

Project



VAG - RIKO Plunger Valve

nominal size **600 [mm]**

01.12.2021

Pressure rate

pressure 40 bar

Herold

Anti cavitation cylinder

SZ 30

Static upstream pressure

H up 278 [mWC]

Static downstream pressure

H down 37 [mWC]

Pipe diameter upstream side

size pipe up 800 [mm]

Zeta value pipe upstream side

Zeta pipe up 450 estimated

Pipe diameter downstream side

size pipe down 800 [mm]

Zeta value pipe downstream side

Zeta pipe down 8 estimated

0

Zeta value VAG plunger valve

ξ 25,0

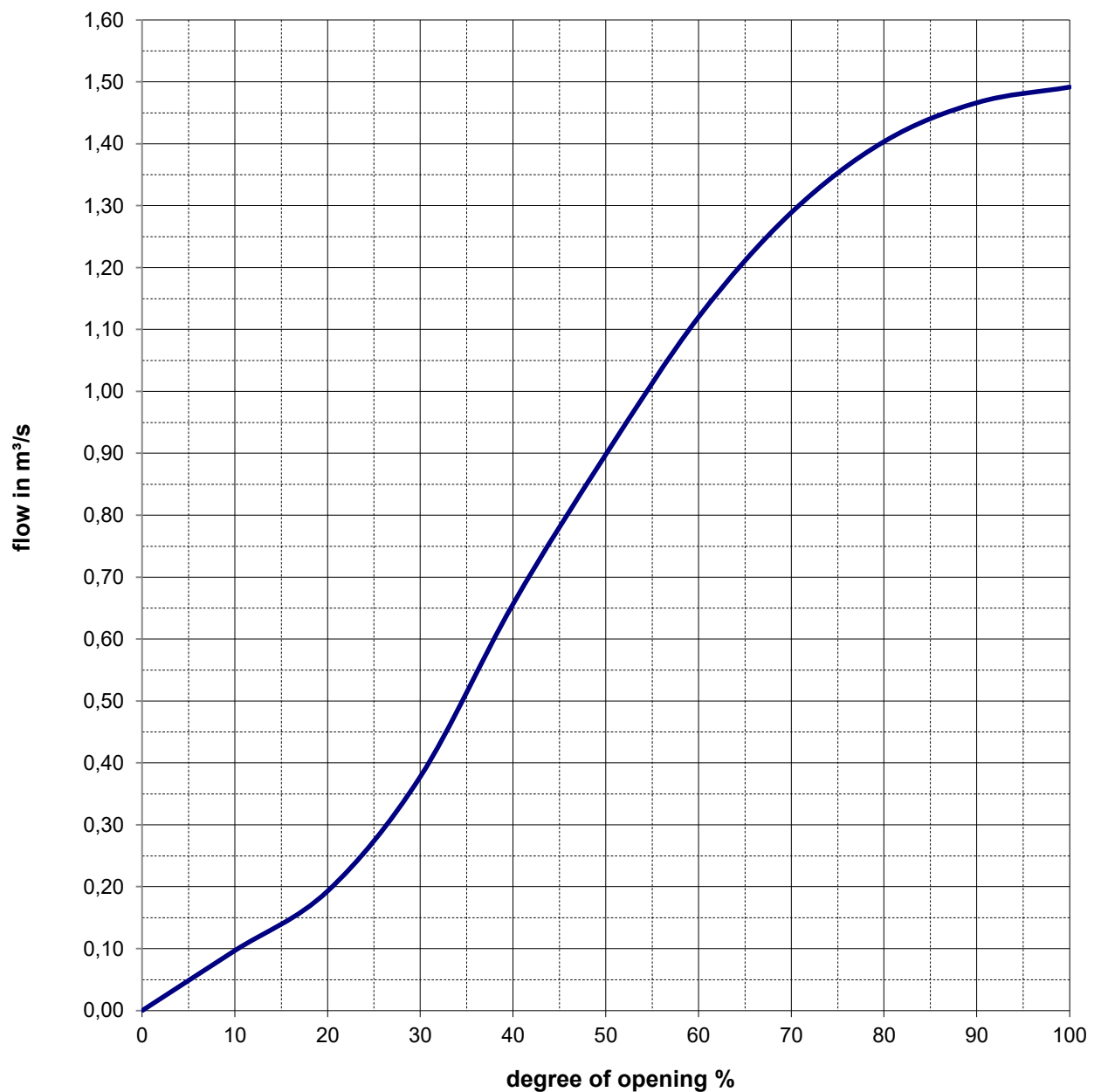
Max. performance VAG RIKO - Qmax

Qmax 1,49 m³/s

Comment:

0

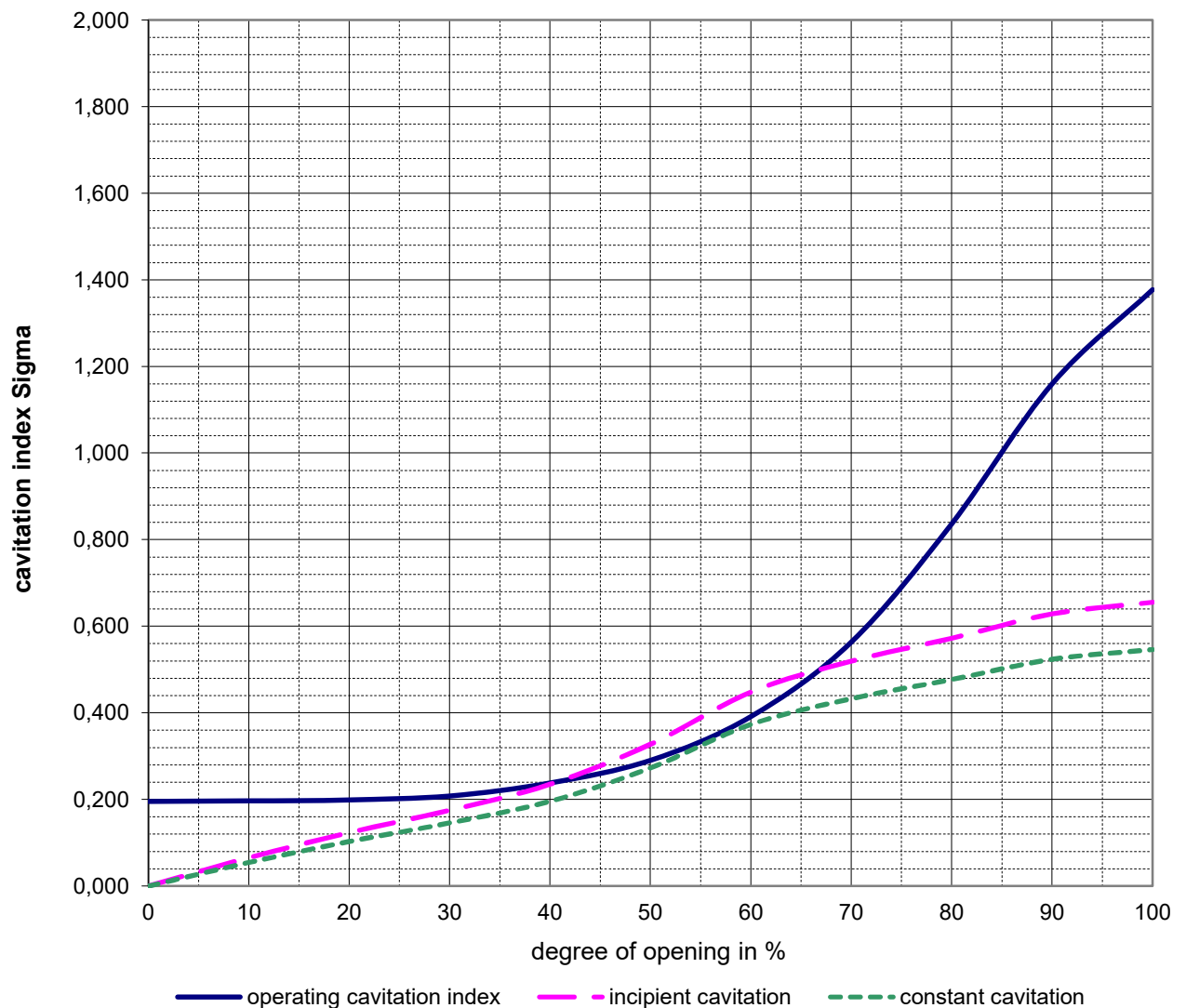
flow versus degree of opening



Projekt:

	0	
VAG - RIKO Plunger Valve	nominal size	600 [mm]
Pressure rate	pressure	40
Anti cavitation cylinder		SZ 30
Static upstream pressure	H up	278 [mWS]
Static downstream pressure	H down	37 [mWS]
Pipe diameter upstream side	size pipe up	800 [mm]
Zeta value pipe upstream side	Zeta pipe up	450 estimated
Pipe diameter downstream side	size pipe down	800 [mm]
Zeta value pipe downstream side	Zeta pipe down	8 estimated
		0
Zeta value VAG plunger valve		25,0
Max. performance VAG RIKO - Qmax	Qmax	1,49 [m³/s]
Comment:		

0

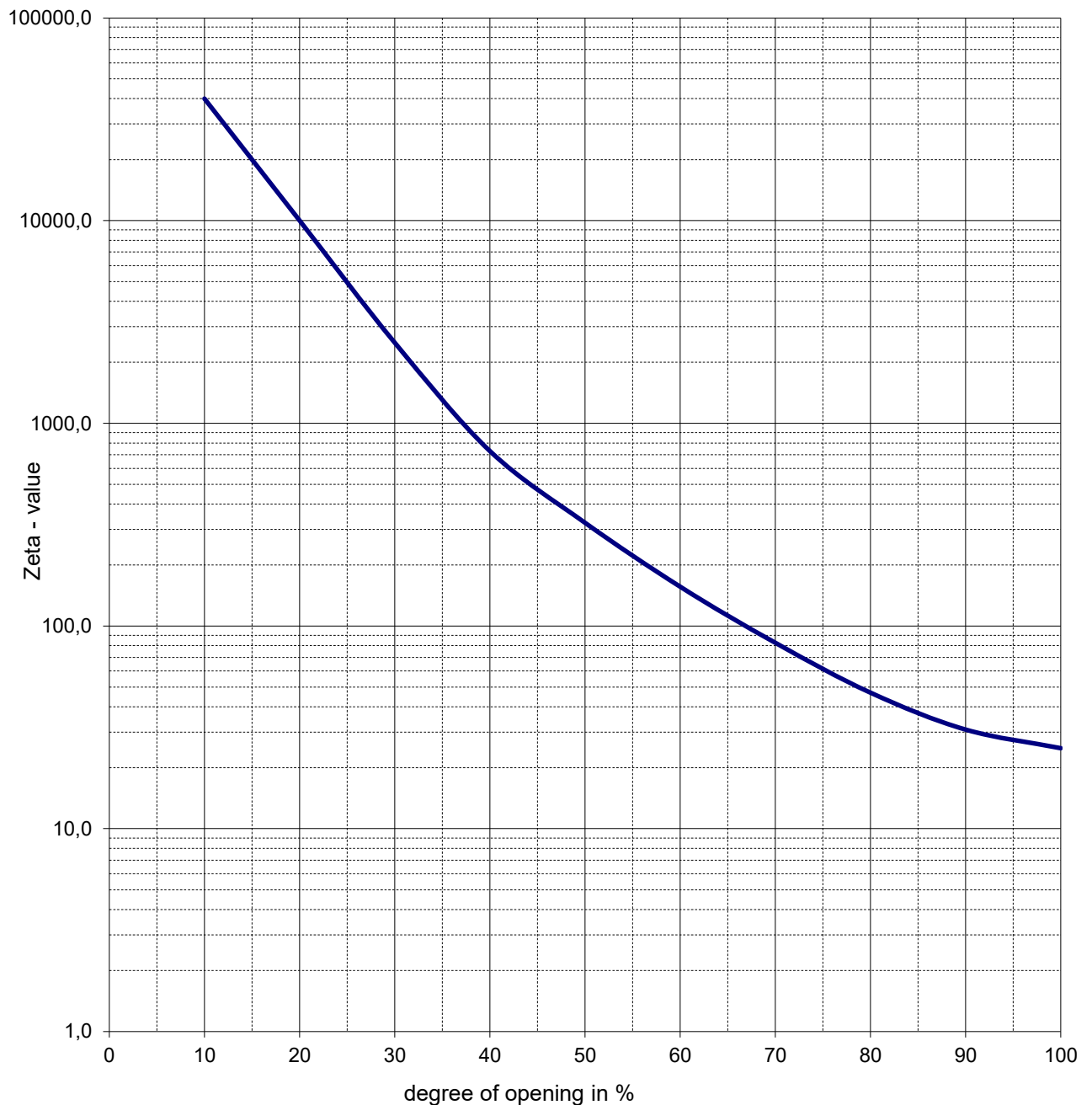
cavitation behavior under operation condition

the cavitation index σ is calculated with the folloing equation

$$\sigma = \frac{H_{down} + H_{atmosphere} - H_{vapor}}{(H_{up} - H_{down}) + \frac{v^2}{2 * g}}$$

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	0	
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Max. performance VAG RIKO - Qmax	Qmax	1,49 [m³/s]

Flow resistance value VAG - plunger valve

Project:

	0	
nominal size VAG - Ringkolbenventil	nominal size	600 [mm]
Pressure rate	pressure 40	bar
Anti cavitation cylinder		SZ 30
Static upstream pressure	H up	278,0 [mWS]
Static downstream pressure	H down	37,0 [mWS]
Pipe diameter upstream side	size pipe up	800 [mm]
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Max. performance VAG RIKO - Qmax	Qmax	1,49 [m³/s]

Comment:

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