ENGINEERING TOMORROW



AB-QM™ Valves

Achieving **Energy Efficiency** & **Comfortable Classroom** Settings In Universities

Learn how AB-QM™ Pressure Independent Temperature Control Valves (PICVs) have been increasing student comfort, reducing noise/complaints, and providing substantial energy savings for Universities.



HVAC Energy Consumption Savings by installing the AB-QM specialty control valve.





Scan to access
ABQMvalves.com

www.ABQMvalves.com

EXPERIENCING PROBLEMS WITH YOUR HVAC SYSTEM?

- Student Comfort Issues?
- Room Temperature Complaints (Some are hot, others are cold)?
- Increased Maintenance Costs?
- Noise issues?
- Balancing and Flow Issues?
- · Wasted energy?

So what if there was a way to:

- √ Reach federal energy reduction requirements by cutting energy consumption?
- √ Increase classroom comfort?
- √ Reduce complaints & minimize maintenance?

Would you be interested?...



Danfoss AB-QM[™] Pressure Independent Control Valves
The AB-QM[™] is a specialty control valve that provides flows to match loads & cuts energy consumption for HVAC by 20-50%!

How They Work:

- Continual Balancing function maintains system performance even at varying loads!
- Pressure Regulator eliminates over-pumping providing favorable energy savings!
- AB-QM[™] valves prevent energizing additional chillers (\$\$\$ by maintaining desired Delta T.
- AB-QM[™] valves improve system operation reducing equipment requirement.

Treat the Cause, Not the Symptom!





AB-QM™ BENEFITS EVERYONE INVOLVED...



Student/Professor Benefits Include:



Facility Director Benefits Include:

- Happy Students & Professors
 Real Energy Savings \$\$\$
 Maintenance Minimized
 System Back into Proper Balance (Less Problems, Less Calls)



Contractor Benefits Include:

WHY DANFOSS IS DIFFERENT...

Danfoss AB-QM™ is the only PICV on the market with third-party testing that proves it's accuracy!

- Third party testing proves accuracies of ±5% of setpoint
- Danfoss rated the most accurate PICV when tested with other major leading competitors on the market.1
- Analysis indicates that the uncertainty was better than 0.25% at the 95% confidence level for each test run.²

¹ BSRIA Report 52724/1. ² Alden Research Laboratory Report No. 2141DFI001-R1. For more information or to view the reports in entirety please contact your local representative.





UNIVERSITY PROJECT REFERENCES

The AB-QM™ PICV has proven it's accuracy & reliability, which is evident from the list of prestigious Universities who have installed only the very best; the Danfoss AB-QM™ valve.

- Caltech
- Colorado University
- Purdue University
- Georgia Tech
- Kansas State University
- Louisiana State University
- Missouri University of Science
 Technology
- Northwestern University
- Pensacola Christian College
- Purdue University
- Rochester Institute of Technology
- Syracuse University
- The Pennsylvania State University
- UC Santa Barbara
- University of Buffalo, New York

- · University of California, Irvine
- University of Florida
- University of Omaha, Nebraska
- · and more!

QUICK SELECT GUIDE

Danfoss knows that size matters and is the only manufacturer of PICV's on the market with sizes ranging from $\frac{1}{2}$ " to 10". We offer valves to fit any size application with extensive flow ranges; .25 GPM ($\frac{1}{2}$ " Low Flow) to 1629 GPM (10" High Flow). Use our quick select guide below to find the perfect AB-QM[™] valve for your application.

Valve Size	Flow Range (GPM)
½" Low Flow	0.25 to 1.2
1/2"	1.0 to 5
3/4"	1.5 to 7.5
1"	2.4 to 12
1-1/4"	3.5 to 17.5
1-1/2"	7 to 33
2"	22 to 55
2 ½" ANSI Flanged	34 to 85
3" ANSI Flanged	48 to 120

Valve Size	Flow Range (GPM)
4" ANSI Flanged	66 to 165
5" ANSI Flanged	158 to 395
5" High Flow	211 to 528
6" ANSI Flanged	256 to 640
6" High Flow	403 to 1008
8" ISO Flanged	335 to 836
8" High Flow	440 to 1100
10" ISO Flanged	493 to 1232
10" High Flow	652 to 1629



For more information on **AB-QM™** & how they can **help your University** please contact us!

Please contact your local representative or call: 1.866.375.4822, or email: heatingsales@danfoss.com.

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