings • Schedule 80 PVC and CPVC systems • CPVC BlazeMaster® fire protection fittings • Lead-Free* fittings





FLEXIBLE PIPING SYSTEMS



PE-RT and PEX tubing for potable and radiant applications • Insulated tubing • Risers • Ice maker tubing • Silicon Performance Bronze® fittings • Poly alloy fittings • Home Run Manifold® • Radiant heat manifolds • Ball valves and supply stops • Connections, tools and accessories • Radiant heat controls and panels

INDUSTRIAL PLASTICS

Thermoplastic pipe, valves, and fittings in PVC, Corzan® CPVC, polypropylene and PVDF Kynar® • Pneumatic and electric actuation systems • BlazeMaster® CPVC fire protection fittings

BlazeMaster® and Corzan® are registered trademarks of the Lubrizol Corporation • Kynar® is a registered trademark of Arkema Inc



eNIBCO

EDI-Electronic Data Interchange • VMI-Vendor Managed Inventory • NIBCO.com • NIBCOpartner.com





NIBCO INC. WORLD HEADQUARTERS

WFB: www.nibco.com

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DOMESTIC CUSTOMER SERVICE PHONE: 800.234.0227 FAX: 800.234.0557

FAX: 888.336.4226

TECHNICAL SERVICE

PHONE: 888.446.4226

INTERNATIONAL OFFICE PHONE: +1/574.295.3327 FAX: +1/574.295.3455

^{*}Weighted average lead content ≤0.25%