

CVS Series YD & YS

Control Valves

The CVS Series YD/YS Control Valves are a 3-way cage guided design, suitable for on/off service, or throttling applications.

The CVS Series **YD** is a balanced design for service requiring general converging/diverging applications.

The CVS Series **YS** in an unbalanced design suitable for converging applications. The CVS Series YS may also be used in diverging ON/OFF service.

Flow characteristic is Linear. Standard shutoff classification is Class IV.

Standard body material is LCC, WCB/WC9 CF8M also available



CVS Series YD - 3 Inch

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SPECIFICATIONS

WCC Steel and Stainless Steel:

Available in 2 through 6 inch, Class 150, 300, 600, RF (Raised Face) or RTJ (Ring Type Joint) per ASME B16.34 latest edition

Flow Characteristic:

Linear

Flow Direction:

Series YS – Orientation Plug Down, Bottom Port Closed

Converging Service flow is right to left, Diverging Service flow is left to right.

Series YD: Bottom port is common

Plug Down, Left Port Closed Position:

Converging Service flow is right to bottom, Diverging Service is bottom port to right.

Plug Up, Right Port Closed:

Converging Service flow is left port to bottom, Diverging Service is bottom port to left.

Intermediate Plug Positions

Converging Service may be from both left and right ports to bottom port, capacities proportionate to plug travel. Diverging Service flow is from the bottom port to both the left and right ports, capacities split proportionately to plug travel.

Shutoff Classification:

Series YD and Series YS - Class IV standard

Approximate Shipping Weights:

2 Inch – 85 lbs (39kg) 3 inch – 150 lbs (68kg) 4 inch – 240 lbs (109kg) 6 inch – 500 lbs (227kg)

Yoke Boss and Stem Diameter for Mounting Actuator

| | Valve Stem and Yoke Boss Diameter | | | | | | | | |
|-----------------|-----------------------------------|------------------------|----------|------|--|--|--|--|--|
| Value Size Inch | Stan | dard | Optional | | | | | | |
| | Yoke Boss | Yoke Boss Stem Yoke Bo | | Stem | | | | | |
| | Inches | | | | | | | | |
| 2, 3, and 4 | 2 - 13/16 | 1/2 | 3 – 9/16 | 3/4 | | | | | |
| 6 | 3 - 9/16 | 3/4 | 5 | 1 | | | | | |
| | | m | m | | | | | | |
| 2, 3, and 4 | 71 | 12.7 | 90 | 19.1 | | | | | |
| 6 | 90 | 19.1 | 127 | 25.4 | | | | | |
| | | | | | | | | | |

- Always follow proper safety guidelines and lockout procedures while installing or performing any maintenance. Use proper personal protective equipment and ensure any additional process and safety guidelines are followed
- 1. Prior to installing the valve, or assembly, inspect all components for debris and or any damage that may have occurred during shipping.
- 2. Ensure process lines are clean and free of debris or foreign materials.
- 3. Always follow proper piping bolting or welding practices when installing the valve assembly. Use suitable gaskets between the valve and pipeline flanges as required.
- 4. Never exceed maximum working pressures/temperature limits.
- 5. Should maintenance or inspections require continuous service, install a 3 valve by pass in order to isolate the valve assembly during inspections and maintenance.
- 6. Note flow direction as indicated by the arrows on the valve and install accordingly.
 - Common port for the Series YD is the bottom port, while the common port for the series YS is the left handed port as shown by the direction arrow plate.
- 7. Both series of valves may be installed in any orientation, the recommended orientation is with the actuator vertical above the valve.

Valve Body Sizes and End Connections

| Valve Size | Steel or Stainless Steel | Cast Iron |
|-------------|-------------------------------------------------|------------------------------|
| 2 | NPT, Class 150, 300 or 600 Raised Face or Ring | NPT, Class 125 Flat Face, or |
| | Type Joint flanged, Buttweld, or Socket Weld | Class 250 Raised Face |
| 3, 4, and 6 | Class 150, 300, or 600 Raised Face or Ring Type | Class 125 Flat face, or |
| | Joint flanged, or Buttweld | Class 250 Raised Face |

Flow Direction:



MAINTENANCE

Valves and its components are subject to normal wear and tear. Service, inspection and maintenance frequency may depend on the severity of service condition.

- Always follow proper safety guidelines and lockout procedures while installing or performing any maintenance. Use proper personal protective equipment and ensure any additional process and safety guidelines are followed.
- Use a bypass valve to isolate the valve from the process. Ensure all pressure has been relieved from both sides of the valve.
- Disconnect operating lines providing a signal to the actuator to ensure the valve cannot open or close suddenly.

If an optional lubricator is used for PTFE, composition or additional packings that may require lubrication, it will be installed in place of the pipe plug. Do not lubricate packing used in process temperatures above 500°F (260°C), or in oxygen service. Use a good quality silicon-based lubricant. To operate the lubricator, turn the cap screw clockwise in order to push the lubricant into the packing box.

PACKING MAINTENANCE

The following instructions cover maintenance for PTFE V Ring packing. Similar method may also be used for PTFE composition packing. Composition packing is possible to replace without removing the actuator from the valve because of the split ring configuration.

Special attention should be used when installing graphite ribbon/filament packing to avoid trapping air between the rings. Install only one ring at a time, do not force the packing ring below the bottom of the packing box chamber. When a ring is added, the stack should not be pushed further than the thickness of adding each ring.

- 1. Remove the actuator and bonnet.
- 2. Remove the valve stem and valve plug assembly.
- 3. Remove packing flange nuts, packing flange, wiper ring and packing follower.
- 4. Remove the old packing using a packing hook or similar. Pay attention to avoid damaging the packing box walls. Alternatively, the packing may be pushed out through the bottom of the bonnet.
- 5. Clean and inspect packing box and metal components.
- 6. Inspect additional components prior to reinstalling the bonnet on the valve assembly.
- 7. Install new packing as required according to the correct packing arrangement. Take care to not damage the packing while installing.
- 8. Install packing flange and packing flange nuts.

For spring loaded PTFE V ring type packing: tighten the packing flange nuts so the shoulder on the packing follower contacts the bonnet.

For Graphite packing: tighten the packing flange nuts in accordance with the recommended torque values. Loosen off the packing nuts, the tighten once again to the minimum recommended torque value.

For other packing types: tighten the packing flange nuts, alternating in small increments, until either packing nut reaches the minimum recommended torque. Then tighten the other packing flange nut, ensuring the flange is level and to a 90-degree angle with the valve stem.

9. Mount the actuator to the bonnet and make stem connection as required.

| VALVE STEM | | | GRAPHITE TYPE PACKING | | | | PTFE TYPE PACKING | | | | |
|------------|----------------|------------|-----------------------|-----------|--------|----------|-------------------|--------|----------------|-----|--|
| DIAN | AETER PRESSURE | | Minim | um Torque | Maximu | m Torque | Minimum | Torque | Maximum Torque | | |
| Inches | mm | | LbfS | NSm | LbfSin | NSm | LbfSin | NSm | LbfSin | NSm | |
| | | | in | | | | | | | | |
| 3/8 | 9.5 | CL125, 150 | 27 | 3 | 40 | 5 | 13 | 1 | 19 | 2 | |
| | | CL250, 300 | 36 | 4 | 53 | 6 | 17 | 2 | 26 | 3 | |
| | | CL600 | 49 | 6 | 73 | 8 | 23 | 3 | 35 | 4 | |
| 1/2 | 12.7 | CL125, 150 | 44 | 5 | 66 | 8 | 21 | 2 | 31 | 4 | |
| | | CL250, 300 | 59 | 7 | 88 | 10 | 28 | 3 | 42 | 5 | |
| | | CL600 | 81 | 9 | 122 | 14 | 39 | 4 | 58 | 7 | |
| 3/4 | 19.1 | CL125, 150 | 99 | 11 | 149 | 17 | 47 | 5 | 70 | 8 | |
| | | CL250, 300 | 133 | 15 | 199 | 23 | 64 | 7 | 95 | 11 | |
| | | CL600 | 182 | 21 | 274 | 31 | 87 | 10 | 131 | 15 | |
| 1 | 25.4 | CL300 | 226 | 26 | 339 | 38 | 108 | 12 | 162 | 18 | |
| - | 23.4 | CL600 | 310 | 35 | 466 | 53 | 149 | 17 | 223 | 25 | |
| 1 1/4 | 21.9 | CL300 | 318 | 36 | 477 | 54 | 152 | 17 | 228 | 26 | |
| 1-1/4 | 51.0 | CL600 | 437 | 49 | 655 | 74 | 209 | 24 | 314 | 36 | |

Recommended Torque for Packing Flange Nuts

PACKING ARRANGEMENTS

CVS PTFE Packing Arrangements:



Double Arrangement

PACKING ARRANGEMENTS

CVS PTFE/Composition Packing Arrangements:



TRIM MAINTENANCE

*Follow proper safety and lockout procedures prior to any inspection or maintenance to avoid personal injury.

Disassembly:

- 1. Ensure control valve has been properly isolated from line pressure and pressure has been released from both sides of the valve. Disconnect actuator supply pressure.
- 2. Disconnect the actuator stem connector and remove the actuator locknut that secures the actuator to the valve. The actuator may now be lifted from the valve.
- 3. Remove the nuts that secure the bonnet flange
- 4. Lift the bonnet, valve plug and stem out as one assembly. Pay attention to not damage the outer portion of the cage, sealing or seating as surface nicks or damage may cause leakage.
- 5. Loosen off the packing flange nuts, and take the valve stem and plug out through the bottom of the bonnet. Remove the cage and seat components from the valve plug and stem. Should the stem show signs of wear or damage which require replacement, remove the drive pin securing the stem and plug, and unscrew the stem from the plug.
- 6. Internal components of the bonnet may now be disassembled for inspection or replacement as required.
- 7. For Standard CVS Series YD Replace the cage seal, seal ring, and backup ring as part of an assembly group.
- 8. The remaining trim components may now be removed and replaced as required after inspection.

Assembly:

CVS Series YD - Standard

- 1. Prior to assembly, ensure all is clear and clean of debris. Use a cloth to wipe all sealing surfaces. Use new gaskets, seals, and shim when reassembling.
- 2. Install Seat Ring Gasket, then set the Seat Ring on top of the Seat Ring Gasket.
- 3. Place the Lower Cage into the valve. Narrow end of the cage should point downward, ensure the cage fits over the raised portion of the seat ring.
- 4. Place O-Ring cage seal over the bottom of the upper cage, into the cage groove.
- 5. The Backup Ring, and Seal Ring may now be placed into the inner groove of the upper cage.
- 6. If installing a new Stem, screw the Stem into the Valve Plug until tight to the Valve Plug.
- 7. Locate the pin hole in the Valve Plug in order to drill a hole into the stem and secure with drive pin.
- 8. Tap a new Drive Pin into the plug and stem in order to secure.
- 9. Set the Upper Cage over the Plug and Stem Assembly. Pay attention to not damage the Seal Ring.
- 10. Place the complete assembly into the Valve. Use a steady pressure to the top of the cage for its position inside the valve. Ensure the upper cage rests into the lower cage and the cage seal did not get damaged.
- 11. Install the Spiral Wound Gasket, Shim, and Bonnet Gasket over the Upper Cage
- 12. Mount the Bonnet on the Valve. If equipped with a lubricator or pipe plug, install so the pipe plug or lubricator is parallel with the pipeline.
- 13. Use an appropriate lubricant/anti seize on the valve stud bolts. Install Valve Stud Nuts onto the valve studs and follow proper bolting practice. Tightening in a criss cross pattern. Repeat torque procedure for a proper seal until none of the nuts will continue to tighten to recommended torque values.
- 14. Mount the Actuator to the Bonnet and make up the stem connection. Reconnect supply as required.

| Valve Series | Stem Connection - Inch (mm) | Drill Size - Inch |
|-------------------------|-----------------------------|-------------------|
| | 3/8 (9.5) | 3/32 |
| Carias VD and Carias VC | 1/2 (12.7) | 1/8 |
| Series YD and Series YS | 3/4 (19.1) | 3/16 |
| | 1 (25.4) | 1/4 |

Valve Plug and Stem - Pin Drill Size

Assembly:

CVS Series YD – High Temp

- 1. Prior to assembly, ensure all is clear and clean of debris. Use a cloth to wipe all sealing surfaces. Use new gaskets, seals, and shim when reassembling.
- 2. Install Seat Ring Gasket, then set the Seat Ring on top of the Seat Ring Gasket. Install the Spiral Wound Spring.
- 3. Place the Lower Cage into the valve. Narrow end of the cage should point downward, ensure the cage fits over the raised portion of the seat ring.
- 4. Install one of the Retaining Ring Gaskets into the Valve
- 5. If installing a new Stem, screw the Stem into the Valve Plug until tight to the Valve Plug.
- 6. Locate the pin hole in the Valve Plug in order to drill a hole into the stem and secure with drive pin.
- 7. Tap a new Drive Pin into the plug and stem in order to secure.
- 8. Set the Seal Ring Retainer into the valve. Set the valve plug assembly into the retainer
- 9. Place the Seal Rings over the Valve Plug. The Seal Rings should rest against the Retaining Ring.
- 10. The Seal Rings have a cut through the cross section, orientate the cut through at 180 degrees from each other in order for a proper seal.
- 11. Install the remaining Seat Ring Gasket on top of the Retaining Ring.
- 12. Install the Upper Cage into the valve. The raised ring on the bottom of the cage will sit securely in the groove of the seal rings and retaining ring.
- 13. Place the Spiral Wound Gasket, Shim, and Bonnet Gasket over the upper cage.
- 14. Mount the Bonnet on the Valve.
- 15. Use an appropriate lubricant/anti seize on the valve stud bolts. Install Valve Stud Nuts onto the valve studs and follow proper bolting practice. Tightening in a criss cross pattern. Repeat torque procedure for a proper seal until none of the nuts will continue to tighten to recommended torque values.
- 16. Mount the Actuator to the Bonnet and make up the stem connection. Reconnect supply as required.

| Valve Size | Recommended Bolt Torque lbf ft (Nm) |
|------------|-------------------------------------|
| 2 | 71 (96) |
| 3 | 125 (169) |
| 4 | 200 (271) |
| 6 | 405 (549) |

Bolt Torque for Body to Bonnet B7 (recommended)

Assembly:

CVS Series YS

- 1. Prior to assembly, ensure all is clear and clean of debris. Use a cloth to wipe all sealing surfaces. Use new gaskets, and shim when reassembling.
- 2. Install Seat Ring Gasket, then set the Lower Seat Ring on top of the Seat Ring Gasket. Install the Spiral Wound Spring
- 3. Place the Lower Cage into the valve. Narrow end of the cage should point downward, ensure the cage fits over the raised portion of the seat ring.
- 4. Install the Upper Seat Ring Gasket into the valve.
- 5. If installing a new Stem, screw the Stem into the Valve Plug until tight to the Valve Plug.
- 6. Locate the pin hole in the Valve Plug in order to drill a hole into the stem and secure with drive pin.
- 7. Tap a new Drive Pin into the plug and stem in order to secure.
- 8. Set the Upper Cage over the Plug and Stem Assembly. Pay attention to not damage the Seal Ring.
- 9. Place the complete assembly into the Valve. Use a steady pressure to the top of the cage for its position inside the valve. Ensure the upper cage rests into the lower cage and the cage seal did not get damaged.
- 10. Install the Spiral Wound Gasket, Shim, and Bonnet Gasket over the Upper Cage
- 11. Mount the Bonnet on the Valve. If equipped with a lubricator or pipe plug, install so the pipe plug or lubricator is parallel with the pipeline.
- 12. Use an appropriate lubricant/anti seize on the valve stud bolts. Install Valve Stud Nuts onto the valve studs and follow proper bolting practice. Tightening in a criss cross pattern. Repeat torque procedure for a proper seal until none of the nuts will continue to tighten to recommended torque values.
- 13. Mount the Actuator to the Bonnet and make up the stem connection. Reconnect supply as required.



| ITEM | DESCRIPTION | ITEM | DESCRIPTION |
|------|------------------------|------|------------------------|
| 1 | Body | 13 | Nut |
| 2 | Lower Seat Ring Gasket | 14 | Stud |
| 3 | Lower Seat Ring | 15 | Bonnet |
| 4 | Plug and Stem Assembly | 16 | Packing Set Assembly |
| 5 | Lower Cage | 14 | Flow Direction Plate |
| 6s | Upper Cage | 15 | 3/32 Rivet, x 3/16 |
| 10 | Cage Gasket | 20 | Spiral Gasket |
| 11 | Shim | 21 | Upper Seat Ring Gasket |
| 12 | Bonnet Gasket | 23 | Upper Seat Ring |

DIMMENSIONS



| | | | | | | | | | DIMENS | SION | | | | | | | | |
|------------|-----------------|--------------|--------------|---------------------|---------------|-----------------------|---------------|-----------------------------|---------------|---------------|----------------------------------------|--------------|---------------|----------------------------------------|-------------|--------------|---------------|---------------|
| | | | | Α | | | | | | | | | D | | | | | |
| | | | | | | | | | STANDAR | D BONNE | т | | | EXTE | NSION BO | ONNET | | |
| VALVE SIZE | | VALVE R | ATING EI | ND CONNECTION STYLE | | | | STEM DIAMETER, MM (INCH) | | | STYLE 1 STEM DIAMETER, MM (INCH) | | | STYLE 2 STEM DIAMETER, MM (INCH) | | | | |
| | SCREWD & SWE | CL 150 RF | CL150 RTJ | CL 300 RF | CL 300 RTJ | CL 600 RF & BWE | CL 600 RTJ | 9.5 (3/8) | 12.7 (1/2) | 19.1 (3/4) | 25.4 (1) | 9.5 (3/8) | 12.7 (1/2) | 19.1 (3/4) | 25.4 (1) | 9.5 (3/8) | 12.7 (1/2) | 19.1 (3/4) |
| | | | | | | | | | MM | | | | | | | | | |
| 2 | 285.8 | 254.0 | 266.7 | 266.7 | 282.4 | 285.8 | 289.1 | | 171.5 | 168.1 | | | 273.1 | 277.9 | | | 471.1 | 468.4 |
| 3 | 5 | 298.5 | 311.1 | 317.5 | 333.2 | 336.6 | 339.9 | | 195.3 | 192.0 | | | 296.9 | 301.8 | | | 500.1 | 505.0 |
| 4 | | 352.6 | 365.3 | 368.3 | 384.0 | 393.7 | 396.7 | | 228.6 | 225.6 | | | 330.2 | 335.0 | | | 533.4 | 525.5 |
| 6 | | 450.9 | 463.6 | 472.9 | 489.0 | 508.0 | 511.0 | | | 242.8 | 287.3 | | | 349.3 | 419.1 | | | 434.9 |
| | | | | | | , | | in | ches | | | | | | | | | , |
| 2 | 11.25 | 10.00 | 10.50 | 10.50 | 11.12 | 11.25 | 11.38 | | 6.75 | 6.62 | | | 10.75 | 10.94 | | | 18.56 | 18.44 |
| 3 | | 11.75 | 12.25 | 12.50 | 13.12 | 13.25 | 13.38 | | 7.69 | 7.56 | | | 11.69 | 11.88 | | | 19.69 | 19.88 |
| 4 | | 13.88 | 14.38 | 14.50 | 15.12 | 15.50 | 15.62 | | 9.00 | 8.88 | | | 13.00 | 13.19 | | | 21.00 | 20.69 |
| 6 | | 17.75 | 18.25 | 18.62 | 19.25 | 20.00 | 20.12 | | | 9.56 | 11.31 | | | 13.75 | 16.50 | | | 21.06 |

Standard Packing Kits (non live load)

| Stem Diameter – In (mm) | 3/8 (9.5) | 1/2 (12.7) | 3/4 (19.1) | 1 (25.4) |
|---------------------------------|-------------|--------------|-------------|-------------|
| Yoke Boss Diameter In (mm) | 2-1/8 (54) | 2-13/16 (71) | 3-9/16 (90) | 5 (127) |
| PTFE | RPACKX00012 | RPACKX00022 | RPACKX00032 | RPACKX00342 |
| Double PTFE | RPACKX00042 | RPACKX00052 | RPACKX00062 | RPACKX00362 |
| PTFE/Comp | RPACKX00072 | RPACKX00082 | RPACKX00092 | |
| Single Graphite Ribbon/Filament | RPACKX00102 | RPACKX00112 | RPACKX00122 | |

Gasket Kits

| Valve Size | Series YD | Series YS |
|------------|-------------|-------------|
| | Part Number | Part Number |
| 2 | RGASKETXB72 | RGASKETXC32 |
| 3 | RGASKETXB82 | RGASKETXC42 |
| 4 | RGASKETXB92 | RGASKETXC52 |
| 6 | RGASKETXC12 | RGASKETXC62 |

Valve Plug and Stem Assembly – Plain Bonnet

| Value Size | Stem D | iameter | Series YD |) Standard | Series YS | | |
|------------|--------|---------|-------------|-----------------|-------------|-------------|--|
| Valve Size | In | n mm | | CF8M 316 SST | 416 SST | 316 SST | |
| 2 | 1/2 | 12.7 | | 20A3369X122 | 10A3373X242 | | |
| 3 | 1/2 | 12.7 | 20A3422X102 | 20A4322X072 | | | |
| | 1/4 | 19.1 | 20A3422X102 | 20A3422X122 | | | |
| 4 | 1/2 | 12.7 | 20A3454X102 | 20A3464X112 | 20A3469X102 | 20A3469X112 | |
| | 1/4 | 19.1 | 20A3465X102 | 20A3465X112 | | | |
| 6 | 3/4 | 19.1 | 20A3507X092 | 20A3507X112 | | | |

| | | Series YS Upper Cage | Series YD l | Jpper Cage |
|--|------------|----------------------|-------------|-------------|
| | Valve Size | CF8M | 17-4PH SST | CF8M |
| | | (316SST) | | (316SST) |
| | 2 | | 20A3376X012 | 20A3376X022 |
| | 3 | | 20A3431X012 | 20A3431X022 |
| | 4 | 2U740748932 | 20A3473X012 | 20A3476X022 |
| | 6 | | 20A3516X012 | 20A3522X022 |

Upper Cage – Series YD/YS, Standard

Lower Cage – Series YD/YS Standard

| Valve Size | Lower Cage All Trim Styles | | | | | |
|---------------|-------------------------------|-------------|--|--|--|--|
| | 47.400.007 | CF8M | | | | |
| | 17-4PH SST | (316SST) | | | | |
| 2 | 20A3381X012 | 20A3381X022 | | | | |
| 3 | 20A3434X012 | 20A3434X022 | | | | |
| 4 | 20A3476X012 | 20A3476X022 | | | | |
| 6 | 20A3522X012 | 20A3522X022 | | | | |

Upper and Lower Seat Rings

| Valve Size | Upper Seat Ring | | Lower Seat Ring | | | |
|---------------|-----------------|-------------|----------------------|-------------|----------------------------|--|
| | Series YS | | Series YD - Standard | | Series YS and YD High Temp | |
| | 416 SST | 316 SST | 416 SST | 316 SST | 416 SST | |
| 2 | 10A3393X012 | | | | 10A3391X012 | |
| 3 | | | 10A3446X012 | 10A3446X022 | | |
| 4 | 10A3489X012 | 10A3489X022 | 103488X012 | 10A3488X022 | | |
| 6 | | | 11A9076X012 | 11A9076X022 | | |

Seals – Series YD only – Seal Ring/Backup Ring

| | Series YD - Standard | | | | |
|-------|----------------------|--------------|--|--|--|
| Value | Seal Ring | Backup Ring | | | |
| valve | | Fluorocarbon | | | |
| 3120 | PTFE | 0 to 400°F | | | |
| | | -18 to 204°C | | | |
| 2 | 10A3388X012 | 10A3389X032 | | | |
| 3 | 10A3442X012 | 10A34443X032 | | | |
| 4 | 10A3484X012 | 10A3485X032 | | | |
| 6 | 10A3530X012 | 10A3531X032 | | | |

PARTS

Packing Box Parts

| Description | | | Stem Diameter - In (mm) | | | |
|-------------------|---------------------|-----------------|-------------------------|------------|------------|-------------|
| | | | 3/8 (9.5) | 1/2 (12.7) | 3/4 (19.1) | 1 (25.4) |
| | PTFE Single Packi | ng Set | 1R2900 | 1R2902 | 1R2904 | 1R2906 |
| | (1 req'd for single | , 2 for double) | | | | |
| DTEE | Spring, SS (for sin | gle only) | 1F1254370 | 1F2553702 | 1F1256 | 1D582937012 |
| PIFE | Lantern Ring SS | | 1F364135072 | 1J9623 | 0N0284 | 0U99735072 |
| V-Ring Docking | (for double only) | | | | | |
| Packing | Qty Req'd | Double | 1 | 2 | 1 | 1 |
| | Special Washer SS | | 1F12523604 | 1F2513604 | 1F1250 | 1H982236042 |
| | (for single only) | | | | | |



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