



Series PRV-71H Pressure Reducing Valve Operation and Maintenance Manual

All Hydro Instruments Chemical Feed systems are carefully designed and tested for years of safe, accurate field service. All Hydro Instruments systems are tested prior to shipment. All Hydro Instruments products are made of the finest materials. To ensure best operation, read these instructions carefully and completely and store them where all maintenance personnel will have access to them.

Pressure Reducing Valve Operation and Maintenance Manual

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PRV-71H Torque Specifications

Item	ft./lbs.
Lower End Cap	150
Hex Head Screws and Nuts	80

General Specifications

Maximum Pressure: 600 PSI (41 Bar)

Outlet Pressure Range: 0-45 PSI (0-3 Bar)
(See Section I.4 for manual PRVs & Section II.4 for Actuated PRVs for more information.)

Operating Temperature: -15°F (-26°C) to 225°F (107°C)

* **Operating Temperature:** -15°F (-26°C) to 150°F (65°C)

Inlet/Outlet Connections: ¾" FPT or 1" FPT

Vent Connection: ¼" FPT
(See Section I.2 for manual PRVs & Section II.2 for Actuated PRVs for more information on installing the vent connection.)

Mounting: Inline or wall mounted with PRH-353A-8000 mounting bracket.

Capacity: 8000 PPD Cl₂ or SO₂ (4000 PPD NH₃)
12,000 PPD Cl₂ or SO₂ (6000 PPD NH₃)

* **Power:** 120VAC or 240VAC, 50/60 Hz

* **Relay/Limit Switch:** 1 NO or NC, 22 Amps

* For electronically actuated PRVs only.

I. MANUALLY SET PRESSURE REDUCING VALVE

1. INTRODUCTION

The PRV-71H (manually operated) is a normally open, spring loaded, diaphragm type, self actuating pressure reducing valve. Its purpose is to reduce and control downstream pressure between 15 to 45 psig by the manual adjustment of the adjustment screw. The valve will close if downstream pressure exceeds the set pressure.

The upper valve body is provided with a ¼" FNPT vent connection. If the diaphragm fails, the pressurized gas can be directed to an appropriate location by use of the vent connection.

The PRV-71H design incorporates a removable trim capsule assembly, allowing for easy maintenance and cleaning.

2. INSTALLATION

Because of its weight, the PRV-71H (manually operated) should always be supported. An optional wall-mounting bracket is available and includes four ¾" x 1" wall mounting slots. The PRV should be installed in the upright position.

Inlet and outlet connections are ¾" or 1" female NPT depending on the model chosen. A label is provided to show the direction of flow and help identify the inlet and outlet. Note that the outlet connection and vent connection are on the same side of the valve. There is also a ¼" FNPT vent connection on the top body of the PRV in case of diaphragm failure. The vent line should be ½" schedule 80 carbon steel pipe and slope at least 2 degrees downward to prevent water/moisture entry. An insect screen must also be installed on the outlet of the vent piping to prevent insects from blocking the pipeline.

The valve should be installed downstream of the chlorine filter and liquid traps (drip legs).

A pressure gauge should always be installed in the downstream piping to indicate the reduced pressure.

All upstream and downstream piping will be under pressure. Strict safety precautions and regulations must be followed. All pipe and fittings must be carefully cleaned and checked for leaks before system startup. For details on piping guidelines, see the Chlorine Institute Inc. Pamphlet 6 or Hydro Instruments own Ton Container Manifolds for Gas Withdrawal Systems - Design Considerations (Doc. TCMGWS-DC).

CAUTION: The pressure reducing valve has been pressure tested prior to shipment. However, due to shipment and installation handling, the lead gasket seal under the lower end cap may have loosened. To prevent possible gas leaks, after installation, the end cap must be re-torqued to the torque specifications in this manual (pg.2) before gas is allowed to flow through the system.

The lower end cap, hex head screws & nuts must be periodically checked during operation to ensure a leak has not formed.

3. OPERATION

The outlet pressure is adjustable by means of the Adjustment Screw (PRH-396G-8000). By rotating the Upper End Cap (PRH-378U-8000) the user can access the adjustment screw. Turning the Adjustment Screw allows the user to increase (clockwise) or decrease (counterclockwise) the compression on the Loading Spring (SPH-424A-8000) thus controlling how much the valve opens. Turning the Adjustment Screw clockwise will increase the tension on the loading spring, thus

increasing the outlet pressure and turning it counterclockwise will decrease the outlet pressure. Adjustments should be made slowly and carefully, while monitoring the pressure with a pressure gauge installed on the downstream side of the pressure reducing valve.

4. MAINTENANCE

The frequency of required cleaning or maintenance will depend on the quality of the gas supply and the gas flow rate. However, it is recommended that the valve be serviced at least once per year.

Parts/Maintenance Kits are offered and contain the parts necessary to accomplish the recommended maintenance as well as a parts diagram.

Note: Please refer to the parts diagram for those items included in the Part & Maintenance Kits.

Maximum Discharge Pressure Settings to Prevent Liquifaction

Cl₂ Service: 40 psig (275 kPa guage)

SO₂ Service: 15 psig (103 kPa guage)

NH₃ service: 40 psig (275 kPa guage)

II. ELECTRICALLY ACTUATED PRESSURE REDUCING VALVE

1. INTRODUCTION

The PRV-71H (electronically operated) is an electronically actuated, spring loaded diaphragm type gas pressure reducing and shut-off valve. Its purpose is to reduce and control downstream pressure between 15 to 45 psig. The outlet pressure is manually adjusted by the position of the lock nuts. The electronic actuator is spring loaded normally closed and upon loss or disconnection of power, then the spring will move the pressure reducing valve to the closed position. Upon recieving or restoring power, the electronic actuator will close an internal solenoid valve and start an internal motor driven pump that is used to force the ram down until it reaches the manually set operating position.

2. INSTALLATION

Because of its weight the PRV-71H (electronically operated) should always be supported. An optional wall-mounting bracket is available for fast and easy installation. This wall mounting bracket includes four 3/8" x 1" mounting slots. The PRV should be installed in the upright position.

Inlet and outlet connections to the pressure reducing valve are 3/4" or 1" FNPT depending on the model chosen. A label is provided to indicate the direction of flow and help identify the inlet and the outlet. There is also a

1/4" FNPT vent connection above the outlet connection in case of diaphragm failure and it is recommended that 1/2" schedule 80 carbon steel vent piping be used. Vent piping should also slope downward at least 2 degrees to prevent water/moisture entry and an insect screen must be installed on the vent pipeline outlet to prevent insects from blocking the pipeline.

The installation of this valve should be downstream of any chlorine filters and drip legs, and a pressure gauge should be mounted on the downstream side of the valve to monitor outlet pressure.

Depending on the model, the electronic actuator will require either a 120 or 240 VAC (50/60 Hz) single phase power supply connected to the line terminals on the actuator unit with the ground line connected to the screw underneath the common (COM). The unit also includes a contact relay offering both normally open (N.O.) and normally closed (N.C.) connections, and their proper wiring location can be seen on the valve. To get remote closure of the actuator based on an alarm condition, wire a SPST switch into the L1 (phase) side of the power line. When operating, the valve operator requires 170 VA.

All upstream and downstream piping will be under pressure. Strict safety precautions and regulations must be followed. All pipe and fittings must be carefully cleaned and checked for leaks before system startup. For details on piping guidelines, see the Chlorine Institute Inc. Pamphlet 6 or Hydro Instruments own Ton Container Manifolds for Gas Withdrawal Systems - Design Considerations (Doc. TCMGWS-DC) and Vaporizer Piping (Doc. EVP-002-CL2).

IMPORTANT: *The PRV hex head screws & nuts as well as the lower end cap must be checked and tightened according to the torque specifications listed in this manual (pg.2), before system startup. The lower end cap, hex head screws & nuts must be periodically checked during operation to ensure a leak does not form.*

3. OPERATION

With voltage applied to the electronic actuator, an internal solenoid valve will close and a motor driven pump will apply pressure to a spring loaded piston. The ram valve which is connected to this piston will move down into position set by the lock nuts. Once the lock nuts hit the bottom of the yoke, the resistance will be picked up by the actuator and the motor will stop, holding the ram valve in place. Thus, the downstream pressure is set by the position of the lock nuts. Lowering the lock nuts will reduce the amount of tension applied to the loading spring, lowering downstream pressure, while raising the lock nuts will increase the tension applied to the loading spring, increasing the downstream pressure.

Warning: Do not adjust the lock nuts while the actuator is on. Doing so will result in damage of the actuator. To adjust the outlet pressure remove from power source and adjust, then re-apply power to get new pressure setting. Repeat until the correct outlet pressure is achieved

When in position, the ram valve compresses an internal spring, which in turn presses down on a diaphragm and opens up the orifice between the valve seat and valve plug. This opening allows for gas to enter through the reducing valve at a controlled pressure. Downstream pressure is regulated by the counteracting forces on the diaphragm between the spring and the gas. For example, when flow demand is increased there will be less force acting up on the diaphragm. This will allow the spring to expand down more, enlarging the orifice and allowing more gas flow into the regulator in order to establish a new diaphragm equilibrium position.

When power is lost, the solenoid valve will open and the ram valve will go up out of contact with the loading spring. This removes tension on the loading spring, causing the diaphragm to move up and the pressure reducing valve to close.

4. MAINTENANCE

The frequency of required cleaning or maintenance will depend on the quality of the gas supply and the gas flow rate. However, it is recommended that the valve be serviced at least once per year.

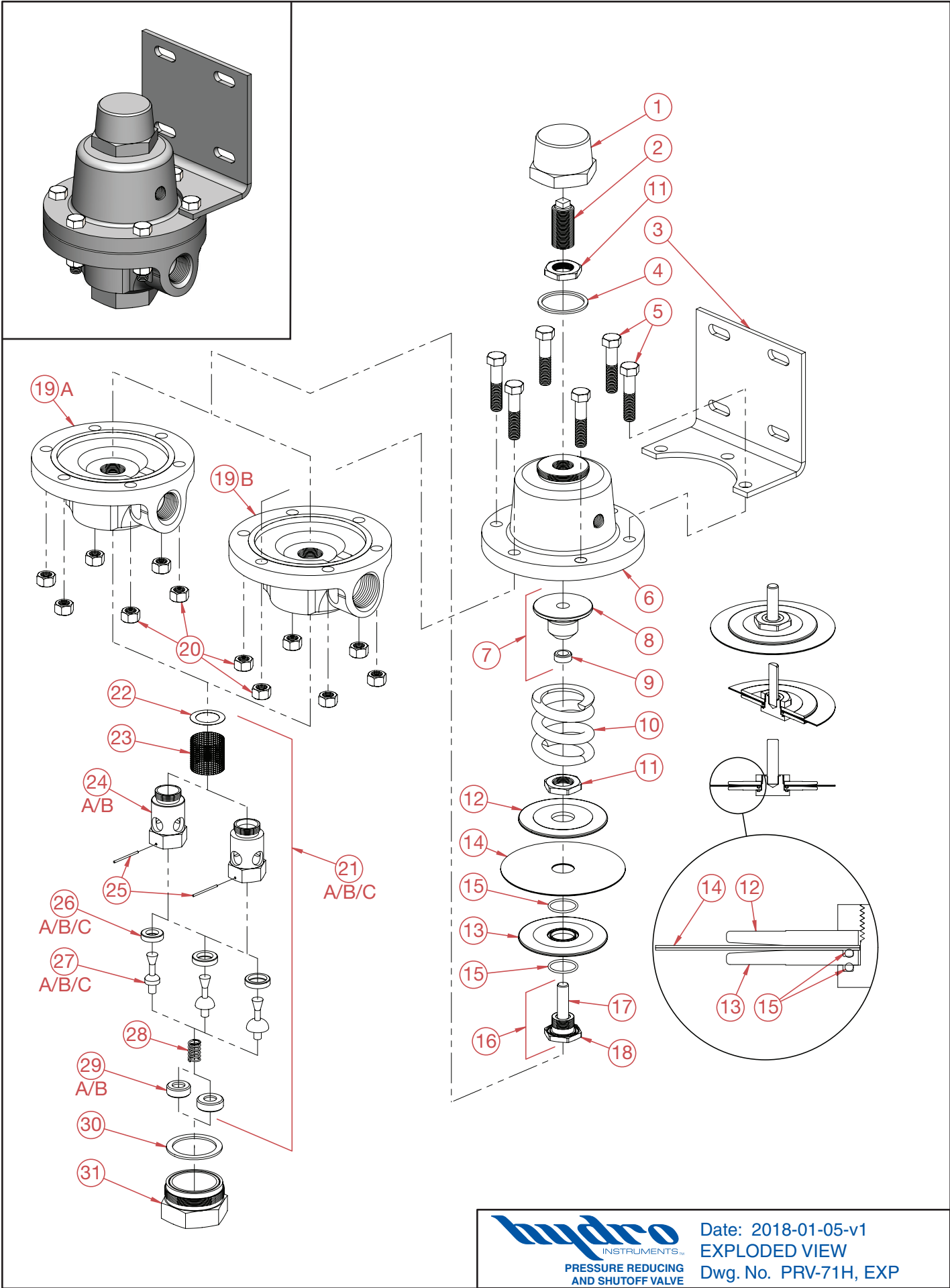
The electronic actuator does not require any routine maintenance and should not be tampered with unless by factory trained personnel. If you are experiencing problems with the actuator contact Hydro Instruments or your local Hydro Instruments sales representative. If the actuator no longer is able to open the valve, then it may require replacement.

Parts/Maintenance Kits are offered and contain the parts necessary to accomplish the recommended maintenance as well as a parts diagram.

Note: Please refer to the parts diagram for those items included in the Part & Maintenance Kits.

Maximum Discharge Pressure Settings to Prevent Liquifaction

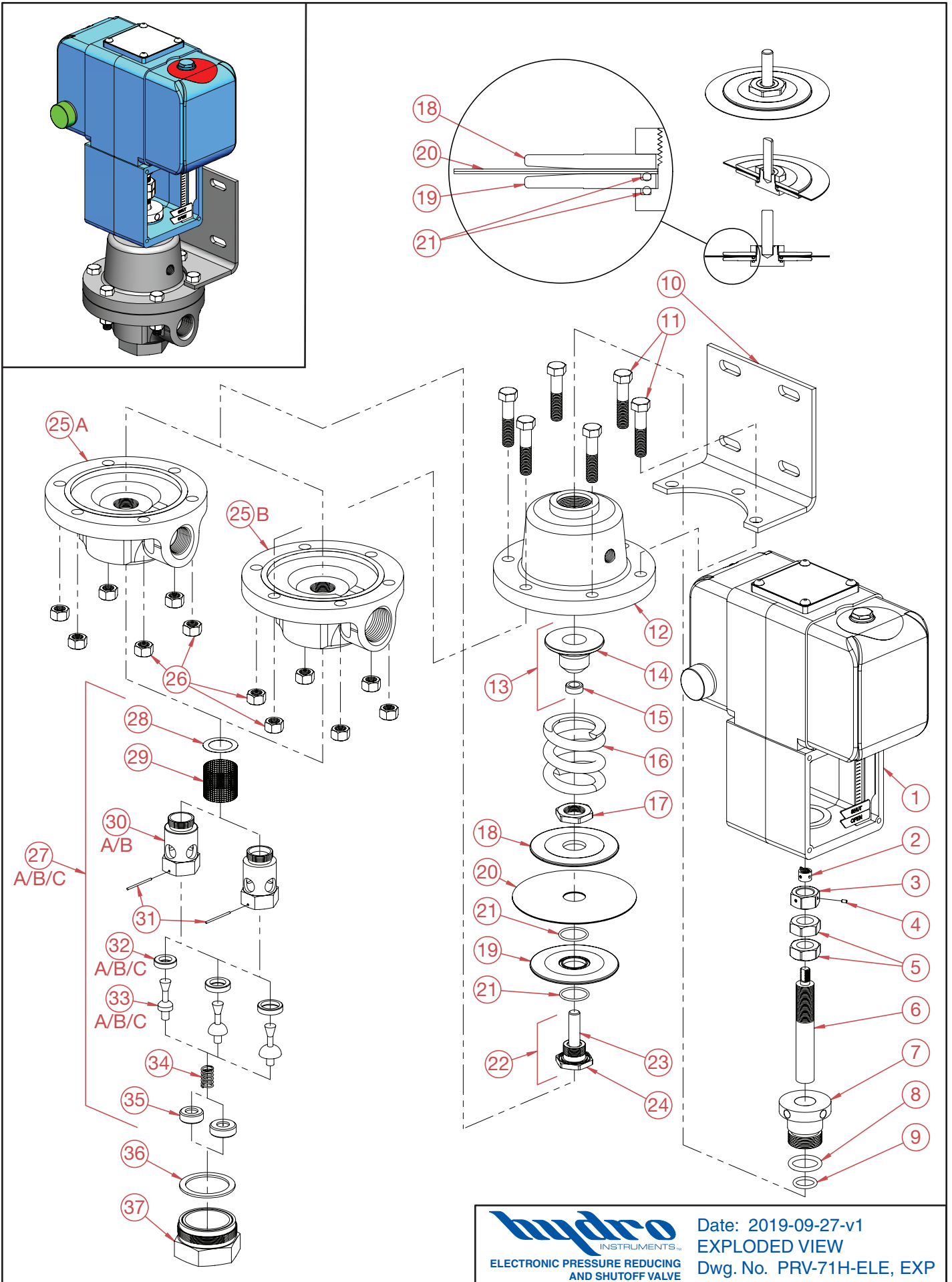
Cl₂ Service: 40 psig (275 kPa guage)
SO₂ Service: 15 psig (103 kPa guage)
NH₃ service: 40 psig (275 kPa guage)



Item No.	Description	Quantity	Part No.
1	Upper End Cap	1	PRH-378U-8000
2	Adjustment Screw	1	PRH-396G-8000
3	Mounting Bracket	1	PRH-353A-8000
4	^{PM} Upper End Cap Lead Gasket	1	GAH-LED-333
5	Hex Head Screw, 3/8-16 x 1 3/4"	6	BTH-STA-040F
6	Upper Valve Body	1	PRH-23076-8000
7	Seat Cap and Seat Cap Bushing Assembly	1	
8	Seat Cap (pre-assembled with bushing)	1	PRH-640A-8000
9	Seat Cap Bushing (pre-assembled with cap)	1	PRH-640B-8000
10	Loading Spring	1	SPH-424A-8000
11	3/4-16 Brass Hex Nut	2	PRH-397A-8000
12	Diaphragm Backing Plate	1	PRH-391G-8000
13	Diaphragm Backing Plate (with o-ring groove)	1	PRH-392G-8000
14	^{PM} Set of Two Diaphragms	1	DIH-425C-8000
15	^{PM} O-Ring	2	OH-VIT-020
16	Diaphragm Bolt and Diaphragm Bolt Base Assembly	1	PRH-639A-8000
17	Diaphragm Bolt (pre-assembled, press fit with base)	1	
18	Diaphragm Bolt Base (with o-ring groove) (pre-assembled, press fit with bolt)	1	
19A	Lower Valve Body (3/4")	1	PRH-23077-8000
19B	Lower Valve Body (1")	1	PRH-23077-12000
20	Hex Nut, 3/8-16	6	BTH-STA-145M
21A	* Trim Capsule Assembly (8000 PPD)	1	PRH-668-8000
21B	* Trim Capsule Assembly (12,000 PPD)	1	PRH-668-12000
21C	* Trim Capsule Assembly (16,000 PPD)	1	PRH-668-16000
22	^{PM} Gasket	1	GAH-334C-8000
23	^{PM} Valve Screen	1	PRH-433S-8000
24A	Valve Body Capsule (8000 PPD)	1	PRH-433A-8000
24B	Valve Body Capsule (12,000 PPD & 16,000 PPD)	1	PRH-433A2-12000
25	Pin	1	PRH-398A-8000
26A	^{PM} Valve Seat (8000 PPD)	1	PRH-433F-8000
26B	^{PM} Valve Seat (12,000 PPD)	1	PRH-433F2-12000
26C	^{PM} Valve Seat (16,000 PPD)	1	PRH-433F3-16000
27A	Valve Plug (8000 PPD)	1	PRH-433C-8000
27B	Valve Plug (12,000 PPD)	1	PRH-433C2-12000
27C	Valve Plug (16,000 PPD)	1	PRH-433C3-16000
28	Trim Spring	1	SPH-424B-8000
29A	Spring Seat Cap (8000 PPD)	1	PRH-378D-8000
29B	Spring Seat Cap (12,000 PPD & 16,000 PPD)	1	PRH-378D2-12000
30	^{PM} Lower End Cap Lead Gasket	1	GAH-LED-334
31	Lower End Cap	1	PRH-378L-8000
^{PM}	Part & Maintenance Kit (8000 PPD)		KTH-PRV-71H-CL2-2
^{PM}	Part & Maintenance Kit (12,000 PPD)		KTH-PRV-71H-CL2-3
^{PM}	Part & Maintenance Kit (16,000 PPD)		KTH-PRV-71H-CL2-4
*	Replacement requires new GAH-LED-334		



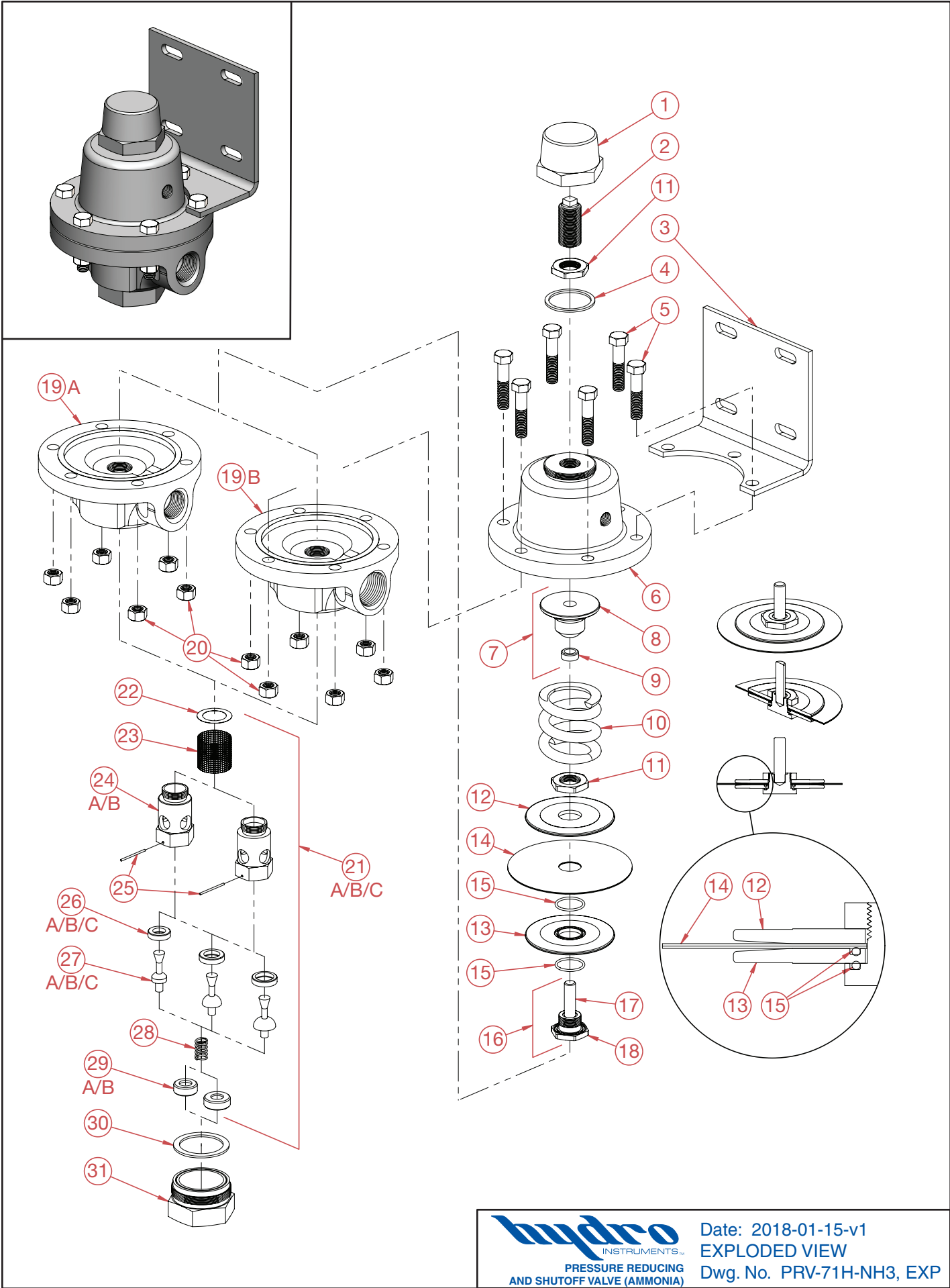
Date: 2018-01-05-v1
BILL OF MATERIALS
Dwg. No. PRV-71H, BOM



Item No.	Description	Quantity	Part No.
1A	Actuator (120 V)	1	PRHA-766-120
1B	Actuator (240 V)	1	PRHA-1025-240
2	Stem Nut	1	PRH-142E-000
3	Hex Nut, Actuator	1	BTH-STA-AN
4	Set Screw, 5-40 x 1/8", SS	2	BTH-STA-54018
5	Locking Nuts, HCX, 5/8-18	2	BTH-STA-5818
6	Valve Ram Stem	1	PRH-433E-000
7	Valve Gland	1	PRH-433G-000
8	^{PM} O-Ring	1	OH-VIT-212
9	^{PM} O-Ring	1	OH-VIT-114
10	Mounting Bracket	1	PRH-353A-8000
11	Hex Head Screw, 3/8-16 x 1 3/4"	6	BTH-STA-040F
12	Upper Valve Body, Electronic	1	PRH-23078-12000
13	Seat Cap and Seat Cap Bushing Assembly, Electronic	1	
14	Seat Cap, Electronic (pre-assembled with bushing)	1	PRH-640A2-12000
15	Seat Cap Bushing (pre-assembled with cap)	1	PRH-640B-8000
16	Loading Spring	1	SPH-424A-8000
17	3/4-16 Brass Hex Nut	1	PRH-397A-8000
18	Diaphragm Backing Plate	1	PRH-391G-8000
19	Diaphragm Backing Plate (with o-ring groove)	1	PRH-392G-8000
20	^{PM} Set of Two Diaphragms	1	DIH-425C-8000
21	^{PM} O-Ring	2	OH-VIT-020
22	Diaphragm Bolt and Diaphragm Bolt Base Assembly	1	PRH-639A-8000
23	Diaphragm Bolt (pre-assembled, press fit with base)	1	
24	Diaphragm Bolt Base (with o-ring groove) (pre-assembled with bolt)	1	
25A	Lower Valve Body (3/4")	1	PRH-23077-8000
25B	Lower Valve Body (1")	1	PRH-23077-12000
26	Hex Nut, 3/8-16	6	BTH-STA-145M
27A	* Trim Capsule Assembly (8000 PPD)	1	PRH-668-8000
27B	* Trim Capsule Assembly (12,000 PPD)	1	PRH-668-12000
27C	* Trim Capsule Assembly (16,000 PPD)	1	PRH-668-16000
28	^{PM} Gasket	1	GAH-334C-8000
29	^{PM} Valve Screen	1	PRH-433S-8000
30A	Valve Body Capsule (8000 PPD)	1	PRH-433A-8000
30B	Valve Body Capsule (12,000 PPD & 16,000 PPD)	1	PRH-433A2-12000
31	Pin	1	PRH-398A-8000
32A	^{PM} Valve Seat (8000 PPD)	1	PRH-433F-8000
32B	^{PM} Valve Seat (12,000 PPD)	1	PRH-433F2-12000
32C	^{PM} Valve Seat (16,000 PPD)	1	PRH-433F3-16000
33A	Valve Plug (8000 PPD)	1	PRH-433C-8000
33B	Valve Plug (12,000 PPD)	1	PRH-433C2-12000
33C	Valve Plug (16,000 PPD)	1	PRH-433C3-16000
34	Trim Spring	1	SPH-424B-8000
35A	Spring Seat Cap (8000 PPD)	1	PRH-378D-8000
35B	Spring Seat Cap (12,000 PPD & 16,000 PPD)	1	PRH-378D2-12000
36	^{PM} Lower End Cap Lead Gasket	1	GAH-LED-334
37	Lower End Cap	1	PRH-378L-8000
^{PM}	Part & Maintenance Kit (8000 PPD)		KTH-PRV-71H-CL2-2
^{PM}	Part & Maintenance Kit (12,000 PPD)		KTH-PRV-71H-CL2-3
^{PM}	Part & Maintenance Kit (16,000 PPD)		KTH-PRV-71H-CL2-4
*	Replacement requires new GAH-LED-334		



Date: 2019-09-27-v1
BILL OF MATERIALS
Dwg. No. PRV-71H-ELE, BOM



hydro
 INSTRUMENTS™
 PRESSURE REDUCING
 AND SHUTOFF VALVE (AMMONIA)

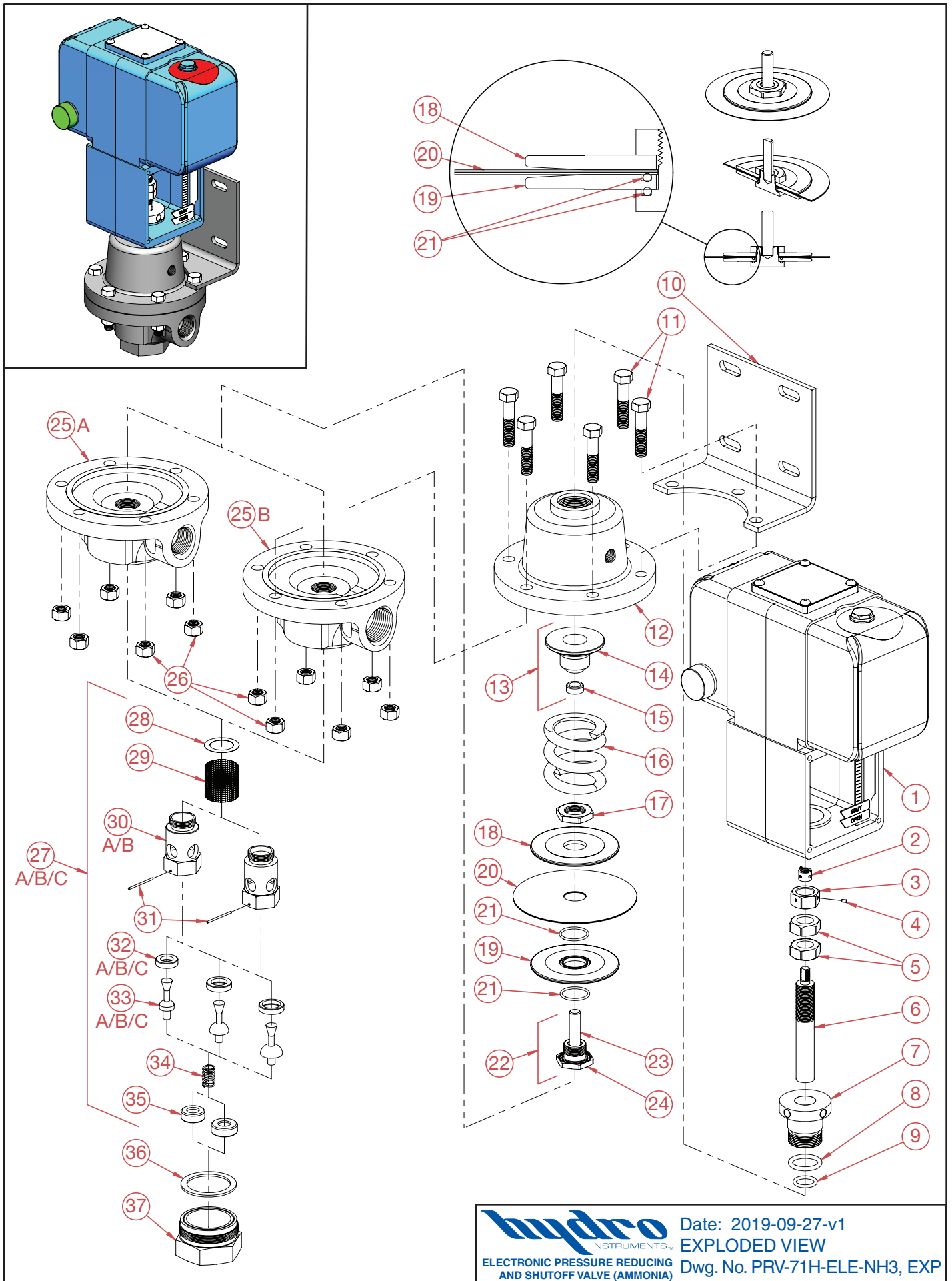
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 EXPLODED VIEW
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Item No.	Description	Quantity	Part No.
1	Upper End Cap	1	PRH-378U-8000
2	Adjustment Screw	1	PRH-396G-8000
3	Mounting Bracket	1	PRH-353A-8000
4	^{PM} Upper End Cap Lead Gasket	1	GAH-LED-333
5	Hex Head Screw, 3/8-16 x 1 3/4" (Stainless)	6	BTH-STA-040F-SS
6	Upper Valve Body	1	PRH-23076-8000
7	Seat Cap and Seat Cap Bushing Assembly	1	
8	Seat Cap (pre-assembled with bushing)	1	PRH-640A-8000
9	Seat Cap Bushing (pre-assembled with cap)	1	PRH-640B-8000
10	Loading Spring	1	SPH-424A-8000
11	3/4-16 Brass Hex Nut	2	PRH-397A-8000
12	Diaphragm Backing Plate	1	PRH-391G-8000
13	Diaphragm Backing Plate (with o-ring groove)	1	PRH-392G-8000
14	^{PM} Set of Two Diaphragms	1	DIH-425C-8000
15	^{PM} O-Ring	2	OH-BUN-020
16	Diaphragm Bolt and Diaphragm Bolt Base Assembly	1	PRH-639A-8000-SS
17	Diaphragm Bolt (pre-assembled, press fit with base)	1	
18	Diaphragm Bolt Base (316 SS) (with o-ring groove) (pre-assembled, press fit with bolt)	1	
19 A	Lower Valve Body (3/4")	1	PRH-23077-8000
19 B	Lower Valve Body (1")	1	PRH-23077-12000
20	Hex Nut, 3/8-16 (Stainless)	6	BTH-STA-145M-SS
21 A	* Trim Capsule Assembly (4000 PPD Ammonia)	1	PRH-668-8000-SS
21 B	* Trim Capsule Assembly (6000 PPD Ammonia)	1	PRH-668-12000-SS
21 C	* Trim Capsule Assembly (8000 PPD Ammonia)	1	PRH-668-16000-SS
22	^{PM} Gasket	1	GAH-334C-8000
23	^{PM} Valve Screen (Hastelloy)	1	PRH-433S-8000-HC
24 A	Valve Body Capsule (316SS) (4000 PPD Ammonia)	1	PRH-433A-8000-SS
24 B	Valve Body Capsule (316SS) (6000 PPD & 8000 PPD Ammonia)	1	PRH-433A2-12000-SS
25	Pin (Stainless)	1	PRH-398A-8000-SS
26 A	^{PM} Valve Seat (4000 PPD Ammonia)	1	PRH-433F-8000
26 B	^{PM} Valve Seat (6000 PPD Ammonia)	1	PRH-433F2-12000
26 C	^{PM} Valve Seat (8000 PPD Ammonia)	1	PRH-433F3-16000
27 A	Valve Plug (4000 PPD Ammonia)	1	PRH-433C-8000-SS
27 B	Valve Plug (6000 PPD Ammonia)	1	PRH-433C2-12000-SS
27 C	Valve Plug (8000 PPD Ammonia)	1	PRH-433C3-16000-SS
28	Trim Spring (Hastelloy)	1	SPH-424B-8000-HC
29 A	Spring Seat Cap (316SS) (4000 PPD Ammonia)	1	PRH-378D-8000-SS
29 B	Spring Seat Cap (316SS) (6000 PPD & 8000 PPD Ammonia)	1	PRH-378D2-12000-SS
30	^{PM} Lower End Cap Lead Gasket	1	GAH-LED-334
31	Lower End Cap	1	PRH-378L-8000

^{PM} Part & Maintenance Kit (4000 PPD Ammonia)
^{PM} Part & Maintenance Kit (6000 PPD Ammonia)
^{PM} Part & Maintenance Kit (8000 PPD Ammonia)
* Replacement requires new GAH-LED-334



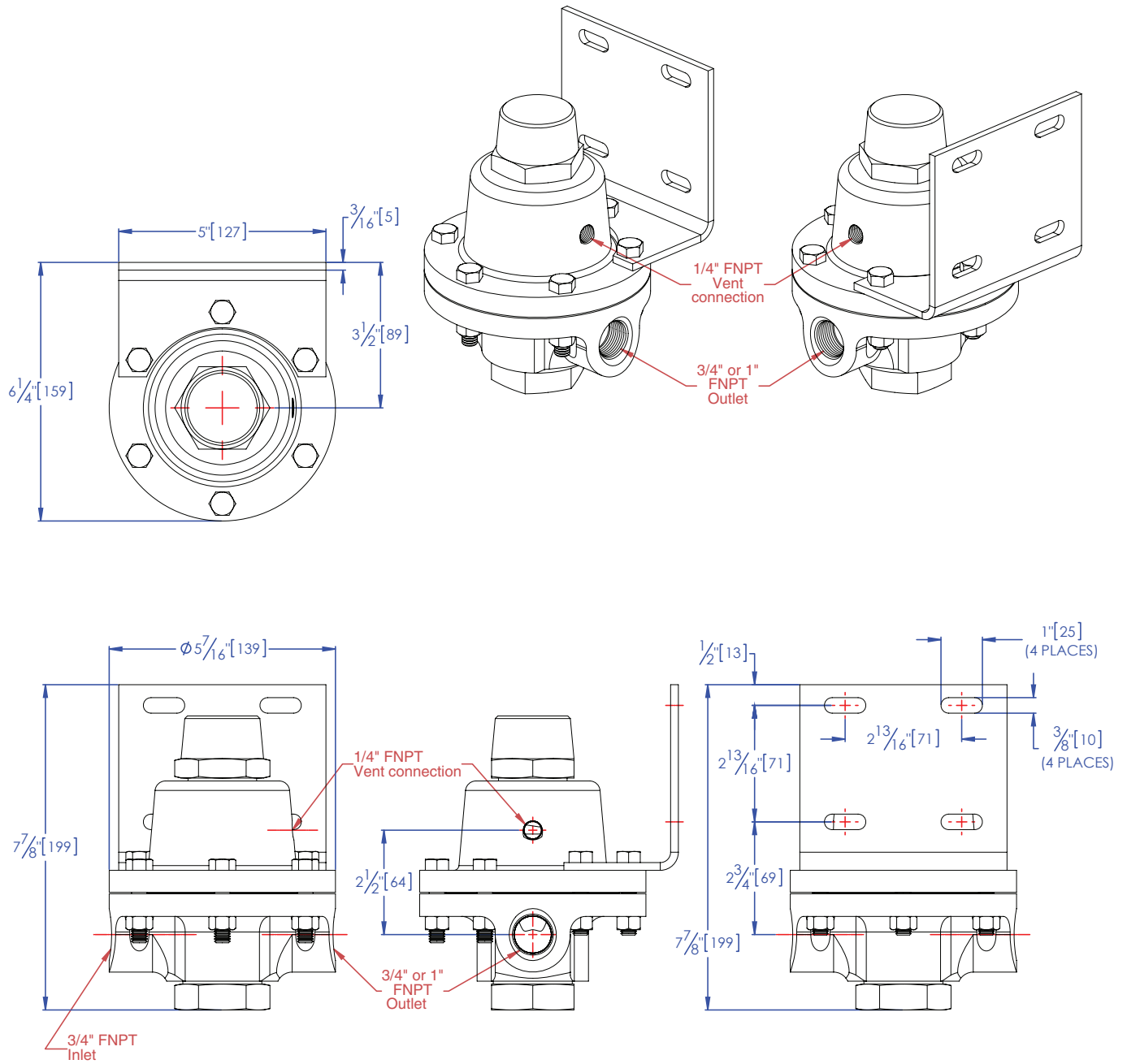
Date: 2018-01-15-v1
BILL OF MATERIALS
Dwg. No. PRV-71H-NH3, BOM



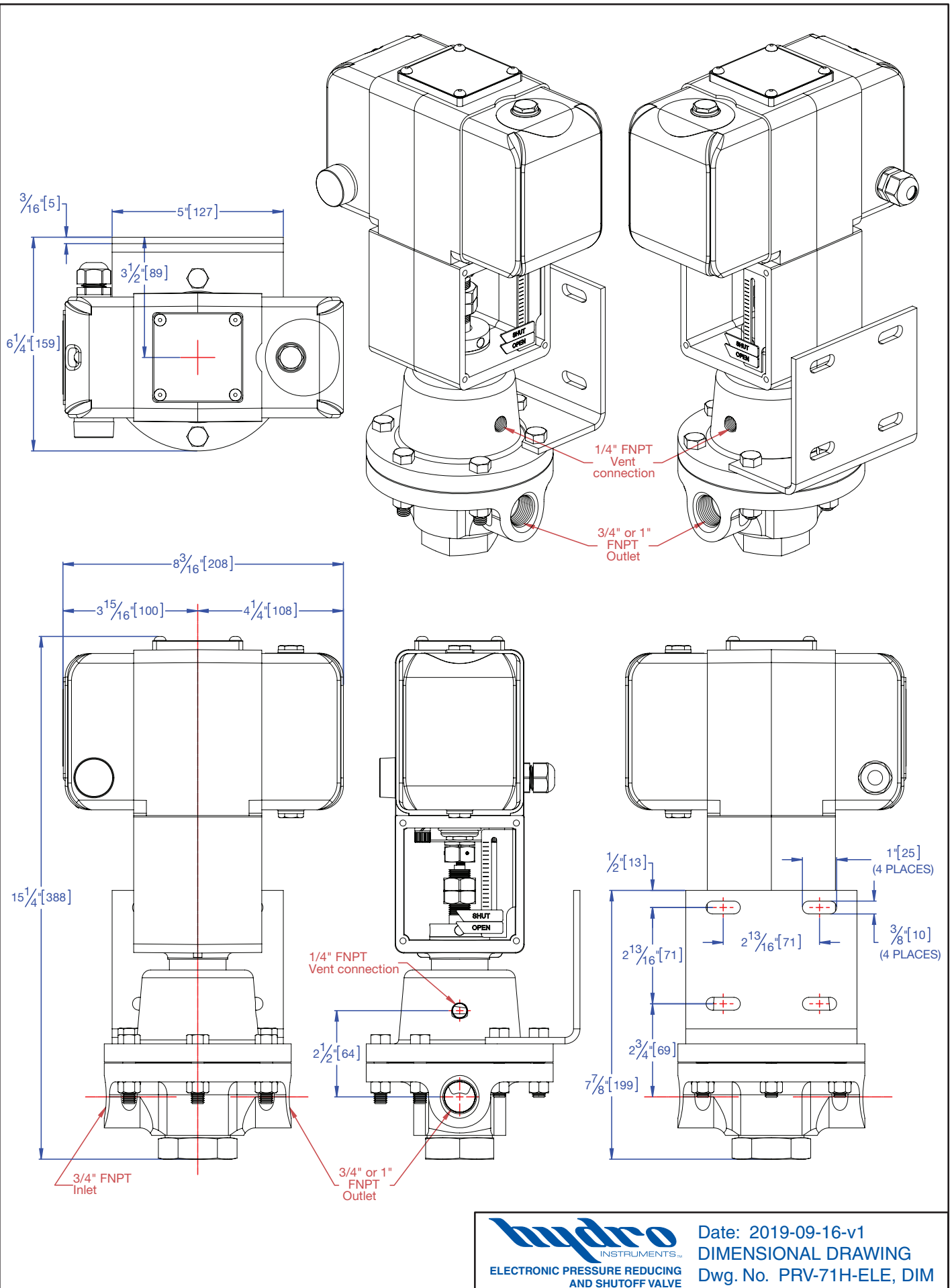
Item No.	Description	Quantity	Part No.
1 A	Actuator (120 V)	1	PRHA-766-120
1 B	Actuator (240 V)	1	PRHA-1025-240
2	Stem Nut	1	PRH-142E-000
3	Hex Nut, Actuator	1	BTH-STA-AN
4	Set Screw, 5-40 x 1/8", SS	2	BTH-STA-54018
5	Locking Nuts, HCX, 5/8-18	2	BTH-STA-5818
6	Valve Ram Stem	1	PRH-433E-000
7	Valve Gland	1	PRH-433G-000
8	PM O-Ring	1	OH-BUN-212
9	PM O-Ring	1	OH-BUN-114
10	Mounting Bracket	1	PRH-353A-8000
11	Hex Head Screw, 3/8-16 x 1 3/4" (Stainless)	6	BTH-STA-040F-SS
12	Upper Valve Body, Electronic	1	PRH-23078-12000
13	Seat Cap and Seat Cap Bushing Assembly, Electronic	1	
14	Seat Cap, Electronic (pre-assembled with bushing)	1	PRH-640A2-12000
15	Seat Cap Bushing (pre-assembled with cap)	1	PRH-640B-8000
16	Loading Spring	1	SPH-424A-8000
17	3/4-16 Brass Hex Nut	1	PRH-397A-8000
18	Diaphragm Backing Plate	1	PRH-391G-8000
19	Diaphragm Backing Plate (with o-ring groove)	1	PRH-392G-8000
20	PM Set of Two Diaphragms	1	DIH-425C-8000
21	PM O-Ring	2	OH-BUN-020
22	Diaphragm Bolt and Diaphragm Bolt Base Assembly	1	PRH-639A-8000-SS
23	Diaphragm Bolt (pre-assembled, press fit with base)	1	
24	Diaphragm Bolt Base (316SS) (with o-ring groove) (pre-assembled with bolt)	1	
25 A	Lower Valve Body (3/4")	1	PRH-23077-8000
25 B	Lower Valve Body (1")	1	PRH-23077-12000
26	Hex Nut, 3/8-16 (Stainless)	6	BTH-STA-145M-SS
27 A	* Trim Capsule Assembly (4000 PPD Ammonia)	1	PRH-668-8000-SS
27 B	* Trim Capsule Assembly (6000 PPD Ammonia)	1	PRH-668-12000-SS
27 C	* Trim Capsule Assembly (8000 PPD Ammonia)	1	PRH-668-16000-SS
28	PM Gasket	1	GAH-334C-8000
29	PM Valve Screen (Hastelloy)	1	PRH-433S-8000-HC
30 A	Valve Body Capsule (316SS) (4000 PPD Ammonia)	1	PRH-433A-8000-SS
30 B	Valve Body Capsule (316SS) (6000 PPD & 8000 PPD Ammonia)	1	PRH-433A2-12000-SS
31	Pin (Stainless)	1	PRH-398A-8000-SS
32 A	PM Valve Seat (4000 PPD Ammonia)	1	PRH-433F-8000
32 B	PM Valve Seat (6000 PPD Ammonia)	1	PRH-433F2-12000
32 C	PM Valve Seat (8000 PPD Ammonia)	1	PRH-433F3-16000
33 A	Valve Plug (4000 PPD Ammonia)	1	PRH-433C-8000-SS
33 B	Valve Plug (6000 PPD Ammonia)	1	PRH-433C2-12000-SS
33 C	Valve Plug (8000 PPD Ammonia)	1	PRH-433C3-16000-SS
34	Trim Spring (Hastelloy)	1	SPH-424B-8000-HS
35 A	Spring Seat Cap (316SS) (4000 PPD Ammonia)	1	PRH-378D-8000
35 B	Spring Seat Cap (316SS) (6000 PPD & 8000 PPD Ammonia)	1	PRH-378D2-12000
36	PM Lower End Cap Lead Gasket	1	GAH-LED-334
37	Lower End Cap	1	PRH-378L-8000
PM	Part & Maintenance Kit (4000 PPD Ammonia)		KTH-PRV-71H-NH3-2
PM	Part & Maintenance Kit (6000 PPD Ammonia)		KTH-PRV-71H-NH3-3
PM	Part & Maintenance Kit (8000 PPD Ammonia)		KTH-PRV-71H-NH3-4
*	Replacement requires new GAH-LED-334		

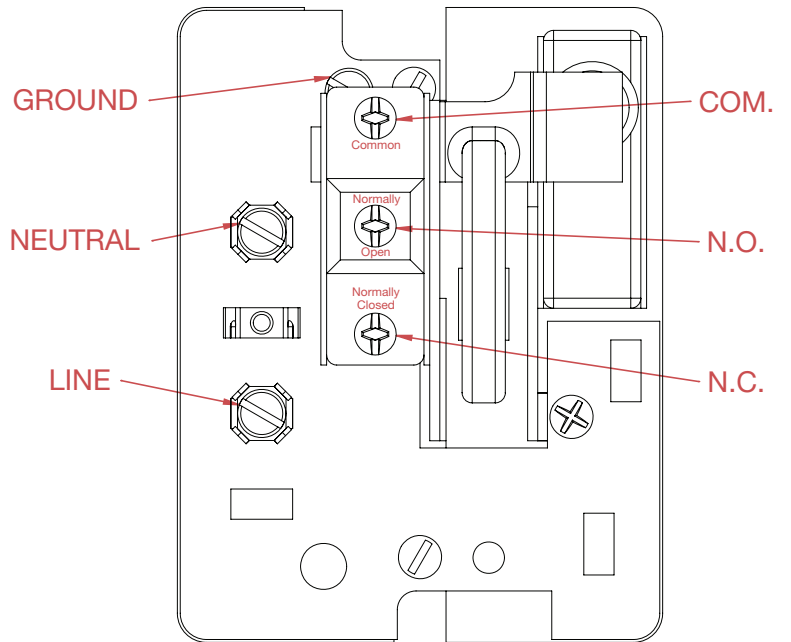
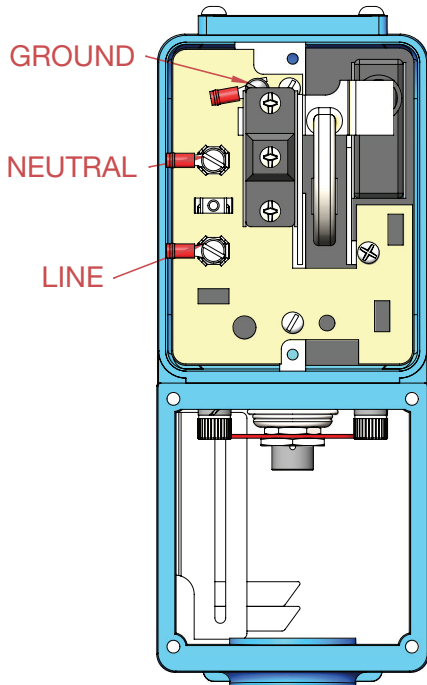
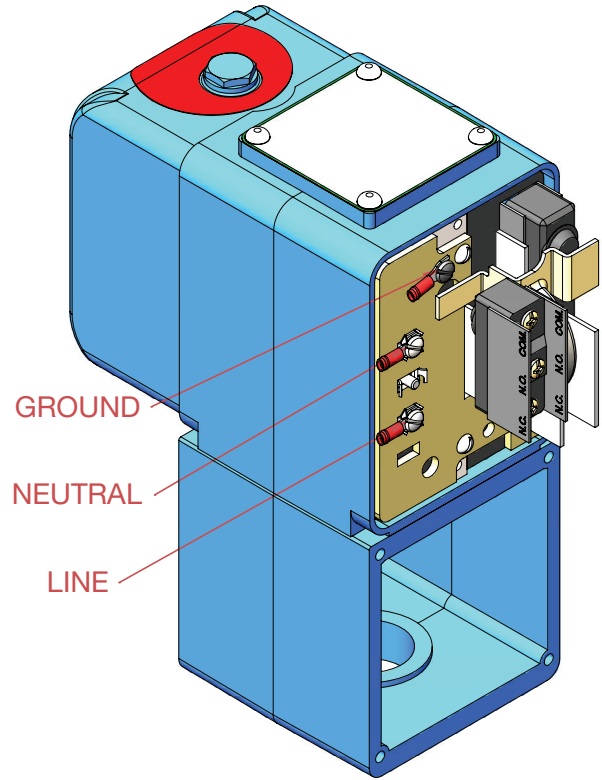
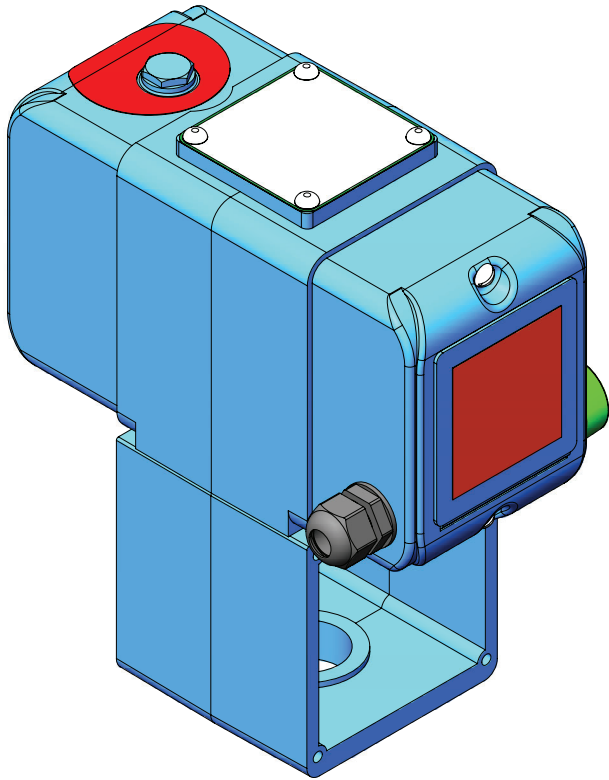


Date: 2019-09-27-v1
BILL OF MATERIALS
Dwg. No. PRV-71H-ELE-NH3, BOM




 Date: October 2015
DIMENSIONAL DRAWING
 Dwg. No. PRV-71H, DIM
PRESSURE REDUCING AND SHUTOFF VALVE

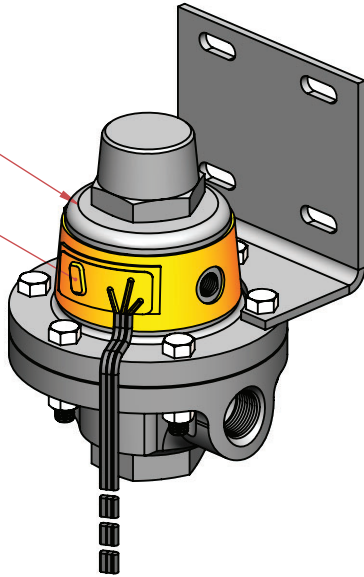




PRV-71H
WITH HEATER

THERMOSTAT

HEATER
POWER
CORD

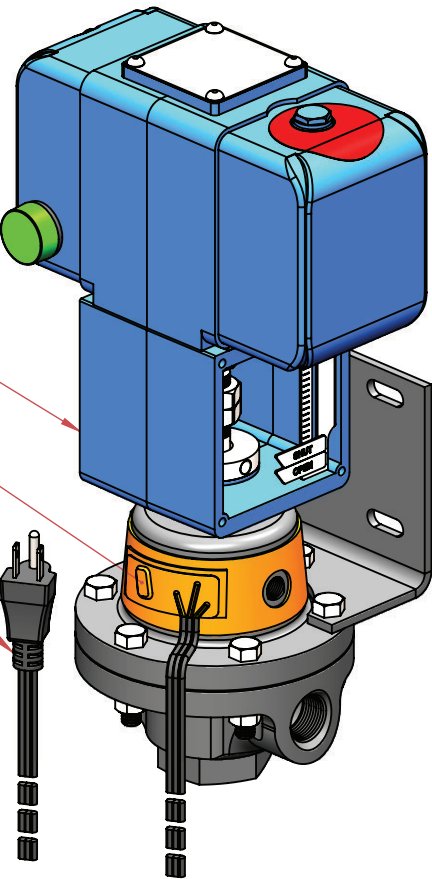


GREEN LED
INDICATOR

PRV-71H-ELE
WITH HEATER

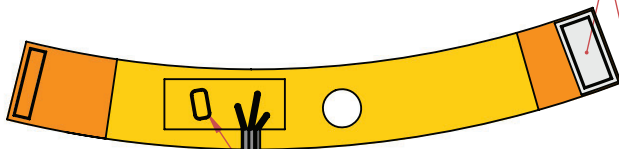
THERMOSTAT

HEATER
POWER
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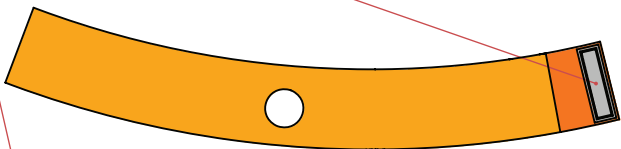


FRONT FLAT PATTERN VIEW

HOOK AND LOOP
FASTENERS

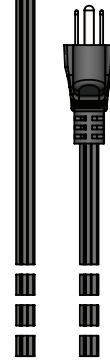
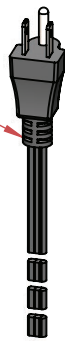
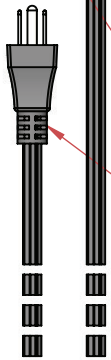


BACK FLAT PATTERN VIEW



THERMOSTAT

HEATER
POWER
CORD



Date: 2019-09-16-v1
HEATER for PRV-71H
and PRV-71H-ELE