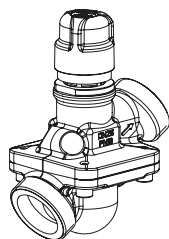
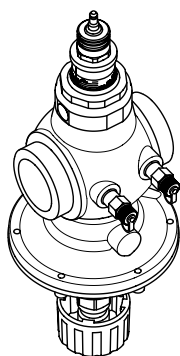


Installation Guide

AB-QM (½"-2")



AB-QM (½"-1¼")



AB-QM (1½"-2")

Temp range: 5 to 250 °F (–15 to 121 °C)
Max. static pressure: 300 psi (PN 20)
Max. Diff. pressure: 58 psi (4 bar)

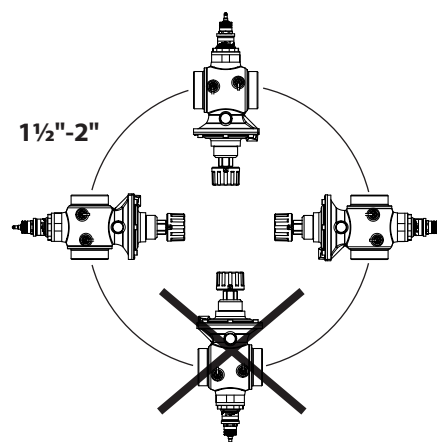
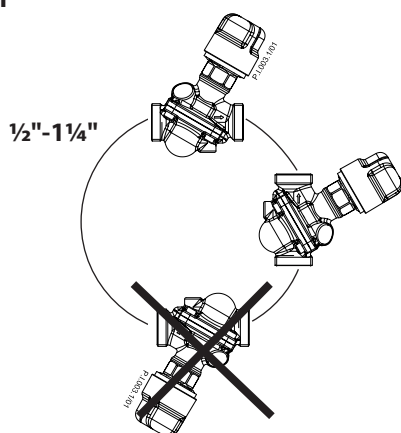
Connections- 2 reg. per valve

AB-QM	Code No. (MNPT)	Code No. (F. Solder)
½"	003Z0282	003Z0292
¾"	003Z0283	003Z0293
1"	003Z0284	003Z0294
1¼"	003Z0285	003Z0295
1½"	003Z0286	003Z0296
2"	003Z0287	003Z0297

Electric Actuators

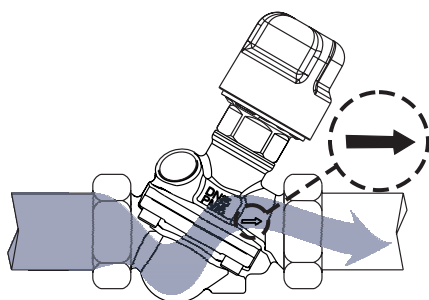
Style	Signal	Code No.
TWA-Z	ON/OFF, 2-wire	082F1222
ABNM-Z	Input: 0-10 VDC, 3-wire	082F1094
Required adapter for the ABNM-Z actuator		082F1072
AMI 140	ON/Off, 3 wire	082H8048
AMV 110 NL	3-point, 3-wire	082H8056
		082H8076
AME 110 NL	Input: 0-10 VDC/4-20 mA Output: 0-10 VDC	082H8057
		082H8077
AME 435 QM		082H8087
		082H0171

Orientation

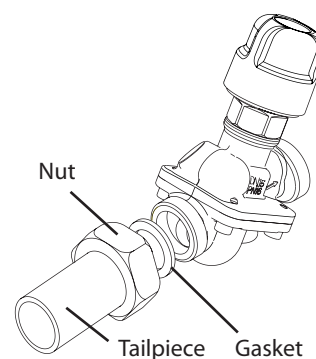


Actuators should not be installed downward

Flow Direction



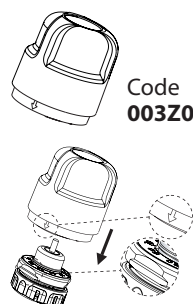
Assembly



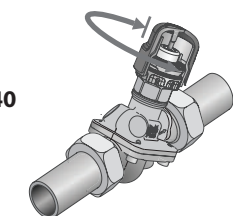
Installation Guide AB-QM (½"-2")

Manual Shutoff (½"-1¼") plastic

Included with all ABQM valves
 Δp max = 14.5 psi (1 bar)



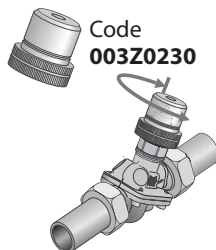
Code
003Z0240



Clockwise: Close
 Counter-Clockwise: Open

Manual Shutoff (½"-1¼") brass

Order separately if required
 Δp max = 300 psi (20 bar)

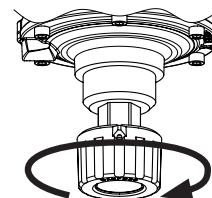


Code
003Z0230

Clockwise: Close
 Counter-Clockwise: Open

Manual Shutoff (1½"-2")

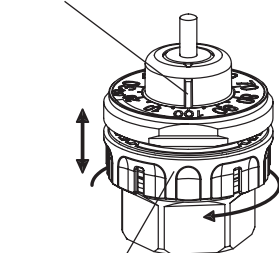
Δp max = 300 psi (20 bar)



2.2 lbf ft (3 Nm)

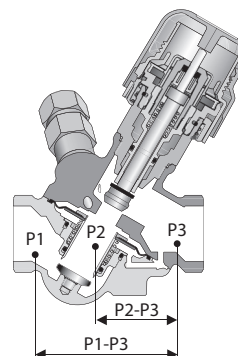
Flow Adjustment (½"-1¼")

Red Index



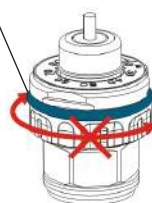
Gray Adjustment
 Lift Ring

Min. 2.3 psi to 2.9 psi differential pressure to inlet of valve, P1-P3 for proper setting of ABQM

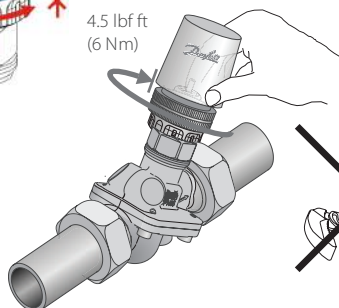


Locking (½"-1¼")

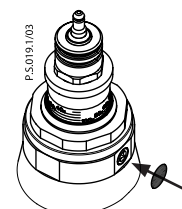
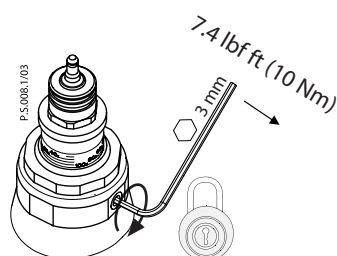
Code **003Z0236**



4.5 lbf ft
 (6 Nm)



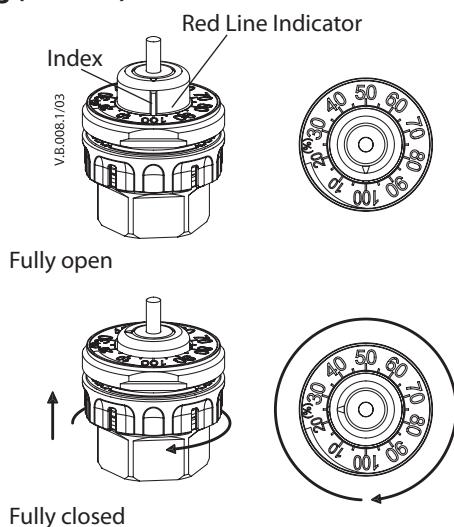
Locking (1½"-2")



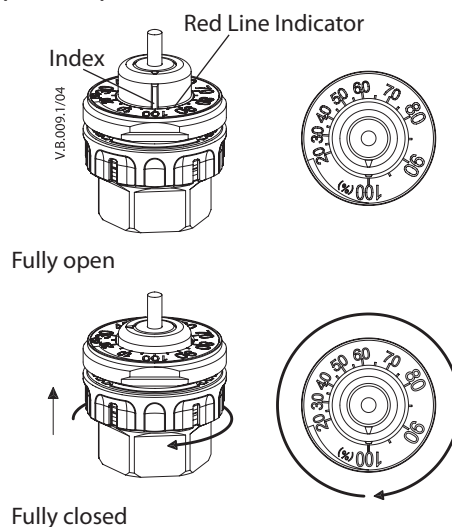
(Locked label)

Installation Guide AB-QM (½"-2")

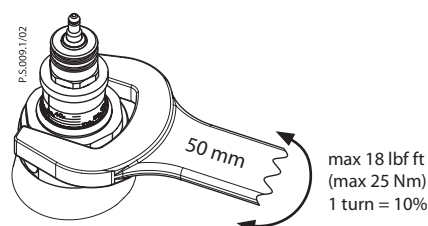
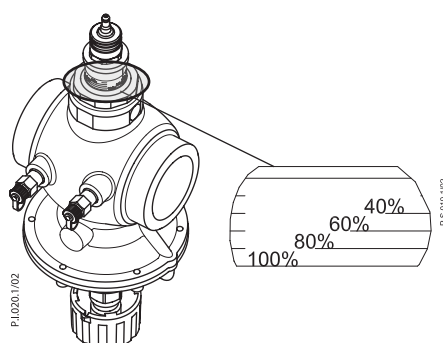
Setting (½" & ¾")



Setting (1" & 1¼")



Setting (1½"-2")

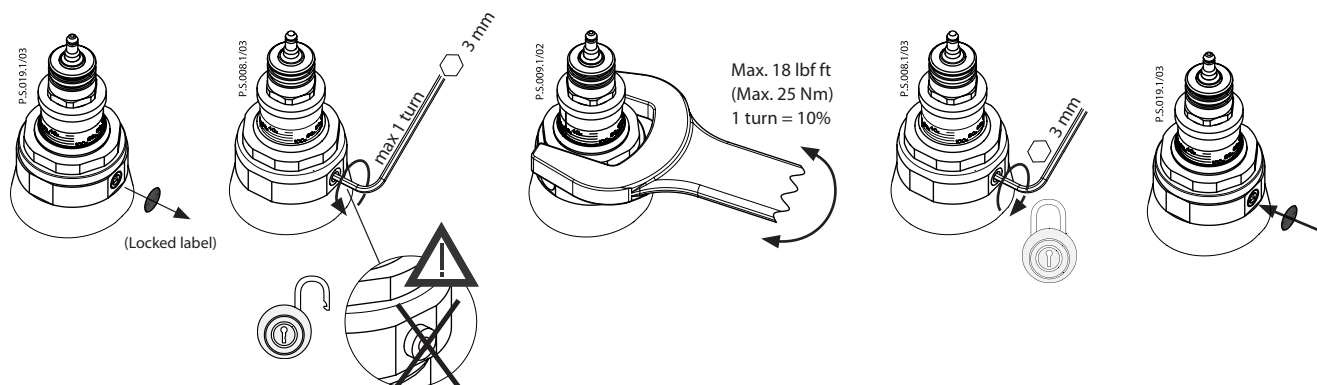


Setting	Flow (GPM)					
	½"	¾"	1"	1¼"	1½"	2"
20%	1.0	1.5	2.4	3.5	6.6	-
25%	1.25	1.9	3.0	4.4	8.2	-
30%	1.5	2.2	3.6	5.3	9.9	-
35%	1.75	2.6	4.2	6.1	11.5	-
40%	2.0	3.0	4.8	7.0	13.2	22.0
45%	2.25	3.4	5.4	7.9	14.8	24.7
50%	2.5	3.7	6.0	8.8	16.5	27.5
55%	2.75	4.1	6.6	9.6	18.1	30.2
60%	3.0	4.5	7.2	10.5	19.8	33.0
65%	3.25	4.9	7.8	11.4	21.4	35.7
70%	3.5	5.2	8.4	12.3	23.1	38.5
75%	3.75	5.6	9.0	13.1	24.7	41.2
80%	4.0	6.0	9.6	14.0	26.4	44.0
85%	4.25	6.4	10.2	14.9	28.0	46.7
90%	4.5	6.7	10.8	15.8	29.7	49.5
95%	4.75	7.1	11.4	16.6	31.3	52.2
100%	5.0	7.5	12.0	17.5	33.0	55.0

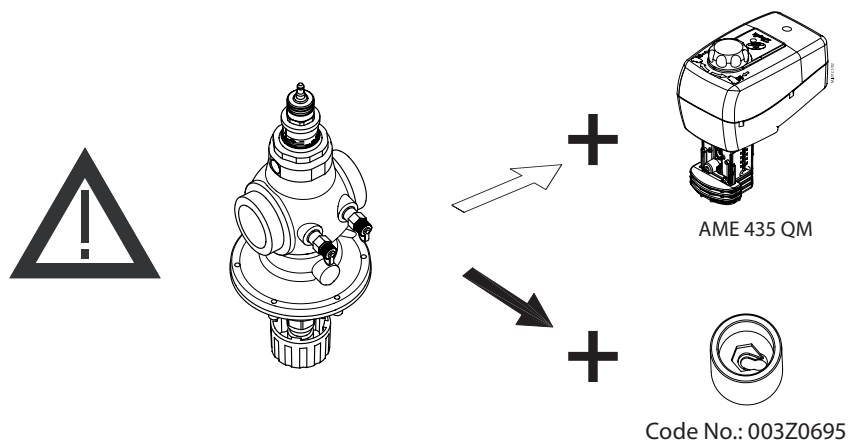
Note for 1½" and 2": 1 turn = 10%

Installation Guide AB-QM (½"-2")

Resetting (1½"-2")



Combinations for 1½"-2"



Danfoss Inc.

Refrigeration and A/C Controls Division
 11655 Crossroads Circle
 MD 21220 Baltimore
 USA
 Telephone: (410) 931-8250
 Fax: (410) 931-8256
 E-mail: baltimore@danfoss.com

Danfoss Inc.

6711 Mississauga Rd., Suite 410
 Mississauga,
 Ontario L5N 2W3
 Canada
 Telephone: (905) 285-2050
 Fax: (905) 285-2055

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