

# Phillips®

## REFRIGERATION

VALVES • VESSELS • SYSTEMS • CONTROLS

H. A. Phillips & Co.  
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 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"	\$193	1100	2"	\$214	1100AT-R	3"	\$250	1100AT	3"	\$271
1100-RN	2"	\$241	1100-N	2"	\$262	1100AT-RN	3"	\$298	1100AT-N	3"	\$319
1100-RNX	2"	\$263	1100-NX	2"	\$284	1100AT-RNX	3"	\$320	1100AT-NX	3"	\$341
1100A-R	3"	\$217	1100A	3"	\$238	1100T-R	4"	\$287	1100T	4"	\$308
1100A-RN	3"	\$265	1100A-N	3"	\$286	1100T-RN	4"	\$335	1100T-N	4"	\$356
1100A-RNX	3"	\$287	1100A-NX	3"	\$308	1100T-RNX	4"	\$357	1100T-NX	4"	\$378
1100L-R	4"	\$251	1100L	4"	\$272	1100V-R †	2"	\$454	1100V †	2"	\$475
1100L-RN	4"	\$299	1100L-N	4"	\$320	1100V-RN †	2"	\$502	1100V-N †	2"	\$523
1100L-RNX	4"	\$321	1100L-NX	4"	\$342	1100V-RNX †	2"	\$524	1100V-NX †	2"	\$545

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"	\$485	1100S	2"	\$506
1100S-RN	2"	\$533	1100S-N	2"	\$554
1100S-RNX	2"	\$555	1100S-NX	2"	\$576
1100LS-R	4"	\$596	1100LS	4"	\$617
1100LS-RN	4"	\$644	1100LS-N	4"	\$665
1100LS-RNX	4"	\$666	1100LS-NX	4"	\$687

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"	\$500	1100SC	2"	\$521
1100SC-RN	2"	\$548	1100SC-N	2"	\$569
1100SC-RNX	2"	\$570	1100SC-NX	2"	\$591
1100LSC-R	4"	\$611	1100LSC	4"	\$632
1100LSC-RN	4"	\$659	1100LSC-N	4"	\$680
1100LSC-RNX	4"	\$681	1100LSC-NX	4"	\$702

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"	\$208	1100C	2"	\$229
1100C-RN	2"	\$256	1100C-N	2"	\$277
1100C-RNX	2"	\$278	1100C-NX	2"	\$299
1100LC-R	4"	\$266	1100LC	4"	\$287
1100LC-RN	4"	\$314	1100LC-N	4"	\$335
1100LC-RNX	4"	\$336	1100LC-NX	4"	\$357

**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	\$100

FLOAT SWITCHES (SS Chamber)	
Part No.	List Price
HAPSS	\$1,594
HAPSS-1*	\$2,142
REPLACEMENT SWITCH ASSY	
HAPSW†	\$843
INTERNAL FLOAT SWITCH	
HAP85	\$2,158

\*Level Eye welded on chamber  
†includes DIN connection

INJECTORS (LIQUID RECIRCULATING) REF: BULLETIN VB-22E-01	
Injector No.	List Price
2020SL	\$563
2100SL	\$729
2100SLD	\$1,289
2075WCB	\$985
2100WCB	\$1,027
2100WCBA	\$1,027
2125WA	\$1,004
2150WA	\$1,272
2200WA	\$2,398
2250WA	\$3,443

GAUGES 1/4" MPT, LIQUID FILLED	
AMMONIA, w/TEMP SCALE	
Part No.	List Price
30"-150 psi, 2-1/2" Dia.	
88-020	\$130
30"-300 psi, 2-1/2" Dia.	
88-021	\$130
30"-150 psi, 4" Dia.	
88-024	\$196
30"-300 psi, 4" Dia.	
88-025	\$196
GENERIC, NO TEMP SCALE	
30"-150 psi, 2-1/2" Dia.	
88-026	\$170
30"-400 psi, 2-1/2" Dia.	
88-027	\$170

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	\$227

FILTERS/STRAINERS REF: BULLETIN VB-22E-01		
Filter Number	List Price	w/IPS flanges*
510-1/2" FPT angle	\$288	-
510-3/4" FPT angle	\$288	-
575-3/4" FPT angle	\$584	-
575-1" FPT angle	\$584	-
575-1-1/4" FPT angle	\$584	-
S701JRP, 1/2" or 3/4"	\$331	\$456
S701, 1"	\$419	\$590
S701A, 2"	\$909	\$1,145
S701B, 3"	\$1,545	\$1,848

\*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	\$56	4-MT or 4FT	\$66	N/A	-	KF075	\$13
3/4" oval	6-MS or 6-FS	\$56	6-MT or 6FT	\$66	N/A	-	KF075	\$13
1" oval	8-MSO or 8-FSO	\$63	8-MTO or 8-FTO	\$74	N/A	-	KFO100	\$13
1" sq.	8-MS or 8-FS	\$76	8-MT or 8-FT	\$87	N/A	-	KF125	\$19
1-1/4" sq.	10-MS or 10-FS	\$76	10-MT or 10FT	\$87	10-MW or 10-FW	\$207	KF125	\$19
1-1/2" sq.	12-MS or 12-FS	\$105	12-MT or 12-FT	\$125	12-MW or 12-FW	\$260	KF150	\$19
2" sq.	16-MS or 16-FS	\$105	16-MT or 16-FT	\$125	16-MW or 16-FW	\$264	KF200	\$26
2-1/2" sq.	20-MS or 20-FS	\$120	N/A	-	20-MW or 20-FW	\$300	KF250	\$46
3" sq.	24-MS or 24-FS	\$128	N/A	-	24-MW or 24-FW	\$350	KF300	\$47
4" sq.	32-MS or 32-FS	\$146	N/A	-	32-MW or 32-FW	\$437	KF400	\$49
5" rd.	40-MS or 40-FS	\$386	N/A	-	40-MW or 40-FW	\$726	KF500	\$95
5" rd. York	40-MSY or 40-FSY	\$402	N/A	-	40-MWY or 40-FWY	\$742	KF500Y	\$95
6" rd.	48-MS or 48-FS	\$431	N/A	-	48-MW or 48-FW	\$838	KF600	\$95
6" rd. York	48-MSY or 48-FSY	\$447	N/A	-	48-MWY or 48-FWY	\$854	KF600Y	\$95
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	\$125	U-4T	\$145	N/A	-
3/4" oval	U-6S	\$125	U-6T	\$145	N/A	-
1" oval	U-8SO	\$139	U-8TO	\$161	N/A	-
1" sq.	U-8S	\$171	U-8T	\$193	N/A	-
1-1/4" sq.	U-10S	\$171	U-10T	\$193	U-10W	\$433
1-1/2" sq.	U-12S	\$229	U-12T	\$269	U-12W	\$539
2" sq.	U-16S	\$236	U-16T	\$276	U-16W	\$554
2-1/2" sq.	U-20S	\$286	N/A	-	U-20W	\$646
3" sq.	U-24S	\$303	N/A	-	U-24W	\$747
4" sq.	U-32S	\$341	N/A	-	U-32W	\$923
5" rd.	U-40S	\$867	N/A	-	U-40W	\$1,547
5" rd. York	U-40SY	\$899	N/A	-	U-40WY	\$1,579
6" rd.	U-48S	\$957	N/A	-	U-48W	\$1,771
6" rd. York	U-48SY	\$989	N/A	-	U-48WY	\$1,803
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	\$209
ANH-AS	Sampling stand kit, incl. (1) ANH-MS, stand, feed/vent assy, storage case	\$1,327

**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"*	\$1,333	\$1,665	\$1,208	\$262	\$1,114	\$2,332	\$707	\$319
700XH	1", 1 1/4"	\$1,470	\$1,889	\$1,299	\$262	\$1,114	\$2,332	\$707	\$319
700AXH	1 1/2", 2"	\$2,240	\$3,149	\$2,004	\$318	\$1,114	\$2,332	\$707	\$319
700BXH	3" **	\$3,465	\$5,010	\$3,162	\$444	\$1,114	\$2,332	\$707	\$319

**FOR USE WITH HALOCARBONS**

700JRHF	1/2", 3/4", 1"* (IPS)	\$1,333	\$1,665	\$1,208	\$262	\$1,273	\$2,491	\$866	\$529
	1 1/8", 1 3/8" (ODC)	\$1,725	\$2,057	\$1,208	N/A	\$1,273	\$2,491	\$866	\$529
700XHF	1", 1 1/4" (IPS)	\$1,470	\$1,889	\$1,299	\$262	\$1,273	\$2,491	\$866	\$529
	1 5/8" (ODC)	\$1,846	\$2,265	\$1,299	N/A	\$1,273	\$2,491	\$866	\$529
700AXHF	1 1/2", 2" (IPS)	\$2,240	\$3,149	\$2,004	\$318	\$1,273	\$2,491	\$866	\$529
	2 1/8" (ODC)	\$2,557	\$3,466	\$2,004	N/A	\$1,273	\$2,491	\$866	\$529
700BXHF	3" (IPS)**	\$3,465	\$5,010	\$3,162	\$444	\$1,273	\$2,491	\$866	\$529
	3 1/8" (ODC)	\$4,049	\$5,594	\$3,162	N/A	\$1,273	\$2,491	\$866	\$529

NOTE: Pilot Line Kit for 1/4" pipe: **PLK-1/4 \$319 LIST**

For 3/8" tube: **PLK-3/8 \$529 LIST**

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

\*Available 1" SW or FPT flanges, add **\$14 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	
<b>FOR USE WITH AMMONIA (R717)</b>			
270A	\$1,096	\$2,374	\$668
270AX	\$1,817	\$3,095	\$1,389
270AY	\$2,443	\$3,721	\$2,015
270AZAZ	N/A	N/A	\$977
<b>FOR USE WITH HALOCARBONS</b>			
270AF	\$1,096	\$2,374	\$668
270AXF	\$1,817	\$3,014	\$1,389
270AYF	\$2,443	\$3,640	\$2,015
<b>MOUNTING FLANGE (FOR SERIES 270A) 2-1/2" SOCKET WELD</b>			
Flange Number	List Price		
298A	\$168		

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

Control Package	Standard Items*	with Pressure Regulator and extra Service Valves
<b>FOR USE WITH AMMONIA (R717)</b>		
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"	<b>\$2,908</b>
3000AN-1-1/4"	<b>\$4,036</b>

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
<b>CAST BODY - TYPE FORMERLY MANUFACTURED BY WOLF LINDE</b>				
600JR	1/2", 3/4", 1"¥	<b>\$340</b>	<b>\$262</b>	<b>\$215</b>
600J	1 1/4" 1 1/2"	<b>\$483</b>	<b>\$310</b>	<b>\$254</b>
600AJ	1 1/2", 2"	<b>\$689</b>	<b>\$318</b>	<b>\$453</b>
600BJ*	3"	<b>\$1,242</b>	<b>\$444</b>	<b>\$939</b>
600DJ*	4"	<b>\$1,799</b>	<b>\$582</b>	<b>\$1,458</b>
<b>ALL STEEL BODY</b>				
600K*	1", 1 1/4"	<b>\$571</b>	<b>\$262</b>	<b>\$400</b>
600AK*	1 1/2", 2"	<b>\$758</b>	<b>\$318</b>	<b>\$522</b>

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

**ORDERING INSTRUCTIONS:**

¥Available 1" SW or FPT flanges, add **\$14 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)	<b>\$648</b>	<b>\$262</b>	<b>\$1,040</b>	<b>\$523</b>	S701JRP
700X	1", 1 1/4" (IPS) 1 1/8" (ODC)	<b>\$818</b>	<b>\$262</b>	<b>\$1,194</b>	<b>\$647</b>	S701
700AX	1 1/2", 2" (IPS) 2 1/8" (ODC)	<b>\$1,248</b>	<b>\$318</b>	<b>\$1,565</b>	<b>\$1,012</b>	S701A
700BX	3" (IPS) 3 1/8" (ODC)	<b>\$1,828</b>	<b>\$444</b>	<b>\$2,412</b>	<b>\$1,525</b>	S701B

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

\*Available 1" SW or FPT flanges, add **\$14 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)	<b>\$744</b>	<b>\$262</b>	<b>\$1,136</b>	<b>\$619</b>	S701JRP
700XS	1", 1 1/4" (IPS) 1/8" (ODC)	<b>\$904</b>	<b>\$262</b>	<b>\$1,280</b>	<b>\$733</b>	S701
700AXS	1 1/2", 2" (IPS) 2/8" (ODC)	<b>\$1,355</b>	<b>\$318</b>	<b>\$1,672</b>	<b>\$1,119</b>	S701A
700BXS	3" (IPS)** 3/8" (ODC)	<b>\$1,909</b>	<b>\$444</b>	<b>\$2,493</b>	<b>\$1,606</b>	S701B

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

\*Available 1" SW or FPT flanges, add **\$14 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)	<b>\$1,006</b>	<b>\$262</b>	<b>\$1,382</b>	<b>\$835</b>	S701
700AXT	1 1/2", 2" (IPS) 2/8" (ODC)	<b>\$1,706</b>	<b>\$318</b>	<b>\$2,023</b>	<b>\$1,470</b>	S701A
700BXT	3" (IPS)** 3/8" (ODC)	<b>\$2,627</b>	<b>\$444</b>	<b>\$3,211</b>	<b>\$2,324</b>	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)	<b>\$1,598</b>	<b>\$318</b>	<b>\$1,915</b>	<b>\$1,362</b>	S701A
700BP	3" (IPS)** 3/8" (ODC)	<b>\$2,455</b>	<b>\$444</b>	<b>\$3,039</b>	<b>\$2,152</b>	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	\$1,169	300HF	\$1,229
300HD	\$1,197	300HDF	\$1,257
300HM	\$1,203	300HMF	\$1,263
300HMD	\$1,228	300HMDF	\$1,288
300A	\$1,551	300AF	\$1,651
300AM	\$1,603	300AMF	\$1,703

Note: Valves can be applied as pilots for Series 701 Pilot Operated Valves. Add \$1499 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	\$2,159
301A	\$2,186
FOR USE WITH HALOCARBONS	
301HF	\$2,259

**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	\$1,173	\$2,672
301G	\$1,404	\$2,903
301J	\$1,678	\$3,177
301K	\$1,733	\$3,232
FOR USE WITH HALOCARBONS		
301EF	\$1,234	\$2,733
301GF	\$1,465	\$2,964
301JF	\$1,739	\$3,238

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

Flange Number	List Price
399 (3" F.P.T.)	\$177
300WF3 (3" S.W.)	\$211

**SPECIAL APPLICATION**

Valve Number	Valve Only (Zinc Plated)
300WAXF	\$1,583
300WCB	\$1,284

**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	\$1,086	\$2,364	\$658
<b>MOUNTING FLANGE 2-1/2" SOCKET WELD</b>			
Flange Number	List Price		
298A	\$168		

**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	\$1,096	\$2,374	\$668
<b>MOUNTING FLANGE 2-1/2" SOCKET WELD</b>			
Flange Number	List Price		
298A	\$168		

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	<b>\$2,111</b>	<b>\$4,183</b>
101A	<b>\$2,347</b>	<b>\$5,028</b>
FOR USE WITH HALOCARBONS		
101F	<b>\$2,158</b>	<b>\$4,230</b>
101AF	<b>\$2,441</b>	<b>\$5,122</b>

+ 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	<b>\$2,502</b>
FOR USE WITH HALOCARBONS	
101CPSF	<b>\$2,534</b>

**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"	\$1,392	\$1,724	\$1,267	\$262	101VP18 - 3/32"	\$4,183	\$2,111
701S	9/16", 23/32"	S701	1", 1 1/4"	\$1,529	\$1,948	\$1,358	\$262	101VP18 - 3/32"	\$4,183	\$2,111
701AS	7/8", 23/32"	S701A	1 1/2", 2"	\$2,378	\$3,287	\$2,142	\$318	101VP26 - 1/8"	\$5,028	\$2,347
701BS	1 1/4"	S701B	3" (SW or WN)	\$4,440	\$5,985	\$4,137	\$444	101VP26 - 5/32"	\$5,028	\$2,347
701BXS	1 9/16"	S701B	4" (Weld Neck)	\$5,349	\$6,894	\$4,602	N/A	101VP26 - 3/16"	\$5,028	\$2,347

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"*	\$1,392	\$1,724	\$1,267	\$262	101VPF18 - 3/32"	\$4,230	\$2,158
			1 1/8", 1 3/8" (ODC)	\$1,784	\$2,116	\$1,267	N/A		\$4,230	\$2,158
701SF	9/16", 23/32"	S701	1", 1 1/4"	\$1,529	\$1,948	\$1,358	\$262	101VPF18 - 3/32"	\$4,230	\$2,158
			1 5/8" (ODC)	\$1,905	\$2,324	\$1,358	N/A		\$4,230	\$2,158
701ASF	7/8", 23/32"	S701A	1 1/2", 2" (IPS)	\$2,378	\$3,287	\$2,142	\$318	101VPF26 - 1/8"	\$5,122	\$2,441
			2 1/8" (ODC)	\$2,695	\$3,604	\$2,142	N/A		\$5,122	\$2,441
701BSF	1 1/4"	S701B	3" (IPS) SW or WN	\$4,440	\$5,985	\$4,137	\$444	101VPF26 - 5/32"	\$5,122	\$2,441
			3 1/8" (ODC)	\$5,024	\$6,569	\$4,137	N/A		\$5,122	\$2,441
701BXS	1 9/16"	S701B	4" (Weld Neck)	\$5,349	\$6,894	\$4,602	N/A	101VPF26 - 3/16"	\$5,122	\$2,441

\*Available w/ 1" SW or FPT flanges, add \$14 LIST

NOTE: Pilot Line Kit available for 1/4" pipe PLK-1/4, \$319; for 3/8" tubing PLK-3/8, \$529

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	\$1,173	\$2,672
301G	\$1,404	\$2,903
301J	\$1,678	\$3,177
301K	\$1,733	\$3,232
FOR USE WITH HALOCARBONS		
301EF	\$1,234	\$2,733
301GF	\$1,465	\$2,964
301JF	\$1,739	\$3,238

**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)							with Flanges	Chamber
701JRS	3/8", 9/16"	S701JR	1/2", 3/4", 1" *	\$1,392	\$1,724	\$1,267	\$262	301E	3/32", 1/8"	\$2,672	\$1,173
701S	9/16", 23/32"	S701	1", 1 1/4"	\$1,529	\$1,948	\$1,358	\$262	301E	3/32", 1/8"	\$2,672	\$1,173
701AS	7/8", 23/32"	S701A	1 1/2", 2"	\$2,378	\$3,287	\$2,142	\$318	301E	1/8"	\$2,672	\$1,173
701BS	1 1/4"	S701B	3" (SW or WN)	\$4,440	\$5,985	\$4,137	\$444	301G	5/32"	\$2,903	\$1,404
701BXS	1 9/16"	S701B	4" (Weld neck)	\$5,349	\$6,894	\$4,602	N/A	301J	3/16"	\$3,177	\$1,678

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 Flanges	Chamber
701JRSF	3/8", 9/16"	S701JR	1/2", 3/4", 1" (IPS) *	\$1,392	\$1,724	\$1,267	\$262	301EF	3/32", 1/8"	\$2,733	\$1,234
			1 1/8", 1 3/8" (ODC)	\$1,784	\$2,116	\$1,267	N/A			\$2,733	\$1,234
701SF	9/16", 23/32"	S701	1", 1 1/4" (IPS)	\$1,529	\$1,948	\$1,358	\$262	301EF	3/32", 1/8"	\$2,733	\$1,234
			1 5/8" (ODC)	\$1,905	\$2,324	\$1,358	N/A			\$2,733	\$1,234
701ASF	7/8", 23/32"	S701A	1 1/2", 2" (IPS)	\$2,378	\$3,287	\$2,142	\$318	301EF	1/8"	\$2,733	\$1,234
			2 1/8" (ODC)	\$2,695	\$3,604	\$2,142	N/A			\$2,733	\$1,234
701BSF	1 1/4"	S701B	3" (IPS) SW or WN	\$4,440	\$5,985	\$4,137	\$444	301GF	5/32"	\$2,964	\$1,465
			3 1/8" (ODC)	\$5,024	\$6,569	\$4,137	N/A			\$2,964	\$1,465
701BXS F	1 9/16"	S701B	4" (Weld Neck)	\$5,349	\$6,894	\$4,602	N/A	301JF	3/16"	\$3,238	\$1,739

\*Available with 1" SW or FPT flanges, add \$14 LIST

NOTE: Pilot Line Kit available for 1/4" pipe PLK-1/4, \$319; for 3/8" tubing, \$529

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
- 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; 5-61 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 (2)
K700BX	700-3BX Seat Disc; 710B Gasket; 326Y Gasket (2)
K700X	700-3X Seat Disc; 710 Gasket; 725N Gasket (2)
K700AP	73 Gasket (2); 700-4AP Piston; 705A Spring; 710A Gasket
K700BP	326Y Gasket (2) 700-4BP Piston; 705BL Spring; 710B Gasket
K700XT	11-215 O-Ring; 600D2-2 Check Valve; 700-3X Seat Disc; 705-10L Spring; 710 Gasket; 725N Gasket(2); 5000-131 Retaining Ring
K700AXT	11-222 O-Ring; 73 Gasket(2); 600D3-2 Check Valve; 700-3AX Seat Disc; 705A10L Spring; 710A Gasket; 5000-175 Retaining Ring
K700BXT	326Y Gasket (2); 600D3XT Check Valve; 700-3BX Seat Disc; 705B15X Spring; 710B Gasket
K701JR	703JR Seat Disc; 710JR Gasket; 506 Gasket (2)
K701	703 Seat Disc; 710 Gasket; 725N Gasket (2)
K701A	703A Seat Disc; 710A Gasket; 73 Gasket (2)
K701B	703B Seat Disc; 710B Gasket; 326Y Gasket (2)
K1100	1101 Clear Glass; 1103 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 & 3010N Gaskets; 705L Spring; 11-012(2) & 107 O-rings; 027F0666 Seal Kit; 775 Packing
K3000PS	3003JR & 3003 Seat Discs; 3012JRL & 3012L Push Rods; 3013 & 3013JR Nuts; 3010JR & 3010N Gasket; 705L Spring; 3004 & 3004JR Pistons; 3006 & 3006JR Seats; 11-012(2) & 107 O-rings; 027B1120 Solenoid; 775 Packing
K3000N-BNT	3002NR1 Bonnet; 3017NR1 Stem; 3333NR1 Plug; 3010N Gasket; 027B1120 Solenoid; 775 Packing
K3000A	3003A & 3003B Seat Discs; 3012A & 3012B Push Rods; 710A & 3010AN Gaskets; 705AL Spring; 11-012(2) & 107 O-rings; 027F0666 Seal Kit; 775 Packing
K3000APS	3003A & 3003B Seat Discs; 3012A & 3012B Push Rods; 710A & 3010AN Gaskets; 705AL Spring; plus 3004A & 3004B Pistons; 3006A & 3006B Seats; 11-012(2) & 107 O-rings; 027B1120 Solenoid; 775 Packing
K3000AN-BNT	3002AN1 Bonnet; 3017NR1 Stem; 3333NR1 Plug; 3010AN Gasket; 027B1120 Solenoid; 775 Packing

VALVE PARTS KITS: MISCELLANEOUS			
Kit Catalog No.	For Valve	Orifice Size (In.)	List Price
K100	100; 100VP	$\frac{1}{16}$ to $\frac{5}{32}$ ; $\frac{3}{16}$	<b>\$592</b>
K101AB	101AB	$\frac{3}{8}$ ; $\frac{1}{2}$	<b>\$1,079</b>
K101ABF	101ABF	$\frac{3}{8}$ ; $\frac{1}{2}$	<b>\$1,082</b>
K101B	101B	$\frac{3}{8}$ ; $\frac{1}{2}$ ; $\frac{5}{8}$	<b>\$1,090</b>
K101BF	101BF	$\frac{3}{8}$ ; $\frac{1}{2}$ ; $\frac{5}{8}$	<b>\$1,090</b>
K152K	101, 101VP18	$\frac{5}{64}$ to $\frac{5}{32}$ ; $\frac{3}{16}$	<b>\$697</b>
K152K26	101VP-26" chamber	$\frac{1}{8}$ ; $\frac{5}{32}$ ; $\frac{3}{16}$	<b>\$684</b>
K152KF18	101F; 101VPF-18" chamber	$\frac{5}{64}$ to $\frac{5}{32}$ ; $\frac{3}{16}$	<b>\$684</b>
K152KF26	101VPF-26" chamber	$\frac{1}{8}$ ; $\frac{5}{32}$ ; $\frac{3}{16}$	<b>\$718</b>
K152KCP	101CP	$\frac{5}{64}$ to $\frac{5}{32}$ ; $\frac{3}{16}$	<b>\$684</b>
K152KCPF	101CPF	$\frac{5}{64}$ to $\frac{5}{32}$ ; $\frac{3}{16}$	<b>\$718</b>
K152L	101A	$\frac{3}{16}$ ; $\frac{1}{4}$ ; $\frac{5}{16}$ ; $\frac{3}{8}$ ; $\frac{13}{32}$	<b>\$957</b>
K152L18	101A-18" chamber	$\frac{1}{4}$	<b>\$970</b>
K152LF	101AF	$\frac{1}{4}$ ; $\frac{5}{16}$ ; $\frac{3}{8}$ ; $\frac{13}{32}$	<b>\$957</b>
K152LF18	101F-18" chamber	$\frac{1}{4}$	<b>\$957</b>
K152LCP	101CP	$\frac{1}{4}$ ; $\frac{5}{16}$ ; $\frac{3}{8}$	<b>\$957</b>
K152LCPF	101CPF	$\frac{1}{4}$ ; $\frac{5}{16}$ ; $\frac{3}{8}$	<b>\$991</b>
K210	210	$\frac{3}{32}$ to $\frac{9}{64}$	<b>\$515</b>
K210A	210A	$\frac{5}{32}$ ; $\frac{3}{16}$ ; $\frac{7}{32}$	<b>\$568</b>
K270A1	270A, 270AF, 275AF	$\frac{1}{16}$ ; $\frac{5}{64}$ ; $\frac{3}{32}$	<b>\$468</b>
K270A2	270A, 270AF, 275AF	$\frac{1}{8}$ ; $\frac{3}{16}$	<b>\$528</b>
K270AX	270AX	$\frac{13}{64}$	<b>\$528</b>
K270AY	270AY	$\frac{3}{8}$	<b>\$1,403</b>
K270AZ	270AZ; 270AZA; 270AZAZ	0.234	<b>\$727</b>
K275AP1	275AP; 275APF	$\frac{1}{16}$ ; $\frac{5}{64}$ ; $\frac{3}{32}$	<b>\$468</b>
K275AP2	275AP; 275APF	$\frac{1}{8}$ ; $\frac{3}{16}$	<b>\$528</b>
K280	225; 225B; 250; 250CB; 250P; 250L; 250VPF; 251CP	$\frac{5}{64}$ to $\frac{5}{32}$	<b>\$761</b>
K280-6	250VP (R717 only)	$\frac{7}{64}$ ; $\frac{9}{64}$ ; $\frac{5}{32}$	<b>\$761</b>
K310	300; 300H; 300HM; 300J; 300P; 300Y; 301E	$\frac{5}{64}$ ; $\frac{3}{32}$ ; $\frac{7}{64}$ ; $\frac{1}{8}$ ; $\frac{9}{64}$	<b>\$520</b>
K310A	300A; 300AM; 300YA; 301G	$\frac{5}{32}$ ; $\frac{3}{16}$ ; $\frac{7}{32}$	<b>\$566</b>
K310AX	300A; 300AM; 301G	$\frac{9}{32}$	<b>\$964</b>
K355	301; 301H; 301J; 301K; 301D; 301A	$\frac{3}{16}$ ; $\frac{7}{32}$ ; $\frac{9}{32}$	<b>\$1,070</b>

\*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 $\frac{1}{4}$	<b>\$210</b>
K600S	600; 600K	1, 1 $\frac{1}{4}$	<b>\$210</b>
K600A	600A; 600AK	1 $\frac{1}{2}$ , 2	<b>\$300</b>
K600AJ	600AJ	1 $\frac{1}{2}$ , 2	<b>\$248</b>
K600AS	600A; 600AK	1 $\frac{1}{2}$ , 2	<b>\$300</b>
K600BJ	600BJ	3	<b>\$582</b>
K600BJS	600BJS	3	<b>\$596</b>
K600DJ	600DJ	4	<b>\$596</b>
K600J	600J	1 $\frac{1}{4}$ , 1 $\frac{1}{2}$	<b>\$159</b>
K600JR	600JR	$\frac{1}{2}$ , $\frac{3}{4}$ , 1	<b>\$114</b>

#### 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	$\frac{1}{2}$ ; $\frac{3}{4}$	<b>\$51</b>
K700	700; 700S; 700H	1, 1 $\frac{1}{4}$	<b>\$77</b>
K700A	700A; 700AS; 700AH	1 $\frac{1}{2}$ , 2	<b>\$320</b>
K700B	700B; 700BS; 700BH	3	<b>\$259</b>
K700X	700X; 700XS; 700XH	1, 1 $\frac{1}{4}$	<b>\$65</b>
K700AX	700AX; 700AXS; 700AXH	1 $\frac{1}{2}$ , 2	<b>\$79</b>
K700BX	700BX; 700BXS; 700BXH	3	<b>\$143</b>

KITS: LOW SIDE PILOT OPERATED VALVES			
Kit Catalog No.	For Valve	Line Size (in.)	List Price
K701JR	701JR; 701JRS	$\frac{1}{2}$ ; $\frac{3}{4}$	<b>\$53</b>
K701	701; 701S	1, 1 $\frac{1}{4}$	<b>\$63</b>
K701A	701A; 701AS	1 $\frac{1}{2}$ , 2	<b>\$77</b>
K701B	701B; 701BS	3	<b>\$112</b>

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

KITS: 3-WAY SOLENOID OPERATED VALVES			
Kit Catalog No.	For Valve	Line Size (in.) *	List Price
K3000	3000N	$\frac{3}{4}$	<b>\$294</b>
K3000PS	3000N	$\frac{3}{4}$	<b>\$1,072</b>
K3000N-BNT	3000N	$\frac{3}{4}$	<b>\$943</b>
K3000A	3000AN	1 $\frac{1}{4}$	<b>\$432</b>
K3000APS	3000AN	1 $\frac{1}{4}$	<b>\$1,575</b>
K3000AN-BNT	3000AN	1 $\frac{1}{4}$	<b>\$1,544</b>

\*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 $\frac{1}{4}$	<b>\$695</b>
K700AXT	700AXT	1 $\frac{1}{2}$ , 2	<b>\$1,116</b>
K700BXT	700BXT	3	<b>\$1,830</b>

KITS: LEVEL EYE®		
Kit Catalog No.	For Level Eye®	List Price
K1100	Clear Level Eye®	<b>\$123</b>
K1100R	Reflex Level Eye®	<b>\$102</b>
K1100-T	Clear Level Eye® w/Teflon Gasket	<b>\$165</b>
K1100R-T	Reflex Level Eye® w/Teflon Gasket	<b>\$144</b>

KITS: INTERRUPTING VALVES			
Kit Catalog No.	For Valve	Line Size (in.)	List Price
K700AP	700AP	1 $\frac{1}{2}$ , 2	<b>\$451</b>
K700BP	700BP	3	<b>\$1,042</b>

**REPLACEMENT PARTS**

PART NO.	DESCRIPTION	LIST PRICE	PART NO.	DESCRIPTION	LIST PRICE	PART NO.	DESCRIPTION	LIST PRICE
2S3S-	SEAT & NEEDLE	\$493	67-8"	FLOAT	\$812	273AY	GLAND	\$282
2S403S-	SEAT & NEEDLE	\$391	67-16"	FLOAT	\$866	273M	GLAND	\$155
4	ADJUSTING NUT	\$60	67F-8"	FLOAT	\$758	273X	BOSS	\$121
4B	ADJUSTING NUT	\$60	67F-16"	FLOAT	\$830	275	FLOAT BLOCK	\$143
5G	GASKET	\$23	68-8"	FLOAT	\$864	276	LEVER	\$54
5GY	GASKET	\$23	68F-8"	FLOAT	\$916	277	LINK	\$104
5-2	SPRING	\$77	68F-12"	FLOAT	\$1,184	278	LINK	\$104
5-2A	SPRING	\$25	69	FLOAT	\$1,535	280-	CARTRIDGE	\$754
5-30A	SPRING	\$12	72	BOLT	\$7	281M	SCREEN	\$8
5-60L	SPRING	\$46	73	GASKET	\$13	284	ROD	\$31
5-61	SPRING	\$14	73L	GASKET	\$13	285A	SPRING	\$10
5AB45	SPRING	\$46	74	GASKET	\$11	289	GASKET	\$10
6	SPRING CONE	\$41	75K	O-RING	\$14	290S	STOP	\$19
6G	GASKET	\$26	79	FLOAT	\$307	291	CAP	\$93
6GY	GASKET	\$29	84	PIPE PLUG	\$10	292	GASKET	\$12
6T	SPRING CONE	\$54	87	LOCK NUT	\$6	293	GLAND	\$15
7	STEM	\$144	87S	LOCK NUT	\$15	294	STEM	\$108
7B	STEM	\$73	88	LOCK NUT	\$8	296	SCREW	\$12
8	GLAND	\$37	90P	PIPE PLUG	\$25	299A	CHAMBER	\$426
8B	GLAND	\$101	107	O-RING	\$8	302D	DISC	\$41
9AP	BONNET	\$567	108	O-RING	\$8	304	FOLLOWER	\$7
9B	BONNET	\$319	151B	GLAND	\$143	304A	FOLLOWER	\$10
9BF	BONNET	\$1,008	152B&153B-	SEAT & PLUNGER	\$1,013	305A	SPRING	\$5
9BP	BONNET	\$1,008	152KCP-	CARTRIDGE	\$657	307	BOSS	\$173
9F	BONNET	\$267	152LCP-	CARTRIDGE	\$930	307A	BOSS	\$282
10	LEVER	\$175	153B	PLUNGER ASSY	\$849	307ACB	BOSS	\$186
10B	LEVER	\$313	204E	ADJUSTING NUT	\$49	307B	BOSS	\$289
10CP	LEVER	\$259	211	SPRING PIN	\$7	307E	BOSS	\$296
10-11-1/2	LEVER	\$182	211AY	SPRING PIN	\$7	307G	BOSS	\$168
10-8-1/2-101	LEVER	\$182	211X	SPRING PIN	\$7	307H	BOSS	\$292
10-8-1/2-101A	LEVER	\$182	213A	FLOAT BLOCK	\$195	307J	BOSS	\$168
11	LEVER PIN	\$14	215CB	FLOAT BLOCK	\$159	308	PUSHER	\$86
11&SPACERS	LEVER PIN	\$29	220	FLOAT	\$348	308A	PUSHER	\$103
11B	LEVER PIN	\$15	220A	FLOAT	\$177	308ACB	PUSHER	\$429
11S	LEVER PIN	\$21	220PS	FLOAT	\$876	309	GASKET	\$6
11-012	O-RING	\$4	220PSF	FLOAT	\$1,096	309A	GASKET	\$5
11-210/11-215	O-RING	\$12	224	LOCK NUT	\$10	310-	CARTRIDGE	\$419
11-222	O-RING	\$15	227	CAP SCREW	\$6	310A-	CARTRIDGE	\$455
11-225/11-229	O-RING	\$15	228	STOP	\$14	310AX	CARTRIDGE	\$527
12	PIPE PLUG	\$10	228A	SCREW	\$15	311A	SCREEN	\$20
13	BUSHING	\$217	230	FLOAT BLOCK	\$91	313	FLOAT ROD	\$77
14	PLUG	\$94	230A	FLOAT BLOCK	\$60	313A	FLOAT ROD	\$112
14CB	PLUG	\$95	230X	FLOAT BLOCK	\$230	313AM	FLOAT ROD	\$101
14NP	PLUG	\$108	230Z	FLOAT BLOCK	\$77	313CP	FLOAT ROD	\$189
15	SPRING	\$15	231	LINK	\$12	313CPS	FLOAT ROD	\$358
16	SPRING CONE	\$31	243CB	FLOAT ROD	\$27	313HM	FLOAT ROD	\$97
18	SCREEN	\$83	261	SEALING WASHER	\$10	313R	FLOAT ROD	\$46
19	GASKET	\$7	262&403S-	SEAT BSHG. & NEEDLE	\$333	314	CAM NEEDLE	\$81
24A	BOLT	\$11	262A&263A-	SEAT BSHG. & NEEDLE	\$393	314A	CAM NEEDLE	\$83
24B	BOLT	\$12	262AY&263AY-	SEAT BSHG. & NEEDLE	\$1,268	314E	CAM NEEDLE	\$87
24C	BOLT	\$15	262AZ&263AZ	SEAT BSHG. & NEEDLE	\$560	314J	CAM NEEDLE	\$83
24D	BOLT	\$15	265AY	SPRING	\$14	315	FLOAT BLOCK	\$113
24E	BOLT	\$12	265C	SPRING	\$15	315ACB	FLOAT BLOCK	\$570
55	LOCK WASHER	\$6	265D-S	SPRING	\$21	315P	FLOAT BLOCK	\$108
55A	LOCK WASHER	\$6	265E	SPRING	\$14	315PA	FLOAT BLOCK	\$177
56	COTTER PIN	\$6	267	FLOAT	\$422	315PM	FLOAT BLOCK	\$213
57	NUT	\$3	267AZAZ	FLOAT	\$766	315R	FLOAT BLOCK	\$155
58	NUT	\$4	267F	FLOAT	\$659	315WA	FLOAT BLOCK	\$157
59	NUT	\$9	267Y	FLOAT	\$659	315WCB	FLOAT BLOCK	\$95
60	NUT	\$6	270M	ADJUSTING NUT	\$37	316	SET SCREW	\$12
62	BOLT	\$4	272AY	PUSHER	\$203	317J	NEEDLE	\$64
63	GASKET	\$8	272M	PUSHER	\$137	318P	STOP	\$48
63W	GASKET	\$8	272X	NEEDLE	\$51	319P	ADJUSTING PIECE	\$15

## REPLACEMENT PARTS

PART NO.	DESCRIPTION	LIST PRICE	PART NO.	DESCRIPTION	LIST PRICE	PART NO.	DESCRIPTION	LIST PRICE
321M	FLOAT	\$195	600D2	CHECK VALVE w/FLGS	\$595	700-4BP	PISTON	\$841
321MF	FLOAT	\$246	600D2-2	INNER CHECK VALVE	\$456	700-4BX	PISTON	\$373
321WCB	FLOAT	\$516	600D3	CHECK VALVE w/FLGS	\$1,197	700-4BXH	PISTON	\$625
322	LOCK NUT	\$6	600D3-2	INNER CHECK VALVE	\$953	700-4BXS	PISTON	\$477
324	LOCK NUT	\$6	600D3XT	CHECK VALVE	\$1,528	700-4BXT	PISTON	\$978
324S	LOCK NUT	\$15	601AJ	SNAP RING	\$25	700-4JRH	PISTON	\$332
325	CAP SCREW	\$8	601B	STEM	\$458	700-4JRSS	PISTON	\$414
325WCB	CAP SCREW	\$8	601BJ	SNAP RING	\$31	700-4JRX	PISTON	\$177
326	GASKET	\$14	601DJ	SNAP RING	\$52	700-4X	PISTON	\$177
326KZ	GASKET	\$23	601J	SNAP RING	\$21	700-4XH	PISTON	\$248
326Y	GASKET	\$14	601JR	SNAP RING	\$15	700-4XT	PISTON	\$356
326YA	GASKET	\$21	602A	BACK PLATE	\$248	700-7	FLUSH PLUG	\$48
327P	STEM	\$166	602AJ	BACK PLATE	\$57	700-7AQ	FLUSH PLUG	\$178
328E	GLAND	\$123	602AK	GUIDE PIECE	\$191	700-7AX	FLUSH PLUG	\$75
329	STOP	\$19	602BJ	BACK PLATE	\$275	700-7AXH-	METERING PLUG	\$207
331-15	FLOAT	\$772	602DJ	BACK PLATE	\$383	700-7AXS	FLUSH PLUG	\$93
331-15F	FLOAT	\$805	602K	GUIDE PIECE	\$164	700-7AXT	FLUSH PLUG	\$177
333	PIPE PLUG	\$10	603AJ	TEFLON RING	\$60	700-7BX	FLUSH PLUG	\$257
334CB	CONNECTOR	\$83	603BJ	TEFLON RING	\$83	700-7BXH-	METERING PLUG	\$329
343	FLOAT ROD	\$48	603DJ	TEFLON RING	\$126	700-7BXS	FLUSH PLUG	\$257
343A	FLOAT ROD	\$25	603J	TEFLON RING	\$48	700-7H-	METERING PLUG	\$207
343AZ	FLOAT ROD	\$105	603JR	TEFLON RING	\$27	700-7JR	FLUSH PLUG	\$43
343CP	FLOAT ROD	\$83	604	VALVE PIECE	\$164	700-7JRH-	METERING PLUG	\$159
343D	FLOAT ROD	\$52	604A	VALVE PIECE	\$238	700-7JRS	FLUSH PLUG	\$135
343H	FLOAT ROD	\$83	604AJ	VALVE PIECE	\$195	700-7S	FLUSH PLUG	\$139
343WA	FLOAT ROD	\$159	604B	VALVE PIECE	\$545	700-7T	FLUSH PLUG	\$118
343WCB	FLOAT ROD	\$19	604BJ	VALVE PIECE	\$507	702APN	BONNET	\$1,202
355-	CARTRIDGE	\$1,062	604DJ	VALVE PIECE	\$824	702AS	BONNET	\$319
356	SPRING	\$10	604J	VALVE PIECE	\$116	702BPN	BONNET	\$1,986
357	ADJUSTING SCREW	\$19	604JR	VALVE PIECE	\$79	702BS	BONNET	\$585
358	PUSHER	\$116	605A1	SPRING	\$23	702BT	BONNET	\$522
359	LOCK NUT	\$7	605A4	SPRING	\$21	702BXS	BONNET	\$619
363	PLUG	\$112	605AJ	SPRING	\$27	702JRS	BONNET	\$177
363-510CAP	STRAINER CAP	\$127	605B	SPRING	\$51	702S	BONNET	\$177
363P	STRAINER CAP	\$124	605BJ	SPRING	\$47	702T	BONNET	\$256
364	GASKET	\$21	605BJS	SPRING	\$61	703	SEAT DISC	\$27
365	GASKET	\$8	605DJ	SPRING	\$60	703A	SEAT DISC	\$41
369	ADJUSTING SCREW	\$29	605DJS	SPRING	\$116	703B	SEAT DISC	\$70
369A	STOP SCREW	\$20	605JR	SPRING	\$23	703JR	SEAT DISC	\$27
370A	FLOAT	\$664	608AJ	BACK PLATE RING	\$56	703JRN	SEAT DISC	\$41
370M	FLOAT	\$406	608BJ	BACK PLATE RING	\$68	703BXS	SEAT DISC	\$238
370MF	FLOAT	\$467	608DJ	BACK PLATE RING	\$104	704	PISTON	\$303
377	STEM	\$75	608J	BACK PLATE RING	\$46	704A	PISTON	\$397
398A	CHAMBER	\$1,616	608JR	BACK PLATE RING	\$29	704B	PISTON	\$874
398B	CHAMBER	\$1,616	610B	RETAINER	\$97	704JR	PISTON	\$278
403S	NEEDLE	\$48	626	GASKET	\$5	705	SPRING	\$25
411	LEVER PIN	\$22	700-2	BONNET	\$141	705-1L	SPRING	\$25
411&SPACERS	LEVER PIN	\$29	700-2A	BONNET	\$224	705-5L	SPRING	\$25
411-S	LEVER PIN	\$54	700-2AP	BONNET	\$662	705-10L	SPRING	\$25
431	LINK	\$12	700-2AT	BONNET	\$319	705-20L	SPRING	\$25
431AY	LINK	\$37	700-2B	BONNET	\$513	705-35L	SPRING	\$25
477K	SPRING	\$15	700-2BP	BONNET	\$373	705-35R	SPRING	\$25
477-1	SPRING	\$17	700-3A	SEAT DISC	\$284	705-45L	USE 705-50L	\$25
506	GASKET	\$8	700-3AX	SEAT DISC	\$43	705-50L	SPRING	\$25
515	SPRING	\$32	700-3B	SEAT DISC	\$217	705-60L	SPRING	\$25
516	SPRING CONE	\$47	700-3BX	SEAT DISC	\$101	705-60R	SPRING	\$25
516P	SPRING GUIDE	\$38	700-3X	SEAT DISC	\$29	705-70L	SPRING	\$25
517	SCREEN	\$184	700-4AP	PISTON	\$361	705-90L	SPRING	\$25
517JRP	SCREEN	\$164	700-4AX	PISTON	\$260	705-130L	SPRING	\$25
558	SCREEN	\$151	700-4AXH	PISTON	\$398	705A	SPRING	\$54
576	FLANGE	\$160	700-4AXHS	PISTON	\$467	705A-2L	SPRING	\$54
577	CAP SCREW	\$8	700-4AXS	PISTON	\$304	705A-10L	SPRING	\$54
580	SCREEN	\$348	700-4AXT	PISTON	\$845	705A-20L	SPRING	\$54

REPLACEMENT PARTS								
PART NO.	DESCRIPTION	LIST PRICE	PART NO.	DESCRIPTION	LIST PRICE	PART NO.	DESCRIPTION	LIST PRICE
705A-30L	SPRING	\$54	726C	BOLT	\$11	2256WA-	NOZZLE	\$589
705A-60L	SPRING	\$54	726D	BOLT	\$16	3000AN	BONNET ASSY	\$1,378
705A-110L	SPRING	\$54	726E	BOLT	\$22	3002	BONNET	\$197
705A-165L	SPRING	\$54	728	GASKET	\$6	3002A	BONNET	\$259
705A-114	SPRING	\$54	752AQ	SLEEVE	\$881	3002AN1	BONNET	\$1,184
705A-171	SPRING	\$54	754AQ	PISTON	\$547	3002JR	BONNET	\$207
705A-270	SPRING	\$54	775	PACKING RING	\$14	3002JRN	BONNET	\$152
705AL	SPRING	\$25	776	RETAINER	\$14	3002NR1	BONNET	\$582
705B-3L	SPRING	\$159	777BN	PACKING RING	\$19	3003	SEAT DISC	\$37
705B-10L	SPRING	\$159	1100H	HOUSING	\$147	3003A	SEAT DISC	\$48
705B-15X	SPRING	\$159	1100AH	HOUSING	\$171	3003B	SEAT DISC	\$70
705B-30L	SPRING	\$159	1100LH	HOUSING	\$205	3003JR	SEAT DISC	\$31
705B-60L	SPRING	\$159	1100CH	HOUSING	\$161	3004	PISTON	\$170
705B-100L	SPRING	\$159	1100LCH	HOUSING	\$220	3004A	PISTON	\$284
705B-160L	SPRING	\$159	1100ATH	HOUSING	\$204	3004B	PISTON	\$412
705BL	SPRING	\$159	1100TH	HOUSING	\$240	3004JR	PISTON	\$278
705L	SPRING	\$14	1100VH	HOUSING	\$407	3006	SEAT	\$72
706-9/16"	SEAT	\$116	1100SH	HOUSING	\$295	3006A	SEAT	\$116
706-23/32"	SEAT	\$116	1100LSH	HOUSING	\$406	3006B	SEAT	\$143
706A-23/32"	SEAT	\$141	1100SCH	HOUSING	\$309	3006JR	SEAT	\$70
706A-7/8"	SEAT	\$141	1100LSCH	HOUSING	\$421	3010	GASKET	\$10
706B	SEAT	\$203	1101	LENS - CLEAR	\$107	3010AN	GASKET	\$9
706JR-3/8"	SEAT	\$116	1101B	BLANKING LENS	\$58	3010JR	GASKET	\$10
706JR-9/16"	SEAT	\$116	1101R	LENS - REFLEX	\$86	3010N	GASKET	\$10
706JRP	SEAT	\$77	1102SH	RETAINER SS HEX	\$147	3012A	PUSH ROD	\$102
707-9/16-	METERING PLUG	\$104	1103	GASKET	\$10	3012B	PUSH ROD	\$116
707-23/32-	METERING PLUG	\$104	1103T	GASKET - TEFLON	\$52	3012JRL	PUSH ROD	\$64
707A-23/32-	METERING PLUG	\$131	1104	GASKET	\$6	3012L	PUSH ROD	\$64
707A-7/8-	METERING PLUG	\$131	1105	FROST SHIELD	\$73	3013	NUT	\$8
707B-	METERING PLUG	\$303	1105L	FROST SHIELD	\$94	3013JR	NUT	\$8
707JR-3/8-	METERING PLUG	\$126	1105/1106	FRST SHLD/O-RING	\$78	3014	TUBE ASSY	\$133
707JR-9/16-	METERING PLUG	\$126	1105L/1106	FRST SHLD/O-RING	\$100	3014A	TUBE ASSY	\$133
708A	SPRING CONE	\$72	1106	O-RING	\$6	3014TF	TUBE FITTING	\$58
708AT	SPRING CONE	\$79	1358	GASKET	\$14	3017NR	STEM	\$70
708B	SPRING CONE	\$72	1458	GASKET	\$27	3017NR1	STEM	\$70
708BT	SPRING CONE	\$238	1459	BOLT	\$7	3333NR	PLUG	\$57
708BXT	SPRING CONE	\$257	2026SL-	NOZZLE	\$345	3333NR1	PLUG	\$57
710	GASKET	\$8	2027SL-	THROAT	\$205	5000-131	SNAP RING	\$12
710A	GASKET	\$10	2028SL	NUT	\$72	5000-175	SNAP RING	\$15
710B	GASKET	\$14	2029	GASKET	\$5	5108-137	SNAP RING	\$12
710JR	GASKET	\$10	2030SL	NUT	\$74	5108-177	SNAP RING	\$17
711	STEM	\$112	2046SL-	NOZZLE	\$226	B-10985	CHAMBER	\$1,787
711A	STEM	\$119	2047SL-	THROAT	\$109	RHR120	DELAY RLY 120V	\$510
711AXT	STEM	\$177	2048	NUT	\$119	RHR240	DELAY RLY 240V	\$510
711B	STEM	\$191	2049	GASKET	\$8	TBASE	OCTAL BASE	\$163
711BT	STEM	\$217	2076W	FRONT PIECE	\$27	THR120	TIMER ASSY 120V	\$673
711X	STEM	\$83	2077W-	THROAT	\$143	THR240	TIMER ASSY 240V	\$673
711XS	STEM	\$94	2077W-BL	THROAT BLANK	\$136	U4-1	NUT	\$81
711XT	STEM	\$170	2101W	FRONT PIECE	\$96	U4-1S	NUT	\$81
714	SEAL CAP	\$126	2106SL-	NOZZLE	\$337	U4-3S	RETAINER	\$62
714N	SEAL CAP	\$23	2107SL-	THROAT	\$154	U4-4	GASKET	\$6
714B	SEAL CAP	\$231	2107W-	THROAT	\$345	U6-1S	NUT	\$104
718	CAP SCREW	\$6	2108SL	NUT	\$117	U6-4	GASKET	\$8
720	GASKET	\$10	2110SL	CONNECTOR	\$78			
720B	GASKET	\$10	2111	GASKET	\$6			
721A	BOLT	\$5	2125WA-3	INJ. WELDMENT	\$460			
721B	BOLT	\$5	2126-	NOZZLE	\$493			
721L	BOLT	\$7	2127WA-	THROAT	\$284			
723	GASKET	\$8	2130	NUT	\$66			
725	GASKET	\$10	2131B	CONNECTOR	\$38			
725N	GASKET	\$14	2157WA-	THROAT	\$229			
726	BOLT	\$12	2222-	NOZZLE	\$625			
726B	BOLT	\$11	2223W-	THROAT	\$944			



## RETURN MATERIAL AUTHORIZATION POLICY

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

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

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

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

#### Returns:

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

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

#### Repairs:

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

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

#### Returns:

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

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

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

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

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

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

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

## TERMS AND CONDITIONS OF SALE

- 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.