### Hydrants D-1

# Waterous Pacer WB-67-250





#### **Pacer's Exceptional Features**

Many years of experience have taught Waterous what customers want in a hydrant. They have applied this knowledge into the Pacer design. As a result it incorporates the best features of all hydrants with additional features not available elsewhere. Pacer is a functionally designed hydrant unmatched in overall convenience. In addition, Pacer meets or exceeds all applicable industry standards.

Pacer offers such quality convenience features as:

- 250 PSI Rating Designed for 250 psi working pressure and tested to 500 psi hydrostatic pressure.
- All Ductile Iron Construction Its lighter, stronger, smoother and more uniform than hydrants of cast iron construction.
- 360 Degree Nozzle Rotation The stainless steel retaining ring system allows 360° rotation by merely loosening the flange bolts and turning the nozzle section to the exact position desired.
- All Bronze Drain No composition, plastic, rubber or leather face to chip, peel or crack.
- Fusion Bonded Epoxy Coating The interior and exterior of the MJ shoe as well as the upper and lower valve washers are fully coated with fusion applied epoxy.

### **WB-67-250 Specifications**

- Hydrant shall conform to AWWA C-502 "Standard for Dry-Barrel Fire Hydrants."
- Hydrant shall be the traffic model design with replaceable parts designed to break away without water loss and damage to other parts of the hydrant.
- Hydrant shall be designed for 250 psi working pressure and tested to 500 psi hydrostatic pressure.
- Main valve opening shall be a minimum of 51/4".
- The bronze valve seat shall thread into a bronze subseat.

- The all bronze drain plunger shall be positively operated by the main operating rod.
- A travel stop nut shall be used to provide a positive limit to the travel of the main operating rod.
- The hydrant shall have a two piece operating nut for durability and low maintenance.
- The nozzle section shall be ductile iron and capable of 360° rotation by simply loosening the four ground flange bolts.
- Nozzles shall be mechanically attached with a ductile iron retainer and sealed with an O-Ring.
- The upper and lower standpipe and extensions shall be ductile iron with a minimum inside diameter of 71/4".
- The MJ shoe and upper and lower valve washers shall be fully coated with a fusion applied epoxy.
- The MJ shoe shall be attached to the lower barrel with stainless steel bolts and nuts.
- The MJ shoe shall have a flat bottom, ribbed back and strapping lugs to facilitate installation.
- The hydrant design shall allow plugging of the drains without excavating.

DEPTH OF BURY	DIRECTION TO OPEN	PRODUCT NUMBER*
5' 0"	OL	41780
5' 6"	OL	41785
6' 0"	OL	41790
6' 6"	OL	41795
7' 0"	OL	41800
7' 6"	OL	41805
5' 0"	OR	41810
5' 6"	OR	41815
6' 0"	OR	41825
6' 6"	OR	41830
7' 0"	OR	41835
7' 6"	OR	41840

<sup>\*</sup> Product numbers are for hydrants with drains. Hydrants without drains are available and are stocked at Team EJP locations in states requiring non-draining hydrants.

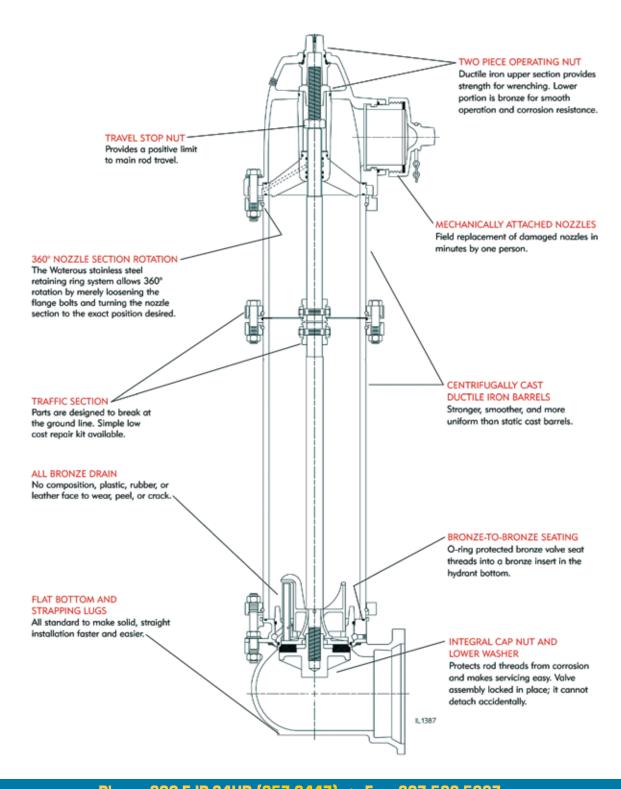
**NOTE:** Demonstration trailer and training tapes are available if you would like to learn more about the Waterous Pacer WB-67-250 hydrant.

The WB-67-250 Hydrant is UL listed and FM approved.

### Hydrants D-2

# Waterous Pacer WB-67-250

#### Waterous Pacer WB-67-250 Construction



Phone: 800-EJP-24HR (357-2447) • Fax: 207-582-5637

### Hydrants D-3

## Waterous Pacer WB-67-250



#### Maintenance Kit



This kit is available to assist you in the routine maintenance of hydrants. It includes such items as main valve rubbers, gaskets, O-Rings, nuts, bolts, snap rings and lubricants.

DESCRIPTION	PRODUCT NUMBER
W Hyd. Maintenance Kit	41910

### WB-67-250 Top Extension Kit



A hydrant so low that connection of a hose is impossible or difficult is a community hazard. The Waterous Top Extension Kit allows for fast and inexpensive extension of the nozzle section, to any desired height (in 6" increments) in case of grade change.

DESCRIPTION	PRODUCT NUMBER	
6" W Hyd. Top Extension	41885	
12" W Hyd. Top Extension	41890	
18" W Hyd. Top Extension	41895	
24" W Hyd. Top Extension	41900	

**NOTE:** Longer length extensions are available by special order. Please call your local Team EJP sales office for price and availability.

### WB-67-250 Break Repair Kit



Need for hydrant repairs is frequently the result of traffic accidents. Since they cannot be eliminated, minimizing the cost of repair is the next best thing. This is being done in many cities by using the Pacer WB-67-250 Traffic Model Hydrant.

The Pacer is designed to break away without water loss and without damaging the lower barrel or other vital parts of the hydrant. Repairs can be made without digging or shutting off the water because the Pacer is a true compression hydrant in which the main valve closes with and is held shut by water pressure.

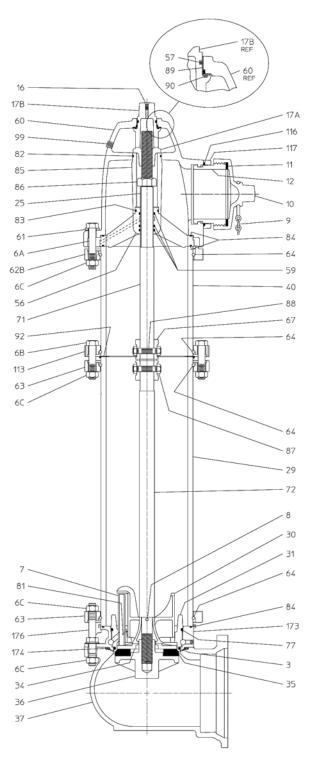
The Traffic Repair Kit makes repairs simple and fast. Only the parts which were so designed will break away on impact. Repair is simply a matter of removing the broken parts and installing new parts, all of which are included in the repair kit.

DESCRIPTION	PRODUCT NUMBER
W Hyd. Break Repair Kit DI	41905

# Hydrants **D-4**

# Waterous Pacer WB-67-250

#### **WB-67-250 Parts**



No.   DESCRIPTION   MATERIAL   NUMBER						
3	REF. NO.	DESCRIPTION	MATERIAL			
6B         Hex HD Bolt, %" x 11 x 3"         Zinc Pltd.         41957 1           6C         Hex Nut, %"-11"         Zinc Pltd.         41957 1           7         Drain Plunger         Red Brass         41912           8         Cotter Pin, ¼" x 1½"         Stainless         41980           9A         Nozzle Cap Chain, Single         Zinc Pltd.         42016           10A         Nozzle Cap Chain, Double         Zinc Pltd.         42016           10A         Nozzle Cap, Hose         Ductile Iron         41970           10B         Nozzle Cap, Hose         Ductile Iron         41975           11A         Hose Nozzle Cap Gasket         Neoprene         42013           11B         Pumper Nozzle Cap Gasket         Neoprene         42013           11B         Pumper Nozzle         Brass         41998           12A         Pumper Nozzle         Brass         41998           12B         Hose Nozzle         Brass         41998           12A         Pumper Nozzle         Brass         41998           12A         Pumper Nozzle         Brass         41998           12B         Hose Nozzle         Brass         41997           12A         Verating Nut	3	O-Ring Packing	Buna-N			
6C         Hex Nut, ⅓"-11"         Zinc Pltd.         41957 1           7         Drain Plunger         Red Brass         41912           8         Cotter Pin, ⅓" x 1½"         Stainless         41980           9A         Nozzle Cap Chain, Single         Zinc Pltd.         42016 1           9B         Nozzle Cap Chain, Double         Zinc Pltd.         42016 1           10A         Nozzle Cap, Hose         Ductile Iron         41955           10B         Nozzle Cap, Pumper         Ductile Iron         41955           11A         Hose Nozzle Cap Gasket         Neoprene         42013           11B         Pumper Nozzle         Brass         41997           12A         Pumper Nozzle         Brass         41998           16         Flat HD Screw, ¼-20 x ½"         Stainless         41997           17A         Operating Nut, Lower OR         Bronze         42001           17B         Operating Nut, Lower OB         Bronze         42001           17A         Operating Nut, Lower OL         Bronze         4201           25         Valve Rod Bushing         Red Brass         41960           30         Crossarm         Bronze         41976           31	6A		Zinc Pltd.	41957 2		
Drain Plunger			<del>                                     </del>			
Stainless			<del>                                     </del>			
Nozzle Cap Chain, Double	_		<del>                                     </del>			
Nozzle Cap Chain, Double		Cotter Pin, 1/4" x 11/2"	<del>                                     </del>			
10A			<del>                                     </del>			
10B			<del>                                     </del>			
11A   Hose Nozzle Cap Gasket   Neoprene   42013     11B   Pumper Nozzle Cap Gasket   Neoprene   42015     12A   Pumper Nozzle   Brass   41997     12B   Hose Nozzle   Brass   41998     16   Flat HD Screw, ⅓-20 x ⅓"   Stainless   41971     17A   Operating Nut, Lower OR   Bronze   42000     17A   Operating Nut, Lower OL   Bronze   42001     17B   Operating Nut, Upper   Ductile Iron   42012     25   Valve Rod Bushing   Red Brass   41960     29   Standpipe   Ductile Iron   ***     30   Crossarm   Bronze   41987     31   Valve Seat   Bronze   41976     34   Upper Valve Washer   Ductile Iron   41978     35   Main Valve Rubber   Urethane   41979     36   Lower Valve Washer   Ductile Iron   41977     37   Hydrant Bottom   Ductile Iron   41906     40   Upper Standpipe   Ductile Iron   41906     56   Support Wheel   Ductile Iron   41906     57   O-Ring (operating nut)   Buna-N   41983     59   O-Ring (support wheel)   Buna-N   41963     60   Nozzle Section (OR or OL)   Ductile Iron   41904     61   Bury Depth Plate   Maluminum   41964     61   Bury Depth Plate   Aluminum   41964     62B   Upper Standpipe Flag. (WB-67-250)   Ductile Iron   41990     63   Standpipe Flange   Ductile Iron   41990     64   Flange Lock Ring   Stainless   41991     71   Upper Rod Assembly OR   Steel   41975     72   Lower Rod (specify length)   Steel   41967     73   Upper Tube Seal   Buna-N   41988     84   Support Gasket   Buna-N   41988     85   Support Gasket   Buna-N   41988     86   Stop Nut OR 1"-8   Pltd. Steel   41994     87   Coupling Steeve (2 halves)   Gray Iron   41974     88   Support Gasket   Buna-N   41986     89   O-Ring (upper valve seat)   Buna-N   41986     80   O-Ring (upper valve seat)   Buna-N   41986     90   Thrust Ring (Starting Jan. 1970)   Teflon   41980     91   Program of Gasket   Pltd. Steel   41991     92   Upper Standpipe Gasket   Neoprene   41966     93   Piper Rod Assembly OL   Pltd. Steel   41991     94   Puper Standpipe Gasket   Neoprene   41966     95   Porting (Starting Jan. 1970)   Teflon   42015     17			<del>                                     </del>			
11B						
12A   Pumper Nozzle   Brass   41997     12B   Hose Nozzle   Brass   41998     16   Flat HD Screw, ¼-20 x ½"   Stainless   41971     17A   Operating Nut, Lower OR   Bronze   42000     17A   Operating Nut, Lower OL   Bronze   42001     17B   Operating Nut, Upper   Ductile Iron   42012     25   Valve Rod Bushing   Red Brass   41960     29   Standpipe   Ductile Iron   ***     30   Crossarm   Bronze   41987     31   Valve Seat   Bronze   41976     34   Upper Valve Washer   Ductile Iron   41978     35   Main Valve Rubber   Urethane   41979     36   Lower Valve Washer   Ductile Iron   41977     37   Hydrant Bottom   Ductile Iron   41906     40   Upper Standpipe   Ductile Iron   41906     40   Upper Standpipe   Ductile Iron   41906     56   Support Wheel   Ductile Iron   41992     57   O-Ring (operating nut)   Buna-N   41983     59   O-Ring (support wheel)   Buna-N   41963     60   Nozzle Section (OR or OL)   Ductile Iron   41904     61   Bury Depth Plate   Aluminum   41964     61   Bury Depth Plate   Washer   Pltd. Steel   41965     62B   Upper Standpipe Flg. (WB-67-250)   Ductile Iron   41990     63   Standpipe Flange   Ductile Iron   41989     64   Flange Lock Ring   Stainless   41991     65   Coupling Sleeve (2 halves)   Gray Iron   41974     71   Upper Rod Assembly OR   Steel   41965     72   Lower Rod (specify length)   Steel   41981     77   O-Ring (upper valve seat)   Buna-N   41969     81   Groove Pin ½" x ½"   Ber. Copper   41967     82   Upper Tube Seal   Buna-N   41984     83   Lower Tube Seal   Buna-N   41986     84   Support Gasket   Buna-N   41986     85   Support Tube   Ductile Iron   41984     86   Stop Nut OL I"-8   Pltd. Steel   41991     87   Coupling Sleeve (2 halves)   Gray Iron   41984     88   Support Tube   Ductile Iron   41986     80   Thrust Ring (Starting Jan. 1970)   Teflon   41982     90   Thrust Ring (Starting Jan. 1970)   Teflon   41982     90   Thrust Ring (Starting Jan. 1970)   Teflon   41982     91   O-ring (hose nozzle)   Buna-N   42015     118* O-ring (hose nozzle)   Buna-N   420						
12B			<del></del>			
16		i	<del>                                     </del>			
17A         Operating Nut, Lower OR         Bronze         42000           17B         Operating Nut, Lower OL         Bronze         42001           17B         Operating Nut, Upper         Ductile Iron         42012           25         Valve Rod Bushing         Red Brass         41960           29         Standpipe         Ductile Iron         ***           30         Crossarm         Bronze         41976           31         Valve Seat         Bronze         41976           34         Upper Valve Washer         Ductile Iron         41978           34         Upper Valve Washer         Ductile Iron         41978           35         Main Valve Rubber         Urethane         41979           36         Lower Valve Washer         Ductile Iron         42005           40         Upper Standpipe         Ductile Iron         42005           40         Upper Standpipe         Ductile Iron         41906           56         Support Wheel         Ductile Iron         41992           57         O-Ring (support wheel)         Buna-N         41963           60         Nozzle Section (OR or OL)         Ductile Iron         41904           61         Bury Dep			<del>                                     </del>			
17A         Operating Nut, Upper         Bronze         42001           17B         Operating Nut, Upper         Ductile Iron         42012           25         Valve Rod Bushing         Red Brass         41960           29         Standpipe         Ductile Iron         ***           30         Crossarm         Bronze         41987           31         Valve Seat         Bronze         41976           34         Upper Valve Washer         Ductile Iron         41978           35         Main Valve Rubber         Urethane         41979           36         Lower Valve Washer         Ductile Iron         41977           37         Hydrant Bottom         Ductile Iron         41906           40         Upper Standpipe         Ductile Iron         41906           56         Support Wheel         Ductile Iron         41992           57         O-Ring (operating nut)         Buna-N         41983           59         O-Ring (support wheel)         Buna-N         41963           60         Nozzle Section (OR or OL)         Ductile Iron         41904           61         Bury Depth Plate Washer         Pltd. Steel         41965           62B         Upper Sta			<del>                                     </del>			
17B         Operating Nut, Upper         Ductile Iron         42012           25         Valve Rod Bushing         Red Brass         41960           29         Standpipe         Ductile Iron         ***           30         Crossarm         Bronze         41987           31         Valve Seat         Bronze         41976           34         Upper Valve Washer         Ductile Iron         41979           36         Lower Valve Washer         Ductile Iron         41979           36         Lower Valve Washer         Ductile Iron         41977           37         Hydrant Bottom         Ductile Iron         41906           40         Upper Standpipe         Ductile Iron         41906           56         Support Wheel         Ductile Iron         41983           59         O-Ring (operating nut)         Buna-N         41963           60         Nozzle Section (OR or OL)         Ductile Iron         41964           61         Bury Depth Plate         Aluminum         41964           61         Bury Depth Plate Washer         Pltd. Steel         41965           62B         Upper Standpipe Flag. (WB-67-250)         Ductile Iron         41989 1           63			1			
Standpipe			<del>                                     </del>			
Standpipe			<del>                                     </del>			
30			<del>                                     </del>			
31				41987		
Upper Valve Washer   Ductile Iron   41978		i e	<del>                                     </del>			
Ductile Iron	34	Upper Valve Washer	Ductile Iron	41978		
37	35	Main Valve Rubber	Urethane	41979		
40         Upper Standpipe         Ductile Iron         41906           56         Support Wheel         Ductile Iron         41992           57         O-Ring (operating nut)         Buna-N         41983           59         O-Ring (support wheel)         Buna-N         41963           60         Nozzle Section (OR or OL)         Ductile Iron         41904           61         Bury Depth Plate         Aluminum         41964           61         Bury Depth Plate Washer         Pltd. Steel         41965           62B         Upper Standpipe Flg. (WB-67-250)         Ductile Iron         41989 1           63         Standpipe Flange         Ductile Iron         41990           64         Flange Lock Ring         Stainless         41991           67         Coupling Sleeve (2 halves)         Gray Iron         41974           71         Upper Rod Assembly OR         Steel         41975           71         Upper Rod Assembly OL         Steel         41975           72         Lower Rod (specify length)         Steel         41981           73         O-Ring (upper valve seat)         Buna-N         41969           81         Groove Pin ½n* x ½n*         Ber. Copper         41967	36	Lower Valve Washer		41977		
56         Support Wheel         Ductile Iron         41992           57         O-Ring (operating nut)         Buna-N         41983           59         O-Ring (support wheel)         Buna-N         41963           60         Nozzle Section (OR or OL)         Ductile Iron         41904           61         Bury Depth Plate         Aluminum         41964           61         Bury Depth Plate         Aluminum         41965           62B         Upper Standpipe Flg. (WB-67-250)         Ductile Iron         41989 1           63         Standpipe Flange         Ductile Iron         41989 1           64         Flange Lock Ring         Stainless         41991           67         Coupling Sleeve (2 halves)         Gray Iron         41974           71         Upper Rod Assembly OR         Steel         41975           71         Upper Rod Assembly OL         Steel         42003           72         Lower Rod (specify length)         Steel         41981           73         O-Ring (upper valve seat)         Buna-N         41969           81         Groove Pin ½z," x ¼e"         Ber. Copper         41967           82         Upper Tube Seal         Buna-N         41986 <t< td=""><td>37</td><td>Hydrant Bottom</td><td>Ductile Iron</td><td>42005</td></t<>	37	Hydrant Bottom	Ductile Iron	42005		
57         O-Ring (operating nut)         Buna-N         41983           59         O-Ring (support wheel)         Buna-N         41963           60         Nozzle Section (OR or OL)         Ductile Iron         41904           61         Bury Depth Plate         Aluminum         41964           61         Bury Depth Plate Washer         Pltd. Steel         41965           62B         Upper Standpipe Flg. (WB-67-250)         Ductile Iron         41989 1           63         Standpipe Flange         Ductile Iron         41990           64         Flange Lock Ring         Stainless         41991           67         Coupling Sleeve (2 halves)         Gray Iron         41974           71         Upper Rod Assembly OR         Steel         41975           71         Upper Rod Assembly OL         Steel         41975           71         Upper Rod Assembly OL         Steel         41981           72         Lower Rod (specify length)         Steel         41981           73         O-Ring (upper valve seat)         Buna-N         41969           81         Groove Pin ½2" x ¼"         Ber. Copper         41967           82         Upper Tube Seal         Buna-N         41984 <td>40</td> <td>Upper Standpipe</td> <td>Ductile Iron</td> <td>41906</td>	40	Upper Standpipe	Ductile Iron	41906		
59         O-Ring (support wheel)         Buna-N         41963           60         Nozzle Section (OR or OL)         Ductile Iron         41904           61         Bury Depth Plate         Aluminum         41964           61         Bury Depth Plate         Aluminum         41965           62B         Upper Standpipe Flg. (WB-67-250)         Ductile Iron         41989           63         Standpipe Flange         Ductile Iron         41990           64         Flange Lock Ring         Stainless         41991           67         Coupling Sleeve (2 halves)         Gray Iron         41974           71         Upper Rod Assembly OR         Steel         41974           71         Upper Rod Assembly OL         Steel         41975           71         Upper Rod Assembly OL         Steel         41981           72         Lower Rod (specify length)         Steel         41981           77<	56	Support Wheel	Ductile Iron	41992		
60         Nozzle Section (OR or OL)         Ductile Iron         41904           61         Bury Depth Plate         Aluminum         41964           61         Bury Depth Plate Washer         Pltd. Steel         41965           62B         Upper Standpipe Flg. (WB-67-250)         Ductile Iron         41989 1           63         Standpipe Flange         Ductile Iron         41990           64         Flange Lock Ring         Stainless         41991           67         Coupling Sleeve (2 halves)         Gray Iron         41974           71         Upper Rod Assembly OR         Steel         41975           71         Upper Rod Assembly OL         Steel         42003           72         Lower Rod (specify length)         Steel         41981           77         O-Ring (upper valve seat)         Buna-N         41969           81         Groove Pin ½2" X ¼6"         Ber. Copper         41967           82         Upper Tube Seal         Buna-N         41984           83         Lower Tube Seal         Buna-N         41985           84         Support Gasket         Buna-N         41986           85         Support Tube         Ductile Iron         41986 1		<del>,                                    </del>	<del>                                     </del>			
61         Bury Depth Plate         Aluminum         41964           61         Bury Depth Plate Washer         Pltd. Steel         41965           62B         Upper Standpipe Flg. (WB-67-250)         Ductile Iron         41989 1           63         Standpipe Flange         Ductile Iron         41980           64         Flange Lock Ring         Stainless         41991           67         Coupling Sleeve (2 halves)         Gray Iron         41974           71         Upper Rod Assembly OR         Steel         41975           71         Upper Rod Assembly OL         Steel         42003           72         Lower Rod (specify length)         Steel         41981           77         O-Ring (upper valve seat)         Buna-N         41969           81         Groove Pin ½2 x ¼6"         Ber. Copper         41967           82         Upper Tube Seal         Buna-N         41984           83         Lower Tube Seal         Buna-N         41985           84         Support Gasket         Buna-N         41986           85         Support Tube         Ductile Iron         41986 1           86         Stop Nut OR 1"-8         Pltd. Steel         41993           87<			+			
61         Bury Depth Plate Washer         Pltd. Steel         41965           62B         Upper Standpipe Flg. (WB-67-250)         Ductile Iron         41989 1           63         Standpipe Flange         Ductile Iron         41990           64         Flange Lock Ring         Stainless         41991           67         Coupling Sleeve (2 halves)         Gray Iron         41974           71         Upper Rod Assembly OR         Steel         41975           71         Upper Rod Assembly OL         Steel         42003           72         Lower Rod (specify length)         Steel         41981           77         O-Ring (upper valve seat)         Buna-N         41969           81         Groove Pin ½2" x ¼6"         Ber. Copper         41967           82         Upper Tube Seal         Buna-N         41984           83         Lower Tube Seal         Buna-N         41985           84         Support Gasket         Buna-N         41986           85         Support Tube         Ductile Iron         41986           86         Stop Nut OL 1"-8         Pltd. Steel         41993           86         Stop Nut OR 1"-8         Pltd. Steel         41994           8			<del>                                     </del>			
62B         Upper Standpipe FIg. (WB-67-250)         Ductile Iron         41989 1           63         Standpipe Flange         Ductile Iron         41990           64         Flange Lock Ring         Stainless         41991           67         Coupling Sleeve (2 halves)         Gray Iron         41974           71         Upper Rod Assembly OR         Steel         41975           71         Upper Rod Assembly OL         Steel         42003           72         Lower Rod (specify length)         Steel         41981           77         O-Ring (upper valve seat)         Buna-N         41969           81         Groove Pin ½2" x ¾6"         Ber. Copper         41967           82         Upper Tube Seal         Buna-N         41984           83         Lower Tube Seal         Buna-N         41985           84         Support Gasket         Buna-N         41986           85         Support Tube         Ductile Iron         41986           86         Stop Nut OL 1"-8         Pltd. Steel         41993           86         Stop Nut OR 1"-8         Pltd. Steel         41994           87         Coupling Nut ½-20         Brass         41972           89						
63         Standpipe Flange         Ductile Iron         41990           64         Flange Lock Ring         Stainless         41991           67         Coupling Sleeve (2 halves)         Gray Iron         41974           71         Upper Rod Assembly OR         Steel         41975           71         Upper Rod Assembly OL         Steel         42003           72         Lower Rod (specify length)         Steel         41981           77         O-Ring (upper valve seat)         Buna-N         41969           81         Groove Pin ½2" x ¼6"         Ber. Copper         41967           82         Upper Tube Seal         Buna-N         41984           83         Lower Tube Seal         Buna-N         41985           84         Support Gasket         Buna-N         41986           85         Support Tube         Ductile Iron         41986           86         Stop Nut OL 1"-8         Pltd. Steel         41993           86         Stop Nut OR 1"-8         Pltd. Steel         41994           87         Coupling Nut ½-20         Brass         41972           88         Coupling Stud ½-20 x 2%6"         Stainless         41972           89         Nozzl						
64         Flange Lock Ring         Stainless         41991           67         Coupling Sleeve (2 halves)         Gray Iron         41974           71         Upper Rod Assembly OR         Steel         41975           71         Upper Rod Assembly OL         Steel         42003           72         Lower Rod (specify length)         Steel         41981           77         O-Ring (upper valve seat)         Buna-N         41969           81         Groove Pin ⅓₂" x ⅙"         Ber. Copper         41967           82         Upper Tube Seal         Buna-N         41984           83         Lower Tube Seal         Buna-N         41985           84         Support Gasket         Buna-N         41986           85         Support Tube         Ductile Iron         41986           86         Stop Nut OL 1"-8         Pltd. Steel         41993           86         Stop Nut OR 1"-8         Pltd. Steel         41993           87         Coupling Nut ½-20         Brass         41973           88         Coupling Stud ½-20 x 2½6"         Stainless         41972           89         Nozzle Section Bushing         Brass         41968           90         Thrust			<del>                                     </del>			
67         Coupling Sleeve (2 halves)         Gray Iron         41974           71         Upper Rod Assembly OR         Steel         41975           71         Upper Rod Assembly OL         Steel         42003           72         Lower Rod (specify length)         Steel         41981           77         O-Ring (upper valve seat)         Buna-N         41969           81         Groove Pin ⅓2" x ⅙"         Ber. Copper         41967           82         Upper Tube Seal         Buna-N         41984           83         Lower Tube Seal         Buna-N         41985           84         Support Gasket         Buna-N         41986           85         Support Tube         Ductile Iron         41986 1           86         Stop Nut OL 1"-8         Pltd. Steel         41993           86         Stop Nut OR 1"-8         Pltd. Steel         41994           87         Coupling Nut ½-20         Brass         41972           88         Coupling Stud ½-20 x 2%6"         Stainless         41972           89         Nozzle Section Bushing         Brass         41968           90         Thrust Ring (Starting Jan. 1970)         Teflon         41982           92			<del>                                     </del>			
71         Upper Rod Assembly OR         Steel         41975           71         Upper Rod Assembly OL         Steel         42003           72         Lower Rod (specify length)         Steel         41981           77         O-Ring (upper valve seat)         Buna-N         41969           81         Groove Pin ⅓₂" x ⅙"         Ber. Copper         41967           82         Upper Tube Seal         Buna-N         41984           83         Lower Tube Seal         Buna-N         41985           84         Support Gasket         Buna-N         41986           85         Support Tube         Ductile Iron         41986 1           86         Stop Nut OL 1"-8         Pltd. Steel         41993           86         Stop Nut OR 1"-8         Pltd. Steel         41994           87         Coupling Nut ½-20         Brass         41972           88         Coupling Stud ½-20 x 2%€"         Stainless         41972           89         Nozzle Section Bushing         Brass         41968           90         Thrust Ring (Starting Jan. 1970)         Teflon         41982           92         Upper Standpipe Gasket         Neoprene         41996           99         <						
71         Upper Rod Assembly OL         Steel         42003           72         Lower Rod (specify length)         Steel         41981           77         O-Ring (upper valve seat)         Buna-N         41969           81         Groove Pin ⅓2" x ⅙"         Ber. Copper         41967           82         Upper Tube Seal         Buna-N         41984           83         Lower Tube Seal         Buna-N         41985           84         Support Gasket         Buna-N         41986           85         Support Tube         Ductile Iron         41986 1           86         Stop Nut OL 1"-8         Pltd. Steel         41993           86         Stop Nut OR 1"-8         Pltd. Steel         41994           87         Coupling Nut ½-20         Brass         41973           88         Coupling Nut ½-20 x 2%e"         Stainless         41973           88         Coupling Stud ½-20 x 2%e"         Stainless         41973           89         Nozzle Section Bushing         Brass         41968           90         Thrust Ring (Starting Jan. 1970)         Teflon         41982           92         Upper Standpipe Gasket         Neoprene         41996           99						
72         Lower Rod (specify length)         Steel         41981           77         O-Ring (upper valve seat)         Buna-N         41969           81         Groove Pin ⅓₂" x ⅙₀"         Ber. Copper         41967           82         Upper Tube Seal         Buna-N         41984           83         Lower Tube Seal         Buna-N         41985           84         Support Gasket         Buna-N         41986           85         Support Tube         Ductile Iron         41986 1           86         Stop Nut OL 1"-8         Pltd. Steel         41993           86         Stop Nut OR 1"-8         Pltd. Steel         41994           87         Coupling Nut ½-20         Brass         41973           88         Coupling Stud ½-20 x 2%₀"         Stainless         41972           89         Nozzle Section Bushing         Brass         41968           90         Thrust Ring (Starting Jan. 1970)         Teflon         41982           92         Upper Standpipe Gasket         Neoprene         41996           99         Pipe Plug, ¼" NPT         Brass         42017           113         Breakable Flange         Ductile Iron         42002           117*			<del>                                     </del>			
77         O-Ring (upper valve seat)         Buna-N         41969           81         Groove Pin ⅓₂" x ⅙₀"         Ber. Copper         41967           82         Upper Tube Seal         Buna-N         41984           83         Lower Tube Seal         Buna-N         41985           84         Support Gasket         Buna-N         41986           85         Support Tube         Ductile Iron         41986 1           86         Stop Nut OL 1"-8         Pltd. Steel         41993           86         Stop Nut OR 1"-8         Pltd. Steel         41994           87         Coupling Nut ½-20         Brass         41973           88         Coupling Stud ½-20 x 2⅙°         Stainless         41972           89         Nozzle Section Bushing         Brass         41968           90         Thrust Ring (Starting Jan. 1970)         Teflon         41982           92         Upper Standpipe Gasket         Neoprene         41996           99         Pipe Plug, ¼" NPT         Brass         42017           113         Breakable Flange         Ductile Iron         42002           117*         Pumper Nozzle Retainer         Ductile Iron         42015 2           117*			<del>                                     </del>			
81         Groove Pin ½²² x ¼6"         Ber. Copper         41967           82         Upper Tube Seal         Buna-N         41984           83         Lower Tube Seal         Buna-N         41985           84         Support Gasket         Buna-N         41986           85         Support Tube         Ductile Iron         41986 I           86         Stop Nut OL 1"-8         Pltd. Steel         41993           86         Stop Nut OR 1"-8         Pltd. Steel         41994           87         Coupling Nut ½-20         Brass         41973           88         Coupling Stud ½-20 x 2½6"         Stainless         41972           89         Nozzle Section Bushing         Brass         41968           90         Thrust Ring (Starting Jan. 1970)         Teflon         41982           92         Upper Standpipe Gasket         Neoprene         41996           99         Pipe Plug, ¼" NPT         Brass         42017           113         Breakable Flange         Ductile Iron         42002           117*         Pumper Nozzle Retainer         Ductile Iron         42015 2           117*         Pumper Nozzle Retainer         Ductile Iron         42015 1           119*						
82         Upper Tube Seal         Buna-N         41984           83         Lower Tube Seal         Buna-N         41985           84         Support Gasket         Buna-N         41986           85         Support Tube         Ductile Iron         41986 I           86         Stop Nut OL 1"-8         Pltd. Steel         41993           87         Coupling Nut ½-20         Brass         41973           88         Coupling Stud ½-20 x 2¾6"         Stainless         41972           89         Nozzle Section Bushing         Brass         41968           90         Thrust Ring (Starting Jan. 1970)         Teflon         41982           92         Upper Standpipe Gasket         Neoprene         41996           99         Pipe Plug, ¼" NPT         Brass         42017           113         Breakable Flange         Ductile Iron         42002           116*         O-ring (pumper)         Buna-N         42015 2           117*         Pumper Nozzle Retainer         Ductile Iron         42015 1           118*         O-ring (hose nozzle)         Buna-N         42014 1           119*         Hose Nozzle Retainer         Ductile Iron         42014           173			+			
83         Lower Tube Seal         Buna-N         41985           84         Support Gasket         Buna-N         41986           85         Support Tube         Ductile Iron         41986 I           86         Stop Nut OL 1"-8         Pltd. Steel         41993           86         Stop Nut OR 1"-8         Pltd. Steel         41994           87         Coupling Nut ½-20         Brass         41973           88         Coupling Stud ½-20 x 2%6"         Stainless         41972           89         Nozzle Section Bushing         Brass         41968           90         Thrust Ring (Starting Jan. 1970)         Teflon         41982           92         Upper Standpipe Gasket         Neoprene         41996           99         Pipe Plug, ¼" NPT         Brass         42017           113         Breakable Flange         Ductile Iron         42002           116*         O-ring (pumper)         Buna-N         42015 2           117*         Pumper Nozzle Retainer         Ductile Iron         42015 1           118*         O-ring (hose nozzle)         Buna-N         42014 1           119*         Hose Nozzle Retainer         Ductile Iron         42014           173 </td <td></td> <td></td> <td></td> <td></td>						
84         Support Gasket         Buna-N         41986           85         Support Tube         Ductile Iron         41986 1           86         Stop Nut OL 1"-8         Pltd. Steel         41993           86         Stop Nut OR 1"-8         Pltd. Steel         41994           87         Coupling Nut ½-20         Brass         41972           88         Coupling Stud ½-20 x 2%6"         Stainless         41972           89         Nozzle Section Bushing         Brass         41968           90         Thrust Ring (Starting Jan. 1970)         Teflon         41982           92         Upper Standpipe Gasket         Neoprene         41996           99         Pipe Plug, ¼" NPT         Brass         42017           113         Breakable Flange         Ductile Iron         42002           116*         O-ring (pumper)         Buna-N         42015 2           117*         Pumper Nozzle Retainer         Ductile Iron         42015 1           118*         O-ring (hose nozzle)         Buna-N         42014 1           119*         Hose Nozzle Retainer         Ductile Iron         42014           173         Valve Seat Insert         Brozze         —           174 <td></td> <td></td> <td></td> <td></td>						
85         Support Tube         Ductile Iron         41986 1           86         Stop Nut OL 1"-8         Pltd. Steel         41993           86         Stop Nut OR 1"-8         Pltd. Steel         41994           87         Coupling Nut ½-20         Brass         41973           88         Coupling Stud ½-20 x 2%€"         Stainless         41972           89         Nozzle Section Bushing         Brass         41968           90         Thrust Ring (Starting Jan. 1970)         Teflon         41982           92         Upper Standpipe Gasket         Neoprene         41996           99         Pipe Plug, ¼" NPT         Brass         42017           113         Breakable Flange         Ductile Iron         42002           116*         O-ring (pumper)         Buna-N         42015 2           117*         Pumper Nozzle Retainer         Ductile Iron         42015 1           119*         Hose Nozzle Retainer         Ductile Iron         42014 1           173         Valve Seat Insert         Bronze         —           174         Valve Seat Insert Gasket         Nitrile         —           176         Stud, %-11 x 5.650"         Stainless         —						
86         Stop Nut OL 1"-8         Pltd. Steel         41993           86         Stop Nut OR 1"-8         Pltd. Steel         41994           87         Coupling Nut ½-20         Brass         41973           88         Coupling Stud ½-20 x 2½6"         Stainless         41972           89         Nozzle Section Bushing         Brass         41968           90         Thrust Ring (Starting Jan. 1970)         Teflon         41982           92         Upper Standpipe Gasket         Neoprene         41996           99         Pipe Plug, ¼" NPT         Brass         42017           113         Breakable Flange         Ductile Iron         42002           116*         O-ring (pumper)         Buna-N         42015 2           117*         Pumper Nozzle Retainer         Ductile Iron         42015 1           118*         O-ring (hose nozzle)         Buna-N         42014 1           119*         Hose Nozzle Retainer         Ductile Iron         42014           173         Valve Seat Insert         Bronze         —           174         Valve Seat Insert Gasket         Nitrile         —           176         Stud, %-11 x 5.650"         Stainless         —						
86         Stop Nut OR 1"-8         Pltd. Steel         41994           87         Coupling Nut ½-20         Brass         41973           88         Coupling Stud ½-20 x 2%6"         Stainless         41972           89         Nozzle Section Bushing         Brass         41968           90         Thrust Ring (Starting Jan. 1970)         Teflon         41982           92         Upper Standpipe Gasket         Neoprene         41996           99         Pipe Plug, ¼" NPT         Brass         42017           113         Breakable Flange         Ductile Iron         42002           116*         O-ring (pumper)         Buna-N         42015 2           117*         Pumper Nozzle Retainer         Ductile Iron         42015 1           118*         O-ring (hose nozzle)         Buna-N         42014 1           119*         Hose Nozzle Retainer         Ductile Iron         42014           173         Valve Seat Insert         Bronze         —           174         Valve Seat Insert Gasket         Nitrile         —           176         Stud, %-11 x 5.650"         Stainless         —		Stop Nut OL 1"-8	Pltd. Steel			
87         Coupling Nut ½-20         Brass         41973           88         Coupling Stud ½-20 x 2½6"         Stainless         41972           89         Nozzle Section Bushing         Brass         41968           90         Thrust Ring (Starting Jan. 1970)         Teflon         41982           92         Upper Standpipe Gasket         Neoprene         41996           99         Pipe Plug, ¼" NPT         Brass         42017           113         Breakable Flange         Ductile Iron         42002           116*         O-ring (pumper)         Buna-N         42015 2           117*         Pumper Nozzle Retainer         Ductile Iron         42015 1           118*         O-ring (hose nozzle)         Buna-N         42014 1           119*         Hose Nozzle Retainer         Ductile Iron         42014           173         Valve Seat Insert         Bronze         —           174         Valve Seat Insert Gasket         Nitrile         —           176         Stud, %-11 x 5.650"         Stainless         —						
88         Coupling Stud ½-20 x 2%6"         Stainless         41972           89         Nozzle Section Bushing         Brass         41968           90         Thrust Ring (Starting Jan. 1970)         Teflon         41982           92         Upper Standpipe Gasket         Neoprene         41996           99         Pipe Plug, ¼" NPT         Brass         42017           113         Breakable Flange         Ductile Iron         42002           116*         O-ring (pumper)         Buna-N         42015 2           117*         Pumper Nozzle Retainer         Ductile Iron         42015 1           118*         O-ring (hose nozzle)         Buna-N         42014 1           119*         Hose Nozzle Retainer         Ductile Iron         42014           173         Valve Seat Insert         Bronze         —           174         Valve Seat Insert Gasket         Nitrile         —           176         Stud, %-11 x 5.650"         Stainless         —						
90         Thrust Ring (Starting Jan. 1970)         Teflon         41982           92         Upper Standpipe Gasket         Neoprene         41996           99         Pipe Plug, ¼" NPT         Brass         42017           113         Breakable Flange         Ductile Iron         42002           116*         O-ring (pumper)         Buna-N         42015 2           117*         Pumper Nozzle Retainer         Ductile Iron         42015 1           118*         O-ring (hose nozzle)         Buna-N         42014 1           119*         Hose Nozzle Retainer         Ductile Iron         42014           173         Valve Seat Insert         Bronze         —           174         Valve Seat Insert Gasket         Nitrile         —           176         Stud, %-11 x 5.650"         Stainless         —	88		Stainless	41972		
92         Upper Standpipe Gasket         Neoprene         41996           99         Pipe Plug, ½" NPT         Brass         42017           113         Breakable Flange         Ductile Iron         42002           116*         O-ring (pumper)         Buna-N         42015 2           117*         Pumper Nozzle Retainer         Ductile Iron         42015 1           118*         O-ring (hose nozzle)         Buna-N         42014 1           119*         Hose Nozzle Retainer         Ductile Iron         42014           173         Valve Seat Insert         Bronze         —           174         Valve Seat Insert Gasket         Nitrile         —           176         Stud, %-11 x 5.650"         Stainless         —	89		Brass	41968		
99         Pipe Plug, ¼" NPT         Brass         42017           113         Breakable Flange         Ductile Iron         42002           116*         O-ring (pumper)         Buna-N         42015 2           117*         Pumper Nozzle Retainer         Ductile Iron         42015 1           118*         O-ring (hose nozzle)         Buna-N         42014 1           119*         Hose Nozzle Retainer         Ductile Iron         42014           173         Valve Seat Insert         Bronze         —           174         Valve Seat Insert Gasket         Nitrile         —           176         Stud, %-11 x 5.650"         Stainless         —				41982		
113         Breakable Flange         Ductile Iron         42002           116*         O-ring (pumper)         Buna-N         42015 2           117*         Pumper Nozzle Retainer         Ductile Iron         42015 1           118*         O-ring (hose nozzle)         Buna-N         42014 1           119*         Hose Nozzle Retainer         Ductile Iron         42014           173         Valve Seat Insert         Bronze         —           174         Valve Seat Insert Gasket         Nitrile         —           176         Stud, %-11 x 5.650"         Stainless         —						
116*         O-ring (pumper)         Buna-N         42015 2           117*         Pumper Nozzle Retainer         Ductile Iron         42015 1           118*         O-ring (hose nozzle)         Buna-N         42014 1           119*         Hose Nozzle Retainer         Ductile Iron         42014           173         Valve Seat Insert         Bronze         —           174         Valve Seat Insert Gasket         Nitrile         —           176         Stud, %-11 x 5.650"         Stainless         —						
117*         Pumper Nozzle Retainer         Ductile Iron         42015 1           118*         O-ring (hose nozzle)         Buna-N         42014 1           119*         Hose Nozzle Retainer         Ductile Iron         42014           173         Valve Seat Insert         Bronze         —           174         Valve Seat Insert Gasket         Nitrile         —           176         Stud, %-11 x 5.650"         Stainless         —			1			
118*         O-ring (hose nozzle)         Buna-N         42014 1           119*         Hose Nozzle Retainer         Ductile Iron         42014           173         Valve Seat Insert         Bronze         —           174         Valve Seat Insert Gasket         Nitrile         —           176         Stud, %-11 x 5.650"         Stainless         —						
119*         Hose Nozzle Retainer         Ductile Iron         42014           173         Valve Seat Insert         Bronze         —           174         Valve Seat Insert Gasket         Nitrile         —           176         Stud, %-11 x 5.650"         Stainless         —						
173         Valve Seat Insert         Bronze         —           174         Valve Seat Insert Gasket         Nitrile         —           176         Stud, %-11 x 5.650"         Stainless         —						
174Valve Seat Insert GasketNitrile—176Stud, %-11 x 5.650"Stainless—				42014		
176 Stud, %-11 x 5.650" Stainless —			<del>                                     </del>			
	_		1			
			Stainless	_		

<sup>\*</sup> Not Shown

<sup>\*\*</sup> Specify the length of the standpipe when ordering.