



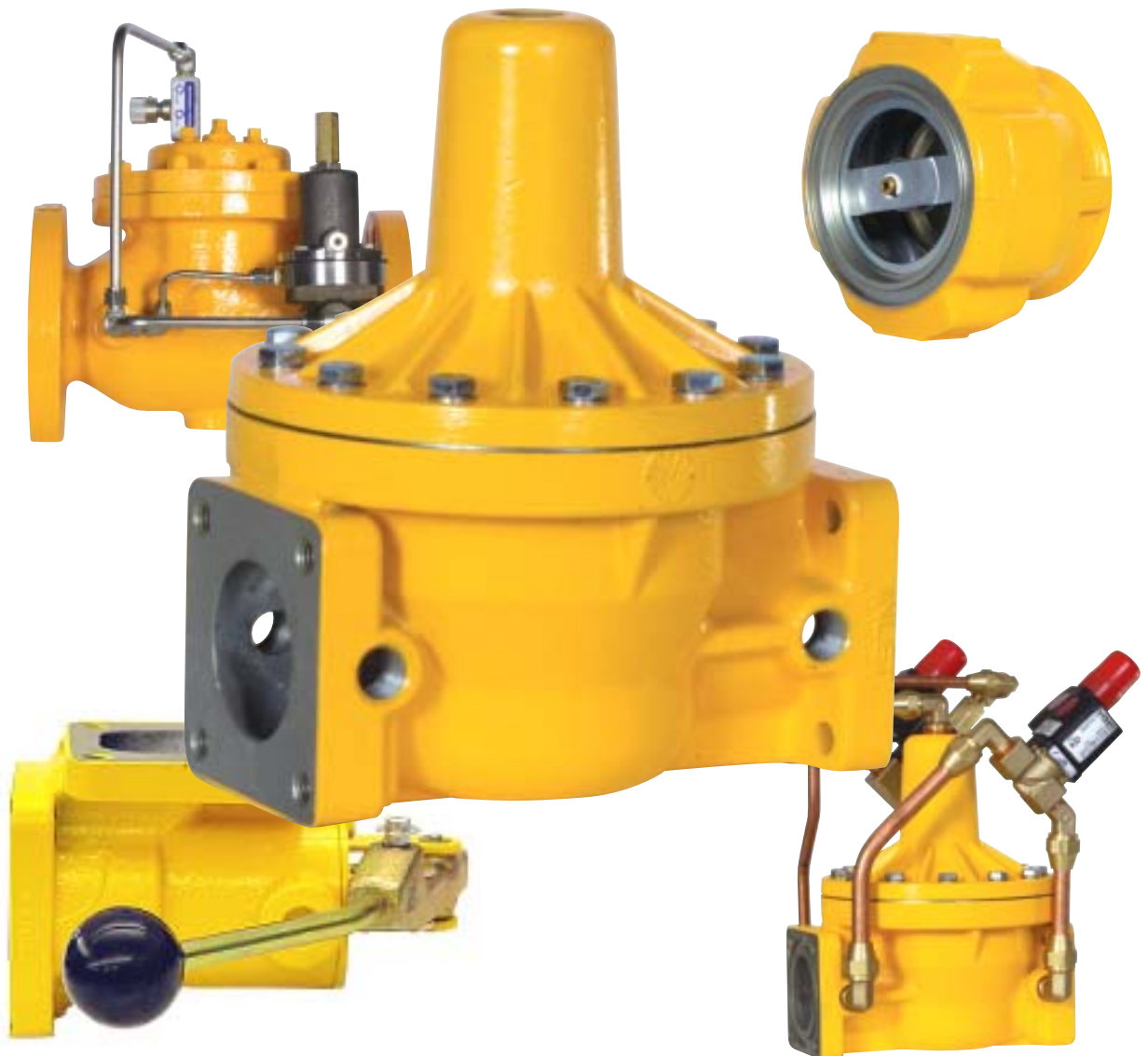
# Standard Bills of Material

## Valves (Commonly ordered models only)

**LIQUID  
CONTROLS**  
A Unit of IDEX Corporation

**IDEX**  
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Always check the website for the most current BOM.



This document is for reference only. Always use Bill of Material shipped with meter when ordering replacement parts.

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# V-7 2" Aluminum Valve

## APPLICABLE FOR VALVES MANUFACTURED AFTER MARCH, 1995

### A2621 - Aluminum / SST / Viton

Item #	Part #	Qty	Description
0200	48405	1	Manual, Valve V7
0210	49796	1	Housing Subassembly, V7 Valve Aluminum/Viton
0220	49816	1	Piston Subassembly, V7 Valve Aluminum/Viton
0337	07103	1	Link, Roller Chain Connecting Link
0354	43626	1	Seal Ring, Lower; V7 Valve Viton Overmold on 43627
0475	45361	1	Decals Labels Tags - Identification
0553	45345	1	Shaft, Valve Handle - 303 SS, V7 Valve
0564	07304	2	Retaining Ring, .250 Xtrnl "E" Reinforced
0626	06991	4	Screw, .375-16 x 1.25 Socket HD
0738	04607	4	Flat Washer, .390 ID .625 OD x .032 Thk

## APPLICABLE FOR VALVES MANUFACTURED AFTER MARCH, 1995

### A2623 - Aluminum / SST / Teflon

Item #	Part #	Qty	Description
0200	48405	1	Manual, Valve V7
0210	49802	1	Housing Subassembly, V7 Valve Aluminum/Teflon
0220	49808	1	Piston Subassembly, V7 Valve Aluminum/Teflon
0337	07103	1	Link, Roller Chain Connecting Link
0354	43674	1	Seal Ring, Lower; V7 Valve Teflon (Virgin), Solid
0424	45818	1	Gasket, Flange; Armalon 1-1/2", 2" Flange
0475	45361	1	Decals Labels Tags - Identification
0553	45345	1	Shaft, Valve Handle - 303 SS, V7 Valve
0564	07304	2	Retaining Ring, .250 Xtrnl "E" Reinforced
0626	06991	4	Screw, .375-16 x 1.25 Socket HD
0738	04607	4	Flat Washer, .390 ID .625 OD x .032 Thk

## APPLICABLE FOR VALVES MANUFACTURED AFTER MARCH, 1995

### A2631 - Aluminum / SST / Viton-High Viscosity

Item #	Part #	Qty	Description
0200	48405	1	Manual, Valve V7
0210	49796	1	Housing Subassembly, V7 Valve Aluminum/Viton
0220	49813	1	Piston Subassembly, V7 Valve Aluminum/Viton/High Visc
0337	07103	1	Link, Roller Chain Connecting Link
0354	43626	1	Seal Ring, Lower; V7 Valve Viton Overmold on 43627
0475	45361	1	Decals Labels Tags - Identification
0553	45345	1	Shaft, Valve Handle - 303 SS, V7 Valve
0564	07304	2	Retaining Ring, .250 Xtrnl "E" Reinforced
0626	06991	4	Screw, .375-16 x 1.25 Socket HD
0738	04607	4	Flat Washer, .390 ID .625 OD x .032 Thk

# V-7 2" Aluminum Valve Cont.

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## APPLICABLE FOR VALVES MANUFACTURED AFTER MARCH, 1995

### A2651 - Aluminum / SST / Viton-Class 3

Item #	Part #	Qty	Description
0210	49796	1	Housing Subassembly, V7 Valve Aluminum/Viton
0220	49814	1	Piston Subassembly, V7 Valve Aluminum/Viton/Class 3
0337	07103	1	Link, Roller Chain Connecting Link
0354	43626	1	Seal Ring, Lower; V7 Valve Viton Overmold on 43627
0475	45361	1	Decals Labels Tags - Identification
0553	45345	1	Shaft, Valve Handle - 303 SS, V7 Valve
0564	07304	2	Retaining Ring, .250 Xtrnl "E" Reinforced
0626	06991	4	Screw, .375-16 x 1.25 Socket HD
0738	04607	4	Flat Washer, .390 ID .625 OD x .032 Thk

## APPLICABLE FOR VALVES MANUFACTURED AFTER MARCH, 1995

### A2652 - Aluminum / SST / Buna - Class 15

Item #	Part #	Qty	Description
0200	48405	1	Manual, Valve V7
0210	49797	1	Housing Subassembly, V7 Valve Aluminum/Buna N
0220	49815	1	Piston Subassembly, V7 Valve Aluminum/Buna N/Class 15
0337	07103	1	Link, Roller Chain Connecting Link
0354	43608	1	Seal Ring, Lower; V7 Valve Buna Overmold on 43627
0475	45361	1	Decals Labels Tags - Identification
0553	45345	1	Shaft, Valve Handle - 303 SS, V7 Valve
0564	07304	2	Retaining Ring, .250 Xtrnl "E" Reinforced
0626	06991	4	Screw, .375-16 x 1.25 Socket HD
0738	04607	4	Flat Washer, .390 ID .625 OD x .032 Thk

## APPLICABLE FOR VALVES MANUFACTURED AFTER MARCH, 1995

### A2655 - Aluminum / SST / Viton / Teflon

Item #	Part #	Qty	Description
0200	48405	1	Manual, Valve V7
0210	49796	1	Housing Subassembly, V7 Valve Aluminum/Viton
0220	49808	1	Piston Subassembly, V7 Valve Aluminum/Teflon
0337	07103	1	Link, Roller Chain Connecting Link
0354	43626	1	Seal Ring, Lower; V7 Valve Viton Overmold on 43627
0475	45361	1	Decals Labels Tags - Identification
0553	45345	1	Shaft, Valve Handle - 303 SS, V7 Valve
0564	07304	2	Retaining Ring, .250 Xtrnl "E" Reinforced
0626	06991	4	Screw, .375-16 x 1.25 Socket HD
0738	04607	4	Flat Washer, .390 ID .625 OD x .032 Thk

### Accessories

#### Handle Assembly

Item #	Part #	Qty	Description
0205	43617	1	Curved L-R Handle
0205	43614	1	Curved R-L Handle
0205	44685	1	Straight Handle

#### Dashpot Washer

Item #	Part #	Qty	Description
0727	44691	1	Dashpot 1/16" 0-30 SSU
0727	44698	1	Dashpot 1/8" 30-150 SSU
0727	44692	1	Dashpot 2-1/8" 150-6000 SSU
0727	47722	1	Dashpot 4-1/8" 6000-20,000 SSU

#### Valve Linkage Assembly

Item #	Part #	Qty	Description
0020	A2712	1	Straight Linkage
0020	A2714	1	Offset Linkage

# V-7 2" Brass Valve

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## APPLICABLE FOR VALVES MANUFACTURED AFTER MARCH 10, 1995

### A2684 - BSPT Brass / Viton - Class 20

Item #	Part #	Qty	Description
0110	45496	1	Valve Body, 2" BSPT
0133	45483	1	Piston
0310	45099	1	Plate, Valve Plate-Orifice V7
0318	43652	1	Bracket, Lift
0337	07103	1	Link, Roller Chain Connecting Link
0354	43626	1	Seal Ring, Lower; V7 Valve Viton Overmold on 436271
0370	45484	1	Stem, Valve .375 Diameter
0380	43620	1	Spring, Dashpot Washer
0382	43678	1	Spring, Compression
0453	09275	2	O-ring, 3/8 ID x 9/16 OD x 3/32 Dia. Viton
0465	07253	1	Quad Ring, 2" ID Viton
0475	45361	1	Decals Labels Tags - Identification
0516	07102	1	Bearing, Lyliner; 3/8 ID
0532	07401	1	Nut, .250-28
0553	45345	1	Shaft, Valve Handle - 303 SS, V7 Valve
0564	07304	2	Retaining Ring, .250 Xtrnl "E" Reinforced
0573	07925	1	Retaining Ring, Spiral, 2.32 Free OD x .078 Thk
0606	07295	4	Screw, #10-24 x 5" Slotted Hex Washer head
0626	07690	4	Screw, .375-16 x 1.25 Socket HD
0724	06635	1	Flat Washer, .265 ID x .625 OD x .015 Thk
0738	04607	4	Flat Washer, .390 ID .625 OD x .032 Thk

## APPLICABLE FOR VALVES MANUFACTURED AFTER JANUARY 26, 2001

### A2690 - NPT Brass/Viton - Class 20

Item #	Part #	Qty	Description
0110	45481	1	Valve Body, 2" NPT
0133	45483	1	Piston
0310	45099	1	Plate, Valve Plate-Orifice V7
0318	43652	1	Bracket, Lift
0337	07103	1	Link, Roller Chain Connecting Link
0354	43626	1	Seal Ring, Lower; V7 Valve Viton Overmold on 436271
0370	45484	1	Stem, Valve .375 Diameter
0380	43620	1	Spring, Dashpot Washer
0382	43678	1	Spring, Compression
0453	09275	2	O-ring, 3/8 ID x 9/16 OD x 3/32 Dia. Viton
0465	07253	1	Quad Ring, 2" ID Viton
0475	45361	1	Decals Labels Tags - Identification
0516	07102	1	Bearing, Lyliner; 3/8 ID
0532	07401	1	Nut, .250-28
0553	45345	1	Shaft, Valve Handle - 303 SS, V7 Valve
0564	07304	2	Retaining Ring, .250 Xtrnl "E" Reinforced
0573	07925	1	Retaining Ring, Spiral 2.32 Free OD X .078 Thk
0606	07295	4	Screw, #10-24 x .5" Slotted Hex Washer Head
0626	07690	4	Screw, .375-16 x 1.25 Socket HD
0724	06635	1	Flat Washer, .265 ID x .625 OD x .015 Thk
0738	04607	4	Flat Washer, .390 ID x .625 OD x .032 Thk

# V-7 2" Brass Valve Cont.

APPLICABLE FOR VALVES MANUFACTURED AFTER MARCH 10, 1995

## A2693 - NPT Brass / Teflon - Class 20

Item #	Part #	Qty	Description
0110	45455	1	Valve Body, 2" NPT
0133	45454	1	Piston
0310	45099	1	Plate, Valve, Plate-Orifice V7
0318	43652	1	Bracket, Lift
0337	07103	1	Link, Roller Chain Connecting Link
0354	43674	1	Seal Ring, Lower; V7 Valve Teflon (Virgin), Solid
0370	45484	1	Stem, Valve .375 Diameter
0380	43620	1	Spring, Dashpot Washer
0382	43678	1	Spring, Compression; 1.25 OD x 3.5 Long
0388	44696	1	Spring, Compression; .72 OD x 19/32 Long
0424	45818	1	Gasket, Flange
0446	06943	1	Seal, V-ring Set; Teflon
0475	45361	1	Decals Labels Tags - Identification
0516	07102	1	Bearing, Lyliner; 3/8 ID
0532	07401	1	Nut, .250-28
0553	45345	1	Shaft, Valve Handle - 303 SS, V7 Valve
0564	07304	2	Retaining Ring, .250 Xtrnl "E" Reinforced
0572	06044	1	Retaining ring, Spiral, 1.909 Free ID x .049 Thk
0573	07925	1	Retaining Ring, Spiral, 2.32 Free OD x .078 Thk
0606	07295	4	Screw, #10-24 x 5" Slotted Hex Washer head
0626	07497	4	Screw, .375-16 x 1.00 Socket HD
0724	06635	1	Flat Washer, .265 ID x .625 OD x .015 Thk
0738	04607	4	Flat Washer, .390 ID .625 OD x .032 Thk
0780	43672	1	Flat Washer, .406 ID x .745 OD x .032 Thk

## Accessories

### Handle Assembly

Item #	Part #	Qty	Description
0205	43617	1	Curved L-R Handle
0205	43614	1	Curved R-L Handle
0205	44685	1	Straight Handle

### Dashpot Washer

Item #	Part #	Qty	Description
0727	45485	1	Dashpot 1/16" 0-30 SSU
0727	45486	1	Dashpot 1/8" 30-150 SSU

### Valve Linkage Assembly

Item #	Part #	Qty	Description
0020	A2712	1	Straight Linkage
0020	A2714	1	Offset Linkage

# V-7 2" Cast Iron Valve

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## APPLICABLE FOR VALVES MANUFACTURED AFTER JANUARY 26, 2001

### A2670 - CI / SST / Viton - Class 7

Item #	Part #	Qty	Description
0110	44682	1	Valve Body, 2" Cast
0133	44684	1	Piston
0318	43652	1	Bracket, Lift
0337	07103	1	Link, Roller Chain Connecting Link
0354	43626	1	Seal Ring, Lower; V7 Valve Viton Overmold on 436271
0370	43612	1	Shaft, Valve .375 Diameter
0380	43620	1	Spring, Dashpot Washer
0382	43678	1	Spring, Compression
0453	09275	2	O-ring, 3/8 ID x 9/16 OD x 3/32 Dia. Viton
0465	07253	1	Quad Ring, 2" ID Viton
0475	45361	1	Decals Labels Tags - Identification
0512	07464	1	Bearing, Sleeve; Lyliner; 3/8 ID
0516	07102	1	Bearing, Lyliner; 3/8 ID
0532	06050	1	Nut, .250-28
0553	45345	1	Shaft, Valve Handle - 303 SS, V7 Valve
0564	07304	2	Retaining Ring, .250 Xtrnl "E" Reinforced
0606	07295	4	Screw, #10-24 x 5" Slotted Hex Washer Head
0626	07319	4	Screw, .375-16 x 2 Socket HD
0724	06635	1	Flat Washer, .265 ID x .625 OD x .015 Thk
0738	04607	4	Flat Washer, .390 ID .625 OD x .032 Thk

## APPLICABLE FOR VALVES MANUFACTURED AFTER JANUARY 26, 2001

### A2671 - CI / Viton / Teflon - Class 7

Item #	Part #	Qty	Description
0110	44682	1	Valve Body, 2" Cast
0133	44690	1	Piston
0318	43652	1	Bracket, Lift
0337	07103	1	Link, Roller Chain Connecting Link
0354	43626	1	Seal Ring, Lower; V7 Valve Viton Overmold on 436271
0370	43612	1	Shaft, Valve .375 Diameter
0380	43620	1	Spring, Dashpot Washer
0382	43678	1	Spring, Compression
0453	09275	2	O-ring, 3/8 ID x 9/16 OD x 3/32 Dia. Viton
0465	07832	1	Seal, Omniseal; 1.977 ID, Teflon, 1/8" X-Section
0475	45361	1	Decals Labels Tags - Identification
0512	07464	1	Bearing, Sleeve; Lyliner; 3/8 ID
0516	07102	1	Bearing, Lyliner; 3/8 ID
0532	06050	1	Nut, .250-28
0553	45345	1	Shaft, Valve Handle - 303 SS, V7 Valve
0564	07304	2	Retaining Ring, .250 Xtrnl "E" Reinforced
0572	06044	1	Retaining Ring, Spiral, 1.909 Free ID x .049 Thk
0606	07295	4	Screw, #10-24 x .5" Slotted Hex Washer Head
0626	07319	4	Screw, .375-16 x 2 Socket HD
0724	06635	1	Flat Washer, .265 ID x .625 OD x .015 Thk
0738	04607	4	Flat Washer, .390 ID .625 OD x .032 Thk



# V-7 2" Cast Iron Valve Cont.

APPLICABLE FOR VALVES MANUFACTURED AFTER MARCH 10, 1995

## A2672 - CI / Teflon - Class 7

Item #	Part #	Qty	Description
0110	44689	1	Valve Body, 2" Cast
0133	44690	1	Piston
0318	43652	1	Bracket, Lift
0337	07103	1	Link, Roller Chain Connecting Link
0354	43674	1	Seal Ring, Lower; V7 Valve Teflon (Virgin) Solid
0424	45818	1	Gasket, Flange
0446	06943	1	Seal, V-ring Set; Teflon
0465	07832	1	Seal, Omniseal; 1.977 ID, Teflon, 1/8" X-Section
0475	45361	1	Decals Labels Tags - Identification
0512	07464	1	Bearing, Sleeve; Lyliner; 3/8 ID
0516	07102	1	Bearing, Lyliner; 3/8 ID
0532	06050	1	Nut, .250-28
0553	45345	1	Shaft, Valve Handle - 303 SS, V7 Valve
0564	07304	2	Retaining Ring, .250 Xtrnl "E" Reinforced
0606	07295	4	Screw, #10-24 x 5" Slotted Hex Washer Head
0626	07319	4	Screw, .375 - 16 x 2.00 Socket HD
0724	06635	1	Flat Washer, .265 ID x .625 OD x .015 Thk
0738	04607	4	Flat Washer, .390 ID .625 OD/ .032 Thk
0780	43672	1	Flat Washer, .406 ID x .745 OD x .032 Thk

## Accessories

### Handle Assembly

Item #	Part #	Qty	Description
0205	43617	1	Curved L-R Handle
0205	43614	1	Curved R-L Handle
0205	44685	1	Straight Handle

### Dashpot Washer

Item #	Part #	Qty	Description
0727	44691	1	Dashpot 1/16" 0-30 SSU
0727	44698	1	Dashpot 1/8" 30-150 SSU
0727	44692	1	Dashpot 2-1/8" 150-6000 SSU
0727	47722	1	Dashpot 4-1/8" 6000-20,000 SSU

### Valve Linkage Assembly

Item #	Part #	Qty	Description
0020	A2712	1	Straight Linkage
0020	A2714	1	Offset Linkage

# V-7 2" Stainless Steel Valve

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## APPLICABLE FOR VALVES MANUFACTURED AFTER MARCH 10, 1995

### A2683 - SST / Viton - Class 8

Item #	Part #	Qty	Description
0133	45331	1	Piston
0208	45326	1	Valve Body Assembly
0318	45339	1	Bracket, Lift
0337	45342	1	Link, Roller Chain Connecting Link
0354	43626	1	Seal Ring, Lower; V7 Valve Viton Overmold on 436271
0370	43612	1	Shaft, Valve .375 Diameter
0380	43620	1	Spring, Dashpot Washer
0381	45343	2	Spacer, Handle
0382	43678	1	Spring, Compression
0383	45340	1	Bearing, Rulon
0388	45327	1	Seal Cartridge
0453	06284	2	O-ring, 3/8 ID x 9/16 OD x 3/32 Dia. Viton
0455	07565	1	O-ring, 9/16 ID x 3/4 OD x 3/32 Dia. Viton
0465	07253	1	Quad Ring, 2" ID Viton
0475	45361	1	Decals Labels Tags - Identification
0532	06050	1	Nut, .250-28
0550	45346	2	Shaft, Valve Link
0553	45345	1	Shaft, Valve Handle - 303 SS, V7 Valve
0561	07524	4	Retaining Ring, .218 Xtrnl "E" reinforced
0564	07523	2	Retaining Ring, .250 Xtrnl "E" Reinforced
0606	07521	4	Screw, #10-24 x 5" Hex Head
0626	07497	4	Screw, .375-16 x 1.00 Socket HD
0724	06635	1	Flat Washer, .265 ID x .625 OD x .015 Thk
0738	06166	4	Flat Washer, .390 ID .625 OD x .062 Thk
0780	45344	2	Flat Washer, 0406 ID x .75 OD x .015 Thk
0781	07121	4	Lock Washer, #10 Split

## APPLICABLE FOR VALVES MANUFACTURED AFTER MARCH 10, 1995

### A2687 - SST / Teflon - Class 8

Item #	Part #	Qty	Description
0133	45329	1	Piston
0208	45326	1	Valve Body Assembly
0318	45339	1	Bracket, Lift
0337	45342	1	Link, Roller Chain Connecting Link
0354	43674	1	Seal Ring, Lower; V7 Valve Teflon (Virgin), Solid
0370	43612	1	Shaft, Valve .375 Diameter
0380	43620	1	Spring, Dashpot Washer
0381	45343	2	Spacer, Handle
0382	43678	1	Spring, Compression; 1.25 OD x 3.5 Long
0383	45340	1	Bearing, Rulon
0388	44696	1	Spring, Compression; .72 OD x 19/32 Long
0424	45818	1	Gasket, Flange
0446	06943	1	Seal, V-ring Set; Teflon
0465	07832	1	Seal, Omniseal; 1.977 ID, Teflon, 1/8" X-Section
0475	45361	1	Decals Labels Tags - Identification
0532	06050	1	Nut, .250-28
0550	45346	2	Shaft, Valve Link

## V-7 2" Stainless Steel Valve Cont.

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0553	45345	1	Shaft, Valve Handle - 303 SS, V7 Valve
0561	07524	4	Retaining Ring, .218 Xtrnl "E" Reinforced
0564	07523	2	Retaining Ring, .250 Xtrnl "E" Reinforced
0572	06044	1	Retaining Ring, Spiral, 1.909 Free ID x .049 Thk
0606	07521	4	Screw, #10 x 5" Hex head
0626	07497	4	Screw, .375-16 x 1.00 Socket HD
0724	06635	1	Flat Washer, .265 ID x .625 OD x .015 Thk
0738	06166	4	Flat Washer, .390 ID .625 OD x .062 Thk
0780	45344	2	Flat Washer, .406 ID x .75 OD x .015 Thk
0781	07121	4	Lock Washer, #10 Split

### Accessories

#### Handle Assembly

Item #	Part #	Qty	Description
0205	45337	1	Curved L-R Handle
0205	45336	1	Curved R-L Handle
0205	45335	1	Straight Handle

#### Dashpot Washer

Item #	Part #	Qty	Description
0727	44691	1	Dashpot 1/16" 0-30 SSU
0727	44698	1	Dashpot 1/8" 30-150 SSU
0727	44692	1	Dashpot 2-1/8" 150-6000 SSU
0727	47722	1	Dashpot 4-1/8" 6000-20,000 SSU

#### Valve Linkage Assembly

Item #	Part #	Qty	Description
0020	A2725	1	Straight Linkage
0020	A2726	1	Offset Linkage

# V-15 3" Aluminum Valve

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APPLICABLE FOR VALVES MANUFACTURED AFTER MARCH 26, 1999

## A3610 & A3610A - Aluminum / STL / Viton

Item #	Part #	Qty	Description
0110	40731	1	Housing - V-15 HSG V15 Body
0124	43985	1	Cap, Valve V-15 AL/TF V-15
0133	43529	1	Cup, V-15
0138	43953	1	Guide, V-15 New style
0140	09050	2	Bearing, M-Lnr .500 ID, M-Liner Sleeve Brg 1/2
0260	47889	2	Guide, Inner-Bearing
0270	47891	2	Case, Shaft Seal - V-15 Valve Saft
0337	43534	2	Link - V-15
0338	43533	1	Link Arm - Link V-15
0354	40736	1	Ring, Valve Seal
0368	40746	1	Shaft, Valve - V-15
0370	40737	1	Shaft, Valve Guide
0382	40735	1	Spring, Compression Spring Valve
0412	40738	1	Gasket, Cap - SL-GV V-15 Rhopac
0424	40871	1	Gasket, Flange
0450	09046	2	O-Ring, .62 ID Viton, .88 OD X .12 Dia Wall
0455	09311	2	O-Ring, .484 ID Brn Viton, .762 OD X .139 Dia Wall
0465	40742	1	Ring, Valve Upper-Seal
0541	04005	4	Pin, Cotter .062 X .500
0543	06822	1	Pin, Groove; Tapered, 3/16" X 1.00 LG, 303 SS
0559	04001	1	Retaining Ring, .625 Xtrnl "E"
0564	04003	2	Retaining Ring, .500 Xtrnl "E"
0610	06057	2	Screw, .500-13 X 1.50 Hex Head
0611	00244	2	Screw, .500-13 X 2.25 Hex Head Cap
0615	06819	2	Screw, #10-24 X .375 Allen Socket Flat Head
0626	06057	4	Screw, .500-13 X 1.50 Hex Head
0718	04685	8	Flat Washer, .531 ID 1.06 OD X .095 Thk
0727	40944	1	Washer, Dashpot, Wash Plain
0741	06818	4	Flat Washer, .219 ID .50 OD, .06 Thk, SS
0800	48854	1	Valve Manual

## V-15 3" Aluminum Valve Cont.

APPLICABLE FOR VALVES MANUFACTURED AFTER MARCH, 1999

### A3611 & A3611A - Aluminum / STL / Viton-High Viscosity

Item #	Part #	Qty	Description
0110	40731	1	Housing - V-15 HSG V15 Body
0124	43985	1	Cap, Valve V-15, AL/TF V-15
0133	43998	1	Cup, High Viscosity, V-15
0138	43953	1	Guide, V-15 New style
0140	09050	2	Bearing, M-Lnr .500 ID, M-Liner Sleeve Brg 1/2
0260	47889	2	Guide, Inner-Bearing
0270	47891	2	Case, Shaft Seal - V-15 Valve Saft
0337	43534	2	Link - V-15
0338	43533	1	Link Arm - Link V-15
0354	40736	1	Ring, Valve Seal
0368	40746	1	Shaft, Valve - V-15
0370	40737	1	Shaft, Valve Guide
0382	40735	1	Spring, Compression Spring Valve
0412	46070	1	Gasket, Cap - V-15 CL 3
0424	46069	1	Gasket, Flange - M-15 CL 3
0450	09046	2	O-Ring, .62 ID Viton, .88 OD X .12 Dia Wall
0455	09311	2	O-Ring, .484 ID Brn Viton, .762 OD X .139 Dia Wall
0465	40742	1	Ring, Valve Upper-Seal
0541	04005	4	Pin, Cotter .062 X .500
0543	06822	1	Pin, Groove; Tapered, 3/16" X 1.00 LG, 303 SS
0564	04003	2	Retaining Ring, .500 Xtrnl "E"
0610	06057	2	Screw, .500-13 X 1.50 Hex Head
0611	00244	2	Screw, .500-13 X 2.25 Hex Head Cap
0615	06819	2	Screw, #10-24 X .375 Allen Socket Flat Head
0626	06057	4	Screw, .500-13 X 1.50 Hex Head
0718	04685	8	Flat Washer, .531 ID 1.06 OD X .095 Thk
0741	06818	4	Flat Washer, .219 ID .50 OD, .06 Thk, SS
0800	48854	1	Valve Manual

# V-15 3" Aluminum Valve Cont.

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APPLICABLE FOR VALVES MANUFACTURED AFTER JULY 9, 1999

## A3612 & A3612A Aluminum / STL / Teflon

Item #	Part #	Qty	Description
0110	40731	1	Housing - V-15 HSG V15 Body
0124	43985	1	Cap, Valve V-15, AL/TF V-15
0133	43529	1	Cup, V-15 HDCT
0138	43978	1	Guide, V-15 New style TF
0140	09050	2	Bearing, M-Lnr .500 ID, M-Liner Sleeve Brg 1/2
0260	47889	2	Guide, Inner-Bearing
0270	47891	2	Case, Shaft Seal - V-15 Valve Saft
0337	43534	2	Link - V-15
0338	43533	1	Link Arm - Link V-15
0354	43982	1	Ring, Valve Seal
0368	40746	1	Shaft, Valve - V-15
0370	40737	1	Shaft, Valve Guide
0382	40735	1	Spring, Compression Spring Valve
0412	40738	1	Gasket, Cap - SL-GV V-15 RHOPAC
0424	40871	1	Gasket, Flange - Gasket Meter
0450	09047	2	O-Ring, .62 ID Viton, .88 OD X .12 Dia Wall
0455	09045	2	O-Ring, .50 ID Teflon w/Viton Core .12 Sqr Wall
0465	07209	1	O-Ring, 2.75 ID Teflon 3.0 OD x .12 Dia Wall
0541	04005	4	Pin, Cotter .062 X .500
0543	06822	1	Pin, Groove; Tapered, 3/16" X 1.00 LG, 303 SS
0559	04001	1	Retaining Ring, .625 Xtrnl "E"
0564	04003	2	Retaining Ring, .500 Xtrnl "E"
0572	07207	1	Ring, Lock 2.572 ID Shaft Dia 2.688, .049 T
0610	06057	2	Screw, .500-13 X 1.50 Hex Head
0611	00244	2	Screw, .500-13 X 2.25 Hex Head Cap
0615	06819	2	Screw, #10-24 X .375 Allen Socket Flat Head
0626	06057	4	Screw, .500-13 X 1.50 Hex Head
0718	04685	8	Flat Washer, .531 ID 1.06 OD X .095 Thk
0727	43521	1	Washer, Dashpot, Washer Plain
0741	06818	4	Flat Washer, .219 ID .50 OD, .06 Thk, SS
0800	48854	1	Valve Manual

# V-15 3" Aluminum Valve Cont.

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APPLICABLE FOR VALVES MANUFACTURED AFTER JULY 9, 1999

## A3620 & A3620A - Aluminum / SST / Viton

Item #	Part #	Qty	Description
0110	40731	1	Housing - V-15 HSG V15 Body
0124	43985	1	Cap, Valve V-15, AL/TF V-15
0133	43529	1	Cup, V-15 HDCT
0138	43953	1	Guide, V-15 New style
0140	09050	2	Bearing, M-Lnr .500 ID, M-Liner Sleeve Brg 1/2
0260	47889	2	Guide, Inner-Bearing
0270	47891	2	Case, Shaft Seal - V-15 Valve Saft
0337	43534	2	Link - V-15
0338	43533	1	Link Arm - Link V-15
0354	40736	1	Ring, Valve Seal
0368	40746	1	Shaft, Valve - V-15
0370	40737	1	Shaft, Valve Guide
0382	43535	1	Spring, Compression, Valve Spring 302 SS
0412	46070	1	Gasket, Cap - V-15 CL 3
0424	46069	1	Gasket, Flange - M-15 CL 3
0450	09046	2	O-Ring, .62 ID Viton, .88 OD X .12 Dia Wall
0455	09311	2	O-Ring, .484 ID Brn Viton .762 OD X .139 Dia Wall
0465	40742	1	Ring, Valve Upper-Seal, Seal-Ring
0541	06936	4	Pin, Cotter .062 X .500, 18-8 SS
0543	06822	1	Pin, Groove; Tapered, 3/16" X 1.00 LG, 303 SS
0559	06820	1	Retaining Ring, .625 Xtrnl Basic
0564	06821	2	Retaining Ring, .500 Xtrnl "E"
0610	06057	2	Screw, .500-13 X 1.50 Hex Head
0611	00244	2	Screw, .500-13 X 2.25 Hex Head Cap
0615	06819	2	Screw, #10-24 X .375 Allen Socket Flat Head
0626	06057	4	Screw, .500-13 X 1.50 Hex Head
0718	04685	8	Flat Washer, .531 ID 1.06 OD X .095 Thk
0727	43521	1	Washer, Dashpot, Washer Plain
0741	06818	4	Flat Washer, .219 ID .50 OD, .06 Thk, SS
0800	48854	1	Valve Manual

# V-15 3" Aluminum Valve Cont.

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APPLICABLE FOR VALVES MANUFACTURED AFTER JULY 9, 1999

## A3622 & A3622A - Aluminum / SST / Teflon

Item #	Part #	Qty	Description
0110	40731	1	Housing - V-15 HSG V15 Body
0124	43985	1	Cap, Valve V-15, AL/TF V-15
0133	43529	1	Cup, V-15 HDCT
0138	43978	1	Guide, V-15 New style TF
0140	09050	2	Bearing, M-Lnr .500 ID, M-Liner Sleeve Brg 1/2
0260	47889	2	Guide, Inner-Bearing
0270	47891	2	Case, Shaft Seal - V-15 Valve Saft
0337	43534	2	Link - V-15
0338	43533	1	Link Arm - Link V-15
0354	43982	1	Ring, Seal V15
0368	40746	1	Shaft, Valve - V-15
0370	40737	1	Shaft, Valve Guide
0382	43535	1	Spring, Compression, Valve Spring 302 SS
0412	40738	1	Gasket, Cap - SI-GV V-15 RHOPAC
0424	40871	1	Gasket, Flange - Gasket Meter
0450	09047	2	O-Ring, .62 ID Teflon, .88 OD X .12 Dia Wall
0455	09045	2	O-Ring, .50 ID Teflon w/Viton Core .12 Sqr Wall
0465	07209	1	O-Ring, 2.75 ID Teflon 3.00 OD X .12 Dia Wall
0541	06936	4	Pin, Cotter .062 X .500, 18-8 SS
0543	06822	1	Pin, Groove; Tapered, 3/16" X 1.00 LG, 303 SS
0559	06820	1	Retaining Ring, .625 Xtrnl Basic
0564	06821	2	Retaining Ring, .500 Xtrnl "E"
0572	07207	1	Ring, Lock 2.572 ID Shaft Dia 2.688, .049 T
0610	06057	2	Screw, .500-13 X 1.50 Hex Head
0611	00244	2	Screw, .500-13 X 2.25 Hex Head Cap
0615	06819	2	Screw, #10-24 X .375 Allen Socket Flat Head
0626	06057	4	Screw, .500-13 X 1.50 Hex Head
0718	04685	8	Flat Washer, .531 ID 1.06 OD X .095 Thk
0727	43521	1	Washer, Dashpot, Washer Plain
0741	06818	4	Flat Washer, .219 ID .50 OD, .06 Thk, SS
0800	48854	1	Valve Manual



## V-15 3" Aluminum Valve Cont.

### Accessories

#### A3710 - Linkage Assembly (Applicable for valves manufactured after August 1, 1993)

Item #	Part #	Qty	Description
0127	40984	1	Handle Assembly, Valve V-15 & V30
0337	40827	1	Link, Operating Link V15 Operating
0376	40963	2	Sleeve, Preset, .625 OD X .095 W X .50 L
0514	42993	1	Extension, Ball Joint .375-24
0515	04401	1	Ball Joint, Snap-off, .38-24, Shank LG .50
0534	06075	2	Nut, .375-16 Selflocking Hex Light
0535	06050	1	Nut, .250-28 Selflocking ESNA #79NTE-048
0615	06645	1	Screw, .250-28 X .500 Sltted Pan HD
0620	06054	1	Lock Washer, .375 Spring

#### A3730 - Linkage Assembly - Counter Extension (Applicable for valves manufactured after August 1, 1993)

Item #	Part #	Qty	Description
0001	04094	1	Knob, Ball 1.375 Dia .375-16 Thd
0002	04393	2	Retaining Ring, .375 Xtrnl "E"
0003	04401	1	Ball Joint, Snap-off .38-24 Shank Lg .50
0004	04638	1	Ball Joint, .25-28 X .31, "SO"-107
0005	06054	1	Lock Washer, .375 Spring
0006	06075	4	Nut, .375-16 Selflocking Hex, Light
0007	06081	1	Lock Washer, .25 Spring, Heavy
0008	09079	4	Screw, #10-24 X .625 Hex Head, SEMS, SS
0010	06948	1	Pin, Groove .125 X .750
0012	07304	2	Retaining Ring, .250 Xtrnl "E" Reinforced
0013	40948	2	Pivot, Shperical, .75 Spher Dia
0014	40963	4	Sleeve, Preset, .625 OD X .095 W X .50 L
0015	40986	1	Link Assembly, Stub, V15
0018	43087	1	Handle, Extended Link
0019	43090	1	Link, Preset
0020	43093	1	Link, Vertical, MS30
0021	43652	1	Bracket, Lift, V7
0022	44688	1	Extension, Handle .375 Dia Stk X 5.187 L
0024	45345	1	Shaft, Valve handle, 303 SS, V7 Valve

# V-30 4" Aluminum Valve

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APPLICABLE FOR VALVES MANUFACTURED AFTER MARCH 26, 1999

## A4610 & A4610A - Aluminum / STL / Viton

Item #	Part #	Qty	Description
0110	40931	1	Housing, Check Valve, Hsg-C/Vlv V30 Body
0124	43976	1	Cap, Valve V-30 TF V-30
0133	43528	1	Cup, V-30
0138	43956	1	Guide, V-30
0140	09050	2	Bearing, M-Lnr .500 ID, M-Liner Sleeve Brg 1/2
0260	47889	2	Guide, Inner-Bearing
0270	47892	2	Case, Shaft Seal - V-30 Valve Saft
0337	43525	2	Link - V-30
0338	43524	1	Link Arm - Link V-30
0354	46239	1	Seal Ring, Bonded Viton, V30 Valve
0368	40987	1	Shaft, Valve - V-30
0370	40967	1	Shaft, Valve Guide, .437 OD X 5.032 Long
0382	40942	1	Spring, Compression Spring Valve 1.25 OD
0412	40704	2	Gasket, Flange M30 Nitrile, Type 205, 1/16"
0450	09048	2	O-Ring, .75 ID Viton, 1.00 OD X .12 Dia Wall
0455	09311	2	O-Ring, .484 ID Brn Vitan, .762 OD X .139 Dia Wall
0465	40969	1	Ring, Upper-Seal, 3.734 ID, Valve Seals
0541	04005	4	Pin, Cotter .062 X .500
0543	06822	1	Pin, Groove; Tapered, 3/16" X 1.00 LG, 303 SS
0559	04001	1	Retaining Ring, .625 Xtrnl "E"
0564	04003	2	Retaining Ring, .500 Xtrnl "E"
0610	04762	6	Screw, .625-11 X 1.75 Hex Head Cap
0611	06466	2	Screw, .625-11 X 2.50 Hex Head Cap, Grade 5
0615	06819	2	Screw, #10-24 X .375 Allen Socket Flat Head
0718	04764	8	Flat Washer, .656 ID 1.312 OD X .095 Thk
0727	40944	1	Washer, Dashpot, Wash Plain
0741	06818	4	Flat Washer, .219 ID .50 OD, .06 Thk, SS
0800	48854	1	Valve Manual

## V-30 4" Aluminum Valve Cont.

APPLICABLE FOR VALVES MANUFACTURED AFTER MARCH 26, 1999

### A4611 - Aluminum / STL / Viton-High Viscosity

Item #	Part #	Qty	Description
0110	40931	1	Housing, Check Valve, Hsg-C/Vlv V30 Body
0124	43976	1	Cap, Valve V-30, TF V-30
0133	43734	1	Cup, High Viscosity, V-30
0138	43956	1	Guide, V-30
0140	09050	2	Bearing, M-Lnr .500 ID, M-Liner Sleeve Brg 1/2
0260	47889	2	Guide, Inner-Bearing
0270	47892	2	Case, Shaft Seal - V-30 Valve Saft
0337	43525	2	Link - V-30
0338	43524	1	Link Arm - Link V-30
0354	46239	1	Seal Ring Bonded Viton, V30 Valve
0368	40987	1	Shaft, Valve - V-30
0370	40967	1	Shaft, Valve Guide, .432 OD X 5.032 Long
0382	43526	1	Spring, Compression Valve Spring, 302 SS
0412	46072	1	Gasket, Flange - M-30-3
0450	09048	2	O-Ring, .75 ID Viton, 1.00 OD X .12 Dia Wall
0455	09311	2	O-Ring, .484 ID Brn Vitan, .762 OD X .139 Dia Wall
0465	40969	1	Ring, Upper-Seal 3.734 ID, Valve Seal
0541	06936	4	Pin, Cotter .062 X .500, 18-8 SS
0543	06822	1	Pin, Groove; Tapered, 3/16" X 1.00 LG, 303 SS
0564	06821	2	Retaining Ring, .500 Xtrnl "E"
0610	04762	2	Screw, .625-11 X 1.75 Hex Head Cap
0611	06466	2	Screw, .625-11 X 2.50 Hex Head Cap Grade 5
0615	06819	2	Screw, #10-24 X .375 Allen Socket Flat Head
0718	04764	8	Flat Washer, .656 ID 1.312 OD .095 Thk
0741	06818	4	Flat Washer, .219 ID .50 OD, .06 Thk, SS
0800	48854	1	Valve Manual

# V-30 4" Aluminum Valve Cont.

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APPLICABLE FOR VALVES MANUFACTURED AFTER JANUARY 26, 2001

## A4612 & A4612A - Aluminum / STL / Teflon

Item #	Part #	Qty	Description
0110	40931	1	Housing Check Valve, Hsg-C/Vlv V-30 Body
0124	43967	1	Cap, Valve V-30, TF V-30
0133	43529	1	Cup, V-30
0138	43979	1	Guide, V-30 TF
0140	09050	2	Bearing, M-Lnr .500 ID, M-Liner Sleeve Brg 1/2
0260	47889	2	Guide, Inner-Bearing
0270	47892	2	Case, Shaft Seal - V-30 Valve Saft
0337	43525	2	Link - V-30
0338	43524	1	Link Arm - Link V-30
0354	43981	1	Seal, O-Ring Teflon, SL-O/R TF V-30 Valve
0368	40987	1	Shaft, Valve - V-30
0370	40967	1	Shaft, Valve Guide, .437 OD X 5.032 Long
0382	40942	1	Spring, Compression Spring Valve 1.25 OD
0412	40704	2	Gasket, Flange, M30 NITRILE, Type 205, 1/16"
0450	09049	2	O-Ring, .75 ID Viton, 1.00 OD X .12 Dia Wall
0455	09045	2	O-Ring, .50 ID Teflon w/Viton Core .12 Sqr Wall
0465	07202	1	O-Ring, 3.75 ID Teflon 4.00 OD x .12 Dia Wall
0541	04005	4	Pin, Cotter .062 X .500
0543	06822	1	Pin, Groove; Tapered, 3/16" X 1.00 LG, 303 SS
0559	04001	1	Retaining Ring, .625 Xtrnl "E"
0564	04003	2	Retaining Ring, .500 Xtrnl "E"
0572	07203	1	Ring, Lock 3.543 ID Shaft Dia 3.687 X .06 T
0610	04762	6	Screw, .625-11 X 1.75 Hex Head Cap
0611	06466	2	Screw, .625-11 X 2.50 Hex Head Cap Grade 5
0615	06819	2	Screw, #10-24 X .375 Allen Socket Flat Head
0718	04764	8	Flat Washer, .656 ID 1.312 OD X .095 Thk
0727	40944	1	Washer, Dashpot, Washer Plain
0741	06818	4	Flat Washer, .219 ID .50 OD, .06 Thk, SS
0800	48854	1	Valve Manual

# V-30 4" Aluminum Valve Cont.

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APPLICABLE FOR VALVES MANUFACTURED AFTER JANUARY 26, 2001

## A4623 & A4623A - Aluminum / SST / Viton

Item #	Part #	Qty	Description
0110	40931	1	Housing, Check Valve, Hsg-C/Vlv V30 Body
0124	43976	1	Cap, Valve V-30 TF V-30
0133	43528	1	Cup, V-30
0138	43956	1	Guide, V-30
0140	09050	2	Bearing, M-Lnr .500 ID, M-Liner Sleeve Brg 1/2
0260	47889	2	Guide, Inner-Bearing
0270	47892	2	Case, Shaft Seal - V-30 Valve Saft
0337	43525	2	Link - V-30
0338	43524	1	Link Arm - Link V-30
0354	46239	1	Seal Ring, Bonded Viton, V30 Valve
0368	40987	1	Shaft, Valve - V-30
0370	40967	1	Shaft, Valve Guide, .437 OD X 5.032 Long
0382	43526	1	Spring, Compression Spring Valve 302 SS
0412	46072	2	Gasket, Flange M30-3
0450	09048	2	O-Ring, .75 ID Viton, 1.00 OD X .12 Dia Wall
0455	09311	2	O-Ring, .484 ID Brn Viton, .762 OD X .139 Dia Wall
0465	40969	1	Ring, Upper-Seal, 3.734 ID, Valve Seals
0541	06936	4	Pin, Cotter .062 X .500 18-8 SS
0543	06822	1	Pin, Groove; Tapered, 3/16" X 1.00 LG, 303 SS
0559	06820	1	Retaining Ring, .625 Xtrnl Basic
0564	06821	2	Retaining Ring, .500 Xtrnl "E"
0610	04762	6	Screw, .625-11 X 1.75 Hex Head Cap
0611	06466	2	Screw, .625-11 X 2.50 Hex Head Cap, Grade 5
0615	06819	2	Screw, #10-24 X .375 Allen Socket Flat Head
0626	04762	4	Screw, .625-11 X 1.75 Hex Head Cap
0718	04764	8	Flat Washer, .656 ID 1.312 OD X .095 Thk
0727	43521	1	Washer, Dashpot, Wash Plain
0741	06818	4	Flat Washer, .219 ID .50 OD, .06 Thk, SS
0800	48854	1	Valve Manual

# V-30 4" Aluminum Valve Cont.

APPLICABLE FOR VALVES MANUFACTURED AFTER MARCH 26, 1999

## A4624 & A4624A - Aluminum / SST / Viton

Item #	Part #	Qty	Description
0110	40931	1	Housing, Check Valve, Hsg-C/Vlv V30 Body
0124	43976	1	Cap, Valve V-30 TF V-30
0133	43528	1	Cup, V-30
0138	43956	1	Guide, V-30
0140	09050	2	Bearing, M-Lnr .500 ID, M-Liner Sleeve Brg 1/2
0260	47889	2	Guide, Inner-Bearing
0270	47892	2	Case, Shaft Seal - V-30 Valve Saft
0337	43525	2	Link - V-30
0338	43524	1	Link Arm - Link V-30
0354	46239	1	Seal Ring, Bonded Viton, V30 Valve
0368	40987	1	Shaft, Valve - V-30
0370	40967	1	Shaft, Valve Guide, .437 OD X 5.032 Long
0382	43526	1	Spring, Compression Spring Valve 302 SS
0412	40704	2	Gasket, Flange M30-3
0450	09048	2	O-Ring, .75 ID Viton, 1.00 OD X .12 Dia Wall
0455	09311	2	O-Ring, .484 ID Brn Viton, .762 OD X .139 Dia Wall
0465	40969	1	Ring, Upper-Seal, 3.734 ID, Valve Seals
0541	06936	4	Pin, Cotter .062 X .500 18-8 SS
0543	06822	1	Pin, Groove; Tapered, 3/16" X 1.00 LG, 303 SS
0559	06820	1	Retaining Ring, .625 Xtrnl Basic
0564	06821	2	Retaining Ring, .500 Xtrnl "E"
0610	04762	6	Screw, .625-11 X 1.75 Hex Head Cap
0611	06466	2	Screw, .625-11 X 2.50 Hex Head Cap, Grade 5
0615	06819	2	Screw, #10-24 X .375 Allen Socket Flat Head
0626	04762	4	Screw, .625-11 X 1.75 Hex Head Cap
0718	04764	8	Flat Washer, .656 ID 1.312 OD X .095 Thk
0727	43521	1	Washer, Dashpot, Wash Plain
0741	06818	4	Flat Washer, .219 ID .50 OD, .06 Thk, SS
0800	48854	1	Valve Manual

## Accessories

### A4710 - Linkage Assembly (Applicable for valves manufactured after August 1, 1993)

Item #	Part #	Qty	Description
0125	40984	1	Handle Assembly, Valve V-15 & V30
0337	40964	1	Link, Operating Link V30 Operating
0376	40963	2	Sleeve, Preset, .625 OD X .095 W X .50 L
0514	46545	1	Extension, Ball Joint Special .375 (M-30+SA)
0515	04401	1	Ball Joint, Snap-off, .38-24, Shank LG .50
0534	06075	2	Nut, .375-16 Selflocking Hex Light
0535	06050	1	Nut, .250-28 Selflocking ESNA #79NTE-048
0615	06645	1	Screw, .250-28 X .500 Sltd Pan HD
0700	06054	1	Lock Washer, .375 Spring

### A3718 - Linkage Assembly - M30 Class 7, 27, 37, 47 (Applicable for valves manufactured after August 1, 1993)

Item #	Part #	Qty	Description
0001	04094	1	Knob, Ball 1.375 Dia .375-16 Thd
0002	04393	2	Retaining Ring, .375 Xtrnl "E"
0003	04401	1	Ball Joint, Snap-off .38-24 Shank Lg .50
0004	04638	1	Ball Joint, .25-28 X .31, "SO"-107
0005	06054	1	Lock Washer, .375 Spring
0006	06075	4	Nut, .375-16 Selflocking Hex, Light
0007	06081	1	Lock Washer, .25 Spring, Heavy
0008	09079	4	Screw, #10-24 X .625 Hex Head, SEMS, SS

## V-30 4" Aluminum Valve Cont.

0010	06948	1	Pin, Groove .125 X .750
0012	07304	2	Retaining Ring, .250 Xtrnl "E" Reinforced
0013	40948	2	Pivot, Shperical, .75 Spher Dia
0014	40963	4	Sleeve, Preset, .625 OD X .095 W X .50 L
0015	40986	1	Link Assembly, Stub, V15
0018	43087	1	Handle, Extended Link
0019	43090	1	Link, Preset
0020	40827	1	Link, Operating
0021	43652	1	Bracket, Lift, V7
0022	44688	1	Extension, Handle .375 Dia Stk X 5.187 L
0024	45345	1	Shaft, Valve handle, 303 SS, V7 Valve

### A5712 - Linkage Assembly - M60, MS15, MS30 (Applicable for valves manufactured after July 23, 1996)

Item #	Part #	Qty	Description
0001	04094	1	Knob, Ball 1.375 Dia .375-16 Thd
0002	04393	2	Retaining Ring, .375 Xtrnl "E"
0003	04401	1	Ball Joint, Snap-off .38-24 Shank Lg .50
0004	04638	1	Ball Joint, .25-28 X .31, "SO"-107
0005	06054	1	Lock Washer, .375 Spring
0006	06075	4	Nut, .375-16 Selflocking Hex, Light
0007	06050	1	Nut, .250-28 Selflocking ESNA #79NTE-048
0008	09079	4	Screw, #10-24 X .625 Hex Head, SEMS, SS
0010	06948	1	Pin, Groove .125 X .750
0012	07304	2	Retaining Ring, .250 Xtrnl "E" Reinforced
0013	40948	2	Pivot, Shperical, .75 Spher Dia
0014	40963	4	Sleeve, Preset, .625 OD X .095 W X .50 L
0015	40986	1	Link Assembly, Stub, V15
0018	43087	1	Handle, Extended Link
0019	43090	1	Link, Preset
0020	44069	1	Linkage, Horizontal, Linkage M70 & MS75
0021	43652	1	Bracket, Lift, V7
0022	44688	1	Extension, Handle .375 Dia Stk X 5.187 L
0024	45345	1	Shaft, Valve handle, 303 SS, V7 Valve

### A3730 - Linkage Assembly - Counter Extension (Applicable for valves manufactured after August 1, 1993)

Item #	Part #	Qty	Description
0001	04094	1	Knob, Ball 1.375 Dia .375-16 Thd
0002	04393	2	Retaining Ring, .375 Xtrnl "E"
0003	04401	1	Ball Joint, Snap-off .38-24 Shank Lg .50
0004	04638	1	Ball Joint, .25-28 X .31, "SO"-107
0005	06054	1	Lock Washer, .375 Spring
0006	06075	4	Nut, .375-16 Selflocking Hex, Light
0007	06081	1	Lock Washer, .25 Spring, Heavy
0008	09079	4	Screw, #10-24 X .625 Hex Head, SEMS, SS
0010	06948	1	Pin, Groove .125 X .750
0012	07304	2	Retaining Ring, .250 Xtrnl "E" Reinforced
0013	40948	2	Pivot, Shperical, .75 Spher Dia
0014	40963	4	Sleeve, Preset, .625 OD X .095 W X .50 L
0015	40986	1	Link Assembly, Stub, V15
0018	43087	1	Handle, Extended Link
0019	43090	1	Link, Preset
0020	43093	1	Linkage, Vertical MS30
0021	43652	1	Bracket, Lift, V7
0022	44688	1	Extension, Handle .375 Dia Stk X 5.187 L
0024	45345	1	Shaft, Valve handle, 303 SS, V7 Valve

# VS-3 3" Steel Case Valve

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APPLICABLE FOR VALVES MANUFACTURED AFTER JULY 9, 1999

## A3650-1 - Cast Steel / AL / Viton-150# ANSI Flanged

Item #	Part #	Qty	Description
0110	45513	1	Housing Assembly, Steel Valve, 3" Steel Valve, 150#
0124	45533	1	Cap Assembly, Steel Valve
0133	43528	1	Cup, V-30
0138	45530	1	Guide, Machined Guide VS-30
0139	45521	2	Guide, Retainer ring VS3
0140	09050	2	Bearing, M-Lnr .500 ID, M-Liner Sleeve Brg 1/2
0260	47890	2	Guide, Inner-Bearing SS
0270	47893	2	Case, Shaft Seal - V-30 Valve Saft
0337	43525	2	Link - V-30
0338	43524	1	Link Arm - Link V-30
0354	46239	1	Seal Ring, Bonded Viton, V30 Valve
0368	45507	1	Shaft, Cap Valve Shaft - V-30
0370	40967	1	Shaft, Valve Guide, .437 OD X 5.032 Long
0382	40942	1	Spring, Compression Spring Valve 1.25 OD
0420	07261	1	Gasket, Flange 3" RNG Type, Slip-on 150 #
0450	07504	1	O-Ring, 6.75 ID Viton, 7.00 OD X .12 Dia Wall
0451	09048	2	O-Ring, .75 ID Viton 1.00 OD X .12 Dia Wall
0453	40969	1	Ring, Upper-Seal 3.734 ID, Valve Seal
0455	07611	1	O-Ring, 4.62 ID Viton, 4.88 OD X .12 Dia Wall
0456	09311	2	O-Ring, .484 ID Brn Viton .762 OD X .139 Dia Wall
0533	07212	4	Nut, .625-11 Hex Nut
0541	04005	4	Pin, Cotter .062 X .500
0543	06822	1	Pin, Groove; Tapered, 3/16" X 1.00 LG, 303 SS
0559	04001	1	Retaining Ring, .625 Xtrnl "E"
0564	04003	2	Retaining Ring, .500 Xtrnl "E"
0611	07255	4	Screw, .750-10 X 2.25 Hex Head, Grade 5
0614	07293	4	Screw, .625-11 X 2.75 Hex Head Cap
0627	07613	4	Screw, .250-20 X .625 Hex Head
0650	45241	1	Kit, Stud Nut & Gasket 3" 150 # ANSI FL
0718	07256	4	Flat Washer, .795 ID 1.355 OD X .09-.11 Thk
0727	40944	1	Washer, Dashpot, Wash Plain
0741	04789	4	Flat Washer, .219 ID .50 OD, .06 Thk
0745	06081	4	Lock Washer, .25 Spring Heavy
0800	48854	1	Valve Manual



# VS-3 3" Steel Case Valve Cont.

APPLICABLE FOR VALVES MANUFACTURED AFTER JULY 9, 1999

## A3650-2 - Cast Steel / C.I. / Viton-150# ANSI Flanged

Item #	Part #	Qty	Description
0110	45513	1	Housing Assembly, Steel Valve, 3" Steel Valve, 150#
0124	45533	1	Cap Assembly, Steel Valve
0133	45528	1	Cup, Machined Cup VS 30 IR
0138	45529	1	Guide, Machined Guide VS30 IR
0139	45521	2	Guide, Retainer ring VS3
0140	09050	2	Bearing, M-Lnr .500 ID, M-Liner Sleeve Brg 1/2
0260	47890	2	Guide, Inner-Bearing SS
0270	47893	2	Case, Shaft Seal - V-30 Valve Saft
0337	43525	2	Link - V-30
0338	45531	1	Link Arm - Link VS30 IR
0354	46239	1	Seal Ring, Bonded Viton, V30 Valve
0368	45507	1	Shaft, Cap Valve Shaft - V-30
0370	40967	1	Shaft, Valve Guide, .437 OD X 5.032 Long
0382	40942	1	Spring, Compression Spring Valve 1.25 OD
0420	07261	1	Gasket, Flange 3" RNG Type, Slip-on 150 #
0450	07504	1	O-Ring, 6.75 ID Viton, 7.00 OD X .12 Dia Wall
0451	09048	2	O-Ring, .75 ID Viton 1.00 OD X .12 Dia Wall
0453	40969	1	Ring, Upper-Seal 3.734 ID, Valve Seal
0455	07611	1	O-Ring, 4.62 ID Viton, 4.88 OD X .12 Dia Wall
0456	09311	2	O-Ring, .484 ID Brn Viton .762 OD X .139 Dia Wall
0533	07212	4	Nut, .625-11 Hex Nut
0541	04005	4	Pin, Cotter .062 X .500
0543	06822	1	Pin, Groove; Tapered, 3/16" X 1.00 LG, 303 SS
0559	04001	1	Retaining Ring, .625 Xtrnl "E"
0564	04003	2	Retaining Ring, .500 Xtrnl "E"
0611	07255	4	Screw, .750-10 X 2.25 Hex Head, Grade 5
0614	07293	4	Screw, .625-11 X 2.75 Hex Head Cap
0627	07613	4	Screw, .250-20 X .625 Hex Head
0650	45241	1	Kit, Stud Nut & Gasket 3 In 150 # ANSI FL
0718	07256	4	Flat Washer, .795 ID 1.355 OD X .09-.11 Thk
0727	40944	1	Washer, Dashpot, Wash Plain
0741	04789	4	Flat Washer, .219 ID .50 OD, .06 Thk
0745	06081	4	Lock Washer, .25 Spring Heavy
0800	48854	1	Valve Manual

# VS-3 3" Steel Case Valve Cont.

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APPLICABLE FOR VALVES MANUFACTURED AFTER JULY 9, 1999

## A3652-1 - Cast Steel / Al / Teflon-150# ANSI Flanged

Item #	Part #	Qty	Description
0110	45513	1	Housing Assembly, Steel Valve, 3" Steel Valve, 150#
0124	45533	1	Cap Assembly, Steel Valve
0133	43528	1	Cup, V-30
0138	45527	1	Guide, Machined Guide VS-30 with Teflon
0139	45521	2	Guide, Retainer ring VS3
0140	09050	2	Bearing, M-Lnr .500 ID, M-Liner Sleeve Brg 1/2
0260	47890	2	Guide, Inner-Bearing SS
0270	47893	2	Case, Shaft Seal - V-30 Valve Saft
0337	43525	2	Link - V-30
0338	43524	1	Link Arm - Link V-30
0354	43981	1	Seal O-Ring, Teflon, SL-O/R Teflon V30 Valve
0368	45507	1	Shaft, Cap Valve Shaft - V-30
0370	40967	1	Shaft, Valve Guide, .437 OD X 5.032 Long
0382	40942	1	Spring, Compression Spring Valve 1.25 OD
0420	07261	1	Gasket, Flange 3" RNG Type, Slip-on 150 #
0450	07608	1	O-Ring, 6.75 ID Teflon, 7.00 OD X .12 Dia Wall
0451	09049	2	O-Ring, .75 ID Teflon 1.00 OD X .12 Dia Wall
0453	07202	1	O-Ring, 3.75 ID Teflon, 4.00 OD X .12 Dia Wall
0455	07612	1	O-Ring, 4.62 ID Teflon, 4.88 OD X .12 Dia Wall
0456	09045	2	O-Ring, .50 ID Teflon with Viton Core .12 Sqr Wall
0533	07212	4	Nut, .625-11 Hex Nut
0541	04005	4	Pin, Cotter .062 X .500
0543	06822	1	Pin, Groove; Tapered, 3/16" X 1.00 LG, 303 SS
0559	04001	1	Retaining Ring, .625 Xtrnl "E"
0564	04003	2	Retaining Ring, .500 Xtrnl "E"
0572	07203	1	Ring, Lock 3.543 ID Shaft Dia 3.687 X .06 Teflon
0611	07255	4	Screw, .750-10 X 2.25 Hex Head, Grade 5
0614	07293	4	Screw, .625-11 X 2.75 Hex Head Cap
0627	07613	4	Screw, .250-20 X .625 Hex Head
0650	45241	1	Kit, Stud Nut & Gasket 3 In 150 # ANSI FL
0718	07256	4	Flat Washer, .795 ID 1.355 OD X .09-.11 Thk
0727	40944	1	Washer, Dashpot, Wash Plain
0741	04789	4	Flat Washer, .219 ID .50 OD, .06 Thk
0745	06081	4	Lock Washer, .25 Spring Heavy
0800	48854	1	Valve Manual

## VS-3 3" Steel Case Valve Cont.

APPLICABLE FOR VALVES MANUFACTURED AFTER JULY 9, 1999

### A3652-2 - Cast Steel / C.I. / Teflon-150# ANSI Flanged

Item #	Part #	Qty	Description
0110	45513	1	Housing Assembly, Steel Valve, 3" Steel Valve, 150#
0124	45533	1	Cap Assembly, Steel Valve
0133	45528	1	Cup, Machined Cup VS 30 IR
0138	45526	1	Guide, Machined Guide VS-30 IR
0139	45521	2	Guide, Retainer ring VS3
0140	09050	2	Bearing, M-Lnr .500 ID, M-Liner Sleeve Brg 1/2
0260	47890	2	Guide, Inner-Bearing SS
0270	47893	2	Case, Shaft Seal - V-30 Valve Saft
0337	43525	2	Link - V-30
0338	45531	1	Arm, Link (Machined) - Arm-Link VS-30 IR
0354	43981	1	Seal O-Ring, Teflon, SL-O/R Teflon V30 Valve
0368	45507	1	Shaft, Cap Valve Shaft - V-30
0370	40967	1	Shaft, Valve Guide, .437 OD X 5.032 Long
0382	40942	1	Spring, Compression Spring Valve 1.25 OD
0420	07261	1	Gasket, Flange 3" RNG Type, Slip-on 150 #
0450	07608	1	O-Ring, 6.75 ID Teflon, 7.00 OD X .12 Dia Wall
0451	09049	2	O-Ring, .75 ID Teflon 1.00 OD X .12 Dia Wall
0453	07202	1	O-Ring, 3.75 ID Teflon, 4.00 OD X .12 Dia Wall
0455	07612	1	O-Ring, 4.62 ID Teflon, 4.88 OD X .12 Dia Wall
0456	09045	2	O-Ring, .50 ID Teflon w/Vitn Core .12 Sqr Wall
0533	07212	4	Nut, .625-11 Hex Nut
0541	04005	4	Pin, Cotter .062 X .500
0543	06822	1	Pin, Groove; Tapered, 3/16" X 1.00 LG, 303 SS
0559	04001	1	Retaining Ring, .625 Xtrnl "E"
0564	04003	2	Retaining Ring, .500 Xtrnl "E"
0572	07203	1	Ring, Lock 3.543 ID Shaft Dia 3.687 X .06 Teflon
0611	07255	4	Screw, .750-10 X 2.25 Hex Head, Grade 5
0614	07293	4	Screw, .625-11 X 2.75 Hex Head Cap
0627	07613	4	Screw, .250-20 X .625 Hex Head
0650	45241	1	Kit, Stud Nut & Gasket 3 In 150 # ANSI FL
0718	07256	4	Flat Washer, .795 ID 1.355 OD X .09-.11 Thk
0727	40944	1	Washer, Dashpot, Wash Plain
0741	04789	4	Flat Washer, .219 ID .50 OD, .06 Thk
0745	06081	4	Lock Washer, .25 Spring Heavy
0800	48854	1	Valve Manual

# VS-3 3" Steel Case Valve Cont.

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APPLICABLE FOR VALVES MANUFACTURED AFTER JULY 9, 1999

## A3655-1 - Cast Steel / AL / Viton-300# ANSI Flanged

Item #	Part #	Qty	Description
0110	45523	1	Housing Assembly, Steel Valve, 3" Steel Valve, 300#
0124	45533	1	Cap Assembly, Steel Valve
0133	43528	1	Cup, V30
0138	45530	1	Guide, Machined Guide VS30
0139	45521	2	Guide, Retainer ring VS3
0140	09050	2	Bearing, M-Lnr .500 ID, M-Liner Sleeve Brg 1/2
0260	47890	2	Guide, Inner-Bearing SS
0270	47893	2	Case, Shaft Seal - V-30 Valve Saft
0337	43525	2	Link - V-30
0338	43524	1	Link Arm, Link V-30
0354	46239	1	Seal O-Ring, Bonded Viton V30 Valve
0368	45507	1	Shaft, Cap Valve Shaft - V-30
0370	40967	1	Shaft, Valve Guide, .437 OD X 5.032 Long
0382	40942	1	Spring, Compression Spring Valve 1.25 OD
0420	07262	1	Gasket, Flange 3" RNG Type, Slip-on 300 #
0450	07504	1	O-Ring, 6.75 ID Viton, 7.00 OD X .12 Dia Wall
0451	09048	2	O-Ring, .75 ID Viton 1.00 OD X .12 Dia Wall
0453	40969	1	Ring, Upper-Seal 3.734 ID, Valve Seal
0455	07611	1	O-Ring, 4.62 ID Viton, 4.88 OD X .12 Dia Wall
0456	09311	2	O-Ring, .484 ID Brn Viton .762 OD X .139 Dia Wall
0533	06985	8	Nut, .750-10 Hex Nut Grade 2
0541	04005	4	Pin, Cotter .062 X .500
0543	06822	1	Pin, Groove; Tapered, 3/16" X 1.00 LG, 303 SS
0559	04001	1	Retaining Ring, .625 Xtrnl "E"
0564	04003	2	Retaining Ring, .500 Xtrnl "E"
0611	07255	4	Screw, .750-10 X 2.25 Hex Head, Grade 5
0614	07259	8	Screw, .750-10 X 3.50 Hex Head, Grade 5
0627	07613	4	Screw, .250-20 X .625 Hex Head
0650	45242	1	Kit, Stud Nut & Gasket 3 In 300 # ANSI FL
0718	07256	4	Flat Washer, .795 ID 1.355 OD X .09-.11 Thk
0727	40944	1	Washer, Dashpot, Wash Plain
0741	04789	4	Flat Washer, .219 ID .50 OD, .06 Thk
0745	06081	4	Lock Washer, .25 Spring Heavy
0800	48854	1	Valve Manual

## VS-3 3" Steel Case Valve Cont.

APPLICABLE FOR VALVES MANUFACTURED AFTER JULY 9, 1999

### A3655-2 - Cast Steel / C.I. / Viton-300# ANSI Flanged

Item #	Part #	Qty	Description
0110	45523	1	Housing Assembly, Steel Valve, 3" Steel Valve, 300#
0124	45533	1	Cap Assembly, Steel Valve
0133	45528	1	Cup, Machined VS 30 IR
0138	45529	1	Guide, Machined Guide VS30 IR
0139	45521	2	Guide, Retainer ring VS3
0140	09050	2	Bearing, M-Lnr .500 ID, M-Liner Sleeve Brg 1/2
0260	47890	2	Guide, Inner-Bearing SS
0270	47893	2	Case, Shaft Seal - V-30 Valve Saft
0337	43525	2	Link - V-30
0338	45531	1	Arm, Link (Machined) Arm-Link VS-30 IR
0354	46239	1	Seal O-Ring, Bonded Viton V30 Valve
0368	45507	1	Shaft, Cap Valve Shaft - V-30
0370	40967	1	Shaft, Valve Guide, .437 OD X 5.032 Long
0382	40942	1	Spring, Compression Spring Valve 1.25 OD
0420	07262	1	Gasket, Flange 3" RNG Type, Slip-on 300 #
0450	07504	1	O-Ring, 6.75 ID Viton, 7.00 OD X .12 Dia Wall
0451	09048	2	O-Ring, .75 ID Viton 1.00 OD X .12 Dia Wal
0453	40969	1	Ring, Upper-Seal 3.734 ID, Valve Seal
0455	07611	1	O-Ring, 4.62 ID Viton, 4.88 OD X .12 Dia Wall
0456	09311	2	O-Ring, .484 ID Brn Viton .762 OD X .139 Dia Wall
0533	06985	8	Nut, .750-10 Hex Nut Grade 2
0541	04005	4	Pin, Cotter .062 X .500
0543	06822	1	Pin, Groove; Tapered, 3/16" X 1.00 LG, 303 SS
0559	04001	1	Retaining Ring, .625 Xtrnl "E"
0564	04003	2	Retaining Ring, .500 Xtrnl "E"
0611	07255	4	Screw, .750-10 X 2.25 Hex Head, Grade 5
0614	07259	8	Screw, .750-10 X 3.50 Hex Head, Grade 5
0627	07613	4	Screw, .250-20 X .625 Hex Head
0650	45242	1	Kit, Stud Nut & Gasket 3 In 300 # ANSI FL
0718	07256	4	Flat Washer, .795 ID 1.355 OD X .09-.11 Thk
0727	40944	1	Washer, Dashpot, Wash Plain
0741	04789	4	Flat Washer, .219 ID .50 OD, .06 Thk
0745	06081	4	Lock Washer, .25 Spring Heavy
0800	48854	1	Valve Manual

## VS-3 3" Steel Case Valve Cont.

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APPLICABLE FOR VALVES MANUFACTURED AFTER JULY 9, 1999

### A3657-2 - Cast Steel / C.I. / Viton-150# Flat Face Flanged

Item #	Part #	Qty	Description
0110	47486	1	Weldment, 3" Valve HSG Valve 3" CL7 125# ST
0124	45533	1	Cap Assembly, Steel Valve
0133	45528	1	Cup, Machined VS 30 IR
0138	45529	1	Guide, Machined Guide VS30 IR
0139	45521	2	Guide, Retainer ring VS3
0140	09050	2	Bearing, M-Lnr .500 ID, M-Liner Sleeve Brg 1/2
0260	47890	2	Guide, Inner-Bearing SS
0270	47893	2	Case, Shaft Seal - V-30 Valve Saft
0337	43525	2	Link - V-30
0338	45531	1	Arm, Link (Machined) Arm-Link VS-30 IR
0354	46239	1	Seal O-Ring, Bonded Viton V30 Valve
0368	45507	1	Shaft, Cap Valve Shaft - V-30
0370	40967	1	Shaft, Valve Guide, .437 OD X 5.032 Long
0382	40942	1	Spring, Compression Spring Valve 1.25 OD
0420	07261	1	Gasket, Flange 3" RNG Type, Slip-on 150 #
0450	07504	1	O-Ring, 6.75 ID Viton, 7.00 OD X .12 Dia Wall
0451	09048	2	O-Ring, .75 ID Viton 1.00 OD X .12 Dia Wal
0453	40969	1	Ring, Upper-Seal 3.734 ID, Valve Seal
0455	07611	1	O-Ring, 4.62 ID Viton, 4.88 OD X .12 Dia Wall
0456	09311	2	O-Ring, .484 ID Brn Viton .762 OD X .139 Dia Wall
0533	07212	4	Nut, .625-11 Hex Nut
0541	04005	4	Pin, Cotter .062 X .500
0543	06822	1	Pin, Groove; Tapered, 3/16" X 1.00 LG, 303 SS
0559	04001	1	Retaining Ring, .625 Xtrnl "E"
0564	04003	2	Retaining Ring, .500 Xtrnl "E"
0611	07255	4	Screw, .750-10 X 2.25 Hex Head, Grade 5
0614	07293	4	Screw, .625-11 X 2.75 Hex Head Cap
0627	07613	4	Screw, .250-20 X .625 Hex Head
0650	45249	1	Kit, Stud Nut & Gasket 3 In 125 # Flat Face FL
0718	07256	4	Flat Washer, .795 ID 1.355 OD X .09-.11 Thk
0727	40944	1	Washer, Dashpot, Wash Plain
0741	04789	4	Flat Washer, .219 ID .50 OD, .06 Thk
0745	06081	4	Lock Washer, .25 Spring Heavy
0800	48854	1	Valve Manual

## VS-3 3" Steel Case Valve Cont.

APPLICABLE FOR VALVES MANUFACTURED AFTER JULY 9, 1999

### A3658-2 - Cast Steel / C.I. / Teflon-150# Flat Face Flanged

Item #	Part #	Qty	Description
0110	47486	1	Weldment, 3" Valve HSG Valve 3" CL7 125# ST
0124	45533	1	Cap Assembly, Steel Valve
0133	45528	1	Cup, Machined VS 30 IR
0138	45526	1	Guide, Machined Guide VS30 IR
0139	45521	2	Guide, Retainer ring VS3
0140	09050	2	Bearing, M-Lnr .500 ID, M-Liner Sleeve Brg 1/2
0260	47890	2	Guide, Inner-Bearing SS
0270	47893	2	Case, Shaft Seal - V-30 Valve Saft
0337	43525	2	Link - V-30
0338	45531	1	Arm, Link (Machined) Arm-Link VS-30 IR
0354	43981	1	Seal O-Ring, Teflon, SL-O/R TF V30 Valve
0368	45507	1	Shaft, Cap Valve Shaft - V-30
0370	40967	1	Shaft, Valve Guide, .437 OD X 5.032 Long
0382	40942	1	Spring, Compression Spring Valve 1.25 OD
0390	07269	2	Bearing, Sleeve M-Lnr, Rulon, .50 ID to .625 Lng
0420	07261	1	Gasket, Flange 3" RNG Type, Slip-on 150 #
0450	07608	1	O-Ring, 6.75 ID Teflon, 7.00 OD X .12 Dia Wall
0451	09049	2	O-Ring, .75 ID Teflon 1.00 OD X .12 Dia Wall
0453	07202	1	O-Ring, 3.75 ID Teflon, 4.00 OD X .12 Dia Wall
0455	07612	1	O-Ring, 4.62 ID Teflon, 4.88 OD X .12 Dia Wall
0456	09045	2	O-Ring, .50 ID Teflon w/Vitn Core .12 Dia Wall
0533	07212	4	Nut, .625-11 Hex Nut
0541	04005	4	Pin, Cotter .062 X .500
0543	06822	1	Pin, Groove; Tapered, 3/16" X 1.00 LG, 303 SS
0559	04001	1	Retaining Ring, .625 Xtrnl "E"
0564	04003	2	Retaining Ring, .500 Xtrnl "E"
0572	07203	1	Ring, Lock 3.543 ID Shaft Dia 3.687 X .06 T
0611	07255	4	Screw, .750-10 X 2.25 Hex Head, Grade 5
0614	07293	4	Screw, .625-11 X 2.75 Hex Head Cap
0627	07613	4	Screw, .250-20 X .625 Hex Head
0650	45249	1	Kit, Stud Nut & Gasket 3 In 125 # Flat Face FL
0718	07256	4	Flat Washer, .795 ID 1.355 OD X .09-.11 Thk
0727	40944	1	Washer, Dashpot, Wash Plain
0741	04789	4	Flat Washer, .219 ID .50 OD, .06 Thk
0745	06081	4	Lock Washer, .25 Spring Heavy
0800	48854	1	Valve Manual



# VS-3 3" Steel Case Valve Cont.

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## Accessories

### A5712 - Linkage Assembly - M60, MS15 & MS30 (Applicable for valves manufactured after July 23, 1996)

Item #	Part #	Qty	Description
0001	04094	1	Knob, Ball 1.375 Dia .375-16 Thd
0002	04393	2	Retaining Ring, .375 Xtrnl "E"
0003	04401	1	Ball Joint, Snap-off .38-24 Shank Lg .50
0004	04638	1	Ball Joint, .25-28 X .31, "SO"-107
0005	06054	1	Lock Washer, .375 Spring
0006	06075	4	Nut, .375-16 Selflocking Hex, Light
0007	06050	1	Nut, .250-28 Selflocking, ESNA #79NTE-048
0008	09079	4	Screw, #10-24 X .625 Hex Head, SEMS, SS
0010	06948	1	Pin, Groove .125 X .750
0012	07304	2	Retaining Ring, .250 Xtrnl "E" Reinforced
0013	40948	2	Pivot, Spherical, .75 Spher Dia
0014	40963	4	Sleeve, Preset, .625 OD X .095 W X .50 L
0015	40986	1	Link Assembly, Stub, V15
0018	43087	1	Handle, Extended Link, Handle Linkage Ext.
0019	43090	1	Link, Preset
0020	44069	1	Linkage, Horizontal, Linkage M70 & MS75
0021	43652	1	Bracket, Lift - Lift Bar V7
0022	44688	1	Extension, Handle, .375Dia Stk X 5.187 L
0024	45345	1	Shaft, Valve Handle - 303 SS, V7 Valve

### A3730 - Linkage Assembly - Counter Extension (Applicable for valves manufactured after August 1, 1993)

Item #	Part #	Qty	Description
0001	04094	1	Knob, Ball 1.375 Dia .375-16 Thd
0002	04393	2	Retaining Ring, .375 Xtrnl "E"
0003	04401	1	Ball Joint, Snap-off .38-24 Shank Lg .50
0004	04638	1	Ball Joint, .25-28 X .31, "SO"-107
0005	06054	1	Lock Washer, .375 Spring
0006	06075	4	Nut, .375-16 Selflocking Hex, Light
0007	06081	1	Lock Washer, .25 Spring, Heavy
0008	09079	4	Screw, #10-24 X .625 Hex Head, SEMS, SS
0010	06948	1	Pin, Groove .125 X .750
0012	07304	2	Retaining Ring, .250 Xtrnl "E" Reinforced
0013	40948	2	Pivot, Spherical, .75 Spher Dia
0014	40963	4	Sleeve, Preset, .625 OD X .095 W X .50 L
0015	40986	1	Link Assembly, Stub, V15
0018	43087	1	Handle, Extended Link
0019	43090	1	Link, Preset
0020	43093	1	Link, Vertical; MS30
0021	43652	1	Bracket, Lift - Bracket Lift Bar V7
0022	44688	1	Extension, Handle .375 Dia Stk X 5.187 L
0024	45345	1	Shaft, Valve handle, 303 SS, V7 Valve



# VS-4 4" Steel Case Valve

APPLICABLE FOR VALVES MANUFACTURED AFTER JULY 9, 1999

## A4650-1 - Cast Steel / AL / Viton-150# ANSI Flanged

Item #	Part #	Qty	Description
0110	45514	1	Housing Assembly, Steel Valve, 4" Steel Valve, 150#
0124	45533	1	Cap Assembly, Steel Valve
0133	43528	1	Cup, V-30
0138	45530	1	Guide, Machined Guide VS-30
0139	45521	2	Guide, Retainer ring VS3
0140	09050	2	Bearing, M-Lnr .500 ID, M-Liner Sleeve Brg 1/2
0260	47890	2	Guide, Inner-Bearing SS
0270	47893	2	Case, Shaft Seal - V-30 Valve Saft
0337	43525	2	Link - V-30
0338	43524	1	Link Arm - Link V-30
0354	46239	1	Seal Ring, Bonded Viton, V30 Valve
0368	45507	1	Shaft, Cap Valve Shaft - V-30
0370	40967	1	Shaft, Valve Guide, .437 OD X 5.032 Long
0382	40942	1	Spring, Compression Spring Valve 1.25 OD
0420	07263	1	Gasket, Flange 4" RNG Type, Slip-on 150 #
0450	07504	1	O-Ring, 6.75 ID Viton, 7.00 OD X .12 Dia Wall
0451	09048	2	O-Ring, .75 ID Viton 1.00 OD X .12 Dia Wall
0453	40969	1	Ring, Upper-Seal 3.734 ID, Valve Seal
0455	07611	1	O-Ring, 4.62 ID Viton, 4.88 OD X .12 Dia Wall
0456	09311	2	O-Ring, .484 ID Brn Viton .762 OD X .139 Dia Wall
0533	07212	8	Nut, .625-11 Hex Nut
0541	04005	4	Pin, Cotter .062 X .500
0543	06822	1	Pin, Groove; Tapered, 3/16" X 1.00 LG, 303 SS
0559	04001	1	Retaining Ring, .625 Xtrnl "E"
0564	04003	2	Retaining Ring, .500 Xtrnl "E"
0611	07255	4	Screw, .750-10 X 2.25 Hex Head, Grade 5
0614	07293	8	Screw, .625-11 X 2.75 Hex Head Cap
0627	07613	4	Screw, .250-20 X .625 Hex Head
0650	45248	1	Kit, Stud Nut & Gasket 4 In 150 # ANSI FL
0718	07256	4	Flat Washer, .795 ID 1.355 OD X .09-.11 Thk
0727	40944	1	Washer, Dashpot, Wash Plain
0741	04789	4	Flat Washer, .219 ID .50 OD, .06 Thk
0745	06081	4	Lock Washer, .25 Spring Heavy
0800	48854	1	Valve Manual

# VS-4 4" Steel Case Valve Cont.

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APPLICABLE FOR VALVES MANUFACTURED AFTER JULY 9, 1999

## A4650-2 - Cast Steel / C.I. / Viton-150# ANSI Flanged

Item #	Part #	Qty	Description
0110	45514	1	Housing Assembly, Steel Valve, 4" Steel Valve, 150#
0124	45533	1	Cap Assembly, Steel Valve
0133	45528	1	Cup, Machined Cup VS 30 IR
0138	45529	1	Guide, Machined Guide VS30 IR
0139	45521	2	Guide, Retainer ring VS3
0140	09050	2	Bearing, M-Lnr .500 ID, M-Liner Sleeve Brg 1/2
0260	47890	2	Guide, Inner-Bearing SS
0270	47893	2	Case, Shaft Seal - V-30 Valve Saft
0337	43525	2	Link - V-30
0338	45531	1	Link Arm - Link VS30 IR
0354	46239	1	Seal Ring, Bonded Viton, V30 Valve
0368	45507	1	Shaft, Cap Valve Shaft - V-30
0370	40967	1	Shaft, Valve Guide, .437 OD X 5.032 Long
0382	40942	1	Spring, Compression Spring Valve 1.25 OD
0420	07263	1	Gasket, Flange 4" RNG Type, Slip-on 150 #
0450	07504	1	O-Ring, 6.75 ID Viton, 7.00 OD X .12 Dia Wall
0451	09048	2	O-Ring, .75 ID Viton 1.00 OD X .12 Dia Wall
0453	40969	1	Ring, Upper-Seal 3.734 ID, Valve Seal
0455	07611	1	O-Ring, 4.62 ID Viton, 4.88 OD X .12 Dia Wall
0456	09311	2	O-Ring, .484 ID Brn Viton .762 OD X .139 Dia Wall
0533	07212	8	Nut, .625-11 Hex Nut
0541	04005	4	Pin, Cotter .062 X .500
0543	06822	1	Pin, Groove; Tapered, 3/16" X 1.00 LG, 303 SS
0559	04001	1	Retaining Ring, .625 Xtrnl "E"
0564	04003	2	Retaining Ring, .500 Xtrnl "E"
0611	07255	4	Screw, .750-10 X 2.25 Hex Head, Grade 5
0614	07293	8	Screw, .625-11 X 2.75 Hex Head Cap
0627	07613	4	Screw, .250-20 X .625 Hex Head
0650	45248	1	Kit, Stud Nut & Gasket 4 In 150 # ANSI FL
0718	07256	4	Flat Washer, .795 ID 1.355 OD X .09-.11 Thk
0727	40944	1	Washer, Dashpot, Wash Plain
0741	04789	4	Flat Washer, .219 ID .50 OD, .06 Thk
0745	06081	4	Lock Washer, .25 Spring Heavy
0800	48854	1	Valve Manual

## VS-4 4" Steel Case Valve Cont.

APPLICABLE FOR VALVES MANUFACTURED AFTER JULY 9, 1999

### A4652-1 - Cast Steel / AI / Teflon-150# ANSI Flanged

Item #	Part #	Qty	Description
0110	45514	1	Housing Assembly, Steel Valve, 4" Steel Valve, 150#
0124	45533	1	Cap Assembly, Steel Valve
0133	43528	1	Cup, V-30
0138	45527	1	Guide, Machined Guide VS-30 with Teflon
0139	45521	2	Guide, Retainer ring VS3
0140	09050	2	Bearing, M-Lnr .500 ID, M-Liner Sleeve Brg 1/2
0260	47890	2	Guide, Inner-Bearing SS
0270	47893	2	Case, Shaft Seal - V-30 Valve Saft
0337	43525	2	Link - V-30
0338	43524	1	Link Arm - Link V-30
0354	43981	1	Seal O-Ring, Teflon, SL-O/R Teflon V30 Valve
0368	45507	1	Shaft, Cap Valve Shaft - V-30
0370	40967	1	Shaft, Valve Guide, .437 OD X 5.032 Long
0382	40942	1	Spring, Compression Spring Valve 1.25 OD
0420	07263	1	Gasket, Flange 4" RNG Type, Slip-on 150 #
0450	07608	1	O-Ring, 6.75 ID Teflon, 7.00 OD X .12 Dia Wall
0451	09049	2	O-Ring, .75 ID Teflon 1.00 OD X .12 Dia Wall
0453	07202	1	O-Ring, 3.75 ID Teflon, 4.00 OD X .12 Dia Wall
0455	07612	1	O-Ring, 4.62 ID Teflon, 4.88 OD X .12 Dia Wall
0456	09045	2	O-Ring, .50 ID Teflon with Viton Core .12 Sqr Wall
0533	07212	8	Nut, .625-11 Hex Nut
0541	04005	4	Pin, Cotter .062 X .500
0543	06822	1	Pin, Groove; Tapered, 3/16" X 1.00 LG, 303 SS
0559	04001	1	Retaining Ring, .625 Xtrnl "E"
0564	04003	2	Retaining Ring, .500 Xtrnl "E"
0572	07203	1	Ring, Lock 3.543 ID Shaft Dia 3.687 X .06 Teflon
0611	07255	4	Screw, .750-10 X 2.25 Hex Head, Grade 5
0614	07293	8	Screw, .625-11 X 2.75 Hex Head Cap
0627	07613	4	Screw, .250-20 X .625 Hex Head
0650	45248	1	Kit, Stud Nut & Gasket 4 In 150 # ANSI FL
0718	07256	4	Flat Washer, .795 ID 1.355 OD X .09-.11 Thk
0727	40944	1	Washer, Dashpot, Wash Plain
0741	04789	4	Flat Washer, .219 ID .50 OD, .06 Thk
0745	06081	4	Lock Washer, .25 Spring Heavy
0800	48854	1	Valve Manual

# VS-4 4" Steel Case Valve Cont.

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APPLICABLE FOR VALVES MANUFACTURED AFTER JULY 9, 1999

## A4652-2 - Cast Steel / C.I. / Teflon-150# ANSI Flanged

Item #	Part #	Qty	Description
0110	45514	1	Housing Assembly, Steel Valve, 4" Steel Valve, 150#
0124	45533	1	Cap Assembly, Steel Valve
0133	45528	1	Cup, Machined Cup VS 30 IR
0138	45526	1	Guide, Machined Guide VS-30 IR
0139	45521	2	Guide, Retainer ring VS3
0140	09050	2	Bearing, M-Lnr .500 ID, M-Liner Sleeve Brg 1/2
0260	47890	2	Guide, Inner-Bearing SS
0270	47893	2	Case, Shaft Seal - V-30 Valve Saft
0337	43525	2	Link - V-30
0338	45531	1	Arm, Link (Machined) - Arm-Link VS-30 IR
0354	43981	1	Seal O-Ring, Teflon, SL-O/R Teflon V30 Valve
0368	45507	1	Shaft, Cap Valve Shaft - V-30
0370	40967	1	Shaft, Valve Guide, .437 OD X 5.032 Long
0382	40942	1	Spring, Compression Spring Valve 1.25 OD
0420	07263	1	Gasket, Flange 4" RNG Type, Slip-on 150 #
0450	07608	1	O-Ring, 6.75 ID Teflon, 7.00 OD X .12 Dia Wall
0451	09049	2	O-Ring, .75 ID Teflon 1.00 OD X .12 Dia Wall
0453	07202	1	O-Ring, 3.75 ID Teflon, 4.00 OD X .12 Dia Wall
0455	07612	1	O-Ring, 4.62 ID Teflon, 4.88 OD X .12 Dia Wall
0456	09311	2	O-Ring, .484 ID Brn Viton .762 OD X .139 Dia Wall
0533	07212	8	Nut, .625-11 Hex Nut
0541	04005	4	Pin, Cotter .062 X .500
0543	06822	1	Pin, Groove; Tapered, 3/16" X 1.00 LG, 303 SS
0559	04001	1	Retaining Ring, .625 Xtrnl "E"
0564	04003	2	Retaining Ring, .500 Xtrnl "E"
0572	07203	1	Ring, Lock 3.543 ID Shaft Dia 3.687 X .06 Teflon
0611	07255	4	Screw, .750-10 X 2.25 Hex Head, Grade 5
0614	07293	8	Screw, .625-11 X 2.75 Hex Head Cap
0627	07613	4	Screw, .250-20 X .625 Hex Head
0650	45248	1	Kit, Stud Nut & Gasket 4 In 150 # ANSI FL
0718	07256	4	Flat Washer, .795 ID 1.355 OD X .09-.11 Thk
0727	40944	1	Washer, Dashpot, Wash Plain
0741	04789	4	Flat Washer, .219 ID .50 OD, .06 Thk
0745	06081	4	Lock Washer, .25 Spring Heavy
0800	48854	1	Valve Manual

## VS-4 4" Steel Case Valve Cont.

APPLICABLE FOR VALVES MANUFACTURED AFTER JULY 9, 1999

### A4655-1 - Cast Steel / AL / Viton-300# ANSI Flanged

Item #	Part #	Qty	Description
0110	45524	1	Housing Assembly, Steel Valve, 4" Steel Valve, 300#
0124	45533	1	Cap Assembly, Steel Valve
0133	43528	1	Cup, V30
0138	45530	1	Guide, Machined Guide VS30
0139	45521	2	Guide, Retainer ring VS3
0140	09050	2	Bearing, M-Lnr .500 ID, M-Liner Sleeve Brg 1/2
0260	47890	2	Guide, Inner-Bearing SS
0270	47893	2	Case, Shaft Seal - V-30 Valve Saft
0337	43525	2	Link - V-30
0338	43524	1	Link Arm, Link V-30
0354	46239	1	Seal O-Ring, Bonded Viton V30 Valve
0368	45507	1	Shaft, Cap Valve Shaft - V-30
0370	40967	1	Shaft, Valve Guide, .437 OD X 5.032 Long
0382	40942	1	Spring, Compression Spring Valve 1.25 OD
0420	07264	1	Gasket, Flange 4" RNG Type, Slip-on 300 #
0450	07504	1	O-Ring, 6.75 ID Viton, 7.00 OD X .12 Dia Wall
0451	09048	2	O-Ring, .75 ID Viton 1.00 OD X .12 Dia Wall
0453	40969	1	Ring, Upper-Seal 3.734 ID, Valve Seal
0455	07611	1	O-Ring, 4.62 ID Viton, 4.88 OD X .12 Dia Wall
0456	09311	2	O-Ring, .484 ID Brn Viton .762 OD X .139 Dia Wall
0533	06985	8	Nut, .750-10 Hex Nut Grade 2
0541	04005	4	Pin, Cotter .062 X .500
0543	06822	1	Pin, Groove; Tapered, 3/16" X 1.00 LG, 303 SS
0559	04001	1	Retaining Ring, .625 Xtrnl "E"
0564	04003	2	Retaining Ring, .500 Xtrnl "E"
0611	07255	4	Screw, .750-10 X 2.25 Hex Head, Grade 5
0614	07260	8	Screw, .750-10 X 3.75 Hex Head Cap, Grade 5
0627	07613	4	Screw, .250-20 X .625 Hex Head
0650	45243	1	Kit, Stud Nut & Gasket 4 In 300 # ANSI FL
0718	07256	4	Flat Washer, .795 ID 1.355 OD X .09-.11 Thk
0727	40944	1	Washer, Dashpot, Wash Plain
0741	04789	4	Flat Washer, .219 ID .50 OD, .06 Thk
0745	06081	4	Lock Washer, .25 Spring Heavy
0800	48854	1	Valve Manual

# VS-4 4" Steel Case Valve Cont.

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APPLICABLE FOR VALVES MANUFACTURED AFTER JULY 9, 1999

## A4655-2 - Cast Steel / C.I. / Viton-300# ANSI Flanged

Item #	Part #	Qty	Description
0110	45524	1	Housing Assembly, Steel Valve, 4" Steel Valve, 300#
0124	45533	1	Cap Assembly, Steel Valve
0133	45528	1	Cup, Machined VS 30 IR
0138	45529	1	Guide, Machined Guide VS30 IR
0139	45521	2	Guide, Retainer ring VS3
0140	09050	2	Bearing, M-Lnr .500 ID, M-Liner Sleeve Brg 1/2
0260	47890	2	Guide, Inner-Bearing SS
0270	47893	2	Case, Shaft Seal - V-30 Valve Saft
0337	43525	2	Link - V-30
0338	45531	1	Arm, Link (Machined) Arm-Link VS-30 IR
0354	46239	1	Seal O-Ring, Bonded Viton V30 Valve
0368	45507	1	Shaft, Cap Valve Shaft - V-30
0370	40967	1	Shaft, Valve Guide, .437 OD X 5.032 Long
0382	40942	1	Spring, Compression Spring Valve 1.25 OD
0420	07264	1	Gasket, Flange 4" RNG Type, Slip-on 300 #
0450	07504	1	O-Ring, 6.75 ID Viton, 7.00 OD X .12 Dia Wall
0451	09048	2	O-Ring, .75 ID Viton 1.00 OD X .12 Dia Wal
0453	40969	1	Ring, Upper-Seal 3.734 ID, Valve Seal
0455	07611	1	O-Ring, 4.62 ID Viton, 4.88 OD X .12 Dia Wall
0456	09311	2	O-Ring, .484 ID Brn Viton .762 OD X .139 Dia Wall
0533	06985	8	Nut, .750-10 Hex Nut Grade 2
0541	04005	4	Pin, Cotter .062 X .500
0543	06822	1	Pin, Groove; Tapered, 3/16" X 1.00 LG, 303 SS
0559	04001	1	Retaining Ring, .625 Xtrnl "E"
0564	04003	2	Retaining Ring, .500 Xtrnl "E"
0611	07255	4	Screw, .750-10 X 2.25 Hex Head, Grade 5
0614	07260	8	Screw, .750-10 X 3.75 Hex Head Cap, Grade 5
0627	07613	4	Screw, .250-20 X .625 Hex Head
0650	45243	1	Kit, Stud Nut & Gasket 4 In 300 # ANSI FL
0718	07256	4	Flat Washer, .795 ID 1.355 OD X .09-.11 Thk
0727	40944	1	Washer, Dashpot, Wash Plain
0741	04789	4	Flat Washer, .219 ID .50 OD, .06 Thk
0745	06081	4	Lock Washer, .25 Spring Heavy
0800	48854	1	Valve Manual

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# VS-4 4" Steel Case Valve Cont.

## Accessories

### A3731 - Linkage Assembly - MS75 (Applicable for valves manufactured after August 1, 1993)

Item #	Part #	Qty	Description
0001	04094	1	Knob, Ball 1.375 Dia .375-16 Thd
0002	04393	2	Retaining Ring, .375 Xtrnl "E"
0003	04401	1	Ball Joint, Snap-off .38-24 Shank Lg .50
0004	04638	1	Ball Joint, .25-28 X .31, "SO"-107
0005	06054	1	Lock Washer, .375 Spring
0006	06075	4	Nut, .375-16 Selflocking Hex, Light
0007	06081	1	Lock Washer, .25 Spring, Heavy
0008	09079	4	Screw, #10-24 X .625 Hex Head, SEMS, SS
0009	06939	8	Lock Washer, #10 Heavy 18-8 SS
0010	06948	1	Pin, Groove .125 X .750
0012	07304	2	Retaining Ring, .250 Xtrnl "E" Reinforced
0013	40948	2	Pivot, Spherical, .75 Spher Dia
0014	40963	4	Sleeve, Preset, .625 OD X .095 W X .50 L
0015	40986	1	Link Assembly, Stub, V15
0017	43087	1	Handle, Extended Linkage
0018	43090	1	Link, Preset
0019	43652	1	Bracket, Lift - Bracket Lift Bar V7
0020	44688	1	Extension, Handle .375 Dia Stk X 5.187 L
0021	44969	1	Washer, Gear SS
0022	45345	1	Shaft, Valve handle, 303 SS, V7 Valve
0023	47873	1	Link, Vertical MS75

### A3730 - Linkage Assembly - Counter Extension (Applicable for valves manufactured after August 1, 1993)

Item #	Part #	Qty	Description
0001	04094	1	Knob, Ball 1.375 Dia .375-16 Thd
0002	04393	2	Retaining Ring, .375 Xtrnl "E"
0003	04401	1	Ball Joint, Snap-off .38-24 Shank Lg .50
0004	04638	1	Ball Joint, .25-28 X .31, "SO"-107
0005	06054	1	Lock Washer, .375 Spring
0006	06075	4	Nut, .375-16 Selflocking Hex, Light
0007	06081	1	Lock Washer, .25 Spring, Heavy
0008	09079	4	Screw, #10-24 X .625 Hex Head, SEMS, SS
0010	06948	1	Pin, Groove .125 X .750
0012	07304	2	Retaining Ring, .250 Xtrnl "E" Reinforced
0013	40948	2	Pivot, Spherical, .75 Spher Dia
0014	40963	4	Sleeve, Preset, .625 OD X .095 W X .50 L
0015	40986	1	Link Assembly, Stub, V15
0018	43087	1	Handle, Extended Linkage
0019	43090	1	Link, Preset
0020	43093	1	Link, Vertical
0021	43652	1	Bracket, Lift - Bracket Lift Bar V7
0022	44688	1	Extension, Handle .375 Dia Stk X 5.187 L
0024	45345	1	Shaft, Valve handle, 303 SS, V7 Valve

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