Series W-STBV-16Q

Static Balancing Valve

Size: DN65-DN500

The Series W-STBV static balancing valves are designed for flow balancing in cooling, heating or process water systems.Its measuring points enable convenient system troubleshooting.



Features

- Accurate flow control
- Numerical indicator of opening degree on the hand wheel
- Lockable set position
- Shut-off function for troubleshooting or maintenance
- Using balanced valve core, easy to adjust
- Self-sealing measuring points to protect against leakage
- No-Rising stem, Variable Orifice

Pressure-Temperature

- Nominal Pressure: PN16
- Temperature Range: -10°C~120°C

Test Pressures

Hydraulic
Shell: 24 bar
Seat: 18bar

Material

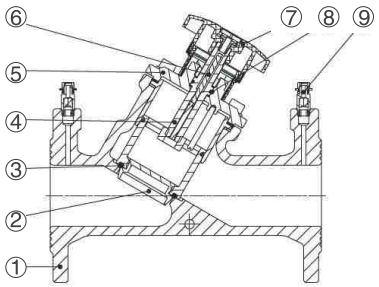
No.	Component	Material	Standard
1	Body	Ductile Iron	
2	Core	Bronze(DN65-DN150) Ductile Iron(DN200-DN300) Stainless Steel(DN350-DN500)	C84400 304
3	Seat Sealing	EPDM	
4	Stem	Brass(DN65-DN150) Stainless Steel(DN200-DN500)	
5	Bonnet	Ductile Iron	
6	Core Rod	Stainless Steel	
7	Handwheel	Nylon(DN65-DN200) Cast Aluminum(DN250-DN500)	
8	Stem Sealing	EPDM(DN65-DN300) PTFE(DN350-DN500)	
9	Measuring Orifices	Brass	

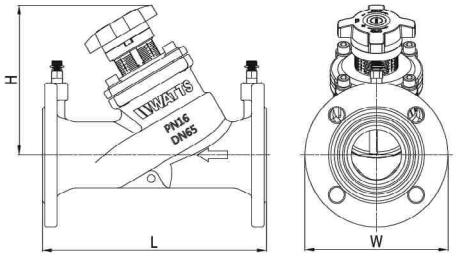
Specification

- Connection Standard: BS EN 1092-2
- Medium: cold and hot water/glycol
- Patent No: ZL 2013 2 0890615.7

Approval

WRAS APPROVED PRODUCT

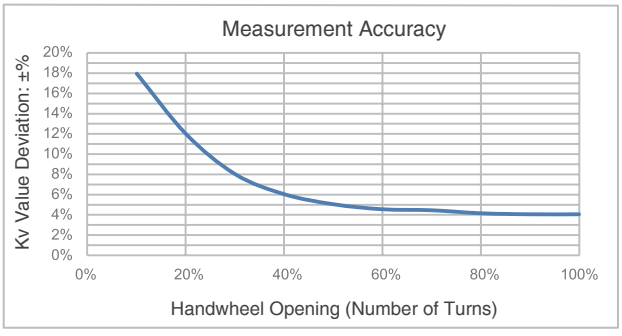




Installation Dimensions

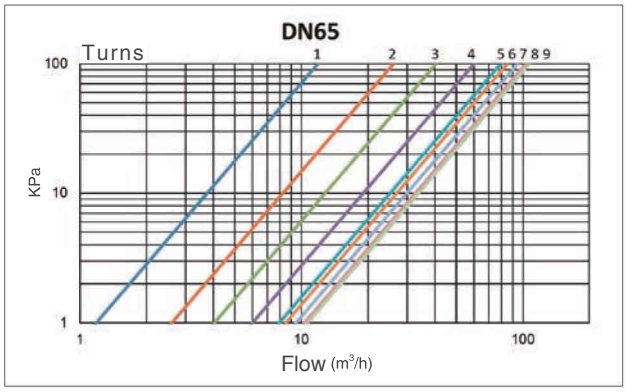
Size	L(mm)	H(mm)	W(mm)	Weight(Kg)	Kvs
DN65	290	195	185	15.6	94.47
DN80	310	215	200	20.0	137.31
DN100	350	230	220	26.3	211.20
DN125	400	330	250	38.1	330.22
DN150	480	350	285	52.6	408.32
DN200	600	420	340	91.7	759.21
DN250	730	460	405	152.3	1162.44
DN300	850	600	460	230.0	1703.45
DN350	980	595	520	300.0	2115.00
DN400	1100	635	580	413.0	3050.00
DN450	1200	688	640	567.0	3720.00
DN500	1250	745	715	682.0	4180.00

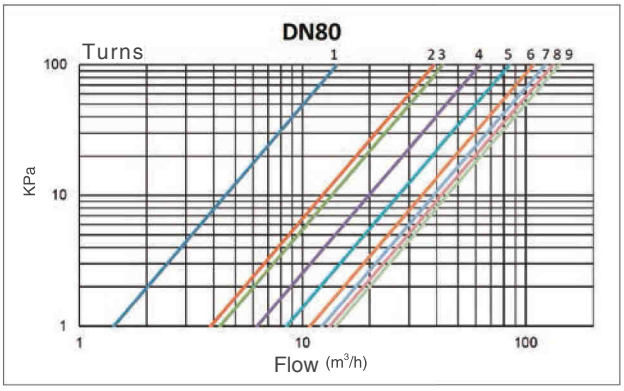
Kv Values

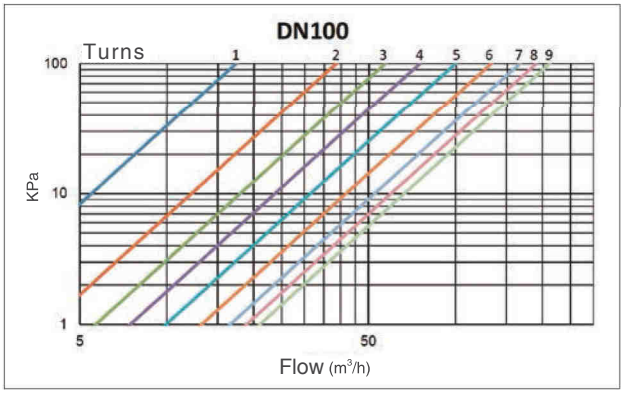


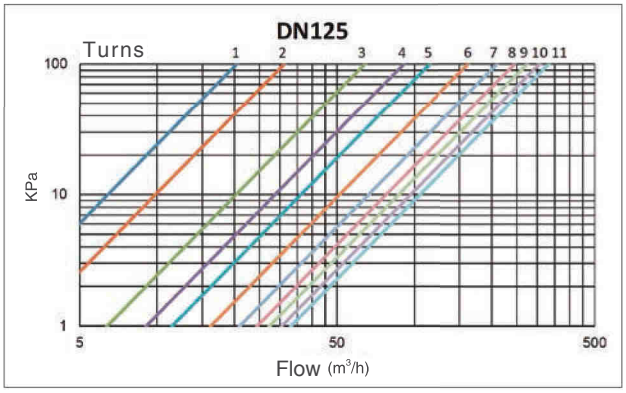
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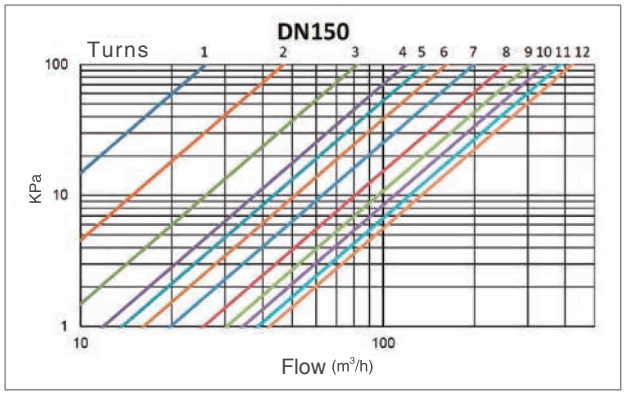
Characteristic Curves

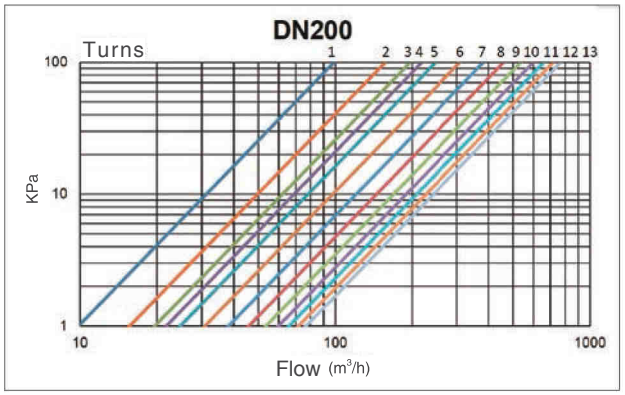






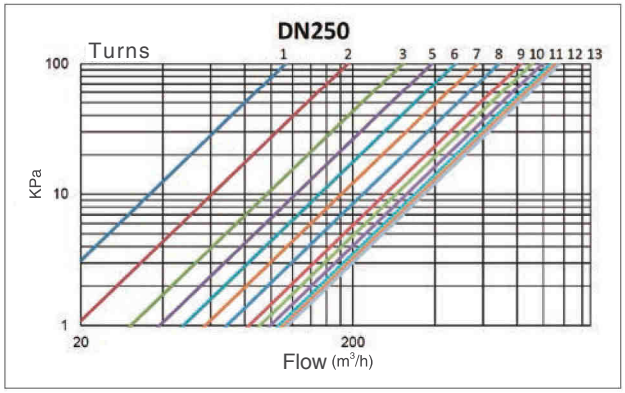


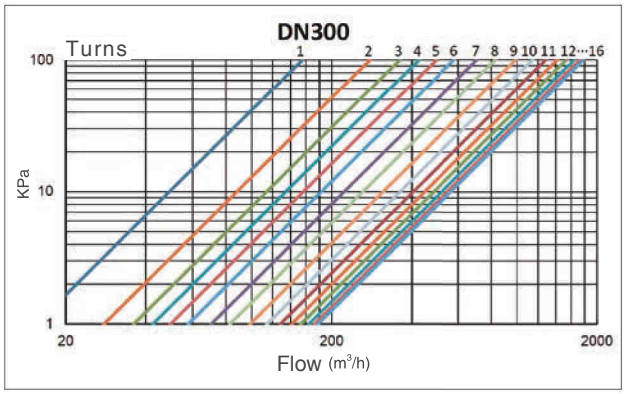


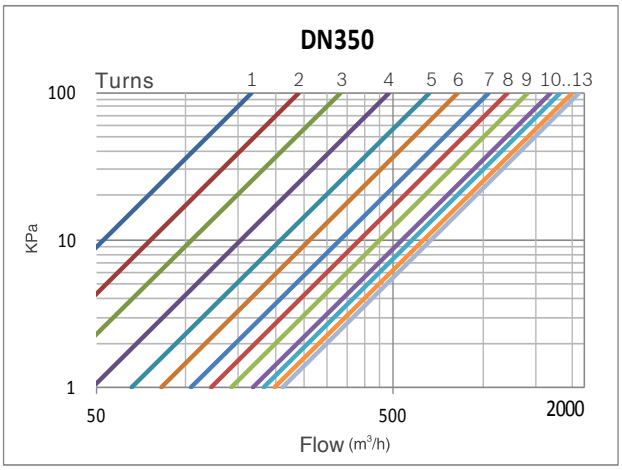


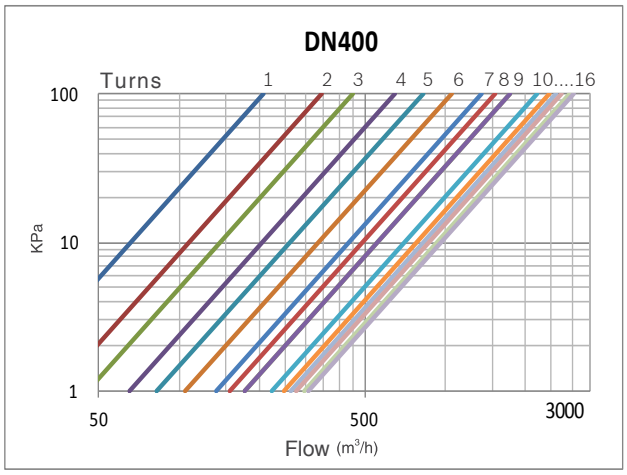
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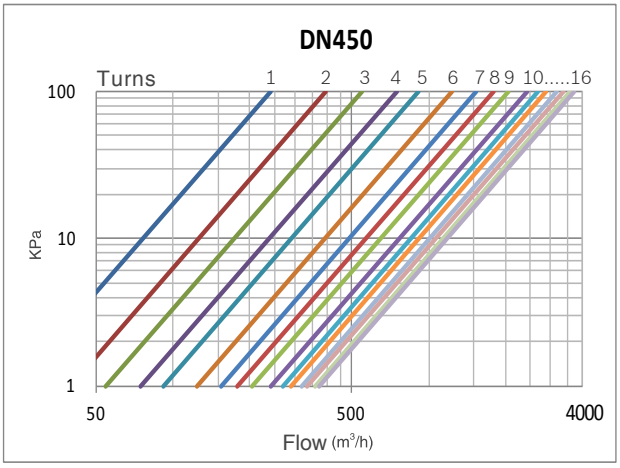
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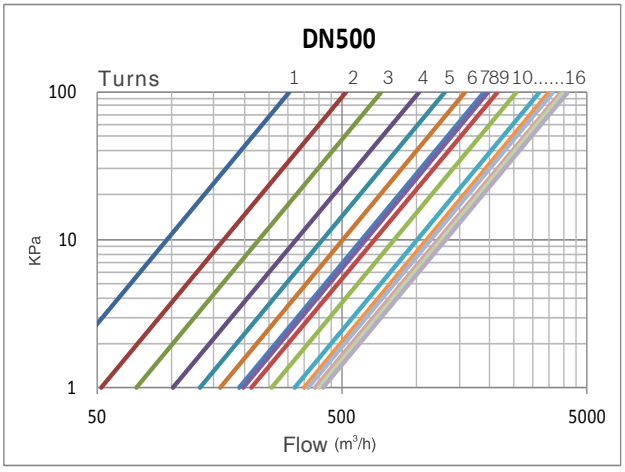










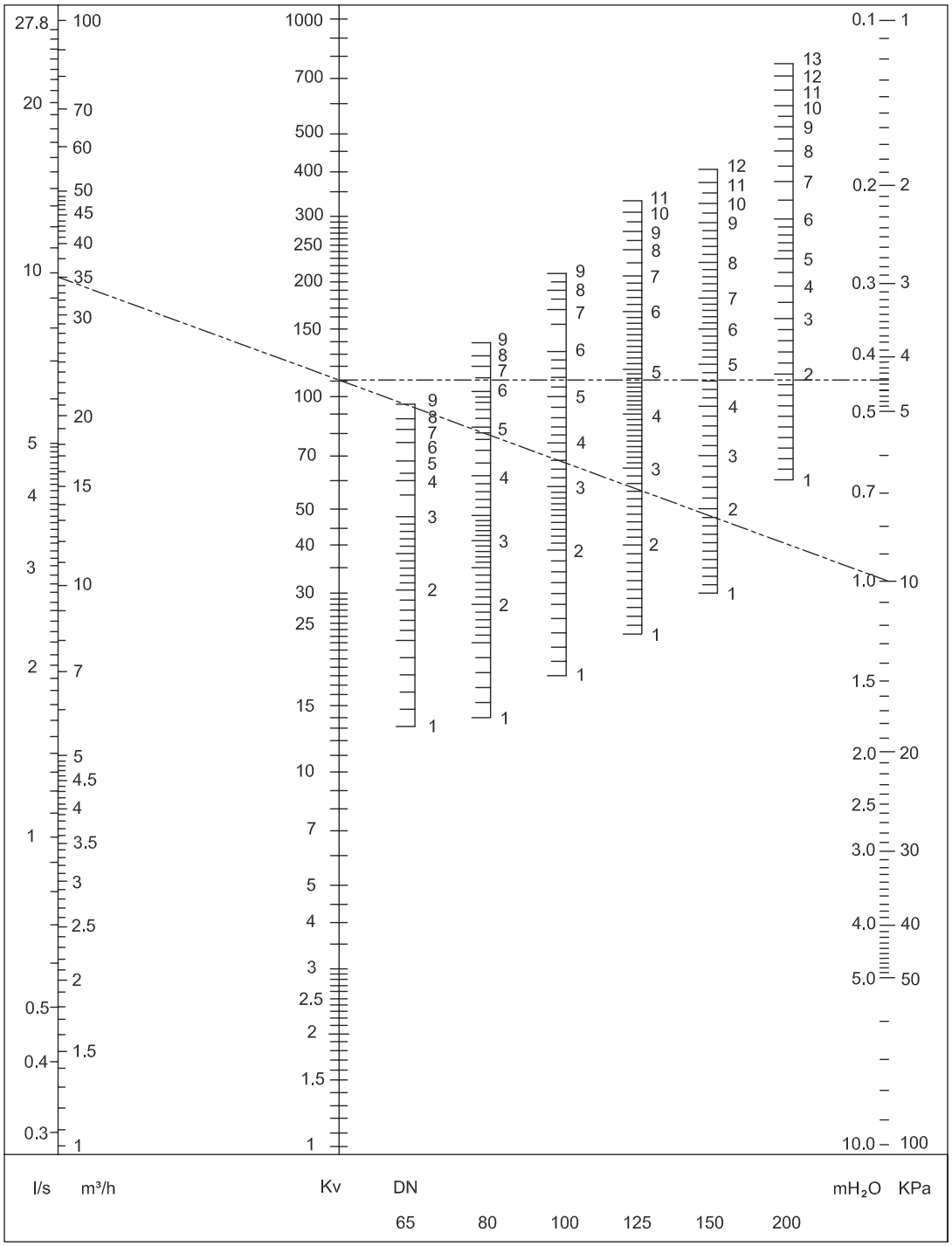


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Selection Drawing

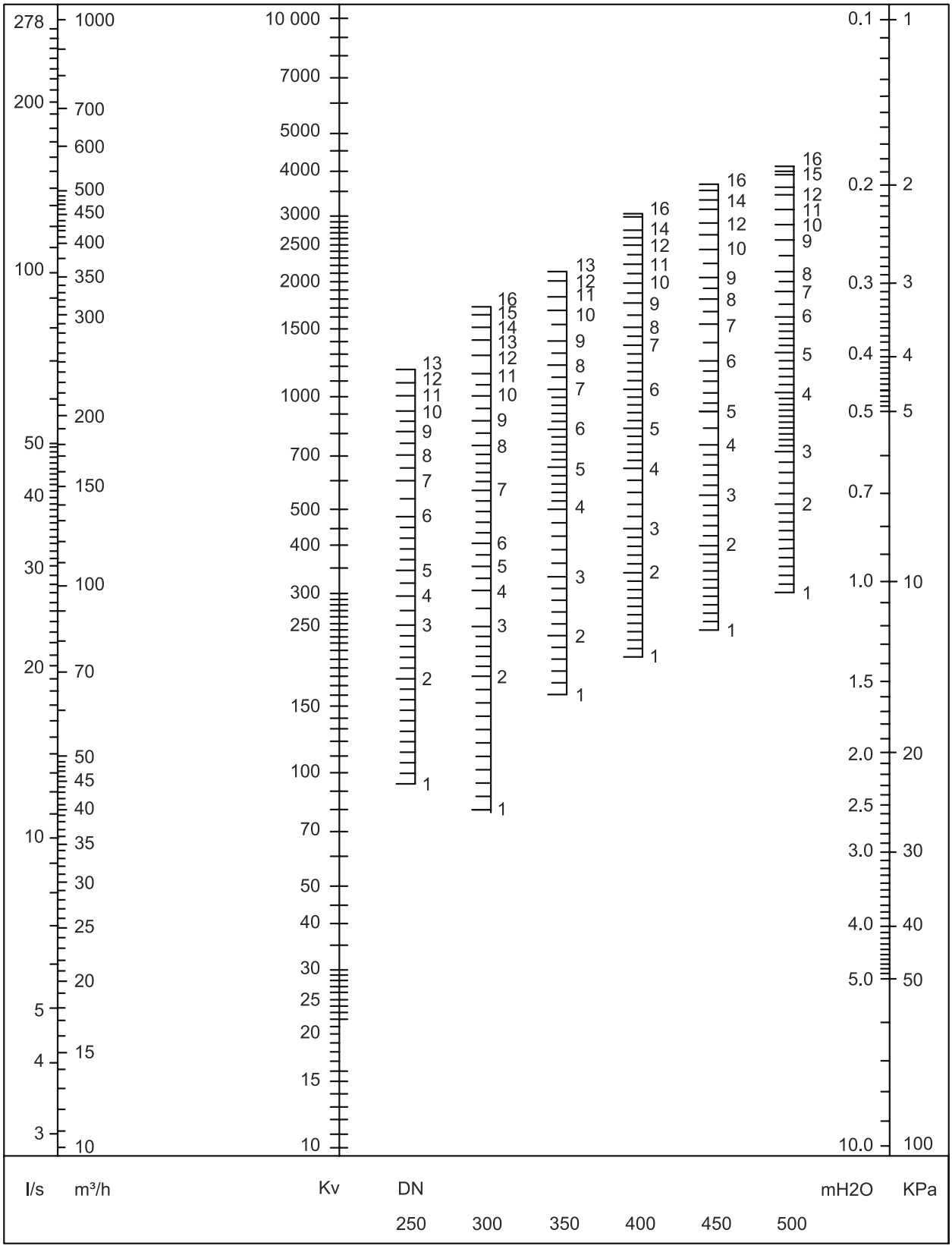
For example:
Q: An air conditioning system is equipped with a static balancing valve, with a design flow of 35 m^3/h and a pressure drop of 10 kPa. Now we need to select a suitable static balancing valve.

A: As shown in the below model selection line diagram, read out the position point with Q=35m^3/h from the left flow scale line, read the position point of 10 kPa from the right pressure drop scale line, connect the two points and the intersection point of Kv value scale line, and make the intersection point of horizontal line and the opening scale line of balance valve of different caliber. The intersection of DN80 intersection point is 6.9 circle, that of DN 100 intersection point is 5.4 circle, that of DN 125 intersection point is 4.8 circle, that of DN150 intersection point is 4.6 circle, and that of DN200 intersection point is 2.25 circle Based on the principle that the setting value is 75%, the DN80 balancing valve is recommended.



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