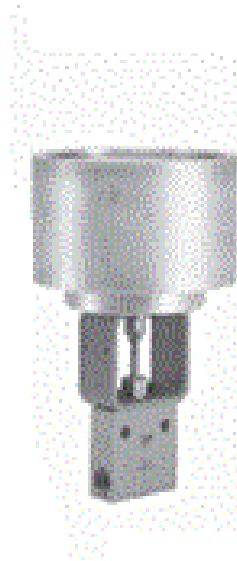




**High Pressure
Equipment
Company**

**Hippo Piston Operated Valve
Normally Open, Spring to Open
Operating and Maintenance Instructions**



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Hippo Piston Operated Valve- Normally Open

Description:

These piston air operators provide remote automatic on/off operation of valves and can be controlled by means of an air regulator, an electrical solenoid, or a manual low pressure valve in the user's air supply line. Air inlet is 1/8 inch NPT. Air pressure requirement ranges from 35 psi to 120 psi.

Medium Duty

Valve Series	Maximum Operating Pressure	Orifice Size	Approximate Air Pressure to Seat Valve	Part Number Suffix
10- ** AF4	10,000 psi	1/8"	35 psi	MPO-NO
10- ** AF6	10,000 psi	1/8"	35 psi	MPO-NO
15F- ** NFA	15,000 psi	13/64"	75 psi	MPO-NO
15F- ** NFB	15,000 psi	13/64"	75 psi	MPO-NO
15F- ** NFC	10,000 psi	5/16"	100 psi	MPO-NO
15F- ** NFD	10,000 psi	5/16"	100 psi	MPO-NO
20- ** LF4	20,000 psi	1/8"	95 psi	MPO-NO
20- ** LF6	20,000 psi	13/64"	100 psi	MPO-NO
20- ** LF9	10,000 psi	5/16"	100 psi	MPO-NO
20- ** LF12	6,000 psi	7/16"	100 psi	MPO-NO
30- ** HF4	30,000 psi	3/32"	60 psi	MPO-NO
30- ** HF6	30,000 psi	1/8"	60 psi	MPO-NO
30- ** HF9	30,000 psi	1/8"	60 psi	MPO-NO
60- ** HF4	60,000 psi	1/16"	55 psi	MPO-NO
60- ** HF6	60,000 psi	1/16"	55 psi	MPO-NO
60- ** HF9	60,000 psi	1/16"	55 psi	MPO-NO

Heavy Duty

15F- ** NFC	15,000 psi	5/16"	75 psi	HPO-NO
15F- ** NFD	15,000 psi	5/16"	75 psi	HPO-NO
20- ** LF4	20,000 psi	1/8"	55 psi	HPO-NO
20- ** LF6	20,000 psi	13/64"	55 psi	HPO-NO
20- ** LF9	20,000 psi	5/16"	95 psi	HPO-NO
20- ** LF12	13,000 psi	7/16"	100 psi	HPO-NO
20- ** LF16	8,800 psi	9/16"	100 psi	HPO-NO
30- ** HF4	30,000 psi	3/32"	35 psi	HPO-NO
30- ** HF6	30,000 psi	1/8"	35 psi	HPO-NO
30- ** HF9	30,000 psi	1/8"	35 psi	HPO-NO
60- ** HF4	60,000 psi	1/16"	30 psi	HPO-NO
60- ** HF6	60,000 psi	1/16"	30 psi	HPO-NO
60- ** HF9	60,000 psi	1/16"	30 psi	HPO-NO

Extra Heavy Duty

20- ** LF12	20,000 psi	7/16"	55 psi	EHPO-NO
10- ** NFF	10,000 psi	11/16"	45 psi	EHPO-NO
10- ** NFH	10,000 psi	11/16"	45 psi	EHPO-NO
10- ** LF16	10,000 psi	11/16"	45 psi	EHPO-NO
20- ** LF16	20,000 psi	9/16"	55 psi	EHPO-NO
30- ** HF16	30,000 psi	7/16"	50 psi	EHPO-NO

** Standard Valve Patterns (reference Page 1.4)

Hippo Piston Operated- Normally Open Operating Instructions:

Installation:

Valves are factory adjusted and seat tested to the rated pressure. The air supply connection is a 1/8 inch NPT female. Maximum recommended air pressure is stated on the operator plate.

Hippo Piston Operated- Normally Open Maintenance Instructions:

Packing Gland Adjustment Instructions:

1. Relieve the system pressure. Remove the valve from the system and place it securely in a vice.
2. Tighten the packing gland to the appropriate torque for the valve. Suggested packing gland torque values are listed in the Technical Information section of the High Pressure Equipment Company catalog.

Packing Replacement Instructions:

1. Relieve the system pressure. Remove the valve from the system and place it securely in a vice.
2. Remove the cap screws holding the operator mounting bracket to the body.
3. Unscrew the packing gland and remove the packing gland, stem, and top works assembly from the body. Note the packing and packing washer arrangement.
4. Replace the packing set, and place the packing and packing washers into the valve body.
5. Replace the packing gland, stem, and top works assembly into the valve body.
6. Tighten the packing gland to the appropriate torque for the valve. Suggested packing gland torque values are listed in the Technical Information section of the High Pressure Equipment Company Catalog.
7. Refasten the operator/ mounting bracket to the body.

Stem Replacement Instructions:

1. Relieve the system pressure. Remove the valve from the system and place it securely in a vice.
2. Remove the cap screws holding the operator mounting bracket to the body.
3. Unscrew the packing gland and remove the body.
4. Loosen the stem nut.
5. Note the length that the stem projects from the shaft. Remove the old stem. Assemble the stem nut onto the new stem and insert the new stem into the shaft. Tighten the stem nut.
6. Replace the packing if required.
7. Replace the packing gland, stem, and top works assembly into the valve body.
8. Tighten the packing gland to the appropriate torque for the valve. Suggested packing gland torque values are listed in the Technical Information section of the High Pressure Equipment Company Catalog.