

# Datasheet

## Automatic Balancing Valve, Type AQ

### Introduction:



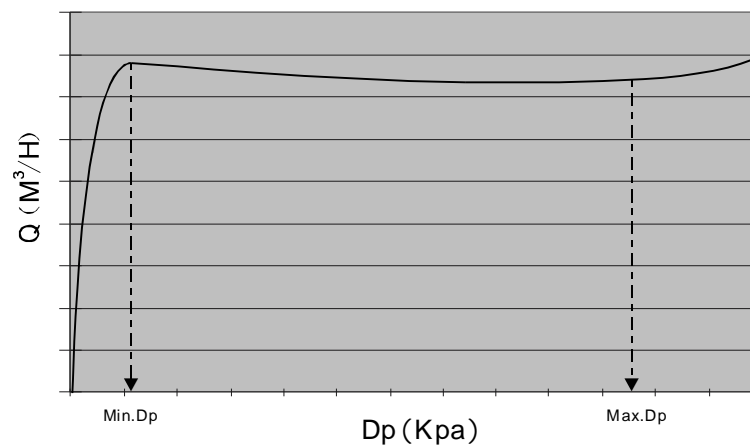
Danfoss AQ is a valve particularly designed for the balancing of both cooling- and heating circuits. By means of its automatic flow rate cartridge the flow rate is ensured as calculated by the design engineer, and the optimum flow rate is maintained at a constant level even under fluctuating pressure conditions.

The balancing occurs by means of a flow rate cartridge, in which the Kv value is changed with the differential pressure changing to keep a constant flow in a wide working pressure range.

### Technical Data:

Type	DN 40	DN50~80	DN 100~400
Pressure stage	PN25		
Working pressure range (Kpa)	21~210 40~400	21~210 40~400	21~210 35~210 40~400
Flow accuracy	±5%		
Flow medium	Water for closed heating and cooling systems		
Medium temperature	-10 ~+120 °C		
Connection	RP 1½	Flange mounting	Flange mounting
Material of valve body	304 stainless steel	35# cast steel	35# cast steel
Material of cartridge	304 stainless steel		

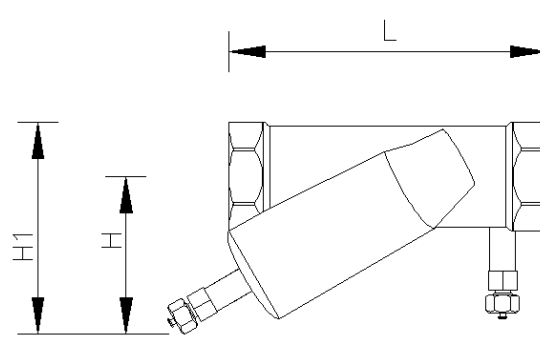
### Flow rate graph:



Ordering  
With Measuring Nipples

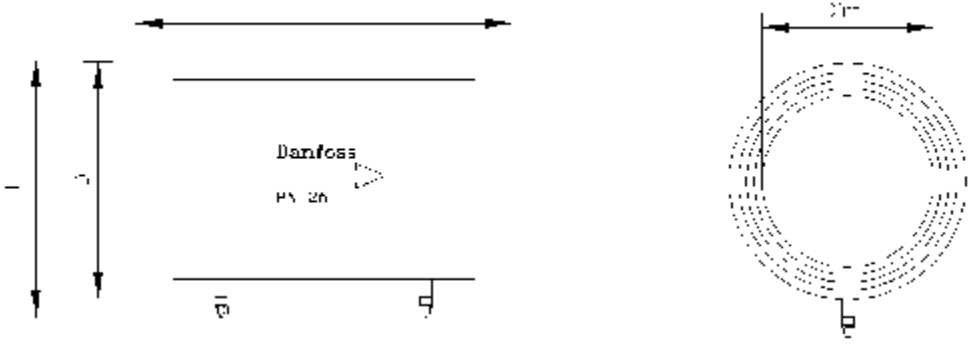
	Dimension	Code Number	Working Pressure Range (Kpa)	Flow Range (M <sup>3</sup> /H)
AQ	DN 40	003Z3758	21~210	1.02~5.00
		003Z3759	40~400	1.37~6.66
AQ	DN 50	003Z3760	21~210	3.96~36.32
		003Z3761	40~400	5.29~22.72
AQ	DN 65	003Z3762	21~210	3.96~36.32
		003Z3763	40~400	5.29~22.72
AQ	DN 80	003Z3764	21~210	3.96~36.32
		003Z3765	40~400	5.29~22.72
AQ	DN 100	003Z3766	21~210	3.96~72.65
		003Z3767	35~210	4.30~80.00
		003Z3768	40~400	5.29~45.43
AQ	DN 125	003Z3769	21~210	3.96~108.97
		003Z3771	40~400	5.29~68.15
AQ	DN 150	003Z3772	21~210	3.96~145.30
		003Z3773	35~210	4.30~153.29
		003Z3774	40~400	5.29~90.86
AQ	DN 200	003Z3775	21~210	3.96~254.27
		003Z3776	35~210	4.30~289.55
		003Z3777	40~400	5.29~159.01
AQ	DN 250	003Z3778	21~210	3.96~399.56
		003Z3779	35~210	4.30~450.00
		003Z3780	40~400	5.29~249.88
AQ	DN 300	003Z3781	21~210	3.96~544.86
		003Z3782	35~210	4.30~630.00
		003Z3783	40~400	5.29~340.74
AQ	DN 350	003Z3784	21~210	3.96~690.16
		003Z3785	35~210	4.30~834.55
		003Z3786	40~400	5.29~431.60
AQ	DN400	003Z3787	21~210	3.960~871.78
		003Z3788	35~210	4.300~1008.00
		003Z3789	40~400	5.292~544.80

Diminsion:



Dimension: Unit:mm

DN	L	H	H1	Weight(kg)
40	158	89	108	1.5



Dimension: Unit:mm

DN	Dim	L	D	H	Weight(kg)
50	86	188	106	131	3.7
65	86	188	110	135	4.2
80	86	188	112	137	4.2

Diminsion:

