

# **PULSAFEEDER®**

## Timed Sample Method Valve Packages

**16-896-00:** Includes a 1/2" solenoid valve to facilitate automation of the blowdown line and a 1" orifice union with assorted plates to adjust the rate of blowdown and prevent flashing by maintaining a constant back pressure against the electrode.

**16-896-04:** Includes a 1/2" throttling valve which prevents flashing by maintaining a constant back pressure across the electrode, and a 1/2" motorized ball valve with a heavy-duty 90 degree actuator for automation of blowdown.

**16-896-08:** Includes a 1/2" motorized ball valve with a 360 degree actuator to automate blowdown and a 1" orifice union with assorted plates to adjust the rate of blowdown and prevent flashing by maintaining a constant back pressure across the electrode.

## Continuous Sample Method Valve Packages

**16-896-02:** Includes a 3/4" solenoid valve to automate blowdown and two 1" orifice unions for the blowdown and sample lines to adjust the blowdown rate and prevent flashing.

**16-896-06:** Includes 1/2" and 3/4" flow throttling valves for the blowdown and sampling lines to prevent flashing. The valve package also includes a 3/4" motorized ball valve with a 90 degree actuator to automate blowdown.

**16-896-10:** Includes a 3/4" motorized ball valve with a 360 degree actuator for automating blowdown and two 1" orifice unions with four plates each for adjusting the blowdown rate and preventing flashing in the blowdown and sampling lines.

## Features

- Ideal For Low Pressure Boilers Up To 100 PSI (6.9 BAR)
  - 16-896-00
  - 16-896-02
- Ideal For Low Pressure Boilers Up To 300 PSI (20.8 BAR)
  - 16-896-04
  - 16-896-06
- Ideal For Boilers To 450 PSI (31.1 BAR)
  - 16-896-08
- Ideal For Boilers To 425 PSI (29.4 BAR)
  - 16-896-10

## Operating Benefits

- Economical packages for continuous or timed sample methods of control.
- Heavy duty materials ensure durability.



## Aftermarket

- Metering Pumps
- Cooling Tower Controllers
- Boiler Controllers
- Pre-Engineered Systems



## Valve Packages Timed Sample or Continuous Sample Method

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# Valve Packages – Timed or Continuous Sample Method

## Specifications and Model Selection

### Timed Sample Systems

Part Number	Description
16-896-00	<b>Up to 100 psi</b> Package includes 1/2" solenoid valve (12-048-00) and 1" orifice union with 4 orifice plates (12-012-00 and 12-013-50).
16-896-04	<b>Up to 300 psi</b> Package includes 1/2" motorized ball valve with heavy duty 90 degree actuator (16-892-00) and 1/2" flow throttling valve (12-046-01).
16-896-08	<b>Up to 450 psi</b> Package includes 1/2" motorized ball valve with 360 degree actuator (16-892-02) and 1" orifice union with 4 orifice plates (12-012-00 and 12-013-50).

### Continuous Sample Systems

16-896-02	<b>Up to 100 psi</b> Package includes 3/4" solenoid valve (12-056-00) and two 1" orifice unions with 4 orifice plates each (12-012-00 and 12-013-50).
16-896-06	<b>Up to 300 psi</b> Package includes 3/4" motorized ball valve with 90 degree actuator (16-892-01), 3/4" flow throttling valve (12-055-01), and 1/2" flow throttling valve (12-046-01).
16-896-10	<b>Up to 425 psi</b> Package includes 3/4" motorized ball valve with 360 degree actuator (16-892-04) and two 1" orifice unions with 4 orifice plates each (12-012-00 and 12-013-50).

#### Available option:

-2 230 VAC service

#### NOTE:

Materials of construction: Solenoid Valves are bronze body with stainless steel pilot and valves; Motorized Ball Valves are carbon steel body with 316 stainless steel ball and stem; Throttling Valves are carbon steel body and valve; and Orifice Unions are carbon steel union with stainless steel plates.

## Engineering Data

### Orifice Union & Plates

Part Number:	12-012-00-1 Consists Of 12-012-00 & 12-013-50
WSP Rating:	3000 PSI (207.6 BAR)
Materials:	Carbon Steel Union, 316 Stainless Steel Plates
Plumbing:	1" (2.5 cm) NPT
Dimensions:	H 2-1/2" x W 2-1/2" (6.4 x 6.4 cm)
Shipping Weight:	3 lbs. (1.4 kg)
Orifice Sizes:	1/8" (0.3 cm), 3/16" (0.5 cm), 1/4" (0.6 cm), 5/16" (0.8 cm)

### Solenoid Valve

Part Number:	12-048-00	12-056-00
WSP Rating:	140 PSI (.8 BAR)	110 PSI (7.6 BAR)
Materials:	Bronze Bbody, Stainless Steel Pilot & Valve	
Plumbing:	1/2" (1.3 cm) NPT	3/4" (1.9 cm) NPT
Temperature Max:	400°F (205°C)	
Dimensions:	H 7" x W 3-1/2" (17.8 x 8.9 cm)	H 7-1/2" x W 3-1/2" (19.1 x 8.9 cm)
Shipping Weight:	9 lbs. (4.1 kg)	
Holding Current:	0.6 Amps, Normally Closed	

### Throttling Valve

Part Number:	12-046-01	12-046-01, 12-055-01
WSP Rating:	300 PSI (20.8 BAR)	
Materials:	Bronze Body, Stainless Steel Disc & Seat	
Plumbing:	1/2" (1.3 cm) NPT	1/2" (1.3 cm) & 3/4" (1.9 cm) NPT
Temperature Max:	550°F (290°C)	
Dimensions:	H 5-1/2" x W 2-7/8" (14.0 x 7.3 cm)	H 5-1/2" x W 2-7/8" (14.0 x 7.3 cm)
Shipping Weight:	3 lbs. (1.4 kg)	3 lbs. (1.4 kg) & 4 lbs. (1.8 cm)
Miscellaneous:	Micrometer Dial	

### Motorized Ball Valve

Part Number:	16-892-00	16-892-01	16-892-02	16-892-04
WSP Rating:	450 PSI (30.1 BAR)	425 PSI (29.4 BAR)	450 PSI (30.1 BAR)	425 PSI (29.4 BAR)
Materials:	Carbon Steel Bbody, 316SS Ball & Stem, 10-75 Worchester Actuator		Carbon Steel Body, 316SS Ball & Stem, 10-36 Worchester Actuator	
Plumbing:	1/2" (1.3 cm) NPT	3/4" (1.9 cm) NPT	1/2" (1.3 cm) NPT	3/4" (1.9 cm) NPT
Temperature Max:	459°F (237°C)	455°F (234°C)	459°F (237°C)	455°F (234°C)
Dimensions:	H 6-1/2" x W 8-1/2" (16.5 x 21.6 cm)		H 6-1/2" x W 7-1/2" (16.5 x 19.1 cm)	
Shipping Weight:	10 lbs. (4.5 kg)		8 lbs. (3.6 kg)	
Miscellaneous:	150 inch/lbs. Torque. Current Draw 0.7 Amps		150 inch/lbs. Torque. Current Draw 1.7 Amps	



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