



Useful accessories: Measuring sections



• Measuring section 1/2"



• Measuring section 1/4"

Measuring sections for precise measurements

Meas. section made of stainless steel 1.4301 incl. ball valve, up to DN 65 (G2 1/2") with external thread, from DN 80 with weld neck flange according to DIN 2633.

External thread	Pipe (ouero x wall thickness)	Total length	Order no.
G1/4"	20.0 x 7.0 mm	180 mm	4000 0006
G1/2"	21.3 x 2.6 mm	500 mm	4000 0015
G3/4"	26.9 x 2.6 mm	600 mm	4000 0020
G1"	33.7 x 3.2 mm	750 mm	4000 0025
G1 1/4"	42.4 x 3.2 mm	900 mm	4000 0032
G1 1/2"	48.3 x 3.2 mm	1000 mm	4000 0040
G2"	60.3 x 3.6 mm	1250 mm	4000 0050
G2 1/2"	76.1 x 3.6 mm	1500 mm	4000 0065
from DN 80 with flange DIN 2633			
DN 80/88.9	88.9 x 2.0 mm	1850 mm	4000 0080
DN 100/114.3	114.3 x 2.0 mm	2104 mm	4000 0100
DN 125/139.7	139.7 x 3.0 mm	2860 mm	4000 0125
DN 150/168,3	168,3 x 3,0 mm	3110 mm	4000 0150

Drilling jig for drilling under pressure

By means of a special drilling device a measuring site with 1/2" ball valve can be easily set up within a few minutes.

As an alternative to the welding of the 1/2" fitting also a spot drilling collar (see page 27) can be used.



• Drilling jig



• High-pressure protection



• Drilling under pressure

Description	Order no.
Drilling jig incl. drill (Ø 13 mm)	0530 1108
High-pressure protection recommended for installation from 10 to 50 bar	0530 1105



Useful accessories: Spot drilling collars

If there is no measuring site with 1/2" ball valve present it can be set up by means of spot drilling collars.

The spot drilling collar is imposed onto the pipe and tightened via thread rods. The enveloping rubber gasket is pressure-tight up to 16 bar. By means of the drilling jig (page 26) it is possible to drill through the 1/2" ball valve into the existing pipe.

Important: Please indicate the exact outer diameter of the existing pipe when placing the order resp. please select the suitable spot drilling collar from the adjoining list.



• Spot drilling collar



Description	Order no.
Spot drilling collar for pipe diameter 050 - 057 mm, incl. 1/2" ball valve	0500 0451
Spot drilling collar for pipe diameter 056 - 063 mm, incl. 1/2" ball valve	0500 0452
Spot drilling collar for pipe diameter 058 - 065 mm, incl. 1/2" ball valve	0500 0453
Spot drilling collar for pipe diameter 067 - 074 mm, incl. 1/2" ball valve	0500 0454
Spot drilling collar for pipe diameter 073 - 080 mm, incl. 1/2" ball valve	0500 0455
Spot drilling collar for pipe diameter 076 - 083 mm, incl. 1/2" ball valve	0500 0456
Spot drilling collar for pipe diameter 082 - 089 mm, incl. 1/2" ball valve	0500 0457
Spot drilling collar for pipe diameter 087 - 094 mm, incl. 1/2" ball valve	0500 0458
Spot drilling collar for pipe diameter 089 - 098 mm, incl. 1/2" ball valve	0500 0459
Spot drilling collar for pipe diameter 095 - 102 mm, incl. 1/2" ball valve	0500 0460
Spot drilling collar for pipe diameter 102 - 112 mm, incl. 1/2" ball valve	0500 0461
Spot drilling collar for pipe diameter 108 - 118 mm, incl. 1/2" ball valve	0500 0462
Spot drilling collar for pipe diameter 118 - 128 mm, incl. 1/2" ball valve	0500 0463
Spot drilling collar for pipe diameter 125 - 135 mm, incl. 1/2" ball valve	0500 0464
Spot drilling collar for pipe diameter 132 - 142 mm, incl. 1/2" ball valve	0500 0465
Spot drilling collar for pipe diameter 138 - 148 mm, incl. 1/2" ball valve	0500 0466
Spot drilling collar for pipe diameter 145 - 155 mm, incl. 1/2" ball valve	0500 0467
Spot drilling collar for pipe diameter 151 - 161 mm, incl. 1/2" ball valve	0500 0468
Spot drilling collar for pipe diameter 159 - 170 mm, incl. 1/2" ball valve	0500 0469
Spot drilling collar for pipe diameter 167 - 177 mm, incl. 1/2" ball valve	0500 0470
Spot drilling collar for pipe diameter 176 - 186 mm, incl. 1/2" ball valve	0500 0471
Spot drilling collar for pipe diameter 193 - 203 mm, incl. 1/2" ball valve	0500 0472
Spot drilling collar for pipe diameter 200 - 210 mm, incl. 1/2" ball valve	0500 0473
Spot drilling collar for pipe diameter 209 - 219 mm, incl. 1/2" ball valve	0500 0474

Thickness meter CS 0495



The entry of the correct inner diameter is essential for an accurate consumption measurement.

The thickness meter CS 0495 enables a quick, easy and accurate measurement of the wall thickness of pipes. So the determination of the inner diameter becomes very easy.

Description	Order no.
Thickness meter CS 0495 including case and calibration block	0560 0495

Technical data 0495

Meas. range:	1.5 ... 200 mm, 0.06 ... 8 Inch
Meas. principle:	ultrasonic
Measured materials:	steel, cast iron, aluminium, copper, brass, zinc, quartz glass, polyethylene, PVC, grey iron, nodular cast iron
Calibration block:	included in shipment
Resolution:	0.1 mm
Accuracy:	± [0.5 % n + 0.1]
Power supply:	4 x 1.5 V AA (UM-3) batteries
Dimensions:	160 x 68 x 32 mm
Weight:	208 g (battery not included)