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#### **VENTING ACCESSORY**



#### **POWER VENTER**

Combines the motor, blower and vent hood in one complete, easy to install unit that significantly reduces moto noise.

- Designed for walls up to 8" thick
- Use with oil or gas furnaces, boilers and water heaters
- SWG4G is the universal 4" model

#### When to Use:

- · New construction
- · When converting from electric to gas or oil
- To avoid relining a chimney
- · Must order control kit, not included
- · When installing an additional heating appliance
- When co-venting a water heater with a furnace



	Max Oil	Max	Max. Equiv. Ft. Vent Pipe Input		Vent	
Model	GPH	BTUH	Max	60 %	Size (In.)	
			-	23	3	
SWGII-4 HD	1.10	170,000	35	100	4	
			65	100	5	
			16	44	4	
SWGII-5	1.85	290,000	51	100	5	
			95	100	6	
			28	78	5	
SWG-6	2.65	416,000	68	100	6	
			100	100	7	

		Dimensions (In.)				
Part No.	Vent Diameter (In.)	Н	W	L	Price	
SWGII4HD	4	9 1/2	9	9	\$934.08	
SWG4G <sup>1</sup>	4	9 1/2	9	9	\$1,306.68	
SWG5	5	10 3/4	12 1/4	12	\$1,165.10	
SWG6	6	10 3/4	12 1/4	12	\$1,320.86	

<sup>&</sup>lt;sup>1</sup>Universal Generic 4"



#### **COMBUSTION AIR, DIRECT**

The Field combustion air system (CAS) provides controlled amounts of outside air for proper combustion of oil heating appliances.

#### When to use:

- Includes 4" intake air hood and vacuum relief valve
- Too tight construction
- · Provide source of fresh air for combustion
- · Use with appliances up to 2 GPH



Part No.	Use with	Price
CAS1	Beckett AFII Burner	\$144.58
CAS2B	Beckett AF, AFG Burner	\$302.40



#### **POWER VENTER CONTROL**

Control kit for use with SWG power venter.

Can also control draft inducers (Model DI) and combustion air systems (CAS 3 & 4).



Part No.	Use with	Includes	Price
CK20	30/750mV Gas, Water-Spa Heaters	Gas Pressure Switch, Safety, Fixed Post Purge	\$456.38
CK41F	24V Gas without Spillage Switch	Draft Proving Switch, Safety, Fixed Post Purge	\$446.26
<b>CK43</b> 24V Gas	24V Gas, Draft Induced	Draft Proving Switch, Draft Control, Fixed Post Purge	\$638.90
CK91 <sup>1</sup>	24V Gas, Draft Induced with 30mV Water Heater Co-Vent	Draft Proving Switch, Safety, Adj. Electronic Post Purge	\$973.80
CK92F1	Gas Fired with 30mV Water Heater Co-Vent	Draft Proving Switch, Safety, Fixed Post Purge	\$823.64

<sup>1</sup>Includes Gas Pressure Switch



#### **COMBUSTION AIR, INDIRECT**

Provides controlled amount of combustion air for oil or heat appliances.

For multiple appliances or where direct connection is not possible.

Each is designed for optimum safety and includes a proving device that won't allow the burner

to engage without incoming air flow. Multiple units or additional controls are required for multiple appliance instal lations. Includes intake air hood, fan assembly, restrictor plate, reducer.



Part No.	Use with	Max. Input	Price
CAS3	Any Oil Heating Appliance	2 GPH	\$904.30
CAS4	Any 24V Gas Heating Appliance	280,000 BTUH	\$904.30



#### **VENT HOOD**

Made of 24 gauge alum inized steel and can be used with natural gas, L.P. gas or fuel oil fired equipment The concentric pipe, angled outlet deflectors and spaced plate design allow for better heat dissipation.



Part No.	Use with	Price
SWH14	4" Vent Hood	\$318.90



#### **DRAFT INDUCER**

Use a draft inducer for:

- Long horizontal vent runs
- · Undersized flue pipe
- Short chimneys
- Outside exposed chimney
- Negative building pressures
   For venting a single appliance, a

draft inducer proving switch (DIP-1) is recommended. For multiple appliances, a control kit is required for operation. See selection guide below.

Part No.	Input Range	Price
DI1	69,000 to 136,000 BTUH	\$445.28
DI2	279,000 to 430,000 BTUH	\$595.88
DIP1	Proving Switch	\$270.88

GAS FIRING WITH DRAFT HOOD				
Input (BTU/Hr.)	Pipe Dia. (In.)	Draft Inducer Model	Static Pressure (in W.C.)	Flow (CFM)
		Model	0.000 000 COM COM (0.000)	0.000000000
69,000	3	DI-1	.04	47
105,000	4		.04	72
111,000	5		.06	75
120,000	6		.05	82
279,000	5		.06	190
308,000	6	DI-2	.07	210
330,000	7	DI-2	.11	225
353,000	8		.07	240

GAS FIRING WITH BAROMETRIC DRAFT CONTROL					
Input (BTU/Hr.)	Pipe Dia. (In.)	Draft Inducer Model	Static Pressure (in W.C.)	Flow (CFM)	
69,000	3		.05	36	
105,000	4	51.4	.05	55	
118,000	5	DI-1	.06	65	
123,000	6		.05	68	
300,000	5		.07	156	
340,000	6	DI-2	.08	176	
364,000	7	DI-Z	.09	189	
390,000	8		.06	200	

Input	Pipe Dia.	Draft Inducer	Static Pressure	Flow
(BTU/Hr.)	(ln.)	Model	(in W.C.)	(CFM)
72,000	3		.05	36
96,000	4	DI-1	.05	48
134,000	5	DI-1	.05	67
136,000	6		.04	68
312,000	5		.06	156
350,000	6	DI-2	.07	175
400,000	7	DI-Z	.08	200
430,000	8		.05	215



#### BAROMETRIC DRAFT CONTROL

Maintain consistent draft by counteracting the negative forces caused by changes in temperature and barometric pressure, and the effects of wind.

Use with oil or coal residential or commercial appliances

 Can use with pipe size within 1" of control size, designed for settings from .02" to .08"



Part No.	Control Diameter (In.)	Price
RC-5	5	\$82.48
RC6	6	\$88.44
RC7	7	\$108.78
RC8	8	\$150.60



## BAROMETRIC DRAFT CONTROL, GAS

A double-acting control for gas fire furnaces and boilers is widely used for conversion burner installations, gas draft-induced appliance operation with mechanical draft inducers or sidewall power venters, and forced draft burners greater than 30' stack height.

 Effectively use with pipe size within 1" of control diameter. Adjustments from .01" to .1"



Part No.	Control Diameter (In.)	Price
MG15	5	\$185.68
MG16	6	\$193.88

#### **CHIMNEY LINER**

Z-Flex's specially designed "deep corrugations" provide for greater flexibility and ease of installation Patented triple-lock mechanical joint.

10 year limited warranty.



#### STAINLESS STEEL KIT

- For pellet, oil and gas applications
- Includes: stainless steel liner, chimney flashing, rain cap, mortar collar, top support



Part No.	Tube Diameter (In.)	Tube Length	Price
201LKTX0625	6	25′	\$748.08
201LKTX0535	5	35′	\$920.84
201LKTX0635	6	35′	\$1,024.00

#### **CHIMNEY LINER**



#### **ALUMINUM KIT**

- · For gas applications
- Includes: 2-ply aluminum liner, chimney flashing, rain cap, mortar collar, 3 screws



Tube Diameter (In.)	Tube Diameter (In.) Tube Length	
3	25′	\$133.76
4	25′	\$133.76
5	25′	\$162.26
5 1/2	25′	\$196.36
6	25′	\$184.56
7	25′	\$292.68
3	30′	\$159.80
3	35′	\$174.66
4	35′	\$174.66
5	35′	\$196.96
5 1/2	35′	\$247.64
6	35′	\$236.58
7	35′	\$352.70
	3 4 5 5 1/2 6 7 3 3 4 5 5 1/2 6	3 25' 4 25' 5 25' 5 1/2 25' 6 25' 7 25' 3 30' 3 35' 4 35' 5 1/2 35' 6 35'



## B-VENT CONNECTOR, ALUMINUM

- · For gas applications
- Connects B-Vent to Z-Flex liner



Part No.	Tube Diameter (In.)	Price
2CNNBFC04	4	\$37.72
2CNNBFC05	5	\$37.32
2CNNBFC06	6	\$38.50



#### LINER COUPLING

- For gas applications
- Used to attach 2 lenghts of pipe



Part No.	Tube Diameter (In.)	Price
2CNNTRG04	4	\$7.48
2CNNTRG05	5	\$8.00



2GAEXT0610

#### LINER EXTENSION, ALUMINUM

Used to extend a Z-Flex aluminum liner kit an additional 10 feet.
Kit includes:10 foot section of 2 ply aluminum liner, 2 gear clamps, 1 liner coupling



Part No.	Tube Diameter (In.)	Tube Length	Price
2GAEXT0610	3	10′	\$75.88



#### **NOSE CONE**



Part No.	Tube Diameter (In.)	Price
2NCXXXX03	3	\$53.72
2NCXXXX04	4	\$55.34
2NCXXXX05	5	\$57.02
2NCXXXX05.5	5 1/2	\$57.80
2NCXXXX06	6	\$58.62
2NCXXXX07	7	\$92.54

#### **OIL STORAGE**



#### **FILL ALARM/TANK GAUGE**

Combination fill alarm and tank gauge. Nitrophyl (buna-N derivative) float i compatible with most standard petroleum/hydrocarbon compounds.



		Connection Size (In.)			
Part No.	Tank Appli- cation	Bottom MPT	Top FPT	Ship Wgt (Lbs.)	Price
OEM4523	Vertical	2	1 1/4	2.5	\$69.14
OEM4525	Vertical	2	1 1/2	2.5	\$67.80
OEM4526	Vertical	2	2	3.25	\$79.80
OEM4530	Horizontal	2	1 1/4	2.5	\$67.80



#### **TANK GAUGE**

For 26-27" horizontal tanks.



Part No.	Bushing Size (In.)	Ship Wgt (Lbs.)	Price
OEM4503	1 1/2 & 2	1.1	\$44.00



#### **DUPLEX BUSHING**

Duplex slip-thru tank bushing for basement, above ground and underground installation. Bottom tapped for solid stub or suction line guide. Compression fittings

Beckett

Part No.	Connection Size (In.)	Tube Diameter (In.)	Price
OEM4468	2	3/8	\$40.60
OEM4470	2	1/2	\$34.20



#### **FUSIBLE VALVE**

Fusible valves are designed to automatically close when acted upon by heat of 165° F and are primarily manufactured for oil burner installations. All Firomatic fusible valves can be operated manually and may be used where fire protectio is important.

PRODUCTS
Price

Part No.	Description	Valve Usage (Series)	Price
B-104-CFXL	Fusible Extra Long Angle	3/8 Flare x 1/4 MPT	\$47.40
100G	Non-fusible Globe	3/8 FPT	\$22.70

# OFM4164

#### **FILL BOX, MPT**

Use in kerosene drums and skid tanks. Locking hasp adds protection. Vented overlapping top keeps out moisture and water. Cast iron.

Part No.	Connection Size (In.)	Ship Wgt (Lbs.)	Price
OEM4164	2	1.25	\$29.60



#### **FILL BOX, HINGED**

Vented grey iron fill bo . Safe from interference when using the pad locking duck bill hasp feature. Overlapping cap keeps out moisture, dirt and water.



Part No. Connection Size (In.)		Ship Wgt (Lbs.)	Price
OEM4171	2	0.22	\$32.34



the vent pipe or tank.

## **MUSHROOM VENT CAP**

These very popular mushroom style vent caps are made from cast iron and then galvanized. Each vent cap has a 30-mesh bronze or stainless steel fin screen, securely fitted in the vent ca to prevent debris

from entering



Part No.	Connection Size (In.)	Price
OEM4023	1 1/4	\$18.20
OEM4024	1 1/2	\$22.20
OEM4025	2	\$38.86

#### OIL ACCESSORIES



#### THERMAL SWITCH

Mounts in a junction box in the elec trical supply line to the oil burner and provides a positive shutoff when temperature reaches the predetermined point (usually set at 165° F). Located in the immediate vicinity of the heater and usually

positioned on the ceiling in front of the heating unit.

Part No. Description		Price
TS300B	Switch, 4" Sq. Box Mount	\$32.94



#### **OIL FILTER SHELL**

Fuel filter for oil fired heating appliances.

• Working pressure: 12 psi • Connection size: 3/8" FPT



Part No.	Part No. Firing Rate (GPH)	
1A25B	10	\$48.14
2A700A	25	\$79.02

Use with

Fulflo B4, AS4, FB4

Purolator PF2002



Part No.

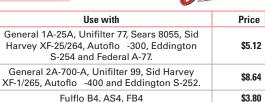
1A30

2A710

RF4

92

#### **OIL FILTER CARTRIDGE**





\$24.86

#### **OIL BURNER**



#### AIR TUBE, AF, AFG

Consult Beckett's cross-reference for proper application to specific model appliances.

## Beckett

Part No.	Tube Length	Burner Head	Firing Rate (GPH)	Price
AF44	4 1/2"	None	_	\$98.76
AF44XN	4 1/2"	F3	.75 to 1.25	\$120.44
AF53	5 3/8"	None	_	\$98.76
AF53XN	5 3/8"	F3	.75 to 1.25	\$120.44
AF65	6 5/8"	None	_	\$98.76
AF65XR	6 5/8"	F0	.40 to .75	\$120.44
AF65XN	6 5/8"	F3	.75 to 1.25	\$120.44
AF65XP	6 5/8"	F22	1.65 to 2.50	\$120.44
AF72	7 1/4"	None	_	\$98.76
AF72XN	7 1/4"	F3	.75 to 1.25	\$120.44
AF90	9″	None	_	\$98.76
AF90XN	9″	F3	.75 to 1.25	\$120.44
AF90XP	9″	F22	1.65 to 2.50	\$120.44
AF104	10 1/2"	None	_	\$133.86
AF104XN	10 1/2"	F3	.75 to 1.25	\$155.26
AF130XN	13"	F3	.75 to 1.25	\$155.26
AF130XP	13"	F22	1.65 to 2.50	\$155.26
AF160XN	16"	F3	.75 to 1.25	\$155.26

#### **AIR TUBE, AFG ONLY**



Part No.	Tube Length	Burner Head	Firing Rate (GPH)	Price
AFG50MD	5″	V1	.75 to 2.75	\$208.88
AFG70MD	7″	V1	.75 to 2.75	\$208.88
AFG90MD	9"	V1	75 to 2 75	\$218.96

## **PEDESTAL KIT**

5685

## Beckett

Beckett

Part No.	Description	
5685	Base Mount	\$25.92
5606	Extended Pedestal	\$90.70
5770	4 x 4 Mounting Box	\$11.72



#### **BURNER HEAD**

Burner heads used with AF, AFG, SF and SR air tubes.

Use B10 burner head with AFGMD air

Stainless steel heat shield; ceramic not included except where indicated Refer to cross reference for specific replacement applications

## Beckett

Part No.	Firing Rate (GPH)	Use with	Price
F0	.40 to .75	AF,AFG,SF,SR	\$21.66
F4H	.85 to 1.35	AF,AFG,SF,SR	\$21.66
F6	.85 to 1.65	AF,AFG,SF,SR	\$21.66
F12H	1.10 to 2.00	AF,AFG,SF,SR	\$21.66
F22H	1.65 to 2.50	AF,AFG,SF,SR	\$21.66
F31H	2.50 to 3.00	AF,AFG,SF,SR	\$25.80
B10L1	.40 to 1.00	AFG(M)	\$37.12
51615	.40 to .75	F0 requiring ceramic	\$47.98
51360	.75 to 1.25	F3 requiring ceramic	\$52.36

#### **OIL BURNER ACCESSORIES**



Part No.

A06SA6

A08SA1

A10LA22

A10S32

A10SV10

A10SV35

LJH90A

XDBK103

XDWN202

XDWN208

#### **IGNITION TRANSFORMER**

- Universal gas and oil burner replacement units
- Iron core and electronic models
- Epoxy filled industrial models available
- 6, 8.5, 10, 12 and 14 kV models

250 VA

Wayne M, MH OEM Replacement

Wayne E OEM Replacement



\$116.66

\$116.66

	NOZZLE INTERCHANGE CHART Spray Angles 30–90°		
Manufacturer	Model	Delavan Nozzle*	
Hago/Sid Harvey**	Н	A	
gc.cia.iia.ico	SS (up to 2.0)	SS	
	SS (over 2.0)	A or W	
	ES/P	B***	
	В	B***	
Monarch	NS/PL	A	
411-11-11-11-11	R/AR (up to 2.0)	R-D/AR-D	
	R/AR (over 2.0)	A/A or W	
	PLP	B***	
Danfoss	AS	W or B	
	AH	A	
Steinen	H/PH	A	
Otemen	S (.5-2.0) or Q	A or W	
	S/SS (2.25+)	B	
Aero Burner	F-AFC	80° W, A or B	
7.070 Buillet	HF-US	80° W, A or B	
	HF-AFC	80° W, A or B	
	SV-SSV	70° or 80° B	
R.W. Beckett	AF/AFG (F)		or B (100-150 PSI)
11.W. Deckett	AF/AFG (M)	60° or 70° A or B	STANCE AND IN DEPOSITE ADDRESS NAME OF THE PARTY.
	AFII (FB)		W or B (140-200 PSI)
	AFII (HLX)		W or B (140-200 PSI)
The Carlin Co.	99 FRD (Std.)	.5075 GPH	60°A
The Garini Co.	99 I ND (5td.)	.85-3.00 GPH	45°A, 60°A or B
	100 CRD (Std.)	.5075 GPH	60°A
	100 CND (Std.)	.85-2.25 GPH	45°A, 60°A or B
		.75-1.10 GPH	60°
	Elite EZ-1	.50-1.00 GPH	70°A
	Little LZ-1	.50-1.00 GFH	60° SS
		1.00-1.65 GPH	60° or 70°
	Elite (EZ-2, 3)	All flow rates	60° A, B or SS
Riello Burners	Mectron 3M,	60° W, B or Del-C	(2)
niello burllers	5M	(Up to .85 GPH)	7-FIO A
	F3, F.5	.40-1.25 GPH	60° or 80° W or A
	F10	1.25-2.50 GPH	60° or W or B
	F15, F20	2.00-5.00 GPH	45° or 60° W or B
	R35.3, R35.5	.50-1.25 GPH	60° or 80° W or B
	Press Series	2.00-12.00 GPH	
lusta utla a uma	MAC 1265	P/N 6601-181 or .	IV-14 ACCOUNTS TO SECURE AND ACCOUNTS
Intertherm	IVIAC 1205		55 GFH 90°W
	MSH 066	or .579 MH	
		.5080°A .65-80°A	
Wayna Hama Earlin	MSH 086		60°, 70°, 80° A or B
Wayne Home Equip.	P100	.50-1.00 GPH	80°, 70°, 60° ****
	EHASR	.75-3.00 GPH	
	MSR	.75-2.75 GPH	80°, 70°, 60° ****
	HS	.50-3.00 GPH	80°, 70°, 60° ****
	HS .	.50-3.00 GPH	80°, 70°, 60° B
147 'I BA I . '	EG-1	.50-3.00 GPH	80°, 70°, 60° ****
Weil-McLain	QB180 (150 PSI)	00.000 00.000 00.000 00.000 00.000	45°, 60°, 70°, 80° A or B
	QB300 (140 PSI)	1.75-3.00 GPH	45°, 60°, 70°, 80° B

<sup>\*</sup> Del-O-Flo A and B nozzles will interchange whenever standard A and B nozzles are called for.

Effective November 1999. Subject to updating by burner manufacturers. For models not listed contact burner manufacturer. Always follow the appliance manufacturer's instructions for the correct nozz specification.

WARNING: Improper modification to combustion units may create a fire hazard resulting in possible injury. Contact the original equipment manufacturer before modifying the combustion unit



#### **NOZZLE**

Hollow-cone Type A nozzles are mainly used on burners with a hollow cone air pattern and for through-puts up to 2 GPH. The droplet distribution is concentrated on the outside of the cone and results in good ignition and low-noise combustion. Solid-cone Type B nozzles

produce a spray that distributes droplets fairly uniformly throughout the complete pattern. The spray pattern becomes progressively more hollow at higher flow rates, particularly above 8 GPH. Provide smooth ignition and efficient combustion, particularly in large burners Type W all purpose nozzles are neither truly hollow nor solid. These nozzles frequently can be used in place of either solid or hollow cone nozzles between 0.40 and 8 GPH, regardless of the burner's air pattern. The lower flow rates tend to be more solid

- · Pattern quide
  - A = hollow cone
  - B = solid cone
  - W = all purpose
- See pattern description above for usage information
- Substitute () in P/N with pattern letter to completely specify individual nozzle, e.g. 6560W.
- Type .579 MH mobile home nozzles are low capacity nozzles designed for mobile home use. This design will minimize the usual plugging problems associated Hago *delavan* with low flow rates

VVILII IOVV	110VV Tates		PHECISION MOZILIS			
	Delavan	Нас	jo			
Part No.	Available Pattern (*)	Part No.	Available Pattern (*)	Flow (GPH)	Spray Angle (Degree)	Price
4070B*	В			0.4	70	\$19.78
5060(*)*	A,B,W	H5060(*)	A,B	0.5	60	\$12.34
5070(*)*	A,B,W	H5070(*)	A,B,W	0.5	70	\$12.34
5080(*)*	A,B,W	H5080(*)	A,B	0.5	80	\$12.34
5090(*)*	A,B,W	H5090A	Α	0.5	90	\$12.34
5590W*	W	H5590W	W	0.55	90	\$12.34
6060(*)*	A,B,W	H6060(*)	A,B,W	0.6	60	\$12.08
6070(*)*	A,B,W	H6070(*)	A,W	0.6	70	\$12.08
6080(*)*	A,B,W	H6080(*)	A,B,W	0.6	80	\$12.08
6090(*)*	A,B	H6090A	А	0.6	90	\$12.08
6545B*	В	H6545B	В	0.65	45	\$12.08
6560(*)*	A,B,W	H6560(*)	A,B,W	0.65	60	\$12.08
6570(*)*	A,B,W	H6570(*)	A,B,W	0.65	70	\$12.08
6580(*)*	A,B,W	H6580(*)	A,B,W	0.65	80	\$12.08
6590(*)*	A,B	H6590A	Α	0.65	90	\$12.08
7070(*)*	A,B	H7070A	Α	0.7	70	\$12.08
7080(*)*	A,W	H7080(*)	A,W	0.7	80	\$12.08
7560(*)*	A,B,W	H7560(*)	A,B,W	0.75	60	\$12.08
7570(*)*	A,B,W	H7570(*)	A,B,W	0.75	70	\$12.08
7580(*)*	A,B,W	H7580(*)	A,B,W	0.75	80	\$12.08
7590(*)*	A,B,W	H7590(*)	A,B,W	0.75	90	\$12.08
8545B*	В	H8545B	В	0.85	45	\$12.08
8560(*)*	A,B,W	H8560(*)	A,B,W	0.85	60	\$12.08
8570(*)*	A,B,W	H8570(*)	A,B,W	0.85	70	\$12.08
8580(*)*	A,B,W	H8580(*)	A,B,W	0.85	80	\$12.08
8590(*)*	A,B			0.85	90	\$12.08

Continued...



📤 \*WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

<sup>\*</sup> Del-O-Ho A and B nozzles will interchange with a Hago SS of the same flow rate, spray angle and spray

\*\* A Delavan SS nozzle will interchange with a Hago. It may be necessary to pattern up to 3.0 GPH. But, when interchanging a Delavan A, B or W with a Hago, it may be nece try the next wider spray angle.

<sup>\*\*\*</sup> The original B nozzle.

<sup>\*\*\*\*</sup> Under 1.00 GPH use A; above 1.00 use B.

#### **OIL BURNER ACCESSORIES**

#### **NOZZLE (CONT'D.)**

## Hago **DELAVAN**

#### **NOZZLE (CONT'D.)**

## Hago DELAVAN

	Delavan	Hag				
Part No.	Available Pattern (*)	Part No.	Available Pattern (*)	Flow (GPH)	Spray Angle (Degree)	Pric
9060(*)*	A,B		, ,	0.9	60	\$12.0
9070(*)*	A,B,W	H9070(*)	A,W	0.9	70	\$12.0
9080(*)*	A,B	H9080(*)	A,B	0.9	80	\$12.0
9090(*)*	A,B	1.0000( /	7.42	0.9	90	\$12.0
10030B*	В			1.0	30	\$12.0
10045B*	В	H10045B	В	1.0	45	\$12.0
10060(*)*	A,B,W	H10060(*)	A,B,W	1.0	60	\$12.
10070(*)*	A,B,W	H10070(*)	A,B,W	1.0	70	\$12.
10080(*)*	A,B,W	H10080(*)	A,B,W	1.0	80	\$12.
10090(*)*	A,B	H10090(*)	A,B	1.0	90	\$12.
11060(*)*	A,B,W	H11060(*)	A,W	1.1	60	\$12.0
11070(*)*	A,B,W	H11070(*)	A,W	1.1	70	\$12.0
11080(*)*	A,B,W	H11080(*)	A,B,W	1.1	80	\$12.0
11090(*)*	A,B	H11090A	Α	1.1	90	\$12.
12060(*)*	A,B,W	H12060A	A	1.2	60	\$12.
12070(*)*	A,B,W	H12070(*)	A,B,W	1.2	70	\$12.
12080(*)*	A,B,W	H12080(*)	A,B,W	1.2	80	\$12.
12090(*)*	A,B	1112000( )	7,75	1.2	90	\$12.
12560(*)*	A,B,W	H12560(*)	A,B,W	1.25	60	\$12.
12570(*)*	A,B,W	H12570(*)	A,B,W	1.25	70	\$12.
12580(*)*	A,B,W	H12580(*)	A,B,W	1.25	80	\$12.0
12590(*)*	A,B,W	1112300( )	A,D,VV	1.25	90	\$12.
12550( ) 13545A*	A			1.35	45	\$12.0
13560(*)*	A,B,W	H13560(*)	B,W	1.35	60	\$12.0
13570(*)*	A,B,W	H13570(*)	A,W	1.35	70	\$12.0
13580(*)*	A,B,W	H13580W	W	1.35	80	\$12.
13590(*)*	A,B,W	1113300	VV	1.35	90	\$12.
15060(*)*	A,B,W			1.55	60	\$12.0
15070(*)*	A,B,W	H15070W	W	1.5	70	\$12.
		H15080(*)		1.5	80	\$12.
15080(*)*	A,B,W	П10000(")	A,B	-	90	
15090(*)*	A,B			1.5		\$12.
16560(*)*	A,B,W			1.65	70	\$12.0
16570(*)*	A,B,W	LI16FOOA	^	1.65	70	\$12.
16580(*)*	A,B,W	H16580A	Α	1.65	80	\$12.
16590(*)*	A,B			1.65	90	\$12.
17530A*	A D.W/			1.75	30	\$12.0
17560(*)*	A,B,W			1.75	60	\$12.0
17570(*)*	A,B	1147500/**	A D	1.75	70	\$12.0
17580(*)*	A,B,W	H17580(*)	A,B	1.75	80	\$12.0
17590(*)*	A,B	11000000(**)	A F 147	1.75	90	\$12.0
20060(*)*	A,B,W	H20060(*)	A,B,W	2.0	60	\$12.0
20070(*)*	A,B	H20070A	Α	2.0	70	\$12.0
20080(*)*	A,B,W	H20080B	В	2.0	80	\$12.0
20090A*	A			2.0	90	\$12.
22545B*	В			2.25	45	\$12.
22560B*	В	H22560(*)	A,B	2.25	60	\$12.0
22570(*)*	A,B			2.25	70	\$12.0
22580(*)*	A,B	H22580A	Α	2.25	80	\$12.0
22590(*)*	A,B			2.25	90	\$12.0

	Delavan Hago					
	Available		Available		Spray	
Part No.	Pattern (*)	Part No.	Pattern (*)	Flow (GPH)	Angle (Degree)	Price
25060(*)*	A,B,W	H25060(*)	A,B,W	2.5	60	\$12.08
25070(*)*	A,B	1123000( /	Α,Β,	2.5	70	\$12.08
25080(*)*	A,B,W	H25080(*)	A,B,W	2.5	80	\$12.08
25090(*)*	A,B		7.,2,	2.5	90	\$12.08
27560(*)*	A,W			2.75	60	\$12.08
27570(*)*	A,B			2.75	70	\$12.08
27580(*)*	A,B			2.75	80	\$12.08
27590(*)*	A,B			2.75	90	\$12.08
30045A*	Α			3.0	45	\$12.08
30060(*)*	B,W	H30060A	А	3.0	60	\$12.08
30070(*)*	A,B			3.0	70	\$12.08
30080(*)*	A,B,W	H30080A	А	3.0	80	\$12.08
30090A*	Α			3.0	90	\$12.08
32560(*)*	A,B			3.25	60	\$19.78
32570(*)*	A,B			3.25	70	\$19.78
32580(*)*	A,B			3.25	80	\$19.78
32590(*)*	A,B			3.25	90	\$19.78
35030(*)*	A,B			3.5	30	\$19.78
35060(*)*	A,B,W			3.5	60	\$19.78
35070(*)*	A,B			3.5	70	\$19.78
35080(*)*	A,B,W			3.5	80	\$19.78
35090A*	Α			3.5	90	\$19.78
37560(*)*	A,B			3.75	60	\$19.78
37570(*)*	A,B			3.75	70	\$19.78
37580(*)*	A,B			3.75	80	\$19.78
37590(*)*	A,B			3.75	90	\$19.78
40060(*)*	A,B			4.0	60	\$19.78
40070(*)*	A,B			4.0	70	\$19.78
40080(*)*	A,B			4.0	80	\$19.78
40090(*)*	A,B			4.0	90	\$19.78
42560(*)*	A,B			4.25	60	\$19.78
42570(*)*	A,B			4.25	70	\$19.78
42580(*)*	A,B			4.25	80	\$19.78
45060(*)*	A,B,W			4.5	60	\$19.78
45070(*)*	A,B			4.5	70	\$19.78
45090B*	В			4.5	90	\$19.78
50030A*	A			5.0	30	\$19.78
50060A*	A			5.0	60	\$19.78
50070(*)* 50080(*)*	A,B			5.0 5.0	70 80	\$19.78 \$19.78
50080(*)*	A,B A,B			5.0	90	\$19.78
55080(*)*	А,В			5.5	80	\$19.78
60030W*	W W			6.0	30	\$20.14
60060A*	A			6.0	60	\$19.78
60080A*	A			6.0	80	\$19.78
60090B*	В			6.0	90	\$19.78
80080A*	A			8.0	80	\$19.78
85080A*	A			8.5	80	\$19.78
90080(*)*	A,B			9.0	80	\$19.78
120080A*	Α			12.0	80	\$19.78
120090A*	Α			12.0	90	\$19.78
579MH*1	_			0.58	_	\$13.58

Continued...

<sup>1</sup>Mobile home nozzle

\*WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov



#### **NOZZLE ADAPTOR**

Used as a coupling between the nozzle and the oil line from the pump. The Adaptrap is a nozzle adapter that helps prevent afterdrip, drooling during the off period. Helps eliminate erratic spray and flame flutter on burner shut-of

Dimension: 1 3/8"L x 1/8" FPT

· Brass construction

#### **DELAVAN**

Part No.	Description	Price
287371*	Standard Adaptor	\$10.70



#### **NOZZLE WRENCH**

- Passes through the small openings of the flame retention-disc. Just snap off the outer socket and use the inner socket alone to remove the nozzle.
- For wider openings, snap on the outer socket and use like a standard nozzle changer.

#### DELAVAN CE

Part No.	Description	Price
34478*	2 in 1 Nozzle Changer	\$200.82

#### FUEL PUMP



#### SINGLE STAGE FLANGE MOUNT

- Single pipe installations to 6" Hg. vacuum
- Two-pipe installations to 12" Hg. vacuum
- · Lift or gravity feed applications with 10 psi max. inlet/return pressure
- Suitable for No. 2, No. 1 fuel oil, or kerosene
- Mounting in any position
- · Factory set at 100 psi
- Adjustable range 100-150 psi at 3450 rpm, 100-135 psi at 1725 rpm
- Rotation and port location as viewed from shaft end
- Strainer and nozzle rating: A1V, A2V series: 3 GPH 100 psi A1Y series: 7 GPH 100 psi



Part No.	RPM	Rotation	Nozzle Location	Price
A1YA7912*	1725	CW	Right	\$298.00
A1YC7914*	1725	CCW	Left	\$285.46
A2VA7116*	3450	CW	Right	\$251.56



B1VA8212

#### TWO STAGE FLANGE MOUNT

- Two pipe installations up to 17" Hg. vacuum
- Lift or gravity feed applications with 10 psi max. inlet/return pressure
- Factory set at 100 psi
- Pressure adjustable from 100-150 psi at 3450 rpm, 100-135 psi at 1725 rpm
- Suitable for No. 2, No. 1 fuel oil, or kerosene
- Mounting in any position except upside down
- Rotation and port location as viewed from shaft end
- Strainer and nozzle rating: 3 GPH 100 psi



Part No.	RPM	Rotation	Nozzle Location	Price
B1VA8212*	1725	CW	Right	\$360.10



#### QUICK SWIVEL. U MOUNT. WITH H BRACKET

- · Provides you with a non-swinging, rotating platform that is quick, safe, stable and affordable. It can easily be installed in residential or commercial applications. Turn the Swivel in any direction you need, then lock it in place.
- The Quick Swivel is made with 14-gauge steel able to hold 200 lbs. The swivel allows for 360 degree rotation for setting the perfect direction of air flo .
- Each arm attaches to wood using 2 zip screws for stability and a 4" through bolt and wing nut for security. It can also be installed to steel using the steel beam adapters.
- Extension arms individually adjust in 1" increments using thumb screws and wing nuts for speed and versatility. This U mount installs as high as 19.5" or as low as 27.5" on flat or pitched roofs
- 12 points of anti-vibration isolation is provided along with 3 hitch pins for the H bracket. This adds to the safety and sturdiness of the Quick Swivel.
- Installation can be accomplished in minutes because all necessary hardware is provided.
- Use with Reznor UDAP30-125, UDAS30-125 QUICK-SLING

	•	
Part No.	Description	Price
QSWI1000	Swivel "U" Mount, with H Bracket, 200 Lbs Max Hold	\$288.28



#### **QUICK-SLING**



## FLUSH MOUNT SWIVEL WITH H BRACKET

 The Quick Swivel provides you with a non-swinging, rotating platform that is quick, safe, stable and affordable. It can easily be installed in residential or commercial applications. Turn the Swivel in any

direction you need, then lock it in place.

- Made with 14-gauge steel able to hold 200 lbs. The swivel allows for 360 degree rotation for setting the perfect direction of air flo
- The flush mount hanger is slotted to receive a 3/8 lag bolt 16" or 24" on center. It can be attached parallel or perpendicular to the joist.
- The square steel tubing cuts down on vibration while 3 hitch-pins add to the safety and sturdiness of the Quick Swivel with H bracket.
- Installation can be accomplished in minutes because all necessary hardware is provided.
- Use with Reznor UDAP30-125, UDAS30-125 QUICK-SLING

Part No.	Description	Price
QSWI3000	Flush Mount Swivel, with H Bracket, 200 Lbs Max Hold	\$264.86



## FLUSH MOUNT SWIVEL WITH I BRACKET

 The Quick Swivel provides you with a non-swinging, rotating platform that is quick, safe, stable and affordable. It can easily be installed in residential or commercial applications. Turn the Swivel in any

direction you need, then lock it in place.

- Able to hold 400 lbs, the swivel allows for 360 degree rotation for setting the perfect direction of air flo .
- The mounting plate is pre-slotted to receive a 3/8" hex bolt. It can be attached parallel or perpendicular to the joist.
- Installation can be accomplished in minutes because all necessary hardware is provided.
- Use Reznor UDAP, UDAS

#### QUICK-SLING

Part No.	Description	Price
QSWI5000	Flush Mount Swivel, with I Bracket, 400 Lbs Max Hold	\$436.80

#### **GAS ACCESSORIES**

#### **Dormont Specification**

- Tubing: Annealed, 304 stainless steel (ASTM A240)
- Approved for indoor and outdoor use
- 100% Factory leak tested
- Avoid repeated bending, flexing, or extreme vibration. Do not use on generators due to excessive vibration.
- Tube Diameter 2031 Series: 3/8" ID 3031, 3042 Series: 1/2" ID

#### Dormont meets the following codes

- ANSI Z21.24/CSA 6.10 Connectors for Gas Appliances
- ANSI Z21.75/CSA 6.27 Connectors for Outdoor Appliances and Manufactured Homes
- City of New York MEA #376-92-M
- Approved by the Commonwealth of Massachusetts Board of State Examiners of Plumbers and Gas Fitters - connector length may not exceed 36".



## CONNECTION 1/2" MPT X 1/2"



Part No.	Connection Size (In.)	Robert Part No	Price
30313212	1/2 MPT X 1/2 FPT	S7812H	\$22.76
30313218	1/2 MPT X 1/2 FPT	S7818H	\$27.56
30313224	1/2 MPT X 1/2 FPT	S7824H	\$31.80
30313236	1/2 MPT X 1/2 FPT	S7836H	\$36.16
30313248	1/2 MPT X 1/2 FPT	S7848H	\$45.92

#### **CONNECTION 1/2" MPT X 1/2" MPT**



Part No.	Connection Size (In.)	Robert Part No	Price
30313112	1/2 MPT X 1/2 MPT	S7812I	\$24.12
30313118	1/2 MPT X 1/2 MPT	S7818I	\$24.34
30313124	1/2 MPT X 1/2 MPT	S7824I	\$33.72
30313130	1/2 MPT X 1/2 MPT	S7830I	\$35.08
30313136	1/2 MPT X 1/2 MPT	S7836I	\$38.32
30313148	1/2 MPT X 1/2 MPT	S7848I	\$48.68
30313160	1/2 MPT X 1/2 MPT	S7860I	\$58.44

#### **CONNECTION 1/2" MPT X 3/4" FPT**



Part No.	Connection Size (In.)	Robert Part No	Price
30314218	1/2 MPT x 3/4 FPT	S7818E	\$27.56
30314224	1/2 MPT x 3/4 FPT	S7824E	\$31.80
30314236	1/2 MPT x 3/4 FPT	S7836E	\$36.16
30314248	1/2 MPT x 3/4 FPT	S7848E	\$45.92
30314260	1/2 MPT x 3/4 FPT	S7860E	\$55.12

#### CONNECTION 3/4" FPT X 3/4" FPT



Part No.	Connection Size (In.)	Robert Part No	Price
30424212	3/4 FPT x 3/4 FPT	S7812B	\$22.76
30424218	3/4 FPT x 3/4 FPT	S7818B	\$27.56
30424224	3/4 FPT x 3/4 FPT	S7824B	\$31.80
30424230	3/4 FPT x 3/4 FPT	S7830B	\$33.08
30424236	3/4 FPT x 3/4 FPT	S7836B	\$36.16
30424248	3/4 FPT x 3/4 FPT	S7848B	\$45.92
30424260	3/4 FPT x 3/4 FPT	S7860B	\$55.12



#### **CONNECTION 1/2" MPT X 1/2" FPT BALL VALVE**

## WATTS

Part No.	Connection Size (In.)	Robert Part No	Price
20313518	1/2 MPT X 1/2 FPT	S1218V1	\$41.24
20313524	1/2 MPT X 1/2 FPT	S1224V1	\$44.66
20313530	1/2 MPT X 1/2 FPT	S1230V1	\$55.00
20313536	1/2 MPT X 1/2 FPT	S1236V1	\$59.04
20313548	1/2 MPT X 1/2 FPT	S1248V1	\$67.96
30313524	1/2 MPT X 1/2 FPT	S7824R5	\$59.52

#### **CONNECTION 1/2" MPT X 3/4" FPT BALL VALVE**



Part No.	Connection Size (In.)	Robert Part No	Price
30314524	1/2 MPT x 3/4 FPT	S7824V1L	\$59.52



#### **GAS COCK**

Part No.	Connection Size (In.)	
GC38	3/8 FPT	<b>~</b>
GC12	1/2 FPT	<b>~</b>
GC34	3/4 FPT	<b>~</b>
GC38X12	3/8 MFL x 1/2 FPT	2
GC12X12	1/2 MFL x 1/2 FPT	2
GC38X38	3/8 MFL	2

#### SHUT OFF

#### **BALL, FULL PORT, PACKING GLAND**

- -20°F to 300°F temperature range
- Full port for maximum flow rat
- Packing Gland blowout-proof stem design
- · PTFE seat and packing
- Chrome-plated brass ball and stem
- Lead Free
- 600 PSI WOG/150 WSP (1/2" 2")
- 400 PSI Non-Shock WOG (2-1/2" 4")



**BALL, FULL PORT, PACKING GLAND, SWEAT** 

Part No.	Nominal Size (In.)	Ship Wgt (Lbs.)	Price
12FBVSE	1/2	0.34	2
34FBVSE	3/4	0.655	<b>*</b>
1FBVSE	1	1.058	<b>*</b>
114FBVSE	1 1/4	1.51	<b>**</b>
112FBVSE	1 1/2	2.341	*
2FBVSE	2	3.65	<b>**</b>
212FBVSE	2 1/2	6.49	*
3FBVSE	3	8.71	<b>~</b>
4FBVSE	4	16.75	2



**BALL, FULL PORT, PACKING** GLAND, FPT

Part No.	Nominal Size (In.)	Ship Wgt (Lbs.)	Price
14FBVE	1/4	0.282	<b>~</b>
38FBVE	3/8	0.291	2
12FBVE	1/2	0.448	2
34FBVE	3/4	0.66	2
1FBVE	1	1.102	<b>~</b>
114FBVE	1 1/4	1.638	2
112FBVE	1 1/2	2.388	<b>~</b>
2FBVE	2	3.56	<b>~</b>
212FBVE	2 1/2	6.49	<b>2</b>
3FBVE	3	9.03	2
4FBVE	4	16.17	2

#### **SHUT OFF**



#### **EXTENSION**

Stem extension: series

HANDLE	Tio.
ns compatible with FBVE	
	12S29

#### **GATE, SWEAT**

For general service on water, steam, oil or compressed gas.

- Threaded bonnet
- · Nonrising stem
- Bronze body: 125 WSP/200 WOG

Part No.	Nominal Size (In.)	Ship Wgt (Lbs.)	OD (In.)	Price
12S29	1/2	0.57	5/8	2
34S29	3/4	0.82	7/8	<b>~</b>
1S29	1	1.14	1 1/8	2
114S29	1 1/4	2	1 3/8	2
112S29	1 1/2	2.15	1 5/8	2
2S29	2	3.35	2 1/8	2

#### Part No. Size (In.) Ship Wgt (Lbs.) Price 889823 1/2 - 3/4 0.168 889825 1 - 1 1/4 0.194 **\*\*\*** 889827 0.225 1 1/2 - 2 889829 2 1/2 - 4 0.47 **\*\***

## 12WBVS

#### **BALL, STANDARD PORT, SWEAT**

- PTFE seats
- · Suitable for full range of liquids and
- Pressure rated at 400 psi, WOG nonshock



Part No.	Nominal Size (In.)	Ship Wgt (Lbs.)	OD (In.)	Price
12WBVS	1/2	0.33	5/8	<b>*</b>
34WBVS	3/4	0.55	7/8	<b>2</b>
114WBVS	1 1/4	1.22	1 3/8	2
2WBVS	2	3.15	2 1/8	<b>**</b>



#### **GATE, FPT**

For general service on water, steam, oil or compressed gas.

- Threaded bonnet
- · Nonrising stem
- Bronze body: 125 WSP/200 WOG

Part No.	Size FPT (In.)	Ship Wgt (Lbs.)	Price
12T29	1/2	0.54	<b>~</b>
34T29	3/4	0.58	<b>2</b>
1T29	1	1.18	2
114T29	1 1/4	2	2



#### **BALL, STANDARD PORT, FPT**

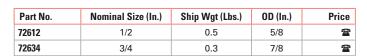
- PTFE seats
- · Suitable for full range of liquids and
- Pressure rated at 400 psi, WOG nonshock



Part No.	Nominal Size (In.)	Ship Wgt (Lbs.)	Price
38WBVT	3/8	0.27	**
114WBVT	1 1/4	1.22	<b>*</b>
2WBVT	2	3.15	<b>~</b>



### STOP AND WASTE, SWEAT





**BOILER DRAIN** 

• MPT x male hose thread

Part No.	Connection Size (In.)	Ship Wgt (Lbs.)	Price
7412	1/2	0.4	~
7434	3/4	0.43	2

HEATING ACCESSORIES

Please contact your local United Refrigeration Branch or our Customer Service Center for pricing.

#### **CIRCULATOR PUMP**



#### 100 SFRIFS BOOSTFF

The industry standard for hydronic heating systems. Specifically designed to be easily serviced in the field with replaceable motor, bearing assembly, coupler, seal and impeller. Both the motor and the sleeve bearing frame are lubricated with oil.

- Maximum working pressure: 125 psi
- Maximum operating temperature: 225°F continuous

B	Bell	&	Gossett'
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	Cons	truction		C	utoff						
Part No.	Body	Impeller	НР	GPM	Head (Ft.)	Maximum Tem- perature (°F)	Performance Chart Code	Length (In.)	Height at Flange (In.)	Ship Wgt (Lbs.)	Price
100NFI	Cast Iron	Nonferrous	1/12	33.0	8	225	А	14 7/8	6 3/8	20.4	\$861.00
106197	Bronze	Nonferrous	1/12	33.0	8	225	А	14 7/8	6 3/8	20.45	\$1,442.00
106192	Bronze	Brass	1/12	33.0	8	225	А	14 7/8	6 3/8	20.55	\$1,463.00
102210 <sup>1</sup>	Cast Iron	Nonferrous	1/6	40.0	12	225	В	15 3/8	8 1/2	29.05	\$1,533.00
102213 <sup>1</sup>	Bronze	Nonferrous	1/6	40.0	12	225	В	15 3/8	8 1/2	30	\$2,506.00

<sup>&</sup>lt;sup>1</sup>HV Series Pumps

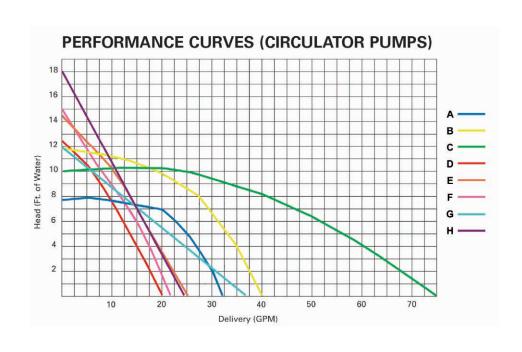


#### **HIGH GPM RESIDENTIAL**

Residential pumps with large volute for higher flow capacities



	Cons	truction		Cutoff						
Part No.	Body	Impeller	НР	GPM	Head (Ft.)	Performance Chart Code	Length (In.)	Height at Flange (In.)	Ship Wgt (Lbs.)	Price
102214	Cast Iron	Non-ferrous	1/6	75.0	10	С	16 5/8	8 1/2	37.58	\$1,827.00



#### **CIRCULATOR PUMP**



#### **COMPACT, OIL LUBRICATED**

Unique design fills the void where wet rotor circulators may not be applicable and the standard three-piec booster pump is too large.

- Impeller is glass fille
- Maximum working pressure: 125 psi
- Maximum operating temperature: 225°F



	Constr	uction		C	utoff						
Part No.	Body	Impeller	HP	GPM	Head (Ft.)	Max. Temp. (°F)	Performance Chart Code	Length (In.)	Height at Flange (In.)	Ship Wgt (Lbs.)	Price
LR20	Cast Iron	Noryl	1/20	20.0	12	225	D	6 15/16	6 3/8	9.85	\$539.00
LR15B	Bronze	Noryl	1/12	25.0	14	225	E	7 15/16	6 3/8	8.8	\$847.00



#### **COMPACT, WET ROTOR**

A residential or light commercial, maintenance free, axial flanged, in-line, cast iron, wet rotor circulation pump for hydronic heating systems.

- Impeller is 30% glass fille
- Maximum working pressure: 150 psi



		Construction			Construction								
David Na	No. of	Dad.	loon all an	Massa	Cutoff	B4 T (9F)	Performance	Length	Height at	Ship Wgt	Deina		
Part No.	Speeds	Body	Impeller	Watts	(GPM)	Max. Temp. (°F)	Chart Code	(In.)	Flange (In.)	(Lbs.)	Price		
NRF22	1	Cast Iron	Polypropylene	92	22.0	240	F	6 3/16	6 3/8	6.8	\$238.00		
NRF25	3	Cast Iron	Polypropylene	125	24.5	225	Н	6 3/16	6 3/8	9.32	\$259.00		
NRF33	1	Cast Iron	Polypropylene	125	37.0	225	G	5 9/16	6 3/8	10.4	\$434.00		

	FLOW RAT Net Btuh Load _	E .					Bell & Gossett		
	Net Blun Load _	-							
		low Rate		TO1	ORS A PIPE CAI				
	10,000						Total Convectors		
	- MAXIMUM FLOW	DATE		Pipe Size Maximum Bi (Copper) Capacity of			(6" x 36" x 24"		
	MAXIMOM FLOW	RAIE	(C	opper) ½"		15,000	5,100 Btuh each)		
F	Pipe Size			3/4"		40.000	8		
(	Copper) Ma	ximum Flow Rate		1"		80.000	16		
-,5	1/2"	1½ gpm		11/4"		40.000	27		
	3/4"	4 gpm		(Based o		e water temperat	ure and a		
	1"	8 gpm				op across the sys			
	11/4"	14 gpm							
	157	35	(			PIPING SIZE -	Max. Flow		
— MAXIMUN	I FLOW RATE & HEAT	CARRYING CAPACITY ——	Pipe S	Dimo.	Max. Flow Rate	Pipe Size			
			Park 10#1111111	copper	1½ gpm	2" copper	45 gpm		
Pipe Size	22 2 21 22	Heat Carrying		copper	4 gpm	1¼" iron pipe			
(Copper)	Maximum Flow Ra			copper	8 gpm	1½" iron pipe			
1/2" 3/4"	1½ gpm	15,000 Btuh		opper	14 gpm	2" iron pipe			
1"	4 gpm	40,000 Btuh		copper	22 gpm	The state of the s	i cas arean		
11/4"	8 gpm 14 gpm	80,000 Btuh 140,000 Btuh			0,1				
155	on a 20°F temperature di			ZONE-C	IRCULATOR S	IZING FOR HEA	TING ZONES		
(Dased O	in a 20 1 temperature ui	op across the system,	Zone	Supply	Pipe Size	Bell 8	& Gossett		
- MAYIMID	M I ENGTH OF FIN.THE	E BASEBOARD LOOP		(Copp	er)	Circula	ator to Use		
mironino	WEEKOIN OF THE TO	E DAGEBOARD EGG!		1/2"			33 or Series 100		
Baseboard S	ize Typical Btuh	Per Maximum Length		3/4"			33 or Series 100		
(Copper)	Linear Fo			1"			33 or Series 100		
1/2"	600	25 feet		11/4"		Series HV or N	IRF-33		
3/4"	600	67 feet	0.10						
1"	770	104 feet				00 can be used w	H ZONE VALVES		
11/4"	790	177 feet	1.		to three 3/4" heat		IUI.		
	n 180°F average water					nes and one 1" zo	ned		
20°F	temperature drop acros	s the system)			nestic water stor				
	"PUMP HEA	D"	2.			00 can be used w	ith:		
	PUMP HEA			a. Upt	to five 3/4" heatin	ig zones, or			
Measure the	longest run in feet.	3. Multiply that by .04 and			ee ¾" heating zonestic water stor	ones and one 1" a	zoned		

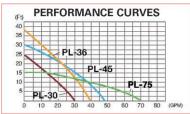


#### **COMPACT, SERIES PL™**

- Powerful, dry-motor design delivers exceptional performance
- XL-11<sup>™</sup> Precision-Crafted Bearing System
- · Permanently oil lubricated
- Completely maintenance free
- · Advanced close-coupled design increases pump life and efficienc, assures dependable seasonal start-ups and can easily handle difficult water condition
- Tough, durable seal system features a carbon/silicon carbide seal on a stainless steel shaft sleeve for long life and rugged operation
- · Maximum working pressure: 150 psi
- · Maximum operating temperature: 225°F
- · Body construction: cast iron
- Impeller construction: 30% glass filled Nory ®
- 1BL034 (PL-75) has a 4-bolt hole flange connection, all others have a 2-bolt hole flange connectio



		Cut	toff						
Part No.	НР	GPM	Head (Ft.)	Max.Temp. (°F)	Length (In.)	Height at Flange (In.)	Model	Ship Wgt (Lbs.)	Price
1BL012*	1/12	30.0	25	225	8 5/8	6 3/8	PL-30	11.6	\$679.00
1BL001*	1/6	40.0	38	225	8 5/8	6 3/8	PL-36	13	\$693.00
1BL002*	1/6	48.0	30	225	9 1/8	8 1/2	PL-45	14.5	\$770.00
1BL034*	1/6	70.0	15	225	9 15/16	8 1/2	PL-75	18.5	\$1,701.00





#### **ALPHA SERIES**

With the Grundfos ALPHA, you can stop worrying about complicated pump settings. Simply install the pump and leave it on the factory setting AUTOADAPT. The ALPHA will automatically analyze the heating system, find the optimum

setting and continue to adjust its operation to changes in demand. With its permanent magnet motor design, this energy efficien circulator will reduce power consumption up to 80%. Ensuring lowest possible energy consumption without sacrificing comfort The Grundfos ALPHA is designed for circulating liquids in light commercial and residential heating systems.

- Compact permanent magnet maintenance-free wet rotor technology
- Nut capture flange
- Available with integrated terminal box or line cord option
- Simple one button hydraulic selection
- 7 hydraulic selections available: 3 fixed speeds options, 3 constant pressure options, AutoAdapt
- Real time LED display: Watts indicator, GPM flow estimation indicator, Hydraulic mode selection
- · Metallurgical options: Cast-iron, Stainless steel
- Integrated check valve



			C	utoff					
	Body				Maximum Temperature		Height at Flange		
Part No.	Construction	HP	GPM	Head (Ft.)	(°F)	Length (In.)	(In.)	Ship Wgt (Lbs.)	Price
ALPHA1555F	Cast Iron	1/12	21.0	18	230	6 1/2	6 1/2	7.2	\$378.46



#### 3-SPEED, "SUPER BRUTE"

- Eliminates More Than a Dozen Competitive Models
- 3 Speed Motor Technology
- Reduces Noise and Power Consumption
- Unique "Removable" Integrated Check Valve, Minimal Flow Restriction
- · Highest Performance and Torque of any Standard Wet Rotor Circulator
- Zone valve close off reliability can be significantly improve
- · Prevents thermo-siphoning
- · Allows for minimal system flo
- · Provides flexibility in installation
- · Eliminates the expense for an inline check valve
- · Ideal for Zoning



Cutoff											
Part No.	Body Construction	НР	GPM	Head (Ft.)	Maximum Temperature (°F)	Length (In.)	Height at Flange (In.)	Ship Wgt (Lbs.)	Price		
UPS1558FC	Cast Iron	1/25	17.0	19	230	5 1/4	6 1/2	7.25	\$204.04		
UPS2699FC	Cast Iron	1/6	33.0	29	230	5 1/4	6 1/2	10.3	\$731.50		

#### CIRCULATOR PUMP



self-purges air from pump

• BIO Barrier® protects pump from system contaminants

SureStart<sup>™</sup> automatically frees locked rotor condition and

#### **ECM HIGH EFFICIENCY CIRCULATOR**

- High-efficiency wet rotor circulator with an ECM permanent magnet motor, uses up to 85% less electricity
- · Ideal for hydronic systems zoned with circulators or zone valves
- Integral Flow Check (IFC®) included
- Optional 2-way flange model reduces SKUs and provides universal fit-up to any flange positi
- · Use with a Taco ZVC Zone Valve Control or SR Switching Relay for ON/OFF operation
- Dual electrical knockouts, 6" stranded wire leads included for easy
- · Double insulated. No ground wire required
- Whisper quiet operation



Part No.	Cutoff GPM	Cutoff Head (Ft.)	Max. Temperature (°F)	Length (In.)	Width (In.)	Height at Flange (In.)	Ship Wgt (Lbs.)	Price
007E*	16.0	10	230	6	5 1/8	6 3/8	6	\$324.80
0015E	16.0	5, 10, 18	230	6	5 1/8	6 3/8	5.8	\$343.66



#### **CARTRIDGE STYLE**

Designed for use in hydronic heating, chilled fresh water systems, and domestic water systems. The unique replaceable cartridge contains all the moving parts and allows the circulator to be serviced instead of replacing the

entire unit. Self-lubricating, contains no mechanical seal, and requires no maintenance.

- Construction: Cast iron body with a nonmetalic impeller
- Maximum pressure rating: 125 psi
- Maximum temperature rating: 240°F



Part No.	HP	Cutoff GPM	Cutoff Head (Ft.)	Max. Temperature (°F)	Length (In.)	Width (In.)	Height at Flange (In.)	Ship Wgt (Lbs.)	Price
007F	1/25	20.0	11	240	6 7/16	4 5/8	6 11/32	7.45	\$240.26



#### **CARTRIDGE STYLE, HIGH VELOCITY**

Designed for high head / high flow applications in large residential and light commercial systems. Ideal for high pressure drop boilers, fan coil units, heat exchangers, larger radiant systems, heat recovery and geothermal systems.

The exclusive ACB (Anti-Condensate Baffle)anti-condensate baffl with ambient air flow prevents the build up of condensate on the

motor windings when pumping chilled water. Its unique field-servic able cartridge contains all moving parts and allows for easy service instead of replacing the entire circulator. With no mechanical seal, the self-lubricating, maintenance free design provides unmatched reliability.

· Max. working pressure: 150 psi • Max. fluid temperature: 230°

Cast iron construction



Part No.	HP	Cutoff GPM	Cutoff Head (Ft.)	Max. Temperature (°F)	Length (In.)	Width (In.)	Height at Flange (In.)	Ship Wgt (Lbs.)	Price
0013	1/6	33.0	33	230	7 3/4	6	6 1/2	12.15	\$823.04



#### **CARTRIDGE STYLE, RADIANT, 3-SPEED**

Specifically designed for the flow an head requirements of today's radiant heat systems. Its 3-Speed switching capability provides fine tuning control to match a wide combination of tube diameters and length of runs. The 00R 3-Speed Radiant pump is a direct replacement for the Grundfos UPS 15-58 3-Speed.

- · Fine tune to system requirements
- Highest performance and starting torque in class
- Removable high-flow Integral Flow Check (IF ®) Prevents gravity flo Reduces installation costs Improves pump performance
- Replaceable cartridge design
- · Self lubricating, no mechanical seal
- · Cast Iron
- Maximum working pressure: 125 psi
- Maximum fluid temperature: 230°



Part No.	HP	Cutoff GPM	Cutoff Head (Ft.)	Max. Temp. (°F)	Length (In.)	Width (In.)	Height at Flange (In.)	Ship Wgt (Lbs.)	Price
00RMSF1IF	1/20	18.0	21	230	6 1/2	5 3/8	6 3/8	7.06	\$236.24



#### **CENTRIFUGAL PUMP**



#### **CLOSE COUPLED**

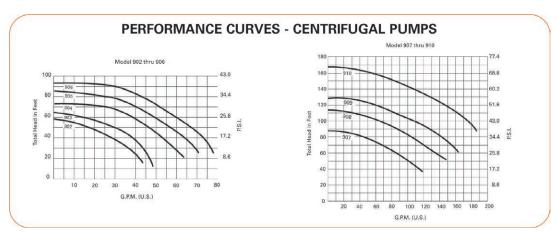
Closed-coupled, end suction design offers the advantages of space saving and lower cost due to elimination of the need for a base plate, bearing frame, special coupling and guard. Standard

NEMA pump motors are used throughout. T angential discharge and back pull out design are featured.

- Maximum fluid temperature: 180°F continuous 211°F intermittent
- Maximum working pressure: 125 psi
- Construction: cast iron volute, brass impeller



		Connection Size (In.) Dimensions (In.)			1.)				
Part No.	HP	Voltage	Suction	Discharge	Н	W	L	Ship Wgt (Lbs.)	Price
3902B1	1/3	115/1/60	1 1/4	1	8 3/4	8 3/8	14 1/16	39	\$894.40
3903B1	1/2	115/230/1/60	1 1/4	1	8 3/4	8 3/8	14 7/16	39	\$900.90
3903B3	1/2	208-230/460/3/60	1 1/4	1	8 3/4	8 3/8	14 7/16	38	\$887.90
3904B1	3/4	115/230/1/60	1 1/2	1 1/4	8 3/4	8 3/8	15 1/16	43	\$921.70
3904B3	3/4	208-230/460/3/60	1 1/2	1 1/4	8 3/4	8 3/8	15 1/16	40	\$915.20
3905B1	1	115/230/1/60	1 1/2	1 1/4	8 3/4	8 3/8	15 7/8	49	\$989.30
3905B3	1	208-230/460/3/60	1 1/2	1 1/4	8 3/4	8 3/8	15 7/8	47	\$921.70
3906B1	1 1/2	115/230/1/60	1 1/2	1 1/4	8 3/4	8 3/8	16 7/8	54	\$1,043.90
3906B3	1 1/2	208-230/460/3/60	1 1/2	1 1/4	8 3/4	8 3/8	16 7/8	48	\$1,194.70
3907B1	2	115/230/1/60	2	1 1/2	9	9 1/4	17 1/16	63	\$1,249.30
3907B3	2	208-230/460/3/60	2	1 1/2	9	9 1/4	17 1/16	57	\$1,240.20
3908B1	3	115/230/1/60	2	1 1/2	9	9 1/4	18 1/16	78	\$1,570.40
3908B3	3	208-230/460/3/60	2	1 1/2	9	9 1/4	18 1/16	62	\$1,358.50
3909B3	5	208-230/460/3/60	2	1 1/2	9 3/16	12 1/8	20 1/8	99	\$2,572.70
3910B3	7 1/2	208-230/460/3/60	2	1 1/2	9 3/16	12 1/8	21 1/8	113	\$2,723.50



#### **VOLUTE ONLY**

Replacement pump ends; no motor supplied. Use pump chart if proper HP motor is applied.

• Construction: cast iron volute, brass impeller



Part No.	Connection Size Suction (In.)	Connection Size Discharge (In.)	Ship Wgt (Lbs.)	Price
3902BP	1 1/4	1	25	\$552.50
3903BP	1 1/4	1	25	\$552.50
3904BP	1 1/2	1 1/4	28	\$552.50
3905BP	1 1/2	1 1/4	28	\$552.50
3906BP	1 1/2	1 1/4	28	\$552.50
3907BP	2	1 1/2	35	\$669.50
3908BP	2	1 1/2	35	\$669.50
3909BP	2	1 1/2	43	\$962.00
3910BP	2	1 1/2	43	\$962.00

#### PUMP ACCESSORIES AND REPAIR



#### **COUPLER**

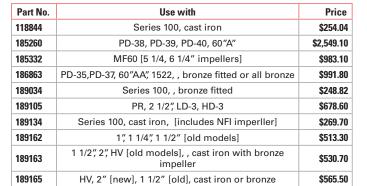


**Bell & Gossett** 

Part No.	Description	Use with	Price
118705	Coupler 1/2" x 1/2", spring type, cast	Series 100, HV, 2", PR, 1", 1 1/4", 1 1/2", 2"	\$43.50
118473	Coupler 1/2" x 1/2", spring type, cast	PD-35, PD-37, 60 "AA", 1522, MF 60 with 51/4" and 61/4" impellers	\$109.62
118708	Coupler 3/4" x 5/8", spring type, cast	PD-35, PD-37, 60 "AA"	\$408.90
118709	Coupler 5/8" x 1/2", spring type, cast	PD-35, PD-37, 60 "AA", 1522	\$121.80
186410	Coupler 5/8" x 1/2", spring type, cast	PD-38, PD-39, PD-40, 60"A"	\$153.12
118723	Coupler 1/2" x 1/2", spring type, cast	21/2", LD-3, HD-3, HLD-3, HHD-3	\$66.12

# 118844

#### **BEARING**



#### **IMPELLER**



118431



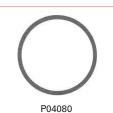
Part No.	Description	Use with	Price
118431	Impeller, 2.75" diameter, brass	Series 100	\$120.06
118435	Impeller, 3.31" diameter, brass	1 1/4", 1 1/2" [old]	\$426.30
118436	Impeller, 3.375" diameter, brass	HV, 1 1/4", 1 1/2", 2"[old]	\$295.80
118612	Impeller, 4.25" diameter, brass	PR	\$635.10
118668	Impeller, 3 375" diameter, steel	HV, 2" [old]	\$243.60
118675	Impeller, 4.25" diameter, steel	HD-3	\$504.60
118629	Impeller, 5.25" diameter, steel	Series 60	\$635.10
189128	Impeller, 3.375" diameter, NFI	HV, 2"	\$196.62
189132	Impeller, 2.75" diameter, NFI	Series 100	\$50.46



#### **MOTOR**



Part No.	HP	Voltage	RPM	Use with	Price
111034	1/12	115/1/60	1725	Series 100	\$704.70
111061	1/6	115/1/60	1725	PR, 1 1/2", 2", HV [old]	\$1,035.30
111031	1/6	115/1/60	1725	PR, 1", 1 1/4", 1 1/2", 2", HV	\$991.80
111040	1/4	115/1/60	1725	2 1/2", LD-3	\$1,653.00
111042	1/3	115/230/1/60	1725	HD-3	\$2,105.40



#### **GASKET-SEAL KIT**

Pumps that use 1/2" seal include Series 100, HV, 2", PR, 2 1/2", LD-3, HD-3, PD-35, PD-37,60"AA", 1522, 1", 1 1/4",1 1/2", 2"



Part No.	Description	Use with	Price
P04080	Body Gasket, 2 3/4"ID x 3"OD	Series 100	\$5.66
P04890	Body Gasket, 3 1/2"ID x 3 3/4"OD	(B&G)1", 1 1/4", 1 1/2", 2", HV[old and new]	\$5.40
P05800	Body Gasket, 4 1/4"ID x 4 3/4"OD	2 1/2", LD-3,HD-3,PR	\$8.70
P48690	Body gasket	80, 1510, 1531	\$31.32
P57410	Body Gasket, 5 1/4"ID x 5 1/2"OD	PD-35,PD-37,60"AA", 1522, MF60(5 1/4, 6 1/4" impellers)	\$5.48
P57700	Body Gasket, 7 5/64"ID x 7 27/32"OD	60″A″	\$10.44
P58542	Adapter Ring Gasket	Series 60	\$5.48
118129	Flange gasket set	2 1/2", LD-3,HD-3,PD-35,PD- 37,PD-38,PD-40,PD-39,MF60 3 x 5 1/4, PL130	\$38.28
118351	Flange gasket set	Series 100 [obsolete], 1"	\$38.28
118368	Flange gasket set	Series 100, LR, PL30,PL36,PR, 60AA 1, 1 1/4", PL55, 1 1/4"	\$14.36
118373	Flange gasket set	PL45,PL50,HV[new and old],1 1/2", 60A 1 1/2", 60AA 1 1/2"	\$31.32
118378	Flange gasket set	2", 60 AA, 60 A, MF60, PL-75, PL-130	\$38.28
118680	Seal kit less seat insert	1/2" seal pumps	\$53.94
118681	Seal kit 7	1/2" seal pumps	\$73.08
186681	Seal kit 6	All S/H 2-5 Series Pumps	\$177.48
186499	Seal kit	PD-38,PD-39,PD-40, 60"A", 60 2 1/2F	\$287.10

110251

#### **FLANGE**

Cast iron flange - use with aco circulators and competing models with 2 5/8" bolt centers.



Part No.	FPT (In.)	Price
110251	3/4	\$28.20
110252	1	\$28.20
110253	1 1/4	\$28.20
110254	1 1/2	\$28.20



#### **FLANGE, SERIES 100**

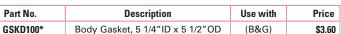
Flanges for use with Bell & Gossett and competing booster pumps with 2 5/8" bolt centers.

- Shipped 2 to a package with bolts and nuts
- 34B and 1B are bronze flange



Part No.	FPT (In.)	Price
34FLG	3/4	\$33.60
34BFLANG	3/4	\$33.60
1FLG	1	\$33.60
1BFLG	1	\$72.80
114FLG	1 1/4	\$33.60
112FLG	1 1/2	\$33.60

#### **GASKET-SEAL KIT**





#### **CHECK VALVE**

#### **Honeywell** Home

Part No.	Size (In.)	Cutoff GPM	Use with	Price
PCV100	1	34.0	PC3F1558IUF00	\$10.26

## **FLANGE, HV SERIES**



1HVFLG



Part No.	FPT (In.)	Price
1HVFLG	1	\$33.60
114HVFLG	1 1/4	\$33.60

## 41413W

## THE ISOLATOR® WITH ROTATING FLANGE AND MULTI-FUNCTION DRAIN

Full port forged brass uni-flange ball valve with detachable rotating flange, multi-function drain, adjust able packing gland, nuts and bolts 360° flange rotation and the capability t

purge from either side of the pump. Install these valves at any degree of rotation necessary for your specific installation

- · Unique uni-body design is preserved
- Fully removable outer flange secured by snap rin
- · Multi-function drain
- 3-Way valve purges before or after the pump
- 600 WOG, ISO 9001



	Connecti		
Part No.	Size (In.)	Туре	Price
41413W	3/4	FPT	\$67.78
51413W	3/4	Sweat	\$67.78



## THE ISOLATOR® UNI-FLANGE BALL VALVE

Full port forged brass ball valve with adjustable packing gland, bonus wing style "T" handle, nuts and bolts

- · Unique uni-body design
- Blowout proof stem
- · Adjustable packing gland
- Conical inlet to minimize turbulence
- · Slotted holes for high velocity pumps
- Fits virtually every circulator pump
- 600 WOG, ISO 9001



	Connect		
Part No.	Size (In.)	Туре	Price
40403W	3/4	FPT	\$45.44
40404W	1	FPT	\$54.84
40405W	1 1/4	FPT	\$65.20
50403W	3/4	Sweat	\$45.44
50404W	1	Sweat	\$54.84
50405W	1 1/4	Sweat	\$65.20

#### **HYDRONIC SPECIALTY**



#### **EXPANSION TANK**

A diaphragm-type expansion tank that is pre-pressurized with a standard charge of 12 psi. Welded-steel construction and its diaphragm is a rugged, flexible, long life material that keeps system water and air separate.

- Fill-Trol tank accepts automatic fill/pressure reducing check valve 109076
- Install into T or air purging device
- Maximum working pressure: 100 psi
- Maximum temperature: 240°F
- System capacity at 30 psi relief, 40-70°F fill temperature, 12 psi fil pressure
- Connection: 1/2" MPT
- Tank air charge is adjustable



Part No.	Туре	Tank - Accep- tance Volume (Gal.)	System Capacity (Gal.)	Height (In.)	Ship Wgt (Lbs.)	Price
15T	Extrol	2.0/1.0	29	12 5/8	5	\$66.16
109133	Fill-trol	2.0/1.0	29	12 5/8	5	\$163.02
30T	Extrol	4.4/2.5	64	15 1/2	9	\$71.64
110002	Fill-trol	4.4/2.5	64	15 1/2	9	\$197.10
60T	Extrol	7.6/2.5	87	23	10.85	\$109.16



#### FILL-TROL® VALVE

Use with 100000 Series Fill-trol tank to provide pressure reducing automatic system fill to tank charge. Wit tank, regulates water expansion and minimum system pressure. Check valve prevents backflo.

Part No.	Description	Ship Wgt (Lbs.)	Price
109076	Fill-Trol® Valve	0.78	\$124.80



#### **FILL-TROL PACKAGE**

Combination package includes Fill-trol tank and valve, air purger and automatic air vent model 700C.



Part No.	Tank Model	Purger model	Line Size (In.)	Ship Wgt (Lbs.)	Price
109P11/4	109133	444PV	1 1/4	10	\$334.00
110P11/4	110002	444PV	1 1/4	12.75	\$370.00



## EXPANSION TANK PRO SERVICE VALVE™

Full port forged brass ball valve with hi-flow hose drain.

Designed for residential or light commercial use with water or oil. Allows for isolation and draining of an expansion tank in a closed loop

hydronic heating system. It is actuated by a blowout proof stem and features an adjustable packing gland. Threaded ends.

#### Webstone VALVE INNOVATION

	Connection			
Part No.	Size (In.)	Туре	Ship Wgt (Lbs.)	Price
41672W	1/2	FIP x MIP x FIP x Hose	0.87	\$44.00



## THE ISOLATOR® E-X-P SERVICE VALVE. LEAD FREE

Tankless water heater service valve kit that includes hot and cold set of full port forged brass ball valves with hi-flo drains, pressure relieft valve outlet (150 PSI / 200,000 btu) and adjus table packing gland. This kit is compatible

with all tankless water heaters that have 3/4" NPT hot/cold water outlets.

- · Lead free
- 304 Stainless steel wing handle for easy actuation of the main ball
- Color coded insulator rings for easy identification of hot and cold valves
- Aluminum handle for easy actuaion of the drain ball

W	e	h	S	h	Ti	A	
	Y	AII	VE I	NN	OVA	TIO	

Part No.	Size (In.)	Туре	Price
50443WPR	3/4	IPS Union x SWT	\$268.58





#### THE ISOLATOR® E-X-P E2™ SERVICE VALVE, LEAD FREE

Compact version of the original E-X-P. Tankless water heater service valve kit that includes hot and cold set of full port forged brass ball valves with hi-flo drains, pressure relieft valve outlet and adjustable packing gland. This kit

is compatible with all tankless water heaters that have 3/4" NPT hot/cold water outlets.

#### Kit includes:

- Residential presure relief valve (150 PSI / 200,000 btu)
- Hot water valve, red: 3/4" IPS Valve x 3/4" IPS Union x 3/4" Hose Drain Valve x 3/4" IPS Outlet for pressure relief valve (hose drain cap included)
- Cold water valve, blue: 3/4" IPS Valve x 3/4" IPS Union x 3/4" hose drain valve (hose drain cap included)
   44043PR and 4443WPR have a lead free cleanbrass construction.

  Webstone

	Connection		
Part No.	Size (In.)	Туре	Price
44043PR	3/4	IPS Union x IPS	\$166.10
44443WPR	3/4	IPS Union x IPS	\$173.74



## HYDRO-CORE NEAR BOILER COMPONENT KIT

#### Includes:

- · Connection fittings (2
- Rotating flange "Y" strainer (1
- Union connection with 1/4" plugged NPT gauge port Requires matching Hydro-Core manifold

FS Series: floor standing, side mount ki FT Series: floor standing, top mount ki

#### Webstone VALVE INNOVATION

	Connection		
Part No.	Size (In.)	Туре	Price
FS185	1 1/4	MIP	\$356.84
FT144	1	FIP	\$205.54
FT344	1	FIP	\$152.12

#### **HYDRONIC SPECIALTY**



#### **BOILER TRIM PACKAGE**

Combo welded tank kit, equipped with butyl diaphragms to separate the air from the system water. Pre-pressurized at 12 psi, the tank keeps fluids circ lating and maintains minimum system pressure. Honeywell tanks resist waterlogging, loss of pressure through

relief valve spills, loss of BTUs and reduce circulator running time. Use the super efficient Honeywell Super ent or air vents to remove air and micro-bubbles from the system for maximum performance. The Honeywell expansion tank maintains pressure in the system and utilizes the smallest possible space.

- Includes: welded diaphragm tank (TK300-30), SuperVent air and micro-bubble eliminator, and 1/2" boiler fill valve/backflo assembly (FM911).
- Maximum temperature: 240°F
- Maximum working pressure: 100 psi

#### **Honeywell** Home

Part No.	Tank Model	Purger model	Line Size (In.)	Ship Wgt (Lbs.)	Price
TK30PV100FM	TK300-30	PV100	1	16	\$503.16
TK30PV125FM	TK300-30	PV125	1 1/4	18.25	\$518.52

## Honey well Air pureers

#### **AIR PURGE VALVE**

• Tapped 1/8" for automatic air vent and 1/2" for expansion tank

#### **Honeywell** Home

Part No.	Connection Size (In.)	Ship Wgt (Lbs.)	Price
AP400	1	2.38	\$71.10
AP401	1 1/4	4.1	\$71.10
AP402	1 1/2	8.5	\$160.58



#### **AIR SCOOP**

Provides complete, continuous purging and venting of air in the hot water heating system when installed in conjunction with any 1/2" outlet tank and 1/8 MPT float vent

- Maximum pressure: 125 psi
  Maximum temperature: 275°F
- Connection: FPT inlet/outlet, 1/8" FPT for float vent and 1/2" FPT for expansion tan



Part No.	Connection Size (In.)	Ship Wgt (Lbs.)	Price
AS1	1	4	\$60.44
AS114	1 1/4	2	\$60.44



113055

#### **AIR VENT, MANUAL**

Manual air vent with coin/screwdriver actuating slot.

- Maximum working pressure: 150 psig
- Maximum operating temperature: 240°F
- · Low profil



**Bell & Gossett** 

	Connection		
Part No.	Size (In.)	Туре	Price
113055	1/8	MPT	\$10.24



#### **AIR VENT, AUTOMATIC**

Vents air from closed heating systems.

 Maximum operating temperature: 240°F



Bell & Gossett

	Connectio			
Part No.	Size (In.)	Туре	Height (In.)	Price
113001	1/8	FPT	4 1/16	\$124.36
113020	1/8	MPT	3 3/16	\$72.16
113021	1/2 FPT, 3/4 MPT	MPT/FPT	4 3/4	\$167.36



#### **AIR VENT, AUTOMATIC**

Provides automatic air venting for hot or cold water distribution systems. Purges air that may be in the water system.

- Float is high temperature-resistant polyethylene.
- Suitable for use with glycol systems
- Maximum working temperature: 240°F
- Minimum working pressure: 1.45 psi
- Maximum working pressure: 150 psi



	Connection		
Part No.	Size (In.)	Туре	Price
FV418	1/8	MPT	\$23.74
FV414	1/4	MPT	\$24.76



## PRESSURE RELIEF VALVE, 174A

- · For hot water heating and supply boilers
- Pressure protection only
- 174A: Bronze body construction resists corrosive water conditions
- 374A: Iron body with forged bronze inlet
- . Connection: FPT x FPT



	Connection					
Part No.	Size (In.)	Туре	Height (In.)	Capacity (BTUH)	Ship Wgt (Lbs.)	Price
374A3430	3/4	FPT x FPT	3 5/8	550,000	0.5	\$112.60
174A1	1	FPT x FPT	5 3/4	1,005,000	2.2	\$391.70



#### **PRESSURE RELIEF VALVE, 740 SERIES**

- For hot water heating boiler pressure protection
- · Expanded outlet drain
- Offers greater discharge capacity than comparable competitive models
- Pressure setting: 30 psi
- Iron body construction



Part No.	Height (In.)	Capacity (BTUH)	Ship Wgt (Lbs.)	Price
740	5 7/8	925,000	1.86	\$222.74
7401	7 1/4	1,300,000	3.7	\$368.26
740114	8 3/4	2,105,000	5.19	\$598.34
740112	9 1/4	2,900,000	8.35	\$780.30
7402	11 5/8	5,250,000	16	\$1,225.84

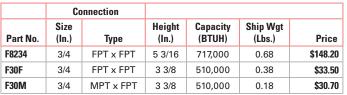


#### **SAFETY RELIEF VALVE**

Compact and economical pressure only safety relief valves for use on hot water space heating boilers, water supply heaters and storage tanks. Designed for use on hot water service only and are NOT to be used on steam.

F-82: bronze body, silicone seat disc and stainless steel pressure springs. F-30: all brass body, brass internal parts, a silicone seat disc and a stainless steel pressure spring

- · Listed by ASME
- Completely automatic and reseat after pressure relief CASH ACME
- Pressure setting: 30 psi





FV180

#### **AIR VENT, AUTOMATIC**

- MPT air vent for water systems
- · Solid brass body and cover, high temperature polypropylene floa
- Maximum operating pressure: 150 psi

#### **Honeywell** Home

	Connection		
Part No.	Size (In.)	Туре	Price
FV180	1/8	MPT	\$23.36



#### **SUPERVENT**<sup>TM</sup>

Purges air through a no clog vent assembly that controls dirt and debris to minimize air vent fouling.

- 360 degree adjustable collar ring for installation flexibilit .
- · Stainless steel concentrator which eliminates gurgling noise.
- Bronze body for rigid construction.
- Max. operationg pressure: 125 psi

#### **Honeywell** Home

	Connec	tion			
Part No.	Size (In.)	Туре	Flow (Cv)	Height (In.)	Price
PV075S	3/4	Sweat	13.0	6 29/32	\$192.38
PV100	1	FPT	22.0	6 1/2	\$207.28
PV100S	1	Sweat	22.0	6 1/2	\$207.28
PV125	1 1/4	FPT	38.0	7 27/32	\$281.04
PV125S	1 1/4 nom.	Sweat	38.0	7 27/32	\$279.68
PV150	1 1/2	FPT	50	9 5/32	\$382.88
PV200	2	FPT	95	10 9/32	\$475.92
PVU100	1	FPT	22.0	6 1/2	\$218.62
PVU075	3/4	FPT	3.6	6 1/2	\$180.00
PVU100	1	FPT	22.0	6 1/2	\$21



#### AIR VENT, LOW PRESSURE **MAINS**

- For use on hot or cold or glycol water mains and process applications with specific gravity greater than 0.7
- Tapped at top for 1/8" NPT safety drain connection for discharging moisture
- Removable top
- Built-in check valve
- 1/2" NPT female and 3/4" NPT male straight shank
- Maximum operating pressure 75 psig (5.2 bar)\*
- Maximum hydrostatic pressure 200 psig (13.8
- Maximum temperature 250°F (121°C)



	Conne		
Part No.	Size (In.)	Price	
79	1/2F (3/4M)	FPT x MPT	\$253.34

#### **HYDRONIC SPECIALTY**



#### PRESSURE-ONLY RELIEF VALVE

Designed specifically for the protection of hot w ater supply systems where over-pressure conditions are likely to occur as a result of thermal expansion. The valve may be installed directly on the tank or in a tee and is appropriate for either side (hot or cold) of the water heater.

- Bronze body, brass and stainless steel internal parts, a silicone seat disc and a stainless steel pressure spring
- Listed by ASME
- Completely automatic and reseat after pressure relief CASH ACME
- Pressure setting: 125 psi



	Connection					
Part No.	Size (In.)	Туре	Height (In.)	Capacity (BTUH)	Ship Wgt (Lbs.)	Price
FWL234	3/4	MPT x FPT	3 3/8	500,000	0.36	\$25.90



## TEMPERATURE/PRESSURE RELIEF, 40 SERIES

For hot water supply tanks and heaters.

- · Bronze body construction
- Tamper-resistant bonnet screws
- Connection: MPT inlet x FPT outlet
- Temperature setting: 210°F
- Pressure setting: 150 psi

### WATTS

Part No.	Con- nection Size (In.)	Pressure Setting (psig)	Valve Height (In.)	Tank Inser- tion (In.)	Capac- ity AGA (Btuh)	Price
40XL5	3/4	150	5 5/8	5	200000	\$249.84
40XL4	1	150	6 1/4	4	500000	\$321.26
3422	2 x 1 1/2	150	9 3/4	3	1150000	\$4,661.46



#### **ASME RELIEF VALVE**

Designed to protect fired and unfir hot water pressure vessels against overpressure conditions. The diaphragm's oversized effective area generates a greater operating force which helps to overcome the effects of fouling. Valves feature a unique fail-safe

disc with sufficient area to permit the valves to maintain their safet relief function in the event of a diaphragm rupture.

- · Bronze construction
- Pressure setting: 30 psi



	Connection				
Part No.	Size (In.)	Туре	Height (In.)	Ship Wgt (Lbs.)	Price
110121	3/4	FPT	4 9/16	1.23	\$222.64
110129	1	FPT	4 15/16	1.5	\$345.46



#### REDUCING/RELIEF VALVE

Combination of reducing valve and relief valve. Set at 12 psig supply pressure and 30 psig relief.

- 110197 has fast fill featur
- Connection: 1/2" NPT



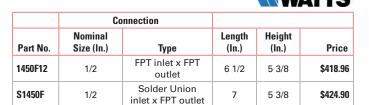
**Bell & Gossett** 

	Composition					
Part No.	Relief	Reducer	Length (In.)	Height (In.)	Ship Wgt (Lbs.)	Price
110199	Iron	Brass	6 7/16	5 3/8	4.04	\$225.70
110197	Brass	Brass	6 7/16	5 3/8	3.75	\$330.10



#### **REGULATOR/RELIEF ASSEMBLY**

- Used on boiler feed lines to provide make up water to the system
- Maximum pressure: 100 psi
- Maximum temperature: 212°F
- · Regulator set: 15 psi
- Adjustment range: 10-25 psi
- Combines features of 1156F and rugged iron body diaphragm relief valve (set to 30 psi).





#### PRESSURE REDUCING VALVE

Protects heating and plumbing systems against excessive line pressures. Equipped with low inlet pressure check valve and removable strainer.

- Maximum flow: 5 1/2 to 6 GPM 125 psig inlet
- Brass construction
- 110192 is fast fil



	Co	nnection				
Part No.	Size (In.)	Туре	Pressure Setting (psig)	Adjustable Range	Height (In.)	Price
B38BG	1/2	FPT	12	10 to 25	4 13/16	\$139.72
B38TU	1/2	FPT/Sweat	12	10 to 25	4 13/16	\$168.90
B712BG	3/4	FPT	12	10 to 25	4 31/32	\$208.82
110194	1/2	FPT	45	25 to 60	4 13/16	\$159.68
110195	3/4	FPT	45	25 to 60	4 31/32	\$225.70



#### **FEED WATER REGULATOR**

For use in commercial and residential hydronic heating systems to fill th boiler and piping system with water, and to maintain water pressure in the system at all times. It also provides make-up water to the system in the event of system leaks. Includes a tight

seating check valve, purge lever for manual purging, and a stainless steel strainer.

• Maximum Pressure: 100psi



	Co	nnection			
Part No.	Size (In.)	Туре	Length (In.)	Height (In.)	Price
1156F	1/2	FPT inlet x FPT outlet	3 1/2	5 3/8	\$170.24
SB1156F12	1/2	Solder Union inlet x FPT outlet	4 1/8	5 3/8	\$129.20



#### **POPPET PRESSURE RELIEF**

. Connection: MPT inlet x FPT outlet



**WATTS** 

		Connection			
Part No.	Size (In.)	Туре	Height (In.)	Ship Wgt (Lbs.)	Price
3L34	3/4	MPT inlet x FPT outlet	3 1/2	0.6	\$58.66



#### PRESSURE REGULATOR/ BYPASS, LEAD FREE

For supply water pressures up to 300 lbs. Can be adjusted from 25 to 75 lbs. The standard setting is 50 lbs. The bypass feature incorporated into these valves accurately controls build-up of system pressure and thermal expansion

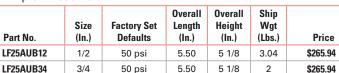
by equalizing the system and supply pressure when relief setting is in excess of available supply main pressure.

• Maximum temperature: 160°F

· Bronze body

• Connection: FPT union inlet x FPT outlet

• LF prefix: lead fre





#### STEAM PRESSURE REGULATOR

For autoclaves, steam tables/irons, vulcanizers and single radiators.

- Iron body
- Initial pressures up to 200 psi
- Connection:

FPT x FPT



	Con	nection			
Part No.	Size (In.)	Туре	Height (In.)	Pressure Range (psi)	Price
152A34	3/4	FPT x FPT	8 5/8	3 to 15	\$2,033.20



#### **BOILER FILL VALVE**

Pressure regulating valve for auto - matic control of boiler feed water and other pressure reducing applications. Especially constructed for expansion tank mounting.

- · Fast fill featur
- · Built in check valve
- Connection Type: NPT
- Pipe Size: 1/2"
- Maximum Ambient Temperature: 212°F

#### **Honeywell** Home

Part No.	Pressure Range (psi)	Description	Price
FM911	4 to 60	1/2" NPT Backflow preventer and boiler fill valve assembl , includes union nut and both sweat and NPT tailpiece	\$202.74



## DIFFERENTIAL PRESSURE CONTROL VALVE

Used to eliminate excessive pump thread (pressure) when most radiator valves are closed due to reduced demand. The differential pressure regulator controls flow through a bypas line between supply and return sides

of a hydronic specialty heating system. The control valve maintains a constant differential pressure between the two sides by allowing flow through the bypass whenever the difference between the supply and the return exceeds the setpoint.

- · Provides silent, trouble-free service
- · Easy installation; requires no electrical hookup
- Easy adjustment of pressure by turning regulating cap
- Built-in differential pressure indicator
- Brass valve body with thermoplastic and stainless steel parts
- Diaphragm of EPDM

#### **Honeywell** Home

	Connection				
Part No.	Size (In.)	Туре	Adjustment Range (psi)	Height (In.)	Price
D146M1032	3/4	Angle Type, FPT	0 - 17	6 1/4	\$269.72
D146M1040	1 1/4	Angle Type, FPT	0 - 17	8 1/2	\$527.64

# HEATING ACCESSORIES

#### HYDRONIC SPECIALTY



#### **BACKFLOW PREVENTER**

A double check backflow preventer with an intermediate vacuum breaker designed to prevent the backflow of contaminated water into the potable water supply. Designed for the use on small supply lines, it protects against both backflow and back siphonage for

continuous pressure applications.

It is ideal for boiler feed lines, livestock drinking fountains, trailer park water hook-ups, laboratory equipment and numerous other applications. Suitable for either cold or hot water service, the BP900 is designed for non-continuous backflow temperatures up to 250°F (121°C) and working supply pressures up to 175 psi (1207 kPa).

- · All bronze casting with brass connection.
- · All working parts are stainless steel
- Stainless steel screen to protect seals.
- Approved by A.S.S.E. Standard 1012.

#### **Honeywell** Home

Part No.	Connection Size (In.)	Length (In.)	Price
BP900	1/2	4 7/8	\$80.58



#### **BACKFLOW PREVENTER**

A backflow preventer specially mad for low fl w supply lines. Its purpose is to prevent the flow of polluted water back into the safe drinking water supply. Particularly recommended for residential boiler feed lines to prevent backflow when supply pressure falls below

heating system pressure. Suitable for use under continuous pressure.

- Suitable for either hot or cold water service
- Bronze body construction with stainless steel working parts
- Durable rubber diaphragm and disc
- Suitable for working supply pressures up to 175 psi
- Emergency backflow temperatures up to 250°
- · Minimum pressure required: 25 psi



Part No.	rt No. Connection Size (In.)		Price
9DS12	1/2 S	2 17/32	\$156.00
9D12	1/2 FPT	2 17/32	\$156.00
9DS34	3/4 Sweat	2 3/4	\$156.00



## BACKFLOW PREVENTER/FILL VALVE

Used on boiler supply feed lines to provide make-up water to the boiler and prevent backflow when suppl pressure falls below system pressure. An assembly of Watts 9D back flo preventer and 1156F feed water pressure regulator.

• Connection: solder union x FPT

• Maximum pressure: 100 psi

- Maximum temperature: 212°F
- Boiler fill valve set at 15 ps
- Adjustable range: 10-25 psi

	AIIJ	
Height (In )	Price	

Part No.	Connection Size (In.)	Length (In.)	Height (In.)	Price
911S12	1/2	8 1/2	5 1/4	\$238.96



## FLOAT AND THERMOSTATIC STEAM TRAPS, H SERIES

- Feature Universal 4 port tappings, (2 inlets, 2 outlets) that provide versatility to allow easy piping and system monitoring
- Stainless steel internal components
- · Resistant to water hammer and corrosion
- Below condensate level seat design prevents steam leakage
- · Rugged thermostatic element eliminates air binding
- Maximum body design pressure: 250 psig
- Maximum operating pressure 175 psig
- Maximum temperature: 406°F



Part No.	Connection Size (In.)	Length (In.)	Height (In.)	Ship Wgt (Lbs.)	Price
404200	3/4	6 1/2	5 19/32	11.7	\$460.62
404220	1 1/4	6 1/2	5 19/32	11.7	\$703.20



#### **VACUUM BREAKER**

Designed to protect closed vessels and piping systems against collapse when the induced vacuum exceeds design conditions. When used on steam heating systems, the No. 26 vacuum breaker controls induced vacuum, permitting normal return of condensate

to the boiler. Adjustable range: 1/4" to 20" (mercury).

Maximum working pressure: 150 psig



Part No.	Connection Size (In.)	Price
113075	1/8	\$214.96



#### **FLOW BALANCER**

An indicating flow meter and balancing device for measuring and balancing hydronic circuits. Installed in each circuit of a system, it permits simple balancing to meet design flo conditions.

· Capacity: 2 to 10 GPM • Working pressure: 125 psig

• Maximum operating temperature: 250°F



	Connection			
Part No.	Size (In.)	Туре	Length (In.)	Price
TB1	1	FPT	9 1/4	\$629.50



#### **FLOW CONTROL VALVE**

For preventing gravity flow in forced ho water systems and to permit summerwinter operation of indirect water heaters.



#### Bell & Gossett

Part No.	Connection Size (In.)	Length (In.)	Height (In.)	Ship Wgt (Lbs.)	Price
SA114	1 1/4	4	6 1/2	4	\$188.86
SA112	1 1/2	5	7 1/4	8	\$307.08
SA-2	2	6 7/8	7 1/2	12	\$568.10
A212	2 1/2	7 1/4	7 5/8	20	\$1,282.04



#### FLOW CONTROL VALVE, HYDROTROL™

Used to prevent over-heating of zones due to gravity flow in hydronic heating systems and will permit summer-winter operation of indirect water heater.

 Maximum working pressure: 150 psi • Maximum operating temperature: 250°F

· Valve can be installed to discharge in any direction



#### **Bell & Gossett**

Part No.	Connection Size (In.)	Length (In.)	Height (In.)	Ship Wgt (Lbs.)	Price
HT34	3/4	3	3 3/16	1.4	\$107.48



0792037

#### **VACUUM BREAKER, LEAD FREE**

- · Vacuum breakers are designed to protect against the back-siphonage of contaminated water into the potable water supply
- For health hazard crossconnections not subject to continous pressure
- Install 6" above highest downstream point of water
- Maximum temperature 180°F at 125 psi working pressure
- Connection: FPT x FPT
- Plain brass finis
- 079 are lead free



Part No.	Connection Size (In.)	Price
0792037	3/8	\$88.46
0792038	1/2	\$82.66



• Temperature: 120-160 °F

## TEMPERING VALVE, LEAD FREE

Hot water extender tempering valves for residential installations, mixes cold and hot water to extend capacity of water heater, storage tanks and hot water boiler tankless heaters.

- · Connection: solder
- · Lead free



Part No.	Connection Size Nominal (In.)	Length (In.)	Price
LF70A12	1/2	3 3/4	\$184.32



## **SILENT CHECK VALVE**

- Bronze construction
- Teflon seat and brass dis
- Install in a horizontal or vertical position
- Pressure rating: 15 psi steam; 400 psi WOG
- . Connection: FPT x FPT



Part No.	Connection Size (In.)	Ship Wgt (Lbs.)	Price
60034	3/4	0.75	\$98.18
6001	1	1.3	\$134.04

#### **HYDRONIC SPECIALTY**



#### **TEMPERING VALVE**

Accurately adjusts, maintains and limits the hot water temperature to a desired setting selected by the user. In domestic water applications it offers scalding protection and bacteria growth control.

- Dual purpose mixing or diverting valves.
- Constant water temperature under changing operating conditions.
- Flow reduction in seconds if cold water supply is interrupted
- Maximum pressure 150 psi (1034 kPa)
- Temperature 100 to 145°F
- Designed for easy maintenance and element replacement. Teflo ® coated to prevent mineral build-up and extend life.
- · Connection: union sweat

#### **Honeywell** Home

Part No.	Connection Size Nominal (In.)	Price
AM100US1	1/2	\$216.72
AM101US1	3/4	\$217.80



#### DIRECTCONNECT™ THERMOSTATIC MIXING VALVE

- . Installs in as little as 15 minutes
- Excellent temperature stability and control
- · Effectively minimizes scalding risk to building occupants
- Mixing valve and cold water tee both connect directly to water heater; flexible stainless steel connector joins the cold water tee directly to the cold inlet port of the mixing valve
- Fits virtually all water heaters up to 1" (all necessary adapters
- Constant water temperature under different operating conditions
- Proportional valve (control of hot and cold water)
- Flow reduction in seconds if cold water supply is interrupted
- Includes 3/4" ASSE 1017 mixing valve, 3/4" cold water tee, and 11" SS flex connecto
- Temperature adjustable with easy "Push-Twist-Release" locking hand wheel design
- Operating temperature: 100° to 212°F (hot water inlet), 33° to 80°F (cold water inlet)
- · Maximum pressure: 150 psi
- Valve capacity: 2.1 Cv

#### Honeywell Home

Part No.	Pipe Size (In.)	Price
AMX302T	1	\$340.76



#### 2-WAY FLOW CHECK

For forced hot water heating systems to provide positive gravity shut-off when circulator is not running. One connection can be used for the installation of an expansion tank when installed at angle check.

· Maximum pressure: 50 psi

· Connection: FPT



		i i	
Part No.	Connection Size Nominal (In.)	Ship Wgt (Lbs.)	Price
200034F	3/4	3	\$143.60
20001F	1	3	\$144.46
2000114F	1 1/4	4.98	\$198.24



#### **DIELECTRIC UNION, LEAD FREE**

Supplied with GA gaskets suitable for water, air, oil, natural gas, gasoline, propane, kerosene, mineral oil and alkalies.

• Protects against destructive effect of galvanic and stray current corrosion

- For residential, commercial and industrial applications
- Connection: FPT x solder
- 000 are lead free



Part No.	Connection Size Nominal (In.)	Length (In.)	Price
0009864	1/2	1 7/8	\$29.80
0009865	3/4	2 1/8	\$29.80
0009866	1	2 1/2	\$53.10



#### **TEST PLUG**

Allows for quick, efficient and accurat testing of hydronic pipe lines throughout HVAC systems. Consistently rated at 1000 psi. The self-sealing core insures long life and continuous service.

· Brass body and cap

• Neoprene (red cap) for natural gas

· Connection: MPT



Part No.	Plug Size (In.)	Price
BP25NP*	1/4	\$6.46







Part No.	Description	Price
RADIATORKEY	Radiator Valve Stem Key	\$1.86

#### **WATER FEEDER**



#### **ELECTROMECHANICAL**

A low-cost, efficient, and reliable ele tromechanical water feeder designed to maintain a minimum operating level in small steam boilers as controlled by the low water cut-off. Adding water on demand automatically, the 101A keeps the boiler operating during

periods when the cut-off might otherwise stop the burner, providing an extra precaution against overheating should the fuel regulators fail. This electric water feeder is intended to provide automatic fill o small, low pressure steam boilers in residential and light commercial applications.

. Max. water pressure: 150 lbs. • Max. steam pressure: 25 lbs. • Max. boiler size: 5000 sq. ft. • Connection: 1/2" FPT



Part No.	Voltage	Use with	Price
101A24	24	Gas Boiler	\$1,139.00
101A120	120	Oil Boiler	\$867.00



#### **ELECTRONIC/MECHANICAL**

These water feeders use modern electronic circuitry in conjunction with a solenoid valve to maintain a minimum operating level in low pressure steam boilers. Designed to compliment the new McDonnell & Miller PS 800 Series probe type low water cut-offs.

Supplies 2 GPM

• Max. boiler size: 500,000 BTUH • Max. water pressure: 150 psi • Max. boiler pressure: 15 psi • Max. water temperature: 175°F • Connection: 3/8" FPT



Part No.	Voltage	Price
WFU224	24	\$620.50
WFU2120	120	\$620.50



#### **MECHANICAL**

Maintains predetermined water levels and provides low water control. Designed to provide control for boilers above 5000 sq. ft. capacity

- Maximum boiler pressure: 35 psi
- Maximum supply water pressure: 150 psi
- . Use with 2 switch for low water cut-off
- Connection: 3/4" FPT

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#### **MECHANICAL**

For small steam and hot water boilers with high supply needs.

- Hvdraulically activated switch
- · Automatically adds water when boiler level drops below minimum operating level.
- Maximum boiler pressure: 30 psi
- Maximum supply water pressure: 150 psi
- . Connection: 1" FPT
- · Use with 2 switch for low water cut-off

www.	McDonnell & Miller

Part No.	Description	Price
247	Water Feeder	\$1,470.50



#### **CUT-OFF SWITCH**

Used to add electrical low water cut-off to mechanical water feeder. Has high voltage terminals for low water cut-off and for low water alarm.

- Use with model 47, 247, 51, 52, 53
- Contact rating: 5.1 F.L. amps 240 Vac



Part No.	Description	Price
2	Cut-off switch, automatic	\$306.00

# 63

#### **MECHANICAL**

Designed to protect hot water boilers and steam boilers against the hazards of a low water condition.

- Use on steam boilers carrying pressures up to 50 psi
- Use on all boiler sizes
- Connection size: 1"
- · Uses model 2 switch



Part No.	Description	Price
63	Low Water Cut-off	\$1,045.50

## RB24E

## ELECTRONIC SWITCH, LOW PRESSURE

Used to add electrical low water cut-off to mechanical water feeder.

- For residential applications
- Compact size
- . Easy to install and wire
- Automatic reset feature resumes operation after a power outage when water is on probe
- Indicates power on and low water
- Maximum ambient temperature 120°F (49°C)
- Maximum water pressure 50 psi (3.5 kg/cm)
- 3' harness cable included



Part No.	Description	Price
RB24E	Guard Dog, 24V	\$251.60



### MECHANICAL QUICK HOOK-UP



Part No.	Description	Price
67	Low Water Cut-off	\$773.50
11MM	Replacement Switch	\$357.00



#### **PUMP CONTROL**

Mounted at the boiler water line, it starts and stops the pump as the boiler level itself dictates—not according to the rate at which condensate accu mulates in the receiver. Consequently it holds the boiler water level between the limits recommended by the boiler

manufacturer to maintain maximum steaming efficienc .

• Can be used as liquid level control on tanks or other vessels



Part No.	Switch	Price
150S	Snap Action	\$1,530.00



## ELECTRONIC SWITCH, HIGH PRESSURE

Used to add electrical low water cut-off to mechanical water feeder.

- For residential and (where codes allow) commercial applications
- Electronic operation
- · Easy to install and wire
- Red low water indicating LED
- Green power indicating LED
- · No blow down required
- 15,000 ohms probe sensitivity
- Maximum ambient temperature 120°F (49°C)
- Maximum water temperature 250°F (121°C)
- Maximum water pressure 160 psi (11.2 kg/cm)



Part No.	Description	Price
RB122	Guard Dog, 120V	\$251.60