

SCITEQ End closure series



We help you perform even better



Scope

SCITEQ end closures are produced for pipes to be used for internal hydrostatic pressure testing. The end closures seal the sample in order to generate internal pressure in the sample. SCITEQ offers different designs of end closures – with and without tie-bars for numerous materials and pipe diameters, measurements in mm or inch.

The end closures comply with ISO 9080, ISO 1167, ASTM D 1598, ASTM D 1599 and equivalent



Sizes

End closures with tie-bar (model 1530) are produced for pipes in PE, PVC and PP. End closures without tie-bar (model 1520) are produced for pipes in PE, PVC and PP. The patented Air frame design (model 1525) for large pipe samples is suitable for PE, PEX, PVC, PP, ABS. Sizes from OD 6mm to 280mm can be pressurized up to 100 bar. Sizes from 315mm up to 710mm can be pressurized up to 60 bar and from 1400mm up to 2000 up to 13 bar. Please refer to table in this brochures.



Construction

The SCITEQ end closures are made of AISI 304 certified stainless steel and is also available as acid resistant AISI 316 on request.

The end closures are constructed with easy mounting in mind. Only two bolts are needed to securely fix the grid system (side clamps) on the pipe sample.

Highlights

- ✓ *AISI 304 stainless steel*
- ✓ *No ghost leakage*
- ✓ *For pipe sizes DN6-2500*
- ✓ *Product lifetime over 30 years*
- ✓ *Easy handling*
- ✓ *Unique patented design*

Standards

The end closure series enables you to test according to standards such as

ISO 1167
ISO 9080
ASTM D 1598
ASTM D 1599

You may very well be able to test according to other standards beside the ones listed above. Please refer to technical specifications in the back of this brochure or contact SCITEQ A/S for more information.



Features SCITEQ End closure series

SCITEQ



High quality and performance

With a proven track record showing product lifetime of more than 30 years, the Sciteq End Closure series is a proven, durable and cost-effective solution, used by major corporations world-wide.

No ghost leakage

The unique, patented design of the SCITEQ End Closure Series tightens 100% to pipe samples, ensuring that there is no ghost leakage when pressure testing, thus minimizing risks of failed pressure tests.

Connections

The SCITEQ End Closure series are easily operated, with the quick couplings allowing for hassle-free hose connections.

While water is filled in the End Closure, excess air is simultaneously relieved through the bleeding valves located on the top cap.

Patented light weight design

The SCITEQ Air Frame end closures are used for relatively low pressures up to max. 60 bar in combination with temperatures between 20 to 95 degrees.

The Air frame design and low weight eases the handling of large pipe samples.

Technical Specifications SCITEQ End closure series



	1520	1525_60	1525_30	1525_13/10/8/6	1530 & 1550_100	1530 & 1550_70	1530 & 1550_45	1530 & 1550_30
Standard pipe dimension range [mm]	DN12-DN280*	DN315-DN710*	DN315-DN1200*	DN1200/1400/1600/1800/2000*	DN12-DN180*	DN200-DN500*	DN560-DN800*	DN900-DN1200*
Max. allowable pressure [Bar]	100 (1450 psi)	60 (870 psi)	30 (435 psi)	13/10/8/6/6 (185/145/116/87/87 psi)	100 (1450 psi)	70 (1015 psi)	45 (653 psi)	30 (435 psi)
Complied standards	ISO1167, ASTM D1598, ASTM 1599 and equivalent							
Testing method	A	A	A	A	B	B	B	B
Accessible testing material	PE, PP, PVC, PEX & ABS							
Material of end closure	AISI 304***							
O-ring material	EPDM (Hardness 70)							
Operation & storage temperature [°C]	-10 – 125							
Handling	Lifting eye(s)							
Standard pressure connection	Tema 2520 male with 1/4" male thread**							
Bleed valve	SCITEQ design with 1/8" male thread							
Free length (lo)	N/A	N/A	N/A	N/A	Minimum (+1-15 mm) -according to complied standard****			
Dimensions and weight	Please refer to separate dimension sheet							

*All dimensions within the range can be manufactured, also according to imperial units –please contact SCITEQ for further info

**Other material available on request e.g. AISI 316.

***Other connections available on request, e.g Tema 1100, Walthers SP-006 etc.

**** Free length can be customized according to specific needs.

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	1520	1525_60	1525_30	1525_10	1530_100	1530_70	1530_45	1530_30
Recommended pipe sample preparation	Chamfer angle 15° (Removed wall thickness Max 15 mm)							
Qty. of o-rings pr. end cap	1	1	1	1	1*	1*	1*	1*

*All endlosures for method "B" testing can be delivered with 2 o-rings and greater distance from bottom of the end cap to center of the o-ring. This type is called "1550" and is recommended when sample is expanding much during test.





End closure mounting

SCITEQ End closure mounting and demounting machine improves pipe testing procedures significantly. The handling of large pipe samples end closures is made convenient and efficient, saving time and man power.



SCITEQ Laboratory saw

When preparing pipes for testing or production, the SCITEQ Laboratory Saw is the most accurate and safe solution on the market. Save time with the predefined recipes, auto conveyer and automatic cutting & chamfering in one go.



X-ACT Pressure Test Equipment

The SCITEQ X-ACT Pressure Test Equipment is the obvious choice to pressure test your sample. The modular solution is suitable for testing pipe and fittings pressurized within a range of 1-400 bar at 2-100 l/min.



SCITEQ Thermo tanks

SCITEQ Thermo Tanks offer accurate conditioning of any type of sample at temperatures from 0 to 95° C. The cost efficient high-quality solution can be used for testing according to i.e. ISO 1167, ASTM D1598 and ASTM D1599



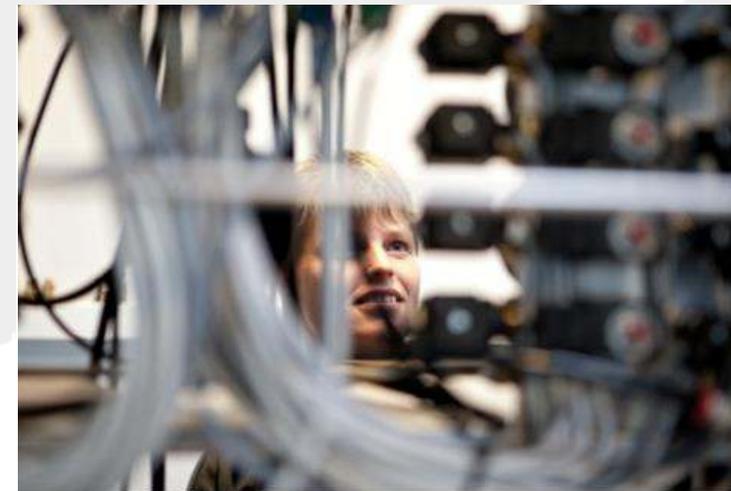
Installation & Training

SCITEQ offers onsite installation of new SCITEQ equipment and onsite or remote training of the operating personnel that are going to use the equipment.



Service agreements

SCITEQ offers service agreements for all SCITEQ equipment, meaning specialized service engineers will visit the customer annually for service and calibration of equipment.



Support online & on-site

SCITEQ offers online and on-site support on all SCITEQ products, for fast and effective problem solving, training, setup, etc.