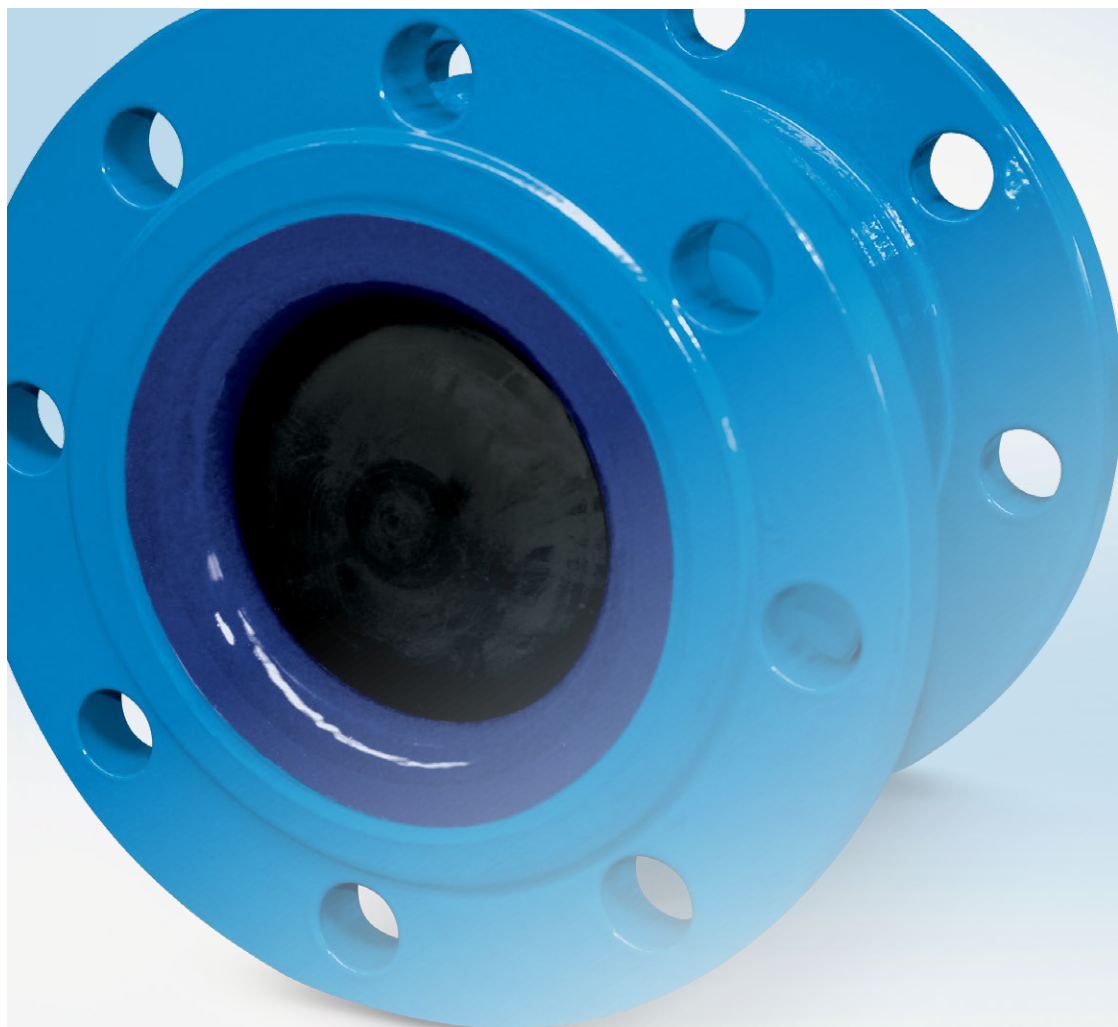


ERHARD is a company of



ERHARD

Data sheet ERHARD non slam nozzle check valve



ERHARD non slam nozzle check valve

The innovative non-return valve for maximum economy

An optimised flow cross-sectional area as well as a valve disc and valve stem gasket designed for minimum flow resistance ensure minimum head losses with the ERHARD non slam nozzle check valve. This enables highly economic operation especially in pumping stations. Valve disc, spring and closing travel have been engineered in such a way [2] that the ERHARD non slam nozzle check valve reacts that quickly even in highest flow delays (e. g. in a vertical line) that only minimal return flow velocities occur, with the flow being gently slowed, thus reducing water hammers to a minimum.

Thanks to its compact form (face-to-face dimension to DIN EN 558, basic line 14), the adjustable spring force as well as its use in any installation position, the ERHARD non slam nozzle check valve can be used for a wide range of applications up to pressure ratings of PN 40 in the natural and drinking water sector as well as in purified wastewater. The body is made from spheroidal cast iron EN-JS1030 (EN-JS1025 for PN 40), the body insert is made from bronze. The resilient-seated piston is rubberised to W270. All internal parts can be easily replaced and the guide bushes are maintenance-free. The ERHARD non slam nozzle check valve is internally enamelled for protection against corrosion and the outside has been coated with EKB in blue. Position indication is optionally available [3].



Operating instructions

BA43E000

with position indication:
BA43E001



The overview

Brief specifications:

- **Valve disc (DN80-300):** zinc-free bronze/elastomer KTW / W270
- **Valve ring (DN350-600):** 1.4404/elastomer KTW/W270
- **Internal body:** zinc-free bronze
- **Guiding stem:** stainless steel
- **Guiding bush:** high-performance polymer
- **Body:** ductile cast iron
- **Spring:** stainless steel
- **Protection outside:** ERHARD EKB fusion bonded epoxy
- **Protection inside:** ERHARD vitreous enamel



Dimensions and weights

Nominal size DN	face-to-face dim. L (EN558- basic line 14) mm	Weight approx.. kg	Flange outside diameter D mm				Locking (Hub) mm
			PN10/16	PN 10	PN 16	PN 25	
DN 80	180	14	–	200	200	200	19
DN 100	190	19	–	220	235	235	20
DN 125	200	27	–	250	270	270	23
DN 150	210	32	–	285	300	300	32
DN 200	230	50	340	340	360	375	35
DN 250	250	70	400	400	425	450	43
DN 300	270	97	455	455	485	515	49
DN 350	290	135	505	520	–	–	39
DN 400	310	165	565	580	–	–	44
DN 500	350	275	670	715	–	–	56
DN 600	390	480	780	840	–	–	71

We need the following data for preparing a quotation:

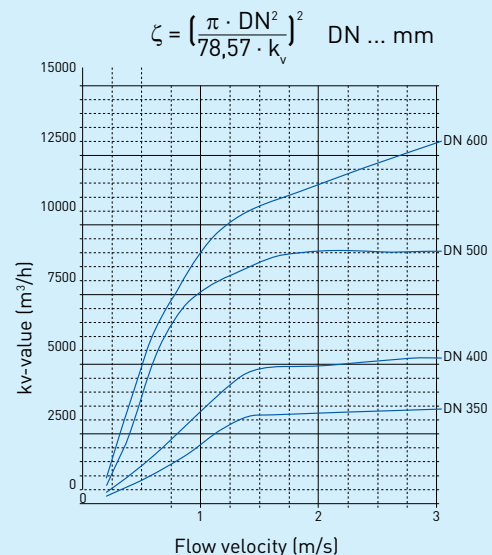
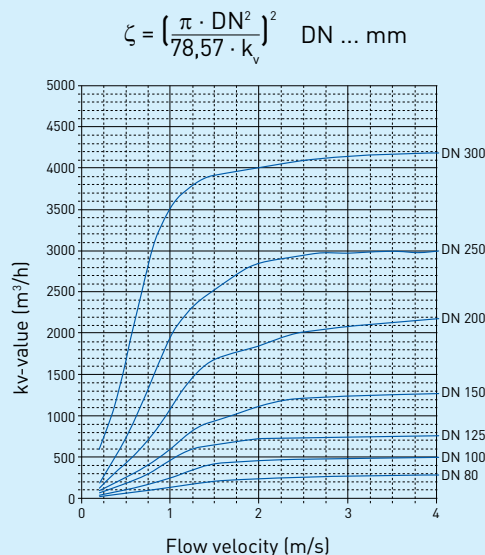
- Nominal size DN
- Temperature range
- Position of installation
- Pressure rating PN
- Flow velocities (min./max.)
- Case of application
- Type of flow medium/analysis
- Characteristic curve of the plant

Please contact us. We will be glad to advise you.

Area of operations

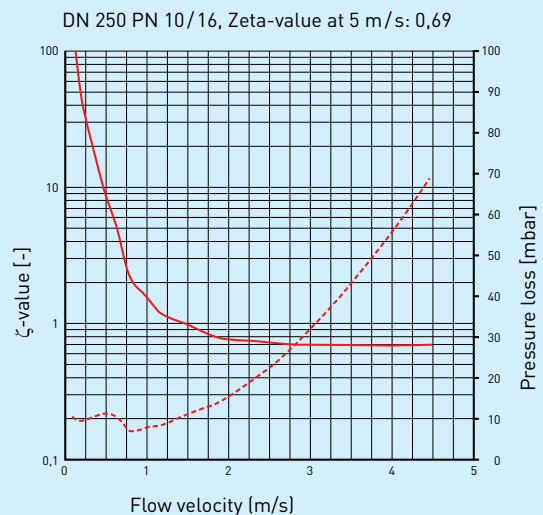
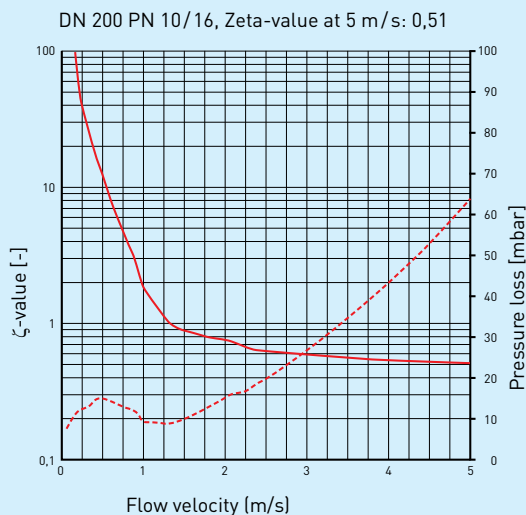
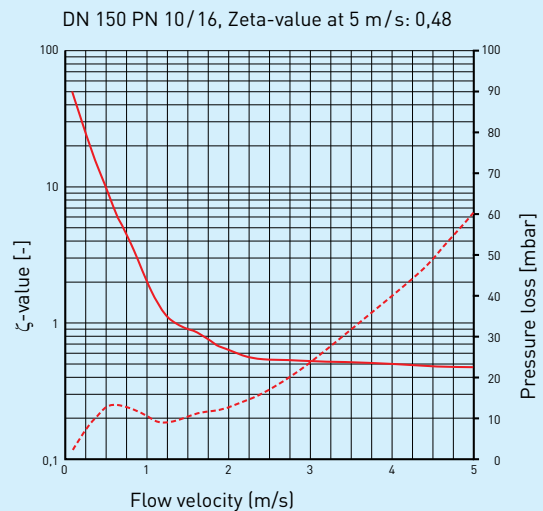
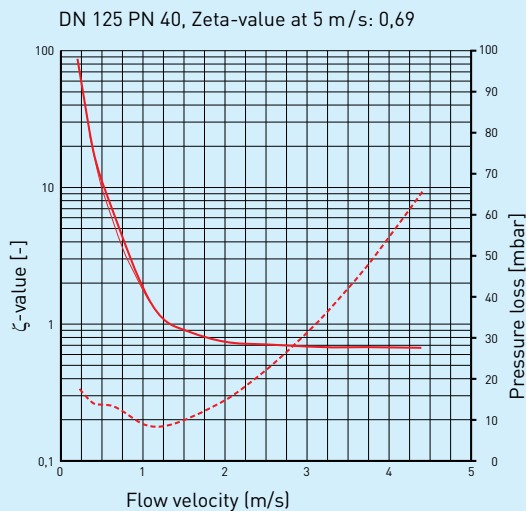
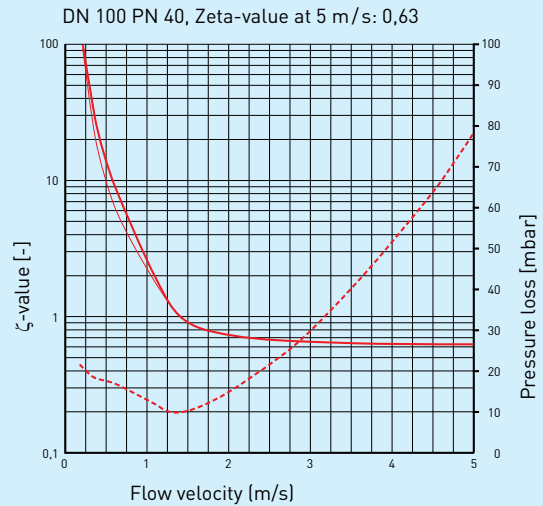
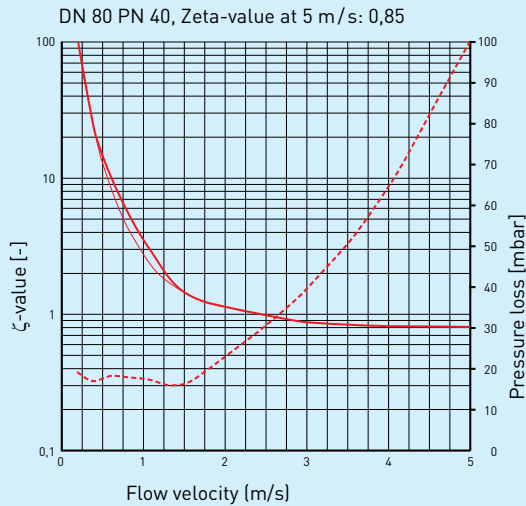
- Minimum back-pressure DN80-300: 4 mWS
- Minimum back-pressure DN350-600: 8 mWS
- Max. working temperature +60 °C
- Full opening at approx. 2 m/s

Hydraulic characteristic curves



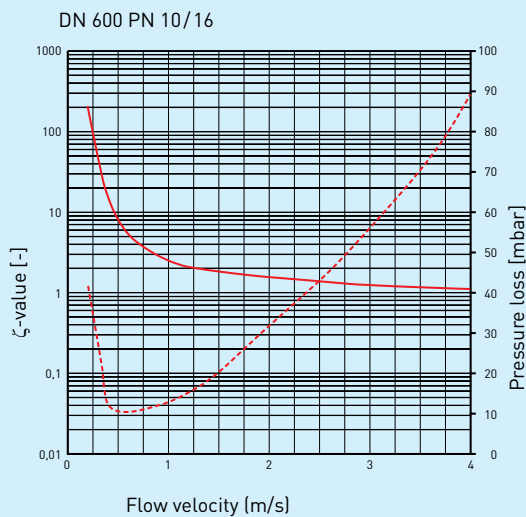
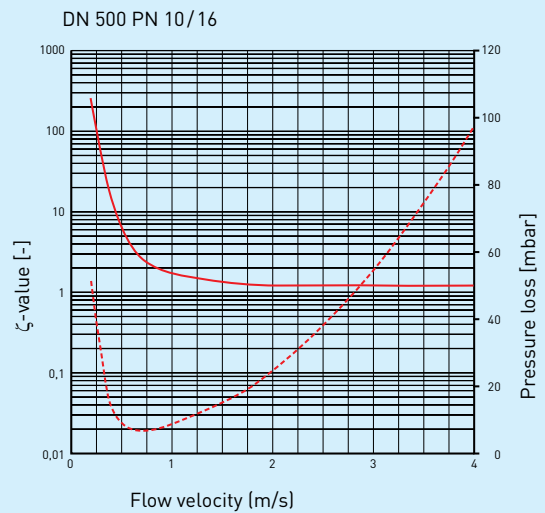
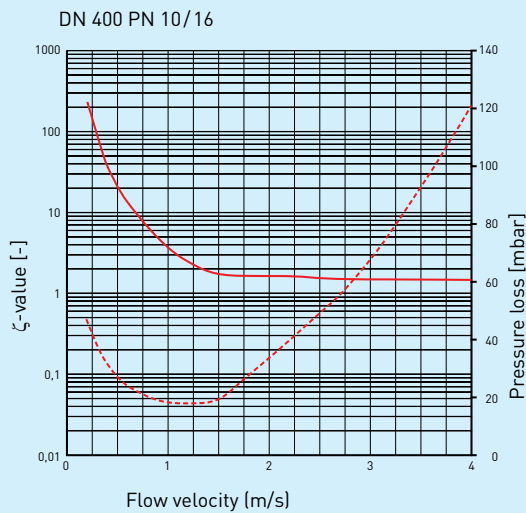
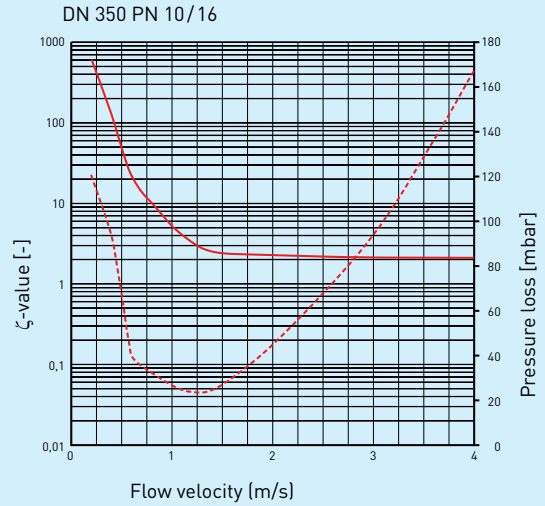
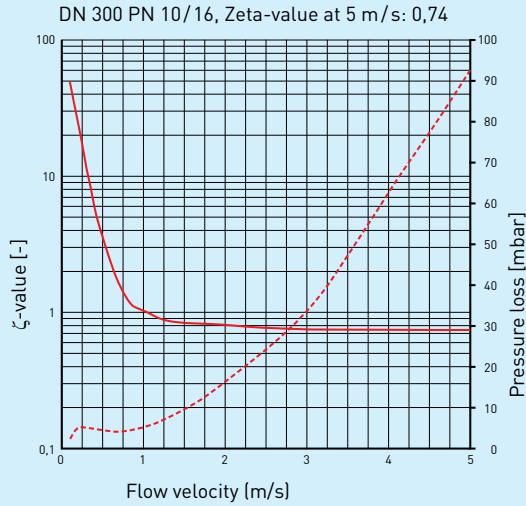
Zeta-Values

Diagrams valid for cavitation free operation.



Zeta-Values

Diagrams valid for cavitation free operation.



— Zeta-value with increasing speed
 Zeta-value with decreasing speed
 --- Pressure loss D_p

Your Choice in Waterflow Control



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ERHARD GmbH & Co. KG

Postfach 1280

D-89502 Heidenheim

Meeboldstrasse 22

D-89522 Heidenheim

Phone: +49 7321 320-0

Fax: +49 7321 320-491

E-Mail: info@erhard.de

Internet: www.erhard.de

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