

Phillips®

REFRIGERATION

VALVES • VESSELS • SYSTEMS • CONTROLS

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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.

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

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

LEVEL EYE®
(LIQUID LEVEL SIGHT GLASSES)

REF: BULLETIN VB-22E-01

| Square-End Weld Housings | | | | | | Threaded Housings - 1-1/2" MPT | | | | | |
|---------------------------|---------------|------------|--------------------------|---------------|------------|--------------------------------|---------------|------------|--------------------------|---------------|------------|
| Part No. w/Reflex Lens | Length In. | List Price | Part No. w/Clear Lens | Length In. | List Price | Part No. w/Reflex Lens | Length In. | List Price | Part No. w/Clear Lens | Length In. | List Price |
| 1100-R | 2" | \$184 | 1100 | 2" | \$204 | 1100AT-R | 3" | \$238 | 1100AT | 3" | \$258 |
| 1100-RN | 2" | \$230 | 1100-N | 2" | \$250 | 1100AT-RN | 3" | \$284 | 1100AT-N | 3" | \$304 |
| 1100-RNX | 2" | \$250 | 1100-NX | 2" | \$270 | 1100AT-RNX | 3" | \$304 | 1100AT-NX | 3" | \$324 |
| 1100A-R | 3" | \$207 | 1100A | 3" | \$227 | 1100T-R | 4" | \$273 | 1100T | 4" | \$293 |
| 1100A-RN | 3" | \$253 | 1100A-N | 3" | \$273 | 1100T-RN | 4" | \$319 | 1100T-N | 4" | \$339 |
| 1100A-RNX | 3" | \$273 | 1100A-NX | 3" | \$293 | 1100T-RNX | 4" | \$339 | 1100T-NX | 4" | \$359 |
| 1100L-R | 4" | \$239 | 1100L | 4" | \$259 | 1100V-R † | 2" | \$432 | 1100V † | 2" | \$452 |
| 1100L-RN | 4" | \$285 | 1100L-N | 4" | \$305 | 1100V-RN † | 2" | \$478 | 1100V-N † | 2" | \$498 |
| 1100L-RNX | 4" | \$305 | 1100L-NX | 4" | \$325 | 1100V-RNX † | 2" | \$498 | 1100V-NX † | 2" | \$518 |

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

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

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

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

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

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

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

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

*Level Eye welded on chamber
†includes DIN connection

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

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

* Also available for lease - contact factory

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

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

*ODC flanges are also available. Consult factory for pricing

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

ORDERING INSTRUCTIONS:

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

FLANGES

REF: BULLETIN VB-22E-01

| Size | Socket Weld | | Threaded | | Weld Neck | | Union Kits* | |
|-------------|------------------|------------|----------------|------------|------------------|------------|-------------|------------|
| | Part No. | List Price | Part No. | List Price | Part No. | List Price | Part No. | List Price |
| 1/2" oval | 4-MS or 4-FS | \$51 | 4-MT or 4FT | \$60 | N/A | - | KF075 | \$13 |
| 3/4" oval | 6-MS or 6-FS | \$51 | 6-MT or 6FT | \$60 | N/A | - | KF075 | \$13 |
| 1" oval | 8-MSO or 8-FSO | \$57 | 8-MTO or 8-FTO | \$67 | N/A | - | KFO100 | \$13 |
| 1" sq. | 8-MS or 8-FS | \$69 | 8-MT or 8-FT | \$79 | N/A | - | KF125 | \$17 |
| 1-1/4" sq. | 10-MS or 10-FS | \$69 | 10-MT or 10FT | \$79 | 10-MW or 10-FW | \$188 | KF125 | \$17 |
| 1-1/2" sq. | 12-MS or 12-FS | \$95 | 12-MT or 12-FT | \$114 | 12-MW or 12-FW | \$236 | KF150 | \$17 |
| 2" sq. | 16-MS or 16-FS | \$95 | 16-MT or 16-FT | \$114 | 16-MW or 16-FW | \$240 | KF200 | \$26 |
| 2-1/2" sq. | 20-MS or 20-FS | \$109 | N/A | - | 20-MW or 20-FW | \$273 | KF250 | \$46 |
| 3" sq. | 24-MS or 24-FS | \$116 | N/A | - | 24-MW or 24-FW | \$318 | KF300 | \$47 |
| 4" sq. | 32-MS or 32-FS | \$133 | N/A | - | 32-MW or 32-FW | \$397 | KF400 | \$49 |
| 5" rd. | 40-MS or 40-FS | \$351 | N/A | - | 40-MW or 40-FW | \$660 | KF500 | \$95 |
| 5" rd. York | 40-MSY or 40-FSY | \$365 | N/A | - | 40-MWY or 40-FWY | \$674 | KF500Y | \$95 |
| 6" rd. | 48-MS or 48-FS | \$392 | N/A | - | 48-MW or 48-FW | \$762 | KF600 | \$96 |
| 6" rd. York | 48-MSY or 48-FSY | \$405 | N/A | - | 48-MWY or 48-FWY | \$776 | KF600Y | \$96 |
| 8" rd. | 64-MS or 64-FS | \$2,000 | N/A | - | 64-MW or 64-FW | \$2,245 | KF800 | \$98 |
| 10" rd. | 80-MS or 80-FS | \$1,300 | N/A | - | 80-MW or 80-FW | \$1,669 | KF1000 | \$134 |

ORDERING INSTRUCTIONS:

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

UNION KIT INCLUDES:

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

FLANGED UNIONS TONGUE & GROOVE

REF: BULLETIN VB-22E-01

| Size | Socket Weld | | Threaded | | Weld Neck | |
|-------------|-------------|------------|----------|------------|-----------|------------|
| | Part No. | List Price | Part No. | List Price | Part No. | List Price |
| 1/2" oval | U-4S | \$115 | U-4T | \$133 | N/A | - |
| 3/4" oval | U-6S | \$115 | U-6T | \$133 | N/A | - |
| 1" oval | U-8SO | \$127 | U-8TO | \$147 | N/A | - |
| 1" sq. | U-8S | \$155 | U-8T | \$175 | N/A | - |
| 1-1/4" sq. | U-10S | \$155 | U-10T | \$175 | U-10W | \$393 |
| 1-1/2" sq. | U-12S | \$207 | U-12T | \$245 | U-12W | \$489 |
| 2" sq. | U-16S | \$216 | U-16T | \$254 | U-16W | \$506 |
| 2-1/2" sq. | U-20S | \$264 | N/A | - | U-20W | \$592 |
| 3" sq. | U-24S | \$279 | N/A | - | U-24W | \$683 |
| 4" sq. | U-32S | \$315 | N/A | - | U-32W | \$843 |
| 5" rd. | U-40S | \$797 | N/A | - | U-40W | \$1,415 |
| 5" rd. York | U-40SY | \$825 | N/A | - | U-40WY | \$1,443 |
| 6" rd. | U-48S | \$880 | N/A | - | U-48W | \$1,620 |
| 6" rd. York | U-48SY | \$906 | N/A | - | U-48WY | \$1,648 |
| 8" rd. | U-64S | \$4,098 | N/A | - | U-64W | \$4,588 |
| 10" rd. | U-80S | \$2,734 | N/A | - | U-80W | \$3,472 |

ORDERING INSTRUCTIONS:

1. Union Connection Type
2. Union Size

FLANGED UNIONS INCLUDE:

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

WATER TESTING APPARATUS

REF: BULLETIN ANW-SB17-01

| Part No. | Description | List Price |
|----------|---|------------|
| ANH-MS | Moisture Sampling Flask, graduated 100ml capacity | \$199 |
| ANH-AS | Sampling stand kit, incl. (1) ANH-MS, stand, feed/vent assy, storage case | \$1,263 |

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

REF: BULLETIN VB-22E-01

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

FOR USE WITH AMMONIA (R717)

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

FOR USE WITH HALOCARBONS

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

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

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

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

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

** Socket weld or weld neck only

ORDERING INSTRUCTIONS:

For Pilot Valve:

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

For Pilot Float Valve:

1. Orifice Size
2. Chamber requirements

FOR FACTORY SELECTION ASSISTANCE, ADVISE:

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

**HIGH SIDE FLOAT VALVES
SERIES 270A**

REF: BULLETIN VB-22E-01

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

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

| Control Package | Standard Items* | with Pressure Regulator and extra Service Valves |
|------------------------------------|-----------------|--|
| FOR USE WITH AMMONIA (R717) | | |
| RC-050 | \$5,320 | \$6,486 |
| RC-075 | \$5,370 | \$6,563 |
| RC-100 | \$5,681 | \$6,874 |
| RC-125 | \$5,892 | \$7,085 |
| RC-150 | \$7,493 | \$8,686 |
| RC-200 | \$7,776 | \$9,313 |
| RC-250 | \$8,473 | \$10,820 |
| RC-300 | \$10,818 | \$13,537 |
| RC-400 | \$11,478 | \$15,020 |

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

ORDERING INSTRUCTIONS:

Same as above for Pilot Valve and Pilot Float Valve.

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

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

NOTE: Optional Pilot Light Coil, Add \$54

ORDERING INSTRUCTIONS:

1. Voltage
2. Hertz

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

REF: BULLETIN VB-22E-01

| Valve Number | Flange Conn's. I.P.S.; THD. or Socket | Valve w/ Flanges | add for Weld Neck Flanges | Valve Only |
|---|---|---------------------|---------------------------------|----------------|
| CAST BODY - TYPE FORMERLY MANUFACTURED BY WOLF LINDE | | | | |
| 600JR | 1/2", 3/4", 1"¥ | \$310 | \$238 | \$195 |
| 600J | 1 1/4" 1 1/2" | \$449 | \$282 | \$242 |
| 600AJ | 1 1/2", 2" | \$648 | \$290 | \$432 |
| 600BJ* | 3" | \$1,174 | \$404 | \$895 |
| 600DJ* | 4" | \$1,704 | \$528 | \$1,389 |
| ALL STEEL BODY | | | | |
| 600K* | 1", 1 1/4" | \$536 | \$238 | \$381 |
| 600AK* | 1 1/2", 2" | \$713 | \$290 | \$497 |

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

ORDERING INSTRUCTIONS:

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

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

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

REF: BULLETIN VB-22E-01

| Valve Number | Flange Connections: IPS Threaded or Socket; ODC Copper | Valve w/ IPS Flanges | add for Weld Neck Flanges | Valve W/ ODC Flanges | Valve Only (Zinc Plated as Standard) | Close-Coupled Strainer Option* |
|--------------|--|-------------------------|---------------------------------|-------------------------|--|--------------------------------------|
| 700JRX | 1/2", 3/4", 1"*(IPS) 1 1/8", 1 3/8" (ODC) | \$613 | \$238 | \$969 | \$498 | S701JRP |
| 700X | 1", 1 1/4" (IPS) 1 1/8" (ODC) | \$771 | \$238 | \$1,112 | \$616 | S701 |
| 700AX | 1 1/2", 2" (IPS) 2 1/8" (ODC) | \$1,179 | \$290 | \$1,465 | \$963 | S701A |
| 700BX | 3" (IPS) 3 1/8" (ODC) | \$1,731 | \$404 | \$2,263 | \$1,452 | S701B |

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

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

ORDERING INSTRUCTIONS:

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

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

REF: BULLETIN VB-22E-01

| Valve Number | Flange Connections: IPS Threaded or Socket; ODC Copper | Valve w/ IPS Flanges | add for Weld Neck Flanges | Valve w/ ODC Flanges | Valve Only (Zinc Plated as Standard) | Close-Coupled Strainer Option* |
|--------------|--|-------------------------|---------------------------------|-------------------------|--|--------------------------------------|
| 700JRS | 1/2", 3/4", 1" (IPS) 1/8", 1/4" (ODC) | \$704 | \$238 | \$1,060 | \$589 | S701JRP |
| 700XS | 1", 1 1/4" (IPS) 1/8" (ODC) | \$853 | \$238 | \$1,194 | \$698 | S701 |
| 700AXS | 1 1/2", 2" (IPS) 2/8" (ODC) | \$1,281 | \$290 | \$1,567 | \$1,065 | S701A |
| 700BXS | 3" (IPS)** 3/8" (ODC) | \$1,808 | \$404 | \$2,340 | \$1,529 | S701B |

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

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

** 3" Flanges not available threaded

ORDERING INSTRUCTIONS:

1. Valve Number
2. Flange Size, Type

NOTE: No spring requirement necessary to order

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

REF: BULLETIN CV-700-T-67

| Valve Number | Flange Connections: IPS Threaded or Socket; ODC Copper | Valve w/ IPS Flanges | add for Weld Neck Flanges | Valve w/ ODC Flanges | Valve Only (Zinc Plated as Standard) | Close-Coupled Strainer Option* |
|--------------|--|-------------------------|---------------------------------|-------------------------|--|--------------------------------------|
| 700XT | 1", 1 1/4" (IPS) 1/8" (ODC) | \$950 | \$238 | \$1,266 | \$795 | S701 |
| 700AXT | 1 1/2", 2" (IPS) 2/8" (ODC) | \$1,616 | \$290 | \$1,902 | \$1,400 | S701A |
| 700BXT | 3" (IPS)** 3/8" (ODC) | \$2,492 | \$404 | \$3,024 | \$2,213 | S701B |

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

** 3" Flanges not available threaded

ORDERING INSTRUCTIONS:

1. Valve Number
2. Flange Size and Type

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

REF: BULLETIN CV-700-T-67

| Valve Number | Flange Connections: IPS Threaded or Socket; ODC Copper | Valve w/ IPS Flanges | add for Weld Neck Flanges | Valve w/ ODC Flanges | Valve Only (Zinc Plated as Standard) | Close-Coupled Strainer Option* |
|--------------|--|-------------------------|---------------------------------|-------------------------|--|--------------------------------------|
| 700AP | 1 1/2", 2" (IPS) 2/8" (ODC) | \$1,513 | \$290 | \$1,799 | \$1,297 | S701A |
| 700BP | 3" (IPS)** 3/8" (ODC) | \$2,329 | \$404 | \$2,861 | \$2,050 | S701B |

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

** 3" Flanges not available threaded

ORDERING INSTRUCTIONS:

1. Valve Number
2. Flange Size and Type

**LOW SIDE FLOAT VALVES
FIXED LEVEL - DIRECT FEED
(INTERNAL MOUNT)
SERIES 300H**
REF: BULLETIN VB-22E-01

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

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

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

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

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

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

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

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

SPECIAL APPLICATION

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

OIL FLOAT VALVES

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

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

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

**HIGH SIDE OIL DRAIN VALVE
(FOR ALL REFRIGERANT OILS)
SERIES 270A**
REF: BULLETIN VB-22E-01

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

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

**LOW SIDE FLOAT VALVES
(ADJUSTABLE LEVEL - REMOTE FEED)
SERIES 101
REF: BULLETIN VB-22E-01**

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

+ See below for ordering instructions

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

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

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

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

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

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

NOTE: Pilot Line Kit available for 1/4" pipe PLK-1/4, \$313; for 3/8" tubing PLK-3/8, \$521
Kits include angle valve, pressure gauge, gauge valve and fittings

ORDERING INSTRUCTIONS:

For Pilot Operated Valve:

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

For Pilot Float Valve:

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

For Pilot Kit: 1. Voltage 2. Hertz

FOR FACTORY SELECTION ASSISTANCE, ADVISE:

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

+ Left Hand Flow (LHF): Arrow ← on Valve Body
+ Right Hand Flow (RHF): Arrow → on Valve Body

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

REF: BULLETIN VB-22E-01

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

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

REF: BULLETIN VB-22E-01

FOR USE WITH AMMONIA (R717)

| 701S Pilot Operated Valve | | | | | | | | 301 Pilot Valve | | | |
|---------------------------|-----------------|----------|---|--------------|---------------------|--------------------------|--------------------|-------------------|---------------------|-----------------|---------|
| Pilot Operated Valve | Series 701 Port | Strainer | Available Connections | with Flanges | w/ Flanged Strainer | Valve Only (Zinc Plated) | add for W.N. Flgs. | Pilot Float Valve | Pilot Valve Orifice | 301 Pilot Valve | |
| | | | IPS - THD. or Socket, ODC (Copper Connectors) | | | | | | | with Flanges | Chamber |
| 701JRS | 3/8", 9/16" | S701JR | 1/2", 3/4", 1" * | \$1,322 | \$1,637 | \$1,207 | \$238 | 301E | 3/32", 1/8" | \$2,587 | \$1,117 |
| 701S | 9/16", 23/32" | S701 | 1", 1 1/4" | \$1,448 | \$1,853 | \$1,293 | \$238 | 301E | 3/32", 1/8" | \$2,587 | \$1,117 |
| 701AS | 7/8", 23/32" | S701A | 1 1/2", 2" | \$2,256 | \$3,134 | \$2,040 | \$290 | 301E | 1/8" | \$2,587 | \$1,117 |
| 701BS | 1 1/4" | S701B | 3" (SW or WN) | \$4,219 | \$5,712 | \$3,940 | \$404 | 301G | 5/32" | \$2,807 | \$1,337 |
| 701BXS | 1 9/16" | S701B | 4" (Weld neck) | \$5,066 | \$6,559 | \$4,383 | N/A | 301J | 3/16" | \$3,068 | \$1,598 |

FOR USE WITH HALOCARBONS

| 701S Pilot Operated Valve | | | | | | | | 301 Pilot Valve | | | |
|---------------------------|-----------------|----------|---|--------------|---------------------|--------------------------|--------------------|-------------------|---------------------|-----------------|---------|
| Pilot Operated Valve | Series 701 Port | Strainer | Available Connections | with Flanges | w/ Flanged Strainer | Valve Only (Zinc Plated) | add for W.N. Flgs. | Pilot Float Valve | Pilot Valve Orifice | 301 Pilot Valve | |
| | | | IPS - THD. or Socket, ODC (Copper Connectors) | | | | | | | with Flanges | Chamber |
| 701JRSF | 3/8", 9/16" | S701JR | 1/2", 3/4", 1" (IPS) * | \$1,322 | \$1,637 | \$1,207 | \$238 | 301EF | 3/32", 1/8" | \$2,667 | \$1,197 |
| | | | 1 1/8", 1 3/8" (ODC) | \$1,678 | \$1,993 | \$1,207 | N/A | | | \$2,667 | \$1,197 |
| 701SF | 9/16", 23/32" | S701 | 1", 1 1/4" (IPS) | \$1,448 | \$1,853 | \$1,293 | \$238 | 301EF | 3/32", 1/8" | \$2,667 | \$1,197 |
| | | | 1 5/8" (ODC) | \$1,789 | \$2,194 | \$1,293 | N/A | | | \$2,667 | \$1,197 |
| 701ASF | 7/8", 23/32" | S701A | 1 1/2", 2" (IPS) | \$2,256 | \$3,134 | \$2,040 | \$290 | 301EF | 1/8" | \$2,667 | \$1,197 |
| | | | 2 1/8" (ODC) | \$2,542 | \$3,420 | \$2,040 | N/A | | | \$2,667 | \$1,197 |
| 701BSF | 1 1/4" | S701B | 3" (IPS) SW or WN | \$4,219 | \$5,712 | \$3,940 | \$404 | 301GF | 5/32" | \$2,887 | \$1,417 |
| | | | 3 1/8" (ODC) | \$4,751 | \$6,244 | \$3,940 | N/A | | | \$2,887 | \$1,417 |
| 701BXS F | 1 9/16" | S701B | 4" (Weld Neck) | \$5,066 | \$6,559 | \$4,383 | N/A | 301JF | 3/16" | \$3,148 | \$1,678 |

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

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

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

ORDERING INSTRUCTIONS:

For Pilot Operated Valve:

- 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 92) |
| K700BX | 700-3BX Seat Disc; 710B Gasket; 326Y Gasket (2) |
| K700X | 700-3X Seat Disc; 710 Gasket; 725N Gasket (2) |
| K700AP | 73 Gasket (2); 700-4AP Piston; 705A Spring; 710A Gasket |
| K700BP | 326Y Gasket (2) 700-4BP Piston; 705BL Spring; 710B Gasket |
| K700XT | 11-215 O-Ring; 600D2-2 Check Valve; 700-3X Seat Disc; 705-10L Spring; 710 Gasket; 725N Gasket(2); 5000-131 Retaining Ring |
| K700AXT | 11-222 O-Ring; 73 Gasket(2); 600D3-2 Check Valve; 700-3AX Seat Disc; 705A10L Spring; 710A Gasket; 5000-175 Retaining Ring |
| K700BXT | 326Y Gasket (2); 600D3XT Check Valve; 700-3BX Seat Disc; 705B15X Spring; 710B Gasket |
| K701JR | 703JR Seat Disc; 710JR Gasket; 506 Gasket (2) |
| K701 | 703 Seat Disc; 710 Gasket; 725N Gasket (2) |
| K701A | 703A Seat Disc; 710A Gasket; 73 Gasket (2) |
| K701B | 703B Seat Disc; 710B Gasket; 326Y Gasket (2) |
| K1100 | 1101 Clear Glass; 1103 Rubber Gasket; 1104 Fiber Gasket |
| K1100R | 1101R Reflex Glass; 1103 Rubber Gasket; 1104 Fiber Gasket |
| K3000 | 3003JR & 3003 Seat Discs; 3012JRL & 3012L Push Rods; 3013 & 3013JR Nuts; 3010JR, 3010 & 3010N Gaskets; 705L Spring; 11-012 & 107 O-rings; 027F0666 Seal Kit |
| K3000PS | 3003JR & 3003 Seat Discs; 3012JRL & 3012L Push Rods; 3013 & 3013JR Nuts; 3010JR, 3010 & 3010N Gaskets; 705L Spring; 3004 & 3004JR Pistons; 3006 & 3006JR Seats; 11-012 & 107 O-rings; 027B1120 Solenoid |
| K3000A | 3003A & 3003B Seat Discs; 3012A & 3012B Push Rods; 710A, 710B & 3010AN Gaskets; 705AL Spring; 11-012 & 107 O-rings; 027F0666 Seal Kit |
| K3000APS | 3003A & 3003B Seat Discs; 3012A & 3012B Push Rods; 710A, 710B & 3010AN Gaskets; 705AL Spring; plus 3004A & 3004B Pistons; 3006A & 3006B Seats; 11-012 & 107 O-rings; 027B1120 Solenoid |

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

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

| KITS: CHECK VALVES (DISC TYPE) | | | |
|--------------------------------|-------------|-----------------------------------|--------------|
| Kit Catalog No. | For Valve | Line Size (In.) | List Price |
| K600 | 600; 600K | 1, $1\frac{1}{4}$ | \$201 |
| K600S | 600; 600K | 1, $1\frac{1}{4}$ | \$201 |
| K600A | 600A; 600AK | $1\frac{1}{2}$, 2 | \$286 |
| K600AJ | 600AJ | $1\frac{1}{2}$, 2 | \$236 |
| K600AS | 600A; 600AK | $1\frac{1}{2}$, 2 | \$286 |
| K600BJ | 600BJ | 3 | \$553 |
| K600BJS | 600BJS | 3 | \$566 |
| K600DJ | 600DJ | 4 | \$567 |
| K600J | 600J | $1\frac{1}{4}$, $1\frac{1}{2}$ | \$150 |
| K600JR | 600JR | $\frac{1}{2}$, $\frac{3}{4}$, 1 | \$110 |

ORDERING INSTRUCTIONS:

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

NOTES:

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

| KITS: CHECK VALVES (PISTON TYPE) | | | |
|----------------------------------|---|-------------------------------|--------------|
| Kit Catalog No. | For Valve | Line Size (In.) | List Price |
| K700JR | 700JR; 700JRS; 700JRX; 700JRH; 700JRXH | $\frac{1}{2}$; $\frac{3}{4}$ | \$47 |
| K700 | 700; 700S; 700H | 1, $1\frac{1}{4}$ | \$72 |
| K700A | 700A; 700AS; 700AH | $1\frac{1}{2}$, 2 | \$304 |
| K700B | 700B; 700BS; 700BH | 3 | \$245 |
| K700X | 700X; 700XS; 700XH | 1, $1\frac{1}{4}$ | \$61 |
| K700AX | 700AX; 700AXS; 700AXH | $1\frac{1}{2}$, 2 | \$74 |
| K700BX | 700BX; 700BXS; 700BXH | 3 | \$135 |

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

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

| KITS: 3-WAY SOLENOID OPERATED VALVES | | | |
|--------------------------------------|--------------|-------------------|----------------|
| Kit Catalog No. | For Valve | Line Size (in.) * | List Price |
| K3000 | 3000 & 3000N | $\frac{3}{4}$ | \$278 |
| K3000PS | 3000 & 3000N | $\frac{3}{4}$ | \$1,027 |
| K3000A | 3000A | $1\frac{1}{4}$ | \$412 |
| K3000APS | 3000A | $1\frac{1}{4}$ | \$1,509 |

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

| KITS: 3-WAY CHECK VALVES | | | |
|--------------------------|-----------|--------------------|----------------|
| Kit Catalog No. | For Valve | Line Size (in.) | List Price |
| K700XT | 700XT | 1, $1\frac{1}{4}$ | \$661 |
| K700AXT | 700AXT | $1\frac{1}{2}$, 2 | \$1,064 |
| K700BXT | 700BXT | 3 | \$1,741 |

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

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

REPLACEMENT PARTS

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

REPLACEMENT PARTS

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

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

RETURN MATERIAL AUTHORIZATION POLICY

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

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

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

1. Customer contacts H. A. Phillips & Co. for a Return Material Authorization (RMA) number.
2. H. A. Phillips & Co. issues the customer 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.