

Maintenance Guide



Royal and Regal Series 900™ Hydraulic Flushing System Repair and Maintenance Guide

Royal Models

PARTS LIST

Item	Code No.	Part No.	Description
1.	0301173	A-72	RB Cover
2.	0301168	A-71	Inside Cover
3.	SEE THE INSIDE PARTS KIT CHART BELOW		
4.	3323182	V-651-A	Vacuum Breaker Repair Kit
5.	0308690	H-550	RB Tailpiece Coupling
6.	0308802	H-551-A	RB Adjustable Tailpiece, 2-1/16" (52 mm)
7A.	5308696	H-553	O-ring – 24 per package
7B.	5308381	H-552	Locking ring – 12 per package
8.	0388010	H-730-A	RB Wheel Handle Bak Chek® Control Stop
9A.	0308855	H-541-A	1" Wheel Handle Repair Kit for H-730-A Control Stop
9B.	0308858	H-543-A	3/4" Wheel Handle Repair Kit for H-730-A Control Stop
10.	0308919	H-558-A	Wheel Handle
11A.	0308615	H-623	1" RB Bonnet
11B.	0208083	H-623	3/4" RB Bonnet
12.	0323188	V-500-AA	Royal Vacuum Breaker Flush Connection (specify length and size)
13.	0306619	F-2-AA	1-1/2" (38 mm) RB Couplings (2 each), Friction Rings (2 each), and Rubber Gaskets (2 each)
14.	0206146	F-21	RB Elbow
15.	0306087	F-2-A	1-1/2" (25 mm) RB Coupling, Friction Ring, and Rubber Gasket
16.	0396161	F-100	RB Flared End Flush Connection (specify length and size)
17.	0306366	F-15-A	3/4" (19 mm) RB Elbow Flush Connection with Coupling and Rubber Gasket (specify length)
18.	0306054	F-2-A	3/4" (19 mm) RB Coupling, Friction Ring, and Rubber Gasket
19.	0318024	HY-25	RB Valve Actuator Housing only
20.	0318023	HY-24	Tube Fitting (2 required)
21.	0318033	HY-35	Tube Fitting Nut (2 required)
22.	0318093	HY-30	1/4" (6 mm) x 48" (1219 mm) Connecting Tubes (2 required)
23.	0301082PO	A-6	RB Handle Coupling Nut
24.	3318005	HY-109-A	Actuator Housing Assembly (includes Items 19,20,21 and 23)
25.	3318001	HY-83-A	Actuator Cartridge Assembly

ABBREVIATIONS:

CP = Chrome plated
 RB = Rough brass
 gpf = gallons per flush
 Lpf = Liters per flush
 LC = Low consumption
 WH = Wheel handle

† Part number varies with model variation. Consult factory.

Hydraulic Inside Parts Repair Kits		
Code No.	Part No.	Description
3318011	HY-1101-A	Hydraulic Royal 1.6C
3318012	HY-1102-A	Hydraulic Royal 3.5C
3318013	HY-1103-A	Hydraulic Royal 2.4C
3318014	HY-1106-A	Hydraulic Royal 0.5U
3318015	HY-1107-A	Hydraulic Royal 1.0U
3318016	HY-1108-A	Hydraulic Royal 1.5U

HY-1101-A Shown



Comes with: Diaphragm, Actuator Cartridge Assembly, Tailpiece O-ring and Vacuum Breaker Assembly

Royal — item 3 — Dual Filtered Diaphragm™ Assembly Sold ONLY in ROYAL Performance™ Kits

ROYAL Performance™ KIT includes: Dual Filtered Diaphragm Assembly (item 3);
 High Back Pressure Vacuum Breaker Repair Kit (item 4); and one Tailpiece O-Ring (item 7A)
 Diaphragm Only KIT includes: Dual Filtered Diaphragm Assembly (item 3) ONLY

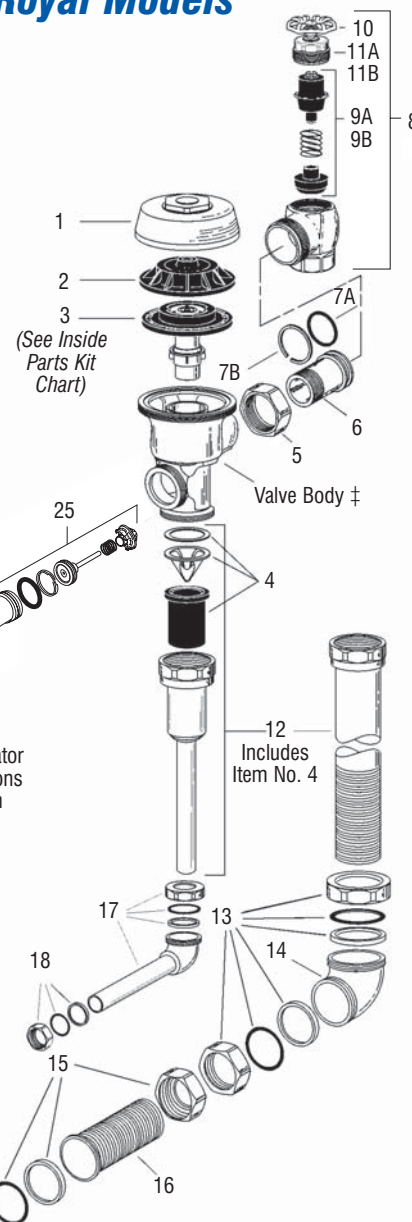
Performance KIT		DIAPHRAGM Only Kit							
	Code No.	Kit No.	Code No.	Kit No.	Flush Volume	Use with	Relief Valve	Refill Head †	Flow Ring
A	3301070	A-1101-A	3301502	A-1041-A	1.6 gpf/6.0 Lpf	Low Consumption Water Closets	Green	Gray	Smooth
B	3301071	A-1102-A	3301501	A-1038-A	3.5 gpf/13.2 Lpf	Water Saver Water Closets	White	Gray	Smooth
C	3301072	A-1103-A	3301505	A-1044-A	2.4 gpf/9.0 Lpf	9 Liter European Water Closets	Blue	Gray	Smooth
D	3301073	A-1106-A	3301504	A-1043-A	0.5 gpf/1.9 Lpf	Wash Down Urinals	Green	Black	Smooth & Slotted
E	3301074	A-1107-A	3301503	A-1042-A	1.0 gpf/3.8 Lpf	Low Consumption Urinals	Green	Black	Slotted
F	3301075	A-1108-A	3301500	A-1037-A	1.5 gpf/5.7 Lpf	Water Saver Urinals	Black	Black	Smooth

† NOTE: Water Closet Refill Heads (Gray) have larger slots than Urinal Refill Heads (Black).

The information contained in this document is subject to change without notice.

Royal & Regal Hydraulic Flushometer M.G. – Rev. 2 (10/08)

Code No. 0816319



To identify the Flush Volume of a DUAL FILTERED DIAPHRAGM ASSEMBLY, look at the color of the Relief Valve, the Refill Head and the shape of Flow Ring.

