

Phillips®

REFRIGERATION

VALVES • VESSELS • SYSTEMS • CONTROLS

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Effective August 5, 2019
Supercedes 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-18E-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"	\$145	1100	2"	\$162	1100AT-R	3"	\$188	1100AT	3"	\$205
1100-RN	2"	\$179	1100-N	2"	\$196	1100AT-RN	3"	\$222	1100AT-N	3"	\$239
1100-RNX	2"	\$194	1100-NX	2"	\$211	1100AT-RNX	3"	\$237	1100AT-NX	3"	\$254
1100A-R	3"	\$163	1100A	3"	\$180	1100T-R	4"	\$216	1100T	4"	\$233
1100A-RN	3"	\$197	1100A-N	3"	\$214	1100T-RN	4"	\$250	1100T-N	4"	\$267
1100A-RNX	3"	\$212	1100A-NX	3"	\$229	1100T-RNX	4"	\$265	1100T-NX	4"	\$282
1100L-R	4"	\$189	1100L	4"	\$206	1100V-R †	2"	\$362	1100V †	2"	\$379
1100L-RN	4"	\$223	1100L-N	4"	\$240	1100V-RN †	2"	\$396	1100V-N †	2"	\$413
1100L-RNX	4"	\$238	1100L-NX	4"	\$255	1100V-RNX †	2"	\$411	1100V-NX †	2"	\$428

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"	\$364	1100S	2"	\$381
1100S-RN	2"	\$398	1100S-N	2"	\$415
1100S-RNX	2"	\$413	1100S-NX	2"	\$430
1100LS-R	4"	\$448	1100LS	4"	\$465
1100LS-RN	4"	\$482	1100LS-N	4"	\$499
1100LS-RNX	4"	\$497	1100LS-NX	4"	\$514

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"	\$156	1100C	2"	\$173
1100C-RN	2"	\$190	1100C-N	2"	\$207
1100C-RNX	2"	\$205	1100C-NX	2"	\$222
1100LC-R	4"	\$201	1100LC	4"	\$218
1100LC-RN	4"	\$235	1100LC-N	4"	\$252
1100LC-RNX	4"	\$250	1100LC-NX	4"	\$267

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

LEVEL EYE TORQUE TOOL (Stainless Steel, fits 1/2" drive)	
Part No.	List Price
LEVELEYETOOL	\$170

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

LEVEL EYE TAP (For chasing worm/crossed threads)	
LEVEL EYE TAP*	\$1,050

* Also available for lease - contact factory

3" PROBE-READY COLUMN CAP (Flat beveled cap, w/3/4" threaded hole)	
Part No.	List Price
3-3061	\$75

FLOAT SWITCHES (SS Chamber)	
Part No.	List Price
SLL	\$1,085
SLLLE*	\$1,588
REPLACEMENT SWITCH ASSY	
SLLSW†	\$574
INTERNAL FLOAT SWITCH	
HAP85	\$1,622

*Level Eye welded on chamber
†includes DIN connection

FILTERS/STRAINERS REF: BULLETIN VB-18E-01		
Filter Number	List Price	w/IPS flanges*
510-1/2" FPT angle	\$216	-
510-3/4" FPT angle	\$216	-
575-3/4" FPT angle	\$439	-
575-1" FPT angle	\$439	-
575-1-1/4" FPT angle	\$439	-
S701JRP, 1/2" or 3/4"	\$249	\$327
S701, 1"	\$273	\$389
S701A, 2"	\$723	\$873
S701B, 3"	\$1,209	\$1,411

*ODC flanges are also available. Consult factory for pricing

NOTES:

1. 510 and 575 filters are zinc plated.
2. The S701 filters mate with series 700 and 701 valves. Gasket, Nuts & Bolts included.
3. Flanges: Socket Weld standard, threaded available except for S701B. Gaskets, Nuts & Bolts included.

INJECTORS (LIQUID RECIRCULATING) REF: BULLETIN VB-18E-01	
Injector No.	List Price
2020SL	\$443
2100SL	\$574
2100SLD	\$1,015
2075WCB	\$776
2100WCB	\$809
2100WCB A	\$809
2125WA	\$790
2150WA	\$1,002
2200WA	\$1,888
2250WA	\$2,711

GAUGES 1/4" MPT, LIQUID FILLED	
AMMONIA, w/TEMP SCALE	
30"-150 psi, 2-1/2" Dia.	
88-020	\$97
30"-300 psi, 2-1/2" Dia.	
88-021	\$97
30"-150 psi, 4" Dia.	
88-024	\$147
30"-300 psi, 4" Dia.	
88-025	\$147
GENERIC, NO TEMP SCALE	
30"-150 psi, 2-1/2" Dia.	
88-026	\$134
30"-400 psi, 2-1/2" Dia.	
88-027	\$134

ORDERING INSTRUCTIONS:

1. Injector Number
2. Nozzle & throat size
3. Refrigerant
4. Inlet pressure & temperature
5. Suction temperature
6. Load (tons)
7. Application

FLANGES

REF: BULLETIN VB-18E-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	\$35	4-MT or 4FT	\$42	N/A	-	KF075	\$8
3/4" oval	6-MS or 6-FS	\$35	6-MT or 6FT	\$42	N/A	-	KF075	\$8
1" oval	8-MSO or 8-FSO	\$41	8-MTO or 8-FTO	\$48	N/A	-	KFO100	\$8
1" sq.	8-MS or 8-FS	\$52	8-MT or 8-FT	\$59	N/A	-	KF125	\$12
1-1/4" sq.	10-MS or 10-FS	\$52	10-MT or 10FT	\$59	10-MW or 10-FW	\$135	KF125	\$12
1-1/2" sq.	12-MS or 12-FS	\$67	12-MT or 12-FT	\$81	12-MW or 12-FW	\$160	KF150	\$12
2" sq.	16-MS or 16-FS	\$67	16-MT or 16-FT	\$81	16-MW or 16-FW	\$169	KF200	\$16
2-1/2" sq.	20-MS or 20-FS	\$80	N/A	-	20-MW or 20-FW	\$200	KF250	\$32
3" sq.	24-MS or 24-FS	\$85	N/A	-	24-MW or 24-FW	\$234	KF300	\$32
4" sq.	32-MS or 32-FS	\$99	N/A	-	32-MW or 32-FW	\$292	KF400	\$40
5" rd.	40-MS or 40-FS	\$263	N/A	-	40-MW or 40-FW	\$488	KF500	\$68
5" rd. York	40-MSY or 40-FSY	\$273	N/A	-	40-MWY or 40-FWY	\$498	KF500Y	\$68
6" rd.	48-MS or 48-FS	\$292	N/A	-	48-MW or 48-FW	\$559	KF600	\$68
6" rd. York	48-MSY or 48-FSY	\$302	N/A	-	48-MWY or 48-FWY	\$569	KF600Y	\$70
8" rd.	64-MS or 64-FS	\$434	N/A	-	64-MW or 64-FW	\$584	KF800	\$76
10" rd.	80-MS or 80-FS	\$702	N/A	-	80-MW or 80-FW	\$993	KF1000	\$108

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-18E-01

Size	Socket Weld		Threaded		Weld Neck	
	Part No.	List Price	Part No.	List Price	Part No.	List Price
1/2" oval	U-4S	\$78	U-4T	\$92	N/A	-
3/4" oval	U-6S	\$78	U-6T	\$92	N/A	-
1" oval	U-8SO	\$90	U-8TO	\$104	N/A	-
1" sq.	U-8S	\$116	U-8T	\$130	N/A	-
1-1/4" sq.	U-10S	\$116	U-10T	\$130	U-10W	\$282
1-1/2" sq.	U-12S	\$146	U-12T	\$174	U-12W	\$332
2" sq.	U-16S	\$150	U-16T	\$178	U-16W	\$354
2-1/2" sq.	U-20S	\$192	N/A	-	U-20W	\$432
3" sq.	U-24S	\$202	N/A	-	U-24W	\$500
4" sq.	U-32S	\$238	N/A	-	U-32W	\$624
5" rd.	U-40S	\$594	N/A	-	U-40W	\$1,044
5" rd. York	U-40SY	\$614	N/A	-	U-40WY	\$1,064
6" rd.	U-48S	\$652	N/A	-	U-48W	\$1,186
6" rd. York	U-48SY	\$674	N/A	-	U-48WY	\$1,208
8" rd.	U-64S	\$944	N/A	-	U-64W	\$1,244
10" rd.	U-80S	\$1,512	N/A	-	U-80W	\$2,094

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	\$157
ANH-AS	Sampling stand kit, incl. (1) ANH-MS, stand, feed/vent assy, storage case	\$983

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

REF: BULLETIN VB-18E-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"*	\$1,003	\$1,252	\$925	\$166	\$861	\$1,884	\$541	\$198
700XH	1", 1 1/4"	\$1,106	\$1,379	\$994	\$166	\$861	\$1,884	\$541	\$198
700AXH	1 1/2", 2"	\$1,700	\$2,424	\$1,534	\$204	\$861	\$1,884	\$541	\$198
700BXH	3" **	\$2,622	\$3,831	\$2,420	\$298	\$861	\$1,884	\$541	\$198

FOR USE WITH HALOCARBONS

700JRHF	1/2", 3/4", 1"* (IPS)	\$1,003	\$1,252	\$925	\$166	\$983	\$2,006	\$663	\$250
	1 1/8", 1 3/8" (ODC)	\$1,187	\$1,436	\$925	N/A	\$983	\$2,006	\$663	\$250
700XHF	1", 1 1/4" (IPS)	\$1,106	\$1,379	\$994	\$166	\$983	\$2,006	\$663	\$250
	1 5/8" (ODC)	\$1,320	\$1,593	\$994	N/A	\$983	\$2,006	\$663	\$250
700AXHF	1 1/2", 2" (IPS)	\$1,700	\$2,424	\$1,534	\$204	\$983	\$2,006	\$663	\$250
	2 1/8" (ODC)	\$1,868	\$2,592	\$1,534	N/A	\$983	\$2,006	\$663	\$250
700BXHF	3" (IPS)**	\$2,622	\$3,831	\$2,420	\$298	\$983	\$2,006	\$663	\$250
	3 1/8" (ODC)	\$2,960	\$4,169	\$2,420	N/A	\$983	\$2,006	\$663	\$250

NOTE: Pilot Line Kit available for R717: **PLK-700H-A \$212 LIST**

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

For halocarbons: **PLK-700H-F \$264 LIST**

** Socket weld or weld neck only

Kit includes 1/4" angle valve, gauge valve, and pressure gauge

ORDERING INSTRUCTIONS:

FOR FACTORY SELECTION ASSISTANCE, ADVISE:

- | | |
|----------------------------------|-------------------------|
| For Pilot Valve: | For Pilot Float Valve: |
| 1. Pilot Operated Valve Number | 1. Orifice Size |
| 2. Orifice Size | 2. Chamber requirements |
| 3. Metering Plug | |
| 4. Spring | |
| 5. Flange Size, Type | |
| 6. Strainer (if required) | |
| 7. Serial Number, if replacement | |

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

**HIGH SIDE FLOAT VALVES
SERIES 270A
REF: BULLETIN VB-18E-01**

Valve Number	Valve w/ Chamber		Valve Only (Zinc Plated)
	Cast	Steel	
FOR USE WITH AMMONIA (R717)			
270A	\$832	\$1,855	\$512
270AX	\$1,384	\$2,407	\$1,064
270AY	\$1,863	\$2,886	\$1,543
270AZAZ	N/A	N/A	\$748
FOR USE WITH HALOCARBONS			
270AF	\$832	\$1,855	\$512
270AXF	\$1,384	\$2,407	\$1,064
270AYF	\$1,863	\$2,886	\$1,543
MOUNTING FLANGE (FOR SERIES 270A) 2-1/2" SOCKET WELD			
Flange Number		List Price	
298A*		\$130	

**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	\$4,240	\$5,113
RC-075	\$4,278	\$5,173
RC-100	\$4,454	\$5,349
RC-125	\$4,612	\$5,507
RC-150	\$5,928	\$6,823
RC-200	\$6,144	\$7,295
RC-250	\$6,672	\$8,432
RC-300	\$8,565	\$10,605
RC-400	\$9,065	\$11,722

* Includes (1) 275AP valve and steel chamber with Level Eye, chamber, pilot line kit, 700H valve, service valves, and hand expansion 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-18E-01**

Valve Number	List Price (Zinc Plated)
3000N-3/4"	\$2,226
3000AN-1-1/4"	\$3,090

NOTE: Optional Pilot Light Coil, Add \$42

ORDERING INSTRUCTIONS:

1. Voltage
2. Hertz

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

REF: BULLETIN VB-18E-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"*	\$235	\$166	\$157
600J	1 1/4" 1 1/2"	\$340	\$186	\$194
600AJ	1 1/2", 2"	\$497	\$204	\$347
600BJ*	3"	\$921	\$298	\$719
600DJ*	4"	\$1,354	\$386	\$1,116
ALL STEEL BODY				
600K*	1", 1 1/4"	\$422	\$166	\$306
600AK*	1 1/2", 2"	\$550	\$204	\$400

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

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

ORDERING INSTRUCTIONS:

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

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

REF: BULLETIN VB-18E-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 1/4", 1 3/8" (ODC)	\$478	\$166	\$662	\$400	S701JR
700X	1", 1 1/4" (IPS) 1 3/8" (ODC)	\$607	\$166	\$821	\$495	S701
700AX	1 1/2", 2" (IPS) 2 3/8" (ODC)	\$940	\$204	\$1,108	\$774	S701A
700BX	3" (IPS) 3 3/8" (ODC)	\$1,369	\$298	\$1,707	\$1,167	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-18E-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" (IPS) 1 $\frac{1}{2}$ " , 1 $\frac{3}{8}$ " (ODC)	\$552	\$166	\$736	\$474	S701JR
700XS	1" , 1 $\frac{1}{4}$ " (IPS) 1 $\frac{3}{8}$ " (ODC)	\$673	\$166	\$887	\$561	S701
700AXS	1 $\frac{1}{2}$ " , 2" (IPS) 2 $\frac{1}{2}$ " (ODC)	\$1,022	\$204	\$1,190	\$856	S701A
700BXS	3" (IPS)** 3 $\frac{1}{2}$ " (ODC)	\$1,431	\$298	\$1,769	\$1,229	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 $\frac{1}{4}$ " (IPS) 1 $\frac{3}{8}$ " (ODC)	\$751	\$166	\$965	\$639	S701
700AXT	1 $\frac{1}{2}$ " , 2" (IPS) 2 $\frac{1}{2}$ " (ODC)	\$1,292	\$204	\$1,460	\$1,126	S701A
700BXT	3" (IPS)** 3 $\frac{1}{2}$ " (ODC)	\$1,981	\$298	\$2,319	\$1,779	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-18E-01

Valve Number	List Price (Zinc Plated)	Valve Number	List Price (Zinc Plated)
FOR USE WITH AMMONIA (R717)		FOR USE WITH HALOCARBONS	
300H	\$895	300HF	\$975
300HD	\$916	300HDF	\$996
300HM	\$921	300HMF	\$1,001
300HMD	\$940	300HMDF	\$1,020
300A	\$1,187	300AF	\$1,198
300AM	\$1,227	300AMF	\$1,238

Note: Valves can be applied as pilots for Series 701 Pilot Operated Valves. Add \$1215 for 398A Steel Chamber

**LOW SIDE FLOAT VALVES
FIXED LEVEL - REMOTE FEED
(INTERNAL MOUNT)
SERIES 301H**
REF: BULLETIN VB-18E-01

Valve Number	List Price (Zinc Plated)
FOR USE WITH AMMONIA (R717)	
301H	\$1,653
301A	\$1,674
FOR USE WITH HALOCARBONS	
301HF	\$1,731

**LOW SIDE FLOAT VALVES
FIXED LEVEL - REMOTE FEED
(EXTERNAL MOUNT)
SERIES 301E**
REF: BULLETIN VB-18E-01

Valve Number	Valve Only (Zinc Plated)	Valve w/ Chamber
FOR USE WITH AMMONIA (R717)		
301E	\$898	\$2,113
301G	\$1,075	\$2,290
301J	\$1,284	\$2,499
301K	\$1,326	\$2,541
FOR USE WITH HALOCARBONS		
301EF	\$988	\$2,203
301GF	\$1,108	\$2,323
301JF	\$1,317	\$2,532

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

Flange Number	List Price
399 (3" F.P.T.)	\$137
300WF3 (3" S.W.)	\$171

OIL FLOAT VALVES

**LOW SIDE OIL FEED VALVE
(FOR ALL REFRIGERANT OILS)
SERIES 275**
REF: BULLETIN VB-18E-01

Valve Number	Valve w/Chamber		Valve Only (Zinc Plated)
	Cast	Steel	
275AF	\$824	\$1,847	\$504

MOUNTING FLANGE 2-1/2" SOCKET WELD

Flange Number	List Price
298A	\$130

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-18E-01

Valve Number	Valve w/Chamber		Valve Only (Zinc Plated)
	Cast	Steel	
270A	\$832	\$1,855	\$512

MOUNTING FLANGE 2-1/2" SOCKET WELD

Flange Number	List Price
298A	\$130

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-18E-01

Valve Number	Valve Only (Zinc Plated)	Valve w/ Chamber
FOR USE WITH AMMONIA (R717)		
101	\$1,616	\$3,420
101A	\$1,797	\$3,795
FOR USE WITH HALOCARBONS		
101F	\$1,684	\$3,489
101AF	\$2,021	\$4,019

+ See below for ordering instructions

**PILOT OPERATED VALVE WITH
LOW SIDE ADJUSTABLE LEVEL PILOT FLOAT VALVES**

REF: BULLETIN VB-18E-01

FOR USE WITH AMMONIA (R717)

701S Pilot Operated Valve								101 Pilot Float Valve		
Pilot Operated Valve	Series 701 Port	Strainer	Available Connections	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)
			IPS - Thd. or Socket, ODC (Copper Connectors)							
701JRS	3/8", 9/16"	S701JR	1/2", 3/4", 1"	\$1,048	\$1,297	\$970	\$166	101VP18 - 3/32"	\$3,420	\$1,616
701S	9/16", 23/32"	S701	1", 1 1/4"	\$1,151	\$1,424	\$1,039	\$166	101VP18 - 3/32"	\$3,420	\$1,616
701AS	7/8", 23/32"	S701A	1 1/2", 2"	\$1,806	\$2,529	\$1,640	\$204	101VP26 - 1/8"	\$3,795	\$1,797
701BS	1 1/4"	S701B	3" (SW or WN)	\$3,369	\$4,578	\$3,167	\$298	101VP26 - 5/32"	\$3,795	\$1,797
701BXS	1 9/16"	S701B	4" (Weld Neck)	\$4,023	\$5,232	\$3,523	N/A	101VP26 - 3/16"	\$3,795	\$1,797

FOR USE WITH HALOCARBONS

701S Pilot Operated Valve								101 Pilot Float Valve		
Pilot Operated Valve	Series 701 Port	Strainer	Available Connections	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)
			IPS - THD. or Socket, ODC (Copper Connectors)							
701JRFS	3/8", 9/16"	S701JR	1/2", 3/4" (IPS), 1"	\$1,048	\$1,297	\$970	\$166	101VPF18 - 3/32"	\$3,489	\$1,684
			1 1/8", 1 3/8" (ODC)	\$1,232	\$1,481	\$970	N/A		\$3,489	\$1,684
701SF	9/16", 23/32"	S701	1", 1 1/4"	\$1,151	\$1,424	\$1,039	\$166	101VPF18 - 3/32"	\$3,489	\$1,684
			1 5/8" (ODC)	\$1,365	\$1,638	\$1,039	N/A		\$3,489	\$1,684
701ASF	7/8", 23/32"	S701A	1 1/2", 2" (IPS)	\$1,806	\$2,529	\$1,640	\$204	101VPF26 - 1/8"	\$4,019	\$2,021
			2 1/8" (ODC)	\$1,974	\$2,697	\$1,640	N/A		\$4,019	\$2,021
701BSF	1 1/4"	S701B	3" (IPS) SW or WN	\$3,369	\$4,578	\$3,167	\$298	101VPF26 - 5/32"	\$4,019	\$2,021
			3 1/8" (ODC)	\$3,707	\$4,916	\$3,167	N/A		\$4,019	\$2,021
701BXS	1 9/16"	S701B	4" (Weld Neck)	\$4,023	\$5,232	\$3,523	N/A	101VPF26 - 3/16"	\$4,019	\$2,021

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

NOTE: Pilot Line Kit available for R717: PLK-701S-A, \$538; for Halocarbons: PLK-701S-F, \$397

Kits include 1/4" FPT Solenoid Valve & Angle Valve, Pressure Gauge and Gauge Valve.

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:

- Voltage
- 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-18E-01

Valve Number	Valve Only (Zinc Plated)	Valve w/ Chamber
FOR USE WITH AMMONIA (R717)		
301E	\$898	\$2,113
301G	\$1,075	\$2,290
301J	\$1,284	\$2,499
301K	\$1,326	\$2,541
FOR USE WITH HALOCARBONS		
301EF	\$988	\$2,203
301GF	\$1,108	\$2,323
301JF	\$1,317	\$2,532

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

REF: BULLETIN VB-18E-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)								with Chamber	Valve Only (Zinc Plated)
701JRS	$\frac{3}{8}$, $\frac{9}{16}$ "	S701JR	$\frac{1}{2}$ ", $\frac{3}{4}$ ", 1" *		\$1,048	\$1,297	\$970	\$166	301E	$\frac{3}{32}$, $\frac{1}{8}$ "	\$2,113	\$898
701S	$\frac{9}{16}$, $\frac{23}{32}$ "	S701	1", 1 $\frac{1}{4}$ "		\$1,151	\$1,424	\$1,039	\$166	301E	$\frac{3}{32}$, $\frac{1}{8}$ "	\$2,113	\$898
701AS	$\frac{7}{8}$, $\frac{23}{32}$ "	S701A	1 $\frac{1}{2}$ ", 2"		\$1,806	\$2,529	\$1,640	\$204	301E	$\frac{1}{8}$ "	\$2,113	\$898
701BS	1 $\frac{1}{4}$ "	S701B	3" (SW or WN)		\$3,369	\$4,578	\$3,167	\$298	301G	$\frac{5}{32}$ "	\$2,290	\$1,075
701BXS	1 $\frac{9}{16}$ "	S701B	4" (Weld neck)		\$4,023	\$5,232	\$3,523	N/A	301J	$\frac{3}{16}$ "	\$2,499	\$1,284

FOR USE WITH HALOCARBONS

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) *		\$1,048	\$1,297	\$970	\$166	301EF	$\frac{3}{32}$, $\frac{1}{8}$ "	\$2,203	\$988
			1 $\frac{1}{8}$ ", 1 $\frac{3}{8}$ " (ODC)		\$1,232	\$1,481	\$970	N/A			\$2,203	\$988
701SF	$\frac{9}{16}$, $\frac{23}{32}$ "	S701	1", 1 $\frac{1}{4}$ " (IPS)		\$1,151	\$1,424	\$1,039	\$166	301EF	$\frac{3}{32}$, $\frac{1}{8}$ "	\$2,203	\$988
			1 $\frac{5}{8}$ " (ODC)		\$1,365	\$1,638	\$1,039	N/A			\$2,203	\$988
701ASF	$\frac{7}{8}$, $\frac{23}{32}$ "	S701A	1 $\frac{1}{2}$ ", 2" (IPS)		\$1,806	\$2,529	\$1,640	\$204	301EF	$\frac{1}{8}$ "	\$2,203	\$988
			2 $\frac{1}{8}$ " (ODC)		\$1,974	\$2,697	\$1,640	N/A			\$2,203	\$988
701BSF	1 $\frac{1}{4}$ "	S701B	3" (IPS) SW or WN		\$3,369	\$4,578	\$3,167	\$298	301GF	$\frac{5}{32}$ "	\$2,323	\$1,108
			3 $\frac{1}{8}$ " (ODC)		\$3,707	\$4,916	\$3,167	N/A			\$2,323	\$1,108
701BXSF	1 $\frac{9}{16}$ "	S701B	4" (Weld Neck)		\$4,023	\$5,232	\$3,523	N/A	301JF	$\frac{3}{16}$ "	\$2,532	\$1,317

*Available with 1" SW or FPT flanges, add \$12 LIST NOTE: Pilot Line Kit available for R717: PLK-701S-A, \$538; for Halocarbons: PLK-701S-F, \$397

Kits include Solenoid Valve, Angle Valve, Pressure Gauge and Gauge Valve.

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
- Chamber requirement
- 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

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; 5-60L 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)
K600A	604A Valve Piece; 605A4 Spring; 11-229 O-ring; 73 Gasket (2)
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; 5000-131 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 $\frac{5}{32}$; $\frac{3}{16}$	\$445
K101AB	101AB	$\frac{3}{8}$; $\frac{1}{2}$	\$810
K101ABF	101ABF	$\frac{3}{8}$; $\frac{1}{2}$	\$812
K101B	101B	$\frac{3}{8}$; $\frac{1}{2}$; $\frac{5}{8}$	\$818
K101BF	101BF	$\frac{3}{8}$; $\frac{1}{2}$; $\frac{5}{8}$	\$818
K152K	101, 101VP18	$\frac{5}{64}$ to $\frac{5}{32}$; $\frac{3}{16}$	\$524
K152K26	101VP-26" chamber	$\frac{1}{8}$; $\frac{5}{32}$; $\frac{3}{16}$	\$514
K152KF18	101F; 101VPF-18" chamber	$\frac{5}{64}$ to $\frac{5}{32}$; $\frac{3}{16}$	\$514
K152KF26	101VPF-26" chamber	$\frac{1}{8}$; $\frac{5}{32}$; $\frac{3}{16}$	\$540
K152KCP	101CP	$\frac{5}{64}$ to $\frac{5}{32}$; $\frac{3}{16}$	\$514
K152KCPF	101CPF	$\frac{5}{64}$ to $\frac{5}{32}$; $\frac{3}{16}$	\$540
K152L	101A	$\frac{3}{16}$; $\frac{1}{4}$; $\frac{5}{16}$; $\frac{3}{8}$; $\frac{13}{32}$	\$719
K152L18	101A-18" chamber	$\frac{1}{4}$	\$729
K152LF	101AF	$\frac{1}{4}$; $\frac{5}{16}$; $\frac{3}{8}$; $\frac{13}{32}$	\$719
K152LF18	101F-18" chamber	$\frac{1}{4}$	\$719
K152LCP	101CP	$\frac{1}{4}$; $\frac{5}{16}$; $\frac{3}{8}$	\$719
K152LCPF	101CPF	$\frac{1}{4}$; $\frac{5}{16}$; $\frac{3}{8}$	\$745
K210	210	$\frac{3}{32}$ to $\frac{9}{64}$	\$387
K210A	210A	$\frac{5}{32}$; $\frac{3}{16}$; $\frac{7}{32}$	\$427
K270A1	270A, 270AF, 275AF	$\frac{1}{16}$; $\frac{5}{64}$; $\frac{3}{32}$	\$350
K270A2	270A, 270AF, 275AF	$\frac{1}{8}$; $\frac{3}{16}$	\$395
K270AX	270AX	$\frac{13}{64}$	\$395
K270AY	270AY	$\frac{3}{8}$	\$1,053
K270AZ	270AZ; 270AZA; 270AZAZ	0.234	\$546
K275AP1	275AP; 275APF	$\frac{1}{16}$; $\frac{5}{64}$; $\frac{3}{32}$	\$350
K275AP2	275AP; 275APF	$\frac{1}{8}$; $\frac{3}{16}$	\$395
K280	225; 225B; 250; 250CB; 250P; 250L; 250VPF; 251CP	$\frac{5}{64}$ to $\frac{5}{32}$	\$572
K280-6	250VP (R717 only)	$\frac{7}{64}$; $\frac{9}{64}$; $\frac{5}{32}$	\$572
K310	300; 300H; 300HM; 300J; 300P; 300Y; 301E	$\frac{5}{64}$; $\frac{3}{32}$; $\frac{7}{64}$; $\frac{1}{8}$; $\frac{9}{64}$	\$391
K310A	300A; 300AM; 300YA; 301G	$\frac{5}{32}$; $\frac{3}{16}$; $\frac{7}{32}$	\$426
K310AX	300A; 300AM; 301G	$\frac{9}{32}$	\$725
K355	301; 301H; 301J; 301K; 301D; 301A	$\frac{3}{16}$; $\frac{7}{32}$; $\frac{9}{32}$	\$804

*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, $1\frac{1}{4}$	\$160
K600A	600A; 600AK	$1\frac{1}{2}$, 2	\$225
K600AJ	600AJ	$1\frac{1}{2}$, 2	\$185
K600BJ	600BJ	3	\$436
K600BJS	600BJS	3	\$447
K600DJ	600DJ	4	\$448
K600J	600J	$1\frac{1}{4}$, $1\frac{1}{2}$	\$119
K 600JR	600JR	$\frac{1}{2}$, $\frac{3}{4}$, 1	\$85

ORDERING INSTRUCTIONS:

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

KITS: CHECK VALVES (PISTON TYPE)			
Kit Catalog No.	For Valve	Line Size (In.)	List Price
K700JR	700JR; 700JRS; 700JRX; 700JRH; 700JRXH	$\frac{1}{2}$; $\frac{3}{4}$	\$38
K700	700; 700S; 700H	1, $1\frac{1}{4}$	\$57
K700A	700A; 700AS; 700AH	$1\frac{1}{2}$, 2	\$239
K700B	700B; 700BS; 700BH	3	\$193
K700X	700X; 700XS; 700XH	1, $1\frac{1}{4}$	\$48
K700AX	700AX; 700AXS; 700AXH	$1\frac{1}{2}$, 2	\$57
K700BX	700BX; 700BXS; 700BXH	3	\$106

KITS: LOW SIDE PILOT OPERATED VALVES			
Kit Catalog No.	For Valve	Line Size (in.)	List Price
K701JR	701JR; 701JRS	$\frac{1}{2}$; $\frac{3}{4}$	\$39
K701	701; 701S	1, $1\frac{1}{4}$	\$46
K701A	701A; 701AS	$1\frac{1}{2}$, 2	\$56
K701B	701B; 701BS	3	\$82

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	$\frac{3}{4}$	\$219
K3000PS	3000 & 3000N	$\frac{3}{4}$	\$806
K3000A	3000A	$1\frac{1}{4}$	\$323
K3000APS	3000A	$1\frac{1}{4}$	\$1,186

*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, $1\frac{1}{4}$	\$522
K700AXT	700AXT	$1\frac{1}{2}$, 2	\$838
K700BXT	700BXT	3	\$1,373

KITS: LEVEL EYE®			
Kit Catalog No.	For Level Eye®		List Price
K1100	Clear Level Eye®		\$92
K1100R	Reflex Level Eye®		\$75
K1100-T	Clear Level Eye® w/Teflon Gasket		\$132
K1100R-T	Reflex Level Eye® w/Teflon Gasket		\$115

KITS: INTERRUPTING VALVES			
Kit Catalog No.	For Valve	Line Size (in.)	List Price
K700AP	700AP	$1\frac{1}{2}$, 2	\$338
K700BP	700BP	3	\$781

NOTES:

1. Ordering instruction data required for the float controls only.
2. Failure to furnish at least one of the above requirements will 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 for any of the valves we must be advised of complete Valve Number, such as 700X5-DE.

REPLACEMENT PARTS

PART NO.	DESCRIPTION	LIST PRICE	PART NO.	DESCRIPTION	LIST PRICE	PART NO.	DESCRIPTION	LIST PRICE
2S&3S	SEAT & NEEDLE	\$371	63W	GASKET	\$6	272AY	PUSHER	\$153
2S&403S	SEAT & NEEDLE	\$294	67-8"	FLOAT	\$611	272M	PUSHER	\$103
4	ADJUSTING NUT	\$45	67-16"	FLOAT	\$651	272X	NEEDLE	\$39
4B	ADJUSTING NUT	\$45	67F-8"	FLOAT	\$570	273AY	GLAND	\$212
5G	GASKET	\$18	67F-16"	FLOAT	\$624	273M	GLAND	\$116
5GY	GASKET	\$18	68-8"	FLOAT	\$828	273X	BOSS	\$91
5-2	SPRING	\$58	68-12"	FLOAT	\$855	275	FLOAT BLOCK	\$108
5-2A	SPRING	\$19	68F-8"	FLOAT	\$882	276	LEVER	\$41
5-30A	SPRING	\$9	68F-12"	FLOAT	\$890	277	LINK	\$78
5-60L	SPRING	\$35	69	FLOAT	\$1,154	278	LINK	\$78
5-61	SPRING	\$10	72	BOLT	\$3	280	CARTRIDGE	\$567
5AB45	SPRING	\$35	73	GASKET	\$9	281M	SCREEN	\$6
6	SPRING CONE	\$31	73L	GASKET	\$9	284	ROD	\$24
6G	GASKET	\$20	74	GASKET	\$8	285A	SPRING	\$7
6GY	GASKET	\$22	75H	O-RING	\$16	289	GASKET	\$7
6T	SPRING CONE	\$41	75K	O-RING	\$10	290S	STOP	\$15
7	STEM	\$109	79	FLOAT	\$231	291	CAP	\$70
7B	STEM	\$55	84	PIPE PLUG	\$7	292	GASKET	\$9
8	GLAND	\$28	87	LOCK NUT	\$4	293	GLAND	\$12
8B	GLAND	\$76	87S	LOCK NUT	\$12	294	STEM	\$81
9AP	BONNET	\$426	88	LOCK NUT	\$6	296	SCREW	\$9
9B	BONNET	\$240	90P	PIPE PLUG	\$19	299A	CHAMBER	\$320
9BF	BONNET	\$757	107	O-RING	\$6	302D	DISC	\$31
9BP	BONNET	\$757	108	O-RING	\$6	304	FOLLOWER	\$5
9F	BONNET	\$201	151B	GLAND	\$108	304A	FOLLOWER	\$7
10	LEVER	\$132	152B&153B	SEAT & PLUNGER	\$761	305A	SPRING	\$4
10B	LEVER	\$235	152KCP	CARTRIDGE	\$494	307	BOSS	\$130
10CP	LEVER	\$195	152LCP	CARTRIDGE	\$699	307A	BOSS	\$212
10-11-1/2	LEVER	\$137	153B	PLUNGER ASSY	\$638	307ACB	BOSS	\$140
10-8-1/2-101	LEVER	\$137	204E	ADJUSTING NUT	\$37	307B	BOSS	\$217
10-8-1/2-101A	LEVER	\$137	211	SPRING PIN	\$5	307E	BOSS	\$223
11	LEVER PIN	\$11	211AY	SPRING PIN	\$5	307G	BOSS	\$126
11&SPACER	LEVER PIN	\$22	211X	SPRING PIN	\$5	307H	BOSS	\$219
11B	LEVER PIN	\$12	213A	FLOAT BLOCK	\$147	307J	BOSS	\$126
11S	LEVER PIN	\$16	215CB	FLOAT BLOCK	\$119	308	PUSHER	\$65
11-012	O-RING	\$3	220	FLOAT	\$262	308A	PUSHER	\$78
11-210/11-215	O-RING	\$9	220A	FLOAT	\$133	308ACB	PUSHER	\$323
11-216/11-222	O-RING	\$12	220PS	FLOAT	\$658	309	GASKET	\$4
11-225/11-229	O-RING	\$12	220PSF	FLOAT	\$824	309A	GASKET	\$4
12	PIPE PLUG	\$7	224	LOCK NUT	\$7	310	CARTRIDGE	\$315
13	BUSHING	\$163	227	CAP SCREW	\$4	310A	CARTRIDGE	\$342
14	PLUG	\$71	228	STOP	\$10	310AX	CARTRIDGE	\$396
14CB	PLUG	\$71	228A	SCREW	\$12	311A	SCREEN	\$15
14NP	PLUG	\$81	230	FLOAT BLOCK	\$69	313	FLOAT ROD	\$58
15	SPRING	\$12	230A	FLOAT BLOCK	\$45	313A	FLOAT ROD	\$84
16	SPRING CONE	\$23	230X	FLOAT BLOCK	\$173	313AM	FLOAT ROD	\$76
18	SCREEN	\$62	230Z	FLOAT BLOCK	\$58	313CP	FLOAT ROD	\$142
19	GASKET	\$5	231	LINK	\$9	313CPS	FLOAT ROD	\$269
24	BOLT	\$5	243CB	FLOAT ROD	\$20	313HM	FLOAT ROD	\$73
24A	BOLT	\$7	261	SEALING WASHER	\$7	313R	FLOAT ROD	\$34
24B	BOLT	\$9	262&403S	SEAT BSHG. & NEEDLE	\$250	314	CAM NEEDLE	\$61
24C	BOLT	\$11	262A&263A	SEAT BSHG. & NEEDLE	\$295	314A	CAM NEEDLE	\$62
24D	BOLT	\$9	262AY&263AY	SEAT BSHG. & NEEDLE	\$953	314E	CAM NEEDLE	\$65
24E	BOLT	\$9	262AZ&263AZ	SEAT BSHG. & NEEDLE	\$421	314J	CAM NEEDLE	\$62
55	LOCK WASHER	\$4	265AY	SPRING	\$11	315	FLOAT BLOCK	\$85
55A	LOCK WASHER	\$4	265C	SPRING	\$12	315ACB	FLOAT BLOCK	\$429
56	COTTER PIN	\$4	265D-S	SPRING	\$16	315P	FLOAT BLOCK	\$81
57	NUT	\$2	265E	SPRING	\$11	315PA	FLOAT BLOCK	\$133
58	NUT	\$3	267	FLOAT	\$317	315PM	FLOAT BLOCK	\$160
59	NUT	\$4	267AZAZ	FLOAT	\$576	315R	FLOAT BLOCK	\$117
60	NUT	\$4	267F	FLOAT	\$495	315WA	FLOAT BLOCK	\$118
62	BOLT	\$3	267Y	FLOAT	\$495	315WCB	FLOAT BLOCK	\$71
63	GASKET	\$6	270M	ADJUSTING NUT	\$28	316	SET SCREW	\$9

REPLACEMENT PARTS

PART NO.	DESCRIPTION	LIST PRICE	PART NO.	DESCRIPTION	LIST PRICE	PART NO.	DESCRIPTION	LIST PRICE
317J	NEEDLE	\$48	576	FLANGE	\$120	700-4BP	PISTON	\$632
318P	STOP	\$36	577	CAP SCREW	\$6	700-4BX	PISTON	\$280
319P	ADJUSTING PIECE	\$12	580	SCREEN	\$262	700-4BXH	PISTON	\$469
321M	FLOAT	\$147	600D2-2	CHECK VALVE	\$437	700-4BXS	PISTON	\$358
321MF	FLOAT	\$185	600D3-2	CHECK VALVE	\$716	700-4BXT	PISTON	\$735
321WCB	FLOAT	\$388	600D3XT	CHECK VALVE	\$1,148	700-4JRH	PISTON	\$250
322	LOCK NUT	\$4	601AJ	SNAP RING	\$19	700-4JRSS	PISTON	\$311
324	LOCK NUT	\$4	601B	STEM	\$344	700-4JRX	PISTON	\$133
324S	LOCK NUT	\$12	601BJ	SNAP RING	\$23	700-4X	PISTON	\$133
325	CAP SCREW	\$6	601DJ	SNAP RING	\$39	700-4XH	PISTON	\$186
325WCB	CAP SCREW	\$6	601J	SNAP RING	\$16	700-4XT	PISTON	\$267
326	GASKET	\$10	601JR	SNAP RING	\$12	700-7	FLUSH PLUG	\$36
326KZ	GASKET	\$17	602A	BACK PLATE	\$186	700-7AQ	FLUSH PLUG	\$134
326Y	GASKET	\$10	602AK	GUIDE PIECE	\$144	700-7AX	FLUSH PLUG	\$57
326YA	GASKET	\$16	602BJ	BACK PLATE	\$206	700-7AXH	METERING PLUG	\$156
327P	STEM	\$125	602DJ	BACK PLATE	\$288	700-7AXS	FLUSH PLUG	\$70
328E	GLAND	\$92	602K	GUIDE PIECE	\$124	700-7AXT	FLUSH PLUG	\$133
329	STOP	\$14	603AJ	TEFLON RING	\$45	700-7BX	FLUSH PLUG	\$193
331-15	FLOAT	\$608	603BJ	TEFLON RING	\$62	700-7BXH	METERING PLUG	\$247
331-15F	FLOAT	\$635	603DJ	TEFLON RING	\$94	700-7BXS	FLUSH PLUG	\$193
333	PIPE PLUG	\$7	603J	TEFLON RING	\$36	700-7H- <u> </u>	METERING PLUG	\$156
334CB	CONNECTOR	\$62	603JR	TEFLON RING	\$20	700-7JR	FLUSH PLUG	\$32
343	FLOAT ROD	\$36	604	VALVE PIECE	\$124	700-7JRH	METERING PLUG	\$119
343A	FLOAT ROD	\$19	604A	VALVE PIECE	\$179	700-7JRS	FLUSH PLUG	\$102
343AZ	FLOAT ROD	\$79	604AJ	VALVE PIECE	\$147	700-7S	FLUSH PLUG	\$105
343CP	FLOAT ROD	\$62	604B	VALVE PIECE	\$410	700-7T	FLUSH PLUG	\$89
343D	FLOAT ROD	\$39	604BJ	VALVE PIECE	\$381	702APN	BONNET	\$904
343H	FLOAT ROD	\$62	604DJ	VALVE PIECE	\$619	702AS	BONNET	\$240
343WA	FLOAT ROD	\$119	604J	VALVE PIECE	\$87	702BPN	BONNET	\$1,493
343WCB	FLOAT ROD	\$15	604JR	VALVE PIECE	\$60	702BS	BONNET	\$440
355	CARTRIDGE	\$798	605A1	SPRING	\$17	702BT	BONNET	\$392
356	SPRING	\$7	605A4	SPRING	\$16	702BXS	BONNET	\$465
357	ADJUSTING SCREW	\$15	605AJ	SPRING	\$20	702JRS	BONNET	\$133
358	PUSHER	\$87	605B	SPRING	\$38	702S	BONNET	\$133
359	LOCK NUT	\$5	605BJ	SPRING	\$35	702T	BONNET	\$193
363	PLUG	\$84	605BJS	SPRING	\$46	703	SEAT DISC	\$20
363-510CAP	STRAINER CAP	\$95	605DJ	SPRING	\$45	703A	SEAT DISC	\$31
363P	STRAINER CAP	\$93	605DJS	SPRING	\$87	703B	SEAT DISC	\$52
364	GASKET	\$16	605JR	SPRING	\$17	703JR	SEAT DISC	\$20
365	GASKET	\$6	608AJ	BACK PLATE RING	\$42	703JRN	SEAT DISC	\$31
369	ADJUSTING SCREW	\$22	608BJ	BACK PLATE RING	\$51	703BXS	SEAT DISC	\$179
369A	STOP SCREW	\$15	608DJ	BACK PLATE RING	\$78	704	PISTON	\$228
370A	FLOAT	\$499	608J	BACK PLATE RING	\$35	704A	PISTON	\$298
370M	FLOAT	\$305	608JR	BACK PLATE RING	\$22	704B	PISTON	\$657
370MF	FLOAT	\$351	610B	RETAINER	\$73	704JR	PISTON	\$209
377	STEM	\$57	626	GASKET	\$4	705	SPRING	\$19
398A	CHAMBER	\$1,215	700-2	BONNET	\$106	705-1L	SPRING	\$19
398B	CHAMBER	\$1,215	700-2A	BONNET	\$168	705-5L	SPRING	\$19
403S	NEEDLE	\$36	700-2AP	BONNET	\$498	705-10L	SPRING	\$19
411	LEVER PIN	\$16	700-2AT	BONNET	\$240	705-20L	SPRING	\$19
411&SPACERS	LEVER PIN	\$22	700-2B	BONNET	\$385	705-35L	SPRING	\$19
411-S	LEVER PIN	\$41	700-2BP	BONNET	\$281	705-35R	SPRING	\$19
431	LINK	\$9	700-3A	SEAT DISC	\$214	705-45L	USE 705-50L	\$19
431AY	LINK	\$28	700-3AX	SEAT DISC	\$32	705-50L	SPRING	\$19
477K	SPRING	\$12	700-3B	SEAT DISC	\$163	705-60L	SPRING	\$19
477-1	SPRING	\$13	700-3BX	SEAT DISC	\$76	705-60R	SPRING	\$19
506	GASKET	\$6	700-3X	SEAT DISC	\$22	705-70L	SPRING	\$19
515	SPRING	\$24	700-4AP	PISTON	\$272	705-90L	SPRING	\$19
516	SPRING CONE	\$35	700-4AX	PISTON	\$195	705-130L	SPRING	\$19
516P	SPRING GUIDE	\$29	700-4AXH	PISTON	\$299	705A	SPRING	\$41
517	SCREEN	\$138	700-4AXHS	PISTON	\$351	705A-2L	SPRING	\$41
517JRP	SCREEN	\$124	700-4AXS	PISTON	\$228	705A-10L	SPRING	\$41
558	SCREEN	\$113	700-4AXT	PISTON	\$635	705A-20L	SPRING	\$41

REPLACEMENT PARTS

PART NO.	DESCRIPTION	LIST PRICE	PART NO.	DESCRIPTION	LIST PRICE	PART NO.	DESCRIPTION	LIST PRICE
705A-30L	SPRING	\$41	726D	BOLT	\$12	3002	BONNET	\$148
705A-60L	SPRING	\$41	726E	BOLT	\$16	3002A	BONNET	\$195
705A-110L	SPRING	\$41	728	GASKET	\$4	3002AN	BONNET	\$890
705A-165L	SPRING	\$41	752AQ	SLEEVE	\$662	3002JR	BONNET	\$156
705A-114	SPRING	\$41	754AQ	PISTON	\$411	3002JRN	BONNET	\$114
705A-171	SPRING	\$41	775	PACKING RING	\$10	3002NR	BONNET	\$437
705A-270	SPRING	\$41	776	RETAINER	\$10	3003	SEAT DISC	\$28
705AL	SPRING	\$19	777BN	PACKING RING	\$15	3003A	SEAT DISC	\$36
705B-3L	SPRING	\$119	1100AH	HOUSING	\$157	3003B	SEAT DISC	\$52
705B-10L	SPRING	\$119	1100ATH	HOUSING	\$162	3003JR	SEAT DISC	\$23
705B-15X	SPRING	\$119	1100CH	HOUSING	\$132	3004	PISTON	\$128
705B-30L	SPRING	\$119	1100H	HOUSING	\$111	3004A	PISTON	\$214
705B-60L	SPRING	\$119	1100LCH	HOUSING	\$177	3004B	PISTON	\$310
705B-100L	SPRING	\$119	1100LH	HOUSING	\$171	3004JR	PISTON	\$209
705B-160L	SPRING	\$119	1100LSH	HOUSING	\$335	3006	SEAT	\$54
705BL	SPRING	\$119	1100SCH	HOUSING	\$243	3006A	SEAT	\$87
705L	SPRING	\$11	1100SH	HOUSING	\$221	3006B	SEAT	\$108
706-9/16"	SEAT	\$87	1100TH	HOUSING	\$181	3006JR	SEAT	\$52
706-23/32"	SEAT	\$87	1100VH	HOUSING	\$308	3010	GASKET	\$7
706A-23/32"	SEAT	\$106	1101	LENS - CLEAR	\$81	3010AN	GASKET	\$7
706A-7/8"	SEAT	\$106	1101B	BLANKING LENS	\$44	3010JR	GASKET	\$7
706B	SEAT	\$153	1101R	LENS - REFLEX	\$64	3010N	GASKET	\$7
706JR-3/8"	SEAT	\$87	1102SH	RETAINER SS HEX	\$111	3012A	PUSH ROD	\$77
706JR-9/16"	SEAT	\$87	1103	GASKET	\$7	3012B	PUSH ROD	\$87
706JRP	SEAT	\$58	1103T	GASKET - TEFLON	\$47	3012JRL	PUSH ROD	\$48
707-9/16"	METERING PLUG	\$78	1104	GASKET	\$4	3012L	PUSH ROD	\$48
707-23/32"	METERING PLUG	\$78	1105	FROST SHIELD	\$55	3013	NUT	\$6
707A-23/32"	METERING PLUG	\$99	1105L	FROST SHIELD	\$70	3013JR	NUT	\$6
707A-7/8"	METERING PLUG	\$99	1105/1106	FRST SHLD/O-RING	\$58	3014	TUBE ASSY	\$100
707B	METERING PLUG	\$228	1105L/1106	FRST SHLD/O-RING	\$75	3014A	TUBE ASS'Y	\$100
707JR-3/8"	METERING PLUG	\$94	1106	O-RING	\$4	3014TF	TUBE FITTING	\$44
707JR-9/16"	METERING PLUG	\$94	1358	GASKET	\$10	3017NR	STEM	\$53
708A	SPRING CONE	\$54	1458	GASKET	\$21	3333NR	PLUG	\$43
708AT	SPRING CONE	\$60	1459	BOLT	\$5	5000-131	SNAP RING	\$9
708B	SPRING CONE	\$54	2026SL	NOZZLE	\$259	5000-175	SNAP RING	\$12
708BT	SPRING CONE	\$179	2027SL	THROAT	\$154	5108-137	SNAP RING	\$9
708BXT	SPRING CONE	\$193	2028SL	NUT	\$54	5108-177	SNAP RING	\$13
710	GASKET	\$6	2029	GASKET	\$4	B-10985	CHAMBER	\$1,343
710A	GASKET	\$7	2030SL	NUT	\$56	RHR120	DELAY RLY 120V	\$384
710B	GASKET	\$10	2046SL	NOZZLE	\$170	RHR240	DELAY RLY 240V	\$384
710JR	GASKET	\$7	2047SL	THROAT	\$82	TBASE	OCTAL BASE	\$123
711	STEM	\$84	2048	NUT	\$90	THR120	TIMER ASSY 120V	\$506
711A	STEM	\$90	2049	GASKET	\$6	THR240	TIMER ASSY 240V	\$506
711AXT	STEM	\$133	2076W	FRONT PIECE	\$21	U4-1	NUT	\$61
711B	STEM	\$144	2077W	THROAT	\$107	U4-1S	NUT	\$61
711BT	STEM	\$163	2077W-BL	THROAT BLANK	\$102	U4-3S	RETAINER	\$47
711X	STEM	\$62	2101W	FRONT PIECE	\$72	U4-4	GASKET	\$4
711XS	STEM	\$71	2106SL	NOZZLE	\$254	U6-1S	NUT	\$78
711XT	STEM	\$128	2107SL	THROAT	\$116	U6-4	GASKET	\$6
714	SEAL CAP	\$94	2107W	THROAT	\$259			
714N	SEAL CAP	\$15	2108SL	NUT	\$88			
714B	SEAL CAP	\$174	2110SL	CONNECTOR	\$59			
718	CAP SCREW	\$4	2111	GASKET	\$4			
720	GASKET	\$7	2125WA-3	INJ. WELDMENT	\$346			
720B	GASKET	\$7	2126	NOZZLE	\$371			
721A	BOLT	\$4	2127WA	THROAT	\$214			
721L	BOLT	\$5	2130	NUT	\$49			
723	GASKET	\$6	2131B	CONNECTOR	\$29			
725	GASKET	\$7	2157WA	THROAT	\$172			
725N	GASKET	\$10	2222	NOZZLE	\$469			
726	BOLT	\$9	2223W	THROAT	\$709			
726B	BOLT	\$8	2256WA	NOZZLE	\$442			
726C	BOLT	\$8	3000AN	BONNET ASSY	\$1,036			

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.

LIMITED PRODUCT WARRANTY

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. 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.