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ACR COPPER PRESS FITTINGS FOR HVAC AND VRF APPLICATIONS

JOB NAME	CONTRACTOR			
JOB LOCATION	WHOLESALER			
ENGINEER	STREAMLINE® REP			

PRODUCT DESCRIPTION:

Streamline® ACR Copper Press Fittings for use in HVAC and VRF applications. Available sizes ranging from 1/4" to 1-3/8" in outside diameter. Product is designed to join ASTM B280 and ASTM B88 hard-drawn copper tube (Types ACR, K, L) from 1/4" to 1-3/8" as well as ASTM B280 and ASTM B1003 soft (annealed) copper tube up to 7/8".

Streamline® ACR Press Fittings are compatible with the Milwaukee® Streamline® ACR Press Jaws made for both compact and full-sized press tools.

10-Year Limited Warranty

MATERIAL:

Streamline® ACR Press Fittings are comprised of a mechanical press copper fitting (UNS C12200 Min 99.9% pure copper for the body) and engineered HNBR sealing rings.

KEY SPECIFICATIONS:

Streamline® ACR Press Fittings shall conform to material requirements of ASME B16.22 and B16.51. Streamline® ACR Press Fittings shall conform to certain aspects of UL 207, 109, 1963, and ISO 14903. Engineered HNBR sealing rings for press fittings shall be HNBR and factory installed. Product is rated for a maximum operating pressure of 700 PSI.

INSTALLATION:

Streamline® ACR Press Fittings shall be installed by trained professionals. Installers of Streamline® ACR Press Fittings shall use manufacturer approved tools, jaws, and equipment. Streamline® ACR Press Fittings shall be installed in compliance with the latest applicable building codes for the local jurisdiction and manufacturer instructions. Per International Mechanical Code (IMC) and Uniform Mechanical Code (UMC), mechanical joints shall not be used on annealed copper tube in sizes larger than 7/8" OD.

APPROVALS & CERTIFICATIONS:

UL 207	Standard for Refrigerant-Containing Components and Accessories
	UL Listed Refrigerant Fitting SA33736 - United States and Canada
	Approved use for field and factory installations
UL 1963	Standard for Refrigerant Recovery/Recycling Equipment
UL 109	7 Pull Test
	8 Vibration Test
ISO 5149-2	5.3.2.2.3 Strength Pressure Test
ISO 14903	Maximum Helium Leak Rate of 0.1 oz. Per Year
	7.4 Tightness Test
	7.6 Pressure Temperature Vibration Tests (PTV)
	7.8 Freezing Test



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Use in Electrical Equipment

APPROVALS & CERTIFICATIONS CONTINUED:

IMC	International Mechanical Code certified, ICC-ES, PMG-1625
	2021, 2018, 2015, 2012, 2009, and 2006
IRC	International Residential Code certified, ICC-ES, PMG-1625
	2021, 2018, 2015, 2012, 2009 and 2006
UMC	Uniform Mechanical Code certified, ICC-ES, PMG-1625
	2021, 2018, 2015, 2012, 2009, and 2006
ASHRAE 15	Safety Standard for Refrigeration Systems
ASME B31.5	Refrigeration Piping and Heat Transfer Components
CSA C22.2	No. 140.3-15 Standard for Refrigerant-Containing Components for

REFERENCES:

99.9% Pure Copper
Hydrogenated Acrylonitrile Butadiene Rubber
Seamless Copper Water and Gas Tube (Types K and L)
Seamless Copper Tube for Air Conditioning and Refrigeration
Seamless Copper Tube for Linesets

APPROVED APPLICATIONS:

Air Conditioning	Technical Gases
Heat Pump	- Nitrogen
VRF and VRV	- Oxygen
Light Commercial	- Argon
Refrigeration	- Carbon Dioxide
Non-Potable Water	- Hydrogen
Ethylene Glycol	- Compressed Air
	- Inert Gases

OPERATING PARAMETERS:

Continuous Operating Pressure: 700 PSI / 48 BAR Max Continuous Operating Temperature: -40°F / -40°C to 250°F / 121°C Sealing Ring Temperature Rating: -40°F / -40°C to 300°F / 149°C

BURST PRESSURE:

>3x MAX OPERATING PRESSURE, 2100 PSI / 14400kPa / 144 BAR

VACUUM CAPABILITY:

200 microns

LEAK TIGHTNESS:

Helium \leq 7.5 x10⁻⁷ Pa \cdot m³/s at 20°C and 10 BAR

APPROVED REFRIGERANTS:

R-125, R-134a, R-32, R-404A, R-407A, R-407C, R-407F, R-407H, R-410A, R-417A, R-421A, R-422B, R-422D, R-427A, R-438A, R-444A, R-447A, R-447B, R-448A, R-449A, R-450A, R-452A, R-452B, R-452C, R-454A, R-454B, R-454C, R-457A, R-459A, R-507A, R-513A, R-513B, R-718, R-1234ze, R-1234yf, R-290, R-600A

APPROVED OILS:

Mineral Oil, POE, PVE, PAO, PAG, and AB

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TOOLS & INSTALLATION GUIDELINES

DISTANCE BETWEEN JOINTS PRESSING NEAR AN EXISTING PRESS CONNECTION

TUBE DIAMETER	MINIMUM DISTANCE REQUIRED					
OD INCH	INCH	MM				
1/4"	1/4"	7				
3/8"	1/4"	7				
1/2"	1/4"	7				
5/8"	1/4"	7				
3/4"	1/4"	7				
7/8"	1/4"	7				
1-1/8"	1/4"	7				
1-3/8"	1/4"	7				

SOLDERING OR BRAZING NEAR AN EXISTING PRESS CONNECTION

Brazing near Streamline® ACR Press Fittings should be avoided. The installer should take precautions to keep the press connection cool. These methods may include:

- 1. Wrapping the press connection with a cold wet cloth.
- 2. Fabricating solder connections prior to installing the press fitting.
- 3. Applying heat barrier spray, gels, or putty to avoid heat transfer to the press fitting.

	SOLDERING	BRA	AZING MINIMUM DISTANCE UNPROTECTED INCH 10" 10"			
TUBE DIAMETER	MINIMUM DISTANCE	MINIMUM DISTANCE WET WRAPPED	DISTANCE			
OD INCH	INCH	INCH	INCH			
1/4"	1-1/2"	5"	10"			
3/8"	1-1/2"	5"	10"			
1/2"	1-1/2"	5"	10"			
5/8"	1-1/2"	6"	12"			
3/4"	2-1/4"	7"	14"			
7/8"	3"	8"	16"			
1-1/8"	4"	11"	22"			
1-3/8"	4"	13"	26"			

ELECTRICAL CONTINUITY

Streamline® ACR Press Fittings maintain ground continuity without the need for additional ground continuity straps. The fittings must not be used as a source of electrical ground.

PRESSING NEAR AN EXISTING SOLDERED OR BRAZED CONNECTION

It is important that there is no foreign debris or residual brazing on the tubing to be inserted into the Streamline® ACR Press fitting. The surface condition on the area of press joint should be clean and free from debris and comply with ASTM B280 or ASTM B88 type K or L. The area of the braze joint shall be cooled down before insertion.

TUBE DIAMETER	MINIMUM DISTANCE REQUIRED				
OD INCH	INCH	MM			
1/4"	3"	76			
3/8"	3"	76			
1/2"	3"	76			
5/8"	3"	76			
3/4"	3"	76			
7/8"	3"	76			
1-1/8"	3"	76			
1-3/8"	3"	76			

PRESSURE LOSS

Elbow

Elbow

Elbow

Streamline[®] ACR Press Elbows are designed to provide the same radius and flow that is proven with our solder/braze type fittings.

PRESSURE LOSS EXPRESSED AS EQUIVALENT LENGTH (IN FEET OF PIPE)						
ТҮРЕ	OD INCHES	EQUIVALENT LENGTH (FT)				
Elbow	1/4"	.7				
Elbow	3/8"	.8				
Elbow	1/2"	.9				
Elbow	5/8"	1				
Elbow	3/4"	1.2				

7/8"

1-1/8"

1-3/8"

FLARE ADAPTER TIGHTENING TORQUE

Streamline® ACR Press Flare Adapters utilize a heavyduty flare nut that is made to comply with SAE standards in the US as well as JIS B 8607 and is suitable for connecting to minisplit and VRV/VRF equipment.

TUBE DIAMETER	FLARE TIGHTENING TORQUE (Do not overtighten)					
OD INCH	TORQUE FT-LBS TORQUE N-M					
1/4"	10-13	14-18				
3/8"	25-30	34-42				
1/2"	35-44	49-61				
5/8"	49-59	68-82				
3/4"	67-81	90-110				

For best results, apply a small amount of refrigerant oil to the flare face during installation and always torque the flare end prior to making the press connection.



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TESTING INSTRUCTIONS FOR STREAMLINE® ACR PRESS FITTINGS:

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After installing Streamline® ACR Press fittings, the system shall be tested for leaks. This can be done by pressurizing the system with dry nitrogen to a minimum of 50% of the system maximum operating pressure, up to 700 PSI. If holding pressure for extended periods (up to 24 hours), then temperature impacts may need to be taken into account. System leaks can be detected by using a soapy water spray or by utilizing a tracer gas and electronic leak detector.

Any leaks that are identified will need to be cut out and replaced. When replacing a fitting, installers should carefully inspect the surface of that tube before using another fitting to ensure a longitudinal scratch or other surface defect will not result in another leak. It is not allowable to braze the end of a leaking fitting. Always conduct a subsequent pressure test after any repairs are made. Federal, state, and local codes and regulations governing installation and testing must always be followed.

SPECIFICATION LANGUAGE:

Mechanical ACR Press Fitting: Shall conform to material requirements of ASME B16.22 and be listed to UL 207. Primary and secondary sealing rings for press fittings shall be HNBR and factory installed.

- a. Continuous Operating Pressure: 700 PSI / 48 BAR Max
- b. Continuous Operating Temperature: -40°F / -40°C to 250°F / 121°C
- c. Dual Factory Installed HNBR Engineered Sealing Ring
- d. Sealing Ring Temperature Rating: -40°F / -40°C to 300°F / 149°C

-OR-

Mechanical ACR pressed copper fittings shall contain two seals per cup and shall conform to the approved jointing manufacturers listed below.

1. Mueller Streamline[®] ACR Copper Press Fittings

TOOL & JAW INFORMATION:

Milwaukee® Tool has developed jaws for use specifically with Streamline® ACR Copper Press Fittings. There are jaws compatible with compact press tools such as Milwaukee® M12™ FORCE LOGIC™ Press Tool for 1/4" to 7/8" OD, and jaws compatible with full-sized press tools such as Milwaukee® M18™ Force Logic™ Press Tools for 1/4" to 1-3/8" OD Jaw kits are available with and without a Press Tool.

MILWAUKEE® STREAMLINE® ACR PRESS JAW PART NUMBERS									
	1/4"	3/8"	1/2"	5/8"	3/4"	7/8"	1-1/8"	1-3/8"	RING JAW
COMPACT JAWS FOR TOOLS SUCH AS M12™	49-16- 2450M	46-16- 2452M	49-16- 2453M	49-16- 2454M	49-16- 2455M	49-16- 2456M	-	-	-
STANDARD JAWS FOR TOOLS SUCH AS M18™	49-16- 2650M	49-16- 2652M	49-16- 2653M	49-16- 2654M	49-16- 2655M	49-16- 2656M	*49-16- 2657M	*49-16- 2658M	*49-16- 2659

*Combination of Jaw and Ring Jaw needed for installations above 1-1/8"

COMPATIBILITY

COMPACT JAWS FOR 1/4" - 7/8" ONLY

- Milwaukee M12[™] FORCELOGIC[™] 2473-20
- Rems Radial Press Compact 578012 Ridgid RP Series Compact RP 100.
- RP 200, RP 210, RP 240, RP 241
- DeWalt Compact Press Tool DCE210D2
- Rothenberger Twin Turbo

STANDARD JAWS FOR 1/4" – 1-3/8"

- Milwaukee[®] M18[™] FORCE LOGIC[™] 2922-20
- Milwaukee[®] M18[™] Long Throw 2773-20L
- Ridgid® RP300 series 320-E, RP 330-B, RP 330-C, or RP 340, RP 350
- Dewalt[®] Full Sized DCE200M2
- Hilti Full Sized NPR 32-A Pipe Press Tool
- REMS Full Sized 579011, 579010, 571014, 576011, 576010, 577010, 57211
- Klauke[®] UAP Series
- Rothenberger ROMAX[®] 4000, 3000, & AC ECO Series





Installation Instructions (1/4" - 1-1/8")



Cut tube square using a tube cutter or fine tooth saw.



Deburr tube ID & OD using 2 a deburring tool. Ensure tube ends are free of any burrs or sharp edges.



Clean and smooth 3 tube surface using abrasive pad. Tube surface should be free of indentation, scratches and deformations.



Mark tube to proper fitting 4 insertion depth with the Streamline[®] ACR Press Gauge or use the insertion depth chart below.



Check both fitting beads to ensure two seals per cup are present.



- Slightly rotate the fitting 6 while sliding it onto tube. Slide all the way to insertion mark & make contact with stop.
- Place press jaw over both **/a** beads at a right angle to the tube. Start the

pressing process. See

tool manufacturer for

tool instruction.



For 1-1/8"+, use the 7b For I-1/0 T, use the Streamline® ACR Press Ring, Ring Jaw, and compatible full-sized press tool. Place Press Ring over both beads at right angle to tube. Use ring jaw to start the pressing process.





Streamline [®] ACR Press Fitting Insertion Depth Chart (1/4" - 1-3/8")									
Tube Size (OD)	1/4″	3/8″	1/2″	5/8″	3/4"	7/8″	1-1/8″	1-3/8″	
Insertion Deptch	1″	1-1/16″	1-3/16″	1-5/16″	1-3/8″	1-7/16″	1-1/2″	1-5/8″	

Failure to follow all instructions could affect joint/system integrity and may lead to property damage. Call Customer Service at 1-800-FITTING if you have any questions or need assistance.



Eve and hand protection must be worn.

With approved press tool & jaws, such as the Milwaukee® Streamline® ACR Press Jaws. Failure to use correct jaws will affect joint/system integrity & may lead to property damage. Please see specific tool manufacturer for tool instruction.



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PRESS x PF	RESS					PRESS x PRESS x PRESS
Item No.	Diameter OD		х	Wgt.	Inner	Item No. Diameter OD
RP02715	1/4"		0.51	0.04	5	RP04000 3/8"
RP02716	3/8"		0.75	0.07	5	RP04001 1/2"
RP02717	1/2"		0.75	0.11	5	RP04006 5/8"
RP02722	5/8"		0.87	0.17	3	RP04017 3/4"
RP02728	3/4"		1.08	0.22	3	RP04031 7/8"
RP02734	7/8"		1.08	0.22	3	RP04048 1-1/8"
RP02734 RP02747	1-1/8"		1.30	0.27	2	RP04068 1-3/8"
RP02055	1-3/8"		1.65	0.59	2	
111 02000	10,0			0.01	-	
	V • STREET					FLARE PRESS x FLR SAE
FTG x PRES	S				z T	
					⊥Lį́J	Item No. Diameter OD RP15725 1/4"
ltem No.	Diameter OD	X	Z	Wgt.	Inner	RP15726 3/8"
RP02808	1/4"	0.51	1.56	0.03	5	RP15727 1/2"
RP02809	3/8"	0.75	2.07	0.07	5	RP15728 5/8"
RP02817	1/2"	0.75	1.93	0.10	5	RP15729 3/4"
RP02822	5/8"	0.87	2.19	0.16	3	
RP02828	3/4"	1.08	2.42	0.20	3	
RP02834	7/8"	1.08	2.52	0.26	3	
RP02847	1-1/8"	1.30	2.83	0.20	2	45° ELBOW
RP02350	1-3/8"	1.65	2.03	0.53	2	PRESS X PRESS
nru233U	1-3/0	1.65	১.১।	U.DJ	Z	
CAP						Item No. Diameter OD
PRESS					x	Item No. Diameter OD RP03005 1/4"
					T T T	RP03012 3/8"
						RP03012 3/0 RP03021 1/2"
Item No.	Diameter OD		Х	Wgt.	Inner	
RP07002	1/4"		0.10	0.02	5	RP03026 5/8"
RP07004	3/8"		0.16	0.02	5	RP03030 3/4"
RP07006	1/2"		0.18	0.05	5	RP03034 7/8"
RP07000 RP07007	5/8"		0.18	0.05	2	RP03044 1-1/8"
RP07007	3/4"		0.22	0.07	2	RP03050 1-3/8"
RP07008 RP07009	3/4 7/8"		0.18	0.09	2	
111 07 009	7/8 1-1/8"		0.18	0.12	2	
DD07011	1=1/0					
	1_3/8"			0.21	1	COUDI INC . EVTENDED . NO ST
RP07011 RP07012	1-3/8"		0.2	0.21	1	COUPLING • EXTENDED • NO ST PRESS × PRESS
RP07012	1-3/8" • STAKED STOP			0.21		PRESS x PRESS
RP07012	• STAKED STOP			0.21		PRESS x PRESS
RP07012	• STAKED STOP					Item No. Diameter OD RP01947 1/4* RP01948 3/8* RP01949 1/2*
RP07012 COUPLING PRESS x PF Item No.	• Staked Stop Ress		0.2 X	0.21	Linner	Item No. Diameter OD RP01947 1/4* RP01948 3/8* RP01949 1/2* RP01950 5/8*
RP07012 COUPLING PRESS x PF Item No. RP10141	STAKED STOP RESS Diameter OD 1/4"		0.2 X 0.08	Wgt. 0.03		Item No. Diameter OD RP01947 1/4* RP01948 3/8* RP01949 1/2* RP01950 5/8* RP01951 3/4*
RP07012 COUPLING PRESS x PF <u>Item No.</u> RP10141 RP10143	• STAKED STOP RESS Diameter OD 1/4° 3/8°		0.2 X 0.08 0.08	Wgt. 0.03 0.05	Inner 5 5	Item No. Diameter OD RP01947 1/4* RP01948 3/8* RP01949 1/2* RP01950 5/8*
RP07012 COUPLING PRESS x PF <u>Item No.</u> RP10141 RP10143 RP10144	• STAKED STOP RESS Diameter OD 1/4" 3/8" 1/2"		0.2 X 0.08 0.08 0.08	Wgt. 0.03 0.05 0.09	Inner 5 5 5	Item No. Diameter OD RP01947 1/4* RP01948 3/8* RP01949 1/2* RP01950 5/8* RP01951 3/4*
RP07012 COUPLING PRESS x PF Item No. RP10141 RP10143 RP10144 RP10145	• STAKED STOP RESS Diameter OD 1/4" 3/8" 1/2" 5/8"		0.2 X 0.08 0.08 0.08 0.08	Wgt. 0.03 0.05 0.09 0.13	Inner 5 5 5 5 5	Item No. Diameter OD RP01947 1/4* RP01948 3/8* RP01949 1/2* RP01950 5/8* RP01951 3/4* RP01952 7/8*
RP07012 COUPLING PRESS x PF Item No. RP10141 RP10143 RP10144 RP10145 RP10157	• STAKED STOP RESS Diameter OD 1/4" 3/8" 1/2" 5/8" 3/4"		0.2 X 0.08 0.08 0.08 0.08 0.08 0.08	Wgt. 0.03 0.05 0.09 0.13 0.15	Inner 5 5 5 5 5 2	Item No. Diameter OD RP01947 1/4* RP01948 3/8* RP01949 1/2* RP01950 5/8* RP01951 3/4* RP01952 7/8* RP01955 1-1/8*
RP07012 COUPLING PRESS x PF <u>Item No.</u> RP10141 RP10143 RP10144 RP10145 RP10145 RP10146	• STAKED STOP RESS <u>Diameter OD</u> 1/4" 3/8" 1/2" 5/8" 3/4" 7/8"		0.2 X 0.08 0.08 0.08 0.08 0.08 0.08 0.08	Wgt. 0.03 0.05 0.09 0.13 0.15 0.19	Inner 5 5 5 5 5 2 2	Item No. Diameter OD RP01947 1/4* RP01948 3/8* RP01949 1/2* RP01950 5/8* RP01951 3/4* RP01952 7/8* RP01955 1-1/8*
RP07012 COUPLING PRESS x PF Item No. RP10141 RP10143 RP10144 RP10145 RP10145 RP10146 RP10147	• STAKED STOP RESS Diameter OD 1/4" 3/8" 1/2" 5/8" 3/4" 7/8" 1-1/8"		0.2 X 0.08 0.08 0.08 0.08 0.08 0.08 0.08 0.	Wgt. 0.03 0.05 0.09 0.13 0.15 0.19 0.27	Inner 5 5 5 5 2 2 2 2	Item No. Diameter OD RP01947 1/4* RP01948 3/8* RP01949 1/2* RP01950 5/8* RP01951 3/4* RP01952 7/8* RP01955 1-1/8*
RP07012 COUPLING PRESS x PF Item No. RP10141 RP10143 RP10144 RP10145	• STAKED STOP RESS <u>Diameter OD</u> 1/4" 3/8" 1/2" 5/8" 3/4" 7/8"		0.2 X 0.08 0.08 0.08 0.08 0.08 0.08 0.08	Wgt. 0.03 0.05 0.09 0.13 0.15 0.19	Inner 5 5 5 5 5 2 2	Item No. Diameter OD RP01947 1/4* RP01948 3/8* RP01949 1/2* RP01950 5/8* RP01951 3/4* RP01952 7/8* RP01955 1-1/8*
RP07012 COUPLING PRESS x PF Item No. RP10141 RP10143 RP10145 RP10145 RP10145 RP10146 RP10147 RP10148	• STAKED STOP RESS Diameter OD 1/4" 3/8" 1/2" 5/8" 3/4" 7/8" 1-1/8" 1-3/8"		0.2 X 0.08 0.08 0.08 0.08 0.08 0.08 0.08 0.	Wgt. 0.03 0.05 0.09 0.13 0.15 0.19 0.27	Inner 5 5 5 5 2 2 2 2	Item No. Diameter OD RP01947 1/4* RP01948 3/8* RP01949 1/2* RP01950 5/8* RP01951 3/4* RP01952 7/8* RP01955 1-1/8*
RP07012 COUPLING PRESS x PF Item No. RP10141 RP10143 RP10143 RP10145 RP10145 RP10145 RP10147 RP10148 COUPLING	• STAKED STOP RESS 1/4" 3/8" 1/2" 5/8" 3/4" 7/8" 1-1/8" 1-3/8" • REDUCING		0.2 X 0.08 0.08 0.08 0.08 0.08 0.08 0.08 0.	Wgt. 0.03 0.05 0.09 0.13 0.15 0.19 0.27	↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	Item No. Diameter OD RP01947 1/4* RP01948 3/8* RP01949 1/2* RP01950 5/8* RP01951 3/4* RP01952 7/8* RP01955 1-1/8*
RP07012 COUPLING PRESS x PF Item No. RP10141 RP10143 RP10145 RP10145 RP10147 RP10146 RP10147 RP10148 COUPLING PRESS x PF	• STAKED STOP RESS Diameter OD 1/4" 3/8" 1/2" 5/8" 3/4" 7/8" 1-1/8" 1-3/8" • REDUCING RESS		0.2 X 0.08 0.08 0.08 0.08 0.08 0.08 0.08 0.08 0.08 0.08 0.08	Wgt. 0.03 0.05 0.09 0.13 0.15 0.19 0.27 0.36	Inner 5 5 5 2 2 2 2 x	Item No. Diameter OD RP01947 1/4* RP01948 3/8* RP01949 1/2* RP01950 5/8* RP01951 3/4* RP01952 7/8* RP01955 1-1/8*
RP07012 COUPLING PRESS x PF Item No. RP10141 RP10143 RP10144 RP10145 RP10145 RP10147 RP10147 RP10147 RP10147 RP10147 RP10148 COUPLING PRESS x PF Item No.	• STAKED STOP RESS Diameter OD 1/4" 3/8" 1/2" 5/8" 3/4" 7/8" 1-1/8" 1-3/8" • REDUCING RESS Diameter OD		0.2 X 0.08 0.08 0.08 0.08 0.08 0.08 0.08 0.08 0.08 0.08 0.08 X	Wgt. 0.03 0.05 0.09 0.13 0.15 0.19 0.27 0.36		Item No. Diameter OD RP01947 1/4* RP01948 3/8* RP01949 1/2* RP01950 5/8* RP01951 3/4* RP01952 7/8* RP01955 1-1/8*
RP07012 COUPLING PRESS x PF Item No. RP10141 RP10143 RP10144 RP10145 RP10146 RP10147 RP10147 RP10148 COUPLING PRESS x PF Item No. RP01011	• STAKED STOP RESS Diameter OD 1/4" 3/8" 1/2" 5/8" 3/4" 7/8" 1-1/8" 1-3/8" • REDUCING RESS Diameter OD 3/8" x 1/4"		0.2 X 0.08	Wgt. 0.03 0.05 0.09 0.13 0.15 0.19 0.27 0.36		Item No. Diameter OD RP01947 1/4* RP01948 3/8* RP01949 1/2* RP01950 5/8* RP01951 3/4* RP01952 7/8* RP01955 1-1/8*
RP07012 COUPLING PRESS x PF Item No. RP10141 RP10143 RP10144 RP10145 RP10147 RP10146 RP10147 RP10148 COUPLING PRESS x PF Item No. RP01011 RP01021	• STAKED STOP RESS Diameter OD 1/4" 3/8" 1/2" 5/8" 3/4" 7/8" 1-1/8" 1-3/8" • REDUCING RESS Diameter OD 3/8" × 1/4" 1/2" × 1/4"		0.2 X 0.08 0.09 0.00	Wgt. 0.03 0.09 0.13 0.15 0.9 0.27 0.36		Item No. Diameter OD RP01947 1/4* RP01948 3/8* RP01949 1/2* RP01950 5/8* RP01951 3/4* RP01952 7/8* RP01955 1-1/8*
RP07012 COUPLING PRESS x PF Item No. RP10141 RP10143 RP10145 RP10145 RP10147 RP10146 RP10147 RP10148 COUPLING PRESS x PF Item No. RP01011 RP01021 RP01019	STAKED STOP RESS Diameter OD 1/4" 3/8" 1/2" 5/8" 3/4" 7/8" 1-1/8" 1-3/8" REDUCING RESS Diameter OD 3/8" × 1/4" 1/2" × 1/4" 1/2" × 3/8"		0.2 X 0.08 0.24 0.24 0.24 0.24	Wgt. 0.03 0.09 0.13 0.15 0.99 0.36		Item No. Diameter OD RP01947 1/4* RP01948 3/8* RP01949 1/2* RP01950 5/8* RP01951 3/4* RP01952 7/8* RP01955 1-1/8*
RP07012 COUPLING PRESS x PF Item No. RP10141 RP10143 RP10144 RP10145 RP10145 RP10145 RP10147 RP10147 RP10148 COUPLING PRESS x PF Item No. RP01011 RP01021 RP01027	• STAKED STOP RESS Diameter OD 1/4" 3/8" 1/2" 5/8" 3/4" 7/8" 1-1/8" 1-3/8" • REDUCING RESS Diameter OD 3/8" × 1/4" 1/2" × 3/8" 5/8" × 1/4"		0.2 X 0.08 0.02 0.08 0.24 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.55 0.55 0.55 0.55 0.55 0.55 0.55 0.55 0.55 0.55 0.55	Wgt. 0.03 0.05 0.09 0.13 0.15 0.19 0.27 0.36	↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	Item No. Diameter OD RP01947 1/4* RP01948 3/8* RP01949 1/2* RP01950 5/8* RP01951 3/4* RP01952 7/8* RP01955 1-1/8*
RP07012 COUPLING PRESS x PF Item No. RP10141 RP10143 RP10144 RP10145 RP10146 RP10147 RP10146 RP10147 RP10148 COUPLING PRESS x PF Item No. RP01011 RP01021 RP01027 RP01025	• STAKED STOP RESS Diameter OD 1/4" 3/8" 1/2" 5/8" 3/4" 7/8" 1-1/8" 1-3/8" • REDUCING RESS Diameter OD 3/8" × 1/4" 1/2" × 3/8" 5/8" × 3/8"		0.2 X 0.08 0.24 0.24 0.51	Wgt. 0.03 0.05 0.09 0.13 0.15 0.19 0.27 0.36 Wgt. 0.04 0.06 0.07 0.08 0.10		Item No. Diameter OD RP01947 1/4* RP01948 3/8* RP01949 1/2* RP01950 5/8* RP01951 3/4* RP01952 7/8* RP01955 1-1/8*
RP07012 COUPLING PRESS x PF Item No. RP10141 RP10143 RP10144 RP10145 RP10147 RP10146 RP10147 RP10148 COUPLING PRESS x PF Item No. RP01011 RP01021 RP01027 RP01023	STAKED STOP RESS Diameter OD 1/4" 3/8" 1/2" 5/8" 3/4" 7/8" 1-1/8" 1-3/8" REDUCING RESS Diameter OD 3/8" × 1/4" 1/2" × 3/8" 5/8" × 1/4" 5/8" × 3/8" 5/8" × 1/2"		0.2 X 0.08 0.04 0.24 0.24 0.43 0.43 0.43 0.44 0.43 0.43 0.44 0.43 0.43 0.44 0.43 0.43 0.44 0.43 0.44 0.43 0.44 0.43 0.44 0.43 0.44 0.43 0.44	Wgt. 0.03 0.13 0.15 0.9 0.13 0.15 0.9 0.36 Wgt. 0.04 0.07 0.30		Item No. Diameter OD RP01947 1/4* RP01948 3/8* RP01949 1/2* RP01950 5/8* RP01951 3/4* RP01952 7/8* RP01955 1-1/8*
RP07012 COUPLING PRESS x PF Item No. RP10141 RP10143 RP10144 RP10145 RP10147 RP10146 RP10147 RP10147 RP10148 COUPLING PRESS x PF Item No. RP01011 RP01021 RP01025 RP01023 RP01030	STAKED STOP RESS Diameter OD 1/4" 3/8" 1/2" 5/8" 3/4" 7/8" 1-1/8" 1-3/8" REDUCING RESS Diameter OD 3/8" × 1/4" 1/2" × 1/4" 1/2" × 1/4" 5/8" × 1/2" 5/8" × 1/2" 5/8"		0.2 X 0.08 0.24 0.39 0.24 0.45 0.45 0.45 0.45 0.45	Wgt. 0.03 0.09 0.13 0.15 0.99 0.36 Wgt. 0.36 Wgt. 0.036 0.036 0.036 0.04 0.06 0.07 0.08 0.12 0.13		Item No. Diameter OD RP01947 1/4* RP01948 3/8* RP01949 1/2* RP01950 5/8* RP01951 3/4* RP01952 7/8* RP01955 1-1/8*
RP07012 COUPLING PRESS x PF Item No. RP10141 RP10143 RP10144 RP10145 RP10145 RP10145 RP10147 RP10147 RP10147 RP10147 RP10148 COUPLING PRESS x PF Item No. RP01021 RP01021 RP01027 RP01023 RP01023 RP01029	• STAKED STOP RESS Diameter OD 1/4" 3/8" 1/2" 5/8" 3/4" 7/8" 1-1/8" 1-1/8" 1-3/8" • REDUCING RESS Diameter OD 3/8" × 1/4" 1/2" × 3/8" 5/8" × 3/8" 5/8" × 1/4" 5/8" × 3/8" 5/8" × 1/2" 3/4" × 1/2" 3/4" × 1/2" 3/4" × 1/2"		0.2 X 0.08 0.24 0.24 0.24 0.24 0.35 0.24 0.35 0.24 0.35 0.24 0.35 0.24 0.35 0.24 0.35 0.24	Wgt. 0.03 0.05 0.09 0.13 0.15 0.19 0.27 0.36 Wgt. 0.04 0.06 0.07 0.08 0.10 0.13 0.14	Inner	Item No. Diameter OD RP01947 1/4* RP01948 3/8* RP01949 1/2* RP01950 5/8* RP01951 3/4* RP01952 7/8* RP01955 1-1/8*
RP07012 COUPLING PRESS x PF Item No. RP10141 RP10143 RP10144 RP10145 RP10145 RP10145 RP10147 RP10147 RP10147 RP10147 RP10148 COUPLING PRESS x PF Item No. RP01021 RP01021 RP01027 RP01023 RP01023 RP01029	 STAKED STOP RESS Diameter OD 1/4" 3/8" 1/2" 5/8" 3/4" 7/8" 1-1/8" 1-3/8" REDUCING RESS Diameter OD 3/8" × 1/4" 1/2" × 3/8" 5/8" × 3/8" 5/8" × 1/4" 5/8" × 3/8" 5/8" × 1/4" 5/8" × 3/8" 5/8" × 1/4" 5/8" × 1/4" 7/8" × 1/4" 		0.2 X 0.08 0.24 0.51 0.51 0.24 0.24 0.51 0.24 0.24 0.24 0.24 0.51 0.24	Wgt. 0.03 0.09 0.13 0.15 0.99 0.36 Wgt. 0.36 Wgt. 0.036 0.036 0.036 0.04 0.06 0.07 0.08 0.12 0.13		Item No. Diameter OD RP01947 1/4* RP01948 3/8* RP01949 1/2* RP01950 5/8* RP01951 3/4* RP01952 7/8* RP01955 1-1/8*
RP07012 COUPLING PRESS x PF Item No. RP10141 RP10143 RP10144 RP10145 RP10147 RP10146 RP10147 RP10148 COUPLING PRESS x PF Item No. RP01011 RP01021 RP01027 RP01023	• STAKED STOP RESS Diameter OD 1/4" 3/8" 1/2" 5/8" 3/4" 7/8" 1-1/8" 1-1/8" 1-3/8" • REDUCING RESS Diameter OD 3/8" × 1/4" 1/2" × 3/8" 5/8" × 3/8" 5/8" × 1/4" 5/8" × 3/8" 5/8" × 1/2" 3/4" × 1/2" 3/4" × 1/2" 3/4" × 1/2"		0.2 X 0.08 0.24 0.24 0.24 0.24 0.35 0.24 0.35 0.24 0.35 0.24 0.35 0.24 0.35 0.24 0.35 0.24	Wgt. 0.03 0.05 0.09 0.13 0.15 0.19 0.27 0.36 Wgt. 0.04 0.06 0.07 0.08 0.10 0.13 0.14	Inner	Item No. Diameter OD RP01947 1/4* RP01948 3/8* RP01949 1/2* RP01950 5/8* RP01951 3/4* RP01952 7/8* RP01955 1-1/8*
RP07012 COUPLING PRESS x PF Item No. RP10141 RP10143 RP10144 RP10145 RP10146 RP10147 RP10146 RP10147 RP10148 COUPLING PRESS x PF Item No. RP01011 RP01021 RP01025 RP01025 RP01025 RP01029 RP01037	 STAKED STOP RESS Diameter OD 1/4" 3/8" 1/2" 5/8" 3/4" 7/8" 1-1/8" 1-3/8" REDUCING RESS Diameter OD 3/8" × 1/4" 1/2" × 3/8" 5/8" × 3/8" 5/8" × 1/4" 5/8" × 3/8" 5/8" × 1/4" 5/8" × 3/8" 5/8" × 1/4" 		0.2 X 0.08 0.24 0.51 0.51 0.24 0.24 0.51 0.24 0.24 0.24 0.24 0.51 0.24	Wgt. 0.03 0.05 0.09 0.13 0.15 0.19 0.27 0.36 Wgt. 0.04 0.06 0.70 0.80 0.10 0.12 0.14 0.16		Item No. Diameter OD RP01947 1/4* RP01948 3/8* RP01949 1/2* RP01950 5/8* RP01951 3/4* RP01952 7/8* RP01955 1-1/8*
RP07012 COUPLING PRESS x PF Item No. RP10141 RP10143 RP10144 RP10145 RP10145 RP10147 RP10146 RP10147 RP10147 RP10148 COUPLING PRESS x PF Item No. RP01011 RP01011 RP01021 RP01021 RP01023 RP01023 RP01037 RP01035	STAKED STOP RESS Diameter OD 1/4" 3/8" 1/2" 5/8" 3/4" 7/8" 1-1/8" 1-3/8" REDUCING RESS Diameter OD 3/8" × 1/4" 1/2" × 1/4" 1/2" × 1/4" 1/2" × 1/4" 5/8" × 1/4" 5/8" × 1/4" 5/8" × 1/2" 3/4" × 5/8" 7/8" × 1/2" 7/8" × 3/4"		0.2 X 0.08 0.024 0.39 0.24 0.2	Wgt. 0.03 0.05 0.09 0.13 0.15 0.9 0.36 Wgt. 0.06 0.07 0.08 0.12 0.13 0.14 0.16 0.18 0.18	Inner	Item No. Diameter OD RP01947 1/4* RP01948 3/8* RP01949 1/2* RP01950 5/8* RP01951 3/4* RP01952 7/8* RP01955 1-1/8*
RP07012 COUPLING PRESS x PF Item No. RP10141 RP10143 RP10144 RP10145 RP10145 RP10145 RP10147 RP10147 RP10148 COUPLING PRESS x PF Item No. RP01011 RP01021 RP01021 RP01021 RP01023 RP01023 RP01030 RP01035 RP01035 RP01052	STAKED STOP RESS Diameter OD 1/4" 3/8" 1/2" 5/8" 3/4" 7/8" 1-1/8" 1-3/8" REDUCING RESS Diameter OD 3/8" × 1/4" 1/2" × 3/8" 5/8" × 1/4" 5/8" × 1/2" 3/4" × 5/8" 7/8" × 1/2" 7/8" × 3/4" 1-1/8" × 1/2"		0.2 X 0.08 0.24 0.25 0.24 0.24 0.24 0.24 0.24 0.25 0.24	Wgt. 0.03 0.05 0.09 0.13 0.15 0.19 0.27 0.36 Wgt. 0.06 0.07 0.08 0.12 0.13 0.14 0.16 0.18 0.22	Inner	Item No. Diameter OD RP01947 1/4* RP01948 3/8* RP01949 1/2* RP01950 5/8* RP01951 3/4* RP01952 7/8* RP01955 1-1/8*
RP07012 COUPLING PRESS x PF Item No. RP10141 RP10143 RP10144 RP10145 RP10146 RP10147 RP10146 RP10147 RP10148 COUPLING PRESS x PF Item No. RP01021 RP01021 RP01025 RP01025 RP01035 RP01035 RP01050	 STAKED STOP RESS Diameter OD 1/4" 3/8" 1/2" 5/8" 3/4" 7/8" 1-1/8" 1-3/8" REDUCING RESS Diameter OD 3/8" × 1/4" 1/2" × 1/4" 1/2" × 3/8" 5/8" × 1/4" 7/8" × 5/8" 7/8" × 5/8" 7/8" × 5/8" 1-1/8" × 5/8" 		0.2 X 0.08 0.024 0.51 0.24 0.251 0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.251 0.24 0.251 00	Wgt. 0.03 0.05 0.09 0.13 0.15 0.19 0.27 0.36 Wgt. 0.04 0.06 0.70 0.8 0.10 0.12 0.13 0.14 0.16 0.18 0.22 0.24	Inner	Item No. Diameter OD RP01947 1/4* RP01948 3/8* RP01949 1/2* RP01950 5/8* RP01951 3/4* RP01955 1-1/8*
RP07012 COUPLING PRESS x PF Item No. RP10141 RP10143 RP10144 RP10145 RP10145 RP10147 RP10146 RP10147 RP10147 RP10148 COUPLING PRESS x PF Item No. RP01021 RP01021 RP01021 RP01027 RP01023 RP01030 RP01035 RP01035 RP01052	STAKED STOP RESS Diameter OD 1/4" 3/8" 1/2" 5/8" 3/4" 7/8" 1-1/8" 1-3/8" REDUCING RESS Diameter OD 3/8" × 1/4" 1/2" × 3/8" 5/8" × 1/4" 5/8" × 1/2" 3/4" × 5/8" 7/8" × 1/2" 7/8" × 3/4" 1-1/8" × 1/2"		0.2 X 0.08 0.24 0.25 0.24 0.24 0.24 0.24 0.24 0.25 0.24	Wgt. 0.03 0.05 0.09 0.13 0.15 0.19 0.27 0.36 Wgt. 0.06 0.07 0.08 0.12 0.13 0.14 0.16 0.18 0.22	Inner	Item No. Diameter OD RP01947 1/4* RP01948 3/8* RP01949 1/2* RP01950 5/8* RP01951 3/4* RP01955 1-1/8*

NU.	Diameter OD		~		wy.	IIIIGI
4000	3/8"		0.39	0.39	0.10	5
4001	1/2"		0.47	0.47	0.19	5
4006	5/8"		0.55	0.55	0.27	2
4017	3/4"		0.59	0.59	0.36	2
4031	7/8"		0.67	0.67	0.49	2
4048	1-1/8"		0.79	0.79	0.65	1
4068	1-3/8"		0.96	0.96	0.85	1
						3
RE SS x FLR	-					
SS x FLR	Diameter OD	X		13	Wgt.	Inner
SS x FLR	Diameter OD	1.46		13 5"-20	Wgt. 0.07	Inner 5
SS x FLR	Diameter OD		7/16			Inner
SS x FLR No. 5725	Diameter OD	1.46	7/16 5/8	5"-20	0.07	Inner 5
SS x FLR No. 5725 5726	Diameter OD 1/4" 3/8"	1.46 1.57 1.57 1.61	7/16 5/8 3/4	6"-20 "-18	0.07 0.13	Inner 5 5 5 5 2
No. 5725 5726 5727	Diameter OD 1/4* 3/8* 1/2*	1.46 1.57 1.57	7/16 5/8 3/4 7/8	5"-20 "-18 "-16	0.07 0.13 0.22	Inner 5 5 5 5

Х

ltem No.	Diameter OD	Х	Wgt.	Inner	
RP03005	1/4"	0.28	0.04	5	
RP03012	3/8"	0.35	0.06	5	
RP03021	1/2"	0.37	0.10	5	
RP03026	5/8"	0.43	0.16	3	
RP03030	3/4"	0.55	0.20	3	
RP03034	7/8"	0.55	0.26	3	
RP03044	1-1/8"	0.63	0.36	2	
RP03050	1-3/8"	0.79	0.48	2	

TOP

Item No.	Diameter OD	х	Wgt.	Inner
RP01947	1/4"	3.94	0.05	5
RP01948	3/8"	4.13	0.09	5
RP01949	1/2"	4.33	0.15	5
RP01950	5/8"	4.53	0.22	5
RP01951	3/4"	4.53	0.25	2
RP01952	7/8"	4.72	0.31	2
RP01955	1-1/8"	5.12	0.42	2
RP01956	1-3/8"	5.51	0.58	2

