

Phillips®

REFRIGERATION

VALVES • VESSELS • SYSTEMS • CONTROLS

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LP-092123
 Effective September 21, 2023
 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.

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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-22E-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"	\$184	1100	2"	\$204	1100AT-R	3"	\$238	1100AT	3"	\$258
1100-RN	2"	\$230	1100-N	2"	\$250	1100AT-RN	3"	\$284	1100AT-N	3"	\$304
1100-RNX	2"	\$250	1100-NX	2"	\$270	1100AT-RNX	3"	\$304	1100AT-NX	3"	\$324
1100A-R	3"	\$207	1100A	3"	\$227	1100T-R	4"	\$273	1100T	4"	\$293
1100A-RN	3"	\$253	1100A-N	3"	\$273	1100T-RN	4"	\$319	1100T-N	4"	\$339
1100A-RNX	3"	\$273	1100A-NX	3"	\$293	1100T-RNX	4"	\$339	1100T-NX	4"	\$359
1100L-R	4"	\$239	1100L	4"	\$259	1100V-R †	2"	\$432	1100V †	2"	\$452
1100L-RN	4"	\$285	1100L-N	4"	\$305	1100V-RN †	2"	\$478	1100V-N †	2"	\$498
1100L-RNX	4"	\$305	1100L-NX	4"	\$325	1100V-RNX †	2"	\$498	1100V-NX †	2"	\$518

Stainless Steel, Square-End Weld Housing					
Part No. w/Reflex Lens	Length In.	List Price	Part No. w/Clear Lens	Length In.	List Price
1100S-R	2"	\$462	1100S	2"	\$482
1100S-RN	2"	\$508	1100S-N	2"	\$528
1100S-RNX	2"	\$528	1100S-NX	2"	\$548
1100LS-R	4"	\$568	1100LS	4"	\$588
1100LS-RN	4"	\$614	1100LS-N	4"	\$634
1100LS-RNX	4"	\$634	1100LS-NX	4"	\$654

Stainless Steel, Saddle Milled Weld Housing					
Part No. w/Reflex Lens	Length In.	List Price	Part No. w/Clear Lens	Length In.	List Price
1100SC-R	2"	\$476	1100SC	2"	\$496
1100SC-RN	2"	\$522	1100SC-N	2"	\$541
1100SC-RNX	2"	\$542	1100SC-NX	2"	\$561
1100LSC-R	4"	\$582	1100LSC	4"	\$601
1100LSC-RN	4"	\$628	1100LSC-N	4"	\$647
1100LSC-RNX	4"	\$648	1100LSC-NX	4"	\$667

Carbon Steel, Saddle-Milled Weld Housing					
Part No. w/Reflex Lens	Length In.	List Price	Part No. w/Clear Lens	Length In.	List Price
1100C-R	2"	\$198	1100C	2"	\$218
1100C-RN	2"	\$244	1100C-N	2"	\$264
1100C-RNX	2"	\$264	1100C-NX	2"	\$284
1100LC-R	4"	\$253	1100LC	4"	\$273
1100LC-RN	4"	\$299	1100LC-N	4"	\$319
1100LC-RNX	4"	\$319	1100LC-NX	4"	\$339

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

NOTE: Teflon gaskets available for all Level Eyes. Add \$40

3" PROBE-READY COLUMN CAP (Flat beveled cap, w/3/4" threaded hole)	
Part No.	List Price
3-3061	\$95

INJECTORS (LIQUID RECIRCULATING) REF: BULLETIN VB-22E-01	
Injector No.	List Price
2020SL	\$536
2100SL	\$694
2100SLD	\$1,228
2075WCB	\$938
2100WCB	\$978
2100WCBA	\$978
2125WA	\$956
2150WA	\$1,212
2200WA	\$2,284
2250WA	\$3,279

FLOAT SWITCHES (SS Chamber)	
Part No.	List Price
HAPSS	\$1,541
HAPSS-1*	\$2,063
REPLACEMENT SWITCH ASSY	
HAPSW†	\$814
INTERNAL FLOAT SWITCH	
HAP85	\$2,055

*Level Eye welded on chamber
†includes DIN connection

GAUGES 1/4" MPT, LIQUID FILLED	
AMMONIA, w/TEMP SCALE	
Part No.	List Price
30"-150 psi, 2-1/2" Dia.	
88-020	\$124
30"-300 psi, 2-1/2" Dia.	
88-021	\$124
30"-150 psi, 4" Dia.	
88-024	\$186
30"-300 psi, 4" Dia.	
88-025	\$186
GENERIC, NO TEMP SCALE	
30"-150 psi, 2-1/2" Dia.	
88-026	\$162
30"-400 psi, 2-1/2" Dia.	
88-027	\$162

LEVEL EYE TAP (For chasing worn/crossed threads)	
LEVEL EYE TAP*	List Price
	\$1,150

* Also available for lease - contact factory

LEVEL EYE TORQUE TOOL (Stainless Steel, fits 1/2" drive)	
Part No.	List Price
LEVELEYETOOL	\$216

FILTERS/STRAINERS REF: BULLETIN VB-22E-01		
Filter Number	List Price	w/IPS flanges*
510-1/2" FPT angle	\$274	-
510-3/4" FPT angle	\$274	-
575-3/4" FPT angle	\$556	-
575-1" FPT angle	\$556	-
575-1-1/4" FPT angle	\$556	-
S701JRP, 1/2" or 3/4"	\$315	\$430
S701, 1"	\$405	\$560
S701A, 2"	\$878	\$1,094
S701B, 3"	\$1,493	\$1,772

*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-22E-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	\$51	4-MT or 4FT	\$60	N/A	-	KF075	\$13
3/4" oval	6-MS or 6-FS	\$51	6-MT or 6FT	\$60	N/A	-	KF075	\$13
1" oval	8-MSO or 8-FSO	\$57	8-MTO or 8-FTO	\$67	N/A	-	KFO100	\$13
1" sq.	8-MS or 8-FS	\$69	8-MT or 8-FT	\$79	N/A	-	KF125	\$17
1-1/4" sq.	10-MS or 10-FS	\$69	10-MT or 10FT	\$79	10-MW or 10-FW	\$188	KF125	\$17
1-1/2" sq.	12-MS or 12-FS	\$95	12-MT or 12-FT	\$114	12-MW or 12-FW	\$236	KF150	\$17
2" sq.	16-MS or 16-FS	\$95	16-MT or 16-FT	\$114	16-MW or 16-FW	\$240	KF200	\$26
2-1/2" sq.	20-MS or 20-FS	\$109	N/A	-	20-MW or 20-FW	\$273	KF250	\$46
3" sq.	24-MS or 24-FS	\$116	N/A	-	24-MW or 24-FW	\$318	KF300	\$47
4" sq.	32-MS or 32-FS	\$133	N/A	-	32-MW or 32-FW	\$397	KF400	\$49
5" rd.	40-MS or 40-FS	\$351	N/A	-	40-MW or 40-FW	\$660	KF500	\$95
5" rd. York	40-MSY or 40-FSY	\$365	N/A	-	40-MWY or 40-FWY	\$674	KF500Y	\$95
6" rd.	48-MS or 48-FS	\$392	N/A	-	48-MW or 48-FW	\$762	KF600	\$96
6" rd. York	48-MSY or 48-FSY	\$405	N/A	-	48-MWY or 48-FWY	\$776	KF600Y	\$96
8" rd.	64-MS or 64-FS	\$2,000	N/A	-	64-MW or 64-FW	\$2,245	KF800	\$98
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

UNION KIT INCLUDES:

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

FLANGED UNIONS TONGUE & GROOVE

REF: BULLETIN VB-22E-01

Size	Socket Weld		Threaded		Weld Neck	
	Part No.	List Price	Part No.	List Price	Part No.	List Price
1/2" oval	U-4S	\$115	U-4T	\$133	N/A	-
3/4" oval	U-6S	\$115	U-6T	\$133	N/A	-
1" oval	U-8SO	\$127	U-8TO	\$147	N/A	-
1" sq.	U-8S	\$155	U-8T	\$175	N/A	-
1-1/4" sq.	U-10S	\$155	U-10T	\$175	U-10W	\$393
1-1/2" sq.	U-12S	\$207	U-12T	\$245	U-12W	\$489
2" sq.	U-16S	\$216	U-16T	\$254	U-16W	\$506
2-1/2" sq.	U-20S	\$264	N/A	-	U-20W	\$592
3" sq.	U-24S	\$279	N/A	-	U-24W	\$683
4" sq.	U-32S	\$315	N/A	-	U-32W	\$843
5" rd.	U-40S	\$797	N/A	-	U-40W	\$1,415
5" rd. York	U-40SY	\$825	N/A	-	U-40WY	\$1,443
6" rd.	U-48S	\$880	N/A	-	U-48W	\$1,620
6" rd. York	U-48SY	\$906	N/A	-	U-48WY	\$1,648
8" rd.	U-64S	\$4,098	N/A	-	U-64W	\$4,588
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	\$199
ANH-AS	Sampling stand kit, incl. (1) ANH-MS, stand, feed/vent assy, storage case	\$1,263

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

REF: BULLETIN VB-22E-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"*	\$1,266	\$1,581	\$1,151	\$238	\$1,080	\$2,298	\$673	\$313
700XH	1", 1 1/4"	\$1,392	\$1,797	\$1,237	\$238	\$1,080	\$2,298	\$673	\$313
700AXH	1 1/2", 2"	\$2,125	\$3,003	\$1,909	\$290	\$1,080	\$2,298	\$673	\$313
700BXH	3" **	\$3,290	\$4,783	\$3,011	\$404	\$1,080	\$2,298	\$673	\$313

FOR USE WITH HALOCARBONS

700JRHF	1/2", 3/4", 1"* (IPS)	\$1,266	\$1,581	\$1,151	\$238	\$1,232	\$2,450	\$825	\$521
	1 1/8", 1 3/8" (ODC)	\$1,622	\$1,937	\$1,151	N/A	\$1,232	\$2,450	\$825	\$521
700XHF	1", 1 1/4" (IPS)	\$1,392	\$1,797	\$1,237	\$238	\$1,232	\$2,450	\$825	\$521
	1 5/8" (ODC)	\$1,733	\$2,138	\$1,237	N/A	\$1,232	\$2,450	\$825	\$521
700AXHF	1 1/2", 2" (IPS)	\$2,125	\$3,003	\$1,909	\$290	\$1,232	\$2,450	\$825	\$521
	2 1/8" (ODC)	\$2,411	\$3,289	\$1,909	N/A	\$1,232	\$2,450	\$825	\$521
700BXHF	3" (IPS)**	\$3,290	\$4,783	\$3,011	\$404	\$1,232	\$2,450	\$825	\$521
	3 1/8" (ODC)	\$3,822	\$5,315	\$3,011	N/A	\$1,232	\$2,450	\$825	\$521

NOTE: Pilot Line Kit for 1/4" pipe: **PLK-1/4 \$313 LIST**

For 3/8" tube: **PLK-3/8 \$521 LIST**

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

*Available 1" SW or FPT flanges, add **\$12 LIST**

** Socket weld or weld neck only

ORDERING INSTRUCTIONS:

For Pilot Valve:

1. Pilot Operated Valve Number
2. Orifice Size
3. Metering Plug
4. Spring
5. Flange Size, Type
6. Strainer (if required)
7. Serial Number, if replacement

For Pilot Float Valve:

1. Orifice Size
2. Chamber requirements

FOR FACTORY SELECTION ASSISTANCE, ADVISE:

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

**HIGH SIDE FLOAT VALVES
SERIES 270A**

REF: BULLETIN VB-22E-01

Valve Number	Valve w/ Chamber		Valve Only (Zinc Plated)
	Cast	Steel	
FOR USE WITH AMMONIA (R717)			
270A	\$1,044	\$2,262	\$637
270AX	\$1,730	\$2,948	\$1,323
270AY	\$2,326	\$3,544	\$1,919
270AZAZ	N/A	N/A	\$931
FOR USE WITH HALOCARBONS			
270AF	\$1,044	\$2,262	\$637
270AXF	\$1,730	\$2,948	\$1,323
270AYF	\$2,326	\$3,544	\$1,919
MOUNTING FLANGE (FOR SERIES 270A) 2-1/2" SOCKET WELD			
Flange Number	List Price		
298A	\$164		

**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	\$5,320	\$6,486
RC-075	\$5,370	\$6,563
RC-100	\$5,681	\$6,874
RC-125	\$5,892	\$7,085
RC-150	\$7,493	\$8,686
RC-200	\$7,776	\$9,313
RC-250	\$8,473	\$10,820
RC-300	\$10,818	\$13,537
RC-400	\$11,478	\$15,020

* 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-18E-01.

ORDERING INSTRUCTIONS:

Same as above for Pilot Valve and Pilot Float Valve.

**THREE-WAY VALVES
SERIES 3000
REF: BULLETIN VB-22E-01**

Valve Number	List Price (Zinc Plated)
3000N-3/4"	\$2,769
3000AN-1-1/4"	\$3,844

NOTE: Optional Pilot Light Coil, Add \$54

ORDERING INSTRUCTIONS:

1. Voltage
2. Hertz

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

REF: BULLETIN VB-22E-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"¥	\$310	\$238	\$195
600J	1 1/4" 1 1/2"	\$449	\$282	\$242
600AJ	1 1/2", 2"	\$648	\$290	\$432
600BJ*	3"	\$1,174	\$404	\$895
600DJ*	4"	\$1,704	\$528	\$1,389
ALL STEEL BODY				
600K*	1", 1 1/4"	\$536	\$238	\$381
600AK*	1 1/2", 2"	\$713	\$290	\$497

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

ORDERING INSTRUCTIONS:

¥Available 1" SW or FPT flanges, add **\$12 LIST**

1. Valve Number
2. Flange Size, Type
2. Flange Size and Type

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

REF: BULLETIN VB-22E-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 1/8", 1 3/8" (ODC)	\$613	\$238	\$969	\$498	S701JRP
700X	1", 1 1/4" (IPS) 1 1/8" (ODC)	\$771	\$238	\$1,112	\$616	S701
700AX	1 1/2", 2" (IPS) 2 1/8" (ODC)	\$1,179	\$290	\$1,465	\$963	S701A
700BX	3" (IPS) 3 1/8" (ODC)	\$1,731	\$404	\$2,263	\$1,452	S701B

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

*Available 1" SW or FPT flanges, add **\$12 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-22E-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	1/2", 3/4", 1" (IPS) 1/8", 1/4" (ODC)	\$704	\$238	\$1,060	\$589	S701JRP
700XS	1", 1 1/4" (IPS) 1/8" (ODC)	\$853	\$238	\$1,194	\$698	S701
700AXS	1 1/2", 2" (IPS) 2/8" (ODC)	\$1,281	\$290	\$1,567	\$1,065	S701A
700BXS	3" (IPS)** 3/8" (ODC)	\$1,808	\$404	\$2,340	\$1,529	S701B

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

*Available 1" SW or FPT flanges, add **\$12 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 1/4" (IPS) 1/8" (ODC)	\$950	\$238	\$1,266	\$795	S701
700AXT	1 1/2", 2" (IPS) 2/8" (ODC)	\$1,616	\$290	\$1,902	\$1,400	S701A
700BXT	3" (IPS)** 3/8" (ODC)	\$2,492	\$404	\$3,024	\$2,213	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 1/2", 2" (IPS) 2/8" (ODC)	\$1,513	\$290	\$1,799	\$1,297	S701A
700BP	3" (IPS)** 3/8" (ODC)	\$2,329	\$404	\$2,861	\$2,050	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-22E-01

Valve Number	List Price (Zinc Plated)	Valve Number	List Price (Zinc Plated)
FOR USE WITH AMMONIA (R717)		FOR USE WITH HALOCARBONS	
300H	\$1,114	300HF	\$1,190
300HD	\$1,140	300HDF	\$1,216
300HM	\$1,145	300HMF	\$1,221
300HMD	\$1,170	300HMDF	\$1,246
300A	\$1,477	300AF	\$1,557
300AM	\$1,527	300AMF	\$1,607

Note: Valves can be applied as pilots for Series 701 Pilot Operated Valves. Add \$1470 for 398A Steel Chamber

**LOW SIDE FLOAT VALVES
FIXED LEVEL - REMOTE FEED
(INTERNAL MOUNT)
SERIES 301H**
REF: BULLETIN VB-22E-01

Valve Number	List Price (Zinc Plated)
FOR USE WITH AMMONIA (R717)	
301H	\$2,056
301A	\$2,082
FOR USE WITH HALOCARBONS	
301HF	\$2,136

**LOW SIDE FLOAT VALVES
FIXED LEVEL - REMOTE FEED
(EXTERNAL MOUNT)
SERIES 301E**
REF: BULLETIN VB-22E-01

Valve Number	Valve Only (Zinc Plated)	Valve w/ Chamber
FOR USE WITH AMMONIA (R717)		
301E	\$1,117	\$2,587
301G	\$1,337	\$2,807
301J	\$1,598	\$3,068
301K	\$1,650	\$3,120
FOR USE WITH HALOCARBONS		
301EF	\$1,197	\$2,667
301GF	\$1,417	\$2,887
301JF	\$1,678	\$3,148

**MOUNTING FLANGES
(FOR SERIES 300 & 301)**

Flange Number	List Price
399 (3" F.P.T.)	\$173
300WF3 (3" S.W.)	\$207

SPECIAL APPLICATION

Valve Number	Valve Only (Zinc Plated)
300WAXF	\$1,508
300WCB	\$1,223

OIL FLOAT VALVES

**LOW SIDE OIL FEED VALVE
(FOR ALL REFRIGERANT OILS)
SERIES 275**
REF: BULLETIN VB-22E-01

Valve Number	Valve w/Chamber		Valve Only (Zinc Plated)
	Cast	Steel	
275AF	\$1,033	\$2,251	\$626
MOUNTING FLANGE 2-1/2" SOCKET WELD			
Flange Number	List Price		
298A	\$164		

- 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-22E-01

Valve Number	Valve w/Chamber		Valve Only (Zinc Plated)
	Cast	Steel	
270A	\$1,044	\$2,262	\$637
MOUNTING FLANGE 2-1/2" SOCKET WELD			
Flange Number	List Price		
298A	\$164		

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-22E-01**

Valve Number	Valve Only (Zinc Plated)	Valve w/ Chamber
FOR USE WITH AMMONIA (R717)		
101	\$2,010	\$4,042
101A	\$2,235	\$4,864
FOR USE WITH HALOCARBONS		
101F	\$2,057	\$4,089
101AF	\$2,329	\$4,958

+ See below for ordering instructions

**LOW SIDE FLOAT VALVES
SERIES 101
SPECIAL APPLICATIONS
REF: BULLETIN VB-22E-01**

Valve Number	Valve Only (Zinc Plated)
FOR USE WITH AMMONIA (R717)	
101CPS	\$2,382
FOR USE WITH HALOCARBONS	
101CPSF	\$2,413

**PILOT OPERATED VALVE WITH
LOW SIDE ADJUSTABLE LEVEL PILOT FLOAT VALVES
REF: BULLETIN VB-22E-01**

FOR USE WITH AMMONIA (R717)										
701S Pilot Operated Valve							101 Pilot Float Valve			
Pilot Operated Valve	Series 701 Port	Strainer	Available Connections		Valve Only (Zinc Plated)	add for W.N. Flgs.	Valve and Orifice Size (in.)	with Chamber	Valve Only (Zinc Plated)	
			IPS - Thd. or Socket, ODC (Copper Connectors)	with Flanges						w/ Flanged Strainer
701JRS	3/8", 9/16"	S701JR	1/2", 3/4", 1"	\$1,322	\$1,637	\$1,207	\$238	101VP18 - 3/32"	\$4,042	\$2,010
701S	9/16", 23/32"	S701	1", 1 1/4"	\$1,448	\$1,853	\$1,293	\$238	101VP18 - 3/32"	\$4,042	\$2,010
701AS	7/8", 23/32"	S701A	1 1/2", 2"	\$2,256	\$3,134	\$2,040	\$290	101VP26 - 1/8"	\$4,864	\$2,235
701BS	1 1/4"	S701B	3" (SW or WN)	\$4,219	\$5,712	\$3,940	\$404	101VP26 - 5/32"	\$4,864	\$2,235
701BXS	1 9/16"	S701B	4" (Weld Neck)	\$5,066	\$6,559	\$4,383	N/A	101VP26 - 3/16"	\$4,864	\$2,235

FOR USE WITH HALOCARBONS										
701S Pilot Operated Valve							101 Pilot Float Valve			
Pilot Operated Valve	Series 701 Port	Strainer	Available Connections		Valve Only (Zinc Plated)	add for W.N. Flgs.	Valve and Orifice Size (in.)	with Chamber	Valve Only (Zinc Plated)	
			IPS - THD. or Socket, ODC (Copper Connectors)	with Flanges						w/ Flanged Strainer
701JRFS	3/8", 9/16"	S701JR	1/2", 3/4" (IPS), 1"*	\$1,322	\$1,637	\$1,207	\$238	101VPF18 - 3/32"	\$4,089	\$2,057
			1 1/8", 1 3/8" (ODC)	\$1,678	\$1,993	\$1,207	N/A		\$4,089	\$2,057
701SF	9/16", 23/32"	S701	1", 1 1/4"	\$1,448	\$1,853	\$1,293	\$238	101VPF18 - 3/32"	\$4,089	\$2,057
			1 5/8" (ODC)	\$1,789	\$2,194	\$1,293	N/A		\$4,089	\$2,057
701ASF	7/8", 23/32"	S701A	1 1/2", 2" (IPS)	\$2,256	\$3,134	\$2,040	\$290	101VPF26 - 1/8"	\$4,958	\$2,329
			2 1/8" (ODC)	\$2,542	\$3,420	\$2,040	N/A		\$4,958	\$2,329
701BSF	1 1/4"	S701B	3" (IPS) SW or WN	\$4,219	\$5,712	\$3,940	\$404	101VPF26 - 5/32"	\$4,958	\$2,329
			3 1/8" (ODC)	\$4,751	\$6,244	\$3,940	N/A		\$4,958	\$2,329
701BXS	1 9/16"	S701B	4" (Weld Neck)	\$5,066	\$6,559	\$4,383	N/A	101VPF26 - 3/16"	\$4,958	\$2,329

*Available w/ 1" SW or FPT flanges, add \$12 LIST

NOTE: Pilot Line Kit available for 1/4" pipe PLK-1/4, \$313; for 3/8" tubing PLK-3/8, \$521
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-22E-01		
Valve Number	Valve Only (Zinc Plated)	Valve w/ Chamber
FOR USE WITH AMMONIA (R717)		
301E	\$1,117	\$2,587
301G	\$1,337	\$2,807
301J	\$1,598	\$3,068
301K	\$1,650	\$3,120
FOR USE WITH HALOCARBONS		
301EF	\$1,197	\$2,667
301GF	\$1,417	\$2,887
301JF	\$1,678	\$3,148

PILOT OPERATED VALVE WITH LOW SIDE FIXED LEVEL PILOT FLOAT VALVE REF: BULLETIN VB-22E-01											
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)							Chamber	Valve Only (Zinc Plated)
701JRS	3/8", 9/16"	S701JR	1/2", 3/4", 1" *	\$1,322	\$1,637	\$1,207	\$238	301E	3/32", 1/8"	\$2,587	\$1,117
701S	9/16", 23/32"	S701	1", 1 1/4"	\$1,448	\$1,853	\$1,293	\$238	301E	3/32", 1/8"	\$2,587	\$1,117
701AS	7/8", 23/32"	S701A	1 1/2", 2"	\$2,256	\$3,134	\$2,040	\$290	301E	1/8"	\$2,587	\$1,117
701BS	1 1/4"	S701B	3" (SW or WN)	\$4,219	\$5,712	\$3,940	\$404	301G	5/32"	\$2,807	\$1,337
701BXS	1 9/16"	S701B	4" (Weld neck)	\$5,066	\$6,559	\$4,383	N/A	301J	3/16"	\$3,068	\$1,598

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)							Chamber	Valve Only (Zinc Plated)
701JRSF	3/8", 9/16"	S701JR	1/2", 3/4", 1" (IPS) *	\$1,322	\$1,637	\$1,207	\$238	301EF	3/32", 1/8"	\$2,667	\$1,197
			1 1/8", 1 3/8" (ODC)	\$1,678	\$1,993	\$1,207	N/A			\$2,667	\$1,197
701SF	9/16", 23/32"	S701	1", 1 1/4" (IPS)	\$1,448	\$1,853	\$1,293	\$238	301EF	3/32", 1/8"	\$2,667	\$1,197
			1 5/8" (ODC)	\$1,789	\$2,194	\$1,293	N/A			\$2,667	\$1,197
701ASF	7/8", 23/32"	S701A	1 1/2", 2" (IPS)	\$2,256	\$3,134	\$2,040	\$290	301EF	1/8"	\$2,667	\$1,197
			2 1/8" (ODC)	\$2,542	\$3,420	\$2,040	N/A			\$2,667	\$1,197
701BSF	1 1/4"	S701B	3" (IPS) SW or WN	\$4,219	\$5,712	\$3,940	\$404	301GF	5/32"	\$2,887	\$1,417
			3 1/8" (ODC)	\$4,751	\$6,244	\$3,940	N/A			\$2,887	\$1,417
701BXS F	1 9/16"	S701B	4" (Weld Neck)	\$5,066	\$6,559	\$4,383	N/A	301JF	3/16"	\$3,148	\$1,678

*Available with 1" SW or FPT flanges, add \$12 LIST

NOTE: Pilot Line Kit available for 1/4" pipe PLK-1/4, \$313; for 3/8" tubing, \$521

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

K100	2S & 3S Seat & Needle; 19 Gasket (2); 63 Gasket; 5-2 Spring
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; 5-30 Spring
K210	310 Cartridge; 308 pusher; 725 Gasket
K210A	310A Cartridge; 308A Pusher; 725 Gasket
K270A1	262 & 403S Seat & Needle; 73 Gasket; 224 Hex Jam Nut; 55 Washer; 411 Pin; 11S Spacers
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 92)
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 Rubber Gasket; 1104 Fiber Gasket
K1100R	1101R Reflex Glass; 1103 Rubber Gasket; 1104 Fiber Gasket
K3000	3003JR & 3003 Seat Discs; 3012JRL & 3012L Push Rods; 3013 & 3013JR Nuts; 3010JR, 3010 & 3010N Gaskets; 705L Spring; 11-012 & 107 O-rings; 027F0666 Seal Kit
K3000PS	3003JR & 3003 Seat Discs; 3012JRL & 3012L Push Rods; 3013 & 3013JR Nuts; 3010JR, 3010 & 3010N Gaskets; 705L Spring; 3004 & 3004JR Pistons; 3006 & 3006JR Seats; 11-012 & 107 O-rings; 027B1120 Solenoid
K3000A	3003A & 3003B Seat Discs; 3012A & 3012B Push Rods; 710A, 710B & 3010AN Gaskets; 705AL Spring; 11-012 & 107 O-rings; 027F0666 Seal Kit
K3000APS	3003A & 3003B Seat Discs; 3012A & 3012B Push Rods; 710A, 710B & 3010AN Gaskets; 705AL Spring; plus 3004A & 3004B Pistons; 3006A & 3006B Seats; 11-012 & 107 O-rings; 027B1120 Solenoid

VALVE PARTS KITS: MISCELLANEOUS			
Kit Catalog No.	For Valve	Orifice Size (In.)	List Price
K100	100; 100VP	$\frac{1}{16}$ to $\frac{5}{32}$; $\frac{3}{16}$	\$564
K101AB	101AB	$\frac{3}{8}$; $\frac{1}{2}$	\$1,027
K101ABF	101ABF	$\frac{3}{8}$; $\frac{1}{2}$	\$1,030
K101B	101B	$\frac{3}{8}$; $\frac{1}{2}$; $\frac{5}{8}$	\$1,038
K101BF	101BF	$\frac{3}{8}$; $\frac{1}{2}$; $\frac{5}{8}$	\$1,038
K152K	101, 101VP18	$\frac{5}{64}$ to $\frac{5}{32}$; $\frac{3}{16}$	\$664
K152K26	101VP-26" chamber	$\frac{1}{8}$; $\frac{5}{32}$; $\frac{3}{16}$	\$651
K152KF18	101F; 101VPF-18" chamber	$\frac{5}{64}$ to $\frac{5}{32}$; $\frac{3}{16}$	\$651
K152KF26	101VPF-26" chamber	$\frac{1}{8}$; $\frac{5}{32}$; $\frac{3}{16}$	\$684
K152KCP	101CP	$\frac{5}{64}$ to $\frac{5}{32}$; $\frac{3}{16}$	\$651
K152KCPF	101CPF	$\frac{5}{64}$ to $\frac{5}{32}$; $\frac{3}{16}$	\$684
K152L	101A	$\frac{3}{16}$; $\frac{1}{4}$; $\frac{5}{16}$; $\frac{3}{8}$; $\frac{13}{32}$	\$911
K152L18	101A-18" chamber	$\frac{1}{4}$	\$924
K152LF	101AF	$\frac{1}{4}$; $\frac{5}{16}$; $\frac{3}{8}$; $\frac{13}{32}$	\$911
K152LF18	101F-18" chamber	$\frac{1}{4}$	\$911
K152LCP	101CP	$\frac{1}{4}$; $\frac{5}{16}$; $\frac{3}{8}$	\$911
K152LCPF	101CPF	$\frac{1}{4}$; $\frac{5}{16}$; $\frac{3}{8}$	\$944
K210	210	$\frac{3}{32}$ to $\frac{9}{64}$	\$490
K210A	210A	$\frac{5}{32}$; $\frac{3}{16}$; $\frac{7}{32}$	\$540
K270A1	270A, 270AF, 275AF	$\frac{1}{16}$; $\frac{5}{64}$; $\frac{3}{32}$	\$445
K270A2	270A, 270AF, 275AF	$\frac{1}{8}$; $\frac{3}{16}$	\$502
K270AX	270AX	$\frac{13}{64}$	\$502
K270AY	270AY	$\frac{3}{8}$	\$1,336
K270AZ	270AZ; 270AZA; 270AZAZ	0.234	\$692
K275AP1	275AP; 275APF	$\frac{1}{16}$; $\frac{5}{64}$; $\frac{3}{32}$	\$445
K275AP2	275AP; 275APF	$\frac{1}{8}$; $\frac{3}{16}$	\$502
K280	225; 225B; 250; 250CB; 250P; 250L; 250VPF; 251CP	$\frac{5}{64}$ to $\frac{5}{32}$	\$725
K280-6	250VP (R717 only)	$\frac{7}{64}$; $\frac{9}{64}$; $\frac{5}{32}$	\$725
K310	300; 300H; 300HM; 300J; 300P; 300Y; 301E	$\frac{5}{64}$; $\frac{3}{32}$; $\frac{7}{64}$; $\frac{1}{8}$; $\frac{9}{64}$	\$495
K310A	300A; 300AM; 300YA; 301G	$\frac{5}{32}$; $\frac{3}{16}$; $\frac{7}{32}$	\$538
K310AX	300A; 300AM; 301G	$\frac{9}{32}$	\$918
K355	301; 301H; 301J; 301K; 301D; 301A	$\frac{3}{16}$; $\frac{7}{32}$; $\frac{9}{32}$	\$1,018

*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 $\frac{1}{4}$	\$201
K600S	600; 600K	1, 1 $\frac{1}{4}$	\$201
K600A	600A; 600AK	1 $\frac{1}{2}$, 2	\$286
K600AJ	600AJ	1 $\frac{1}{2}$, 2	\$236
K600AS	600A; 600AK	1 $\frac{1}{2}$, 2	\$286
K600BJ	600BJ	3	\$553
K600BJS	600BJS	3	\$566
K600DJ	600DJ	4	\$567
K600J	600J	1 $\frac{1}{4}$, 1 $\frac{1}{2}$	\$150
K600JR	600JR	$\frac{1}{2}$, $\frac{3}{4}$, 1	\$110

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	$\frac{1}{2}$; $\frac{3}{4}$	\$47
K700	700; 700S; 700H	1, 1 $\frac{1}{4}$	\$72
K700A	700A; 700AS; 700AH	1 $\frac{1}{2}$, 2	\$304
K700B	700B; 700BS; 700BH	3	\$245
K700X	700X; 700XS; 700XH	1, 1 $\frac{1}{4}$	\$61
K700AX	700AX; 700AXS; 700AXH	1 $\frac{1}{2}$, 2	\$74
K700BX	700BX; 700BXS; 700BXH	3	\$135

KITS: LOW SIDE PILOT OPERATED VALVES			
Kit Catalog No.	For Valve	Line Size (in.)	List Price
K701JR	701JR; 701JRS	$\frac{1}{2}$; $\frac{3}{4}$	\$49
K701	701; 701S	1, 1 $\frac{1}{4}$	\$59
K701A	701A; 701AS	1 $\frac{1}{2}$, 2	\$72
K701B	701B; 701BS	3	\$105

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	3000 & 3000N	$\frac{3}{4}$	\$278
K3000PS	3000 & 3000N	$\frac{3}{4}$	\$1,027
K3000A	3000A	1 $\frac{1}{4}$	\$412
K3000APS	3000A	1 $\frac{1}{4}$	\$1,509

*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 $\frac{1}{4}$	\$661
K700AXT	700AXT	1 $\frac{1}{2}$, 2	\$1,064
K700BXT	700BXT	3	\$1,741

KITS: LEVEL EYE®		
Kit Catalog No.	For Level Eye®	List Price
K1100	Clear Level Eye®	\$117
K1100R	Reflex Level Eye®	\$97
K1100-T	Clear Level Eye® w/Teflon Gasket	\$157
K1100R-T	Reflex Level Eye® w/Teflon Gasket	\$137

KITS: INTERRUPTING VALVES			
Kit Catalog No.	For Valve	Line Size (in.)	List Price
K700AP	700AP	1 $\frac{1}{2}$, 2	\$429
K700BP	700BP	3	\$991

REPLACEMENT PARTS

PART NO.	DESCRIPTION	LIST PRICE	PART NO.	DESCRIPTION	LIST PRICE	PART NO.	DESCRIPTION	LIST PRICE
2S3S-	SEAT & NEEDLE	\$470	67-8"	FLOAT	\$774	273AY	GLAND	\$268
2S403S-	SEAT & NEEDLE	\$372	67-16"	FLOAT	\$825	273M	GLAND	\$147
4	ADJUSTING NUT	\$57	67F-8"	FLOAT	\$722	273X	BOSS	\$115
4B	ADJUSTING NUT	\$57	67F-16"	FLOAT	\$791	275	FLOAT BLOCK	\$136
5G	GASKET	\$22	68-8"	FLOAT	\$823	276	LEVER	\$52
5GY	GASKET	\$22	68F-8"	FLOAT	\$872	277	LINK	\$99
5-2	SPRING	\$73	68F-12"	FLOAT	\$1,128	278	LINK	\$99
5-2A	SPRING	\$24	69	FLOAT	\$1,462	280-	CARTRIDGE	\$718
5-30A	SPRING	\$11	72	BOLT	\$7	281M	SCREEN	\$8
5-60L	SPRING	\$44	73	GASKET	\$12	284	ROD	\$30
5-61	SPRING	\$13	73L	GASKET	\$12	285A	SPRING	\$9
5AB45	SPRING	\$44	74	GASKET	\$10	289	GASKET	\$9
6	SPRING CONE	\$39	75K	O-RING	\$13	290S	STOP	\$18
6G	GASKET	\$25	79	FLOAT	\$293	291	CAP	\$88
6GY	GASKET	\$27	84	PIPE PLUG	\$9	292	GASKET	\$11
6T	SPRING CONE	\$52	87	LOCK NUT	\$6	293	GLAND	\$15
7	STEM	\$138	87S	LOCK NUT	\$15	294	STEM	\$103
7B	STEM	\$70	88	LOCK NUT	\$7	296	SCREW	\$11
8	GLAND	\$35	90P	PIPE PLUG	\$24	299A	CHAMBER	\$406
8B	GLAND	\$96	107	O-RING	\$7	302D	DISC	\$39
9AP	BONNET	\$540	108	O-RING	\$7	304	FOLLOWER	\$7
9B	BONNET	\$304	151B	GLAND	\$136	304A	FOLLOWER	\$9
9BF	BONNET	\$960	152B&153B-	SEAT & PLUNGER	\$965	305A	SPRING	\$5
9BP	BONNET	\$960	152KCP-	CARTRIDGE	\$626	307	BOSS	\$165
9F	BONNET	\$254	152LCP-	CARTRIDGE	\$886	307A	BOSS	\$268
10	LEVER	\$167	153B	PLUNGER ASSY	\$809	307ACB	BOSS	\$177
10B	LEVER	\$298	204E	ADJUSTING NUT	\$47	307B	BOSS	\$275
10CP	LEVER	\$247	211	SPRING PIN	\$7	307E	BOSS	\$282
10-11-1/2	LEVER	\$174	211AY	SPRING PIN	\$7	307G	BOSS	\$160
10-8-1/2-101	LEVER	\$174	211X	SPRING PIN	\$7	307H	BOSS	\$278
10-8-1/2-101A	LEVER	\$174	213A	FLOAT BLOCK	\$186	307J	BOSS	\$160
11	LEVER PIN	\$13	215CB	FLOAT BLOCK	\$151	308	PUSHER	\$82
11&SPACERS	LEVER PIN	\$28	220	FLOAT	\$331	308A	PUSHER	\$98
11B	LEVER PIN	\$15	220A	FLOAT	\$168	308ACB	PUSHER	\$409
11S	LEVER PIN	\$20	220PS	FLOAT	\$834	309	GASKET	\$6
11-012	O-RING	\$4	220PSF	FLOAT	\$1,044	309A	GASKET	\$5
11-210/11-215	O-RING	\$11	224	LOCK NUT	\$9	310-	CARTRIDGE	\$399
11-222	O-RING	\$15	227	CAP SCREW	\$6	310A-	CARTRIDGE	\$433
11-225/11-229	O-RING	\$15	228	STOP	\$13	310AX	CARTRIDGE	\$502
12	PIPE PLUG	\$9	228A	SCREW	\$15	311A	SCREEN	\$19
13	BUSHING	\$206	230	FLOAT BLOCK	\$87	313	FLOAT ROD	\$74
14	PLUG	\$89	230A	FLOAT BLOCK	\$57	313A	FLOAT ROD	\$107
14CB	PLUG	\$90	230X	FLOAT BLOCK	\$219	313AM	FLOAT ROD	\$96
14NP	PLUG	\$103	230Z	FLOAT BLOCK	\$74	313CP	FLOAT ROD	\$180
15	SPRING	\$15	231	LINK	\$11	313CPS	FLOAT ROD	\$341
16	SPRING CONE	\$29	243CB	FLOAT ROD	\$26	313HM	FLOAT ROD	\$93
18	SCREEN	\$79	261	SEALING WASHER	\$9	313R	FLOAT ROD	\$43
19	GASKET	\$7	262&403S-	SEAT BSHG. & NEEDLE	\$317	314	CAM NEEDLE	\$77
24A	BOLT	\$10	262A&263A-	SEAT BSHG. & NEEDLE	\$374	314A	CAM NEEDLE	\$79
24B	BOLT	\$12	262AY&263AY-	SEAT BSHG. & NEEDLE	\$1,208	314E	CAM NEEDLE	\$83
24C	BOLT	\$14	262AZ&263AZ	SEAT BSHG. & NEEDLE	\$533	314J	CAM NEEDLE	\$79
24D	BOLT	\$14	265AY	SPRING	\$14	315	FLOAT BLOCK	\$107
24E	BOLT	\$12	265C	SPRING	\$15	315ACB	FLOAT BLOCK	\$543
55	LOCK WASHER	\$6	265D-S	SPRING	\$20	315P	FLOAT BLOCK	\$103
55A	LOCK WASHER	\$6	265E	SPRING	\$14	315PA	FLOAT BLOCK	\$168
56	COTTER PIN	\$6	267	FLOAT	\$401	315PM	FLOAT BLOCK	\$203
57	NUT	\$3	267AZAZ	FLOAT	\$729	315R	FLOAT BLOCK	\$148
58	NUT	\$4	267F	FLOAT	\$628	315WA	FLOAT BLOCK	\$149
59	NUT	\$9	267Y	FLOAT	\$628	315WCB	FLOAT BLOCK	\$90
60	NUT	\$6	270M	ADJUSTING NUT	\$35	316	SET SCREW	\$11
62	BOLT	\$4	272AY	PUSHER	\$193	317J	NEEDLE	\$61
63	GASKET	\$7	272M	PUSHER	\$131	318P	STOP	\$46
63W	GASKET	\$7	272X	NEEDLE	\$49	319P	ADJUSTING PIECE	\$15

REPLACEMENT PARTS

PART NO.	DESCRIPTION	LIST PRICE	PART NO.	DESCRIPTION	LIST PRICE	PART NO.	DESCRIPTION	LIST PRICE
321M	FLOAT	\$186	600D2	CHECK VALVE w/FLGS	\$567	700-4BP	PISTON	\$801
321MF	FLOAT	\$234	600D2-2	INNER CHECK VALVE	\$434	700-4BX	PISTON	\$355
321WCB	FLOAT	\$492	600D3	CHECK VALVE w/FLGS	\$1,140	700-4BXH	PISTON	\$595
322	LOCK NUT	\$6	600D3-2	INNER CHECK VALVE	\$908	700-4BXS	PISTON	\$454
324	LOCK NUT	\$6	600D3XT	CHECK VALVE	\$1,455	700-4BXT	PISTON	\$932
324S	LOCK NUT	\$15	601AJ	SNAP RING	\$24	700-4JRH	PISTON	\$316
325	CAP SCREW	\$7	601B	STEM	\$436	700-4JRSS	PISTON	\$394
325WCB	CAP SCREW	\$7	601BJ	SNAP RING	\$29	700-4JRX	PISTON	\$168
326	GASKET	\$13	601DJ	SNAP RING	\$50	700-4X	PISTON	\$168
326KZ	GASKET	\$22	601J	SNAP RING	\$20	700-4XH	PISTON	\$236
326Y	GASKET	\$13	601JR	SNAP RING	\$15	700-4XT	PISTON	\$339
326YA	GASKET	\$20	602A	BACK PLATE	\$236	700-7	FLUSH PLUG	\$46
327P	STEM	\$158	602AJ	BACK PLATE	\$54	700-7AQ	FLUSH PLUG	\$169
328E	GLAND	\$117	602AK	GUIDE PIECE	\$182	700-7AX	FLUSH PLUG	\$72
329	STOP	\$18	602BJ	BACK PLATE	\$262	700-7AXH-	METERING PLUG	\$197
331-15	FLOAT	\$735	602DJ	BACK PLATE	\$364	700-7AXS	FLUSH PLUG	\$88
331-15F	FLOAT	\$767	602K	GUIDE PIECE	\$157	700-7AXT	FLUSH PLUG	\$168
333	PIPE PLUG	\$9	603AJ	TEFLON RING	\$57	700-7BX	FLUSH PLUG	\$245
334CB	CONNECTOR	\$79	603BJ	TEFLON RING	\$79	700-7BXH-	METERING PLUG	\$313
343	FLOAT ROD	\$46	603DJ	TEFLON RING	\$120	700-7BXS	FLUSH PLUG	\$245
343A	FLOAT ROD	\$24	603J	TEFLON RING	\$46	700-7H-	METERING PLUG	\$197
343AZ	FLOAT ROD	\$100	603JR	TEFLON RING	\$26	700-7JR	FLUSH PLUG	\$41
343CP	FLOAT ROD	\$79	604	VALVE PIECE	\$157	700-7JRH-	METERING PLUG	\$151
343D	FLOAT ROD	\$50	604A	VALVE PIECE	\$227	700-7JRS	FLUSH PLUG	\$129
343H	FLOAT ROD	\$79	604AJ	VALVE PIECE	\$186	700-7S	FLUSH PLUG	\$133
343WA	FLOAT ROD	\$151	604B	VALVE PIECE	\$519	700-7T	FLUSH PLUG	\$112
343WCB	FLOAT ROD	\$18	604BJ	VALVE PIECE	\$482	702APN	BONNET	\$1,145
355-	CARTRIDGE	\$1,011	604DJ	VALVE PIECE	\$785	702AS	BONNET	\$304
356	SPRING	\$9	604J	VALVE PIECE	\$110	702BPN	BONNET	\$1,891
357	ADJUSTING SCREW	\$18	604JR	VALVE PIECE	\$76	702BS	BONNET	\$557
358	PUSHER	\$110	605A1	SPRING	\$22	702BT	BONNET	\$497
359	LOCK NUT	\$7	605A4	SPRING	\$20	702BXS	BONNET	\$589
363	PLUG	\$107	605AJ	SPRING	\$26	702JRS	BONNET	\$168
363-510CAP	STRAINER CAP	\$121	605B	SPRING	\$48	702S	BONNET	\$168
363P	STRAINER CAP	\$118	605BJ	SPRING	\$45	702T	BONNET	\$244
364	GASKET	\$20	605BJS	SPRING	\$58	703	SEAT DISC	\$26
365	GASKET	\$7	605DJ	SPRING	\$57	703A	SEAT DISC	\$39
369	ADJUSTING SCREW	\$28	605DJS	SPRING	\$110	703B	SEAT DISC	\$66
369A	STOP SCREW	\$19	605JR	SPRING	\$22	703JR	SEAT DISC	\$26
370A	FLOAT	\$633	608AJ	BACK PLATE RING	\$53	703JRN	SEAT DISC	\$39
370M	FLOAT	\$386	608BJ	BACK PLATE RING	\$64	703BXS	SEAT DISC	\$227
370MF	FLOAT	\$445	608DJ	BACK PLATE RING	\$99	704	PISTON	\$289
377	STEM	\$72	608J	BACK PLATE RING	\$44	704A	PISTON	\$378
398A	CHAMBER	\$1,539	608JR	BACK PLATE RING	\$28	704B	PISTON	\$832
398B	CHAMBER	\$1,539	610B	RETAINER	\$92	704JR	PISTON	\$265
403S	NEEDLE	\$46	626	GASKET	\$5	705	SPRING	\$23
411	LEVER PIN	\$21	700-2	BONNET	\$134	705-1L	SPRING	\$24
411&SPACERS	LEVER PIN	\$28	700-2A	BONNET	\$213	705-5L	SPRING	\$24
411-S	LEVER PIN	\$52	700-2AP	BONNET	\$631	705-10L	SPRING	\$24
431	LINK	\$11	700-2AT	BONNET	\$304	705-20L	SPRING	\$24
431AY	LINK	\$35	700-2B	BONNET	\$488	705-35L	SPRING	\$24
477K	SPRING	\$15	700-2BP	BONNET	\$356	705-35R	SPRING	\$24
477-1	SPRING	\$17	700-3A	SEAT DISC	\$271	705-45L	USE 705-50L	\$24
506	GASKET	\$7	700-3AX	SEAT DISC	\$41	705-50L	SPRING	\$24
515	SPRING	\$31	700-3B	SEAT DISC	\$206	705-60L	SPRING	\$24
516	SPRING CONE	\$45	700-3BX	SEAT DISC	\$96	705-60R	SPRING	\$24
516P	SPRING GUIDE	\$37	700-3X	SEAT DISC	\$28	705-70L	SPRING	\$24
517	SCREEN	\$175	700-4AP	PISTON	\$344	705-90L	SPRING	\$24
517JRP	SCREEN	\$157	700-4AX	PISTON	\$248	705-130L	SPRING	\$24
558	SCREEN	\$144	700-4AXH	PISTON	\$379	705A	SPRING	\$52
576	FLANGE	\$152	700-4AXHS	PISTON	\$445	705A-2L	SPRING	\$52
577	CAP SCREW	\$7	700-4AXS	PISTON	\$289	705A-10L	SPRING	\$52
580	SCREEN	\$331	700-4AXT	PISTON	\$805	705A-20L	SPRING	\$52

REPLACEMENT PARTS

PART NO.	DESCRIPTION	LIST PRICE	PART NO.	DESCRIPTION	LIST PRICE	PART NO.	DESCRIPTION	LIST PRICE
705A-30L	SPRING	\$52	726C	BOLT	\$10	2256WA-	NOZZLE	\$561
705A-60L	SPRING	\$52	726D	BOLT	\$16	3000AN	BONNET ASSY	\$1,313
705A-110L	SPRING	\$52	726E	BOLT	\$21	3002	BONNET	\$188
705A-165L	SPRING	\$52	728	GASKET	\$6	3002A	BONNET	\$247
705A-114	SPRING	\$52	752AQ	SLEEVE	\$839	3002AN	BONNET	\$1,128
705A-171	SPRING	\$52	754AQ	PISTON	\$521	3002JR	BONNET	\$197
705A-270	SPRING	\$52	775	PACKING RING	\$13	3002JRN	BONNET	\$144
705AL	SPRING	\$24	776	RETAINER	\$13	3002NR	BONNET	\$554
705B-3L	SPRING	\$151	777BN	PACKING RING	\$18	3003	SEAT DISC	\$35
705B-10L	SPRING	\$151	1100H	HOUSING	\$140	3003A	SEAT DISC	\$46
705B-15X	SPRING	\$151	1100AH	HOUSING	\$163	3003B	SEAT DISC	\$66
705B-30L	SPRING	\$151	1100LH	HOUSING	\$195	3003JR	SEAT DISC	\$29
705B-60L	SPRING	\$151	1100CH	HOUSING	\$154	3004	PISTON	\$162
705B-100L	SPRING	\$151	1100LCH	HOUSING	\$209	3004A	PISTON	\$271
705B-160L	SPRING	\$151	1100ATH	HOUSING	\$194	3004B	PISTON	\$392
705BL	SPRING	\$151	1100TH	HOUSING	\$229	3004JR	PISTON	\$265
705L	SPRING	\$14	1100VH	HOUSING	\$388	3006	SEAT	\$68
706-9/16"	SEAT	\$110	1100SH	HOUSING	\$281	3006A	SEAT	\$110
706-23/32"	SEAT	\$110	1100LSH	HOUSING	\$387	3006B	SEAT	\$136
706A-23/32"	SEAT	\$134	1100SCH	HOUSING	\$295	3006JR	SEAT	\$66
706A-7/8"	SEAT	\$134	1100LSCH	HOUSING	\$401	3010	GASKET	\$9
706B	SEAT	\$193	1101	LENS - CLEAR	\$102	3010AN	GASKET	\$9
706JR-3/8"	SEAT	\$110	1101B	BLANKING LENS	\$55	3010JR	GASKET	\$9
706JR-9/16"	SEAT	\$110	1101R	LENS - REFLEX	\$82	3010N	GASKET	\$9
706JRP	SEAT	\$74	1102SH	RETAINER SS HEX	\$140	3012A	PUSH ROD	\$98
707-9/16-	METERING PLUG	\$99	1103	GASKET	\$9	3012B	PUSH ROD	\$110
707-23/32-	METERING PLUG	\$99	1103T	GASKET - TEFLON	\$49	3012JRL	PUSH ROD	\$61
707A-23/32-	METERING PLUG	\$125	1104	GASKET	\$6	3012L	PUSH ROD	\$61
707A-7/8-	METERING PLUG	\$125	1105	FROST SHIELD	\$69	3013	NUT	\$7
707B-	METERING PLUG	\$289	1105L	FROST SHIELD	\$89	3013JR	NUT	\$7
707JR-3/8-	METERING PLUG	\$120	1105/1106	FRST SHLD/O-RING	\$74	3014	TUBE ASSY	\$127
707JR-9/16-	METERING PLUG	\$120	1105L/1106	FRST SHLD/O-RING	\$95	3014A	TUBE ASSY	\$127
708A	SPRING CONE	\$69	1106	O-RING	\$6	3014TF	TUBE FITTING	\$55
708AT	SPRING CONE	\$76	1358	GASKET	\$13	3017NR	STEM	\$67
708B	SPRING CONE	\$68	1458	GASKET	\$26	3333NR	PLUG	\$54
708BT	SPRING CONE	\$227	1459	BOLT	\$7	5000-131	SNAP RING	\$11
708BXT	SPRING CONE	\$245	2026SL-	NOZZLE	\$329	5000-175	SNAP RING	\$15
710	GASKET	\$7	2027SL-	THROAT	\$195	5108-137	SNAP RING	\$11
710A	GASKET	\$9	2028SL	NUT	\$69	5108-177	SNAP RING	\$17
710B	GASKET	\$13	2029	GASKET	\$5	B-10985	CHAMBER	\$1,702
710JR	GASKET	\$9	2030SL	NUT	\$71	RHR120	DELAY RLY 120V	\$486
711	STEM	\$107	2046SL-	NOZZLE	\$215	RHR240	DELAY RLY 240V	\$486
711A	STEM	\$113	2047SL-	THROAT	\$104	TBASE	OCTAL BASE	\$155
711AXT	STEM	\$168	2048	NUT	\$113	THR120	TIMER ASSY 120V	\$641
711B	STEM	\$182	2049	GASKET	\$7	THR240	TIMER ASSY 240V	\$641
711BT	STEM	\$206	2076W	FRONT PIECE	\$26	U4-1	NUT	\$77
711X	STEM	\$79	2077W-	THROAT	\$136	U4-1S	NUT	\$77
711XS	STEM	\$89	2077W-BL	THROAT BLANK	\$129	U4-3S	RETAINER	\$59
711XT	STEM	\$162	2101W	FRONT PIECE	\$91	U4-4	GASKET	\$6
714	SEAL CAP	\$120	2106SL-	NOZZLE	\$321	U6-1S	NUT	\$99
714N	SEAL CAP	\$22	2107SL-	THROAT	\$147	U6-4	GASKET	\$7
714B	SEAL CAP	\$220	2107W-	THROAT	\$329			
718	CAP SCREW	\$6	2108SL	NUT	\$112			
720	GASKET	\$9	2110SL	CONNECTOR	\$74			
720B	GASKET	\$9	2111	GASKET	\$6			
721A	BOLT	\$5	2125WA-3	INJ. WELDMENT	\$438			
721B	BOLT	\$5	2126-	NOZZLE	\$470			
721L	BOLT	\$7	2127WA-	THROAT	\$271			
723	GASKET	\$8	2130	NUT	\$63			
725	GASKET	\$9	2131B	CONNECTOR	\$37			
725N	GASKET	\$13	2157WA-	THROAT	\$219			
726	BOLT	\$12	2222-	NOZZLE	\$595			
726B	BOLT	\$10	2223W-	THROAT	\$899			

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 an 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

- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- Waiver.** Waiver by Seller of Buyer's breach of any of these Terms shall not be construed as a waiver of any other breach.
- 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.