

DATA SHEET

INLET PRESSURE REGULATORS



Brass Models: 7069, 7071



Model 7071

Model 7069

FEATURES

- Prevents over pressure or pressure spikes at the pump inlet.
- Convenient, compact in-line installation.
- Tamper-proof design protects pumps from neglect or improper system conditions.
- Reduces inlet water pressures of 40 - 200 psi to pump inlet pressures of 30 - 45 psi.

SPECIFICATIONS

	U.S.	Metric
7069		
Pressure Range to Pump	30 - 45 psi	2.1 - 3.1 bar
Discharge Port	3/4" MGH	3/4" MGH
Discharge Port w/adapter 1/2"	1/2" NPT(F)	1/2" NPT(F)
Discharge Port w/adapter 3/4"	3/4" NPT(F)	3/4" NPT(F)
Weight	6.22 oz.	0.17 kg
Dimensions	1.67 x 2.64"	42.4 x 67.1 mm
7071		
Pressure Range to Pump	30 - 45 psi	2.1 - 3.1 bar
Discharge Port w/adapter 1/2"	1/2" NPT(F)	1/2" NPT(F)
Weight	7.77 oz.	0.22 kg
Dimensions	1.67 x 3.29"	42.4 x 83.6 mm

COMMON SPECIFICATIONS

	U.S.	Metric
Maximum Flow*	10 gpm	38 lpm
Pressure Range to Regulator	40 - 200 psi	2.8 - 14 bar
Maximum Temperature	190° F	87° C
Inlet Port	3/4" FGH	3/4" FGH

*See Inlet Regulation chart on reverse side

SELECTION

This pressure reducing valve is designed for system capacity up to 10 gpm and inlet pressures between 40 and 200 psi. Do not exceed the rated capacity for this valve. Select the valve closest to the line pressure and system flow from the Inlet Pressure Regulation chart.

The preset feature of this valve offers a safeguard against improper pressure setting, neglecting to initially set the valve, or accidentally disturbing the valve setting during installation or servicing. Note the changes in pressure regulation that occur with changes in system flow and water pressure to the regulator.

INSTALLATION

The inlet pressure regulator is designed to be installed in the inlet line close to the pump inlet. Connect standard inlet **flexible hose between pump inlet and Inlet Pressure Regulator** for optimum performance. The inlet pressure regulator will protect the inlet seals of the pump from excessive pressures caused by either an over pressurized inlet line or by-pass pressure spikes. Note: Install the valve **between the pump inlet and by-pass line connection** when the by-pass is returned to the inlet line.

PARTS LIST

P/N	MATL	DESCRIPTION	MODEL	QTY
33924	RBR	Gasket - 3/4" GH	7069, 7071	1
33923	BB	Discharge Adapter - 3/4" FGH to 1/2" NPT(F)	7069	1
31801	BB	Discharge Adapter - 3/4" FGH to 3/4" NPT(F)	7069	1
31802	BB	Inlet Adapter 3/4" MGH to 3/4" NPT(F)	7069, 7071	1

Material Codes (Not Part of Part Number): BB=Brass RBR=Rubber

7069, 7071 Inlet Pressure Regulation Chart

Pump Inlet Pressure at Selected Water Supply Pressures PSI (BAR)

System Flow		40	60	80	100	150	200
gpm	lpm	(2.8)	(4)	(5.5)	(6.9)	(10)	(14)
3	11.4	30	30	30	35	40	45
5	19	30	30	30	35	40	40
7	27	N/A	30	30	30	35	40
10	38	N/A	N/A	N/A	N/A	N/A	35

Not suitable for 10 gpm unless 200 psi inlet pressure.

OPERATION

When the liquid pressure entering the pump exceeds the inlet pressure regulator setting, a spring activated poppet valve begins to close and restricts part of the flow to the pump, reducing inlet pressure.

CAUTION

A non-rigid, flexible by-pass hose must be used to prevent excessive pressure spikes being directed through the inlet pressure regulator which may cause the valve to fail, damage to the pump and void the warranty.

TROUBLESHOOTING

The inlet pressure regulator is a maintenance-free valve, however, pumping abrasive liquids, scale buildup or inlet pressures exceeding 200 psi will cause premature wear or failure. As the inlet pressure regulator wears, a gradual external leaking will occur. Replace the inlet pressure regulator when leaking becomes excessive.

WARRANTY

90 Day Warranty.

Refer to complete Cat Pumps Warranty for further information.

⚠ CAUTIONS AND WARNINGS

All High Pressure Systems require a primary pressure regulating device (i.e. regulator, unloader) and a secondary pressure relief device (i.e. pop-off valve, relief valve). Failure to install such relief devices could result in personal injury or damage to pump or property. Cat Pumps does not assume any liability or responsibility for the operation of a customer's high pressure system.

Read all CAUTIONS and WARNINGS before commencing service or operation of any high pressure system. The CAUTIONS and WARNINGS are included in each service manual and with each Accessory Data sheet. CAUTIONS and WARNINGS can also be viewed online at www.catpumps.com/cautions-warnings or can be requested directly from Cat Pumps.

WARRANTY

View the Limited Warranty on-line at www.catpumps.com/warranty.



CAT PUMPS

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