



USC University of Southern California

List of Approved Backflow Prevention Assemblies

10 June 2016

Supersedes All Prior Lists

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Foundation for Cross-Connection Control and Hydraulic Research

a Division of the University of Southern California

ADDITIONS:

Double Check Valve Assemblies

Reduced Pressure Principle Assemblies

Double Check Detector Assemblies

Reduced Pressure Principle Detector Assembly

Type	Manufacturer	Model	Size	Orientation(s)	Approved
RPDA	Apollo/Conbraco	RPDALF4AN	2 1/2	VUVD	12-May-2016
RPDA	Apollo/Conbraco	RPDALF4AN	2 1/2	VUVU	12-May-2016
RPDA	Apollo/Conbraco	RPDALF4AN	3	VUVD	12-May-2016
RPDA	Apollo/Conbraco	RPDALF4AN	3	VUVU	12-May-2016

Double Check Detector Assemblies-Type II

Reduced Pressure Principle Detector Assemblies-Type II

Spill Resistant Pressure Vacuum Breakers

Notices

NOTICE REGARDING RENEWALS:

The original Certificate of Approval—identified by the Edition of the Manual and the Approved date shown in this list—is valid as of the date of this list, only if the original or renewal date shown hereon is within three (3) years of the date of this list. The responsibility to request a renewal of an Approval is that of each manufacturer. The USC Foundation retains the right of determining the extent of re-evaluation required before renewal is granted. Certificates of Approval are not recalled for the purpose of updating the effective date. This revision of date is only published via the current List of Approved Backflow Prevention Assemblies.

NOTICE REGARDING INSTALLATION:

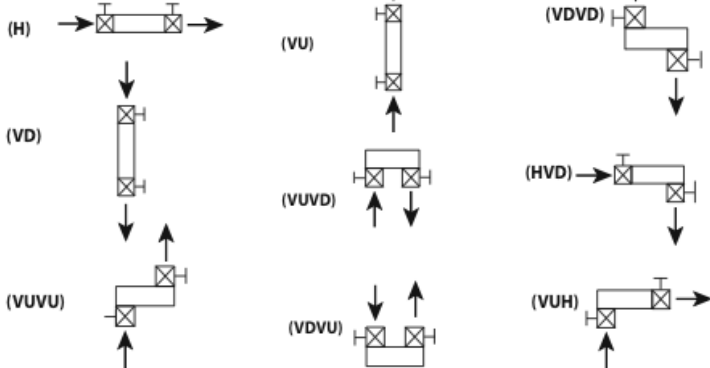
Unless otherwise specified by the manufacturer all assemblies are to be installed on cold potable water applications - below 110oF. Also all of the assemblies listed are Approved for the INDICATED ORIENTATION(S) ONLY (Please see the legend page 6). Rotation of assemblies on either axis will invalidate the USC Foundation's Approval. Use of spare parts other than those of the original manufacturer invalidates the Approval. Rotation of shutoff valves of one bolt hole only is permitted only for the 2 1/2" and larger flanged assemblies.

NOTICE REGARDING LEAD CONTENT:

In order to determine if backflow preventers comply with lead-free requirements of several states and the Safe Drinking Water Act, USC Foundation Approved assemblies which comply with the $\leq 0.25\%$ lead requirement are indicated by a Y in the column $\leq 0.25\%Pb$.

NOTICE REGARDING LIST UPDATES

DC, DCDA, RP, RPDA



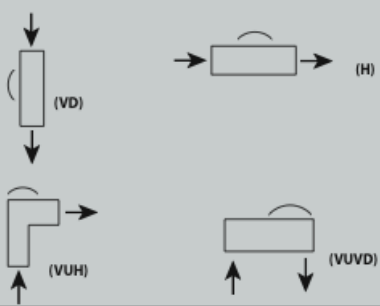
Key (H) Horizontal (D) Down
 (V) Vertical (U) Up

Shutoff Valve

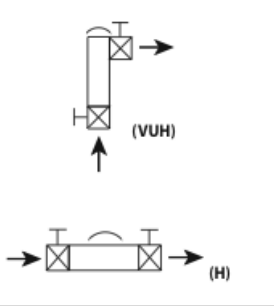
Air inlet Valve

Direction of Flow

AVB



PVB/SVB



Sample

Inlet- Vertical flowing down
 Outlet- Vertical flowing up

Shutoff Valve Designations

The backflow prevention assemblies shown on this list have been evaluated with a specific set of shutoff valves as an integral part of the assembly. The specific shutoff valves are coded by a parenthetic code shown with each assembly. This coding of shutoff valves is defined below. Other shutoff valves having similar performance characteristics which permit the assembly to comply with the standards are also shown immediately after the original shutoff valves. The use of any shutoff valve on a specific assembly, other than those listed for that specific assembly invalidates the Approval. Assemblies listed with a Y in the "spare parts only" column may not include the shutoff valve designation.

(aa)	American Figure 1-QT
(bb)	American Figure 17-NRS RW
(cc)	American Figure 370OSY RW
(dd)	Apollo Series 7B-QT
(ee)	AVK Series 25-NRS
(ff)	AVK Series 25-OSY (Nibco F607RW OSY)
(gg)	Clow R/W Model 2640 (FxF) - NRS (formerly Clow R/W F6102-NRS)
(hh)	Clow R/W Model 2640 (FxF) - OSY (formerly Clow R/W F6136-OSY)
(ii)	Fortune Series 620/623 (C84400 Bronze) (Formerly Figure 601) Private labeled as: Ames, Buckner, Febco, Flomatic, Hersey and Wilkins
(jj)	Kennedy Ken Seal I-NRS
(kk)	Kennedy Ken Seal-OSY
(ll)	Kennedy Model KS-FW Figure 8561 (FxF) - NRS (2 1/2" - 10") Kennedy Model KS-RW Figure 7561 (FxF) - NRS (4" - 10") (formerly Kennedy Ken Seal II-NRS)
(mm)	Kennedy Model KS-FW Figure 8068 (FxF) - OSY (2 1/2" - 10") Kennedy Model KS-RW Figure 7068 (FxF) - OSY (4" - 10") (formerly Kennedy Ken Seal II-OSY)
(nn)	Lee Brass-QT
(oo)	Watts Model 405 (2-1/2" - 10" NRS-RW FxF)
(pp)	Watts Model 408 (2-1/2" - 10" OSY-RW FxF)
(qq)	Mueller R/W HP NRS
(rr)	Mueller R/W HP OSY
(ss)	Toro, Orion Integral Ball Valve-QT
(tt)	American Flow Control (Waterous) Series 500-NRS
(uu)	American Flow Control (Waterous Series 500-OSY
(vv)	Watts Model FBV & FBV-E (1/4" - 2" Ball Valve QT) Ames Model FBV & FBV-E (1/4" - 2" Ball Valve QT)
(ww)	Watts Moel G4000-FDA (2-1/2" -10" Ball Valve FxF)
(xx)	Watts Model 6080 & 6080-E (1/4" - 2" Ball Valve QT)
(yy)	Matco-Norca 10RW (NRS)
(zz)	Matco-Norca 105U (OSY)
(aaa)	American Flow Control Series 2500-NRS
(bbb)	American Flow Control Series 2500-OSY
(ccc)	M&H Model 4067-02 (NRS)
(ddd)	M&H Model 4068-02(OSY)
(eee)	Stockham Model G-610 (OSY)
(fff)	Febco Series 620 QT
(ggg)	Fortune Figure 620U-QT
(hhh)	Watts Model S-FBV & S-FBV-E (1/4" - 1" Ball Valve QT)
(iii)	Mueller Model A2360-NRS
(int)	Shutoff Valve is integral part of assembly
(jjj)	Febco Series 621-QT
(kkk)	Febco Series 620U-QT
(lll)	Mueller Model R2360-OSY
(mmm)	Conbraco Series IBVE-125-QT
(nnn)	Kennedy Model KS-FW Figure 8701 (FxF) - NRS (3" - 10") Post Indicator/Tapping Kennedy Model KS-RW Figure 7701 (FxF) - NRS (4" - 10") Post Indicator/Tapping (formerly Kennedy Ken Seal II Post Indicator/Tapping)
(ooo)	Ningbo Ball Valves (Febco 622F & 622FT, Watts Series 855-QT & Wilkins Series 850-QT)(1/4" - 2" Ball Valve QT)
(ppp)	Clow R/W Model 2639 (GxF) - NRS (2 1/2" - 3") Clow R/W Model 2638 (GxF) - NRS (4" - 10") (formerly Clow Series F6105-NRS)
(qqq)	Clow R/W Model 2639 (GxF) - OSY (2 1/2" - 3") Clow R/W Model 2638 (GxF) - OSY (4" - 10") (formerly Clow Series F6138-OSY)
(rrr)	Apollo Series 7B-308-01 (& 7B-308-31)
(sss)	Clow R/W Model 2639 (GxG) - NRS (2 1/2" - 3") Clow R/W Model 2638 (GxFG) - NRS (4" - 10") (formerly Clow Series F6104-NRS)
(ttt)	Clow R/W Model 2639 (GxG) - OSY (2 1/2" - 3") Clow R/W Model 2638 (GxFG) - OSY (4" - 10") (formerly Clow Series F6137-OSY)
(uuu)	Apollo Series 7H-QT
(vvv)	Clow R/W Model 2640 (FxF) - OSY Post Indicator/Tapping Valve (formerly Clow R/W F6136-OSY Post Indicator/Tapping Valve)
(www)	Clow R/W Model 2639 (GxF) - OSY (2 1/2" - 3") Post Indicator/Tapping Valve Clow R/W Model 2640 (GxF) - OSY (4" - 10") Post Indicator/Tapping Valve (formerly Clow R/W F6138-OSY Post Indicator/Tapping Valve)
(xxx)	Ningbo Union Ball Valves (Febco 622UF & 622UFT & Wilkins 850U-QT)(1/2" - 2" Ball Valve QT)
(yyy)	Victaulic Series 702 (Butterfly valves)
(zzz)	Kennedy Model KS-RW Figure 7092ABF (FxF) - OSY (formerly Kennedy Series 7092ABF-OSY)
(aaaa)	Union Model GV12 (flange by groove)-OSY
(bbbb)	Enbee Model GV12 (flange by groove)-OSY
(cccc)	Kennedy Model KS-RW Figure 7092 (FxF) - OSY (formerly Kennedy Series 7092 (GxF) - OSY)
(dddd)	Kennedy Model KS-RW Figure 7592 (FxF) - NRS (formerly Kennedy Series 7592ABF - NRS)
(eeee)	Kennedy Model KS-RW Figure 7592PABF (FxF) - NRS Post Indicator/Tapping Valve (formerly Kennedy Series 7592PABF-Post Indicator/Tapping Valve)
(ffff)	Watts Model 409 (2-1/2" - 10" OSY-RW FxF)
(gggg)	Watts Model 409 (2-1/2" - 10" OSY-RW FxG)
(hhhh)	Watts Model LF-FBV & LF-FBV-E (1/4" - 2" Ball Valve QT) Ames Model LF-FBV & LF-FBV-E (1/4" - 2" Ball Valve QT) Febco Model LF-FBV & LF-FBV-E (1/4" - 2" Ball Valve QT)
(iiii)	Wilkins Series 850XL (850TXL) - QT
(jjjj)	WATTS Model 409 (2" OSY-RW NPTxNPT)
(kkkk)	Kennedy Model KS-RW Figure 7093 (GxG) - OSY
(llll)	Kennedy Model KS-RW Figure 7593 (GxG) - NRS
(mmmm)	Kennedy Model KS-RW Figure 7093ABF (GxG) - OSY
(nnnn)	Kennedy Model KS-RW Figure 7593ABF (GxG) - NRS

(oooo)	Kennedy Model KS-RW Figure 7593PABF (GxG) - NRS Post Indicator
(pppp)	Watts Model L-FBV & L-FBV-E (1/4" - 2" Ball Valve QT)
	Ames Model L-FBV & L-FBV-E (1/4" - 2" Ball Valve QT)
	Febco Model L-FBV & L-FBV-E (1/4" - 2" Ball Valve QT)
(qqqq)	Kennedy Figure G300E - Butterfly Valve (4",6")
(rrrr)	Kennedy Figure 02G - Butterfly Valve (8")
(ssss)	Wilkins Model 48 (GXF) - NRS (2-1/2" - 12")
(tttt)	Wilkins Model 48 (FXF) - NRS (2-1/2" - 12")
(uuuu)	Wilkins Model 48 (GXG) - NRS (2-1/2" - 12") Post Indicator/Tapping Valve
(vvvv)	Wilkins Model 48 (GXF) - NRS (2-1/2" - 12") Post Indicator/Tapping Valve
(wwww)	Wilkins Model 48 (FXF) - NRS (2-1/2" - 12") Post Indicator/Tapping Valve
(xxxx)	Wilkins Model 48 (GXG) - OSY (2-1/2" - 12")
(yyyy)	Wilkins Model 48 (GXF) - OSY (2-1/2" - 12")
(zzzz)	Wilkins Model 48 (FXF) - OSY (2-1/2" - 12")
(aaaaa)	Wilkins Model 48 (GXG) - NRS (2-1/2" - 12")
(bbbbb)	Milwaukee BB-SC100 - Butterfly Valve
(ccccc)	Milwaukee BB-SCS02 - Butterfly Valve (with gearbox)
(ddddd)	Flomatic Model NRS
(eeee)	Watts Model FBV-FP & FBV-E-FP (3/4" - 2" Ball Valve w/Gearbox)
	Ames Model LFAFBV-FP & LFAFBV-E-FP (3/4" - 2" Ball Valve w/Gearbox)
(ffff)	Watts Model L-FBV-QT (2-1/2" - 4" Ball Valve NPTxG)
(ggggg)	Wilkins Model 850MSS
(hhhhh)	Fortune Series 620/623 (c89520 unleaded bronze)
(iiii)	Apollo Series 77B-100 and 77C-100 - QT
(jjjj)	Apollo Series 77BLF-100 and 77CLF-100 - QT
(kkkkk)	Wilkins Model 49 (GXF) - (2 1/2" - 10")
(llll)	Wilkins Model 49 (GXG) - (2 1/2" - 10")
(mmmm)	Wilkins 850UXL (850TUXL) -QT
(nnnnn)	Watts Model 405 (2 1/2" - 10" NRS-RW FxG)
(ooooo)	ARI HC260 and HC262 Ball Valves - QT
(ppppp)	Febco Model LF622UF & LF622UFT (1/2" - 2" Ball Valve QT)
(qqqqq)	Febco Model LF622F & LF622FT (1/2" - 2" Ball Valve QT)
(rrrrr)	Watts Model LFFBV-FRG & LFFBV-E-FRG (1/2" - 2" Ball Valve QT)
(sssss)	Apollo Series 91B and 91C-QT (1/2 - 2")
(ttttt)	Apollo Series 91BLF and 91CLF-QT (1/2 - 2")
(uuuuu)	Apollo Model 77B-LFU and 77C-LFU Union Ball Valves - QT (1/2")
(vvvvv)	Apollo Series 91BLF-U and 91CLF-U-QT (3/4"-2")
(wwwww)	Apollo Series 91B-U and 91C-U-QT (3/4"-2")
(xxxxx)	Apollo Model GV (FXG) - NRS (2-1/2" - 10")
(yyyyy)	Apollo Model GV (GXG) - NRS (2-1/2" - 10")
(zzzzz)	Apollo Model GV (FXG) - OSY (2-1/2" - 10")
(aaaaa)	Apollo Model GV (GXG) - OSY (2-1/2" - 10")
(bbbbb)	Apollo Model GV (FXF) - NRS (2-1/2" - 10")
(ccccc)	Apollo Model GV (FXF) - OSY (2-1/2" - 10")

Detector Assembly Meters

The Double Check Detector Assemblies (DCDA) and Reduced Pressure Principle Detector Assemblies (RPDA) contained herein have been evaluated with a specific meter as the detector element of the assembly. That specific meter is coded by a parenthetic letter shown in the "meters" column. The coding of meters is shown in this Section. Other meters having similar performance characteristics to permit the assembly to meet the Specifications are shown immediately after the original evaluation meter. The use of any other meter or modified bypass piping invalidates the Approval.

Some of the DCDA's and RPDA's utilize a line-size assembly, which is not a standard or stock Approved assembly. Increased loads are required in these line-size units to allow the assembly to accurately record low flow rates in the bypass meter. Therefore, various 'off the shelf' components can not be assembled and expected to perform satisfactorily. The bypass backflow preventer Approved with the detector assembly is listed under the "bypass" column. This is only for verification purposes. Should replacement parts or a complete by-pass be needed the model number of the complete detector assembly should be used in ordering these components.

- A Hersey Model F-F 5/8" x 3/4"
- B Carlon 5/8" x 3/4"
- C Dandé Model D-3 5/8" x 3/4"
- D Gamon-Calmet 5/8"
- E Hays Acumeter 5/8" x 3/4"
- F Arad 5/8" x 3/4" (Master Meter)
- G Schlumberger 5/8" x 3/4" Model MBRF
- H Rockwell (Sensus) SR-II 5/8" x 3/4"
- I Hersey Model 430 - 5/8"
- J Elster AMCO Model C700 5/8"x3/4" (Formerly Kent, ABB)
- K Precision 5/8"
- L Neptune Trident 8 5/8"
- M Neptune T-10 5/8"(Lead free compliant version identified with NSF61 mark on meter)
- N Badger Model 25 3/4"
- O Badger 5/8" x 3/4" Model 25 (Lead free compliant version identified with NSF61 mark on meter)
- P Hersey Model 430 Series II 5/8"
- Q Hersey Model MVR-30 3/4"
- R Neptune T-10 1"
- S Neptune T-10 1 1/2"

Manufacturers of Approved Backflow Prevention Assemblies

Ames Fire & Waterworks - A Watts Water Technologies Company
<http://www.amesfirewater.com/>
1427 N. Market Blvd., Ste. 9
Sacramento, CA 95834
(916) 928-0123

Apollo/Conbraco Industries, Inc.
<http://www.apollovalves.com/>
P. O. Box 247
Matthews, NC 28105
(704) 847-9191

A.R.I. FLOW CONTROL ACCESSORIES
<http://www.arivalves.com>
Kibbutz Kfar Charuv
M.P. South Golan
ISRAEL, 12932
972-4-6761800 or 972-4-6761988

Arrowhead Brass
<http://www.arrowheadbrass.com/>
5147 Alhambra Ave.
Los Angeles, CA 90032
(323) 343-9790

Cash Acme
<http://www.cashacme.com>
2400 7th Avenue S.W.
Cullman, Alabama 35055
(256) 775-8200

Cla-Val Company
<http://www.cla-val.com/>
P. O. Box 1325
Newport Beach, CA 92659-0325
(949) 722-4800

Backflow Direct
www.backflowdirect.com
3290 Monier Circle, Ste. 300
Rancho Cordova, CA 95742
(916) 760-4524

FEBCO - A Watts Water Technologies Company
<http://www.febcoonline.com>
P. O. Box 8070
Fresno, CA 93747
(559) 252-0791

Flomatic
<http://www.flomatic.com/>
15 Pruyn's Island Dr.
Glen Falls, NY 12801-4424
(800) 833-2040

Hersey Meters
<http://www.herseymeters.com/>
10210 Statesville Blvd.
Cleveland, NC 27013
(800) 323-8584

Watts - A Watts Water Technologies Company
<http://www.wattsreg.com/>
815 Chestnut Street
North Andover, MA 01845
(978) 688-1811

Wilkins Regulator Company
<http://www.zurn.com/operations/wilkins/pages/home.asp>
1747 Commerce Way
Paso Robles, CA 93446
(800) 817-8177

Type	Manufacturer	Model	Size	Orientation(s)	Approved	Renewed	<0.25% Pb	Manual	Shutoffs	Spare Parts	Bypass
DC	Watts	774	#	H	#####	#####	N	8	(tt,ee,ff,gg,hh,pp,uu,ccc,ddd	N	
DC	Watts	774	#	H	#####	#####	Y	8	ll,mm,oo,ffff,gggg	N	
DC	Watts	774	#	H	#####	#####	N	8	(tt,ee,ff,gg,hh,pp,uu,ccc,ddd	N	
DC	Watts	774	#	H	#####	#####	Y	8	ll,mm,oo,ffff,gggg	N	
DC	Watts	774	##	VU	#####	#####	N	9	pp,	N	
DC	Watts	774	##	VU	#####	#####	Y	9	(ll,mm,oo	N	
DC	Watts	774X	####	H	#####	#####	N	8	(mm),ee,ff,gg,hh,ll,oo,pp,tt,uu,ccc,ddd,ffff,gggg	N	
DC	Watts	774X	#	H	#####	#####	N	8	tt,ee,ff,gg,hh,ll,mm,oo,pp,uu,ccc,ddd,ffff,gggg	Y	
DC	Watts	774X	#	H	#####	#####	N	8	(tt,ee,ff,gg,hh,ll,mm,oo,pp,uu,ccc,ddd,ffff,gggg	N	
DC	Watts	775QT	1/2	H	#####	#####	N	9	int	Y	
DC	Watts	775QT	1/2	VU	#####	#####	N	9	int	Y	
DC	Watts	775QT	3/4	H	#####	#####	N	9	int	Y	
DC	Watts	775QT	3/4	VU	#####	#####	N	9	int	Y	
DC	Watts	775QT	#	H	#####	#####	N	9	int	Y	
DC	Watts	775QT	#	VU	#####	#####	N	9	int	Y	
DC	Watts	775QT	###	H	#####	#####	N	9	int	Y	
DC	Watts	775QT	###	VU	#####	#####	N	9	int	Y	
DC	Watts	775QT	###	H	#####	#####	N	9	int	Y	
DC	Watts	775QT	###	VU	#####	#####	N	9	int	Y	
DC	Watts	775QT	#	H	#####	#####	N	9	int	Y	
DC	Watts	775QT	#	VU	#####	#####	N	9	int	Y	
DC	Watts	LF007	###	H	#####	#####	Y	9	(oo)	N	
DC	Watts	LF007	#	H	#####	#####	Y	9	(oo)	N	
DC	Watts	LF007M1PCQT	#	H	#####	#####	Y	9	(hhhh),rrrr	N	
DC	Watts	LF007M1PCQT	#	VU	#####	#####	Y	9	(hhhh),rrrr	N	
DC	Watts	LF007M1PCQT	#	H	#####	#####	Y	9	(hhhh),rrrr	N	
DC	Watts	LF007M1PCQT	#	VU	#####	#####	Y	9	(hhhh),rrrr	N	
DC	Watts	LF007M1QT	#	H	#####	#####	Y	9	(hhhh),rrrr	N	
DC	Watts	LF007M1QT	#	VU	#####	#####	Y	9	(hhhh),rrrr	N	
DC	Watts	LF007M1QT	#	H	#####	#####	Y	9	(hhhh),rrrr	N	
DC	Watts	LF007M1QT	#	VU	#####	#####	Y	9	(hhhh),rrrr	N	
DC	Watts	LF007M2QT	###	H	#####	#####	Y	8	(hhhh),rrrr	N	
DC	Watts	LF007M2QT	###	VU	#####	#####	Y	8	(hhhh),rrrr	N	
DC	Watts	LF007M2QT	###	H	#####	#####	Y	8	(hhhh),rrrr	N	
DC	Watts	LF007M2QT	###	VU	#####	#####	Y	8	(hhhh),rrrr	N	
DC	Watts	LF007M3PCQT	3/4	H	#####	#####	Y	9	(hhhh),rrrr	N	
DC	Watts	LF007M3PCQT	3/4	VU	#####	#####	Y	9	(hhhh),rrrr	N	
DC	Watts	LF007M3QT	3/4	H	#####	#####	Y	9	(hhhh),rrrr	N	
DC	Watts	LF007M3QT	3/4	VU	#####	#####	Y	9	(hhhh),rrrr	N	
DC	Watts	LF007PCQT	1/2	H	#####	#####	Y	9	(hhhh),rrrr	N	
DC	Watts	LF007PCQT	1/2	VU	#####	#####	Y	9	(hhhh),rrrr	N	
DC	Watts	LF007QT	1/2	H	#####	#####	Y	9	(hhhh),rrrr	N	
DC	Watts	LF007QT	1/2	VU	#####	#####	Y	9	(hhhh),rrrr	N	
DC	Watts	LF709	###	H	#####	#####	Y	9	(ll,mm,oo,pp,zzz,cccc,dddd,eeee,ffff,gggg,nnnnn	N	
DC	Watts	LF709	#	H	#####	#####	Y	9	(ll,mm,oo,pp,zzz,cccc,dddd,eeee,ffff,gggg,nnnnn	N	
DC	Watts	LF709	#	H	#####	#####	Y	9	(ll,mm,oo,pp,zzz,cccc,dddd,eeee,ffff,gggg,nnnnn	N	
DC	Watts	LF709	#	VU	#####	#####	Y	9	(ll,mm,oo,pp,zzz,cccc,dddd,eeee,ffff,gggg,nnnnn	N	
DC	Watts	LF709	#	H	#####	#####	Y	9	(ll,mm,oo,pp,zzz,cccc,dddd,eeee,ffff,gggg,nnnnn	N	
DC	Watts	LF709	#	VU	#####	#####	Y	9	(ll,mm,oo,pp,zzz,cccc,dddd,eeee,ffff,gggg,nnnnn	N	
DC	Watts	LF709	#	H	#####	#####	Y	9	(ll,mm,oo,pp,zzz,cccc,dddd,eeee,ffff,gggg,nnnnn	N	
DC	Watts	LF709	#	VU	#####	#####	Y	9	(ll,mm,oo,pp,zzz,cccc,dddd,eeee,ffff,gggg,nnnnn	N	
DC	Watts	LF709	##	H	#####	#####	Y	9	(ll,mm,oo,pp,zzz,cccc,dddd,eeee,ffff,gggg,nnnnn	N	
DC	Watts	LF709	##	VU	#####	#####	Y	9	(ll,mm,oo,pp,zzz,cccc,dddd,eeee,ffff,gggg,nnnnn	N	
DC	Watts	LF719AQT	#	VUVU	#####	#####	N	9	(vv),xx,ooo,pppp,rrrr	N	
DC	Watts	LF719AQT	#	VUVU	#####	#####	Y	9	hhhh,rrrr	N	
DC	Watts	LF719AQT	###	VUVU	#####	#####	N	9	(vv),xx,ooo,pppp,rrrr	N	
DC	Watts	LF719AQT	###	VUVU	#####	#####	Y	9	hhhh,rrrr	N	
DC	Watts	LF719AQT	###	VUVU	#####	#####	N	9	(vv),xx,ooo,pppp,rrrr	N	
DC	Watts	LF719AQT	###	VUVU	#####	#####	Y	9	hhhh,rrrr	N	
DC	Watts	LF719AQT	#	VUVU	#####	#####	N	9	(vv),xx,ooo,pppp,rrrr	N	
DC	Watts	LF719AQT	#	VUVU	#####	#####	Y	9	hhhh,rrrr	N	
DC	Watts	LF719QT	1/2	H	#####	#####	Y	9	(hhhh)	N	
DC	Watts	LF719QT	1/2	VD	#####	#####	Y	9	(hhhh)	N	
DC	Watts	LF719QT	1/2	VU	#####	#####	Y	9	(hhhh)	N	
DC	Watts	LF719QT	3/4	H	#####	#####	Y	9	(hhhh)	N	
DC	Watts	LF719QT	3/4	VD	#####	#####	Y	9	(hhhh)	N	
DC	Watts	LF719QT	3/4	VU	#####	#####	Y	9	(hhhh)	N	
DC	Watts	LF719QT	#	H	#####	#####	N	9	(vv),xx,ooo,pppp,rrrr	N	
DC	Watts	LF719QT	#	VD	#####	#####	Y	9	hhhh,rrrr	N	
DC	Watts	LF719QT	#	VD	#####	#####	N	9	(vv),xx,ooo,pppp,rrrr	N	
DC	Watts	LF719QT	#	VD	#####	#####	Y	9	hhhh,rrrr	N	
DC	Watts	LF719QT	#	VU	#####	#####	N	9	(vv),xx,ooo,pppp,rrrr	N	
DC	Watts	LF719QT	#	VU	#####	#####	Y	9	hhhh,rrrr	N	
DC	Watts	LF719QT	###	H	#####	#####	N	9	(vv),xx,ooo,pppp,rrrr	N	
DC	Watts	LF719QT	###	VD	#####	#####	Y	9	hhhh,rrrr	N	
DC	Watts	LF719QT	###	VD	#####	#####	N	9	(vv),xx,ooo,pppp,rrrr	N	
DC	Watts	LF719QT	###	VD	#####	#####	Y	9	hhhh,rrrr	N	
DC	Watts	LF719QT	###	VU	#####	#####	N	9	(vv),xx,ooo,pppp,rrrr	N	
DC	Watts	LF719QT	###	VU	#####	#####	Y	9	hhhh,rrrr	N	
DC	Watts	LF719QT	#	H	#####	#####	N	9	(vv),xx,ooo,pppp,rrrr	N	
DC	Watts	LF719QT	#	H	#####	#####	Y	9	hhhh,rrrr	N	
DC	Watts	LF719QT	#	VD	#####	#####	N	9	(vv),xx,ooo,pppp,rrrr	N	
DC	Watts	LF719QT	#	VD	#####	#####	Y	9	hhhh,rrrr	N	
DC	Watts	LF719QT	#	VU	#####	#####	N	9	(vv),xx,ooo,pppp,rrrr	N	
DC	Watts	LF719QT	#	VU	#####	#####	Y	9	hhhh,rrrr	N	
DC	Watts	LFU719QT	###	H	#####	#####	N	9	(vv),xx,ooo,pppp	N	
DC	Watts	LFU719QT	###	H	#####	#####	Y	9	hhhh	N	
DC	Watts	LFU719QT	#	VD	#####	#####	N	9	(vv),xx,ooo,pppp	N	
DC	Watts	LFU719QT	#	VD	#####	#####	Y	9	hhhh	N	
DC	Watts	LFU719QT	#	VU	#####	#####	N	9	(vv),xx,ooo,pppp	N	
DC	Watts	LFU719QT	#	VU	#####	#####	Y	9	hhhh	N	
DC	Watts	LFU719QT	###	H	#####	#####	N	9	(vv),xx,ooo,pppp	N	
DC	Watts	LFU719QT	###	VD	#####	#####	Y	9	hhhh	N	
DC	Watts	LFU719QT	###	VD	#####	#####	N	9	(vv),xx,ooo,pppp	N	
DC	Watts	LFU719QT	###	VD	#####	#####	Y	9	hhhh	N	
DC	Watts	LFU719QT	###	VU	#####	#####	N	9	(vv),xx,ooo,pppp	N	
DC	Watts	LFU719QT	###	VU	#####	#####	Y	9	hhhh	N	
DC	Watts	LFU719QT	#	H	#####	#####	N	9	(vv),xx,ooo,pppp	N	
DC	Watts	LFU719QT	#	H	#####	#####	Y	9	hhhh	N	
DC	Watts	LFU719QT	#	VD	#####	#####	N	9	(vv),xx,ooo,pppp	N	
DC	Watts	LFU719QT	#	VD	#####	#####	Y	9	hhhh	N	
DC	Watts	LFU719QT	#	VU	#####	#####	N	9	(vv),xx,ooo,pppp	N	
DC	Watts	LFU719QT	#	VU	#####	#####	Y	9	hhhh	N	
DC	Watts	LFU719QT	#	H	#####	#####	N	9	(vv),xx,ooo,pppp	N	
DC	Watts	LFU719QT	#	H	#####	#####	Y	9	hhhh	N	
DC	Watts	LFU719QT	#	VD	#####	#####	N	9	(vv),xx,ooo,pppp	N	
DC	Watts	LFU719QT	#	VD	#####	#####	Y	9	hhhh	N	
DC	Watts	LFU719QT	#	VU	#####	#####	N	9	(vv),xx,ooo,pppp	N	
DC	Watts	LFU719QT	#	VU	#####	#####	Y	9	hhhh	N	
DC	Watts	SS007M1QT	#	H	#####	#####	Y	9	(hhh)	N	
DC	Watts	SS007M1QT	#	VU	#####	#####	Y	9	(hhh)	N	
DC	Watts	SS007M3QT	1/2	H	#####	#####	Y	9	(hhh)	N	
DC	Watts	SS007M3QT	1/2	VU	#####	#####	Y	9	(hhh)	N	

Type	Manufacturer	Model	Size	Orientation(s)	Approved	Renewed	50, 25% Pb	Manual	Shutoffs	Spare Parts	Bypass
RP	Apollo/Conbra	4020402	3/4	H	#####	#####	N	8	dd	Y	
RP	Apollo/Conbra	40204A2	3/4	H	#####	#####	N	8	dd	Y	
RP	Apollo/Conbra	40204A2S	3/4								
RP	Apollo/Conbra	40204A2U	3/4								
RP	Apollo/Conbra	40204A2Z	3/4								
RP	Apollo/Conbra	40204T2	3/4								
RP	Apollo/Conbra	40204TC2	3/4								
RP	Apollo/Conbra	40204TCU	3/4	VUVU	#####	#####	N	8	(dd)	Y	
RP	Apollo/Conbra	4020502	#	H	#####	#####	N	8	dd	Y	
RP	Apollo/Conbra	402059T	#								
RP	Apollo/Conbra	40205A3	#	H	#####	#####	N	8	dd	Y	
RP	Apollo/Conbra	40205A2S	#								
RP	Apollo/Conbra	40205A2U	#								
RP	Apollo/Conbra	40205A2Z	#								
RP	Apollo/Conbra	40205T2	#								
RP	Apollo/Conbra	40205T2S	#	H	#####	#####	N	8	(uuu)	N	
RP	Apollo/Conbra	40205T2U	#	VUVU	#####	#####	N	8	(dd)	N	
RP	Apollo/Conbra	40205T2Z	#	VUVU	#####	#####	N	8	(dd)	N	
RP	Apollo/Conbra	40205TC2	#								
RP	Apollo/Conbra	40205TCU	#	VUVU	#####	#####	N	8	(dd)	Y	
RP	Apollo/Conbra	4020602	###	H	#####	#####	N	8	dd	Y	
RP	Apollo/Conbra	402069T	###								
RP	Apollo/Conbra	40206A3	###	H	#####	#####	N	8	dd	Y	
RP	Apollo/Conbra	40206A2U	###								
RP	Apollo/Conbra	40206A2Z	###								
RP	Apollo/Conbra	40206T2	###								
RP	Apollo/Conbra	40206T2U	###								
RP	Apollo/Conbra	40206T2Z	###								
RP	Apollo/Conbra	4020702	###	H	#####	#####	N	8	dd	Y	
RP	Apollo/Conbra	4020799T	###								
RP	Apollo/Conbra	40207A2	###	H	#####	#####	N	8	dd	Y	
RP	Apollo/Conbra	40207A2U	###								
RP	Apollo/Conbra	40207A2Z	###								
RP	Apollo/Conbra	40207T2	###								
RP	Apollo/Conbra	40207T2U	###								
RP	Apollo/Conbra	40207T2Z	###								
RP	Apollo/Conbra	4020802	#	H	#####	#####	N	8	dd	Y	
RP	Apollo/Conbra	4020899T	#								
RP	Apollo/Conbra	40208A2	#	H	#####	#####	N	8	dd	Y	
RP	Apollo/Conbra	40208A2U	#								
RP	Apollo/Conbra	40208A4	#	H	#####	#####	N	8	rrr	Y	
RP	Apollo/Conbra	40208AZ2	#								
RP	Apollo/Conbra	40208T2	#								
RP	Apollo/Conbra	40208T2U	#								
RP	Apollo/Conbra	40208T2Z	#								
RP	Apollo/Conbra	4020902	###								
RP	Apollo/Conbra	4020903	###								
RP	Apollo/Conbra	4020905	###								
RP	Apollo/Conbra	4020A02	#								
RP	Apollo/Conbra	4020A03	#								
RP	Apollo/Conbra	4020A05	#								
RP	Apollo/Conbra	4020C02	#								
RP	Apollo/Conbra	4020C03	#								
RP	Apollo/Conbra	4020C05	#								
RP	Apollo/Conbra	4020E02	#								
RP	Apollo/Conbra	4020E03	#								
RP	Apollo/Conbra	4020G03	###								
RP	Apollo/Conbra	4020G03	###								
RP	Apollo/Conbra	4D-200	###	H	#####	#####	N	9	(yyv), cccc, dddd	Y	
RP	Apollo/Conbra	4D-200	#	H	#####	#####	N	9	(yyy), cccc, dddd	Y	
RP	Apollo/Conbra	4D-200	#	H	#####	#####	N	9	(yyv), cccc, dddd	Y	
RP	Apollo/Conbra	4D-200U	###	VUVU	#####	#####	N	9	(yyy), cccc, dddd	Y	
RP	Apollo/Conbra	4D-200U	#	VUVU	#####	#####	N	9	(yyy), cccc, dddd	Y	
RP	Apollo/Conbra	4D-200U	#	VUVU	#####	#####	N	9	(yyv), cccc, dddd	Y	
RP	Apollo/Conbra	RP40	1/4	H	#####	#####	N	8	(dd)	Y	
RP	Apollo/Conbra	RP40	3/8	H	#####	#####	N	8	(dd)	Y	
RP	Apollo/Conbra	RP40	1/2	H	#####	#####	N	8	(dd)	Y	
RP	Apollo/Conbra	RP40	3/4	H	#####	#####	N	8	(dd)	Y	
RP	Apollo/Conbra	RP40	#	H	#####	#####	N	8	(dd)	Y	
RP	Apollo/Conbra	RP40	###	H	#####	#####	N	8	(dd)	Y	
RP	Apollo/Conbra	RP40	###	H	#####	#####	N	8	(dd)	Y	
RP	Apollo/Conbra	RP40	#	H	#####	#####	N	8	(dd)	Y	
RP	Apollo/Conbra	RP40	###	H	#####	#####	N	8	(tt), bb, cc, ee, ll, mm, uu, mmm	Y	
RP	Apollo/Conbra	RP40	#	H	#####	#####	N	8	(tt), bb, cc, ee, ll, mm, uu, mmm	Y	
RP	Apollo/Conbra	RP40	#	H	#####	#####	N	8	(tt), bb, cc, ee, ll, mm, uu, mmm	Y	
RP	Apollo/Conbra	RP40	#	H	#####	#####	N	8	(tt), bb, ee, ll	Y	
RP	Apollo/Conbra	RP40	#	H	#####	#####	N	8	(tt), bb, cc, ee, ll, mm, uu	Y	
RP	Apollo/Conbra	RP40	#	H	#####	#####	N	8	(tt), bb, cc, ee, ll, mm, uu	Y	
RP	Apollo/Conbra	RP40N	3/4	VUVU	#####	#####	N	8	(dd)	Y	
RP	Apollo/Conbra	RP40N	###	VUVU	#####	#####	N	8	(dd)	Y	
RP	Apollo/Conbra	RP40U	###	VUVU	#####	#####	N	8	(dd)	Y	
RP	Apollo/Conbra	RP40U	#	VUVU	#####	#####	N	8	(dd)	Y	
RP	Apollo/Conbra	RP40Z	3/4	VUVU	#####	#####	N	8	(dd)	Y	
RP	Apollo/Conbra	RP40Z	###	VUVU	#####	#####	N	8	(dd)	Y	
RP	Apollo/Conbra	RP40Z	#	VUVU	#####	#####	N	8	(dd)	Y	
RP	Apollo/Conbra	RP4A	1/2	H	#####	#####	N	9	(iiii), sssss	N	
RP	Apollo/Conbra	RP4A	3/4	H	#####	#####	N	9	(iiii), sssss, wwww	N	
RP	Apollo/Conbra	RP4A	#	H	#####	#####	N	9	(iiii), sssss, wwww	N	
RP	Apollo/Conbra	RP4A	###	H	#####	#####	N	9	(iiii), sssss, wwww	N	
RP	Apollo/Conbra	RP4A	###	H	#####	#####	N	9	(iiii), sssss, wwww	N	
RP	Apollo/Conbra	RP4A	###	H	#####	#####	N	9	(iiii), sssss, wwww	N	
RP	Apollo/Conbra	RPLF40	1/2	H	#####	#####	N	9	(jjjj)	Y	
RP	Apollo/Conbra	RPLF40	###	H	#####	#####	N	9	(jjjj)	Y	
RP	Apollo/Conbra	RPLF40	###	H	#####	#####	N	9	(jjjj)	Y	
RP	Apollo/Conbra	RPLF40	#	H	#####	#####	N	9	(jjjj)	Y	
RP	Apollo/Conbra	RPLF40	#	H	#####	#####	N	9	(jjjj)	Y	
RP	Apollo/Conbra	RPLF4A	1/2	H	#####	#####	N	9	(jjjj), tttt, uuuuu	N	
RP	Apollo/Conbra	RPLF4A	3/4	H	#####	#####	N	9	(jjjj), tttt, vvvvv	N	
RP	Apollo/Conbra	RPLF4A	#	H	#####	#####	N	9	(jjjj), tttt, vvvvv	N	
RP	Apollo/Conbra	RPLF4A	###	H	#####	#####	N	9	(jjjj), tttt, vvvvv	N	
RP	Apollo/Conbra	RPLF4A	###	H	#####	#####	N	9	(jjjj), tttt, vvvvv	N	
RP	Apollo/Conbra	RPLF4A	#	H	#####	#####	N	9	(jjjj), tttt, vvvvv	N	
RP	Apollo/Conbra	RPLF4A	###	H	#####	#####	N	10	(yyy), cccc, dddd, mmmm, nnnn, xxxxx, yyyyy, zzzzz, aaaaaa	N	
RP	Apollo/Conbra	RPLF4A	#	H	#####	#####	N	10	(yyy), cccc, dddd, mmmm, nnnn, xxxxx, yyyyy, zzzzz, aaaaaa	N	
RP	Apollo/Conbra	RPLF4A	#	H	#####	#####	N	10	(yyy), cccc, dddd, mmmm, nnnn, xxxxx, yyyyy, zzzzz, aaaaaa	N	
RP	Apollo/Conbra	RPLF4A	###	H	#####	#####	N	10	(yyy), cccc, dddd, mmmm, nnnn, xxxxx, yyyyy, zzzzz, aaaaaa	N	
RP	Apollo/Conbra	RPLF4AN	###	VUVU	#####	#####	N	10	(yyy), cccc, dddd, mmmm, nnnn, xxxxx, yyyyy, zzzzz, aaaaaa	N	
RP	Apollo/Conbra	RPLF4AN	###	VUVU	#####	#####	N	10	(yyy), cccc, dddd, mmmm, nnnn, xxxxx, yyyyy, zzzzz, aaaaaa	N	
RP	Apollo/Conbra	RPLF4AN	#	VUVU	#####	#####	N	10	(yyy), cccc, dddd, mmmm, nnnn, xxxxx, yyyyy, zzzzz, aaaaaa	N	
RP	Apollo/Conbra	RPLF4AN	#	VUVU	#####	#####	N	10	(yyy), cccc, dddd, mmmm, nnnn, xxxxx, yyyyy, zzzzz, aaaaaa	N	
RP	Apollo/Conbra	RPLF4AR	###	H	#####	#####	N	10	(ccc), dddd, mmmm, nnnn, xxxxx, yyyyy, zzzzz, aaaaaa	N	
RP	Apollo/Conbra	RPLF4AR	#	H	#####	#####	N	10	(ccc), dddd, mmmm, nnnn, xxxxx, yyyyy, zzzzz, aaaaaa	N	
RP	Apollo/Conbra	RPLF4AR	#	H	#####	#####	N	10	(ccc), dddd, mmmm, nnnn, xxxxx, yyyyy, zzzzz, aaaaaa	N	
RP	Apollo/Conbra	RPLF4AR	#	H	#####	#####	N	10	(ccc), dddd, mmmm, nnnn, xxxxx, yyyyy, zzzzz, aaaaaa	N	
RP	Apollo/Conbra	RPS40	1/4	H	#####	#####	N	8	(uuu)	N	
RP	Apollo/Conbra	RPS40	3/8	H	#####	#####	N	8	(uuu)	N	
RP	Apollo/Conbra	RPS40	1/2	H	#####	#####	N	8	(dd)	N	
RP	Apollo/Conbra	RPS40	3/4	H	#####	#####	N	8	(uuu)	N	
RP	ARI	RP 500	1/2	H	#####	#####	N	9	(oooo), ii, ooo	N	
RP	ARI	RP 500	1/2	H	#####	#####	N	9	(oooo)	N	
RP	ARI	RP 500	3/4	H	#####	#####	N	9	(ii), ooo, ooooo	N	
RP	ARI	RP 500	3/4	H	#####	#####	N	9	(oooo)	N	
RP	ARI	RP 500	#	H	#####	#####	N	9	(ii), ooo, ooooo	N	
RP	ARI	RP 500	#	H	#####	#####	N	9	(oooo)	N	

Type	Manufacturer	Model	Size	Orientation(s)	Approved	Renewed	50,25% Pb	Manual	Shutoffs	Spare Parts	Bypass
RP	Watts	009QT	1/2	H	#####	#####	N	9	(vv).xx.ooo.hhhh.pppp.rrrrr	N	
RP	Watts	009QT	3/4	H	#####	#####	N	7	(vv).xx.ooo.hhhh.pppp.rrrrr	N	
RP	Watts	009QT	#	H	#####	#####	N	7	vv.xx.ooo.hhhh.pppp.rrrrr	Y	
RP	Watts	009QT	###H	H	#####	#####	N	7	vv.xx.ooo.hhhh.pppp.rrrrr	Y	
RP	Watts	009QT	###H	H	#####	#####	N	7	vv.xx.ooo.hhhh.pppp.rrrrr	Y	
RP	Watts	009QT	#	H	#####	#####	N	7	vv.xx.ooo.hhhh.pppp.rrrrr	Y	
RP	Watts	009SSM1PCQT	#	H	#####	#####	N	8	vv.xx.pppp	Y	
RP	Watts	009SSM1QT	#	H	#####	#####	N	8	vv.xx.pppp	Y	
RP	Watts	009SSPCQT	3/4	H	#####	#####	N	8	vv.xx.pppp	Y	
RP	Watts	009SSPCQT	#	H	#####	#####	N	8	vv.xx.pppp	Y	
RP	Watts	009SSPCQT	###H	H	#####	#####	N	8	vv.xx.pppp	Y	
RP	Watts	009SSPCQT	###H	H	#####	#####	N	8	vv.xx.pppp	Y	
RP	Watts	009SSPCQT	#	H	#####	#####	N	8	vv.xx.pppp	Y	
RP	Watts	009SSQQT	3/4	H	#####	#####	N	7	vv.xx.pppp	Y	
RP	Watts	009SSQQT	#	H	#####	#####	N	7	vv.xx.pppp	Y	
RP	Watts	009SSQQT	###H	H	#####	#####	N	7	vv.xx.pppp	Y	
RP	Watts	009SSQQT	###H	H	#####	#####	N	7	vv.xx.pppp	Y	
RP	Watts	909	###H	H	#####	#####	N	7	(oo).gg.hh.ll.mm.pp.tt.uu.vv.yy.fff.gggg	N	
RP	Watts	909	#	H	#####	#####	N	7	(oo).gg.hh.ll.mm.pp.tt.uu.vv.yy.fff.gggg	N	
RP	Watts	909	#	H	#####	#####	N	6	(oo).gg.hh.ll.mm.pp.tt.uu.vv.yy.fff.gggg	N	
RP	Watts	909	#	H	#####	#####	N	6	(oo).gg.hh.ll.mm.pp.tt.uu.vv.yy.fff.gggg	N	
RP	Watts	909	#	H	#####	#####	N	6		Y	
RP	Watts	909BB	###H	H	#####	#####	N	6	(oo).gg.hh.ll.mm.pp.tt.uu.vv.yy.fff.gggg	N	
RP	Watts	909BB	#	H	#####	#####	N	6	(oo).gg.hh.ll.mm.pp.tt.uu.vv.yy.fff.gggg	N	
RP	Watts	909HWQT	3/4	H	#####	#####	N	5	(vv).xx.ooo.hhhh.pppp.rrrrr	N	
RP	Watts	909HWQT	#	H	#####	#####	N	5	(vv).xx.ooo.hhhh.pppp.rrrrr	N	
RP	Watts	909HWQT	###H								
RP	Watts	909HWQT	#								
RP	Watts	909M1	#	H	#####	#####	N	8	(oo).gg.hh.ll.mm.pp.tt.uu.vv.yy.fff.gggg	N	
RP	Watts	909M1	#	H	#####	#####	N	8	(oo).gg.hh.ll.mm.pp.tt.uu.vv.yy.fff.gggg	N	
RP	Watts	909M1HWQT	###H	H	#####	#####	N	5	(vv).xx.ooo.hhhh.pppp.rrrrr	N	
RP	Watts	909M1HWQT	###H	H	#####	#####	N	5	(vv).xx.ooo.hhhh.pppp.rrrrr	N	
RP	Watts	909M1HWQT	#	H	#####	#####	N	5	(vv).xx.ooo.hhhh.pppp.rrrrr	N	
RP	Watts	909M1PCHWQ	###H	H	#####	#####	N	8	(vv).xx.ooo.hhhh.pppp.rrrrr	N	
RP	Watts	909M1PCHWQ	###H	H	#####	#####	N	8	(vv).xx.ooo.hhhh.pppp.rrrrr	N	
RP	Watts	909M1PCHWQ	#	H	#####	#####	N	8	(vv).xx.ooo.hhhh.pppp.rrrrr	N	
RP	Watts	909M1QT	###H	H	#####	#####	N	6	(vv).xx.ooo.hhhh.pppp.rrrrr	N	
RP	Watts	909M1QT	###H	H	#####	#####	N	6	(vv).xx.ooo.hhhh.pppp.rrrrr	N	
RP	Watts	909M1QT	#	H	#####	#####	N	6	(vv).xx.ooo.hhhh.pppp.rrrrr	N	
RP	Watts	909NRS	#								
RP	Watts	909NRS	#								
RP	Watts	909NRS	#								
RP	Watts	909NRS	#								
RP	Watts	909NRSRW	#								
RP	Watts	909NRSRW	#								
RP	Watts	909NRSRW	#								
RP	Watts	909NRSRW	#								
RP	Watts	909NRSRW	#								
RP	Watts	909OSY	#								
RP	Watts	909OSY	#								
RP	Watts	909OSY	#								
RP	Watts	909OSY	#								
RP	Watts	909OSYRW	#								
RP	Watts	909OSYRW	#								
RP	Watts	909OSYRW	#								
RP	Watts	909OSYRW	#								
RP	Watts	909OSYRW	#								
RP	Watts	909PCHWQT	3/4	H	#####	#####	N	8	(vv).xx.ooo.hhhh.pppp.rrrrr	N	
RP	Watts	909PCHWQT	#	H	#####	#####	N	8	(vv).xx.ooo.hhhh.pppp.rrrrr	N	
RP	Watts	909PCM1QT	###H	H	#####	#####	N	8	(vv).xx.ooo.hhhh.pppp.rrrrr	N	
RP	Watts	909PCM1QT	###H	H	#####	#####	N	8	(vv).xx.ooo.hhhh.pppp.rrrrr	N	
RP	Watts	909PCM1QT	#	H	#####	#####	N	8	(vv).xx.ooo.hhhh.pppp.rrrrr	N	
RP	Watts	909PCQT	3/4	H	#####	#####	N	9	(vv).xx.ooo.hhhh.pppp.rrrrr	N	
RP	Watts	909PCQT	3/4	VU	#####	#####	N	9	(vv).xx.ooo.hhhh.pppp.rrrrr	N	
RP	Watts	909PCQT	#	H	#####	#####	N	9	(vv).xx.ooo.hhhh.pppp.rrrrr	N	
RP	Watts	909PCQT	#	VU	#####	#####	N	9	(vv).xx.ooo.hhhh.pppp.rrrrr	N	
RP	Watts	909QT	3/4	H	#####	#####	N	9	(vv).xx.ooo.hhhh.pppp.rrrrr	N	
RP	Watts	909QT	3/4	VU	#####	#####	N	9	(vv).xx.ooo.hhhh.pppp.rrrrr	N	
RP	Watts	909QT	#	H	#####	#####	N	9	(vv).xx.ooo.hhhh.pppp.rrrrr	N	
RP	Watts	909QT	#	VU	#####	#####	N	9	(vv).xx.ooo.hhhh.pppp.rrrrr	N	
RP	Watts	909QT	###H								
RP	Watts	909QT	###H								
RP	Watts	909QT	#								
RP	Watts	909RW	#								
RP	Watts	909RW	#								
RP	Watts	909RW	#								
RP	Watts	909RW	#								
RP	Watts	909RW	#								
RP	Watts	919AQT	3/4	VUV	#####	#####	N	9	(vv).xx.ooo.hhhh.pppp.rrrrr	N	
RP	Watts	919AQT	#	VUV	#####	#####	N	9	(vv).xx.ooo.hhhh.pppp.rrrrr	N	
RP	Watts	919AQT	###H	VUV	#####	#####	N	9	(vv).xx.ooo.hhhh.pppp.rrrrr	N	
RP	Watts	919AQT	###H	VUV	#####	#####	N	9	(vv).xx.ooo.hhhh.pppp.rrrrr	N	
RP	Watts	919AQT	#	VUV	#####	#####	N	9	(vv).xx.ooo.hhhh.pppp.rrrrr	N	
RP	Watts	919QT	3/4	H	#####	#####	N	9	(vv).xx.ooo.hhhh.pppp.rrrrr	N	
RP	Watts	919QT	3/4	VD	#####	#####	N	9	(vv).xx.ooo.hhhh.pppp.rrrrr	N	
RP	Watts	919QT	#	H	#####	#####	N	9	(vv).xx.ooo.hhhh.pppp.rrrrr	N	
RP	Watts	919QT	#	VD	#####	#####	N	9	(vv).xx.ooo.hhhh.pppp.rrrrr	N	
RP	Watts	919QT	###H	YD	#####	#####	N	9	(vv).xx.ooo.hhhh.pppp.rrrrr	N	
RP	Watts	919QT	###H	H	#####	#####	N	9	(vv).xx.ooo.hhhh.pppp.rrrrr	N	
RP	Watts	919QT	###H	VD	#####	#####	N	9	(vv).xx.ooo.hhhh.pppp.rrrrr	N	
RP	Watts	919QT	#	H	#####	#####	N	9	(vv).xx.ooo.hhhh.pppp.rrrrr	N	
RP	Watts	919QT	#	VD	#####	#####	N	9	(vv).xx.ooo.hhhh.pppp.rrrrr	N	
RP	Watts	919ZQT	3/4	VUV	#####	#####	N	9	(vv).xx.ooo.hhhh.pppp.rrrrr	N	
RP	Watts	919ZQT	#	VUV	#####	#####	N	9	(vv).xx.ooo.hhhh.pppp.rrrrr	N	
RP	Watts	919ZQT	###H	VUV	#####	#####	N	9	(vv).xx.ooo.hhhh.pppp.rrrrr	N	
RP	Watts	919ZQT	###H	VUV	#####	#####	N	9	(vv).xx.ooo.hhhh.pppp.rrrrr	N	
RP	Watts	919ZQT	#	VUV	#####	#####	N	9	(vv).xx.ooo.hhhh.pppp.rrrrr	N	
RP	Watts	957 BF	#	H	#####	#####	Y	9	(yyy)	N	
RP	Watts	957 BF	#	H	#####	#####	Y	9	(yyy)	N	
RP	Watts	957N	###H	VUV	#####	#####	Y	9	(ppp).ggg.aaa.bbbb.nnnnn	N	
RP	Watts	957N	###H	VUV	#####	#####	Y	9	yyy.zzz.dddd.eeee.gggg.kkkk.lll.mmmm.nnnn	N	
RP	Watts	957N	#	VUV	#####	#####	Y	9	(ppp).ggg.aaa.bbbb.nnnnn	N	
RP	Watts	957N	#	VUV	#####	#####	Y	9	yyy.zzz.dddd.eeee.gggg.kkkk.lll.mmmm.nnnn	N	
RP	Watts	957N	#	VUV	#####	#####	Y	9	yyy.zzz.dddd.eeee.gggg.kkkk.lll.mmmm.nnnn	N	
RP	Watts	957N	#	VUV	#####	#####	Y	9	ppp.ggg.aaa.bbbb.nnnnn	N	
RP	Watts	957N	#	VUV	#####	#####	Y	9	zzz.dddd.eeee.gggg.kkkk.lll.mmmm.nnnn	N	
RP	Watts	957N	#	VUV	#####	#####	Y	9	(yyy).zzz.dddd.eeee.gggg.kkkk.lll.mmmm.nnnn	N	
RP	Watts	957NQT	###H	VUV	#####	#####	Y	9	(ffff)	N	
RP	Watts	957NQT	#	VUV	#####	#####	Y	9	(ffff)	N	
RP	Watts	957NQT	#	VUV	#####	#####	Y	9	(ffff)	N	
RP	Watts	957QT	###H	H	#####	#####	Y	9	(ffff)	N	
RP	Watts	957QT	#	H	#####	#####	Y	9	(ffff)	N	
RP	Watts	957QT	#	H	#####	#####	Y	9	(ffff)	N	
RP	Watts	957Z	###H	VUV	#####	#####	N	9	(ppp).ggg.aaa.bbbb.nnnnn	N	
RP	Watts	957Z	###H	VUV	#####	#####	Y	9	yyy.zzz.dddd.eeee.gggg.kkkk.lll.mmmm.nnnn	N	
RP	Watts	957Z	#	VUV	#####	#####	N	9	(ppp).ggg.aaa.bbbb.nnnnn	N	
RP	Watts	957Z	#	VUV	#####	#####	Y	9	yyy.zzz.dddd.eeee.gggg.kkkk.lll.mmmm.nnnn	N	

Type	Manufacturer	Model	Size	Orientation(s)	Approved	Renewed	50,25% Pb	Manual	Shutoffs	Spare Parts	Bypass
RP	Watts	957Z	#	VUVI	#####	#####	N	9	(ppp)qgg,aaaa,bbbb,nnnn	N	
RP	Watts	957Z	#	VUVI	#####	#####	Y	9	yyy.zzz,ddd,eeee,ggg,kkk,lll,mmm,nnn	N	
RP	Watts	957Z	#	VUVI	#####	#####	N	9	ppp,qqq,aaaa,bbbb	N	
RP	Watts	957Z	#	VUVI	#####	#####	Y	9	(yyy).zzz,ddd,eeee,ggg,kkk,lll,mmm,nnn	N	
RP	Watts	957ZQT	###	VUVI	#####	#####	Y	9	(ffff)	N	
RP	Watts	957ZQT	#	VUVI	#####	#####	Y	9	(ffff)	N	
RP	Watts	957ZQT	#	VUVI	#####	#####	Y	9	(ffff)	N	
RP	Watts	967N	###	VUVI	#####	#####	N	9	(ppp)qgg,yyy,zzz,aaaa,bbbb,ddd,eeee,ggg,kkk,lll,mmm,nnn,nnnn	N	
RP	Watts	967N	#	VUVI	#####	#####	N	9	(ppp)qgg,zzz,aaaa,bbbb,ddd,eeee,fff,ggg,kkk,lll,mmm,nnn,nnnn	N	
RP	Watts	967N	#	VUVI	#####	#####	N	9	ppp,qqq,aaaa,bbbb,nnnn	N	
RP	Watts	967N	#	VUVI	#####	#####	N	9	yyy,zzz,ddd,eeee,ggg,kkk,lll,mmm,nnn	N	
RP	Watts	967N	#	VUVI	#####	#####	N	9	ppp,qqq,aaaa,bbbb	N	
RP	Watts	967N	#	VUVI	#####	#####	Y	9	(yyy).zzz,ddd,eeee,ggg,kkk,lll,mmm,nnn	N	
RP	Watts	967Z	###	VUVI	#####	#####	N	9	(ppp)qgg,yyy,zzz,aaaa,bbbb,ddd,eeee,ggg,kkk,lll,mmm,nnn,nnnn	N	
RP	Watts	967Z	#	VUVI	#####	#####	N	9	(ppp)qgg,zzz,aaaa,bbbb,ddd,eeee,ggg,kkk,lll,mmm,nnn,nnnn	N	
RP	Watts	967Z	#	VUVI	#####	#####	N	9	ppp,qqq,aaaa,bbbb	N	
RP	Watts	967Z	#	VUVI	#####	#####	Y	9	(yyy).zzz,ddd,eeee,ggg,kkk,lll,mmm,nnn	N	
RP	Watts	990	#	H	#####	#####	N	8	oo,gg,hh,pp,tt,uu,yy	Y	
RP	Watts	990	#	H	#####	#####	N	8	oo,gg,hh,pp,tt,uu,yy	Y	
RP	Watts	990QTFDA	#	H	#####	#####	N	8	ww	Y	
RP	Watts	990QTFDA	#	H	#####	#####	N	8	ww	Y	
RP	Watts	992	#	H	#####	#####	N	8	oo	Y	
RP	Watts	992	#	H	#####	#####	N	8	oo	Y	
RP	Watts	995QT	1/2	H	#####	#####	N	9	int	Y	
RP	Watts	995QT	3/4	H	#####	#####	N	9	int	Y	
RP	Watts	995QT	#	H	#####	#####	N	9	int	Y	
RP	Watts	995QT	###	H	#####	#####	N	9	int	Y	
RP	Watts	995QT	###	H	#####	#####	N	9	int	Y	
RP	Watts	FAE909HWQT	###	H	#####	#####	N	5	(vv).xx,ooo,hhhh,pppp	N	
RP	Watts	FAE909HWQT	###	H	#####	#####	N	5	(vv).xx,ooo,hhhh,pppp	N	
RP	Watts	FAE909HWQT	#	H	#####	#####	N	5	(vv).xx,ooo,hhhh,pppp	N	
RP	Watts	FAE909QT	###	H	#####	#####	N	6	(vv).xx,ooo,hhhh,pppp	N	
RP	Watts	FAE909QT	###	H	#####	#####	N	6	(vv).xx,ooo,hhhh,pppp	N	
RP	Watts	FAE909QT	#	H	#####	#####	N	6	(vv).xx,ooo,hhhh,pppp	N	
RP	Watts	LF009	###	H	#####	#####	Y	9	(oo)	N	
RP	Watts	LF009	#	H	#####	#####	Y	9	(oo)	N	
RP	Watts	LF009M2PCQT	#	H	#####	#####	Y	9	(hhhh),rrrr	N	
RP	Watts	LF009M2PCQT	#	H	#####	#####	Y	9	(hhhh),rrrr	N	
RP	Watts	LF009M2QT	#	H	#####	#####	Y	9	(hhhh),rrrr	N	
RP	Watts	LF009M2QT	###	H	#####	#####	Y	8	(hhhh),rrrr	N	
RP	Watts	LF009M2QT	###	H	#####	#####	Y	8	(hhhh),rrrr	N	
RP	Watts	LF009M2QT	#	H	#####	#####	Y	9	(hhhh),rrrr	N	
RP	Watts	LF009M3PCQT	3/4	H	#####	#####	Y	9	(hhhh),rrrr	N	
RP	Watts	LF009M3QT	3/4	H	#####	#####	Y	9	(hhhh),rrrr	N	
RP	Watts	LF009PCQT	1/2	H	#####	#####	Y	9	(hhhh),rrrr	N	
RP	Watts	LF009QT	1/2	H	#####	#####	Y	9	(hhhh),rrrr	N	
RP	Watts	LF909	###	H	#####	#####	Y	9	(ll).mm,oo,pp,zzz,cccc,ddd,eeee,fff,ggg,nnnn	N	
RP	Watts	LF909	###	H	#####	#####	Y	9	(ll).mm,oo,pp,zzz,cccc,ddd,eeee,fff,ggg,nnnn	N	
RP	Watts	LF909	#	H	#####	#####	Y	9	(ll).mm,oo,pp,zzz,cccc,ddd,eeee,fff,ggg,nnnn	N	
RP	Watts	LF909	#	H	#####	#####	Y	9	(ll).mm,oo,pp,zzz,cccc,ddd,eeee,fff,ggg,nnnn	N	
RP	Watts	LF909	#	H	#####	#####	Y	9	(ll).mm,oo,pp,zzz,cccc,ddd,eeee,fff,ggg,nnnn	N	
RP	Watts	LF909M1	#	H	#####	#####	Y	9	(ll).mm,oo,pp,zzz,cccc,ddd,eeee,fff,ggg,nnnn	N	
RP	Watts	LF909M1	#	H	#####	#####	Y	9	(ll).mm,oo,pp,zzz,cccc,ddd,eeee,fff,ggg,nnnn	N	
RP	Watts	LF909M1	##	H	#####	#####	Y	9	(ll).mm,oo,pp,zzz,cccc,ddd,eeee,fff,ggg,nnnn	N	
RP	Watts	LF909M1PCQT	###	H	#####	#####	N	9	(hhhh),rrrr	N	
RP	Watts	LF909M1PCQT	###	H	#####	#####	N	9	(hhhh),rrrr	N	
RP	Watts	LF909M1PCQT	#	H	#####	#####	N	9	(hhhh),rrrr	N	
RP	Watts	LF909M1QT	###	H	#####	#####	Y	9	(hhhh),rrrr	N	
RP	Watts	LF909M1QT	###	H	#####	#####	Y	9	(hhhh),rrrr	N	
RP	Watts	LF909M1QT	#	H	#####	#####	Y	9	(hhhh),rrrr	N	
RP	Watts	LF909PCQT	3/4	H	#####	#####	N	9	(hhhh),rrrr	N	
RP	Watts	LF909PCQT	3/4	VU	#####	#####	N	9	(hhhh),rrrr	N	
RP	Watts	LF909PCQT	#	H	#####	#####	N	9	(hhhh),rrrr	N	
RP	Watts	LF909PCQT	#	VU	#####	#####	N	9	(hhhh),rrrr	N	
RP	Watts	LF909QT	3/4	H	#####	#####	Y	9	(hhhh),rrrr	N	
RP	Watts	LF909QT	3/4	VU	#####	#####	Y	9	(hhhh),rrrr	N	
RP	Watts	LF909QT	#	H	#####	#####	Y	9	(hhhh),rrrr	N	
RP	Watts	LF909QT	#	VU	#####	#####	Y	9	(hhhh),rrrr	N	
RP	Watts	LF919AQT	3/4	VUVI	#####	#####	N	9	(vv).xx,ooo,pppp,rrrr	N	
RP	Watts	LF919AQT	3/4	VUVI	#####	#####	Y	9	(hhhh),rrrr	N	
RP	Watts	LF919AQT	#	VUVI	#####	#####	Y	9	(vv).xx,ooo,pppp,rrrr	N	
RP	Watts	LF919AQT	#	H	#####	#####	Y	9	(hhhh),rrrr	N	
RP	Watts	LF919AQT	###	VUVI	#####	#####	N	9	(vv).xx,ooo,pppp,rrrr	N	
RP	Watts	LF919AQT	###	VUVI	#####	#####	Y	9	(hhhh),rrrr	N	
RP	Watts	LF919AQT	###	VUVI	#####	#####	N	9	(vv).xx,ooo,pppp,rrrr	N	
RP	Watts	LF919AQT	###	VUVI	#####	#####	Y	9	(hhhh),rrrr	N	
RP	Watts	LF919AQT	#	VUVI	#####	#####	Y	9	(vv).xx,ooo,pppp,rrrr	N	
RP	Watts	LF919AQT	#	VUVI	#####	#####	Y	9	(hhhh),rrrr	N	
RP	Watts	LF919QT	3/4	H	#####	#####	N	9	(vv).xx,ooo,pppp,rrrr	N	
RP	Watts	LF919QT	3/4	H	#####	#####	Y	9	(hhhh),rrrr	N	
RP	Watts	LF919QT	3/4	VD	#####	#####	N	9	(vv).xx,ooo,pppp,rrrr	N	
RP	Watts	LF919QT	3/4	VD	#####	#####	Y	9	(hhhh),rrrr	N	
RP	Watts	LF919QT	#	H	#####	#####	N	9	(vv).xx,ooo,pppp,rrrr	N	
RP	Watts	LF919QT	#	H	#####	#####	Y	9	(hhhh),rrrr	N	
RP	Watts	LF919QT	#	VD	#####	#####	N	9	(vv).xx,ooo,pppp,rrrr	N	
RP	Watts	LF919QT	#	VD	#####	#####	Y	9	(hhhh),rrrr	N	
RP	Watts	LF919QT	###	H	#####	#####	N	9	(vv).xx,ooo,pppp,rrrr	N	
RP	Watts	LF919QT	###	H	#####	#####	Y	9	(hhhh),rrrr	N	
RP	Watts	LF919QT	###	VD	#####	#####	N	9	(vv).xx,ooo,pppp,rrrr	N	
RP	Watts	LF919QT	###	VD	#####	#####	Y	9	(hhhh),rrrr	N	
RP	Watts	LF919QT	###	H	#####	#####	N	9	(vv).xx,ooo,pppp,rrrr	N	
RP	Watts	LF919QT	###	H	#####	#####	Y	9	(hhhh),rrrr	N	
RP	Watts	LF919QT	###	VD	#####	#####	N	9	(vv).xx,ooo,pppp,rrrr	N	
RP	Watts	LF919QT	###	VD	#####	#####	Y	9	(hhhh),rrrr	N	
RP	Watts	LF919QT	#	H	#####	#####	N	9	(vv).xx,ooo,pppp	N	
RP	Watts	LF919QT	#	H	#####	#####	Y	9	hhhh	N	
RP	Watts	LF919QT	#	VD	#####	#####	N	9	(vv).xx,ooo,pppp	N	
RP	Watts	LF919QT	#	VD	#####	#####	Y	9	hhhh	N	
RP	Watts	LF919QT	###	H	#####	#####	N	9	(vv).xx,ooo,pppp	N	
RP	Watts	LF919QT	###	H	#####	#####	Y	9	hhhh	N	
RP	Watts	LF919QT	###	VD	#####	#####	N	9	(vv).xx,ooo,pppp	N	
RP	Watts	LF919QT	###	VD	#####	#####	Y	9	hhhh	N	
RP	Watts	LF919QT	#	H	#####	#####	N	9	(vv).xx,ooo,pppp	N	
RP	Watts	LF919QT	#	H	#####	#####	Y	9	hhhh	N	
RP	Watts	LF919QT	#	VD	#####	#####	N	9	(vv).xx,ooo,pppp	N	
RP	Watts	LF919QT	#	VD	#####	#####	Y	9	hhhh	N	
RP	Watts	LF919QT	###	H	#####	#####	N	9	(vv).xx,ooo,pppp	N	
RP	Watts	LF919QT	###	H	#####	#####	Y	9	hhhh	N	
RP	Watts	LF919QT	###	VD	#####	#####	N	9	(vv).xx,ooo,pppp	N	
RP	Watts	LF919QT	###	VD	#####	#####	Y	9	hhhh	N	
RP	Watts	LF919QT	#	H	#####	#####	N	9	(vv).xx,ooo,pppp	N	
RP	Watts	LF919QT	#	H	#####	#####	Y	9	hhhh	N	
RP	Watts	LF919QT	#	VD	#####	#####	N	9	(vv).xx,ooo,pppp	N	
RP	Watts	LF919QT	#	VD	#####	#####	Y	9	hhhh	N	

Special Notices

From time to time the Foundation issues Special Notices when specific information needs to be brought before the Members of the Foundation. A copy of the notices are sent to Foundation Members as they are published. Notices may also be found on the Internet at the World Wide Web address of <http://www.usc.edu/fccchr/notice.html>

Notices are summarized as follows.

Notice 96-001

This notice lists Ames assemblies which have been reported with low check valve readings. Corrections to the problem are discussed.

Notice 97-001

This Notice discusses changes in the Wilkins 975 8" and 10" reduced pressure principle assemblies. A change in the retaining cup in the relief valve stem.

Notice 97-002

This notice identifies Ames 2000SS, 3000SS, and 4000SS series assemblies were discovered to have unapproved components.

Notice 97-003

This notice lists assemblies which were NOT Approved by the Foundation, although advertisements may have implied otherwise.

Notice 98-001

This notice advises members of certain action in the Federal Register regarding cross-connection control programs.

Notice 98-002

This notice advises members of Wilkins 950 series and 975 series modifications.

Notice 99-001

This notice lists assemblies which were NOT Approved by the Foundation, although advertisements may have implied otherwise.

Notice 99-002

This notice lists assemblies which were NOT Approved by the Foundation, although advertisements may have implied otherwise.

Notice 99-003

This notice lists assemblies which were NOT Approved by the Foundation, although advertisements may have implied otherwise.

Notice 01-001

Discuss silicon parts in certain Febco relief valves

Notice 01-002/Revised Notice 01-002-R1

This notice discusses some check valves not approved in certain Ames and Watts assemblies

Notice 01-003

This notice lists assemblies which were NOT Approved by the Foundation, although advertisements may have implied otherwise.

Notice 02-001

This notice explains there are some specific Febco assemblies with unapproved check valve retainers.

Notice 03-001

This notice explains there are some improper markings of model designations on some Wilkins assemblies

Notice 03-002

This notice explains there is the possibility of the interference of the check valves on some Ames and Watts assemblies

Notice 04-001

This notice identifies some Febco 825YA assemblies sold with a dimensional variation

Notice 05-001

This Notice identifies some Ames and Watts assemblies sold with unapproved disc material.

Notice 06-001

This notice identifies unapproved guides found in certain Febco assemblies

Notice 06-002

This notice identifies a change in the design of the Flomatic PVBs

Notice 06-003

Notice regarding Cash-Acme Assemblies

Notice 07-001

Out of tolerance springs on Conbraco assemblies

Notice 09-001

Unapproved Third party components are being distributed

Notice 13-001

Modifications to guiding surfaces of the check valves on Wilkins Assemblies

Notice 14-001

Clarifies the Approval status of Apollo/Conbraco backflow prevention assemblies

Notice 14-002

Clarifies the method in which the model designation is indicated on the Wilkins 3/4" 950XLD and 975XLD assemblies

Notice 15-001

This notice has been prepared to review Special Notice 14-002 and clarify the USC Approval Status of Wilkins Reduced Pressure Principle Detector Assemblies (RPDAs).