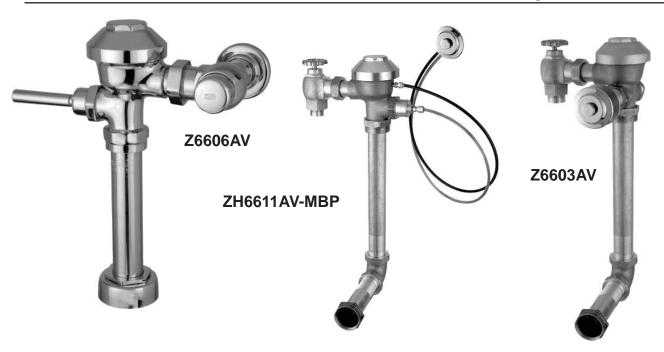


AquaVantage® AV® **Penal Series**

Hydraulic-Operated, **Concealed and Exposed Flush Valve**

Part Identification Guide

Patented and Patents Pending



Exposed Penal	Hydraulic-Operated	Concealed Penal
Systems	Penal Systems	Systems
Z6606AV	ZH6603AV-MBP	Z6601AV
Z6610AV	ZH6606AV-MBP	Z6603AV
Z6614AV	ZH6609AV-MBP	Z6609AV
	ZH6611AV-MBP	Z6611AV
	ZH6613AV-MBP	Z6613AV
		Z6621AV

NOTICE: READ ENTIRE MANUAL PRIOR TO INSTALLING PRODUCT.

★ WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

⚠ ADVERTENCIA: Cáncer y daño reproductivo - www.P65Warnings.ca.gov

A AVERTISSEMENT: Cancer et effets néfastes sur la reproduction - www.P65Warnings.ca.gov

LIMITED WARRANTY

All goods sold hereunder are warranted to be free from defects in material and factory workmanship for a period of three years from the date of purchase. Decorative finishes warranted for one year. We will replace at no costs goods that prove defective provided we are notified in writing of such defect and the goods are returned to us prepaid at Sanford, NC, with evidence that they have been properly maintained and used in accordance with instructions. We shall not be responsible for any labor charges or any loss, injury or damages whatsoever, including incidental or consequential damages. The sole and exclusive remedy shall be limited to the replacement of the defective goods. Before installation and use, the purchaser shall determine the suitability of the product for his intended use and the purchaser assume all risk and liability whatever in connection therewith. Where permitted by law, the implied warranty of merchantability is expressly excluded. If the products sold hereunder are "consumer products," the implied warranty of merchantability is limited to a period of three years and shall be limited solely to the replacement of the defective goods. All weights stated in our catalogs and listed are approximate and are not quaranteed. are approximate and are not guaranteed.

NOTE: The information in this manual is subject to change at any time without notice. Installations may be performed at different times of construction by different individuals. For this reason, these instructions should be left on-site with the facility or maintenance manager.

Zurn Industries, LLC

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Rev.

Date: 7/26/2018 C.N. No. SAN008311

Prod. | Dwg. No.

Z6681AV

AquaVantage® Hydraulic-Operated Repair Kits

47. Piston Assembly

48. Actuator Body

49. Mounting Plate

53. Large Push Button

54. Escutcheon Setscrew

51. Spring for Large Push Button

52. Spacer for Large Push Button

55. Escutcheon for Large Push Button

50. Securing Nut

56. Filter

Parts Identification

- 1. Chrome Cover Plate
- 2. Return Cover Tube
- 3. Supply Cover Tube
- 4. Cover Tube Ring with Setscrew
- 5. Cover Tube Ring with Setscrew
- 6. Handle Nut

7. Hydraulic Plunger Assembly

8. 1/16" Compression Fitting

- 9. Gasket
- 10. Valve Body Cover
- 11. Plastic Cover
- 12. Trip Mechanism
- 13. Diaphragm Repair Kit
- 14. Valve Body
- 15. Vacuum Breaker Friction Washer
- 16. Vacuum Breaker Insert
- 17. Vacuum Breaker Duckbill
- 18. Vacuum Breaker Tube
- 19. Vacuum Breaker Tube Nut
- 20. Spud Nut
- 21. Spud Friction Washer
- 22. Spud Sleeve
- 23. Spud Escutcheon
- 24. Tailpiece
- 25. Snap Ring
- 26. Tailpiece O-Ring
- 27. Locking Nut
- 28. Setscrew for Cast Wall Flange
- 29. Cast Wall Escutcheon
- 30. Supply Cover Tube
- 31. Sweat Solder Adaptor
- 32. Stop Body
- 33. Piston Seal
- 34. Piston
- 35. Stop Spring
- 36. Guide O-Ring
- 37. Piston Guide
- 38. Guide Holder
- 39. Adjusting Screw
- 40. Stop Cap
- 41. Snap Cap Screw Cover
- 41. Shap Cap Screw Cover
- 42. Vandal-Resistant Control Stop Cover
- 43. Setscrew for Control Stop Cover

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At. 1/4" Return Tube

45. 1/4" Supply Tube

46. 1/8" Compression Fitting

Covers and Repair Kits	Product No.
Outside Cover – CP – Item 10	P6000-LL
Inside Cover – Item 11	P6000-L
Low Consumption Closet Kit – 1.6 gal. flush	P6000-ECA-WS1
Water Saving Closet Kit – 3.5 gal. flush	P6000-ECA-WS
Full Flow Closet Kit – 4.5 gal. flush	P6000-ECA-FF
Low Consumption Urinal Kit – 1.0 gal. flush	P6000-EUA-WS1
Water Saving Urinal Kit – 1.5 gal. flush	P6000-EUA-WS
Full Flush Urinal Kit – 3.0 gal. flush	P6000-EUA-FF

Parts – Inside Parts	Product No.
Urinal Relief Valve – Item 12 P6000-EU13	
Closet Relief Valve – Item 12 P6000-EC13	

Handle Assembly and Repair Kits	Product No.
Hydraulic Large Push Button Assembly, Fixture	PH6000-HYL3-FW
Wall	
Hydraulic Large Push Button Assembly, Side	PH6000-SHYL3-SW
Wall	
Hydraulic Metal Push Button Assembly	PH6000-HYL-MBP
Hydraulic Metal Push Button Assembly for Penal	PH6000-HYLP-MBP
Use	
Repair Kit for Hydraulic Actuator	PH6000-HYA11

Control Stop Repair Kit and Parts	Product No.
Control Stop Repair Kit for 1" and 3/4",	P6000-D-SD
Includes Items 33-39	
Seal Seat for 1" and 3/4", Includes Item 33	P6000-D42
VP Control Stop Repair Kit for 1" and 3/4",	P6000-D-VP
Includes Items 33-39	
Sweat Solder Connection with Cast Wall Flange,	P6000-YB
Includes Items 29-31	

Adjustable Tailpieces	Product No.
Adjustable Tailpiece for Standard Flush Valve,	P6000-J1
Includes Items 24-26	
Tailpiece Coupling Assembly, Includes Items	P6000-K
25-27	
Tailpiece Locking Ring, Includes Item 25	P6000-C30
Tailpiece O-Ring, Includes Item 26	P6000-C31
Coupling Nut, Includes Item 27	P6000-C32

Flush Connections and Spud Coupling Kits	Product No.
Flush Tube Assembly for Flush Valves, Includes	P6000-A
Items 15-19. Specify diameter and length.	
Vacuum Breaker Repair Kit, Includes Items	P6000-B
15-17	
Spud Coupling Assembly, Includes Items 20-23.	P6000-H
Specify size.	

Note: See AquaVantage Hydraulic Flush Valve Section for Installation Instructions, FV241.

AquaVantage® Concealed Repair Kits

Parts Identification 1. Wall Escutcheon 2. Optional 1" Metal Push Button 3. Handle 4. Optional 3" Metal Push Button 5. Sleeve/Socket 6. Adjusting Nut 7. Optional Bell Nut 8. Handle Nut 9. Push Rod/Filler Rod 10. Actuator Rod 11. Handle O-Ring 12. Handle Spring 13. Handle Seal Retainer 14. Handle Seal

- 15. Gasket 16. Valve Body Cover
- 17. Plastic Cover 18. Trip Mechanism
- 19. Diaphragm Kit 20. Valve Body
- 21. Solid Gasket 22. Solid Handle Nut
- 23. Wheel Handle Screw
- 24. Wheel Handle
- 25. Stop Cap
- 26. Adjusting Screw
- 27. Guide Holder 28. Piston Guide
- 29. Guide O-Ring
- 30. Stop Spring
- 31. Piston 32. Piston Seal
- 33. Stop Body
- 34. Locking Nut
- 35. Tailpiece O-Ring 36. Snap Ring
- 37. Tailpiece
- 38. Vacuum Breaker Insert
- 39. Vacuum Breaker Duckbill
- 40. Vacuum Breaker Tube

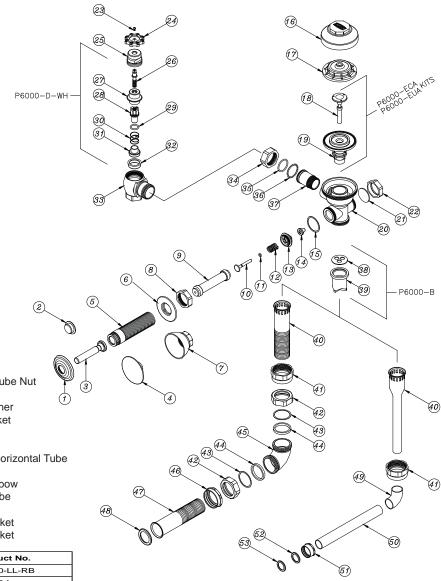
- 41. Vacuum Breaker Tube Nut
- 42. Coupling Nut
- 43. Spud Friction Washer 44. Spud Rubber Gasket
- 45. 90 Degree Elbow
- 46. Spud Nut
- 47. Flanged/Scored Horizontal Tube
- 48. P30 Flat Gasket
- 49. 3/4" 90 Degree Elbow
- 50. 3/4" Horizontal Tube
- 51. 3/4" Spud Nut
- 52. Spud Friction Gasket
- 53. Spud Rubber Gasket

Covers and Repair Kits	Product No.
Outside Cover - RB - Item 16	P6000-LL-RB
Inside Cover - Item 17	P6000-L
Low Consumption Closet Kit - 1.6 gal. flush	P6000-EC-WS1
Water Saving Closet Kit - 3.5 gal. flush	P6000-EC-WS
Full Flow Closet Kit - 4.5 gal. flush	P6000-EC-FF
Low Consumption Urinal Kit - 1.0 gal. flush	P6000-EU-WS1
Water Saving Urinal Kit - 1.5 gal flush	P6000-EU-WS
Full Flush Urinal Kit - 3.0 gal. flush	P6000-EU-FF

Repair Parts - Inside Parts	Product No.
Urinal Relief Valve - Item 18	P6000-EU13
Closet Relief Valve - Item 18	P6000-EC13

Aquaflush Rebuild Kits	Product No.
Closet and Urinal Rebuild Kits Include	P6000-ECA-WS-RK
Items 10-15, 18, 19, 35, 38, 39	P6000-ECA-WS1-RK
	P6000-EUA-WS-RK
	P6000-EUA-WS1-RK
	-
Handle Assembly and Repair Kits	Product No.
Concealed Valve Actuator	P6000-N-
(Spec. Type and 'L' Dim.)	P6000-NL-

Handle Assembly and Repair Kits	Product No.
Concealed Valve Actuator	P6000-N-
(Spec. Type and 'L' Dim.)	P6000-NL-
	P6000-NL3-
Handle Repair Kit Includes Items 10-15	P6000-NK
Handle Seal Includes Item 14	P6000-M9
Handle Gasket Includes Item 15	P6000-M10



Control Stop Repair Kit and Parts	Product No.
Control Stop Repair Kit for 1" and 3/4",	P6000-D-SD
Includes Items 26-32	
Seal Seat for 1" and 3/4", Includes Item 26	P6000-D42
Sweat Solder Connection	P6000-YBA

Adjustable Tailpieces	Product No.
Adjustable Tailpiece for Standard Flush Valve	P6000-J1-RB
Includes Items 28-31	
Tailpiece Locking Ring Includes Item 29	P6000-C30
Tailpiece O-Ring Includes Items 30	P6000-C31
Coupling Nut Includes Item 31	P6000-C32-RB

Flush Connections and Spud Coupling Kits	Product No.
Flush Tube Assembly for Concealed Flush Valves	P6000-Q
Refer to Section Q in Aqua Parts Guide	
Specify 'L' Dim. and Valve Used	
Vacuum Breaker Repair Kit Includes Items 19-21	P6000-B
Spud Coupling Assembly (Specify Size)	P6000-HN

Note: See AquaVantage Manual Flush Valve Section for Installation Instructions, FV212.

AquaVantage® Exposed Repair Kits

Parts Identification

- 1. Handle Nut
- 2. Handle Sleeve and Insert
- 3. Low Force/ADA Compliant Handle
- 4. Actuator Rod
- 5. Handle O-Ring
- 6. Handle Spring
- 7. Handle Retainer
- 8. Handle Seal Retainer
- 9. Gasket
- 10. Valve Body Cover
- 11. Plastic Cover
- 12. Trip Mechanism
- 13. Diaphragm Repair Kit
- 14. Valve Body
- 15. Vacuum Breaker Friction Washer
- 16. Vacuum Breaker Insert
- 17. Vacuum Breaker Duckbill
- 18. Vacuum Breaker Tube
- 19. Vacuum Breaker Tube Nut
- 20. Spud Nut
- 21. Spud Friction Washer
- 22. Spud Sleeve
- 23. Spud Escutcheon
- 24. Tailpiece
- 25. Snap Ring
- 26. Tailpiece O-Ring
- 27. Locking Nut
- 28. Setscrew for Cast Wall Flange
- 29. Cast Wall Escutcheon
- 30. Supply Cover Tube
- 31. Sweat Solder Adapter
- 32. Stop Body
- 33. Piston Seal 34. Piston
- 35. Stop Spring

- 37. Piston Guide
- 38. Guide Holder
- 39. Adjusting Screw
- 40. Stop Cap
- 41. Snap Cap Screw Cover
- 42. Vandal-Resistant Control Stop Cover

(2)

(20)

21)

36. Guide O-Ring 43. Setscrew for Control Stop Cover

Covers and Repair Kits	Product No.
Outside Cover - CP – Item 10	P6000-LL
Inside Cover – Item 11	P6000-L
Low Consumption Closet Kit – 1.6 gal. flush	P6000-ECA-WS1
Water Saving Closet Kit – 3.5 gal. flush	P6000-ECA-WS
Full Flow Closet Kit – 4.5 gal. flush	P6000-ECA-FF
Low Consumption Urinal Kit – 1.0 gal. flush	P6000-EUA-WS1
Water Saving Urinal Kit – 1.5 gal. flush	P6000-EUA-WS
Full Flush Urinal Kit – 3.0 gal. flush	P6000-EUA-FF

Repair Parts – Inside Parts	Product No.
Urinal Relief Valve – Item 12	P6000-EU13
Closet Relief Valve – Item 12	P6000-EC13
AquaVantage Rebuild Kits	Product No.
Closet and Urinal Rebuild Kits Include	P6000-ECA-WS-RK
Items 4-9, 12, 13, 15-17, 26	P6000-ECA-WS1-RK
	P6000-EUA-WS-RK
	P6000-EUA-WS1-RK

Handle Assembly and Repair Kits	Product No.
ADA Handle Assembly (Side), Includes Items 2-9	P6000-M-ADA
Handle Repair Kit (Side), Includes Items 4-9	P6000-MK
Handle Seal, Includes Item 8	P6000-M9
Handle Gasket, Includes Item 9	P6000-M10
Repair Kit for Front Operation - Exposed,	P6000-MHK
Includes Items 4-9	
Handle Assembly (Front) Includes Items 2-9	P6000-MH

Control Stop Repair Kit and Parts	Product No.
Control Stop Repair Kit for 1" and 3/4",	P6000-D-SD
Includes Items 33-39	
Seal Seat for 1" and 3/4", Includes Item 33	P6000-D42
VP Control Stop Repair Kit for 1" and 3/4",	P6000-D-VP
Includes Items 33-39	
Sweat Solder Connection with Cast Wall Flange,	P6000-YB
Includes Items 29-31	

P6000-B

P6000-H

\$31 | \$32 | \$33 | \$4 | \$35 | \$60 | \$37 | \$38 | \$39 | \$40 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$41 | \$

Adjustable Tailpieces	Product No.
Adjustable Tailpiece for Standard Flush Valve,	P6000-J1
Includes Items 24-26	
Tailpiece Coupling Assembly, Includes Items 25-27	P6000-K
Tailpiece Locking Ring, Includes Item 25	P6000-C30
Tailpiece O-Ring, Includes Item 26	P6000-C31
Coupling Nut. Includes Item 27	P6000-C32

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Flush Connections and Spud Coupling Kits	Product No.
Flush Tube Assembly for Flush Valves, Includes	P6000-A
Items 15-19. Specify diameter and length.	
Vacuum Breaker Repair Kit, Includes Items 15-17	P6000-B
Spud Coupling Assembly, Includes Items 20-23.	P6000-H
Specify size.	1

Note: See AquaVantage Manual Flush Valve Section for Installation Instructions, FV211.