



hubbell industrial controls, inc.

100P

October 2009

Furnas Brand Pressure Switches



- Controls for Air Compressors and Water Systems
- Special Application Switches Available
- Made in the U.S.A.

Hubbell Industrial Controls, Inc
4301 Cheyenne Drive, Archdale, NC 27263
Telephone (336) 434-2800 • FAX (336) 434-2803
www.Hubbell-ICD.com



Furnas Brand Pressure Switches

Class 69J Series Pressure Switch - Air Systems

Furnas Brand Class 69J Switch Standard Features Include:

- 3 and 5 HP 200 PSI maximum
- Improved unloader valve design
- Several terminal options
- Optional bottom cable entry
- Silver cad-oxide brazed contacts
- Various pipe locations
- Choice of auto-Off lever locations
- UL listed and CSA Certified
- CE and CCC approved
- 1/4" female NPT connection standard
- 4 x 1/4" female NPT available



Designed to be the most adaptable switch on the market, the 69J offers the user the flexibility to build the pressure switch around the compressor, not the other way around. The unloader can be mounted on either side, and can be rotated to any of eight different positions, allowing for quicker assembly and shorter tubing. A Bottom Entry frame is also available with built in clamping strain relief for even quicker assembly. With thousands of variations right off the production line, the 69J provides maximum flexibility at minimum cost. With UL, CSA, CE, and CCC approvals, the 69J is designed to be sold anywhere in the world.

Electrical Ratings		Horsepower				
Catalog No.	Control Circuit	1 Phase		3 Phase		DC
		120V	240V	240V	480-600V	32V-230V
69JF	A600	1.5	2.0	3.0	-	1/4
69JG	A600	2.0	3.0	5.0	1	1/2

Min. Close Cut-In	Max. Open Cut-Out	Differential Range	Factory Setting	NEMA 1 General Purpose Cat. No.
60 psi	110 psi	15-25 psi	80-100	69JF6
60 psi	110 psi	15-25 psi	80-100	69JG6
50 psi	145 psi	25-33 psi	95-125	69JF7
50 psi	145 psi	25-33 psi	95-125	69JG7
90 psi	165 psi	25-38 psi	115-150	69JF8
90 psi	165 psi	25-38 psi	115-150	69JG8
100 psi	175 psi	30-40 psi	145-175	69JF9
100 psi	175 psi	30-40 psi	145-175	69JG9

Pressure in pounds per square inch

Class 69ES Series Pressure Switch - Water Systems

Furnas Brand Class 69ES Switch

Standard Features Include:



- Contact block replaceable without loss of system pressure
- 100% copper terminals with silver cad-oxide contact points
- Extra wide diaphragm orifice reduces clogging
- Roomy wiring space
- Visible contacts
- Enclosed, state of the art switch mechanism
- Rugged, non-metallic cover
- Two large ground screws
- UL listed
- CSA certified
- Optional pulsation orifice
- ¼ F NPT fitting standard; ¼ M NPT & ¼" barb fitting available

Electrical Ratings		Horsepower				
Catalog No.	Control Circuit	1 Phase		3 Phase		DC
		120V	240V	240V	480-600V	32V-230V
69ES1	A600	1.5	2.0	3.0	-	1/4
69ES2	A600	2.0	3.0	5.0	1	1/2

Min. Close Cut-In	Max. Open Cut-Out	Differential Range	Factory Setting	NEMA 1 General Purpose Cat. No.
10 psi	80 psi	15-25 psi	30-50	69ES1
10 psi	80 psi	15-25 psi	30-50	69ES2

Class 69H Series Pressure Switch - Air Systems

Furnas Brand Class 69H Switch

Standard Features Include:

- Corrosion resistant cover
- Straight through wiring
- Visible contacts- 2 pole double break
- No-drift pressure settings
- Easy to adjust
- Unloader valve available
- UL Listed and CSA Certified



Catalog No.	Factory Setting	Min. Close Cut-In	Max. Open Cut-Out	Differential Range	1 Phase		3 Phase		DC
					120V	240V	240V	480-600V	32V-230V
69HA1/HAU1	115-150	40	250	35-60	2.0	3.0	5.0	5.0	2.0
69HB1/HBU1	115-150	40	250	35-60	2.0	5.0	5.0	5.0	2.0
69HA2/HAU2	100-125	10	125	20-35	2.0	3.0	5.0	5.0	2.0
69HB2/HBU2	100-125	10	125	20-35	2.0	5.0	5.0	5.0	2.0
69HA3/HAU3	30-40	15	60	7-15	2.0	3.0	5.0	5.0	2.0
69HB3/HBU3	30-40	15	60	7-15	2.0	5.0	5.0	5.0	2.0

Pressure in pounds per square inch

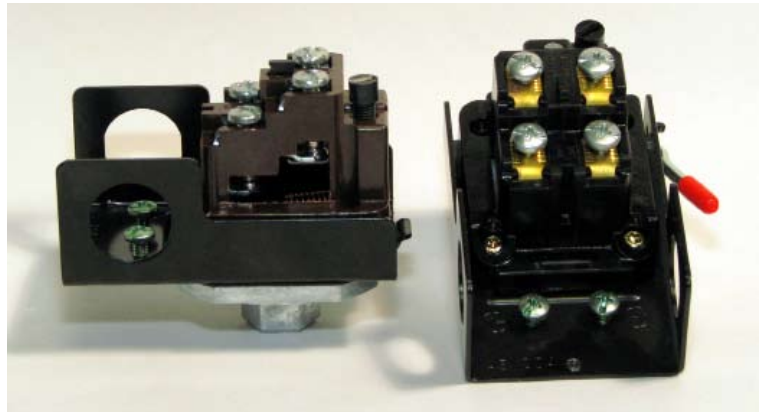
Furnas Brand Pressure Switches

Class 69W Series Pressure Switch - Water Systems

Furnas Brand Class 69W Switch

Standard Features Include:

- Corrosion resistant non-metallic cover
- Straight through wiring
- Visible contacts- 2 pole double break
- No-drift pressure settings
- Easy to adjust
- UL Listed and CSA Certified



Class 69W Special Application Pressure Switches

Reverse Action-69WR

Closes the contacts on rising air or water pressure designed to ground ignition on gas driven pumps and compressors. Can also act as a low pressure alarm or to prevent pump operation at low pressure. Reset lever optional.

Hi-Gard-69WH

Wired in series with a standard switch. Designed to cut-out when a preset pressure is reached. Hi-Gard is used when it is desirable to limit the maximum pressure in a system. Must be manually reset to return to operation.

Gard-It-69WC

Wired in series with a standard switch. Designed to disconnect the pump if the system pressure falls considerably below the cut-in point of the regular pressure switch. The system is placed in automatic operation once the water supply returns by depressing the manual reset lever.

Gard-All- 69WE & WF

Combines the function of a standard pressure switch with the features of the Gard-It switch to provide protection against low pressure.

Cat. No.	Factory Setting	Cut-Off Min.	Max.	Static PSI	1 Phase		3 Phase		DC
					120V	240V	240V	480-600V	32V-230V
69WC7	12	3 psi	20 psi	150	1.5	2.0	3.0	-	1/4
69WH6	80	20 psi	100 psi	150	2.0	3.0	5.0	1.0	1/2

Cat. No.	Factory Setting	Min. Close	Max. Open	Differential Range	1 Phase		3 Phase		DC
					120V	240V	240V	480-600V	32V-230V
69WA4	30-50	5 psi	65 psi	15-30	1.5	2.0	3.0	-	1/4
69WB5	30-50	5 psi	80 psi	15-30	2.0	3.0	5.0	1	1/2
69WB2	5-10	3 psi	35 psi	6-15	2.0	3.0	5.0	1	1/2
69WB3	3-7	1 psi	12 psi	3-5	2.0	3.0	5.0	1	1/2
69WR7	125-95	35 psi	150 psi	30-45	1.5	2.0	3.0	-	1/4
69WR6	100-75	30 psi	100 psi	25-30	1.5	2.0	3.0	-	1/4
69WR5	50-30	10 psi	80 psi	17-22	1.5	2.0	3.0	-	1/4
69WR3	10-5	3 psi	40 psi	6-15	1.5	2.0	3.0	-	1/4
69WR2	7-3	1 psi	18 psi	3-12	1.5	2.0	3.0	-	1/4
69WEC	20-40	10 psi	70 psi	13-30	1.5	2.0	3.0	-	1/4
69WFC	20-40	10 psi	70 psi	13-30	2.0	3.0	5.0	-	1/3

Pressure in pounds per square inch



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<http://www.hubbell-icd.com>
Sales@hubbell-icd.com