

# Pressure Independent Balancing and Control Valve **AB-QM**

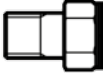


DN	Q <sub>max</sub> (l/h)	With measuring points		Without measuring points	
		External Thread	Code No.	External Thread	Code No.
10 LF	150	G ½ A	<b>003Z126100</b>	G ½ A	<b>003Z125100</b>
10	275		<b>003Z121100</b>		<b>003Z120100</b>
15 LF	275	G ¾ A	<b>003Z126200</b>	G ¾ A	<b>003Z125200</b>
15	450		<b>003Z121200</b>		<b>003Z120200</b>
20	900	G 1 A	<b>003Z121300</b>	G 1 A	<b>003Z120300</b>
25	1,700	G 1¼ A	<b>003Z121400</b>	G 1¼ A	<b>003Z120400</b>
32	3,200	G 1½ A	<b>003Z121500</b>	G 1½ A	<b>003Z120500</b>
40	7,500	G 2 S	<b>003Z077000</b>		
50	12,500	G 2½ A	<b>003Z077100</b>		
DN	Q <sub>max</sub> (l/h)	Flange Connection	Code No.		
50	12,500	PN 16	<b>003Z077200</b>		
65	20,000		<b>003Z077300</b>		
80	28,000		<b>003Z077400</b>		
100	38,000		<b>003Z077500</b>		
125	90,000		<b>003Z070500</b>		
125 HF	110,000		<b>003Z071500</b>		
150	145,000		<b>003Z070600</b>		
150 HF	190,000		<b>003Z071600</b>		
200	190,000		<b>003Z070700</b>		
200 HF	250,000		<b>003Z071700</b>		
250	280,000		<b>003Z070800</b>		
250 HF	370,000		<b>003Z071800</b>		

- No Kv or authority calculations needed. Flow is the only parameter to be considered when designing
- Maximum setting corresponds with international standards for flow speeds in pipes
- Linear or logarithmic characteristic when combined with gear actuators
- Compact design
- Easy commissioning
- Energy savings
- Increased comfort
- Easy trouble shooting
- Fast start-up - AB-QM does not need to be flushed or de-aired before use

The AB-QM is a PIBCV (Pressure Independent Balancing and Control Valve) which combines the benefits of a control valve and a differential pressure controller, which work in tandem to provide the ultimate in system control and setting accuracy. The differential pressure controller within the valve keeps a constant differential pressure across the valve cone, meaning that changes in system pressure do not affect the control characteristics of the valve.

Setting the valve is simple – all you need to know is the required flow through the valve, and the max flow of the valve. With these two figures you just divide one by the other to establish the correct setting for the valve e.g. Design flow (270l/h) / Valve max flow (450l/h) x 100 = 60% setting on the dial. Different sizes of ABQMs cover a range of maximum flows, enabling the right size valve for the application to be selected easily. The maximal flow speeds of AB-QM corresponds with the maximal flow speed through pipe dimensions according to international standards. With a standard M30x1.5 connection the AB-QM is suitable for a range of actuators providing control solutions for 0-10v, 3point and on/off control.

Accessories and Spare Parts			
Type	To pipe	To valve	Code No.
Union connection (1 pcs.) 	R ¾	DN 10	<b>003Z023100</b>
	R ½	DN 15	<b>003Z023200</b>
	R ¾	DN 20	<b>003Z023300</b>
	R 1	DN 25	<b>003Z023400</b>
	R 1¼	DN 32	<b>003Z023500</b>
	R 1½	DN 40	<b>003Z027900</b>
Tailpieces for soldering (2 nuts, 2 gaskets, 2 soldering nipples)	12 x 1 mm	DN 10	<b>065Z701600</b>
	15 x 1 mm	DN 15	<b>065Z701700</b>
Locking ring		DN 10-32	<b>003Z023600</b>
Shut-off & protection piece (max. closing pressure 16 bar)			<b>003Z023000</b>
Shut-off - plastic (max. closing pressure 1 bar)			<b>003Z024000</b>
Handle AB-QM (for details refer to instructions)		DN 40-100	<b>003Z069500</b>
		DN 125-250	<b>003Z069600</b>

For actuator combinations see page 74 and 75