

# Cyclone separator Z 20N to Z 375



Z 20N – Z 183N

## LAYOUT

The cyclone separator is ideally suited as a bulk water separator when located before a refrigerant dryer or directly after the compressor if no air receiver is used; or if it is placed at a distance; or if the compressed air supply pipe is mounted vertically.

## EFFICIENCY

Apart from the drain, the cyclone separator operates wear free because there are no moving parts which means increased output of the compressed air treatment system.



Z 275 – Z 375

## MINIMAL PRESSURE LOSS

There is a minimal pressure loss across a cyclone separator which means that operating pressure is always optimised – saving energy.

## BEKOMAT

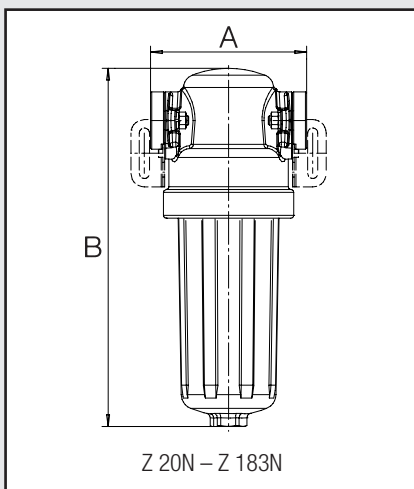
An electronically level controlled, loss-free, Bekomat condensate drain can be fitted as an option assuring increased compressed air treatment safety.



## Operating principle

The cyclone separator works according to the mass inertia principle. It consists of a vortex cartridge and a reservoir. The vortex cartridge induces the compressed air into rotary movement. Solid and liquid components in the air are forced against the inside walls of the separator by their own mass inertia. This causes heavy particles of dirt and water to separate and flow into the collection reservoir.

**Maintenance free filtration:** The BOGE heavy-duty cyclone separators takes liquids, aerosols and solids from the compressed air. Based on the law of inertia they operate with practically no maintenance – ideally suited for compressed air systems without an air receiver when directly installed downstream of the compressor.



BOGE Type	Flow capacity* m <sup>3</sup> /min at			Compressed air connection	Max. operating pressure bar	Dimensions	
	8 bar	10 bar	13 bar			A mm	B mm
Z 20N	2.20	2.80	3.50	G 1/2	16	103	238
Z 35N	3.85	4.90	6.13	G 3/4	16	139	324
Z 53N	5.87	7.47	9.33	G 1	16	139	324
Z 75N	8.25	10.50	13.13	G 1 1/2	16	190	528
Z 125N	13.75	17.50	21.88	G 2	16	190	528
Z 183N	20.17	25.67	32.08	G 2	16	190	528
Z 275	30.25	38.50	48.13	G 2 1/2	16	180	580
Z 375	41.25	52.92	65.63	G 3	16	180	580

\* relates to the compressor's intake condition (+ 20°C, 1 bar)

