



<i>Applications</i>	SRV	ASV	PGV	PGV Jar-Top	HPV	ICV	ICV Filter Sentry™	HBV
Residential	✓	✓	✓	✓	✓			
Commercial/Institutional			✓		✓	✓	✓	✓
Flow Control	✓	✓	✓	✓	✓	✓	✓	✓
Angle Valve Configuration		✓	✓		✓			
High Pressure Systems						✓	✓	✓
Pressure Regulation			✓			✓	✓	✓
Reclaimed Water	✓	✓	✓	✓	✓	✓	✓	✓
Brackish/Algae Contaminated Water							✓	

SRV

Simple operation, reliable performance. The economical residential valve that can handle the toughest conditions.

Who said that dependable performance and affordable pricing were mutually exclusive terms when it comes to residential valves? Hunter makes it possible to get both, along with the type of solid construction you'd expect to cost considerably more. Our SRV features a durable high-grade PVC globe body plus a rugged diaphragm custom-crafted to withstand the challenge of vigorous day-to-day use. In addition, the SRV boasts a diaphragm support to prevent stress failure, an internal manual bleed to keep the valve box dry, and the heavy-duty Hunter solenoid. Plus, to meet the particular needs of each individual system you install, the SRV is available in either flow control or non-flow control models. Built to accommodate a budget as well as it does an irrigation system, that's the simple, reliable Hunter SRV.



The SRV provides reliable on-off control of residential systems, year after year.

FEATURES & BENEFITS



Heavy-duty Hunter solenoid

Provides dependable operation and long life

High grade construction

Made of durable PVC and stainless steel to resist wear

Internal manual bleed

Easy to use and keeps valve box dry

Optional flow control

Adjust the flow of each zone on a system

Optional slip configuration

Permits direct solvent connection to PVC pipe

Rigid diaphragm support

Works to prevent stress failure in tough conditions



FLOW CONTROL: CHOOSE THE OPTION OF EFFICIENCY

If you really want to maximize the efficiency of the SRV, be sure to ask for the flow control option. This convenient addition to the valve makes it possible to fine tune the flow for each zone on an irrigation system, allowing for more effective irrigation of each area of your landscape (and that means healthier turf). Flow control – just another example of how Hunter makes a great product even better.

MODELS

- SRV-100G – 1" plastic globe valve
- SRV-101G – 1" plastic globe valve with flow control
- SRV-100G-S – 1" plastic globe valve, slip inlets
- SRV-101G-S – 1" plastic globe valve with flow control, slip inlets

DIMENSIONS

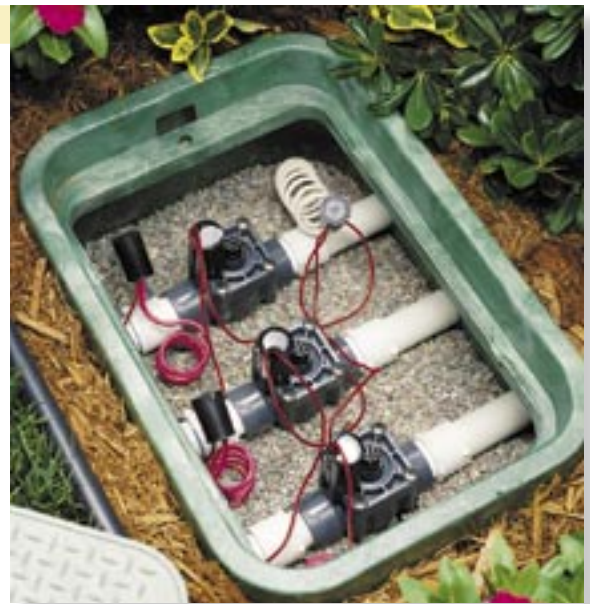
- 5" H x 4½" L x 2½" W (13 cm H x 11 cm L x 6 cm W)
- Female inlet/outlet: 1" NPT, BSP or Slip

OPERATING SPECIFICATIONS

- Flow: 1 to 30 GPM (0.23 to 6.8 m³/hr; 3.8 to 114 l/min)
- Pressure: 20 to 150 PSI (1.4 to 10.3 bars; 138 to 1034 kPa)
- Heavy-duty solenoid: 24VAC, 370mA inrush current, 190mA holding current, 60 cycles; 475mA inrush current, 230mA holding current, 50 cycles

OPTIONS AVAILABLE

- Reclaimed water identification handle for flow control models only (part number 269205)
- DC latching solenoid (part number 458200)
- Solenoid conduit cover (part number 464322)



SRV Pressure Loss in PSI

GPM	1" Globe
1	1.1
5	1.9
10	1.9
15	1.6
20	3.3
25	5.0
30	6.1

Charts based on full-open flow control position.

SRV Pressure Loss in Bars

m ³ /hr	1" Globe
0.23	0.08
1.14	0.13
2.27	0.13
3.41	0.11
4.54	0.23
5.68	0.34
6.81	0.42

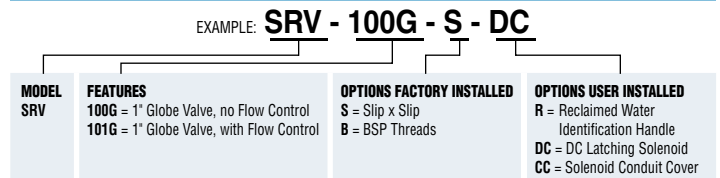
Charts based on full-open flow control position.

SRV Pressure Loss in kPa

l/min	1" Globe
4.0	7.58
19.0	13.10
38.0	13.10
52.0	11.03
76.0	22.75
95.0	34.47
114.0	42.06

Charts based on full-open flow control position.

SPECIFICATION GUIDE



ASV

Atmospheric backflow prevention in an economical valve designed for residential and light commercial use.

With the ASV, irrigation systems that require backflow prevention for every zone can enjoy simple operation and trouble-free performance without the need to install a separate backflow preventer. This convenient all-in-one unit offers a host of features that professionals expect from a Hunter valve – a rugged diaphragm that provides a leak-proof seal, internal bleed for manual operation, stainless steel hardware and springs, stainless steel bonnet screws, and heavy-duty PVC construction that is both corrosion- and UV-resistant. The valve also includes flow control, allowing precise adjustment of the flow plus manual shutoff. For proven reliability in an anti-siphon/electric valve, depend on the ASV.



The ASV slip version permits a quick and easy solvent-weld connection to PVC pipe, eliminating the chance for threaded fitting leaks.

FEATURES & BENEFITS



Heavy-duty Hunter solenoid

Provides dependable operation and long life

High grade construction

Made of durable PVC and stainless steel to resist wear

Internal manual bleed

Easy to use and keeps valve area dry

Standard flow control

Adjust the flow of each zone on a system

Optional slip configuration

Permits direct solvent connection to PVC pipe

Rigid diaphragm support

Works to prevent stress failure in tough conditions

Captive solenoid plunger and anti-siphon poppet

No lost parts during routine service



MODELS

- ASV-075 – ¾" anti-siphon electric valve with flow control, NPT inlets
- ASV-101 – 1" anti-siphon electric valve with flow control, NPT inlets
- ASV-075-S – ¾" anti-siphon electric valve with flow control, Slip inlets
- ASV-101-S – 1" anti-siphon electric valve with flow control, Slip inlets
- AVB-100 – 1" Atmospheric vacuum breaker, NPT inlets

DIMENSIONS

- ASV-075 – 5½" H x 5¾" L x 2½" W (14 cm H x 11 cm L x 6 cm W)
Female inlet/outlet: ¾" NPT or Slip
- ASV-101 – 5½" H x 6¼" L x 2½" W (14 cm H x 15.9 cm L x 6 cm W)
Female inlet/outlet: 1" NPT or Slip
- AVB-100 – 4½" H x 6½" L x 2½" W (11.5 cm H x 15.9 cm L x 6 cm W)
Female inlet/outlet: 1" NPT

OPERATING SPECIFICATIONS

- Flow: 1 to 30 GPM (0.23 to 6.8 m³/hr; 3.8 to 114 l/min)
- Pressure: 20 to 150 PSI (1.4 to 10.3 bars; 138 to 1034 kPa)
- Heavy-duty solenoid: 24VAC, 370mA inrush current, 190mA holding current, 60 cycles; 475mA inrush current, 230mA holding current, 50 cycles
- IAPMO, ASSE 1001 and City of Los Angeles approved

OPTIONS AVAILABLE

- Reclaimed water identification handle (part number 269205)
- DC latching solenoid (part number 458200)
- Solenoid conduit cover (part number 464322)

ASV Pressure Loss in PSI		
GPM	¾"	1"
1	1.0	1.0
5	2.0	2.0
10	2.0	2.0
15	3.0	3.0
20	6.0	6.0
25		6.0
30		9.0

ASV Pressure Loss in Bars		
m³/hr	¾"	1"
0.23	0.07	0.07
1.14	0.14	0.14
2.27	0.14	0.14
3.41	0.21	0.21
4.54	0.41	0.41
5.68		0.41
6.81		0.62

ASV Pressure Loss in kPa		
l/min	¾"	1"
4.0	6.89	6.89
19.0	13.79	13.79
38.0	13.79	13.79
52.0	20.68	20.68
76.0	41.37	41.37
95.0		41.37
114.0		62.05

Charts based on full-open flow control position.

SPECIFICATION GUIDE

EXAMPLE: **ASV - 101 - S - DC**

MODEL	FEATURES	OPTIONS FACTORY INSTALLED	OPTIONS USED INSTALLED
ASV	075 = ¾" Anti-Siphon Valves with Flow Control 101 = 1" Anti-Siphon Valve with Flow Control	S = Slip x Slip (ASV Only)	R = Reclaimed Water Identification Handle DC = DC Latching Solenoid CC = Solenoid Conduit Cover
AVB	100 = 1" Atmospheric Vacuum Breaker		

AVB VACUUM BREAKERS

What do you do if a portion of your irrigated landscape is elevated above your main line (such as a hill or a slope), or if you have an isolated zone or drip applications? Install a heavy-duty AVB downstream of remote control valves to ensure that no unwanted water flows back into your system while it is not in operation.

AVB Pressure Loss in PSI		AVB Pressure Loss in Bars		AVB Pressure Loss in kPa	
GPM	1"	m³/hr	1"	l/min	1" Globe
1	<1.0	0.23	<0.07	4.0	<6.89
5	<1.0	1.14	<0.07	19.0	<6.89
10	1.2	2.27	0.08	38.0	8.27
15	2.2	3.41	0.15	52.0	15.17
20	3.6	4.54	0.25	76.0	24.82
25	5.2	5.68	0.36	95.0	35.85
30	7.0	6.81	0.48	114.0	48.26



PGV

A complete line-up of rugged, professional-grade valves designed to handle the full range of landscape needs.

This hard working, heavy-duty performer offers you the best features of our top-of-the-line valves...more than enough to handle the rigors of whatever your site has to offer. For smaller landscape applications, the PGV is available in four 1" body configurations, in either an angle, globe, male x male or male x barb design. In turn, each model is available as either flow control or non-flow control versions. For larger landscape applications, the PGV comes in both 1½" and 2" globe/angle models (with flow control). All models feature durable high-grade construction and a rugged diaphragm with a support to prevent stress failure.



FEATURES & BENEFITS



Heavy-duty Hunter solenoid

Provides dependable operation and long life

High grade construction, 150 PSI rating

Made of durable materials to resist wear

Internal manual bleed

Easy to use and keeps valve box dry

Flow control with non-rising handle

Adjust the flow of each zone on a system

Rigid diaphragm support

Works to prevent stress failure in tough conditions

Globe and angle configurations

Easy to use in any application

Captive bonnet bolts and solenoid plunger

No lost parts during servicing

Accu-Set™ pressure regulator compatible

Dial setting pressure regulation for precise system control

MODELS

- PGV-100G – 1" plastic globe valve
- PGV-101G – 1" plastic globe valve with flow control
- PGV-100A – 1" plastic angle valve
- PGV-101A – 1" plastic angle valve with flow control
- PGV-100MB – 1" plastic globe valve, no flow control, male thread x barb
- PGV-101MB – 1" plastic globe valve, with flow control, male thread x barb
- PGV-100MM – 1" plastic globe valve, no flow control, male x male thread
- PGV-101MM – 1" plastic globe valve, with flow control, male x male thread
- PGV-151 – 1½" plastic angle/globe valve with flow control
- PGV-201 – 2" plastic angle/globe valve with flow control

DIMENSIONS

- 1" Globe and Male x Male:
5" H x 4½" L x 2½" W
(13 cm H x 11 cm L x 6 cm W)
- 1" Male x Barb:
5" H x 5½" L x 2½" W
(13 cm H x 14 cm L x 6 cm W)
- 1" Angle:
5½" H x 3½" L x 2¾" W
(14 cm H x 9 cm L x 7 cm W)
- 1½" Globe/Angle:
7½" H x 5¾" L x 4½" W
(19 cm H x 15 cm L x 11 cm W)
- 2" Globe/Angle:
8" H x 6¾" L x 5¼" W
(20 cm H x 17 cm L x 13 cm W)

OPERATING SPECIFICATIONS

- Flow: .2 to 120 GPM (0.04 to 27.2 m³/hr; 0.7 to 454.2 l/min)
- Pressure: 20 to 150 PSI (1.4 to 10.3 bars; 138 to 1034 kPa)
- Heavy-duty solenoid: 24VAC, 370mA inrush current, 190mA holding current, 60 cycles; 475mA inrush current, 230mA holding current, 50 cycles

OPTIONS AVAILABLE

- Accu-Set™ pressure regulator
- Reclaimed water identification handle PGV-101 models (part number 269205) for PGV-151/201 models (part number 412705)
- DC latching solenoid (part number 458200)
- Solenoid conduit cover (part number 464322)

PGV Pressure Loss in PSI

GPM	1" Globe	1" Angle	1½" Globe	1½" Angle	2" Globe	2" Angle
1	1.1	1.0				
5	1.9	1.0				
10	1.9	1.0				
15	1.6	1.0				
20	3.3	2.0	3.0	3.0	1.0	1.0
30	6.1	3.0	3.0	3.0	1.0	2.0
40			3.0	3.0	2.0	2.0
50			4.0	3.5	1.0	1.0
60			5.0	4.0	2.0	2.0
80			5.5	4.5	3.0	2.0
100					5.0	3.0
120					6.0	5.0

PGV Pressure Loss in Bars

m³/hr	1" Globe	1" Angle	1½" Globe	1½" Angle	2" Globe	2" Angle
0.23	0.08	0.07				
1.14	0.13	0.07				
2.27	0.13	0.07				
3.41	0.11	0.07				
4.54	0.23	0.14	0.21	0.21	0.07	0.07
6.81	0.42	0.21	0.21	0.21	0.07	0.14
9.08			0.21	0.21	0.14	0.14
11.36			0.28	0.24	0.07	0.07
13.63			0.34	0.28	0.14	0.14
18.17			0.38	0.31	0.21	0.14
22.71					0.34	0.21
27.25					0.41	0.34

PGV Pressure Loss in kPa

l/min	1" Globe	1" Angle	1½" Globe	1½" Angle	2" Globe	2" Angle
3.8	7.58	6.89				
18.9	13.10	6.89				
37.9	13.10	6.89				
56.8	11.03	6.89				
75.7	22.75	13.79	20.70	20.70	6.90	6.90
113.5	42.06	20.68	20.70	20.70	6.90	13.80
151.4			20.70	20.70	13.80	13.80
189.3			27.60	24.10	6.90	6.90
227.1			34.50	27.60	13.80	13.80
302.8			37.90	31.00	20.70	13.80
378.5					34.50	20.70
454.2					41.40	34.50

Charts based on full-open flow control position.



All models of PGV valves feature internal manual bleed, ensuring a neat, dry valve box.

SPECIFICATION GUIDE

EXAMPLE: **PGV - 100G - S - AS**

MODEL PGV	FEATURES	OPTIONS FACTORY INSTALLED	OPTIONS USER INSTALLED
	100G = 1" Globe Valve, no Flow Control 101G = 1" Globe Valve, with Flow Control 100A = 1" Angle Valve, no Flow Control 101A = 1" Angle Valve, with Flow Control 100MB = 1" Globe Valve, no Flow Control, Male Thread x Barb 100MM = 1" Globe Valve, no Flow Control, Male x Male 101MM = 1" Globe Valve, with Flow Control, Male x Male 151 = 1½" Globe/Angle Valve, with Flow Control 201 = 2" Globe/Angle Valve, with Flow Control	S = Slip x Slip (1" Models Only) B = BSP Threads DC = DC Latching Solenoid	AS = Accu-Set™ Pressure Regulator (1½" and 2" Models Only) R = Reclaimed Water Identification Handle or Tag CC = Conduit Cover

PGV Jar-Top

Maximum convenience, reliability and ease of service in a residential valve.

Now it's possible to service a Hunter valve without using any tools to gain access to the inner workings of the product. Product maintenance has never been easier! And with this simplicity, you don't give up any quality or performance as these valves boast more than enough features to handle the demands of whatever your site has to offer. Choose from a wide range of different configurations for the many different styles of installations that vary from region to region. All models feature durable, high-grade, corrosive- and UV-resistant PVC construction and a rugged double-beaded, leak-proof diaphragm with support to prevent stress failure. Plus, you'll find a fully-encapsulated solenoid that guarantees reliable operation time after time.



All it takes is a simple twist of the wrist to unscrew the top of the valve, making PGV Jar-Top the industry's fastest valve to service.

FEATURES & BENEFITS



Jar-Top bonnet

Intuitive design makes it easy to access the valve; no tools necessary

Fully-encapsulated Hunter solenoid

Provides dependable operation and long life

High grade construction

Made of durable materials and stainless steel to resist wear

Internal manual bleed

Easy to use and keeps valve box dry

Flow control option

Adjusts the flow of each zone on a system to deliver optimum nozzle performance

Rigid diaphragm support

Works to prevent stress failure in tough conditions

Common parts to other Hunter valves

Diaphragm is interchangeable with PGV, SRV and ASV series 1" valves; solenoid fits all Hunter plastic valves



Landscapes vary from house to house, installation styles vary from region to region. With a wide range of models, there's a PGV Jar-Top just right for your needs.

MODELS

- PGV-100JT-G – 1" plastic globe valve, Jar-Top Bonnet, no flow control
- PGV-101JT-G – 1" plastic globe valve, Jar-Top Bonnet, with flow control
- PGV-100JT-S – 1" plastic globe valve, Jar-Top Bonnet, no flow control, female slip
- PGV-101JT-S – 1" plastic globe valve, Jar-Top Bonnet, with flow control, female slip
- PGV-100JT-MB – 1" plastic globe valve, Jar-Top Bonnet, no flow control, male thread x barb
- PGV-101JT-MB – 1" plastic globe valve, Jar-Top Bonnet, with flow control, male thread x barb
- PGV-100JT-MB125 – 1" plastic globe valve, Jar-Top Bonnet, no flow control, 1" male thread x 1¼" barb
- PGV-101JT-MB125 – 1" plastic globe valve, Jar-Top Bonnet, with flow control, 1" male thread x 1¼" barb
- PGV-100JT-MM – 1" plastic globe valve, Jar-Top Bonnet, no flow control, male x male thread
- PGV-101JT-MM – 1" plastic globe valve, Jar-Top Bonnet, with flow control, male x male thread
- PGV-100JT-MB075 – 1" plastic globe valve, Jar-Top Bonnet, no flow control, 1" male thread x ¾" barb
- PGV-101JT-MB075 – 1" plastic globe valve, Jar-Top Bonnet, with flow control, 1" male thread x ¾" barb

DIMENSIONS

- 1" Globe:
5½" H x 4¾" L x 3¼" W
- 1" Male x Male:
5½" H x 5¼" L x 3¼" W
- 1" Male x Barb:
5½" H x 5⅞" L x 3¼" W
- 1" Male x 1¼" Barb:
5½" H x 5⅞" L x 3¼" W

OPERATING SPECIFICATIONS

- Flow: .2 to 30 GPM (0.23 to 6.81 m³/hr; 3.8 to 113.5 l/min)
- Pressure: 20 to 150 PSI (1.4 to 10.3 bars; 138 to 1034 kPa)
- Heavy-duty solenoid: 24VAC, 370mA inrush current, 190mA holding current, 60 cycles; 475mA inrush current, 230mA holding current, 50 cycles

OPTIONS AVAILABLE

- Reclaimed water identification handle for flow control models only (part number 269205)
- DC latching solenoid (part number 458200)
- Solenoid conduit cover (part number 464322)

A COMPLETE LINE-UP OF CHOICES

No matter what method of installation you prefer, the PGV Jar-Top offers a model to match your particular requirements:



THREADED

1" threaded inlet and outlet.



SLIP

For direct, leak-free solvent weld connections to PVC pipe.



MALE X BARB

Specifically designed for use with polyethylene piping systems. Requires fewer fittings and allows faster installation. Choice of ¾", 1" or 1¼" barb outlets for compatibility with different systems.



MALE X MALE

Designed for use with "union style" manifold tees for quick installation.

PGV Jar-Top Pressure Loss in PSI	
GPM	1"
1	1.1
5	1.9
10	1.9
15	1.6
20	3.3
30	6.1

PGV Jar-Top Pressure Loss in Bars	
m ³ /hr	1"
0.23	0.08
1.14	0.13
2.27	0.13
3.41	0.11
4.54	0.23
6.81	0.42

PGV Jar-Top Pressure Loss in kPa	
l/min	1"
3.8	7.58
18.9	13.10
37.9	13.10
56.8	11.03
75.7	22.75
113.5	42.06

Charts based on full-open flow control position.

SPECIFICATION GUIDE

EXAMPLE: **PGV - 100JT - S - R**

MODEL PGV	FEATURES	OPTIONS FACTORY INSTALLED	OPTIONS USER INSTALLED
	100JT = 1" Globe Jar-Top Valve, no Flow Control 101JT = 1" Globe Jar-Top Valve, with Flow Control	G = NPT Threads S = Slip x Slip B = BSP Threads MM = Male x Male (NPT) MMB = Male x Male (BSP) MB = Male x 1" Barb MB075 = Male x ¾" Barb MB125 = Male x 1¼" Barb	R = Reclaimed Water Identification Handle DC = DC Latching Solenoid CC = Solenoid Conduit Cover

HPV

A heavy-duty residential valve made specifically to handle demanding situations.

Built to work. Built to last. The Hunter HPV is a valve that's both. Because this is a valve with every feature you could ask for to attain long-lasting, heavy-duty performance. Rigid internal support to prevent stress failure in high pressure situations. A unique porting system with a superior ability to filter dirty water that also closes slowly to suppress water hammer. Low-flow capability for effective drip applications. A captive diaphragm, solenoid plunger and bonnet screws, so lost parts are never a problem. There's even a flow control option that assures efficient operation when accurate flow management is required. For residential and light commercial applications, the Hunter HPV plastic valve is built to take whatever your site is dishing out.



To attain the highest standards for quality control, Hunter routinely water tests all valves at maximum and minimum pressures as well as maximum and minimum flows.

FEATURES & BENEFITS



Heavy-duty Hunter solenoid

Long-life, reliable operation

Captive solenoid plunger

No more lost parts when servicing

Internal manual bleed

Keeps valve box dry

Optional flow control

Adjust the flow of each zone on a system

Captive bonnet screws

No more lost parts

Self-flushing filtering system

Handles dirty water with ease

Fully supported diaphragm

Tolerates high pressure installations



IT'S A DIRTY JOB, BUT HUNTER VALVES CAN DO IT

Hunter valves are specifically engineered to handle conditions where clean water is not an option. When you're drawing from a well, lake, reservoir or any other source of dirty water, turn the job over to a Hunter valve. Our HPV's unique filtering mechanism is flushed with turbulent water every single time the valve opens and closes to ensure consistent, reliable operation. Its filter also works to eliminate valve failure, with an innovative design that protects the upper diaphragm chamber from debris (if your system contends with a non-potable supply of water, or your water source has algae or other biological contaminants, you need to use our ICV valve with Filter Sentry™).



MODELS

- HPV-100G – 1" plastic globe valve
- HPV-101G – 1" plastic globe valve, with flow control
- HPV-100A – 1" plastic angle valve
- HPV-101A – 1" plastic angle valve, with flow control

DIMENSIONS

- Globe Valve: 5¼" H x 4½" L x 2¾" W (13 cm H x 11 cm L x 7 cm W)
- Angle Valve: 5½" H x 3½" L x 2¾" W (14 cm H x 9 cm L x 7 cm W)
- Female inlet/outlet: 1" NPT, BSP or Slip

OPERATING SPECIFICATIONS

- Flow: .4 to 40 GPM (0.09 to 9.1 m³/hr; 1.5 to 151 l/min)
- Pressure: 20 to 150 PSI (1.4 to 10.3 bars; 138 to 1034 kPa)
- Heavy-duty solenoid: 24VAC, 370mA inrush current, 190mA holding current, 60 cycles; 475mA inrush current, 230mA holding current, 50 cycles

OPTIONS AVAILABLE

- Reclaimed water identification handle (part number 269205)
- DC latching solenoid (part number 458200)
- Solenoid conduit cover (part number 464322)

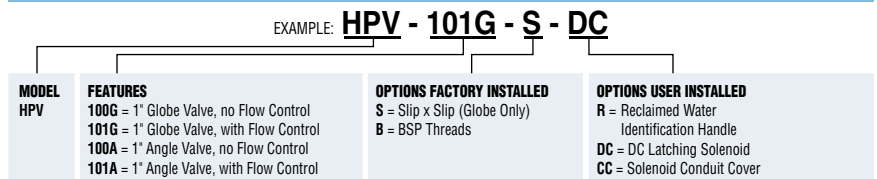
HPV Pressure Loss in PSI		
GPM	1" Globe	1" Angle
1	1.0	1.0
5	2.0	1.5
10	2.0	1.7
15	1.8	1.4
20	2.5	1.5
25	3.6	2.0
30	5.5	2.9
35	7.7	4.2
40	10.5	5.7

HPV Pressure Loss in Bars		
m³/hr	1" Globe	1" Angle
0.23	0.10	0.10
1.14	0.10	0.10
2.27	0.10	0.10
3.41	0.10	0.10
4.54	0.20	0.10
5.68	0.20	0.10
6.81	0.40	0.20
7.95	0.50	0.30
9.00	0.70	0.40

HPV Pressure Loss in kPa		
l/min	1" Globe	1" Angle
3.8	6.90	6.90
18.9	13.80	10.30
37.9	13.80	11.70
56.8	12.40	9.70
75.7	17.20	10.30
94.6	24.80	13.80
113.6	37.90	20.00
132.5	53.10	29.00
151.4	72.40	39.30

Charts based on full-open flow control position.

SPECIFICATION GUIDE



ICV

The top-of-the-line valve you can count on for superior durability and ability to handle exceptionally high pressures.

For a long-lasting valve that can deliver dependable performance at commercial sites, this is the heavy-duty workhorse you can count on. Created to handle the wide range of conditions different sites will bring, this valve includes both a fabric reinforced diaphragm and flow control as standard features, and can consistently withstand pressures of up to 220 PSI while handling the continual hammer that such forces will produce. The ICV also offers the added option of the Accu-Set™ pressure regulator to maintain a safe, constant water pressure level. Plus, it's exceptionally easy to service, with bonnet fasteners that can be loosened and tightened using a variety of common contractor tools.



FEATURES & BENEFITS



Glass-filled nylon construction

220 PSI rated for maximum strength and sturdiness

Internal manual bleed

Keeps valve box dry

Captive solenoid plunger

No more lost parts when servicing

Captive bonnet bolts with matching brass body inserts

Provide ease of service, eliminate lost parts

Fabric reinforced diaphragm

Provides reliable operation up to 220 PSI

Optional reclaimed water identification handle

For field identification of non-potable water supply



MODELS

- ICV-101G – 1" plastic globe valve
- ICV-151G – 1½" plastic globe valve
- ICV-201G – 2" plastic globe valve
- ICV-301G – 3" plastic globe/angle valve
- Accu-Set™ Pressure Regulator

DIMENSIONS

- ICV-101G
5½" H x 4¾" L x 4" W
(14 cm H x 12 cm L x 10.2 cm W)
- ICV-151G
7¼" H x 6⅞" L x 5½" W
(18 cm h x 17.5 cm L x 14 cm W)
- ICV-201G
7¼" H x 6⅞" L x 5½" W
(18 cm H x 17.5 cm L x 14 cm W)
- ICV-301G
10¾" H x 9¼" L x 7⅜" W
(27.3 cm H x 23.5 cm L x 18.7 cm W)
- Female inlet/outlet: 1", 1½", 2" & 3" NPT or BSP

OPERATING SPECIFICATIONS

- Flow: 0.10 to 300 GPM (0.06 to 68.10 m³/hr; 0.9 to 1,135.5 l/min)
- Pressure: 20 to 220 PSI (1.4 to 15.0 bars; 138 to 1500 kPa)
- Temperature: up to 150°F (66°C)
- Heavy-duty solenoid: 24VAC, 370mA inrush current, 190mA holding current, 60 cycles; 475mA inrush current, 230mA holding current, 50 cycles
- Accu-Set: 20 PSI (1.4 bars, 138 kPa) minimum operating pressure. Regulates from 20 to 100 PSI (1.4 to 7.0 bars; 138 to 689 kPa)

OPTIONS AVAILABLE

- Accu-Set pressure regulator
- Reclaimed water ID handle (part number 385905 - 1", 1½" & 2") (part number 515005 - 3")
- DC latching solenoid (part number 458200)
- Solenoid conduit cover (part number 464322)



Accu-Set™: FINALLY, A PRESSURE REGULATOR THAT'S EASY TO SET

With the added option of Accu-Set on a Hunter ICV valve, you can reliably adjust and regulate pressures anywhere from 20 to 100 PSI, and be certain the setting you select will never waver. Accu-Set can be field installed to any ICV valve in seconds, without tools. Plus, the best part is the ease of setting the unit – just turn to the pressure you want on the easy-reading dial. No other pressure regulating device is as simple to use (just one more reason to choose Hunter).

ICV Pressure Loss in PSI

GPM	3"			
	1"	1½"	2"	Globe Angle
0.1	2.0			
0.5	2.0			
1.0	2.0			
5.0	4.0			
10.0	3.0			
15.0	3.0			
20.0	3.0	1.5		
30.0	4.0	1.5		
40.0	7.0	1.7	0.8	
50.0		2.2	1.2	
60.0		3.0	1.7	
75.0		3.9	2.4	
90.0		5.5	3.2	
100.0		7.0	4.2	
120.0		10.9	6.5	
135.0		12.7	7.9	
150.0		16.2	9.8	2.5 1.9
175.0			13.3	3.0 2.4
200.0			17.7	4.1 3.3
225.0				5.3 4.3
250.0				6.7 5.5
275.0				8.3 6.9
300.0				10.1 8.5

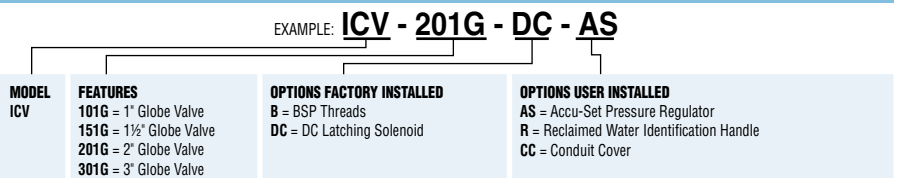
ICV Pressure Loss in Bars

m³/hr	3"			
	1"	1½"	2"	Globe Angle
0.06	0.14			
0.11	0.14			
0.23	0.14			
1.14	0.28			
2.27	0.21			
3.41	0.21			
4.54	0.21	0.10		
6.81	0.28	0.10		
9.08	0.48	0.12	0.05	
11.36		0.15	0.08	
13.63		0.21	0.12	
17.03		0.27	0.16	
20.44		0.38	0.22	
22.71		0.48	0.29	
27.25		0.75	0.45	
30.66		0.87	0.54	
34.10		1.12	0.67	.17 .13
39.70			0.92	.20 .16
45.42			1.22	.28 .23
51.10				.36 .30
56.80				.46 .38
62.50				.57 .48
68.10				.70 .59

ICV Pressure Loss in kPa

l/min	3"			
	1"	1½"	2"	Globe Angle
0.9	13.7			
1.9	13.7			
3.8	13.7			
18.9	27.5			
37.9	20.6			
56.8	20.6			
75.7	20.6	10.3		
113.5	27.5	10.3		
151.4	48.2	11.7	5.5	
189.2		15.1	8.2	
227.1		20.6	11.7	
283.8		26.8	16.5	
340.6		37.9	22.0	
378.5		48.2	28.9	
454.2		75.1	44.8	
510.9		87.5	54.4	
567.8		111.6	67.5	17.2 13.1
662.4			91.7	20.7 16.5
757.0			122.0	28.3 22.8
851.6				36.5 29.6
946.3				46.2 37.9
1040.9				57.2 47.6
1135.5				69.6 58.6

SPECIFICATION GUIDE



ICV Filter Sentry™

*A heavy-duty, high pressure workhorse,
with the added benefit of contamination protection.*

Dirt. It's a valve's biggest enemy. But aren't filters supposed to keep a valve dirt free? Well, most can keep out the big stuff, but what about the microscopic particles – like minerals and algae – that can build up on the diaphragm filter? After all, that kind of contamination, over time, can lead to the product's premature failure. That's why Hunter developed Filter Sentry™, a scouring mechanism which continuously works whenever the ICV is operating. Added to all the other outstanding features of the ICV, it results in the most durable and reliable valve available that can consistently withstand pressures of up to 220 PSI. The ICV Filter Sentry. When it comes to valve performance, there's no better way to stand guard over dirt.



FEATURES & BENEFITS



Glass-filled nylon construction

220 PSI rated for maximum strength and sturdiness

Internal manual bleed

Keeps valve box dry

Captive solenoid plunger

No more lost parts when servicing

Captive bonnet bolts with matching brass body inserts

Provide ease of service, eliminate lost parts

Fabric reinforced diaphragm

Provides reliable operation up to 220 PSI

Patented Filter Sentry system

Automatically cleans the filter

Optional reclaimed water identification handle

For field identification of non-potable water supply



MODELS

- ICV-101G-FS – 1" plastic globe valve with Filter Sentry™
- ICV-151G-FS – 1½" plastic globe valve with Filter Sentry
- ICV-201G-FS – 2" plastic globe valve with Filter Sentry
- ICV-301G-FS – 3" plastic globe/angle valve with Filter Sentry
- Accu-Set™ pressure regulator

DIMENSIONS

- ICV-101G
5½" H x 4¾" L x 4" W
(14 cm H x 12 cm L x 10.2 cm W)
- ICV-151G
7¼" H x 6⅞" L x 5½" W
(18 cm h x 17.5 cm L x 14 cm W)
- ICV-201G
7¼" H x 6⅞" L x 5½" W
(18 cm H x 17.5 cm L x 14 cm W)
- ICV-301G
10¾" H x 9¼" L x 7⅜" W
(27.3 cm H x 23.5 cm L x 18.7 cm W)
- Female inlet/outlet: 1", 1½", 2" & 3" NPT or BSP

OPERATING SPECIFICATIONS

- Flow: 0.10 to 300 GPM (0.06 to 68.10 m³/hr; 0.9 to 1,135.5 l/min)
- Pressure: 20 to 220 PSI (1.4 to 15.0 bars; 138 to 1500 kPa)
- Temperature: up to 150°F (66°C)
- Heavy-duty solenoid: 24VAC, 370mA inrush current, 190mA holding current, 60 cycles; 475mA inrush current, 230mA holding current, 50 cycles
- Accu-Set: 20 PSI (1.4 bars, 138 kPa) minimum operating pressure. Regulates from 20 to 100 PSI (1.4 to 7.0 bars; 138 to 689 kPa)

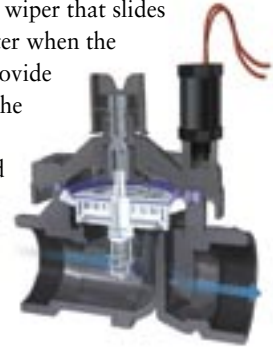
OPTIONS AVAILABLE

- Accu-Set pressure regulator
- Reclaimed water ID handle (part number 385905 - 1", 1½" & 2") (part number 515005 - 3")
- DC latching solenoid (part number 458200)
- Solenoid conduit cover (part number 464322)



A SUPERIOR SELF-CLEANING SYSTEM

The ICV standard filter can become clogged by large amounts of small debris commonly found in reclaimed water, wells, or in lakes and ponds. But with Filter Sentry™, the filter is scoured clean by a wiper that slides up and strokes the full length of the filter when the valve opens. The wiper continues to provide scrubbing action on the upper part of the filter during valve operation. For your convenience, Filter Sentry can be added easily after the valve is installed.



ICV Pressure Loss in PSI

GPM	3"			
	1"	1½"	2"	Globe Angle
0.1	2.0			
0.5	2.0			
1.0	2.0			
5.0	4.0			
10.0	3.0			
15.0	3.0			
20.0	3.0	1.5		
30.0	4.0	1.5		
40.0	7.0	1.7	0.8	
50.0	2.2	1.2		
60.0	3.0	1.7		
75.0	3.9	2.4		
90.0	5.5	3.2		
100.0	7.0	4.2		
120.0	10.9	6.5		
135.0	12.7	7.9		
150.0	16.2	9.8	2.5	1.9
175.0		13.3	3.0	2.4
200.0		17.7	4.1	3.3
225.0			5.3	4.3
250.0			6.7	5.5
275.0			8.3	6.9
300.0			10.1	8.5

ICV Pressure Loss in Bars

m³/hr	3"			
	1"	1½"	2"	Globe Angle
0.06	0.14			
0.11	0.14			
0.23	0.14			
1.14	0.28			
2.27	0.21			
3.41	0.21			
4.54	0.21	0.10		
6.81	0.28	0.10		
9.08	0.48	0.12	0.05	
11.36	0.15	0.08		
13.63	0.21	0.12		
17.03	0.27	0.16		
20.44	0.38	0.22		
22.71	0.48	0.29		
27.25	0.75	0.45		
30.66	0.87	0.54		
34.10	1.12	0.67	.17	.13
39.70	0.92	.20	.16	
45.42	1.22	.28	.23	
51.10		.36	.30	
56.80		.46	.38	
62.50		.57	.48	
68.10		.70	.59	

ICV Pressure Loss in kPa

l/min	3"			
	1"	1½"	2"	Globe Angle
0.9	13.7			
1.9	13.7			
3.8	13.7			
18.9	27.5			
37.9	20.6			
56.8	20.6			
75.7	20.6	10.3		
113.5	27.5	10.3		
151.4	48.2	11.7	5.5	
189.2	15.1	8.2		
227.1	20.6	11.7		
283.8	26.8	16.5		
340.6	37.9	22.0		
378.5	48.2	28.9		
454.2	75.1	44.8		
510.9	87.5	54.4		
567.8	111.6	67.5	17.2	13.1
662.4		91.7	20.7	16.5
757.0		122.0	28.3	22.8
851.6			36.5	29.6
946.3			46.2	37.9
1040.9			57.2	47.6
1135.5			69.6	58.6

SPECIFICATION GUIDE

EXAMPLE: **ICV - 201G - FS - AS**

MODEL	FEATURES	OPTIONS FACTORY INSTALLED	OPTIONS USER INSTALLED
ICV	101G = 1" Globe Valve 151G = 1½" Globe Valve 201G = 2" Globe Valve 301G = 3" Globe Valve	FS = Filter Sentry B = BSP Threads DC = DC Latching Solenoid	AS = Accu-Set Pressure Regulator R = Reclaimed Water Identification Handle CC = Conduit Cover

HBV

Constructed of solid brass to handle tough conditions and resist contamination.

An internal self-flushing filter and self-cleaning metering rod help eliminate dirt particles before they enter the solenoid chamber, effectively making this valve contamination-resistant. The HBV also features a stainless steel solenoid seat, built-in flow control to assure accurate flow management, and a surgical-quality toggle switch that provides easy manual operation through internal downstream bleed. So rugged and reliable, dirty water will never be a problem again!



FEATURES & BENEFITS

Heavy-duty toggle switch

Makes manual operation easy

Stainless steel seat in solenoid chamber

Prevents rust and corrosion

Slow closure

Stops water hammer, surge and noise

Reinforced 600 lb. test diaphragm with integral O-ring seal

Long life under extreme pressures

MODELS

- HBV-101E – 1" brass globe valve
- HBV-151E – 1½" brass globe valve
- HBV-201E – 2" brass globe valve
- HBV-301E – 3" brass globe valve

DIMENSIONS

- HBV-101E
4½" H x 4¾" L x 5½" W
(11 cm H x 11 cm L x 14 cm W)
- HBV-151E
8" H x 6" L x 8" W
(20 cm H x 15 cm L x 20 cm W)
- HBV-201E
9" H x 7" L x 9" W
(23 cm H x 18 cm L x 23 cm W)
- HBV-301E
10" H x 11⅝" L x 10" W
(25 cm H x 29 cm L x 25 cm W)
- HBV-101EP
4½" H x 4¾" L x 5½" W
(11 cm H x 11 cm L x 14 cm W)
- HBV-151EP
8" H x 6" L x 7½" W
(20 cm H x 15 cm L x 19 cm W)
- HBV-201EP
9" H x 7" L x 7¾" W
(23 cm H x 18 cm L x 20 cm W)
- HBV-301EP
10" H x 11⅝" L x 11" W
(25 cm H x 29 cm L x 28 cm W)
- Female inlet/outlet: NPT or BSP

OPERATING SPECIFICATIONS

- Flow: 5 to 360 GPM
(1.14 to 81.8 m³/hr; 18.9 to 1362 l/min)
- Pressure: 20 to 200 PSI (1.4 to 14.0 bars; 138 to 1379 kPa) Note: Inlet pressure must exceed outlet pressure by a minimum of 15 PSI (1.0 bars; 103 kPa) on pressure regulated models
- Electrical: 24VAC, 50/60 cycle solenoid power requirement – 335mA (.335A; 8VA) inrush current; 200mA (.200A; 4.9VA) holding current

OPTIONS AVAILABLE

- Pressure regulation
- BSP threads
- DC latching solenoid, field installed (part number S16305)

HBV Pressure Loss in PSI					HBV Pressure Loss in Bars					HBV Pressure Loss in kPa				
GPM	1"	1½"	2"	3"	m ³ /hr	1"	1½"	2"	3"	l/min	1"	1½"	2"	3"
5	0.2				1.14	0.00				18.9	1.10			
10	0.8				2.27	0.10				37.9	5.20			
15	1.5				3.41	0.10				56.8	10.30			
20	2.6	0.5			4.54	0.20	0.00			75.7	17.90	3.10		
30	5.7	1.0			6.81	0.40	0.10			113.6	39.30	6.90		
40	10.0	1.7	0.5		9.09	0.70	0.10	0.00		151.4	68.90	11.70	3.70	
50	15.6	2.7	0.8		11.36	1.10	0.20	0.10		189.3	110.00	18.30	5.70	
60	22.0	3.8	1.2		13.63	1.50	0.30	0.10		227.1	151.90	26.20	8.30	
70		5.1	1.6		15.90		0.40	0.10		265.0		35.20	11.00	
80		6.6	2.1		18.17		0.50	0.10		302.8		45.50	14.10	
90		8.3	2.6		20.44		0.60	0.20		340.7		57.20	17.90	
100		10.1	3.2	2.4	22.72		0.70	0.20	0.20	378.5		69.60	22.10	16.00
120		14.8	4.6	2.5	27.26		1.00	0.30	0.20	454.2		102.20	31.70	17.00
140		19.0	6.3	2.5	31.80		1.30	0.40	0.20	530.0		131.20	43.40	17.00
160		23.1	8.0	2.9	36.35		1.60	0.60	0.20	605.7		159.40	55.20	20.00
200			13.9	4.0	45.43			1.00	0.30	757.1			95.80	28.00
240				6.0	54.51				0.40	908.4				41.00
280				8.2	63.59				0.60	1059.8				57.00
320				10.7	72.68				0.70	1211.2				74.00
360				13.2	81.76				1.90	1362.6				91.00

Charts based on full-open non-regulated setting position. Minimum flow on 1" valve is 9.5 l/min.

SPECIFICATION GUIDE

EXAMPLE: **HBV - 201E - P**

MODEL	FEATURES	OPTIONS
HBV	101E = 1" Globe Valve 151E = 1½" Globe Valve 201E = 2" Globe Valve 301E = 3" Globe Valve	P = Pressure Regulation B = BSP Threads DC = DC Latching Solenoid (Field Installed)