

Phillips®

REFRIGERATION

VALVES • VESSELS • SYSTEMS • CONTROLS

H. A. Phillips & Co.
770 Enterprise Avenue
DeKalb, IL 60115
Phone: 630-377-0050
www.haphillips.com

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Effective August 4, 2025
Supersedes all previous List Prices

LIST PRICES

WITH SIZES & MODEL NUMBERS

All prices shown are U.S. dollars and are subject to change without notice.
All prices shown are F.O.B. factory.

<u>PRODUCT TYPE</u>	<u>PAGE NO.</u>
Level Eyes® (Liquid Level Sight Glasses)	2
Injectors (Liquid Recirculating)	2
Flat Column Cap (Threaded for Probe)	2
Float Switch (Electromagnetic)	2
Pressure Gauges (Liquid Filled)	2
Filters/Strainers	2
Flanges & Flanged Unions	3
Water Testing Apparatus	3
High Side Float Valves & Pilot Operated Float Controls	4
Three-Way Valves (Solenoid Operated)	5
Check Valves (Disc Type and Piston Type)	5 - 6
Oil Float Valves (High Side and Low Side)	7
Low Side Float Valves & Pilot Operated Float Controls	7 - 9
Part Kits	10 - 11
Replacement Parts	12-14
RMA Policy & Limited Product Warranty	15
Terms and Conditions of Sale	16

Please consult factory for pricing on the following products:
Oil Pots, Level Eye® Columns, ASME Pressure Vessels, Liquid Return Systems,
Gas Pressure Recirculation Systems, Mechanical Pump Recirculation Systems,
PUR Air Purgers and Anhydrator System Cleaners

LEVEL EYE® (LIQUID LEVEL SIGHT GLASSES)

REF: BULLETIN VB-25E-01

Square-End Weld Housings						Threaded Housings - 1-1/2" MPT					
Part No. w/Reflex Lens	Length In.	List Price	Part No. w/Clear Lens	Length In.	List Price	Part No. w/Reflex Lens	Length In.	List Price	Part No. w/Clear Lens	Length In.	List Price
1100-R	2"	\$206	1100	2"	\$229	1100AT-R	3"	\$267	1100AT	3"	\$290
1100-RN	2"	\$258	1100-N	2"	\$281	1100AT-RN	3"	\$319	1100AT-N	3"	\$342
1100-RNX	2"	\$285	1100-NX	2"	\$308	1100AT-RNX	3"	\$346	1100AT-NX	3"	\$369
1100A-R	3"	\$232	1100A	3"	\$255	1100T-R	4"	\$306	1100T	4"	\$329
1100A-RN	3"	\$284	1100A-N	3"	\$307	1100T-RN	4"	\$358	1100T-N	4"	\$381
1100A-RNX	3"	\$311	1100A-NX	3"	\$334	1100T-RNX	4"	\$385	1100T-NX	4"	\$408
1100L-R	4"	\$268	1100L	4"	\$291	1100V-R †	2"	\$483	1100V †	2"	\$506
1100L-RN	4"	\$320	1100L-N	4"	\$343	1100V-RN †	2"	\$535	1100V-N †	2"	\$558
1100L-RNX	4"	\$347	1100L-NX	4"	\$370	1100V-RNX †	2"	\$562	1100V-NX †	2"	\$585

† 2" MPT

Stainless Steel, Square-End Weld Housing						Carbon Steel, Saddle-Milled Weld Housing					
Part No. w/Reflex Lens	Length In.	List Price	Part No. w/Clear Lens	Length In.	List Price	Part No. w/Reflex Lens	Length In.	List Price	Part No. w/Clear Lens	Length In.	List Price
1100S-R	2"	\$516	1100S	2"	\$539	1100C-R	2"	\$222	1100C	2"	\$245
1100S-RN	2"	\$568	1100S-N	2"	\$591	1100C-RN	2"	\$274	1100C-N	2"	\$297
1100S-RNX	2"	\$595	1100S-NX	2"	\$618	1100C-RNX	2"	\$301	1100C-NX	2"	\$324
1100LS-R	4"	\$634	1100LS	4"	\$657	1100LC-R	4"	\$284	1100LC	4"	\$307
1100LS-RN	4"	\$686	1100LS-N	4"	\$709	1100LC-RN	4"	\$336	1100LC-N	4"	\$359
1100LS-RNX	4"	\$713	1100LS-NX	4"	\$736	1100LC-RNX	4"	\$363	1100LC-NX	4"	\$386

Stainless Steel, Saddle Milled Weld Housing					
Part No.	Length In.	List Price	Part No.	Length In.	List Price
1100SC-R	2"	\$532	1100SC	2"	\$555
1100SC-RN	2"	\$584	1100SC-N	2"	\$607
1100SC-RNX	2"	\$611	1100SC-NX	2"	\$634
1100LSC-R	4"	\$650	1100LSC	4"	\$673
1100LSC-RN	4"	\$702	1100LSC-N	4"	\$725
1100LSC-RNX	4"	\$729	1100LSC-NX	4"	\$752

NOTE: Specify refrigerant type when ordering Level Eyes to ensure gasket compatibility

PTFE gaskets are standard. Neoprene and Buna N available.

3" PROBE-READY COLUMN CAP

(Flat beveled cap, w/3/4" threaded hole)

Part No.	List Price
3-3061	\$106

FLOAT SWITCHES

(SS Chamber)

Part No.	List Price
HAPSS	\$1,689
HAPSS-1*	\$2,273
REPLACEMENT SWITCH ASSY	
HAPSW†	\$893
INTERNAL FLOAT SWITCH	
HAP85	\$2,288

*Level Eye welded on chamber

†includes DIN connection

GAUGES

1/4" MPT, LIQUID FILLED

AMMONIA, w/TEMP SCALE	
30"-150 psi, 2-1/2" Dia.	
88-020	\$138
30"-300 psi, 2-1/2" Dia.	
88-021	\$138
30"-150 psi, 4" Dia.	
88-024	\$207
30"-300 psi, 4" Dia.	
88-025	\$207
GENERIC, NO TEMP SCALE	
30"-150 psi, 2-1/2" Dia.	
88-026	\$187
30"-400 psi, 2-1/2" Dia.	
88-027	\$187

LEVEL EYE TAP

(For chasing worn/crossed threads)

LEVEL EYE TAP*	\$1,250
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* Also available for lease - contact factory

LEVEL EYE TORQUE TOOL

(Stainless Steel, fits 1/2" drive)

Part No.	List Price
LEVELEYETOOL	\$240

FILTERS/STRAINERS

REF: BULLETIN VB-25E-01

Filter Number	List Price	w/IPS flanges*
510-1/2" FPT angle	\$305	-
510-3/4" FPT angle	\$305	-
575-3/4" FPT angle	\$619	-
575-1" FPT angle	\$619	-
575-1-1/4" FPT angle	\$619	-
S701JRP, 1/2" or 3/4"	\$443	\$585
S701, 1"	\$443	\$622
S701A, 2"	\$962	\$1,220
S701B, 3"	\$1,635	\$1,955

*ODC flanges are also available. Consult factory for pricing

NOTES:

- 510 and 575 filters are zinc plated.
- The S701 filters mate with series 700 and 701 valves. Gasket, Nuts & Bolts included.
- Flanges: Socket Weld standard, threaded available except for S701B. Gaskets, Nuts & Bolts included.

ORDERING INSTRUCTIONS:

- Injector Number
- Nozzle & throat size
- Refrigerant
- Inlet pressure & temperature
- Suction temperature
- Load (tons)
- Application

FLANGES								
REF: BULLETIN VB-25E-01								
Size	Socket Weld		Threaded		Weld Neck		Union Kits*	
	Part No.	List Price	Part No.	List Price	Part No.	List Price	Part No.	List Price
1/2" oval	4-MS or 4-FS	\$64	4-MT or 4FT	\$75	N/A	-	KF075	\$14
3/4" oval	6-MS or 6-FS	\$64	6-MT or 6FT	\$75	N/A	-	KF075	\$14
1" oval	8-MSO or 8-FSO	\$66	8-MTO or 8-FTO	\$78	N/A	-	KFO100	\$14
1" sq.	8-MS or 8-FS	\$80	8-MT or 8-FT	\$92	N/A	-	KF125	\$19
1-1/4" sq.	10-MS or 10-FS	\$80	10-MT or 10FT	\$92	10-MW or 10-FW	\$217	KF125	\$19
1-1/2" sq.	12-MS or 12-FS	\$115	12-MT or 12-FT	\$138	12-MW or 12-FW	\$286	KF150	\$19
2" sq.	16-MS or 16-FS	\$115	16-MT or 16-FT	\$138	16-MW or 16-FW	\$290	KF200	\$28
2-1/2" sq.	20-MS or 20-FS	\$132	N/A	-	20-MW or 20-FW	\$330	KF250	\$48
3" sq.	24-MS or 24-FS	\$135	N/A	-	24-MW or 24-FW	\$371	KF300	\$50
4" sq.	32-MS or 32-FS	\$155	N/A	-	32-MW or 32-FW	\$463	KF400	\$60
5" rd.	40-MS or 40-FS	\$409	N/A	-	40-MW or 40-FW	\$770	KF500	\$98
5" rd. York	40-MSY or 40-FSY	\$426	N/A	-	40-MWY or 40-FWY	\$787	KF500Y	\$98
6" rd.	48-MS or 48-FS	\$457	N/A	-	48-MW or 48-FW	\$888	KF600	\$98
6" rd. York	48-MSY or 48-FSY	\$474	N/A	-	48-MWY or 48-FWY	\$905	KF600Y	\$98
8" rd.*	64-MS or 64-FS	\$2,000	N/A	-	64-MW or 64-FW	\$2,245	KF800	\$100
10" rd.*	80-MS or 80-FS	\$1,300	N/A	-	80-MW or 80-FW	\$1,669	KF1000	\$134

ORDERING INSTRUCTIONS:

1. Flange Connection Type
2. Flange Size
3. Male or Female

*There is limited number of 8" and 10" flanges
 Remaining stock will not be replaced

UNION KIT INCLUDES:

Gasket + required # of nuts & bolts to make a flanged union set

FLANGED UNIONS TONGUE & GROOVE						
REF: BULLETIN VB-25E-01						
Size	Socket Weld		Threaded		Weld Neck	
	Part No.	List Price	Part No.	List Price	Part No.	List Price
1/2" oval	U-4S	\$142	U-4T	\$164	N/A	-
3/4" oval	U-6S	\$142	U-6T	\$164	N/A	-
1" oval	U-8SO	\$146	U-8TO	\$170	N/A	-
1" sq.	U-8S	\$179	U-8T	\$203	N/A	-
1-1/4" sq.	U-10S	\$179	U-10T	\$203	U-10W	\$453
1-1/2" sq.	U-12S	\$249	U-12T	\$295	U-12W	\$591
2" sq.	U-16S	\$258	U-16T	\$304	U-16W	\$608
2-1/2" sq.	U-20S	\$312	N/A	-	U-20W	\$708
3" sq.	U-24S	\$320	N/A	-	U-24W	\$792
4" sq.	U-32S	\$370	N/A	-	U-32W	\$986
5" rd.	U-40S	\$916	N/A	-	U-40W	\$1,638
5" rd. York	U-40SY	\$950	N/A	-	U-40WY	\$1,672
6" rd.	U-48S	\$1,012	N/A	-	U-48W	\$1,874
6" rd. York	U-48SY	\$1,046	N/A	-	U-48WY	\$1,908
8" rd.*	U-64S	\$4,100	N/A	-	U-64W	\$4,590
10" rd.*	U-80S	\$2,734	N/A	-	U-80W	\$3,472

ORDERING INSTRUCTIONS:

1. Union Connection Type
2. Union Size

FLANGED UNIONS INCLUDE:

(1) male flange, (1) female flange, (1) union kit

WATER TESTING APPARATUS		
REF: BULLETIN ANW-SB17-01		
Part No.	Description	List Price
ANH-MS	Moisture Sampling Flask, graduated 100ml capacity	\$222
ANH-AS	Sampling stand kit, incl. (1) ANH-MS, stand, feed/vent assy, storage case	\$1,406

SERIES 700H PILOT OPERATED VALVES WITH SERIES 275AP FIXED LEVEL PILOT FLOAT VALVES

REF: BULLETIN VB-25E-01

Valve Number	Flange Conns.. IPS-THD. or Socket, ODC (copper connectors)	Pilot Operated 700H Valve Zinc Plated (Standard)			add for Weld Neck Flanges	Model 275AP and 275APF Fixed Level Pilot Float Valve Zinc Plated (Standard)			add for Pilot Line Kit (See note)
		with Flanges	w/ Flanged Strainer	Valve Only		with Cast Ch.	with Steel Ch.	Valve Only	

FOR USE WITH AMMONIA (R717)

700JRH	1/2", 3/4", 1"	\$1,423	\$1,866	\$1,281	\$274	\$1,181	\$2,559	\$749	\$336
700XH	1", 1 1/4"	\$1,556	\$1,999	\$1,377	\$274	\$1,181	\$2,559	\$749	\$336
700AXH	1 1/2", 2"	\$2,382	\$3,344	\$2,124	\$350	\$1,181	\$2,559	\$749	\$336
700BXH	3" **	\$3,671	\$5,306	\$3,351	\$472	\$1,181	\$2,559	\$749	\$336

FOR USE WITH HALOCARBONS

700JRH	1/2", 3/4", 1" (IPS)	\$1,423	\$1,866	\$1,281	\$274	\$1,350	\$2,728	\$918	\$547
	1 1/8", 1 3/8" (ODC)	\$1,743	\$2,186	\$1,281	N/A	\$1,350	\$2,728	\$918	\$547
700XH	1", 1 1/4" (IPS)	\$1,556	\$1,999	\$1,377	\$274	\$1,350	\$2,728	\$918	\$547
	1 5/8" (ODC)	\$1,956	\$2,399	\$1,377	N/A	\$1,350	\$2,728	\$918	\$547
700AXH	1 1/2", 2" (IPS)	\$2,382	\$3,344	\$2,124	\$350	\$1,350	\$2,728	\$918	\$547
	2 1/8" (ODC)	\$2,751	\$3,713	\$2,124	N/A	\$1,350	\$2,728	\$918	\$547
700BXH	3" (IPS)**	\$3,671	\$5,306	\$3,351	\$472	\$1,350	\$2,728	\$918	\$547
	3 1/8" (ODC)	\$4,123	\$5,758	\$3,351	N/A	\$1,350	\$2,728	\$918	\$547

NOTE: Pilot Line Kit for 1/4" pipe: **PLK-1/4 \$336 LIST**

For 3/8" tube: **PLK-3/8 \$547 LIST**

Kit includes angle valve, gauge valve, pressure gauge and fittings

ORDERING INSTRUCTIONS:

For Pilot Valve:

- Pilot Operated Valve Number
- Orifice Size
- Metering Plug
- Spring
- Flange Size, Type
- Strainer (if required)
- Serial Number, if replacement

For Pilot Float Valve:

- Orifice Size
- Chamber requirements

*Available 1" SW or FPT flanges, add **\$16 LIST**

** Socket weld or weld neck only

FOR FACTORY SELECTION ASSISTANCE, ADVISE:

- Refrigerant
- Upstream and downstream pressures
- Capacity
- Degrees liquid subcooling

HIGH SIDE FLOAT VALVES SERIES 270A

REF: BULLETIN VB-25E-01

Valve Number	Valve w/ Chamber		Valve Only (Zinc Plated)
	Cast	Steel	
FOR USE WITH AMMONIA (R717)			
270A	\$1,141	\$2,519	\$709
270AX	\$1,905	\$3,283	\$1,473
270AY	\$2,568	\$3,946	\$2,136
270AZAZ	N/A	N/A	\$1,036
FOR USE WITH HALOCARBONS			
270AF	\$1,141	\$2,519	\$709
270AXF	\$1,905	\$3,283	\$1,473
270AYF	\$2,568	\$3,946	\$2,136
MOUNTING FLANGE (FOR SERIES 270A) 2-1/2" SOCKET WELD			
Flange Number		List Price	
298A		\$179	

HIGH SIDE CONTROL PACKAGE 700H & 275AP VALVES W/ ACCESSORIES

Control Package	Standard Items*	with Pressure Regulator and extra Service Valves
FOR USE WITH AMMONIA (R717)		
RC-050	\$5,927	\$7,151
RC-075	\$5,986	\$7,238
RC-100	\$6,230	\$7,482
RC-125	\$6,451	\$7,703
RC-150	\$8,211	\$9,463
RC-200	\$8,509	\$10,123
RC-250	\$9,240	\$11,704
RC-300	\$11,795	\$14,649
RC-400	\$12,488	\$16,207

* Includes (1) 275AP valve and steel chamber with Level Eye, pilot line kit, 700H valve, service valves and hand expansion bypass valve. See Bulletin WP-24E-01.

ORDERING INSTRUCTIONS:

Same as above for Pilot Valve and Pilot Float Valve.

**THREE-WAY VALVES
SERIES 3000
REF: BULLETIN VB-25E-01**

Valve Number	List Price (Zinc Plated)
3000N-3/4"	\$3,082
3000AN-1-1/4"	\$4,278

NOTE: Optional Pilot Light Coil, Add \$54

ORDERING INSTRUCTIONS:

1. Voltage
2. Hertz

**CHECK VALVES: IN-LINE DISC TYPE
SERIES 600**

REF: BULLETIN VB-25E-01

Valve Number	Flange Conn's. I.P.S.; THD. or Socket	Valve w/ Flanges	add for Weld Neck Flanges	Valve Only
CAST BODY - TYPE FORMERLY MANUFACTURED BY WOLF LINDE				
600JR	1/2", 3/4", 1"¥	\$378	\$274	\$236
600J	1 1/4" 1 1/2"	\$528	\$342	\$279
600AJ	1 1/2", 2"	\$738	\$350	\$480
600BJ*	3"	\$1,316	\$472	\$996
600DJ*	4"	\$1,916	\$616	\$1,546
ALL STEEL BODY				
600K*	1", 1 1/4"	\$603	\$274	\$424
600AK*	1 1/2", 2"	\$811	\$350	\$553

* Gravity drain - add suffix 'S' if Heavy Spring is required (e.g. 600AKS).

ORDERING INSTRUCTIONS:

¥Available 1" SW or FPT flanges, add **\$16 LIST**

1. Valve Number
2. Flange Size, Type

**CHECK VALVES: IN-LINE PISTON TYPE, FLANGED
SERIES 700X**

REF: BULLETIN VB-25E-01

Valve Number	Flange Connections: IPS Threaded or Socket; ODC Copper	Valve w/ IPS Flanges	add for Weld Neck Flanges	Valve W/ ODC Flanges	Valve Only (Zinc Plated as Standard)	Close-Coupled Strainer Option*
700JRX	1/2", 3/4", 1" (IPS) 1 1/2", 1 3/4" (ODC)	\$696	\$274	\$1,016	\$554	S701JRP
700X	1", 1 1/4" (IPS) 1 1/2" (ODC)	\$865	\$274	\$1,265	\$686	S701
700AX	1 1/2", 2" (IPS) 2 1/2" (ODC)	\$1,330	\$350	\$1,699	\$1,072	S701A
700BX	3" (IPS) 3 1/2" (ODC)	\$1,936	\$472	\$2,388	\$1,616	S701B

*Close-coupled strainers available. See page 2 for strainer pricing

*Available 1" SW or FPT flanges, add **\$16 LIST**

ORDERING INSTRUCTIONS:

1. Valve Number
2. Spring Differential (2, 5, 10, 20, 35, 50, 60, and 70 lbs.)
3. Flange Size and Type
4. Valve Serial Number, if Replacement

**CHECK VALVES, GAS POWERED (PILOT OPERATED)
(GAS POWER TO CLOSE - SPRING TO OPEN)
SERIES 700S**

REF: BULLETIN VB-25E-01

Valve Number	Flange Connections: IPS Threaded or Socket; ODC Copper	Valve w/ IPS Flanges	add for Weld Neck Flanges	Valve w/ ODC Flanges	Valve Only (Zinc Plated as Standard)	Close-Coupled Strainer Option*
700JRS	$\frac{1}{2}$ ", $\frac{3}{4}$ ", $1\frac{1}{4}$ " (IPS) $1\frac{1}{8}$ ", $1\frac{3}{8}$ " (ODC)	\$798	\$274	\$1,118	\$656	S701JRP
700XS	1", $1\frac{1}{4}$ " (IPS) $1\frac{1}{8}$ " (ODC)	\$956	\$274	\$1,356	\$777	S701
700AXS	$1\frac{1}{2}$ ", 2" (IPS) $2\frac{1}{8}$ " (ODC)	\$1,444	\$350	\$1,813	\$1,186	S701A
700BXS	3" (IPS)** $3\frac{1}{8}$ " (ODC)	\$2,022	\$472	\$2,474	\$1,702	S701B

*Close-coupled strainers available. See page 2 for strainer pricing

*Available 1" SW or FPT flanges, add **\$16 LIST**

** 3" Flanges not available threaded

ORDERING INSTRUCTIONS:

1. Valve Number
2. Flange Size, Type

NOTE: No spring requirement necessary to order

**CHECK VALVES: THREE WAY
(SPRING TO OPEN - GAS FLOW TO ACTUATE)
SERIES 700T**

REF: BULLETIN CV-700-T-67

Valve Number	Flange Connections: IPS Threaded or Socket; ODC Copper	Valve w/ IPS Flanges	add for Weld Neck Flanges	Valve w/ ODC Flanges	Valve Only (Zinc Plated as Standard)	Close-Coupled Strainer Option*
700XT	1", $1\frac{1}{4}$ " (IPS) $1\frac{1}{8}$ " (ODC)	\$1,064	\$274	\$1,464	\$885	S701
700AXT	$1\frac{1}{2}$ ", 2" (IPS) $2\frac{1}{8}$ " (ODC)	\$1,817	\$350	\$2,186	\$1,559	S701A
700BXT	3" (IPS)** $3\frac{1}{8}$ " (ODC)	\$2,783	\$472	\$3,235	\$2,463	S701B

*Close-coupled strainers available. See page 2 for strainer pricing

** 3" Flanges not available threaded

ORDERING INSTRUCTIONS:

1. Valve Number
2. Flange Size and Type

**INTERRUPTING VALVES
(FOR PHILLIPS TYPE DC TRANSFER SYSTEMS)
SERIES 700T**

REF: BULLETIN CV-700-T-67

Valve Number	Flange Connections: IPS Threaded or Socket; ODC Copper	Valve w/ IPS Flanges	add for Weld Neck Flanges	Valve w/ ODC Flanges	Valve Only (Zinc Plated as Standard)	Close-Coupled Strainer Option*
700AP	$1\frac{1}{2}$ ", 2" (IPS) $2\frac{1}{8}$ " (ODC)	\$1,701	\$350	\$2,070	\$1,443	S701A
700BP	3" (IPS)** $3\frac{1}{8}$ " (ODC)	\$2,601	\$472	\$3,053	\$2,281	S701B

*Close-coupled strainers available. See page 2 for strainer pricing

** 3" Flanges not available threaded

ORDERING INSTRUCTIONS:

1. Valve Number
2. Flange Size and Type

LOW SIDE FLOAT VALVES FIXED LEVEL - DIRECT FEED (INTERNAL MOUNT) SERIES 300H REF: BULLETIN VB-25E-01				
Valve Number	List Price (Zinc Plated)		Valve Number	List Price (Zinc Plated)
FOR USE WITH AMMONIA (R717)			FOR USE WITH HALOCARBONS	
300H	\$1,240		300HF	\$1,293
300HD	\$1,269		300HDF	\$1,322
300HM	\$1,275		300HMF	\$1,328
300HMD	\$1,302		300HMDF	\$1,355
300A	\$1,644		300AF	\$1,710
300AM	\$1,700		300AMF	\$1,766

Note: Valves can be applied as pilots for Series 701 Pilot Operated Valves. Add \$1589 for 398A Steel Chamber

LOW SIDE FLOAT VALVES FIXED LEVEL - REMOTE FEED (INTERNAL MOUNT) SERIES 301H REF: BULLETIN VB-25E-01	
Valve Number	List Price (Zinc Plated)
FOR USE WITH AMMONIA (R717)	
301H	\$2,288
301A	\$2,317
FOR USE WITH HALOCARBONS	
301HF	\$2,420

LOW SIDE FLOAT VALVES FIXED LEVEL - REMOTE FEED (EXTERNAL MOUNT) SERIES 301E REF: BULLETIN VB-25E-01		
Valve Number	Valve Only (Zinc Plated)	Valve w/ Chamber
FOR USE WITH AMMONIA (R717)		
301E	\$1,244	\$2,833
301G	\$1,488	\$3,077
301J	\$1,778	\$3,367
301K	\$1,836	\$3,425
FOR USE WITH HALOCARBONS		
301EF	\$1,297	\$2,886
301GF	\$1,541	\$3,130
301JF	\$1,831	\$3,420

MOUNTING FLANGES (FOR SERIES 300 & 301)	
Flange Number	List Price
399 (3" F.P.T.)	\$187
300WF3 (3" S.W.)	\$224

SPECIAL APPLICATION	
Valve Number	Valve Only (Zinc Plated)
300WAXF	\$1,678
300WCB	\$1,361

OIL FLOAT VALVES

LOW SIDE OIL FEED VALVE (FOR ALL REFRIGERANT OILS) SERIES 275 REF: BULLETIN VB-25E-01			
Valve Number	Valve w/Chamber		Valve Only (Zinc Plated)
	Cast	Steel	
275AF	\$1,129	\$2,507	\$697
MOUNTING FLANGE 2-1/2" SOCKET WELD			
Flange Number		List Price	
298A		\$179	

ORDERING INSTRUCTIONS:

1. Valve Number
2. Orifice Size
3. With or without chamber
4. Mounting flanges #298A (if required)
5. Valve Serial Number, if replacement

HIGH SIDE OIL DRAIN VALVE (FOR ALL REFRIGERANT OILS) SERIES 270A REF: BULLETIN VB-25E-01			
Valve Number	Valve w/Chamber		Valve Only (Zinc Plated)
	Cast	Steel	
270A	\$1,141	\$2,519	\$709
MOUNTING FLANGE 2-1/2" SOCKET WELD			
Flange Number		List Price	
298A		\$179	

Note: Standard orifice is 3/32" and will operate with a pressure drop of 250 PSI maximum.

LOW SIDE FLOAT VALVES (ADJUSTABLE LEVEL - REMOTE FEED)

SERIES 101

REF: BULLETIN VB-25E-01

Valve Number	Valve Only (Zinc Plated)	Valve w/ Chamber
FOR USE WITH AMMONIA (R717)		
101	\$2,238	\$4,435
101A	\$2,488	\$5,330
FOR USE WITH HALOCARBONS		
101F	\$2,285	\$4,482
101AF	\$2,582	\$5,424

+ See below for ordering instructions

LOW SIDE FLOAT VALVES

SERIES 101

SPECIAL APPLICATIONS

REF: BULLETIN VB-25E-01

Valve Number	Valve Only (Zinc Plated)
FOR USE WITH AMMONIA (R717)	
101CPS	\$2,652
FOR USE WITH HALOCARBONS	
101CPSF	\$2,686

PILOT OPERATED VALVE WITH LOW SIDE ADJUSTABLE LEVEL PILOT FLOAT VALVES

REF: BULLETIN VB-25E-01

FOR USE WITH AMMONIA (R717)

701S Pilot Operated Valve								101 Pilot Float Valve		
Pilot Operated Valve	Series 701 Port	Strainer	Available Connections IPS - Thd. or Socket, ODC (Copper Connectors)	with Flanges	w/ Flanged Strainer	Valve Only (Zinc Plated)	add for W.N. Flgs.	Valve and Orifice Size (in.)	with Chamber	Valve Only (Zinc Plated)
701JRS	3/8", 9/16"	S701JR	1/2", 3/4", 1"	\$1,485	\$1,928	\$1,343	\$274	101VP18 - 3/32"	\$4,435	\$2,238
701S	9/16", 23/32"	S701	1", 1 1/4"	\$1,618	\$2,061	\$1,439	\$274	101VP18 - 3/32"	\$4,435	\$2,238
701AS	7/8", 23/32"	S701A	1 1/2", 2"	\$2,528	\$3,490	\$2,270	\$350	101VP26 - 1/8"	\$5,330	\$2,488
701BS	1 1/4"	S701B	3" (SW or WN)	\$4,705	\$6,340	\$4,385	\$472	101VP26 - 5/32"	\$5,330	\$2,488
701BXS	1 9/16"	S701B	4" (Weld Neck)	\$5,670	\$7,305	\$4,878	N/A	101VP26 - 3/16"	\$5,330	\$2,488

FOR USE WITH HALOCARBONS

701S Pilot Operated Valve								101 Pilot Float Valve		
Pilot Operated Valve	Series 701 Port	Strainer	Available Connections IPS - THD. or Socket, ODC (Copper Connectors)	with Flanges	w/ Flanged Strainer	Valve Only (Zinc Plated)	add for W.N. Flgs.	Valve and Orifice Size (in.)	with Chamber	Valve Only (Zinc Plated)
701JRSF	3/8", 9/16"	S701JR	1/2", 3/4" (IPS), 1"	\$1,485	\$1,928	\$1,343	\$274	101VPF18 - 3/32"	\$4,482	\$2,285
			1 1/8", 1 3/8" (ODC)	\$1,805	\$2,248	\$1,343	N/A		\$4,482	\$2,285
701SF	9/16", 23/32"	S701	1", 1 1/4"	\$1,618	\$2,061	\$1,439	\$274	101VPF18 - 3/32"	\$4,482	\$2,285
			1 5/8" (ODC)	\$2,018	\$2,461	\$1,439	N/A		\$4,482	\$2,285
701ASF	7/8", 23/32"	S701A	1 1/2", 2" (IPS)	\$2,528	\$3,490	\$2,270	\$350	101VPF26 - 1/8"	\$5,424	\$2,582
			2 1/8" (ODC)	\$2,897	\$3,859	\$2,270	N/A		\$5,424	\$2,582
701BSF	1 1/4"	S701B	3" (IPS) SW or WN	\$4,705	\$6,340	\$4,385	\$472	101VPF26 - 5/32"	\$5,424	\$2,582
			3 1/8" (ODC)	\$5,157	\$6,792	\$4,385	N/A		\$5,424	\$2,582
701BXS	1 9/16"	S701B	4" (Weld Neck)	\$5,670	\$7,305	\$4,878	N/A	101VPF26 - 3/16"	\$5,424	\$2,582

*Available w/ 1" SW or FPT flanges, add \$16 LIST

NOTE: Pilot Line Kit available for 1/4" pipe PLK-1/4, \$336; for 3/8" tubing PLK-3/8, \$547

Kits include angle valve, pressure gauge, gauge valve and fittings

ORDERING INSTRUCTIONS:

For Pilot Operated Valve:

- Pilot Operated Valve Number
- Orifice Size
- Metering Plug
- Spring
- Flange Size, Type
- Strainer (if required)
- Valve Serial No., if replacement

For Pilot Float Valve:

- Float Valve Number
- Orifice Size
- Left or Right hand +
- Chamber requirements
- Valve Serial No., if replacement

For Pilot Kit: 1. Voltage 2. Hertz

FOR FACTORY SELECTION ASSISTANCE, ADVISE:

- Refrigerant
- Upstream and downstream pressures
- Capacity
- Degrees liquid subcooling

+ Left Hand Flow (LHF): Arrow  on Valve Body

+ Right Hand Flow (RHF): Arrow  on Valve Body

**LOW SIDE FLOAT VALVES
FIXED LEVEL - REMOTE FEED
(EXTERNAL MOUNTING)
SERIES 301E**

REF: BULLETIN VB-25E-01

Valve Number	Valve Only (Zinc Plated)	Valve w/ Chamber
FOR USE WITH AMMONIA (R717)		
301E	\$1,244	\$2,833
301G	\$1,488	\$3,077
301J	\$1,778	\$3,367
301K	\$1,836	\$3,425
FOR USE WITH HALOCARBONS		
301EF	\$1,297	\$2,886
301GF	\$1,541	\$3,130
301JF	\$1,831	\$3,420

**PILOT OPERATED VALVE WITH
LOW SIDE FIXED LEVEL PILOT FLOAT VALVE**

FOR USE WITH AMMONIA (R717)

701S Pilot Operated Valve								301 Pilot Valve			
Pilot Operated Valve	Series 701 Port	Strainer	Available Connections	with Flanges	w/ Flanged Strainer	Valve Only (Zinc Plated)	add for W.N. Flgs.	Pilot Float Valve	Pilot Valve Orifice	301 Pilot Valve	
			IPS - THD. or Socket, ODC (Copper Connectors)							with Chamber	Valve Only (Zinc Plated)
701JRS	$\frac{3}{8}$ " $\frac{9}{16}$ "	S701JR	$\frac{1}{2}$ " $\frac{3}{4}$ " 1" *	\$1,485	\$1,928	\$1,343	\$274	301E	$\frac{3}{32}$ " $\frac{1}{8}$ "	\$2,833	\$1,244
701S	$\frac{9}{16}$ " $\frac{23}{32}$ "	S701	1" $\frac{1}{4}$ "	\$1,618	\$2,061	\$1,439	\$274	301E	$\frac{3}{32}$ " $\frac{1}{8}$ "	\$2,833	\$1,244
701AS	$\frac{7}{8}$ " $\frac{23}{32}$ "	S701A	$\frac{1}{2}$ " 2"	\$2,528	\$3,490	\$2,270	\$350	301E	$\frac{1}{8}$ "	\$2,833	\$1,244
701BS	1 $\frac{1}{4}$ "	S701B	3" (SW or WN)	\$4,705	\$6,340	\$4,385	\$472	301G	$\frac{5}{32}$ "	\$3,077	\$1,488
701BXS	1 $\frac{9}{16}$ "	S701B	4" (Weld neck)	\$5,670	\$7,305	\$4,878	N/A	301J	$\frac{3}{16}$ "	\$3,367	\$1,778

FOR USE WITH HALOCARBONS

701S Pilot Operated Valve								301 Pilot Valve			
Pilot Operated Valve	Series 701 Port	Strainer	Available Connections	with Flanges	w/ Flanged Strainer	Valve Only (Zinc Plated)	add for W.N. Flgs.	Pilot Float Valve	Pilot Valve Orifice	301 Pilot Valve	
			IPS - THD. or Socket, ODC (Copper Connectors)							with Chamber	Valve Only (Zinc Plated)
701JRSF	$\frac{3}{8}$ " $\frac{9}{16}$ "	S701JR	$\frac{1}{2}$ " $\frac{3}{4}$ " 1" (IPS) *	\$1,485	\$1,928	\$1,343	\$274	301EF	$\frac{3}{32}$ " $\frac{1}{8}$ "	\$2,886	\$1,297
			1 $\frac{1}{8}$ " 1 $\frac{3}{8}$ " (ODC)	\$1,805	\$2,248	\$1,343	N/A			\$2,886	\$1,297
701SF	$\frac{9}{16}$ " $\frac{23}{32}$ "	S701	1" $\frac{1}{4}$ " (IPS)	\$1,618	\$2,061	\$1,439	\$274	301EF	$\frac{3}{32}$ " $\frac{1}{8}$ "	\$2,886	\$1,297
			$\frac{5}{8}$ " (ODC)	\$2,018	\$2,461	\$1,439	N/A			\$2,886	\$1,297
701ASF	$\frac{7}{8}$ " $\frac{23}{32}$ "	S701A	$\frac{1}{2}$ " 2" (IPS)	\$2,528	\$3,490	\$2,270	\$350	301EF	$\frac{1}{8}$ "	\$2,886	\$1,297
			2 $\frac{1}{8}$ " (ODC)	\$2,897	\$3,859	\$2,270	N/A			\$2,886	\$1,297
701BSF	1 $\frac{1}{4}$ "	S701B	3" (IPS) SW or WN	\$4,705	\$6,340	\$4,385	\$472	301GF	$\frac{5}{32}$ "	\$3,130	\$1,541
			$\frac{3}{8}$ " (ODC)	\$5,157	\$6,792	\$4,385	N/A			\$3,130	\$1,541
701BSXF	1 $\frac{9}{16}$ "	S701B	4" (Weld Neck)	\$5,670	\$7,305	\$4,878	N/A	301JF	$\frac{3}{16}$ "	\$3,420	\$1,831

*Available with 1" SW or FPT flanges, add \$16 LIST

NOTE: Pilot Line Kit available for 1/4" pipe PLK-1/4, \$336; for 3/8" tubing, \$547

Kits include angle valve, pressure gauge, gauge valve and fittings

ORDERING INSTRUCTIONS:

For Pilot Operated Valve:

1. Pilot Operated Valve Number
2. Orifice Size
3. Metering Plug
4. Spring
5. Flange Size, Type
6. Strainer (if required)
7. Valve Serial No., if replacement

For Pilot Float Valve:

1. Float Valve Number
2. Orifice Size
3. Chamber requirement
4. Valve Serial No.,
if replacement

For Pilot Kit: 1. Voltage 2. Hertz

FOR FACTORY SELECTION ASSISTANCE, ADVISE:

1. Refrigerant
2. Upstream and downstream pressures
3. Capacity
4. Degrees liquid subcooling

PART KITS & CONTENTS REFERENCE	
K101AB	152B & 153B Seat & Plunger; 1103 Gasket; 73 Gasket; 5AB45 Spring
K101ABF	152B & 153B Seat & Plunger; 1103 Gasket; 73 Gasket; 705A114 Spring
K101B	152B & 153B Seat & Plunger; 1103 Gasket; 73 Gasket; 705A Spring
K101BF	152B & 153B Seat & Plunger; 1103 Gasket; 73 Gasket; 705A114 Spring
K152K	152KCP Cartridge; 19 Gasket; 63 Gasket; 5-2A Spring
K152K26	152KCP Cartridge; 19 Gasket; 63 Gasket; 5-30A Spring
K152KCP	152KCP Cartridge; 19 Gasket; 63 Gasket; 5-30A Spring
K152KCPF	152KCP Cartridge; 19 Gasket; 63 Gasket; 5-60L Spring
K152KF18	152KCP Cartridge; 19 Gasket; 63 Gasket; 5-30 Spring
K152KF26	152KCP Cartridge; 19 Gasket; 63 Gasket; 5-60L Spring
K152L	152L Cartridge; 19 Gasket; 63 Gasket; 5-30A Spring (orifice up to 3/8"; 5-4 Spring with 13/32")
K152L18	152LCP Cartridge; 19 Gasket; 63 Gasket; 5-2A Spring
K152LCP	152LCP Cartridge; 19 Gasket; 63 Gasket; 5-30A Spring
K152LCPF	152LCP Cartridge; 19 Gasket; 63 Gasket; 5-60L Spring
K152LF	152L Cartridge; 19 Gasket; 63 Gasket; 5-61 Spring
K152LF18	152L Cartridge; 19 Gasket; 63 Gasket; 5-30A Spring
K210	310 Cartridge; 308 pusher; 725 Gasket
K210A	310A Cartridge; 308A Pusher; 725 Gasket
K270A1	310A Cartridge; 308A Pusher; 725 Gasket
K270A2	262A & 263A Seat & Needle; 73 Gasket; 224 Hex Jam Nut; 55 Washer; 411 Pin; 11S Spacers
K270AX	262A & 263A Seat & Needle; 73 Gasket; 224 Hex Jam Nut; 55 Washer; 411 Pin; 11S Spacers
K270AY	262AY & 263AY Seat & Needle; 73 Gasket; 224 Hex Jam Nut; 55 Washer; 411 Pin; 11S Spacers
K270AZ	262AZ & 263AZ Seat & Needle; 73 Gasket; 224 Hex Jam Nut; 55 Washer; 411-S Pin; 11S Spacers
K275AP1	262 & 403S Seat & Needle; 73 Gasket; 224 Hex Jam Nut; 55 Washer; 411 Pin; 11S Spacers
K275AP2	262A & 263A Seat & Needle; 73 Gasket; 224 Hex Jam Nut; 55 Washer; 411 Pin; 11S Spacers
K280	280 Cartridge; 19 Gasket
K280-6	280-6 Cartridge; 19 Gasket
K310	310 Cartridge; 308 Pusher; 19 Gasket; 365 Gasket
K310A	310A Cartridge; 308A Pusher; 365 Gasket
K355	355 Cartridge; 365 Gasket
K600	604 Valve Piece; 477-K Spring; 11-222 O-ring; 63 Gasket (2) [K600S indicates kit with strong spring 477-1]
K600A	604A Valve Piece; 605A4 Spring; 11-229 O-ring; 73 Gasket (2) [K600AS indicates kit with strong spring 605A1]
K600AJ	604AJ Valve Piece; 73 Gasket (2); 605AJ
K600B	604B Valve Piece; 326 Gasket; 605B Spring; 326Y Gasket (2)
K600BJ	604BJ Valve Piece; 326Y Gasket (2); 605BJ Spring
K600BJS	604BJ Valve Piece; 326Y Gasket (2); 605BJS Spring
K600DJ	604DJ Valve Piece; 326YA Gasket (2); 605DJ Spring
K600J	604J Valve Piece, 63W Gasket (2), 605AJ Spring
K600JR	604JR Valve Piece, 728 Gasket (2), 605JR
K700JR	703 Seat Disc; 710 Gasket; 506 Gasket
K700	703A Seat Disc; 710 Gasket; 725N Gasket (2)
K700A	700-3A Seat Disc; 710A Gasket; 73 Gasket (2)
K700B	700-3B Seat Disc; 710B Gasket; 326Y Gasket (2)
K700AX	700-3AX Seat Disc; 710A Gasket; 73 Gasket (2)
K700BX	700-3BX Seat Disc; 710B Gasket; 326Y Gasket (2)
K700X	700-3X Seat Disc; 710 Gasket; 725N Gasket (2)
K700AP	73 Gasket (2); 700-4AP Piston; 705A Spring; 710A Gasket
K700BP	326Y Gasket (2) 700-4BP Piston; 705BL Spring; 710B Gasket
K700XT	11-215 O-Ring; 600D2-2 Check Valve; 700-3X Seat Disc; 705-10L Spring; 710 Gasket; 725N Gasket(2); 5000-131 Retaining Ring
K700AXT	11-222 O-Ring; 73 Gasket(2); 600D3-2 Check Valve; 700-3AX Seat Disc; 705A10L Spring; 710A Gasket; 5000-175 Retaining Ring
K700BXT	326Y Gasket (2); 600D3XT Check Valve; 700-3BX Seat Disc; 705B15X Spring; 710B Gasket
K701JR	703JR Seat Disc; 710JR Gasket; 506 Gasket (2)
K701	703 Seat Disc; 710 Gasket; 725N Gasket (2)
K701A	703A Seat Disc; 710A Gasket; 73 Gasket (2)
K701B	703B Seat Disc; 710B Gasket; 326Y Gasket (2)
K1100	1101 Clear Glass; 1103 EPDM Gasket; 1104 Fiber Gasket
K1100R	1101R Reflex Glass; 1103 EPDM; 1104 Fiber Gasket
K3000	3003JR & 3003 Seat Discs; 3012JRL & 3012L Push Rods; 3013 & 3013JR Nuts; 3010JR & 3010N Gaskets; 705L Spring; 11-012(2) & 107 O-rings; 027F0666 Seal Kit; 775 Packing
K3000PS	3003JR & 3003 Seat Discs; 3012JRL & 3012L Push Rods; 3013 & 3013JR Nuts; 3010JR & 3010N Gasket; 705L Spring; 3004 & 3004JR Pistons; 3006 & 3006JR Seats; 11-012(2) & 107 O-rings; 027B1120 Solenoid; 775 Packing
K3000N-BNT	3002NR1 Bonnet; 3017NR1 Stem; 3333NR1 Plug; 3010N Gasket; 027B1120 Solenoid; 775 Packing
K3000A	3003A & 3003B Seat Discs; 3012A & 3012B Push Rods; 710A & 3010AN Gaskets; 705AL Spring; 11-012(2) & 107 O-rings; 027F0666 Seal Kit; 775 Packing
K3000APS	3003A & 3003B Seat Discs; 3012A & 3012B Push Rods; 710A & 3010AN Gaskets; 705AL Spring; plus 3004A & 3004B Pistons; 3006A & 3006B Seats; 11-012(2) & 107 O-rings; 027B1120 Solenoid; 775 Packing
K3000AN-BNT	3002AN1 Bonnet; 3017NR1 Stem; 3333NR1 Plug; 3010AN Gasket; 027B1120 Solenoid; 775 Packing

VALVE PARTS KITS: MISCELLANEOUS			
Kit Catalog No.	For Valve	Orifice Size (In.)	List Price
K101AB	101AB	3/8; 1/2	\$1,157
K101ABF	101ABF	3/8; 1/2	\$1,146
K101B	101B	3/8; 1/2; 5/8	\$1,168
K101BF	101BF	3/8; 1/2; 5/8	\$1,168
K152K	101, 101VP18	5/64 to 5/32; 3/16	\$740
K152K26	101VP-26" chamber	1/8; 5/32; 3/16	\$725
K152KF18	101F; 101VPF-18" chamber	5/64 to 5/32; 3/16	\$725
K152KF26	101VPF-26" chamber	1/8; 5/32; 3/16	\$762
K152KCP	101CP	5/64 to 5/32; 3/16	\$725
K152KCPF	101CPF	5/64 to 5/32; 3/16	\$762
K152L	101A	3/16; 1/4; 5/16; 3/8; 13/32	\$1,014
K152L18	101A-18" chamber	1/4	\$1,029
K152LF	101AF	1/4; 5/16; 3/8; 13/32	\$1,016
K152LF18	101F-18" chamber	1/4	\$1,014
K152LCP	101CP	1/4; 5/16; 3/8	\$1,014
K152LCPF	101CPF	1/4; 5/16; 3/8	\$1,051
K210	210	3/32 to 9/64	\$548
K210A	210A	5/32; 3/16; 7/32	\$605
K270A1	270A, 270AF, 275AF	1/16; 5/64; 3/32	\$497
K270A2	270A, 270AF, 275AF	1/8; 3/16	\$560
K270AX	270AX	13/64	\$560
K270AY	270AY	3/8	\$1,489
K270AZ	270AZ; 270AZA; 270AZAZ	0.234	\$771
K275AP1	275AP; 275APF	1/16; 5/64; 3/32	\$497
K275AP2	275AP; 275APF	1/8; 3/16	\$560
K280	225; 225B; 250; 250CB; 250P; 250L; 250VPF; 251CP	5/64 to 5/32	\$857
K280-6	250VP (R717 only)	7/64; 9/64; 5/32	\$857
K310	300; 300H; 300HM; 300J; 300P; 300Y; 301E	5/64; 3/32; 7/64; 1/8; 9/64	\$551
K310A	300A; 300AM; 300YA; 301G	5/32; 3/16; 7/32	\$600
K310AX	300A; 300AM; 301G	9/32	\$1,022
K355	301; 301H; 301J; 301K; 301D; 301A	3/16; 7/32; 9/32	\$1,133

*Use the 5/64" Orifice Only in a 301E Valve

KITS: CHECK VALVES (DISC TYPE)			
Kit Catalog No.	For Valve	Line Size (In.)	List Price
K600	600; 600K	1, 1 1/4	\$222
K600S	600; 600K	1, 1 1/4	\$222
K600A	600A; 600AK	1 1/2, 2	\$317
K600AJ	600AJ	1 1/2, 2	\$262
K600AS	600A; 600AK	1 1/2, 2	\$317
K600BJ	600BJ	3	\$615
K600BJS	600BJS	3	\$630
K600DJ	600DJ	4	\$633
K600J	600J	1 1/4, 1 1/2	\$168
K600JR	600JR	1/2, 3/4, 1	\$121

ORDERING INSTRUCTIONS:

1. Orifice size
2. Valve Serial Number
3. Load in Tons
4. Refrigerant

NOTES:

1. Ordering instruction data required for float controls only.
2. Failure to furnish at least one of the above requirements may mean a delay in filling the order, as our factory will have to seek the information before a shipment can be made.
3. If a replacement spring is required, the complete valve model number (ex. 700X5-DE) must be supplied.

KITS: CHECK VALVES (PISTON TYPE)			
Kit Catalog No.	For Valve	Line Size (In.)	List Price
K700JR	700JR; 700JRS; 700JRX; 700JRH; 700JRXH	1/2; 3/4	\$53
K700	700; 700S; 700H	1, 1 1/4	\$79
K700A	700A; 700AS; 700AH	1 1/2, 2	\$337
K700B	700B; 700BS; 700BH	3	\$272
K700X	700X; 700XS; 700XH	1, 1 1/4	\$67
K700AX	700AX; 700AXS; 700AXH	1 1/2, 2	\$81
K700BX	700BX; 700BXS; 700BXH	3	\$149

KITS: LOW SIDE PILOT OPERATED VALVES			
Kit Catalog No.	For Valve	Line Size (in.)	List Price
K701JR	701JR; 701JRS	1/2; 3/4	\$55
K701	701; 701S	1, 1 1/4	\$65
K701A	701A; 701AS	1 1/2, 2	\$79
K701B	701B; 701BS	3	\$116

If a replacement spring is required for any of these valves, we must be advised of the Valve Serial Number.

KITS: 3-WAY SOLENOID OPERATED VALVES			
Kit Catalog No.	For Valve	Line Size (in.)*	List Price
K3000	3000N	3/4	\$308
K3000PS	3000N	3/4	\$1,131
K3000N-BNT	3000N	3/4	\$996
K3000A	3000AN	1 1/4	\$457
K3000APS	3000AN	1 1/4	\$1,668
K3000AN-BNT	3000AN	1 1/4	\$1,634

*Actual valve IPS. Pipe lines run to the 3-way valves can be as indicated, or may be one or two pipe sizes larger.

KITS: 3-WAY CHECK VALVES			
Kit Catalog No.	For Valve	Line Size (in.)	List Price
K700XT	700XT	1, 1 1/4	\$749
K700AXT	700AXT	1 1/2, 2	\$1,180
K700BXT	700BXT	3	\$1,936

KITS: LEVEL EYE®		
Kit Catalog No.	For Level Eye®	List Price
K1100	Clear Level Eye® w/Teflon Gasket	\$144
K1100R	Reflex Level Eye® w/Teflon Gasket	\$121
K1100-P	Clear Level Eye® w/Neoprene Gasket	\$132
K1100R-P	Reflex Level Eye® w/Neoprene Gasket	\$109

KITS: INTERRUPTING VALVES			
Kit Catalog No.	For Valve	Line Size (in.)	List Price
K700AP	700AP	1 1/2, 2	\$476
K700BP	700BP	3	\$1,102

REPLACEMENT PARTS								
PART NO.	DESCRIPTION	LIST PRICE	PART NO.	DESCRIPTION	LIST PRICE	PART NO.	DESCRIPTION	LIST PRICE
2S403S-	SEAT & NEEDLE	\$414	67F-8"	FLOAT	\$804	273X	BOSS	\$128
4	ADJUSTING NUT	\$64	67F-16"	FLOAT	\$880	275	FLOAT BLOCK	\$152
4B	ADJUSTING NUT	\$64	68-8"	FLOAT	\$916	276	LEVER	\$57
5G	GASKET	\$25	68F-8"	FLOAT	\$971	277	LINK	\$111
5GY	GASKET	\$25	68F-12"	FLOAT	\$1,255	278	LINK	\$111
5-2A	SPRING	\$27	69	FLOAT	\$1,627	280-	CARTRIDGE	\$849
5-30A	SPRING	\$12	72	BOLT	\$8	281M	SCREEN	\$58
5-60L	SPRING	\$49	73	GASKET	\$13	284	ROD	\$33
5-61	SPRING	\$14	73L	GASKET	\$13	285A	SPRING	\$10
5AB45	SPRING	\$49	74	GASKET	\$12	289	GASKET	\$10
6	SPRING CONE	\$43	75K	O-RING	\$14	290S	STOP	\$20
6G	GASKET	\$28	79	FLOAT	\$326	291	CAP	\$98
6GY	GASKET	\$31	84	PIPE PLUG	\$10	292	GASKET	\$12
6T	SPRING CONE	\$58	87	LOCK NUT	\$6	293	GLAND	\$16
7	STEM	\$153	87S	LOCK NUT	\$16	294	STEM	\$115
7B	STEM	\$78	88	LOCK NUT	\$8	296	SCREW	\$12
8	GLAND	\$39	90P	PIPE PLUG	\$27	299A	CHAMBER	\$452
8B	GLAND	\$39	107	O-RING	\$8	302D	DISC	\$43
8G	GASKET	\$34	108	O-RING	\$8	304	FOLLOWER	\$7
9AP	BONNET	\$601	151B	GLAND	\$152	304A	FOLLOWER	\$10
9B	BONNET	\$338	152B&153B-	SEAT & PLUNGER	\$1,074	305A	SPRING	\$6
9BF	BONNET	\$1,068	152KCP-	CARTRIDGE	\$697	307	BOSS	\$184
9BP	BONNET	\$1,068	152LCP-	CARTRIDGE	\$986	307A	BOSS	\$298
9F	BONNET	\$283	153B	PLUNGER ASSY	\$900	307ACB	BOSS	\$197
10	LEVER	\$186	204E	ADJUSTING NUT	\$52	307B	BOSS	\$306
10B	LEVER	\$332	211	SPRING PIN	\$7	307E	BOSS	\$314
10CP	LEVER	\$275	211AY	SPRING PIN	\$7	307G	BOSS	\$178
10-11-1/2	LEVER	\$193	211X	SPRING PIN	\$7	307H	BOSS	\$309
10-8-1/2-101	LEVER	\$193	213A	FLOAT BLOCK	\$207	307J	BOSS	\$178
10-8-1/2-101A	LEVER	\$193	215CB	FLOAT BLOCK	\$168	308	PUSHER	\$91
11	LEVER PIN	\$15	220	FLOAT	\$369	308A	PUSHER	\$110
11&SPACERS	LEVER PIN	\$31	220A	FLOAT	\$188	308ACB	PUSHER	\$455
11B	LEVER PIN	\$16	220PS	FLOAT	\$928	309	GASKET	\$6
11S	LEVER PIN	\$23	220PSF	FLOAT	\$1,162	309A	GASKET	\$6
11-012	O-RING	\$4	224	LOCK NUT	\$10	310-	CARTRIDGE	\$444
11-210/11-215	O-RING	\$12	227	CAP SCREW	\$6	310A-	CARTRIDGE	\$482
11-222	O-RING	\$16	228	STOP	\$14	310AX	CARTRIDGE	\$559
11-225/11-229	O-RING	\$16	228A	SCREW	\$16	311A	SCREEN	\$21
12	PIPE PLUG	\$10	230	FLOAT BLOCK	\$97	313	FLOAT ROD	\$82
13	BUSHING	\$230	230A	FLOAT BLOCK	\$64	313A	FLOAT ROD	\$119
14	PLUG	\$99	230X	FLOAT BLOCK	\$244	313AM	FLOAT ROD	\$107
14CB	PLUG	\$100	230Z	FLOAT BLOCK	\$82	313CP	FLOAT ROD	\$201
15	SPRING	\$16	231	LINK	\$12	313CPS	FLOAT ROD	\$380
16	SPRING CONE	\$33	243CB	FLOAT ROD	\$29	313HM	FLOAT ROD	\$103
18	SCREEN	\$88	261	SEALING WASHER	\$10	313R	FLOAT ROD	\$48
19	GASKET	\$8	262&403S-	SEAT BSHG. & NEEDLE	\$353	314	CAM NEEDLE	\$86
24A	BOLT	\$11	262A&263A-	SEAT BSHG. & NEEDLE	\$416	314A	CAM NEEDLE	\$88
24B	BOLT	\$13	262AY&263AY-	SEAT BSHG. & NEEDLE	\$1,345	314E	CAM NEEDLE	\$92
24C	BOLT	\$16	262AZ&263AZ	SEAT BSHG. & NEEDLE	\$593	314J	CAM NEEDLE	\$88
24D	BOLT	\$16	265AY	SPRING	\$15	315	FLOAT BLOCK	\$119
24E	BOLT	\$13	265C	SPRING	\$16	315ACB	FLOAT BLOCK	\$605
55	LOCK WASHER	\$6	265D-S	SPRING	\$23	315PA	FLOAT BLOCK	\$188
55A	LOCK WASHER	\$6	265E	SPRING	\$15	315PM	FLOAT BLOCK	\$226
56	COTTER PIN	\$6	267	FLOAT	\$447	315R	FLOAT BLOCK	\$165
57	NUT	\$3	267AZAZ	FLOAT	\$812	315WA	FLOAT BLOCK	\$166
58	NUT	\$4	267F	FLOAT	\$698	315WCB	FLOAT BLOCK	\$100
59	NUT	\$10	267Y	FLOAT	\$698	316	SET SCREW	\$12
60	NUT	\$7	270M	ADJUSTING NUT	\$39	317J	NEEDLE	\$68
62	BOLT	\$4	272AY	PUSHER	\$215	318P	STOP	\$51
63	GASKET	\$8	272M	PUSHER	\$146	319P	ADJUSTING PIECE	\$16
63W	GASKET	\$8	272X	NEEDLE	\$54	321M	FLOAT	\$207
67-8"	FLOAT	\$861	273AY	GLAND	\$298	321MF	FLOAT	\$260
67-16"	FLOAT	\$918	273M	GLAND	\$164	321WCB	FLOAT	\$547

REPLACEMENT PARTS								
PART NO.	DESCRIPTION	LIST PRICE	PART NO.	DESCRIPTION	LIST PRICE	PART NO.	DESCRIPTION	LIST PRICE
322	LOCK NUT	\$6	600D3-2	INNER CHECK VALVE	\$1,010	700-4BXS	PISTON	\$505
324	LOCK NUT	\$6	600D3XT	CHECK VALVE	\$1,619	700-4BXT	PISTON	\$1,037
324S	LOCK NUT	\$16	601AJ	SNAP RING	\$27	700-4JRH	PISTON	\$352
325	CAP SCREW	\$8	601B	STEM	\$486	700-4JRSS	PISTON	\$439
325WCB	CAP SCREW	\$8	601BJ	SNAP RING	\$33	700-4JRX	PISTON	\$188
326	GASKET	\$14	601DJ	SNAP RING	\$55	700-4X	PISTON	\$188
326KZ	GASKET	\$25	601J	SNAP RING	\$23	700-4XH	PISTON	\$262
326Y	GASKET	\$14	601JR	SNAP RING	\$16	700-4XT	PISTON	\$377
326YA	GASKET	\$23	602A	BACK PLATE	\$262	700-7	FLUSH PLUG	\$51
327P	STEM	\$176	602AJ	BACK PLATE	\$61	700-7AQ	FLUSH PLUG	\$189
328E	GLAND	\$130	602AK	GUIDE PIECE	\$203	700-7AX	FLUSH PLUG	\$80
329	STOP	\$20	602BJ	BACK PLATE	\$291	700-7AXH-	METERING PLUG	\$219
331-15	FLOAT	\$818	602DJ	BACK PLATE	\$406	700-7AXS	FLUSH PLUG	\$98
331-15F	FLOAT	\$853	602K	GUIDE PIECE	\$174	700-7AXT	FLUSH PLUG	\$188
333	PIPE PLUG	\$10	603AJ	TEFLON RING	\$64	700-7BX	FLUSH PLUG	\$273
334CB	CONNECTOR	\$88	603BJ	TEFLON RING	\$88	700-7BXH-	METERING PLUG	\$348
343	FLOAT ROD	\$51	603DJ	TEFLON RING	\$133	700-7BXS	FLUSH PLUG	\$273
343A	FLOAT ROD	\$27	603J	TEFLON RING	\$51	700-7H-	METERING PLUG	\$219
343AZ	FLOAT ROD	\$111	603JR	TEFLON RING	\$29	700-7JR	FLUSH PLUG	\$45
343CP	FLOAT ROD	\$88	604	VALVE PIECE	\$174	700-7JRH-	METERING PLUG	\$168
343D	FLOAT ROD	\$55	604A	VALVE PIECE	\$252	700-7JRS	FLUSH PLUG	\$143
343H	FLOAT ROD	\$88	604AJ	VALVE PIECE	\$207	700-7S	FLUSH PLUG	\$148
343WA	FLOAT ROD	\$168	604B	VALVE PIECE	\$578	700-7T	FLUSH PLUG	\$125
343WCB	FLOAT ROD	\$20	604BJ	VALVE PIECE	\$537	702APN	BONNET	\$1,274
355-	CARTRIDGE	\$1,125	604DJ	VALVE PIECE	\$873	702AS	BONNET	\$338
356	SPRING	\$10	604J	VALVE PIECE	\$123	702BPN	BONNET	\$2,105
357	ADJUSTING SCREW	\$20	604JR	VALVE PIECE	\$84	702BS	BONNET	\$620
358	PUSHER	\$122	605A1	SPRING	\$25	702BT	BONNET	\$553
359	LOCK NUT	\$8	605A4	SPRING	\$23	702BXS	BONNET	\$656
363	PLUG	\$119	605AJ	SPRING	\$29	702JRS	BONNET	\$188
363-510CAP	STRAINER CAP	\$134	605B	SPRING	\$54	702S	BONNET	\$188
363P	STRAINER CAP	\$131	605BJ	SPRING	\$50	702T	BONNET	\$272
364	GASKET	\$23	605BJS	SPRING	\$65	703	SEAT DISC	\$29
365	GASKET	\$8	605DJ	SPRING	\$64	703A	SEAT DISC	\$43
369	ADJUSTING SCREW	\$31	605DJS	SPRING	\$123	703B	SEAT DISC	\$74
369A	STOP SCREW	\$21	605JR	SPRING	\$25	703JR	SEAT DISC	\$29
370A	FLOAT	\$704	608AJ	BACK PLATE RING	\$59	703JRN	SEAT DISC	\$43
370M	FLOAT	\$430	608BJ	BACK PLATE RING	\$72	703BXS	SEAT DISC	\$253
370MF	FLOAT	\$496	608DJ	BACK PLATE RING	\$111	704	PISTON	\$321
377	STEM	\$80	608J	BACK PLATE RING	\$49	704A	PISTON	\$421
398A	CHAMBER	\$1,598	608JR	BACK PLATE RING	\$31	704B	PISTON	\$926
398B	CHAMBER	\$1,598	610B	RETAINER	\$102	704JR	PISTON	\$295
403S	NEEDLE	\$51	626	GASKET	\$6	705	SPRING	\$26
411	LEVER PIN	\$23	700-2	BONNET	\$149	705-1L	SPRING	\$27
411&SPACERS	LEVER PIN	\$31	700-2A	BONNET	\$237	705-5L	SPRING	\$27
411-S	LEVER PIN	\$57	700-2AP	BONNET	\$702	705-10L	SPRING	\$27
431	LINK	\$12	700-2AT	BONNET	\$338	705-20L	SPRING	\$27
431AY	LINK	\$39	700-2B	BONNET	\$543	705-35L	SPRING	\$27
477K	SPRING	\$16	700-2BP	BONNET	\$396	705-35R	SPRING	\$27
477-1	SPRING	\$18	700-3A	SEAT DISC	\$301	705-45L	USE 705-50L	\$27
506	GASKET	\$8	700-3AX	SEAT DISC	\$45	705-50L	SPRING	\$27
515	SPRING	\$34	700-3B	SEAT DISC	\$230	705-60L	SPRING	\$27
516	SPRING CONE	\$50	700-3BX	SEAT DISC	\$107	705-60R	SPRING	\$27
516P	SPRING GUIDE	\$41	700-3X	SEAT DISC	\$31	705-70L	SPRING	\$27
517	SCREEN	\$195	700-4AP	PISTON	\$383	705-90L	SPRING	\$27
517JRP	SCREEN	\$174	700-4AX	PISTON	\$276	705-130L	SPRING	\$27
558	SCREEN	\$160	700-4AXH	PISTON	\$422	705A	SPRING	\$57
576	FLANGE	\$169	700-4AXHS	PISTON	\$496	705A-2L	SPRING	\$57
577	CAP SCREW	\$8	700-4AXS	PISTON	\$322	705A-10L	SPRING	\$57
580	SCREEN	\$369	700-4AXT	PISTON	\$895	705A-20L	SPRING	\$57
600D2	CHECK VALVE w/FLGS	\$631	700-4BP	PISTON	\$892	705A-30L	SPRING	\$57
600D2-2	INNER CHECK VALVE	\$483	700-4BX	PISTON	\$396	705A-60L	SPRING	\$57
600D3	CHECK VALVE w/FLGS	\$1,269	700-4BXH	PISTON	\$662	705A-110L	SPRING	\$57

REPLACEMENT PARTS								
PART NO.	DESCRIPTION	LIST PRICE	PART NO.	DESCRIPTION	LIST PRICE	PART NO.	DESCRIPTION	LIST PRICE
705A-165L	SPRING	\$57	754AQ	PISTON	\$580	3002JR	BONNET	\$219
705A-114	SPRING	\$57	775	PACKING RING	\$14	3002JRN	BONNET	\$161
705AL	SPRING	\$27	776	RETAINER	\$14	3002NR1	BONNET	\$617
705B-3L	SPRING	\$168	777BN	PACKING RING	\$20	3003	SEAT DISC	\$39
705B-10L	SPRING	\$168	1100H	HOUSING	\$156	3003A	SEAT DISC	\$51
705B-15X	SPRING	\$168	1100AH	HOUSING	\$181	3003B	SEAT DISC	\$74
705B-30L	SPRING	\$168	1100LH	HOUSING	\$217	3003JR	SEAT DISC	\$33
705B-60L	SPRING	\$168	1100CH	HOUSING	\$171	3004	PISTON	\$180
705B-100L	SPRING	\$168	1100LCH	HOUSING	\$233	3004A	PISTON	\$301
705B-160L	SPRING	\$168	1100ATH	HOUSING	\$216	3004B	PISTON	\$437
705BL	SPRING	\$168	1100TH	HOUSING	\$255	3004JR	PISTON	\$295
705L	SPRING	\$15	1100VH	HOUSING	\$432	3006	SEAT	\$76
706-9/16"	SEAT	\$122	1100SH	HOUSING	\$312	3006A	SEAT	\$123
706-23/32"	SEAT	\$122	1100LSH	HOUSING	\$431	3006B	SEAT	\$152
706A-23/32"	SEAT	\$149	1100SCH	HOUSING	\$328	3006JR	SEAT	\$74
706A-7/8"	SEAT	\$149	1100LSCH	HOUSING	\$446	3010	GASKET	\$10
706B	SEAT	\$215	1101	LENS - CLEAR	\$114	3010AN	GASKET	\$10
706JR-3/8"	SEAT	\$122	1101B	BLANKING LENS	\$62	3010JR	GASKET	\$10
706JR-9/16"	SEAT	\$122	1101R	LENS - REFLEX	\$91	3010N	GASKET	\$10
706JRP	SEAT	\$82	1102SH	RETAINER SS HEX	\$156	3012A	PUSH ROD	\$109
707-9/16-	METERING PLUG	\$111	1103	GASKET - TEFLON	\$24	3012B	PUSH ROD	\$123
707-23/32-	METERING PLUG	\$111	1103B	GASKET - BUNA N	\$12	3012JRL	PUSH ROD	\$68
707A-23/32-	METERING PLUG	\$139	1103N	GASKET - NEOPRENE	\$12	3012L	PUSH ROD	\$68
707A-7/8-	METERING PLUG	\$139	1104	GASKET	\$6	3013	NUT	\$8
707B-	METERING PLUG	\$321	1105	FROST SHIELD	\$77	3013JR	NUT	\$8
707JR-3/8-	METERING PLUG	\$133	1105L	FROST SHIELD	\$99	3014	TUBE ASSY	\$141
707JR-9/16-	METERING PLUG	\$133	1105/1106	FRST SHLD/O-RING	\$82	3014A	TUBE ASSY	\$141
708A	SPRING CONE	\$77	1105L/1106	FRST SHLD/O-RING	\$105	3014TF	TUBE FITTING	\$61
708AT	SPRING CONE	\$84	1106	O-RING	\$6	3017NR	STEM	\$74
708B	SPRING CONE	\$76	1358	GASKET	\$14	3017NR1	STEM	\$74
708BT	SPRING CONE	\$253	1458	GASKET	\$29	3333NR	PLUG	\$60
708BXT	SPRING CONE	\$273	1459	BOLT	\$7	3333NR1	PLUG	\$60
710	GASKET	\$8	2026SL-	NOZZLE	\$366	5000-131	SNAP RING	\$12
710A	GASKET	\$10	2027SL-	THROAT	\$217	5000-175	SNAP RING	\$16
710B	GASKET	\$14	2028SL	NUT	\$77	5108-137	SNAP RING	\$12
710JR	GASKET	\$10	2029	GASKET	\$6	5108-177	SNAP RING	\$18
711	STEM	\$119	2030SL	NUT	\$79	B-10985	CHAMBER	\$1,894
711A	STEM	\$126	2046SL-	NOZZLE	\$240	RHR120	DELAY RLY 120V	\$541
711AXT	STEM	\$188	2047SL-	THROAT	\$116	RHR240	DELAY RLY 240V	\$541
711B	STEM	\$203	2048	NUT	\$126	TBASE	OCTAL BASE	\$173
711BT	STEM	\$230	2049	GASKET	\$8	THR120	TIMER ASSY 120V	\$713
711X	STEM	\$88	2076W	FRONT PIECE	\$29	THR240	TIMER ASSY 240V	\$713
711XS	STEM	\$99	2077W-	THROAT	\$151	U4-1	NUT	\$86
711XT	STEM	\$180	2077W-BL	THROAT BLANK	\$144	U4-1S	NUT	\$86
714	SEAL CAP	\$133	2101W	FRONT PIECE	\$101	U4-3S	RETAINER	\$66
714N	SEAL CAP	\$25	2106SL-	NOZZLE	\$358	U4-4	GASKET	\$6
714B	SEAL CAP	\$245	2107SL-	THROAT	\$163	U6-1S	NUT	\$111
718	CAP SCREW	\$6	2107W-	THROAT	\$366	U6-4	GASKET	\$8
720	GASKET	\$10	2108SL	NUT	\$124			
720B	GASKET	\$10	2110SL	CONNECTOR	\$83			
721A	BOLT	\$6	2111	GASKET	\$6			
721B	BOLT	\$6	2125WA-3	INJ. WELDMENT	\$488			
721L	BOLT	\$7	2126-	NOZZLE	\$523			
723	GASKET	\$9	2127WA-	THROAT	\$301			
725	GASKET	\$10	2130	NUT	\$70			
725N	GASKET	\$14	2131B	CONNECTOR	\$41			
726	BOLT	\$13	2157WA-	THROAT	\$243			
726B	BOLT	\$12	2222-	NOZZLE	\$662			
726C	BOLT	\$12	2223W-	THROAT	\$1,000			
726D	BOLT	\$17	2256WA-	NOZZLE	\$624			
726E	BOLT	\$23	3002	BONNET	\$209			
728	GASKET	\$6	3002A	BONNET	\$275			
752AQ	SLEEVE	\$934	3002AN1	BONNET	\$1,255			

RETURN MATERIAL AUTHORIZATION POLICY

FOR PRODUCTS MANUFACTURED BY H. A. PHILLIPS & CO.:

H. A. Phillips & Co. will review any customer's request to return product(s) for credit or repair. Customers must obtain a Return Material Authorization prior to returning any product(s). NOTE: RMA numbers are only valid for 6 months following their date of issue.

The following steps must be followed for all returns and repairs:

1. Customer contacts H. A. Phillips & Co. for a Return Material Authorization (RMA) number.
2. H. A. Phillips & Co. issues the customer and RMA form and a copy of the Return Material and Repair Policy.
3. H. A. Phillips & Co. indicates "Repair & Return" or "Return for Credit" on the RMA form.
4. Customer includes the RMA form with the product(s) when packaged for shipment.
5. Customer writes the RMA number on the outside of the package.
6. The product(s) must be packaged properly to prevent any damage during shipment. The original box must be used for all returns except valid warranty claims.
7. Customer ships the product(s) prepaid UPS to the factory address. H. A. Phillips & Co. WILL NOT accept any C.O.D. parcels.
8. Payment for product is not contingent upon processing of RMA. Any applicable credit(s) will be available only upon issuance by H. A. Phillips. Please refer to the published Terms & Conditions regarding payment terms.

Returns:

When a credit is requested, H. A. Phillips & Co. will inspect the returned condition of the product(s) prior to making a credit decision. A minimum restocking charge calculated as 15% of the purchase price or \$15.00, whichever is greater, will apply. If the product(s) returned is (are) a non-stocked assembly that must be disassembled before restocking the components, a restocking charge of 25% of the purchase price or \$25.00, whichever is greater, will apply. If the returned product(s) is (are) defective in material or workmanship according to the warranty provisions of H. A. Phillips & Co.'s Terms & Conditions of Sale, there will be no restocking charge. An additional charge of 10% of the purchase price or \$10.00, whichever is greater, will apply if the product is returned without: 1) the original packaging (for non-warranty returns only), 2) the RMA paperwork, or 3) if the RMA is more than 60 days old on the date that the product was shipped to the factory by the customer.

Any damage due to improper packing of the returned product(s) by the customer will be charged to the customer or the product(s) will be returned to the customer with no credit given and return freight billed to the customer.

Repairs:

H. A. Phillips & Co. will repair valves with a Valve Serial Number that indicates the valve was manufactured less than ten (10) years prior to the request for an RMA. A customer should check with the factory to verify the age. Repair parts for older valves are usually available. H. A. Phillips & Co. will repair a valve for a fee of 75% of the current total cost for a new valve, contingent on the re-use of the valve body and float ball (if applicable). The repaired or replaced valve assumes the remaining term of the applicable warranty or 90 days; whichever is longer.

FOR PRODUCTS SOLD OR DISTRIBUTED BY H. A. PHILLIPS & CO. BUT MANUFACTURED BY OTHERS:

Returns:

When a credit is requested for product(s) not manufactured by H. A. Phillips & Co., any restocking fee(s) is (are) subject to the published Terms & Conditions of the original manufacturer. The restock fee(s) and other costs related to the credit request will be passed to the customer.

Seller warrants that its products ("Product(s)") will meet the specifications set forth in its catalog from time to time, unless the Buyer is notified otherwise prior to delivery. Seller will, without charge, repair or provide a replacement for any of the Products which prove to be defective in materials or workmanship within one (1) year from the date of shipment ("Warranty Period").

If, within the Warranty Period, Buyer discovers a defect in materials or workmanship, which interferes with the operation of any Product, Buyer must promptly notify Seller, in writing, of such defect. Seller's sole obligation to Buyer under this Warranty is to repair and correct any defect in material or workmanship, or provide a replacement Product to Buyer. Seller's decision with respect to the applicability of this Warranty to any defect shall be final and conclusive. Seller reserves the right to require Buyer, at Buyer's sole cost and expense, to return any defective Product, including any alterations made thereto, F.O.B. Seller's factory in Illinois.

Seller does not warrant against abrasion, corrosion or erosion. Seller shall not be liable to Buyer or to any other person for work done or repairs made, to remedy any defect, by any person who is not an authorized representative of Seller, unless Seller's written consent is first obtained by Buyer. This Warranty does not apply to, and is rendered null and void by, any Product which, after leaving Seller's manufacturing plant: (a) is repaired or altered without Seller's prior written approval; (b) is the subject of improper storage, installation or operation; (c) is the subject of intentional or negligent misuse, misapplication, neglect or accident; or (d) is not used, repaired or altered in accordance with Seller's written instructions.

This Warranty does not apply to any products which are purchased and resold by Seller and which bear the original manufacturer's name or nameplate on the product. Any such products shall be warranted only to the extent of the express warranty, if any, provided by the manufacturer of such products or parts as published in their Terms and Conditions.

Seller expressly reserves the right to declare this Warranty null and void upon Buyer's failure to make full and timely payments with respect to any Products purchased by Buyer from Seller, in which event all of Seller's obligations, and Buyer's rights, under this Warranty, shall immediately terminate.

SELLER DISCLAIMS THE IMPLIED WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, AND ANY IMPLIED WARRANTIES ARISING FROM COURSE OF PERFORMANCE, COURSE OF DEALING, OR USAGE OF TRADE. SELLER SHALL NOT BE LIABLE TO BUYER OR ANY OTHER PARTY UNDER THIS WARRANTY FOR DIRECT, SPECIAL, CONSEQUENTIAL, INDIRECT OR INCIDENTAL DAMAGES OF ANY KIND.

TERMS AND CONDITIONS OF SALE

1. Acceptance of Orders. All sales made by H.A. Phillips & Co. ("Seller") of its products ("Products") are contingent upon the Buyer's acceptance of these Terms and Conditions of Sale ("Terms"). All orders placed by Buyer are subject to acceptance by an authorized representative of Seller at Seller's principal offices in Illinois. Any terms and conditions contained in Buyer's purchase order which are inconsistent with, or in addition to, these Terms, shall not be binding upon Seller unless, and until, Seller agrees to any such terms and conditions, in writing, signed by an authorized representative of Seller. These Terms cannot be modified or waived except by written agreement executed by an authorized representative of Seller at Seller's principal offices in Illinois.
2. Prices. Prices stated in Seller's price list are subject to change without notice. Prices listed in Seller's quotations or acknowledgements, or which are quoted verbally (other than welded products for which only a written quotation is valid) by Seller, shall remain firm for thirty (30) days unless Seller notifies Buyer to the contrary.
3. Payment Terms. Provided that Buyer has established a credit account with Seller, then payment terms for all Products for US Customers with a selling price less than \$50,000.00 and Canadian Customers with a selling price less than \$25,000.00, are net cash (U.S. Dollars) thirty (30) days from date of invoice (date of shipment). For all Products for US Customers with a selling price greater than \$50,000.00, 10% of the selling price is due prior to the time that the order is shipped, with the remaining 90% due net cash (U.S. Dollars) thirty (30) days from date of invoice (date of shipment). For all Products for Canadian Customers with a selling price greater than \$25,000.00, 25% of the selling price is due prior to the time that the order is shipped, with the remaining 75% due net cash (U.S. Dollars) thirty (30) days from the date of invoice (date of shipment). If Buyer has not established a credit account with Seller, then payment terms for all Products are net cash (U.S. Dollars) prior to shipment. Certain credit cards may be accepted for payment, but only prior to the time that an order is shipped. Credit cards will not be accepted after the time that an order is shipped. These payment terms are independent of, and are not contingent upon, the time and manner in which Buyer receives payment from any of its customers. All Sales Orders are quoted by Seller to Customers as cash (U.S. Dollars) sale. An additional 2% is added to all Welded Products orders when paid by credit card. An additional 3% is added to all other order over \$5,000 when paid by credit card. A finance charge of 1.5% per month (annual percentage rate of 18%) will be charged on all past due amounts. In the event suit or other proceeding is brought by Seller for the recovery of the purchase price, or any unpaid portion thereof, or for any breach of any of these Terms, Buyer shall pay to Seller, in addition to any damages provided by law, all collection or enforcement costs incurred by Seller, including reasonable attorney fees, and Seller shall be entitled to have such costs and fees included as part of any judgment obtained by Seller.
4. Taxes. Prices set forth in Seller's price list, or quoted by Seller, do not include applicable federal, state or local taxes or other charges. Buyer shall pay all such taxes and other charges, together with any penalties and interest, and file any returns with respect thereto, upon receipt of any invoice from Seller. In lieu of payment of any such taxes, Buyer shall provide Seller with an acceptable tax exemption certificate. Buyer agrees to indemnify Seller, and hold Seller harmless, and upon request, defend Seller, against any and all assessments, demands, causes of action, suits, or claims of any nature, whatsoever, including costs and attorney fees, incurred by Seller in connection with the payment or nonpayment of any applicable taxes, for the filing or failure to file any returns, which are required of Buyer by law or pursuant to this paragraph 4.
5. Delivery and Shipment Dates. Any dates and schedules for delivery of Products stated in Seller's quotation or acknowledgement represent Seller's best estimate made at the time of such quotation or acknowledgement, and are not binding upon Seller. Seller reserves the right to make deliveries in installments and to separately invoice Buyer for each installment. Seller shall have no liability, whatsoever, to Buyer, Buyer's customers, or any third party for direct, liquidated, consequential, incidental or indirect damages, losses or expenses resulting from delays in shipment of any Products or installments of Products.
6. Freight. All shipments are F.O.B., Seller's factory in Illinois. If Buyer specified shipment by "Pre-paid Freight", freight charges plus 10% (15% for same-day shipments), but not less than \$5.00 in any case, will be added to Buyer's invoice. If Buyer specified shipment by "Collect" or "Third Party", a \$5.00 handling charge per order will be added to Buyer's invoice. Any domestic orders placed after 2pm Central Time (12 noon for International orders) requiring same-day assembly will be charged a \$25 fee per item. Any domestic non-assembly orders placed after 3pm Central Time (2pm for International orders) requiring same-day shipping will be charged a \$25 fee per order. International orders placed after 3pm Central Time cannot be guaranteed for same-day shipping.
7. Security. Seller shall have, and Buyer hereby grants to Seller, a security interest in all Products sold to Buyer until full and complete payment has been received by Seller from Buyer for the Products. Buyer agrees to do all acts necessary to permit Seller to perfect and maintain such security interest.
8. Returns. Seller will review Buyer's request to return standard Products for credit or repair. Prior to returning any standard Product, Buyer must obtain Return Material Authorization from Seller. Except for valid warranty claims, no returns will be accepted after 90 days from the date of shipment. A minimum restocking charge will be charged on all non-warranty returns. All Resale items are subject to the Terms and Conditions as published by the original manufacturer. A copy of Seller's Return Material and Repair Policy is available upon request.
9. Indemnification. Buyer shall indemnify and defend Seller, and hold Seller harmless, from and against any and all claims, demands, causes of action, loss, or damage, including reasonable attorney fees, arising from or relating to the improper use or installation of any Product or any acts or omissions of Buyer.
10. Limitation of Liability. IN NO EVENT SHALL SELLER HAVE ANY LIABILITY, WHATSOEVER, TO BUYER, BUYER'S CUSTOMERS, OR ANY THIRD PARTY FOR SPECIAL, LIQUIDATED, CONSEQUENTIAL, INCIDENTAL OR INDIRECT LOSS OR DAMAGE OF ANY KIND, ARISING OUT OF, OR ALLEGED TO ARISE OUT OF, ANY PRODUCTS OR SELLER'S SALE THEREOF. SELLER'S LIABILITY FOR WARRANTY CLAIMS IS SOLELY AS SET FORTH IN SELLER'S LIMITED PRODUCT WARRANTY AS PROVIDED IN PARAGRAPH 11 OF THESE TERMS.
11. Warranty. Seller warrants its Products in accordance with Seller's Limited Product Warranty, a copy of which Buyer acknowledges receipt with these Terms, and which is incorporated herein by reference. SELLER DISCLAIMS THE IMPLIED WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, AND ANY IMPLIED WARRANTIES ARISING FROM COURSE OF PERFORMANCE, COURSE OF DEALING, OR USAGE OF TRADE. SELLER SHALL NOT BE LIABLE TO BUYER OR ANY OTHER PARTY UNDER THIS WARRANTY FOR DIRECT, SPECIAL, CONSEQUENTIAL, INDIRECT OR INCIDENTAL DAMAGES OF ANY KIND.
12. Cancellation. No order for Products may be cancelled by Buyer without the prior written consent of Seller. In the event Seller consents to cancellation of any order placed by Buyer, Buyer agrees to reimburse Seller for any expenses incurred in developing, engineering, or manufacturing any Products to Buyer's specifications and for any Products shipped to Buyer prior to Seller's receipt of any notice of cancellation.
13. Choice of Law. All agreements between Seller and Buyer with respect to any Products, or the performance thereof, shall be construed in accordance with, and governed by, the laws of the State of Illinois.
14. Jurisdiction. Seller and Buyer hereby acknowledge and agree that this sale is entered into in DeKalb County, Illinois, and hereby further agree to submit themselves to the jurisdiction of the courts of DeKalb County, Illinois, with respect to any claim, controversy or dispute, whether in law or in equity, which arises from, or is alleged to arise from, or is in any way related to, this sale.
15. Waiver. Waiver by Seller of Buyer's breach of any of these Terms shall not be construed as a waiver of any other breach.
16. Severability. In the event any provision of these Terms shall be declared invalid or unenforceable by a court of competent jurisdiction, the remaining provisions of these Terms shall remain in full force and effect.