

Metrolog Plug Gauges – DS20 Series

Ordering information

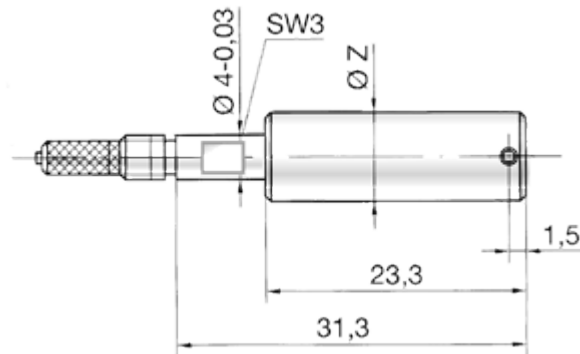
DS20 - "S" Models (General applications)

The S models are ideal for diameter inspection when it is not required positioning nearby the hole extremities. For inspection near the hole entry it is recommended the D models and for bottom blind hole measurements it is recommended the FB models.

DS20-S4 Models

Diameters ($\varnothing Z$) from
>2.980mm up to 9.000mm

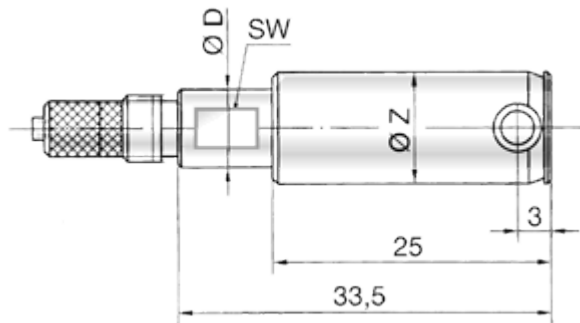
Measuring range of 0.1 mm



DS20-S6 Models

Diameters ($\varnothing Z$) from
>7.000mm up to 20.000mm

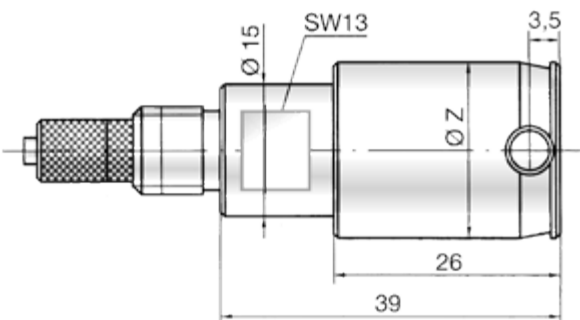
Measuring range of 0.15 mm



DS20-S10 Models

Diameters ($\varnothing Z$) from
>15.000mm up to 44.000mm

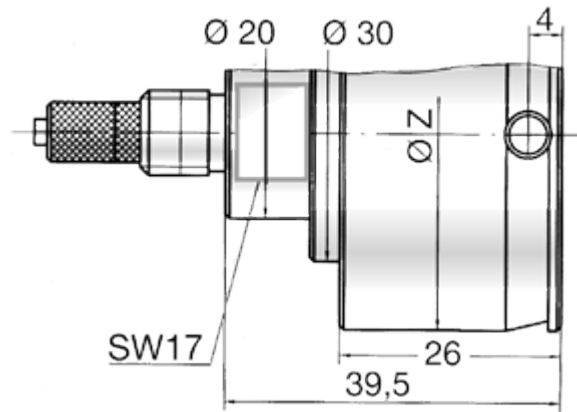
Measuring range of 0.2 mm



DS20-S10 Models

Diameters ($\varnothing Z$) from
>44.000mm up to 70.000mm

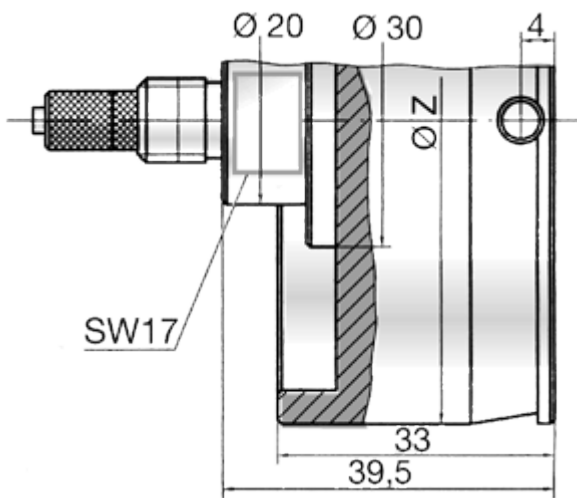
Measuring range of 0.2 mm



DS20-S10 Models

Diameters ($\varnothing Z$) from
>70.000mm up to 270.000mm

Measuring range of 0.2 mm



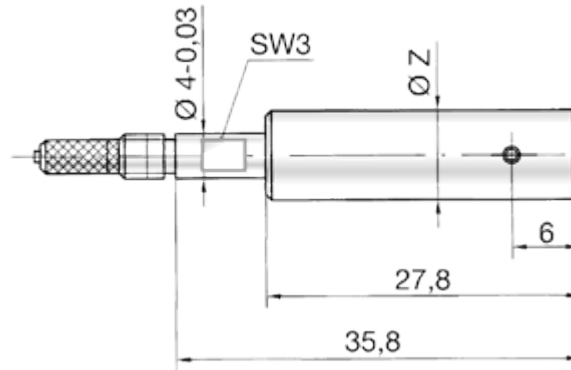
DS20 - "D" Models (for thru holes)

The D models are ideal for inspection of thru holes where the diameter nearby the entry/exit borders should be measured. These models have the contact tips away from the gauge entry face allowing correct alignment during insertion. For blind holes it is recommended the FB models.

DS20-D4 Models

Diameters ($\varnothing Z$) from
>2.980mm up to 9.000mm

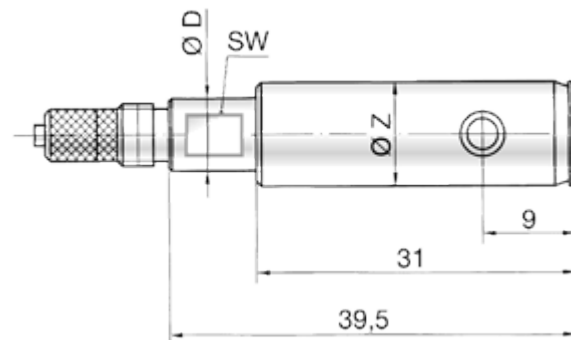
Measuring range of 0.1 mm



DS20-D6 Models

Diameters ($\varnothing Z$) from
>7.000mm up to 20.000mm

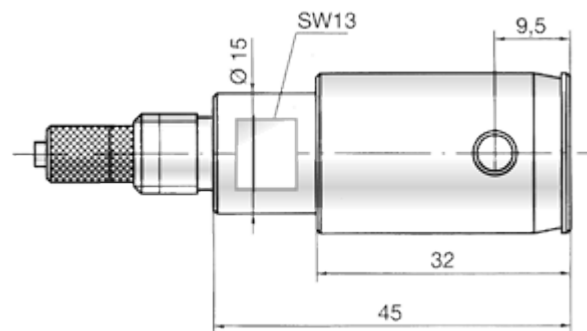
Measuring range of 0.15 mm



DS20-D10 Models

Diameters ($\varnothing Z$) from
>15.000mm up to 44.000mm

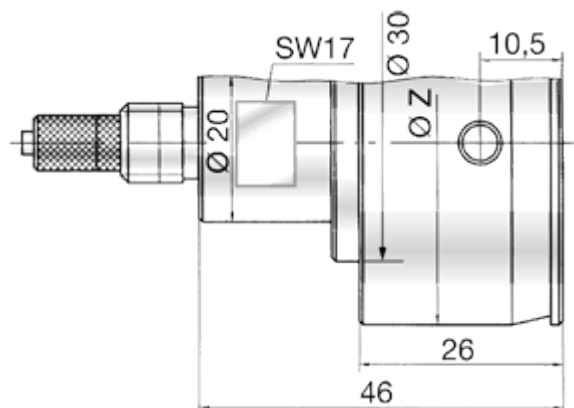
Measuring range of 0.2 mm



DS20-D10 Models

Diameters ($\varnothing Z$) from
>44.000mm up to 70.000mm

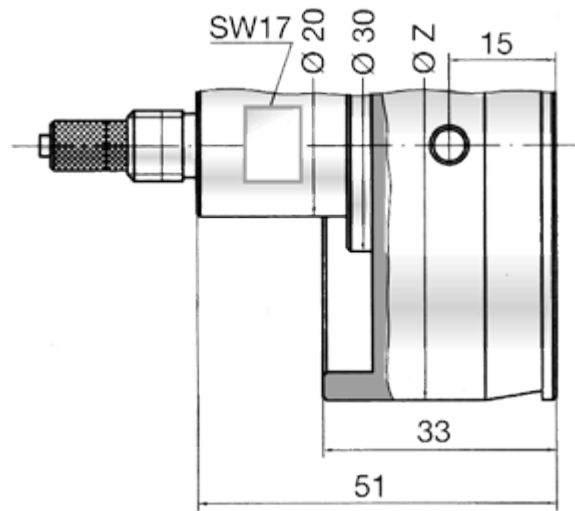
Measuring range of 0.2 mm



DS20-D10 Models

Diameters ($\varnothing Z$) from
>70.000mm up to 270.000mm

Measuring range of 0.2 mm



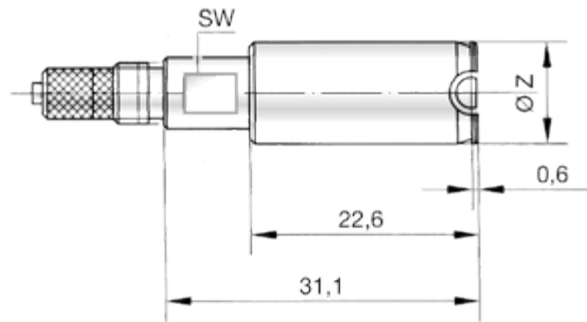
DS20 - "FB" Models (for blind holes)

The FB models are ideal for measuring diameters at blind holes where inspection should be done nearby the hole bottom. These models have tips alignment to the gauge top face. For thru hole it is recommended the D models.

DS20-FB6 Models

Diameters ($\varnothing Z$) from
>7.000mm up to 16.000mm

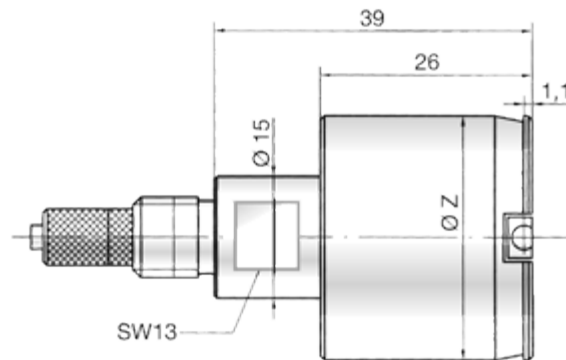
Measuring range of 0.15 mm



DS20-D10 Models

Diameters ($\varnothing Z$) from
>15.000mm up to 44.000mm

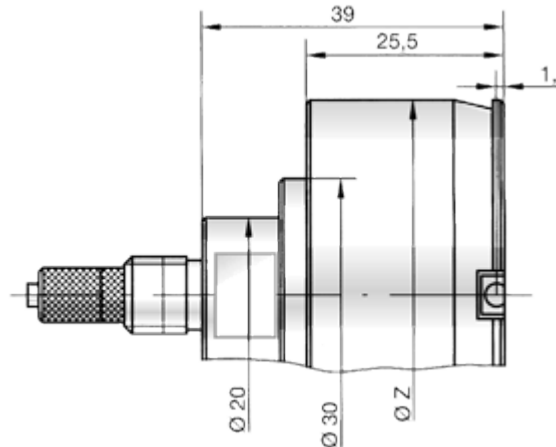
Measuring range of 0.15 mm



DS20-FB10 Models

Diameters ($\varnothing Z$) from
>44.000mm up to 70.000mm

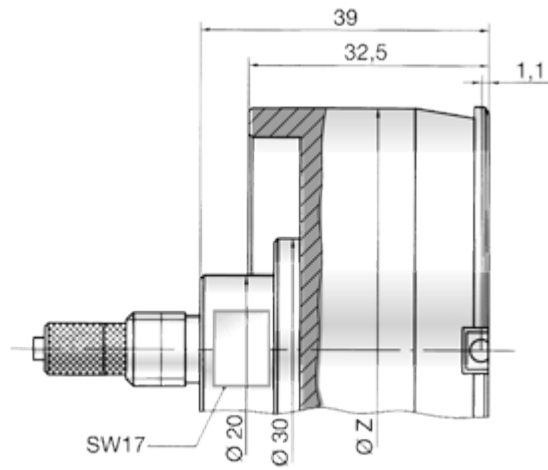
Measuring range of 0.15 mm



DS20-FB10 Models

Diameters ($\varnothing Z$) from
>70.000mm up to 270.000mm

Measuring range of 0.15 mm



Ordering codes

The plug gauge code will vary based on the diameter that will be used for. For example, for inspection of hole with diameter of 28.000mm and tolerance of -0.050 e $+0.030$, the ordering code will be:

DS20-S10-CR27.950 ("S" model, general use)

It is important to check the maximum measuring range possible for the selected model. On the given example the DS20-S10 model has a measuring range of 0.2 mm. It means that will be possible to measure diameters from 27.950mm up to 30,150mm. Optionally would be possible to order the same plug with a centered measuring field. In this case since the considered diameter is 28.000mm it is possible to order a DS20 gauge for minimum diameter of 27.900mm, using the following order code:

DS20-S10-CR27.900 ("S" model, general use)

The effective measuring field in this case will be from 27.900mm to 28.100mm, allowing the inspection of the originally defined tolerances (-0.050 e $+0.030$ mm) plus an additional range on each side.