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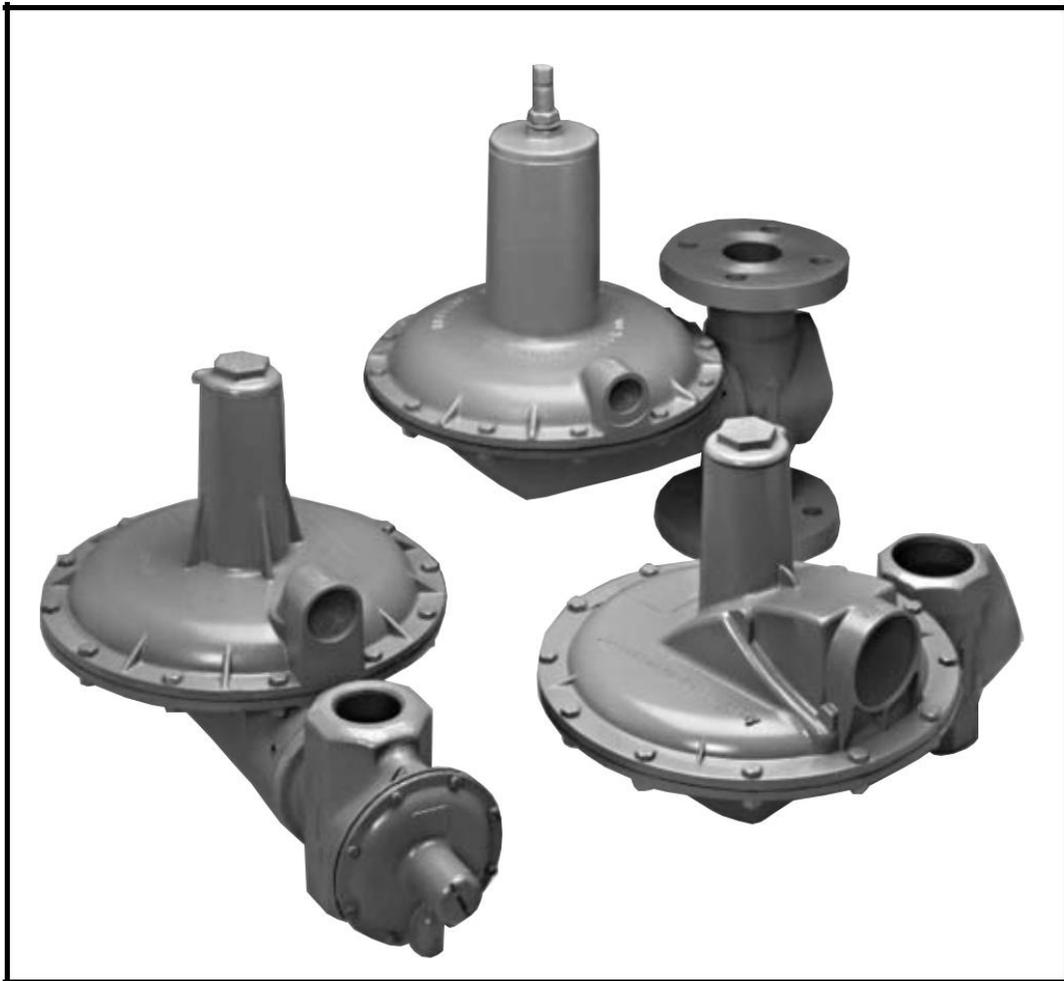
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IMP 8740.4

Industrial Regulator Series 1800/2000

Instruction Manual and Parts List



AMERICAN
METER COMPANY



Instructions: Industrial Regulator Series 1800/2000

General Information:

- Available Models – Standard Regulator, Standard Monitor Regulator, Internal Relief Valve, Full Capacity Internal Relief Valve, Underpressure Shutoff, Overpressure Shutoff. See Table 1 and identification tag on regulator.
- Available Sizes: 1-1/2- and 2-inch screwed; 2-inch ANSI - 125 Flange.
- Maximum inlet pressure, normal service (P1): Up to 125 PSIG, depending on orifice size – reference Capacity Tables found in Sales Bulletin SB8540.
- Maximum outlet pressure, normal service (P2): Depending on range spring selection, 5 PSI = 1800 Series, 15 PSI = 2000 Series. Reference Capacity Tables found in Sales Bulletin SB8540.
- Regulators with Jeavons brand overpressure shutoff (OPSO) or Jeavons brand underpressure shutoff (UPSO) should refer to AMCO documents SB 8745 and IMP 8870 for information.

Table 1 – Available Regulator Models

Low Pressure Outlet 3.5" w.c. to 5 psi*	High Pressure Outlet 1/2 to 15 psi**	Description
Model Number	Model Number	
1803	2003	Standard regulator
1803M	2003M	Standard monitor regulator
1813	–	Internal relief valve
1813B	–	Full capacity, internal relief valve
1823	2023	Underpressure shutoff
1833	–	Underpressure shutoff with internal relief
1833B	–	Underpressure shutoff with full capacity internal relief
1843	–	Overpressure shutoff with internal relief
1843B	–	Overpressure shutoff with full capacity internal relief
1853	–	Overpressure and underpressure shutoff with internal relief
1853B	–	Overpressure and underpressure shutoff with full capacity internal relief
1883	2083	Overpressure shutoff
1883M	2083M	Overpressure shutoff with monitor
1893	2093	Overpressure and underpressure shutoff

* 7 psig is available on special request.

** 20 psig is available on special request.

Preparation

1. Install, operate, inspect and maintain the regulator as outlined in American Meter's instructions and in accordance with your company's policies and applicable federal, state and local codes and laws. Installation and service must be done by qualified personnel only.
Failure to follow these instructions may result in damage to the regulator.
2. Check installation location for suitability. It is possible that physical changes have been made to the building site since the regulator and location were originally selected.

WARNING: Do not connect the inlet of the regulator to a pressure source higher than that recommended by the manufacturer. Never connect the regulator outlet to the source of pressure. Observe the flow direction on the valve head casting.

If inlet pressure can exceed the maximum regulator outlet pressure rating, some form of overpressure protection is required to prevent possible damage to the regulator and personal injury.

3. Examine regulator for shipping damage.
4. Check regulator and piping for dirt or other foreign matter which may have accumulated during shipment or handling.
5. Check data plate to determine if regulator is suitable for intended service.
6. Suitable stop valve(s) should be installed and should be conveniently located.
7. Filters are available from the manufacturer for applications where pipeline contaminants are suspected to be present.
8. Regulators may be used at temperatures between -20°F and +150°F (-30°C and 65°C).

Installation

(The numbers in parentheses refer to Figure 1.)

1. Remove all shipping plugs.
2. Use good piping practice. Be sure piping and regulator are free of dirt, pipe dope and other debris. Apply pipe dope to male threads only.
3. Install regulator. Make certain it is piped up correctly with inlet pipe connection to the inlet connection and flow is in the direction as indicated by arrow located on valve head (1). The regulator may be mounted in any position. The vent should be positioned to prevent entry of water and debris. American Meter recommends that the vent face downward. By loosening three setscrews (2), the regulator body (3) may be rotated 360° in relation to the valve head. Tighten the setscrews (2).
Inside Installations – A regulator installed within a building should be located as near as practical to the point of service line entrance.
4. Turn gas on very slowly. If an outlet stop valve is used, it should be opened first. Do not overload the diaphragm with a sudden surge of inlet pressure.

WARNING: INSIDE INSTALLATION requires a vent line of sufficient diameter to carry gas vented by the relief valve to a safe outside location, away from any opening in the building. Vent piping thread size is either 3/4, 1 or 2 inch NPT depending on model. In accordance with the American National Standard for pipe threads ANSI B2.1. Keep vent lines as short and direct as possible.

OUTSIDE INSTALLATION requires that care be taken to prevent vent opening from freezing closed or becoming blocked or permitting water to enter from any cause. Particular consideration should be given to sites where flooding, snow or freezing rain may be experienced. The vent or vent line port should point vertically downward, and overhead protection should be used where necessary.

Periodically check vent to be certain it is not obstructed.

5. Assure that there are no leaks and all connections are tight.
6. Unless otherwise specified, the 1800/2000 Regulator is pre-set at the factory with the diaphragm (4) horizontal and the springhorn vertical. Outlet pressure may vary with the diaphragm oriented in another position. To adjust the set pressure, perform the following:
 - (a) Turn gas off and depressurize the system.
 - (b) Install outlet pressure gauge. Remove seal plug (5).
 - (c) Turn gas on.
 - (d) Establish a low flow rate – 180 to 220 SCFH.
 - (e) Turn pressure spring adjustment screw (6) clockwise to increase outlet pressure or counterclockwise to decrease outlet pressure.



Instructions: Industrial Regulator Series 1800/2000

- (f) Establish the set pressure within the range limits of the pressure spring used.
 - (g) To test the regulator's ability to fully shut off (lock-up), shut off all flow downstream of the regulator. At lock-up, the outlet pressure will be somewhat higher than the set pressure. However, if the pressure continues to rise after 3 seconds, the regulator must be repaired. Observe for 30 seconds.
 - (h) When the set pressure has been properly adjusted, depressurize and remove gauge(s) and lines.
 - (i) Replace seal plug (5).
 - (j) Pressurize – check all connections for leaks.
- 5. Carefully insert the tip of a knife along the edge of the seat disc holder (9) and lift out seat disc.
 - 6. Install new disc carefully insuring that it is thoroughly seated.
 - 7. Remove O-Ring (10) from groove around valve head (1).
 - 8. Install new O-Ring in groove around valve head and apply a light film of silicone grease.
 - 9. Inspect unit for cleanliness and proper positioning of parts. Pay particular attention to proper O-Ring positioning.
 - 10. Install body to valve head. Locate vent to proper position (pointed down) and tighten valve head setscrews. Check system for leaks.
 - 11. Proceed to steps 4, 5 and 6 in the installation instructions.

Inspection And Maintenance

WARNING: If the regulator system develops a leak or vents gas, call a qualified gas serviceman promptly.

Inspection and maintenance of the 1800/2000 regulators have been simplified for practical reasons. Repair parts are offered if maintenance of the regulator is required.

Inspection of the valve seat disc (7) and orifice valve (8) may be performed in the field. Follow the procedure described below. Care should be exercised to prevent foreign matter from entering the regulator.

Procedure for inspection and replacement of valve seat disc and/or orifice if required:

1. Shut off gas supply and **depressurize the regulator system.**
2. Loosen three setscrews (2) securing the regulator body (3) to the valve head (1). Slide body off of valve head.
3. Visually check the seating edge of the orifice (8). If it is nicked or damaged, it should be replaced with a new orifice to provide proper shutoff. See maintenance instructions for replacing orifice, Page 4.
4. Inspect the surface of valve seat disc. If it is scored or uneven, replace it as outlined below.

Replacing The Diaphragm – Figure 1

1. To replace diaphragm assembly, remove body bolts and nuts (11 & 12) and lift off regulator top (13).
 2. Remove the pressure spring. Then remove the diaphragm stem nut, the upper diaphragm plate and diaphragm. Install the new diaphragm, the existing diaphragm plate and stem nut, being careful to align the diaphragm bolt holes with those in the body. Tighten the stem nut.
- Relief Models:
Remove the pressure spring, the relief valve adjustment nut and the relief valve spring. Then remove the diaphragm assembly. Install the diaphragm assembly, the existing relief valve spring and relief valve adjusting nut. Tighten adjusting nut to approximately its original position. Align diaphragm bolt holes with holes in the body.
3. Place the top over the diaphragm, with the vent in the proper position and install the bolts. Take care to prevent folds in the diaphragm between the flanges. Install range spring and tighten adjusting screw. Replace seal plug.
 4. Inspect the cleanliness and proper positioning of parts.
 5. Proceed to Steps 4, 5, 6 and 6(a) through (j) in installation instructions.

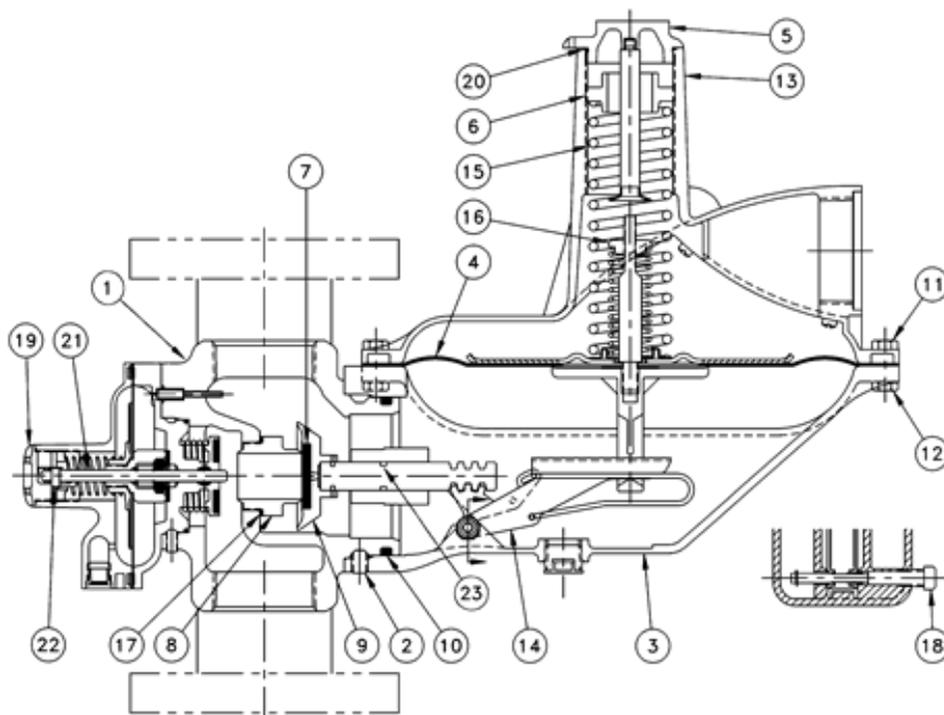


Figure 1



Instructions: Industrial Regulator Series 1800/2000

Adjusting Relief Valve – Figure 1. Models 1813, 1813B, 1833, 1833B, 1843, 1843B, 1853, 1853B

CAUTION: Do not attempt to perform the following procedure while the regulator is installed for service.

1. Plug the inlet connection of the regulator.
2. Connect an inches water column manometer or pressure gauge (depending on the range spring used) and a regulated pressure source with a needle valve on the low pressure side and an exhaust valve to a common manifold piped to the outlet of the regulator.
3. Adjust the regulated pressure source to about two times the desired relief valve set pressure.
4. Close the exhaust valve and apply pressure through the needle valve. Adjust the needle valve so that the pressure reading on the manometer or gauge raises at 3" w.c. per 10 seconds.
5. After the flow rate has been established, open the exhaust valve to release the pressure in the manifold. Close the exhaust valve. The pressure at which the manometer or gauge stabilizes is the relief valve set point.
6. To adjust the relief set point, remove the seal plug (5) and turn the relief valve nut (16) with a screwdriver; clockwise increases, counterclockwise decreases. Unless otherwise specified, factory set points are:

Spring Range	Relief Set Point
3.5 to 6" w.c.	14" w.c. ± 1.5" w.c.
5.5 to 8" w.c.	16" w.c. ± 1.5" w.c.
8.5 to 14" w.c.	22" w.c. ± 2.0" w.c.
14.5 to 28" w.c.	1.75 psi ± 2.5" w.c.
1 to 2 psi	2.2 psi ± 4.0" w.c.
2 to 3 psi	3.7 psi ± 0.25 psi
3 to 5 psi	6.3 psi ± 0.50 psi
5 to 7 psi	8.8 psi ± 0.50 psi

7. Repeat Step 5 to check new relief valve set point.

NOTE: For relief valve set points up to 100" w.c., an aspirator bulb may be substituted for the controlled pressure source and valves. Pump the bulb slowly until the manometer reads the desired set point. Pumping the bulb above the set point should cause the relief valve to crack and maintain the desired set pressure, within the limits shown above.

Replacing The Orifice – Figure 1

1. Shut off gas supply and depressurize the regulator system.
2. Loosen three setscrews (2). Slide regulator body (3) off of valve head (1). Place the regulator body aside and protect the seat disc from dirt particles.
3. Remove the orifice valve (8) and gasket (17) with a 1³/₄" hex socket wrench.
4. Carefully install new orifice and gasket and avoid nicking the orifice. Reassemble regulator body. Test for lock-up and system leaks.

CAUTION: Regulators that have an orifice size change different than shown on the data plate or seal cap must have their set pressure re-established. Mark new orifice size and set pressure on the regulator, seal cap or on its tag.

Replacing Pressure Spring – Figure 1

CAUTION: Regulators that have a pressure spring removed or replaced must have their set pressure re-established. If the pressure spring is different from that shown on the data plate or seal cap, mark spring range on the regulator, seal cap or on its tag, and cross out the old value.

1. Shut off gas supply and depressurize the regulator system.
2. Remove seal plug (5).
3. Unscrew pressure adjusting screw (6) with a 3/8" screwdriver and remove the pressure adjusting screw completely.
4. Remove the pressure spring (15). Install new pressure spring.
5. Replace the pressure adjusting screw and turn adjusting screw to mid position.
6. Proceed to Steps 4, 5 and 6(a) through (j) in installation instructions.

Resetting The Underpressure Shutoff (UPSO) Figure 1: Models 1823, 1833, 1833B, 1853, 1853B, 1893, 2023, 2093

Operation: When pressure below the main diaphragm falls below normal, the underpressure shutoff device is tripped and the spring connected to the lever assembly forces the valve against the orifice. The UPSO device must be manually reset.

Resetting: To reset, unscrew the reset shaft (18) with a wrench until it is free of the threads. Pull the shaft outward until it engages the reset mechanism. With the wrench, turn the reset shaft clockwise until the reset mechanism is engaged. Hold firm-ly in this position until normal pressure has entered under the diaphragm and the downstream line and operation is restored. Push reset shaft back in and tighten. **NOTE:** If the regulator is equipped with both OPSO and UPSO, and the OPSO is tripped, the UPSO will also trip. Reset procedure is to latch the OPSO first and then the UPSO.

Resetting The Overpressure Shutoff (OPSO) Figure 1: Models 1843, 1843B, 1853, 1853B, 1883, 1883M, 1893, 2083, 2083M, 2093

Operation: When the line pressure increases to the specified overpressure shutoff setting, the pressure under the shutoff diaphragm forces the diaphragm stem outward releasing the plunger. The shutoff spring forces the shutoff disc against the orifice.

When selecting a shutoff spring, a minimum differential of 14" water column between the normal operating pressures and the shutoff pressure setting should be provided.

Resetting: To reset the OPSO, shut off pressure, unscrew the seal cap (19) which opens the regulator orifice, permitting gas to flow. Pull the seal cap straight out until the overpressure shutoff device latches completely. The retighten the seal cap. (Do not trip the shutoff valve unless the seal cap is installed.)

OPSO Shutoff Springs

Spring Range PSI	Part Number	Color Code
14" to 28" w.c.	70017P075	Red - Purple
1 to 2 psi	70017P076	Red - Brown
2 to 3 psi	70017P077	Red - Black
3 to 5 psi	70017P078	Orange - Yellow
5 to 8 psi	70017P079	Orange - Green
8 to 14 psi (requires reducing ring)	70017P078	Orange - Yellow
14 to 20 psi (requires reducing ring)	70017P079	Orange - Green
Reducing Ring	72646P001	



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Orifice Sizes

Regulator Connection Size (Inches)	Orifice Size (Inches)	Part Number
1-1/2 and 2	1/8	72983P025
	3/16	72983P026
	1/4	72983P010
	3/8	72983P018
	1/2	72983P012
	5/8	72983P013
	3/4	72983P014
	7/8	72983P015
	1	72983P016
	1-1/4	72983P017

Remove the pressure spring adjustment screw and the pressure spring. Install a new pressure spring (see note below). Screw in the pressure spring adjustment screw until it is approximately 3/4" below the top of the spring housing.

To adjust the shutoff pressure, close the inlet to the main regulator body and slowly pressurize the outlet of the regulator, up to the desired shutoff pressure. If the OPSO mechanism trips before the desired shutoff pressure is reached, turn the adjustment screw further in, reset the OPSO and retest. If the OPSO does not trip when the desired pressure is reached, turn the adjustment screw out slowly until it does. Then reset the OPSO and check it again. Replace and retighten the cap seal making certain the spring clip on the cap seal engages the shutoff shaft.

NOTE: Series 2000 Regulators using OPSO shutoff springs with ranges of 8 to 14 PSI or 14 to 20 PSI require the use of the reducing ring shown in Figure 2. To install the reducing ring, remove the OPSO cover as described in the paragraph below. Position the reducing ring as shown and reassemble the cover.

Changing And Adjusting The OPSO Pressure Spring – Figure 1:

Unscrew the cap seal until it is loosely held on the shutoff shaft (21). Tilt and disengage the cap seal and spring clip (22) from the end of the shutoff shaft. (The spring clip should remain on the cap seal.) This exposes the pressure spring adjustment screw.

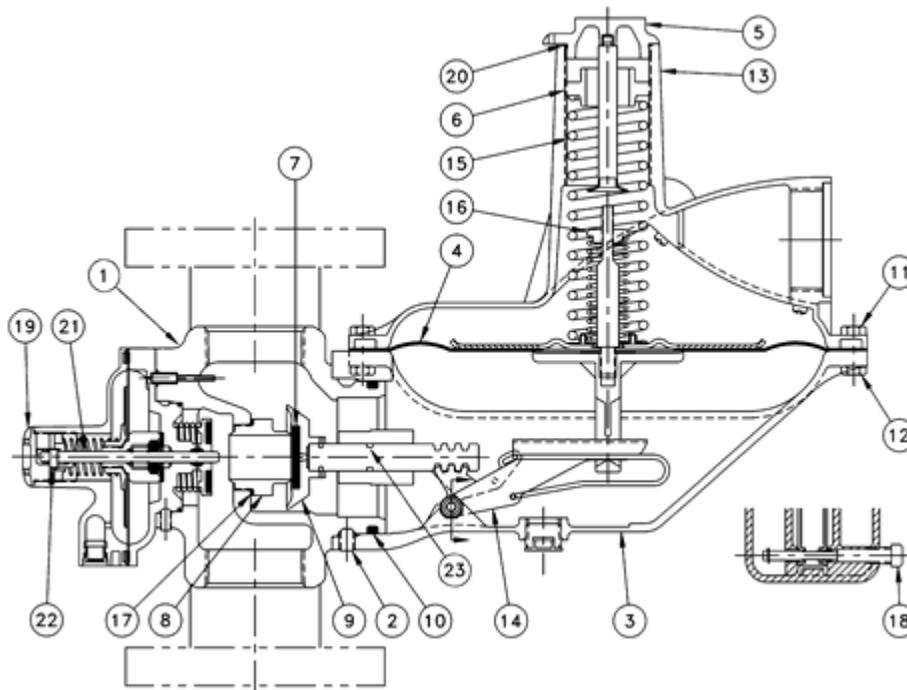


Figure 1

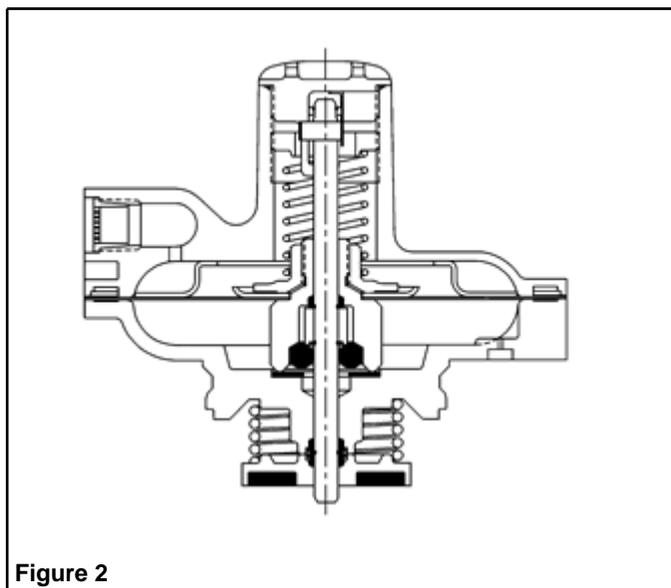


Figure 2

Rotating The OPSO Cover Vent – Figure 2:

If it is necessary to rotate the OPSO vent, first remove the cap seal. Note the position of the adjustment screw and put a pencil line on the outside of the spring housing corresponding to the top of the adjustment screw. Back out the adjustment screw until it is flush with the top of the spring housing. (This releases the tension on the OPSO pressure spring.)

Remove the eight screws on the OPSO cover and carefully lift the OPSO cover so that the diaphragm remains on the bottom casting. Rotate the vent to the desired position, and align the screw holes in the top, the diaphragm and the bottom casting. Reinstall the eight screws loosely and check that the diaphragm is flat (and not crimped) between the screw holes. Tighten the eight screws, and screw in the adjustment screw to its original position. Check and adjust the shutoff pressure as described in the above paragraphs. Replace and tighten the cap seal.



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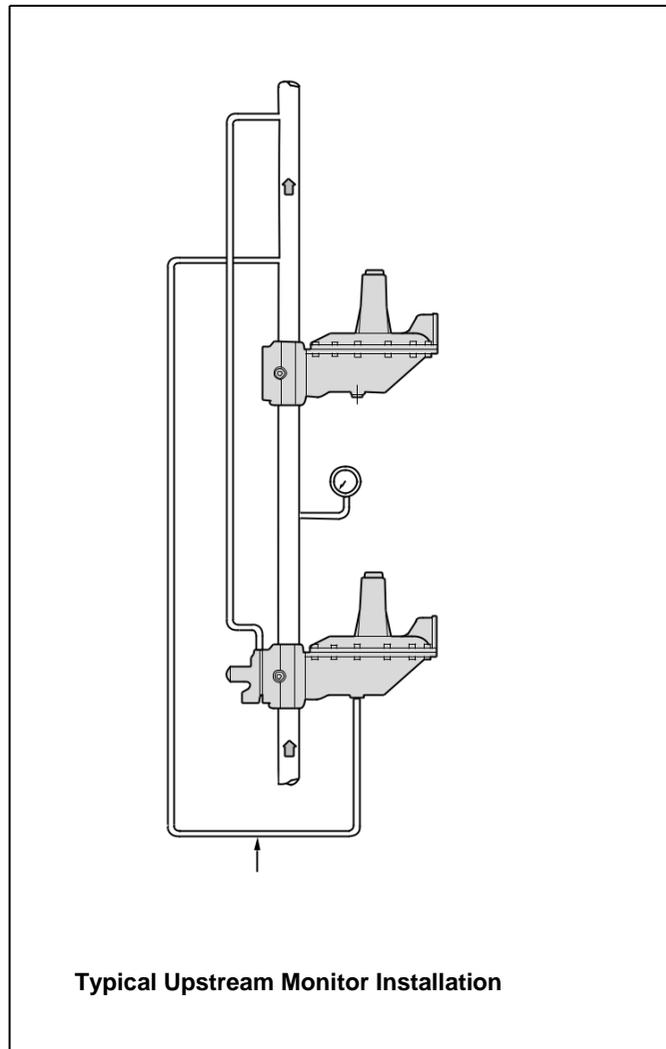
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Instructions: Industrial Regulator Series 1800/2000

Series 1800/2000 Monitor Regulators: Models 1803M, 1833M, 2003M, 2083M

A monitor regulator installation consists of a regulator with an external static connection and a regulator with an internal static connection. The regulator selected to be the monitor is set at 2" to 5" w.c. above the controlling regulator. Upstream monitoring, as shown in the sketch, is more commonly used. The external static connection should be connected at a point free of turbulence and preferably a minimum of 5 pipe diameters downstream.

NOTE: If bypass piping is included in a monitor regulator set, the control line valve must be closed before the bypass valve is opened to avoid the diaphragm from being exposed to inlet pressure.



NOTE: Design improvements now enable all 1800/2000 regulator models manufactured after January 1994 to be configured as monitor regulators. The regulators can be identified by month/year code number beginning with Code No. 1-94.

1800 And 2000 Series Monitor Conversion Instructions 73909K012 – Monitor Conversion Kit

1. Referring to Figure 1, remove the main regulator assembly (3) from the valve head (1).
2. Remove seal cap (5), main spring adjusting screw (6), and main spring (15).
3. Remove the twelve 5/16" bolts (11) holding the regulator top to the lower diaphragm chamber.
4. Remove the regulator top (13) and the diaphragm assembly (4) where it engages with the lever (14). Caution should be used not to damage the diaphragm assembly during disassembly.
5. Remove the lever (14) and plunger (22).
6. Degrease plunger and install plunger O-Ring (23).
7. Lubricate plunger and O-Ring assembly using O-Ring grease or all-purpose silicone grease and reinstall plunger and lever.
8. Install diaphragm assembly by engaging the lever into the diaphragm stem.
9. Position regulator top over the main diaphragm and line up three of the bolts holding the top, the main diaphragm and lower diaphragm chamber, insert three bolts. Line up and install the remaining nine. Install the twelve nuts and torque to 120 inch pounds.
10. Install the main spring and adjusting screw; replace the seal cap.
11. Remove the seat disc assembly (9) from the plunger.
12. Assemble the two remaining O-Rings and the isolation plate and lubricate using O-Ring grease or all-purpose silicone grease.
13. Install the isolation plate around the plunger guide.
14. Reinstall the seat disc assembly (9).
15. Lubricate the inside bore of the valve head as well as the outside O-Ring with O-Ring grease or all-purpose silicone grease. Attach the regulator to the valve head and torque the three retaining screws (2) to 75 inch pounds.
16. Proceed to steps 4, 5 and 6(a) through (j) in installation instructions, and OPSO and UPSO resetting instructions if so required.

NOTE: If the regulator to be converted has an OPSO it will be necessary to change the OPSO to a monitor version with an external sensing port and pipe it as shown in the figure to the left.



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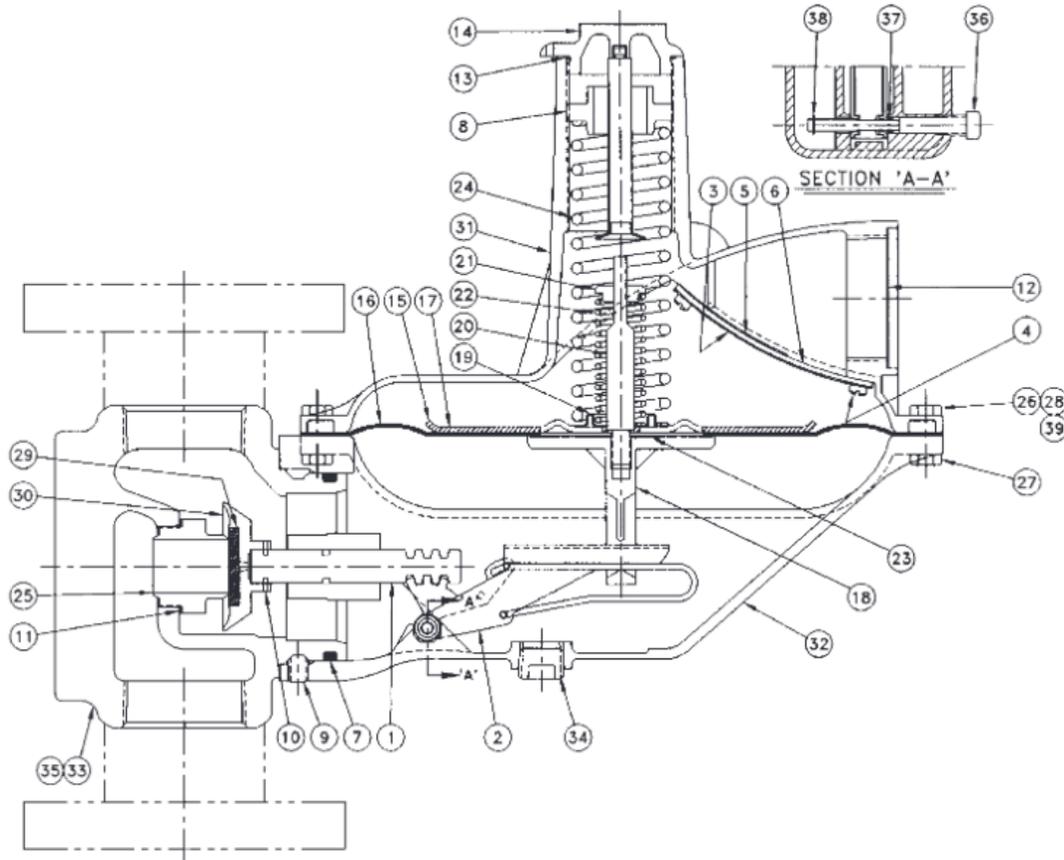
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American 1 1/2" and 2" Model 1833B Industrial Regulator



Item No.	Part No.	DESCRIPTION	Qty.	Used In Regs Built		Item No.	Part No.	DESCRIPTION	Qty.	Used In Regs Built	
				Before	After					Before	After
1	72627P001	Valve Plunger	1			27	78020P003	Nut, Body Bolt 5/16" - 24 (Standard)	12		
2	72626G002	Lever	1			27	78019P013	Nut, Body Bolt 5/16" - 18	12		
3	73055P001	Vent Flapper Retainer	1			28	78071P041	Tag, Relief Valve Setting	1		
4	78008P006	Screw, Vent Flapper Retainer	1			29	70041P071	Disc, Valve Seat - Buna N - 60 Duro	1		
5	73060P001	Vent Flapper	1			29	70041P072	Disc, Valve Seat - Buna N - 70 Duro (Standard)	1		
6	73063P001	Spring, Vent Flapper	1			29	70041P073	Disc, Valve Seat - Buna N - 80 Duro	1		
7	42710P161	"O" Ring, Valve Head	1			29	70041P133	Disc, Valve Seat - Viton A - 70 Duro	1		
8	73183P001	Adjustment Screw	1			30	72624P001	Holder, Seat Disc - 2" Regulator			
9	78014P006	Setscrew, Valve Head	3					- with 1/4" thru 7/8" Orifice Sizes (SILVER)	1		
10	72858P001	Retainer, Seat Disc Holder	1			30	72624P002	Holder, Seat Disc - 2" Regulator			
11	70019P094	Gasket, Valve	1					- with 7/8" thru 1-1/4" Orifice Sizes (BLUE)	1		
12	70400P015	Screen, Vent	1			30	72624P001	Holder, Seat Disc - 1-1/2" Regulator			
13	42710P107	"O" Ring, Seal Plug	1					- All Orifice Sizes (SILVER)	1		
14	72357G003	Seal Plug Assembly	1			31	73053P011	Top, Regulator - without Seal Wire Hole (Standard)			
15	70014G001	Diaphragm Assembly Complete (Incl. Items 16-23)	1					- BSP - TR Thread	1		
15	70014G006	Diaphragm Assy, Complete, Opt Springfield Diaph.			1/1/94	31	73053P007	Top, Regulator - without Seal Wire Hole (Standard)			
15	74079G013	Diaphragm and Plate Assy, Opt Springfield Diaph.			1/1/94			- NPT Thread	1		
16	70014P168	Diaphragm	1	4/1/94		31	73053P012	Top, Regulator - with Seal Wire Hole			
16	70014P203	Diaphragm	1		4/1/94			- BSP - TR Thread	1		
17	73057P002	Plate, Diaphragm*	1		4/1/94	31	73053P008	Top, Regulator - with Seal Wire Hole			
18	72629P005	Stem, Diaphragm*	1		4/1/94			- NPT Thread	1		
19	73175P001	Spring Locator	1			32	72628P004	Body, Regulator BSP - TR Thread	1		
20	73058P001	Stem, Relief Valve	1			32	72628P003	Body, Regulator NPT Thread	1		
21	71533P001	Nut, R.V. Spring Adjustment	1			33	72619P066	Head, Valve - 1-1/2" x 1-1/2"			
22	70017P074	Spring, Relief Valve (BLACK-ORANGE)	1					- BSP - TR Thread (Ductile Iron)	1		
23	13981P076	Flat Washer	1			33	72619P072	Head, Valve - 1-1/2" x 1-1/2"			
24	71424P017	Spring, Pressure 3.5" - 6" w.c. (RED)	1					- NPT Thread (Ductile Iron)	1		
24	71424P018	Spring, Pressure 5.5" - 8" w.c. (ORANGE)	1			33	72619P073	Head, Valve - 2" x 2"			
24	71424P019	Spring, Pressure 8" - 14" w.c. (YELLOW)	1					- BSP - TR Thread (Ductile Iron)	1		
24	71424P020	Spring, Pressure 14.5" - 28" w.c. (GREEN)	1			33	72619P074	Head, Valve - 2" x 2"			
24	71424P021	Spring, Pressure 1# - 2# (ROYAL BLUE)	1					- NPT Thread (Ductile Iron)	1		
24	71424P026	Spring, Pressure 1.5# - 2.5# (BROWN-ROY. BLUE)	1			33	72992P011	Head, Valve - 2" Class 125 Flanged (Ductile Iron)	1		
24	71424P022	Spring, Pressure 2# - 3# (BROWN-GREEN)	1			33	72992P012	Head, Valve - 2" Metric Flanged (Ductile Iron)	1		
24	71424P023	Spring, Pressure 3# - 5# (BLACK-GREEN)	1			34	11970P031	Plug, Body - 1/2" NPT	1		1/1/94
24	71424P027	Spring, Pressure 5# - 7# (RED-GREEN)	1			34	11970P032	Plug, Body - 1/2" BSP - TR	1		1/1/94
25	72983P025	Valve - 1/8" Orifice (Low Flow Applications)	1			35	11970P033	Plug, Valve Head - 1/4" NPT	1		1/1/94
25	72983P026	Valve - 3/16" Orifice (Low Flow Applications)	1			35	11970P034	Plug, Valve Head - 1/4" BSP - TR	1		1/1/94
25	72983P010	Valve - 1/4" Orifice	1			36	72943G001	Drive Shaft Assembly	1		
25	72983P018	Valve - 3/8" Orifice	1			37	73381P001	Drive Shaft Washer	1		
25	72983P012	Valve - 1/2" Orifice	1			38	78074P016	"E" Ring, Drive Shaft	1		
25	72983P013	Valve - 5/8" Orifice	1			39	73784P001	Instruction Tag	1		
25	72983P014	Valve - 3/4" Orifice	1			40	78482P013	NOT SHOWN Label, Main Tower (White Adhesive)			
25	72983P015	Valve - 7/8" Orifice	1			41	78071P073	NOT SHOWN Label, Metal (Stampable)			
25	72983P016	Valve - 1" Orifice	1			42	44677P634	NOT SHOWN Label, Springfield Dia. (White Adhes.)			
25	72983P017	Valve - 1-1/4" Orifice	1								
26	78001P032	Bolt, Body 5/16" - 24 x 1-1/8" Hex. Hd. (Standard)	12								
26	78000P021	Bolt, Body 5/16" - 18 x 1.00"	12								

*For regulators built before April 1, 1994, Item 15 must be purchased instead.



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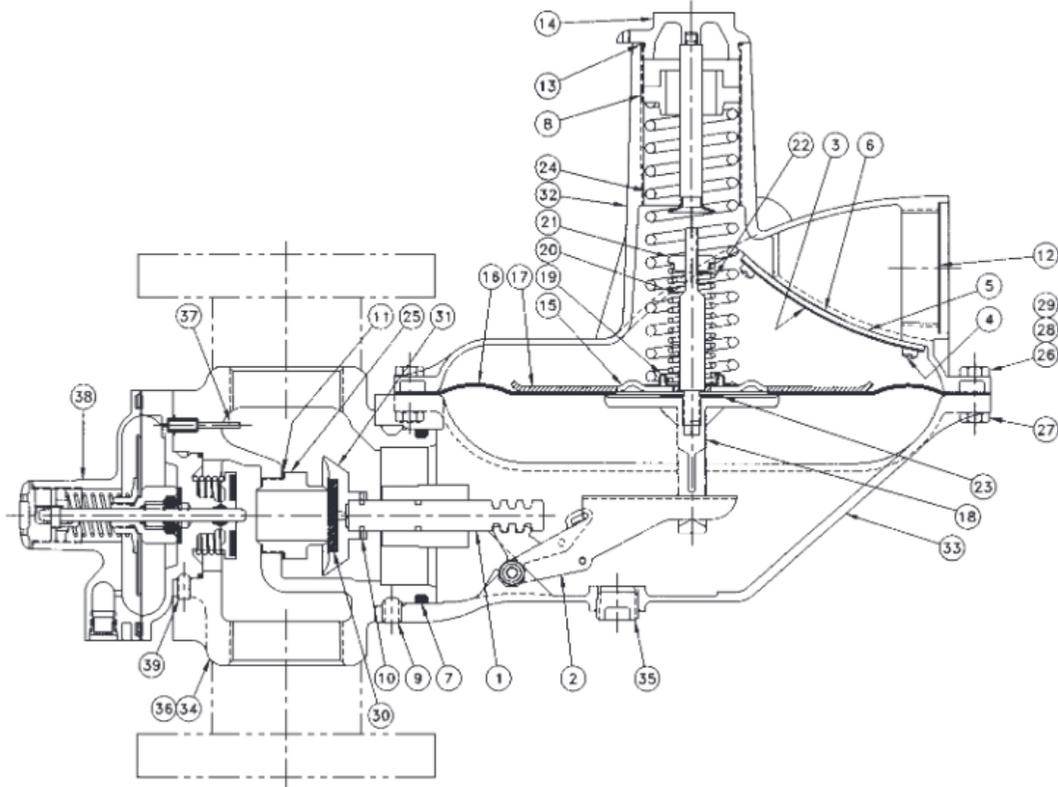
ADD FURNACE CO.,LTD.

44 ซอยบรมราชชนนี 70 ถนนบรมราชชนนี แขวงศาลาธรรมสพน์ เขตทวีวัฒนา กรุงเทพฯ 10170

โทร: 02-888-3472 โทร: ออกแบบ:08-08-170-170 แฟกซ์: 02-888-3258

https://www.add-furnace.com E-mail: sales@add-furnace.com

American 1 1/2" and 2" Model 1843B Industrial Regulator



Item No.	Part No.	DESCRIPTION	Qty.	Used In Regs Built		Item No.	Part No.	DESCRIPTION	Qty.	Used In Regs Built	
				Before	After					Before	After
1	72627P001	Valve Plunger	1			30	70041P072	Disc, Valve Seat – Buna N – 70 Duro (Standard)	1		
2	72626G001	Lever	1			30	70041P073	Disc, Valve Seat – Buna N – 80 Duro	1		
3	73055P001	Vent Flapper Retainer	1			30	70041P133	Disc, Valve Seat – Viton A – 70 Duro	1		
4	78008P006	Screw, Vent Flapper Retainer	4			31	72624P001	Holder, Seat Disc – 2" Regulator	1		
5	73060P001	Vent Flapper	1					– with 7/8" thru 1-1/4" Orifice Sizes (SILVER)	1		
6	73063P001	Spring, Vent Flapper	1			31	72624P003	Holder, Seat Disc – 2" Regulator	1		
7	42710P161	"O" Ring, Valve Head	1					– with 1/4" thru 7/8" Orifice Sizes (RED)	1		
8	73183P001	Adjustment Screw	1			31	72624P001	Holder, Seat Disc – 1-1/2" Regulator	1		
9	78014P006	Setscrew, Valve Head	3					– All Orifice Sizes (SILVER)	1		
10	72858P001	Retainer, Seat Disc Holder	1			32	73053P011	Top, Regulator – without Seal Wire Hole (Standard)	1		
11	70019P094	Gasket, Valve	1					– BSP – TR Thread	1		
12	70400P015	Screen, Vent	1			32	73053P007	Top, Regulator – without Seal Wire Hole (Standard)	1		
13	42710P107	"O" Ring, Seal Plug	1					– NPT Thread	1		
14	72357G003	Seal Plug Assembly	1			32	73053P012	Top, Regulator – with Seal Wire Hole	1		
15	70014G001	Diaphragm Assembly Complete (Incl. Items 16-23)	1					– BSP – TR Thread	1		
15	70014G006	Diaphragm Assy, Complete, Opt Springfield Diaph.	1		1/1/94	32	73053P008	Top, Regulator – with Seal Wire Hole	1		
15	74079G013	Diaphragm and Plate Assy, Opt Springfield Diaph.	1		1/1/94			– NPT Thread	1		
16	70014P168	Diaphragm	1	4/1/94		33	72628P002	Body, Regulator BSP – TR Thread	1		
16	70014P203	Diaphragm	1		4/1/94	33	72628P001	Body, Regulator NPT Thread	1		
17	73057P002	Plate, Diaphragm*	1		4/1/94	34	72972P032	Head, Valve – 1-1/2" x 1-1/2"	1		
18	72629P005	Stem, Diaphragm*	1		4/1/94			– BSP – TR Thread (Ductile Iron)	1		
19	73175P001	Spring Locator	1			34	72972P033	Head, Valve – 1-1/2" x 1-1/2"	1		
20	73058P001	Stem, Relief Valve	1					– NPT Thread (Ductile Iron)	1		
21	71533P001	Nut, R.V. Spring Adjustment	1			34	72972P034	Head, Valve – 2" x 2"	1		
22	70017P074	Spring, Relief Valve (BLACK-ORANGE)	1					– BSP – TR Thread (Ductile Iron)	1		
23	13981P076	Flat Washer	1			34	72972P035	Head, Valve – 2" x 2"	1		
24	71424P017	Spring, Pressure 3.5" - 6" w.c. (RED)	1					– NPT Thread (Ductile Iron)	1		
24	71424P018	Spring, Pressure 5.5" - 8" w.c. (ORANGE)	1			34	72992P015	Head, Valve – 2" Class 125 Flanged (Ductile Iron)	1		
24	71424P019	Spring, Pressure 8" - 14" w.c. (YELLOW)	1			34	72992P016	Head, Valve – 2" Metric Flanged (Ductile Iron)	1		
24	71424P020	Spring, Pressure 14.5" - 28" w.c. (GREEN)	1			35	11970P031	Plug – 1/2" NPT	1		1/1/94
24	71424P021	Spring, Pressure 1# - 2# (ROYAL BLUE)	1			35	11970P032	Plug – 1/2" BSP – TR	1		1/1/94
24	71424P026	Spring, Pressure 1.5# - 2.5# (BROWN-ROY. BLUE)	1			36	11970P033	Plug – 1/4" NPT	1		1/1/94
24	71424P022	Spring, Pressure 2# - 3# (BROWN-GREEN)	1			36	11970P034	Plug – 1/4" BSP – TR	1		1/1/94
24	71424P023	Spring, Pressure 3# - 5# (BLACK-GREEN)	1			37	72778P004	Tube, Valve Head – For All 2" Models	1		
24	71424P027	Spring, Pressure 5# - 7# (RED-GREEN)	1			37	72778P003	Tube, Valve Head – For All 2" Models	1		
25	72983P025	Valve – 1/8" Orifice (Low Flow Applications)	1			38	72986G029	Assembly, OPSO 14" - 28" w/Buna N Seat Disc	1		
25	72983P026	Valve – 3/16" Orifice (Low Flow Applications)	1			38	72986G030	Assembly, OPSO 1# - 2# w/Buna N Seat Disc	1		
25	72983P010	Valve – 1/4" Orifice	1			38	72986G031	Assembly, OPSO 2# - 3# w/Buna N Seat Disc	1		
25	72983P018	Valve – 3/8" Orifice	1			38	72986G032	Assembly, OPSO 3# - 5# w/Buna N Seat Disc	1		
25	72983P012	Valve – 1/2" Orifice	1			38	72986G033	Assembly, OPSO 5# - 8# w/Buna N Seat Disc	1		
25	72983P013	Valve – 5/8" Orifice	1			38	72986G036	Assembly, OPSO 14" - 28" w/Viton A Seat Disc	1		
25	72983P014	Valve – 3/4" Orifice	1			38	72986G037	Assembly, OPSO 1# - 2# w/Viton A Seat Disc	1		
25	72983P015	Valve – 7/8" Orifice	1			38	72986G038	Assembly, OPSO 2# - 3# w/Viton A Seat Disc	1		
25	72983P016	Valve – 1" Orifice	1			38	72986G039	Assembly, OPSO 3# - 5# w/Viton A Seat Disc	1		
25	72983P017	Valve – 1-1/4" Orifice	1			38	72986G040	Assembly, OPSO 5# - 8# w/Viton A Seat Disc	1		
26	78001P032	Bolt, Body 5/16" – 24 x 1-1/8" Hex. Hd. (Standard)	12					See Page 22 For OPSO Parts			
26	78000P021	Bolt, Body 5/16" – 18 x 1.00"	12			39	78014P007	Setscrew, OPSO to Valve Head	4		
27	78020P003	Nut, Body Bolt 5/16" – 24 (Standard)	12			40	78482P013	NOT SHOWN Label, Main Tower (White Adhesive)			
27	78019P013	Nut, Body Bolt 5/16" – 18	12			41	78071P073	NOT SHOWN Label, Metal (Stampable)			
28	78071P041	Tag, Relief Valve Setting	1			42	44677P634	NOT SHOWN Label, Springfield Dia. (White Adhes.)			
29	73784P001	Instruction Tag	1								
30	70041P071	Disc, Valve Seat – Buna N – 60 Duro	1								

*For regulators built before April 1, 1994, Item 15 must be purchased instead.



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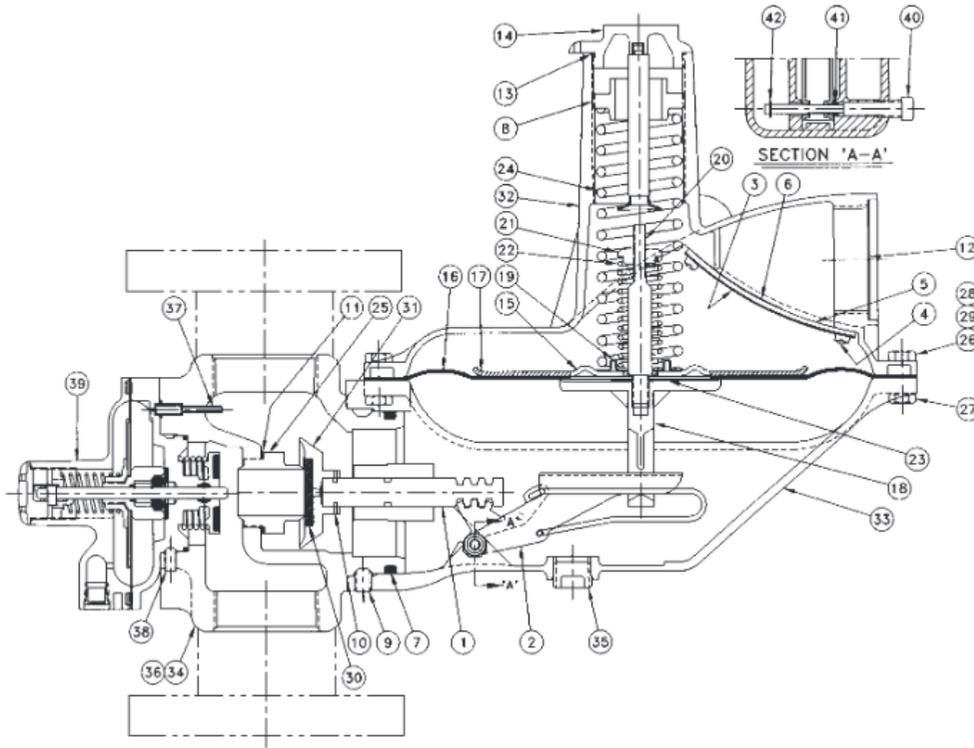
ADD FURNACE CO.,LTD.

44 ซอยบรมราชชนนี 70 ถนนบรมราชชนนี แขวงศาลาธรรมสพน์ เขตทวีวัฒนา กรุงเทพฯ 10170

โทร: 02-888-3472 โทร: ออกแบบ:08-08-170-170 แฟกซ์: 02-888-3258

https://www.add-furnace.com E-mail: sales@add-furnace.com

American 1 1/2" and 2" Model 1853B Industrial Regulator



Item No.	Part No.	DESCRIPTION	Qty.	Used In Regs Built		Item No.	Part No.	DESCRIPTION	Qty.	Used In Regs Built	
				Before	After					Before	After
1	72627P001	Valve Plunger	1			30	70041P133	Disc, Valve Seat – Viton A – 70 Duro	1		
2	72626G002	Lever	1			31	72624P001	Holder, Seat Disc – 2" Regulator – with 7/8" thru 1-1/4" Orifice Sizes (SILVER)	1		
3	73055P001	Vent Flapper Retainer	1			31	72624P003	Holder, Seat Disc – 2" Regulator – with 1/4" thru 7/8" Orifice Sizes (RED)	1		
4	78008P006	Screw, Vent Flapper Retainer	4			31	72624P001	Holder, Seat Disc – 1-1/2" Regulator – All Orifice Sizes (SILVER)	1		
5	73060P001	Vent Flapper	1			32	73053P011	Top, Regulator – without Seal Wire Hole (Standard) – BSP – TR Thread	1		
6	73063P001	Spring, Vent Flapper	1			32	73053P007	Top, Regulator – without Seal Wire Hole (Standard) – NPT Thread	1		
7	42710P161	"O" Ring, Valve Head	1			32	73053P012	Top, Regulator – with Seal Wire Hole – BSP – TR Thread	1		
8	73183P001	Adjustment Screw	1			32	73053P008	Top, Regulator – with Seal Wire Hole – NPT Thread	1		
9	78014P006	Setscrew, Valve Head	3			33	72628P004	Body, Regulator BSP – TR Thread	1		
10	72858P001	Retainer, Seat Disc Holder	1			33	72628P003	Body, Regulator NPT Thread	1		
11	70019P094	Gasket, Valve	1			34	72972P032	Head, Valve – 1-1/2" x 1-1/2" – BSP – TR Thread (Ductile Iron)	1		
12	70400P015	Screen, Vent	1			34	72972P033	Head, Valve – 1-1/2" x 1-1/2" – NPT Thread (Ductile Iron)	1		
13	42710P107	"O" Ring, Seal Plug	1			34	72972P034	Head, Valve – 2" x 2" – BSP – TR Thread (Ductile Iron)	1		
14	72357G003	Seal Plug Assembly	1			34	72972P035	Head, Valve – 2" x 2" – NPT Thread (Ductile Iron)	1		
15	70014G001	Diaphragm Assembly Complete	1			34	72992P015	Head, Valve – 2" Class 125 Flanged (Ductile Iron)	1		
15	70014G006	Diaphragm Assy, Complete, Opt Springfield Diaph.			1/1/94	34	72992P016	Head, Valve – 2" Metric Flanged (Ductile Iron)	1		
15	74079G013	Diaphragm and Plate Assy, Opt Springfield Diaph.			1/1/94	35	11970P031	Plug – 1/2" NPT (Body)	1		1/1/94
16	70014P168	Diaphragm	1	4/1/94		35	11970P032	Plug – 1/2" BSP – TR (Body)	1		1/1/94
16	70014P203	Diaphragm	1		4/1/94	36	11970P033	Plug – 1/4" NPT (Valve Head)	1		1/1/94
17	73057P002	Plate, Diaphragm*	1		4/1/94	36	11970P034	Plug – 1/4" BSP – TR (Valve Head)	1		1/1/94
18	72629P005	Stem, Diaphragm*	1		4/1/94	37	72778P004	Tube, Valve Head – For All 2" Models	1		
19	73175P001	Spring Locator	1			37	72778P003	Tube, Valve Head – For All 2" Models	1		
20	73058P001	Stem, Relief Valve	1			38	78014P007	Setscrew, OPSO Valve Head	4		
21	71533P001	Nut, R.V. Spring Adjustment	1			39	72986G029	Assembly, OPSO 14" – 28" w/Buna N Seat Disc	1		
22	70017P074	Spring, Relief Valve (BLACK-ORANGE)	1			39	72986G030	Assembly, OPSO 1# – 2# w/Buna N Seat Disc	1		
23	13981P076	Flat Washer	1			39	72986G031	Assembly, OPSO 2# – 3# w/Buna N Seat Disc	1		
24	71424P017	Spring, Pressure 3.5" – 6" w.c. (RED)	1			39	72986G032	Assembly, OPSO 3# – 5# w/Buna N Seat Disc	1		
24	71424P018	Spring, Pressure 5.5" – 8" w.c. (ORANGE)	1			39	72986G033	Assembly, OPSO 5# – 8# w/Buna N Seat Disc	1		
24	71424P019	Spring, Pressure 8" – 14" w.c. (YELLOW)	1			39	72986G036	Assembly, OPSO 14" – 28" w/Viton A Seat Disc	1		
24	71424P020	Spring, Pressure 14.5" – 28" w.c. (GREEN)	1			39	72986G037	Assembly, OPSO 1# – 2# w/Viton A Seat Disc	1		
24	71424P021	Spring, Pressure 1# – 2# (ROYAL BLUE)	1			39	72986G038	Assembly, OPSO 2# – 3# w/Viton A Seat Disc	1		
24	71424P022	Spring, Pressure 2# – 3# (BROWN-GREEN)	1			39	72986G039	Assembly, OPSO 3# – 5# w/Viton A Seat Disc	1		
24	71424P023	Spring, Pressure 3# – 5# (BLACK-GREEN)	1			39	72986G040	Assembly, OPSO 5# – 8# w/Viton A Seat Disc	1		
24	71424P026	Spring, Pressure 1.5# – 2.5# (BROWN-ROY. BLUE)	1					See Page 22 For OPSO Parts			
24	71424P027	Spring, Pressure 5# – 7# (RED-GREEN)	1			40	72943G001	Assembly, Drive Shaft	1		
25	72983P025	Valve – 1/8" (Low Flow Applications)				41	73381P001	Washer, Drive Shaft	1		
25	72983P026	Valve – 3/16" (Low Flow Applications)				42	78074P016	"E" Ring, Drive Shaft	1		
25	72983P010	Valve – 1/4" Orifice	1			43	74882P013	NOT SHOWN Label, Main Tower (White Adhesive)			
25	72983P018	Valve – 3/8" Orifice	1			44	78071P073	NOT SHOWN Label, Metal (Stampable)			
25	72983P012	Valve – 1/2" Orifice	1			45	44677P634	NOT SHOWN Label, Springfield Dia. (White Adhes.)			
25	72983P013	Valve – 5/8" Orifice	1								
25	72983P014	Valve – 3/4" Orifice	1								
25	72983P015	Valve – 7/8" Orifice	1								
25	72983P016	Valve – 1" Orifice	1								
25	72983P017	Valve – 1-1/4" Orifice	1								
26	78001P032	Bolt, Body 5/16" – 24 x 1-1/8" Hex. Hd. (Standard)	12								
26	78000P021	Bolt, Body 5/16" – 18 x 1.00"	12								
27	78020P003	Nut, Body Bolt 5/16" – 24 (Standard)	12								
27	78019P013	Nut, Body Bolt 5/16" – 18	12								
28	78071P041	Tag, Relief Valve Setting	1								
29	73786P001	Instruction Tag	1								
30	70041P071	Disc, Valve Seat – Buna N – 60 Duro	1								
30	70041P072	Disc, Valve Seat – Buna N – 70 Duro (Standard)	1								
30	70041P073	Disc, Valve Seat – Buna N – 80 Duro	1								

*For regulators built before April 1, 1994, Item 15 must be purchased instead.



บริษัท เอดีดี เฟอร์เนส จำกัด

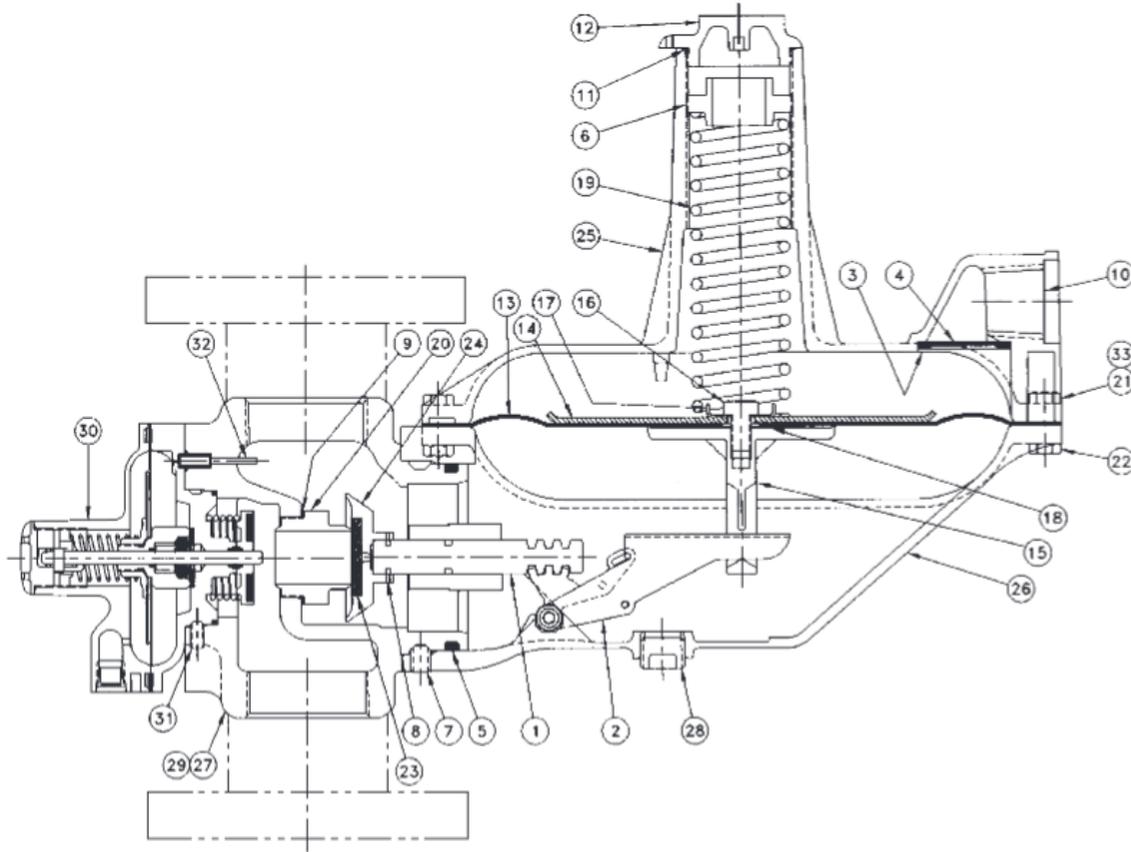
ADD FURNACE CO.,LTD.

44 ซอยบรมราชชนนี 70 ถนนบรมราชชนนี แขวงสาทรธรรมสพน์ เขตทวีวัฒนา กรุงเทพฯ 10170

โทร: 02-888-3472 โทร: ออกแบบ:08-08-170-170 แฟกซ์: 02-888-3258

https://www.add-furnace.com E-mail: sales@add-furnace.com

American 1 1/2" and 2" Model 1883 Industrial Regulator



Item No.	Part No.	DESCRIPTION	Qty.	Used In Regs Built		Item No.	Part No.	DESCRIPTION	Qty.	Used In Regs Built	
				Before	After					Before	After
1	72627P001	Valve Plunger	1			24	72624P003	Holder, Seat Disc - 2" Regulator			
2	72626G001	Lever	1					- with 7/8" thru 1-1/4" Orifice Sizes (RED)	1		
3	71876P005	Vent Flapper Retainer	1			24	72624P001	Holder, Seat Disc - 1-1/2" Regulator	1		
4	72770P002	Vent Flapper	1					- All Orifice Sizes (SILVER)	1		
5	42710P161	"O" Ring, Body to Valve Head	1			25	73579P011	Top, Regulator - without Seal Wire Hole (Standard)			
6	73183P001	Adjustment Screw	1					- BSP - TR Thread	1		
7	78014P006	Setscrew, Valve Head	3			25	73579P007	Top, Regulator - without Seal Wire Hole (Standard)			
8	72858P001	Retainer, Seat Disc Holder	1					- NPT Thread	1		
9	70019P094	Gasket, Valve	1			25	73579P012	Top, Regulator - with Seal Wire Hole			
10	70400P013	Screen, Vent	1					- BSP - TR Thread	1		
11	42710P107	"O" Ring, Seal Plug	1			25	73579P008	Top, Regulator - with Seal Wire Hole			
12	70103P001	Seal Plug	1					- NPT Thread	1		
13	70014P143	Diaphragm	1			26	72628P002	Body, Regulator BSP - TR Thread	1		
14	70012P052	Plate, Diaphragm	1			26	72628P001	Body, Regulator NPT Thread	1		
15	72629P005	Stem, Diaphragm	1			27	72972P032	Head, Valve - 1-1/2" x 1-1/2"			
16	78000P081	Screw, Diaphragm Stem	1					- BSP - TR Thread (Ductile Iron)	1		
17	72272P001	Guide, Spring	1			27	72972P033	Head, Valve - 1-1/2" x 1-1/2"			
18	13981P076	Flat Washer	1					- NPT Thread (Ductile Iron)	1		
19	71424P017	Spring, Pressure 3.5" - 6" w.c. (RED)	1			27	72972P034	Head, Valve - 2" x 2"			
19	71424P018	Spring, Pressure 5.5" - 8" w.c. (ORANGE)	1					- BSP - TR Thread (Ductile Iron)	1		
19	71424P019	Spring, Pressure 8" - 14" w.c. (YELLOW)	1			27	72972P035	Head, Valve - 2" x 2"			
19	71424P020	Spring, Pressure 14.5" - 28" w.c. (GREEN)	1					- NPT Thread (Ductile Iron)	1		
19	71424P021	Spring, Pressure 1# - 2# (ROYAL BLUE)	1			27	72992P015	Head, Valve - 2" Class 125 Flanged (Ductile Iron)	1		
19	71424P026	Spring, Pressure 1.5# - 2.5# (BROWN-ROY. BLUE)	1			27	72992P016	Head, Valve - 2" Metric Flanged (Ductile Iron)	1		
19	71424P022	Spring, Pressure 2# - 3# (BROWN-GREEN)	1			28	11970P031	Plug, Body - 1/2" NPT	1		1/1/94
19	71424P023	Spring, Pressure 3# - 5# (BLACK-GREEN)	1			28	11970P032	Plug, Body - 1/2" BSP - TR	1		1/1/94
19	71424P027	Spring, Pressure 5# - 7# (RED-GREEN)	1			29	11970P033	Plug, Valve Head - 1/4" NPT	1		1/1/94
20	72983P025	Valve - 1/8" (Low Flow Applications)				29	11970P034	Plug, Valve Head - 1/4" BSP - TR	1		1/1/94
20	72983P026	Valve - 3/16" (Low Flow Applications)				30	72986G029	Assembly, OPSO 14" - 28" w/Buna N Seat Disc	1		
20	72983P010	Valve - 1/4" Orifice	1			30	72986G030	Assembly, OPSO 1# - 2# w/Buna N Seat Disc	1		
20	72983P018	Valve - 3/8" Orifice	1			30	72986G031	Assembly, OPSO 2# - 3# w/Buna N Seat Disc	1		
20	72983P012	Valve - 1/2" Orifice	1			30	72986G032	Assembly, OPSO 3# - 5# w/Buna N Seat Disc	1		
20	72983P013	Valve - 5/8" Orifice	1			30	72986G033	Assembly, OPSO 5# - 8# w/Buna N Seat Disc	1		
20	72983P014	Valve - 3/4" Orifice	1			30	72986G036	Assembly, OPSO 14" - 28" w/Viton A Seat Disc	1		
20	72983P015	Valve - 7/8" Orifice	1			30	72986G037	Assembly, OPSO 1# - 2# w/Viton A Seat Disc	1		
20	72983P016	Valve - 1" Orifice	1			30	72986G038	Assembly, OPSO 2# - 3# w/Viton A Seat Disc	1		
20	72983P017	Valve - 1-1/4" Orifice	1			30	72986G039	Assembly, OPSO 3# - 5# w/Viton A Seat Disc	1		
21	78001P032	Bolt, Body 5/16" - 24 x 1-1/8" Hex. Hd. (Standard)	12			30	72986G040	Assembly, OPSO 5# - 8# w/Viton A Seat Disc	1		
21	78000P021	Bolt, Body 5/16" - 18 x 1.00"	12					See Page 22 For OPSO Parts			
22	78020P003	Nut, Body Bolt 5/16" - 24 (Standard)	12			31	78014P007	Setscrew, OPSO Valve Head (1/2 - 20 x .50 Lg.)	4		
22	78019P013	Nut, Body Bolt 5/16" - 18	12			32	72778P004	Tube, For All 1-1/2" Models (Only)	1		
23	70041P071	Disc, Valve Seat - Buna N - 60 Duro	1			32	72778P003	Tube, For All 2" Models (Only)	1		
23	70041P072	Disc, Valve Seat - Buna N - 70 Duro (Standard)	1			33	73787P001	Instruction Tag	1		
23	70041P073	Disc, Valve Seat - Buna N - 80 Duro	1			34	78482P013	NOT SHOWN Label, Main Tower (White Adhesive)			
23	70041P133	Disc, Valve Seat - Viton A - 70 Duro	1			35	78071P073	NOT SHOWN Label, Metal (Stampable)			
24	72624P001	Holder, Seat Disc - 2" Regulator	1					- with 1/4" thru 7/8" Orifice Sizes (SILVER)			



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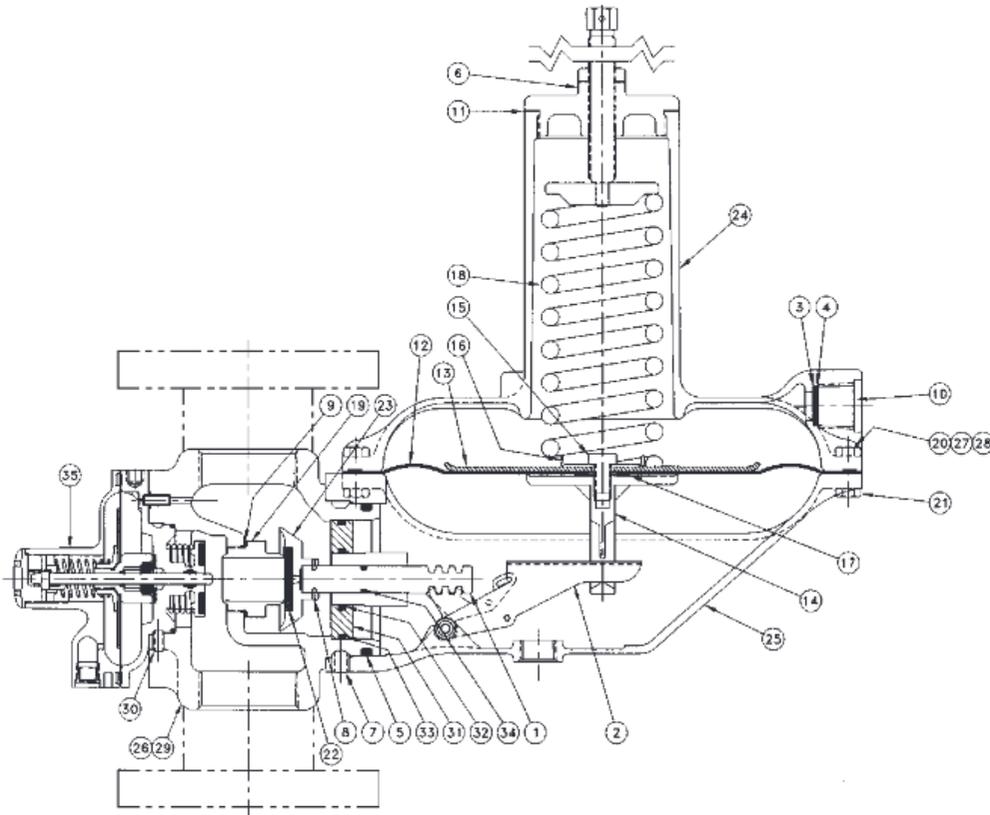
ADD FURNACE CO.,LTD.

44 ซอยบรมราชชนนี 70 ถนนบรมราชชนนี แขวงสาทรธรรมสพน์ เขตทวีวัฒนา กรุงเทพฯ 10170

โทร: 02-888-3472 โทร: ออกแบบ:08-08-170-170 แฟกซ์: 02-888-3258

https://www.add-furnace.com E-mail: sales@add-furnace.com

American 1 1/2" and 2" Model 2083M Industrial Regulator



Item No.	Part No.	DESCRIPTION	Qty.	Used In Regs Built		Item No.	Part No.	DESCRIPTION	Qty.	Used In Regs Built	
				Before	After					Before	After
1	72627P001	Valve Plunger	1			26	11970P034	Plug, Valve Head - 1/4" BSP - TR	1		1/1/94
2	72626G001	Lever	1			27	78113P002	Identification Tag	1		
3	78074P001	Vent Flapper Retainer	1			28	73787P001	Instruction Tag	1		
4	72163P001	Vent Flapper	1			29	72972P032	Head, Valve - 1-1/2" x 1-1/2"			
5	42710P161	"O" Ring	1					- BSP - TR Thread (Ductile Iron)	1		
6	72357G001	Seal Plug Assembly - w/out Seal Wire Hole (Std.)	1			29	72972P033	Head, Valve - 1-1/2" x 1-1/2"			
6	72357G002	Seal Plug Assembly - with Seal Wire Hole	1					- NPT Thread (Ductile Iron)	1		
7	78014P006	Setscrew, Regulator to Valve Head	3			29	72972P034	Head, Valve - 2" x 2"			
8	72858P001	Retainer, Seat Disc Holder	1					- BSP - TR Thread (Ductile Iron)	1		
9	70019P094	Gasket, Valve	1			29	72972P035	Head, Valve - 2" x 2" - NPT Thread (Ductile Iron)	1		
10	70400P008	Screen, Vent	1			29	72992P015	Head, Valve - 2" Class 125 Flanged (Ductile Iron)	1		
11	70019P087	Gasket, Seal Plug	1			29	72992P016	Head, Valve - 2" Metric Flanged (Ductile Iron)	1		
12	70014P143	Diaphragm	1			30	78014P007	Setscrew, OPSO to Valve Head	4		
13	70012P052	Plate, Diaphragm	1			31	73010P001	Plate, Isolation	1	1/1/94	
14	72629P005	Stem, Diaphragm	1			31	73010P002	Plate, Isolation	1		1/1/94
15	78000P081	Screw, Diaphragm Stem	1			32	42710P106	"O" Ring, Isolation Plate - I.D.	1	1/1/94	
16	70012P051	Guide, Spring	1			32	42710P078	"O" Ring, Isolation Plate - I.D.	1		1/1/94
17	13981P076	Flat Washer	1			33	42710P157	"O" Ring, Isolation Plate - O.D.	1		
18	71411P020	Spring, Pressure 0.05# - 1# (BROWN & WHITE)	1			34	42710P149	"O" Ring, Valve Plunger	1		
18	71411P021	Spring, Pressure 1# - 2.5# (PURPLE & WHITE)	1			35	72986G085	Assembly, OPSP 14" - 28" w/Buna N Seat Disc			
18	71411P022	Spring, Pressure 2.5# - 5# (ORANGE & BLACK)	1					- NPT Thread	1		
18	71424P027	Spring, Pressure 5# - 7# (RED-GREEN)	1			35	72986G086	Assembly, OPSO 1# - 2# w/Buna N Seat Disc			
18	71411P023	Spring, Pressure 5# - 10# (BLACK)	1					- NPT Thread	1		
18	71411P024	Spring, Pressure 10# - 15# (YELLOW & GREEN)	1			35	72986G087	Assembly, OPSO 2# - 3# w/Buna N Seat Disc			
19	72983P025	Valve - 1/8" Orifice (Low Flow Applications)	1					- NPT Thread	1		
19	72983P026	Valve - 3/16" Orifice (Low Flow Applications)	1			35	72986G088	Assembly, OPSO 3# - 5# w/Buna N Seat Disc			
19	72983P010	Valve - 1/4" Orifice	1					- NPT Thread	1		
19	72983P018	Valve - 3/8" Orifice	1			35	72986G089	Assembly, OPSO 5# - 8# w/Buna N Seat Disc			
19	72983P012	Valve - 1/2" Orifice	1					- NPT Thread	1		
19	72983P013	Valve - 5/8" Orifice	1			35	72986G090	Assembly, OPSO 8# - 14# w/Buna N Seat Disc			
19	72983P014	Valve - 3/4" Orifice	1					- NPT Thread	1		
19	72983P015	Valve - 7/8" Orifice	1			35	72986G091	Assembly, OPSO 14# - 20# w/Buna N Seat Disc			
19	72983P016	Valve - 1" Orifice	1					- NPT Thread	1		
19	72983P017	Valve - 1-1/4" Orifice	1			35	72986G092	Assembly, OPSO 14" - 28" w/Viton A Seat Disc			
20	78001P032	Bolt, Body 5/16" - 24 x 1-1/8" Hex. Hd. (Standard)	12					- NPT Thread	1		
20	78000P021	Bolt, Body 5/16" - 18 x 1.00"	12			35	72986G093	Assembly, OPSO 1# - 2# w/Viton A Seat Disc			
21	78020P003	Nut, Body Bolt 5/16" - 24 (Standard)	12					- NPT Thread	1		
21	78019P013	Nut, Body Bolt 5/16" - 18	12			35	72986G094	Assembly, OPSO 2# - 3# w/Viton A Seat Disc			
22	70041P071	Disc, Valve Seat - Buna N - 60 Duro	1					- NPT Thread	1		
22	70041P072	Disc, Valve Seat - Buna N - 70 Duro (Standard)	1			35	72986G095	Assembly, OPSO 3# - 5# w/Viton A Seat Disc			
22	70041P073	Disc, Valve Seat - Buna N - 80 Duro	1					- NPT Thread	1		
22	70041P133	Disc, Valve Seat - Viton A - 70 Duro	1			35	72986G096	Assembly, OPSO 5# - 8# w/Viton A Seat Disc			
23	72624P001	Holder, Seat Disc - For Use w/2" Models	1					- NPT Thread	1		
		- with 1/4" thru 7/8" Orifice Sizes (SILVER)				35	72986G097	Assembly, OPSO 8# - 14# w/Viton A Seat Disc			
23	72624P002	Holder, Seat Disc - For Use w/2" Models	1					- NPT Thread	1		
		- with 7/8" thru 1-1/4" Orifice Sizes (BLUE)				35	72986G098	Assembly, OPSO 14# - 20# w/Viton A Seat Disc			
23	72624P001	Holder, Seat Disc - For Use w/1-1/2" Models	1					- NPT Thread	1		
		- All Orifice Sizes (SILVER)						See Page 22 For OPSO Parts			
24	72354P001	Top, Regulator - without Seal Wire Hole	1			36	78482P013	NOT SHOWN Label, Main Tower (White Adhesive)			
24	72354P002	Top, Regulator - with Seal Wire Hole	1			37	78071P073	NOT SHOWN Label, Metal (Stampable)			
25	72628P002	Body, Regulator BSP - TR Thread	1								
25	72628P001	Body, Regulator NPT Thread	1								
26	11970P033	Plug, Valve Head - 1/4" NPT	1		1/1/94						



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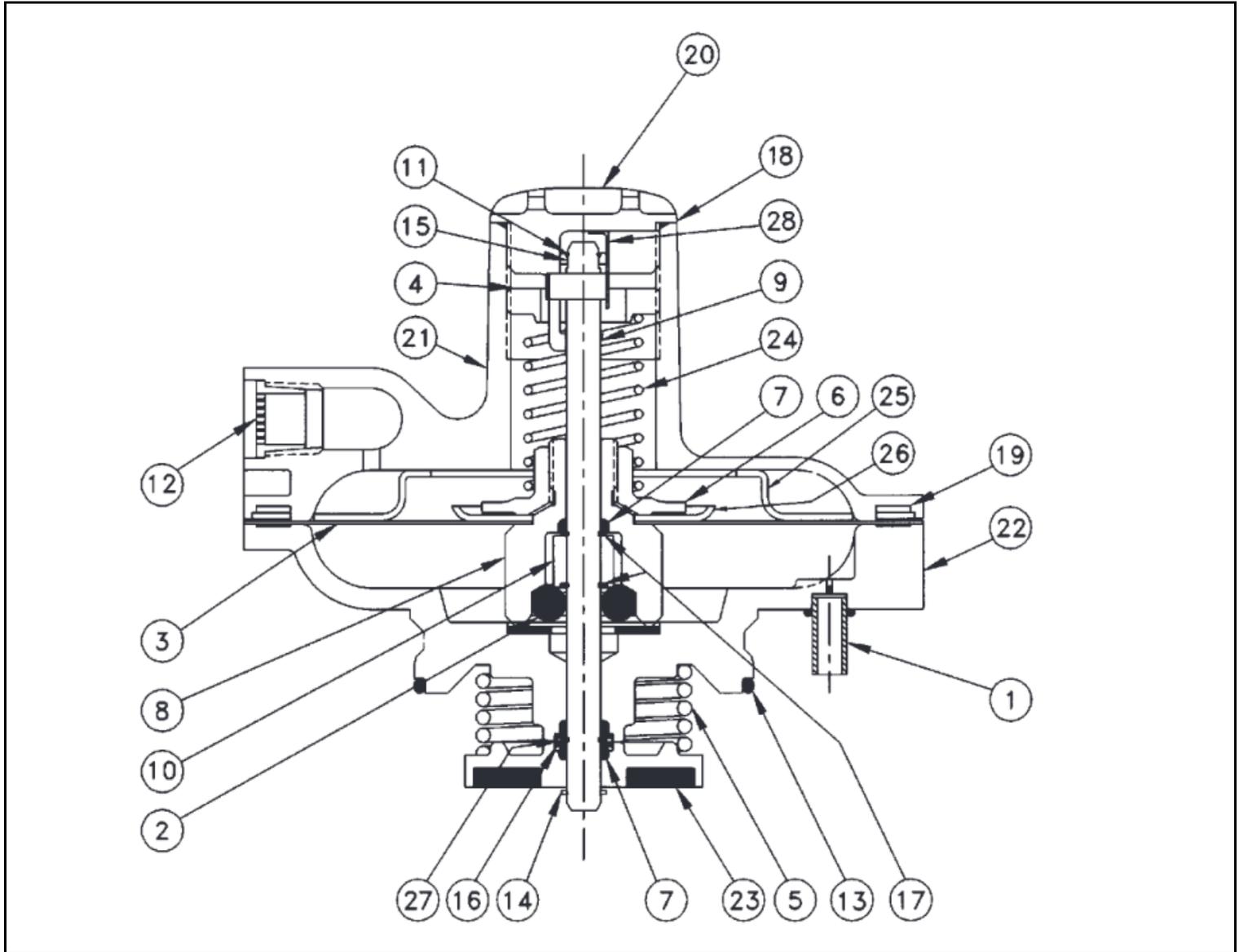
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OPSO



Item No.	Part No.	DESCRIPTION	Qty.	Item No.	Part No.	DESCRIPTION	Qty.
1	72653P001	Tube	1	20	72645P001	Seal Plug	1
2	78067P013	Ball	6	21	70006P007	Top, OPSO	1
3	70014P155	Diaphragm	1	22	72721G001	Body, OPSO Assembly	1
4	71824P005	Screw, Adjustment	1	22	72721G002	Body, Monitor OPSO Assembly – NPT	1
5	71421P027	Spring, Closing	1	22	72721G005	Body, Monitor OPSO Assembly – BSP – TR	1
6	72642P001	Nut, Diaphragm	1	23	72720G001	Unit, Seat Disc – Buna N – 60 Duro	1
7	42710P146	“O” Ring	2	23	72720G002	Unit, Seat Disc – Viton A – 60 Duro	1
8	72649P001	Cage, Ball	1	24	70017P075	Spring, Pressure 14” - 28” Shutoff (LT. BLUE)	1
9	72644P002	Shaft	1	24	70017P076	Spring, Pressure 1# - 2# Shutoff (RED-BROWN)	1
10	72648P001	Collar	1	24	70017P077	Spring, Pressure 2# - 3# Shutoff (PURPLE)	1
11	78074P019	Ring, Shaft Washer Retainer	1	24	70017P078	Spring, Pressure 3# - 5# Shutoff (ORANGE-YELLOW)	1
12	70034P001	Screen, Vent	1	24	70017P079	Spring, Pressure 5# - 8# Shutoff (ORANGE-GREEN)	1
13	42710P154	“O” Ring	1	24	70017P078*	Spring, Pressure 8# - 14# Shutoff (ORANGE-YELLOW)	1
14	42978P008	“E” Ring, Drive Shaft	1	24	70017P079*	Spring, Pressure 14# - 20# Shutoff (ORANGE-GREEN)	1
15	73071P001	Washer, Shaft	1	25	72646P001	Ring, Reducing	1
16	78074P014	Ring, Retainer	3	26	70012P042	Plate, Diaphragm	1
17	78074P013	Washer, “O” Ring Retainer	1	26	70012P045	Plate, Diaphragm	1
18	70019P108	Gasket, Seal Plug	1	27	72650P001	Washer, “O” Ring Retainer	1
19	78008P006	Screw, Body	8	28	73098P001	Clip, Spring	1

*To achieve these ranges, Items 25 (72646P001 and 26 (70012P045) are needed.



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ADD FURNACE CO.,LTD.

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