

# Honeywell Braukmann

## Model D05 Pressure Regulating Valve 1/2, 3/4, 1", 1-1/4"

### APPLICATION

Valves for new residential and light commercial construction, drip irrigation, and other applications requiring highly sensitive and accurate regulation.

### PRESSURE RATINGS

Max. Inlet Pressure - 400 psi.  
Reduced Pressure Range - 15 to 150 psi.  
Max. Reducing Ratio - 10:1.  
Min. Differential - 14 psi.

### MAX. TEMPERATURE RATINGS

air - 158 F.  
Water - 180 F.

**CONNECTIONS:** Thread by thread or union on inlet and/or outlet; female NPT threaded or sweat. Non-union, single-union, & double-union models available.

**STRAINER SCREEN SIZE:** 0.032 in. mesh.

**GAUGE TAP:** 1/4 in. NPT

D05 dimensions in in. [mm]

Size (inches)	H	h	I
1/2	4-9/16	1-7/8	3-1/8
3/4	4-9/16	1-7/8	3-1/2
1	6	2-3/8	3-15/16
1-1/4	6	2-5/8	4-11/16

Size (inches)	SWEAT TAILPIECE		THREADED TAILPIECE	
	L	L	L	L
1/2	3-7/8	4-5/8	4-1/16	4-15/16
3/4	4-5/16	5-3/16	4-5/16	5-3/16
1	5-1/4	6-1/2	5	5-1/16
1-1/4	6-2/16	7-11/16	6	7-5/16

- Non Union Model
- Single Union Model
- Double Union Model

### FEATURES

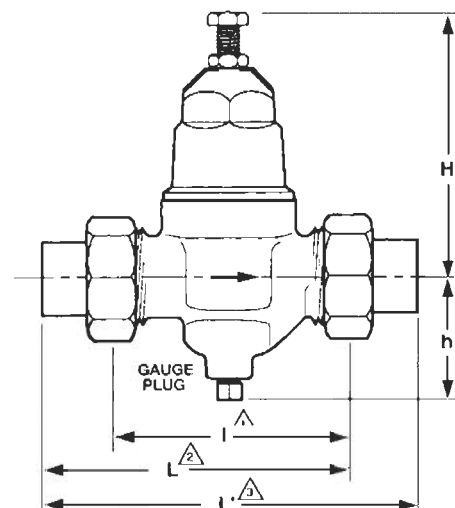
Flow capacity and accuracy make the D05 suitable for a variety of applications. Bronze body with stainless steel and engineered thermoplastic internal parts. Non-corroding unitized cartridge contains all working parts and is easily replaceable. Fully balanced regulator mechanism with fabric reinforced diaphragm. Includes balanced single seat for accurate pressure output under varying inlet pressures. Inlet and outlet are internally threaded female NPT, and externally threaded for use with union assemblies. Includes built-in strainer and thermal bypass. One model can be used in low, standard or high pressure applications. Gauge tapped models available

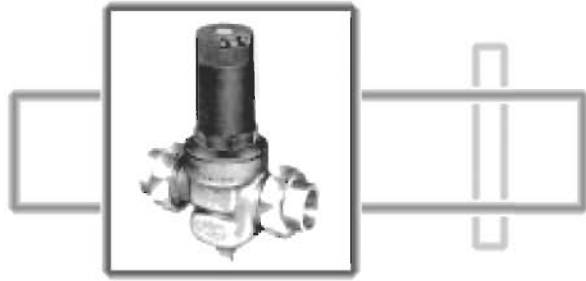
### NOTE: NOT SUITABLE FOR STEAM SERVICE.

Certified by ASSE Standard 1003 and CSA Standard B356; listed by IAPMO and the City of Los Angeles.

### MATERIALS

Body - Bronze, Internal Parts - Stainless Steel and engineered thermoplastics, Regulator Mechanism - Fabric reinforced diaphragm





## Honeywell Braukmann

### Model DS05 "DialSet"

### Pressure Regulating Valve 1/2, 3/4 & 1"

**4**  
Valves

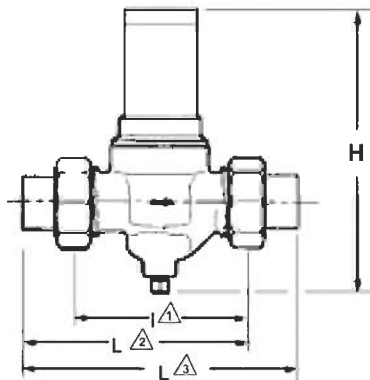
**A**  
Ball Valves

**B**  
Regulators

**C**  
Automatic Control Valves

#### FEATURES

- Dial is calibrated in 10 psi increments to allow quick and accurate adjustment of outlet pressure.
- Flow capacity and accuracy make the DS05 suitable for potable water service and most irrigation applications.
- Full range outlet adjustment 15 psi - 150 psi.
- High pressure (400 psi) inlet rating.
- Non-corroding unitized cartridge contains all working parts and is easily replaceable.
- Bronze body with stainless steel and engineered thermoplastic internal parts.
- Balanced single seat for accurate pressure output under varying inlet pressures.
- Inlet & outlet internally threaded female NPT, and externally threaded for use with union assemblies.
- Built-in strainer and thermal bypass.
- One model can be used in low, standard or high pressure applications.
- Gauge tap included on all models.



#### APPLICATION

Valves for new residential and light commercial construction, drip irrigation, and other applications requiring highly sensitive and accurate regulation. NOTE: NOT SUITABLE FOR STEAM SERVICE. Certified by ASSE Standard 1003 and CSA Standard B356; listed by IAPMO and the City of Los Angeles.

#### SPECIFICATIONS

- MATERIALS OF CONSTRUCTION:  
Body - Bronze (Int Parts - Stainless Steel & engineered thermoplastics), Regulator Mechanism - Fabric reinforced diaphragm
- PRESSURE RATINGS:  
Max. Inlet Pressure - 400 psi.  
Reduced Pressure Range - 15 to 150 psi.  
Max. Reducing Ratio - 10:1.  
Min. Differential - 14 psi.
- MAX. TEMPERATURE RATINGS:  
Air - 158° F  
Water - 180° F
- CONNECTIONS: Configurable as a thread by thread, single NPT threaded or sweat union or double-union model.
- STRAINER SCREEN SIZE: 0.032 in. mesh.  
GAUGE TAP: 1/4 in. NPT

#### DIMENSIONS

△ Non Union Model    4 No gauge plug    △ Single Union Model    △ Double Union Model

Size (inches)	H	h <sup>4</sup>	L <sup>△</sup>	SWEAT TAILPIECE		THREADED TAILPIECE	
				L <sup>△</sup>	L <sup>△</sup>	L <sup>△</sup>	L <sup>△</sup>
1/2	5-29/32 [150]	1-9/16 [40]	3-3/16 [81]	3-7/8 [98]	4-9/16 [116]	3-15/16 [100]	4-3/4 [121]
3/4	5-29/32 [150]	1-9/16 [40]	3-1/2 [89]	4-1/4 [108]	5-1/6 [129]	4-1/4 [108]	5-1/16 [129]
1	7-11/16 [196]	2-1/8 [54]	3-15/16 [100]	5-1/8 [130]	6-5/16 [160]	4-7/8 [123]	5-13/16 [148]
1-1/4	5-9/16 [141]	2-5/8 [66]	4-1/16 [119]	6-3/16 [157]	7-11/16 [195]	6 [152]	7-5/16 [185]

## D05 & DS05 "Dial Set" Model -

### Water Capacity Ratings

Pressure Regulator Valve Size	Reduced Pressure Fall-Off (PSI)	Pressure Differential between Inlet and Outlet							
		25 PSI		50 PSI		75 PSI		100 PSI or more	
		Flow Capacity (gpm)	Velocity (ft./sec)	Flow Capacity (gpm)	Velocity (ft./sec)	Flow Capacity (gpm)	Velocity (ft./sec)	Flow Capacity (gpm)	Velocity (ft./sec)
1/2 inch	6	7.0	7.3	8.0	8.3	9.0	9.4	10.0	10.4
	10	10.0	10.4	11.0	11.5	12.0	12.5	13.0	13.5
	15	13.0	13.5	15.0	15.6	16.0	16.7	17.0	17.7
	20	15.5	16.0	18.0	19.5	19.0	21.0	20.0	22.0
3/4 inch	6	9.0	5.4	10.0	6.0	11.0	6.5	12.0	7.1
	10	15.0	8.9	16.0	9.5	17.0	10.0	18.0	10.7
	15	20.0	11.9	22.0	13.7	23.0	13.7	24.0	14.3
1 inch	6	11.5	4.2	13.0	4.7	14.5	5.3	16.0	5.8
	10	20.0	7.2	21.5	7.8	23.0	8.3	24.5	8.9
	15	28.0	10.7	30.0	10.9	33.0	12.0	35.0	12.7
1-1/4 inch	6	32.0	14.0	37.0	13.5	40.0	15.5	41.0	15.0
	10	13.5	2.9	16.0	3.4	20.0	4.3	22.0	4.7
	15	22.0	4.7	29.0	6.2	34.0	7.3	38.0	8.1
1-1/4 inch	20	37.0	7.9	56.0	12.0	62.5	13.4	73.0	15.6
	20	55.0	11.8	78.0	16.7	87.0	18.6	101.0	21.06

VS = velocity in feet per second - based on schedule 40 pipe size. Recommended pressure fall-off for general use approx. 104 kPa (15 p.s.i.). Recommended velocities for the flow of water - for residential and general use 5-10 feet per sec.; for industrial 7-15 feet per sec.; for boiler feed 7-15 feet per sec.

### Parts & Accessories

#### Order Number Description

##### Replacement Parts

203223	Bonnet Assembly for 1/2 and 3/4 in. Valves.
203224	Bonnet Assembly for 1 and 1-1/4 in. Valves.
272840	Gasket for 1/2 in. D05/DS05 (quantity 24).
272841	Gasket for 3/4 in. D05/DS05 (quantity 24).
272842	Gasket for 1 in. D05/DS05 (quantity 24).
272843	Gasket for 1-1/4 in. D05/DS05 (quantity 24).
K05A1009	Replacement Cartridge, Screen and O-ring for 1/2 and 3/4 in. valves.
K05A1017	Replacement Cartridge, Screen and O-ring for 1 and 1-1/4 in. valves.
K05B1007	Replacement Screen and O-ring for 1/2 and 3/4 in. valves.
K05B1015	Replacement Screen and O-ring for 1 and 1-1/4 in. valves.

##### Union Kits

K06U1069	Union Kit—1/2 in., includes Nut, Female NPT Threaded Tailpiece and Gasket.
K06U1077	Union Kit—3/4 in., includes Nut, Female NPT Threaded Tailpiece and Gasket.
K06U1085	Union Kit—1 in., includes Nut, Female NPT Threaded Tailpiece and Gasket.
K06U1135	Union Kit—1-1/4 in. for D05/DS05 includes Nut, Sweat Tailpiece and Gasket.
K06U1093	Union Kit—1/2 in., includes Nut, Sweat Tailpiece and Gasket.
K06U1101	Union Kit—3/4 in., includes Nut, Sweat Tailpiece and Gasket.
K06U1119	Union Kit—1 in., includes Nut, Sweat Tailpiece and Gasket.
K06U1143	Union Kit—1-1/4 in. for D05/DS05 includes Nut, Sweat Tailpiece and Gasket.

##### Accessories

202868	Filter Washer, 3/4 in., for use with U06P1045 Plastic Stand-in Pipe.
202869	Filter Washer, 1 in., for use with U06P1052 Plastic Stand-in Pipe.
U06P1045	Plastic Stand-in Pipe (spacer) for use with D05 Double Union Pressure Regulating Valves, 3/4 in.
U06P1052	Plastic Stand-in Pipe (spacer) for use with D05 Double Union Pressure Regulating Valves, 1 in.

##### Pressure Gauges

M39A1032	Pressure Gauge with Bottom Inlet; 0 to 160 psi.
MT194A1006	Water Pressure Test and Recording Gauge with Hose Bib Connection; 0 to 300 psi.

**American Backflow Specialties**

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