

Лабораторные винтовые соединения D590, D597, D600, D642

Технические характеристики

По вопросам продаж и поддержки обращайтесь:

Алматы (727)345-47-04
Ангарск (3955)60-70-56
Архангельск (8182)63-90-72
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Благовещенск (4162)22-76-07
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Владикавказ (8672)28-90-48
Владимир (4922)49-43-18
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89

Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Коломна (4966)23-41-49
Кострома (4942)77-07-48
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Курган (3522)50-90-47
Липецк (4742)52-20-81

Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81
Ноябрьск (3496)41-32-12
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Петрозаводск (8142)55-98-37
Псков (8112)59-10-37
Пермь (342)205-81-47

Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Саранск (8342)22-96-24
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сургут (3462)77-98-35
Сыктывкар (8212)25-95-17
Тамбов (4752)50-40-97
Тверь (4822)63-31-35

Тольятти (8482)63-91-07
Томск (3822)98-41-53
Тула (4872)33-79-87
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Улан-Удэ (3012)59-97-51
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Чебоксары (8352)28-53-07
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Чита (3022)38-34-83
Якутск (4112)23-90-97
Ярославль (4852)69-52-93

Россия +7(495)268-04-70

Казахстан +(727)345-47-04

Беларусь +(375)257-127-884

Узбекистан +998(71)205-18-59

Киргизия +996(312)96-26-47

эл.почта: bao@nt-rt.ru || сайт: <https://bola.nt-rt.ru>

BOLA Laboratory Screw Joints

In practice, there are many applications where it is necessary to connect hard-walled tubing (e.g. made of PTFE, PFA, FEP) or tubes (e.g. made of glass, metal, plastic) with devices with GL thread (glass thread). BOLA Laboratory Screw Joints are ideal for making these connections.

Components

Each laboratory screw joint consists of a screw cap with a female GL thread and bore as well as three inner parts: v-ring, tapered ring and sealing ring

Assembly and function

Assembly can easily be made by hand:

First, the screw cap and the inner parts are pushed on the tubing in the right order. After that, the tubing has to be put into the counterpiece and the screw cap has to be tightened. The screw cap presses the sealing ring and tapered ring tightly on the counterpiece. At the same time, the v-ring is compressed and the tubing is fixed tightly. The connection is absolutely tight and even suitable for vacuum. The laboratory screw joints for GL 14, GL 18 and GL 25 resist pressures of max. 10 bar at room temperature.

Choice

It is easy to choose the suitable laboratory screw joint:

First of all, the outer diameter of the tubing or tube and the size of the GL thread to which the laboratory screw joint shall be connected have to be determined. The size of the GL thread corresponds to the outer diameter of the thread, i.e. a GL 25 thread has an outer diameter of 25 mm. Further assistance for the determination of threads can be found in our Technical Information (page 366).

Also the application is decisive: Will there be temperatures of more than +150°C? If so, the BOLA HT Laboratory Screw Joints made of PPS black (page 77), which also provide a good chemical resistance, are the right choice. Or is it more important to have a very high chemical resistance? Then you have to choose BOLA Laboratory Screw Joints (page 90) made of ETFE (red). These can be used up to temperatures of +150°C.

For big flexibility, all screw caps and inner parts are available separately.

You will find suitable tubing on page 189.

BOLA Laboratory Screw Joints

Material: PTFE, ETFE Temperature resistance: from -50 °C to +150 °C Chemical resistance: +++ universal Pressure: 10 bar Vacuum: suitable

FDA conform

Product description:

Red screw cap made of glass-fibre reinforced ETFE, inner parts consisting of a v-ring (ETFE), a tapered ring and a sealing ring (both PTFE) as well as an o-ring (FKM) for tubing diameters under 3 mm (not exposed to the medium). Very good chemical resistance, suitable for temperatures from -50°C to +150°C.

For tubing O.D. mm	Cat. No.: Thread GL 14	Cat. No.: Thread GL 18	Cat. No.: Thread GL 25
0,8	D 593-02		
1,0	D 593-04		
1,6	D 593-06	D 593-26	
2,0	D 593-10	D 593-30	
2,4	D 593-12		
3,0	D 590-02	D 590-10	D 590-22
3,2	D 590-08	D 590-20	D 590-24
4,0	D 590-04	D 590-12	D 590-26
6,0	D 590-06	D 590-14	D 590-28
6,35	D 590-62		
8,0		D 590-16	D 590-30
10,0		D 590-18	D 590-32
12,0			D 590-34
14,0			D 590-36

Applications:

Connecting equipment and fittings with GL threads with hard-walled tubing or tubes made of glass, plastic or metal. Fixing probes, thermometers, dip tubes or cables in reaction vessels. Ideal for use in aggressive ambience (e.g. with aggressive vapours or evaporation)





BOLA Replacement Inner Parts

Material: PTFE, ETFE Temperature resistance: from -50 °C to +150 °C Chemical resistance: +++ universal Pressure: 10 bar Vacuum: suitable

FDA conform

Product description:

Consisting of a v-ring (ETFE), a tapered ring and a sealing ring (both PTFE) as well as an o-ring for tubing diameters under 3 mm (not exposed to the medium). Very good chemical resistance, suitable for temperatures from -50°C to + 150°C.



For tubing O.D. mm	Cat. No.: Thread GL 14	Cat. No.: Thread GL 18	Cat. No.: Thread GL 25
0,8	D 598-02		
1,0	D 598-04		
1,6	D 598-06	D 598-26	
2,0	D 598-10	D 598-30	
2,4	D 598-12		
3,0	D 597-02	D 597-10	D 597-22
3,2	D 597-08	D 597-20	D 597-24
4,0	D 597-04	D 597-12	D 597-26
6,0	D 597-06	D 597-14	D 597-28
6,35	D 597-62		
8,0		D 597-16	D 597-30
10,0		D 597-18	D 597-32
12,0			D 597-34
14,0			D 597-36



#SUITABLE PAGE 189
Tubing for all screw joints.

BOLA Practical-TIP

For an easier assembly of laboratory screw joints:

Either sharpen the tubing with a simple sharpener or cut it diagonally with a knife.

see page 361

BOLA Replacement Screw Cone Caps

Material: ETFE Temperature resistance: from -50 °C to +150 °C Chemical resistance: +++ universell

Product description:

Red screw cap made of glass-fibre reinforced ETFE, with handy knurl and hexagon. Very good chemical resistance, suitable for temperatures from -50°C to + 150°C.

Thread GL	Tubing/tube O.D. mm	Cat. No.:
14	up to 6,35	D 600-04
18	up to 10,0	D 600-08
25	up to 10,0	D 600-12
25	bigger than 10,1	D 600-16



BOLA Laboratory Screw Joints HT (High Temp)

Material: PTFE, PPS Temperature resistance: from -50 °C to +150 °C Chemical resistance: +++ universal Pressure: 10 bar Vacuum: suitable

FDA conform

Product description:

Black screw cap made of PPS, inner parts consisting of a v-ring (PPS), a tapered ring and a sealing ring (both PTFE) as well as an o-ring for tubing diameters under 3 mm (not exposed to the medium). Good chemical resistance, suitable for temperatures from -20°C to + 250°C.

For tubing O.D. mm	Cat. No.: Thread GL 14	Cat. No.: Thread GL 18	Cat. No.: Thread GL 25	Cat. No.: Thread GL 32	Cat. No.: Thread GL 45
0,8	D 628-10				
1,0	D 628-18				
1,6	D 628-26	D 629-18	D 630-18		
2,0	D 628-34	D 629-22	D 630-22		
3,0	D 628-50	D 629-34	D 630-34		
3,2	D 628-58	D 629-42	D 630-42		D 632-18
4,0	D 628-66	D 629-46	D 630-46		
5,0	D 628-70				
6,0	D 628-74	D 629-54	D 630-54	D 631-38	D 632-26
6,35	D 628-78	D 629-56	D 630-58	D 631-42	
8,0	D 628-82	D 629-62	D 630-62	D 631-46	D 632-32
9,52		D 629-68	D 630-68	D 631-52	
10,0		D 629-74	D 630-74	D 631-56	D 632-40
12,0			D 630-80	D 631-60	D 632-44
12,7			D 630-84	D 631-66	
14,0			D 630-90	D 631-72	D 632-48
16,0				D 631-78	D 632-54
18,0				D 631-82	D 632-56
19,5				D 631-84	
20,0				D 631-88	D 632-60
22,0					D 632-68
25,4					D 632-74
26,0					D 632-76
30,0					D 632-84
32,0					D 632-90

Applications:

Connecting equipment and fittings with GL threads with hard-walled tubing or tubes made of glass, plastic or metal. Fixing probes, thermometers, dip tubes or cables in reaction vessels.



BOLA INNOVATION



Laboratory Screw Joints

Many common screw joints can only be used for one specific tubing diameter. BOLA Laboratory Screw Joints with exchangeable inner parts can be assembled with many different tubing diameters.

see page 90

BOLA **Replacement Inner Parts HT (High Temp)**

Material: **PTFE, PPS** Temperature resistance: **from -50 °C to +150 °C** Chemical resistance: **+++ universal** Pressure: **10 bar** Vacuum: **suitable**

FDA conform

Product description:

Consisting of a v-ring (PPS), a tapered ring and a sealing ring (both PTFE) as well as an o-ring for tubing diameters under 3 mm (not exposed to the medium). Good chemical resistance, suitable for temperatures from -20°C to + 250°C.



For tubing O.D. mm	Cat. No.: Thread GL 14	Cat. No.: Thread GL 18	Cat. No.: Thread GL 25	Cat. No.: Thread GL 32	Cat. No.: Thread GL 45
0,8	D 638-10				
1,0	D 638-18				
1,6	D 638-26	D 639-18	D 640-18		
2,0	D 638-34	D 639-22	D 640-22		
3,0	D 638-50	D 639-34	D 640-34		
3,2	D 638-58	D 639-42	D 640-42		D 642-18
4,0	D 638-66	D 639-46	D 640-46		
5,0	D 638-70				
6,0	D 638-74	D 639-54	D 640-54	D 641-38	D 642-26
6,35	D 638-78	D 639-56	D 640-58	D 641-42	
8,0	D 638-82	D 639-62	D 640-62	D 641-46	D 642-32
9,52		D 639-68	D 640-68	D 641-52	
10,0		D 639-74	D 640-74	D 641-56	D 642-40
12,0			D 640-80	D 641-60	D 642-44
12,7			D 640-84	D 641-66	
14,0			D 640-90	D 641-72	D 642-48
16,0				D 641-78	D 642-54
18,0				D 641-82	D 642-56
19,5				D 641-84	
20,0				D 641-88	D 642-60
22,0					D 642-68
25,4					D 642-74
26,0					D 642-76
30,0					D 642-84
32,0					D 642-90



BOLA Fork Wrenches

Material: **PA** Temperature resistance: **-10 °C to +100 °C** Chemical resistance: **+ good**

Product description:

Made of glass-fibre reinforced polyamide, black, low weight

For thread GL	Wrench size mm	Cat. No.:
14/18/ 25	17/ 22/ 27	D 647-08
32/ 45	32/ 42	D 647-24

Applications:

For tightening or opening BOLA Laboratory Screw Joints also at high working temperatures. Low weight reduces risk of injury or damage.



BOLA Replacement Screw Cone Caps HT (High Temp)

Material: **PPS** Temperature resistance: **-20 °C to +250 °C** Chemical resistance: **+ good**

Product description:

Black screw cap made of glass-fibre reinforced PPS, with handy knurl and hexagon. Good chemical resistance, suitable for temperatures from -20°C to + 250°C.

Thread GL	From tubing O.D. to tubing O.D mm	Cat. No.:
14	0,8 - 6,0	D 634-10
14	6,1 - 8,0	D 634-14
18	8,0 - 10,0	D 634-20
25	8,0 - 10,0	D 634-30
25	10,0 - 14,0	D 634-34
32	0,8 - 10,0	D 634-40
32	10,0 - 16,0	D 634-44
32	18,0 - 20,0	D 634-48
45	1,6 - 10,0	D 634-50
45	11,0 - 16,0	D 634-54
45	17,0 - 22,0	D 634-58
45	23,0 - 32,0	D 634-62



BOLA **Plugs for Screw Caps**Material:
PTFETemperature resistance:
from -50 °C to +150 °CChemical resistance:
+++ universal**FDA** conform

Product description:

Plugs completely made of PTFE, suitable for replacement caps made of ETFE and PPS. The plug is inserted into the cap and snaps in as soon as the cap is tightened. It can easily be removed for cleaning.

Thread GL	Bore dia. mm	Suitable for cap Cat. No.: (page 83)	Suitable for cap Cat. No.: (page 93)	Cat. No.:
14	6	D 600-04	D 634-10	D 549-14
18	10	D 600-08	D 634-20	D 549-18
25	10	D 600-12	D 634-30	D 549-25
32	16		D 634-44	D 549-32
45	22		D 634-58	D 549-45

Applications:

Safe plugging of unused ports of glass devices or GL connecting parts.



По вопросам продаж и поддержки обращайтесь:

Алматы (727)345-47-04
Ангарск (3955)60-70-56
Архангельск (8182)63-90-72
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Благовещенск (4162)22-76-07
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Владикавказ (8672)28-90-48
Владимир (4922)49-43-18
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89

Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Коломна (4966)23-41-49
Кострома (4942)77-07-48
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Курган (3522)50-90-47
Липецк (4742)52-20-81

Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81
Ноябрьск (3496)41-32-12
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Петрозаводск (8142)55-98-37
Псков (8112)59-10-37
Пермь (342)205-81-47

Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Саранск (8342)22-96-24
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сургут (3462)77-98-35
Сыктывкар (8212)25-95-17
Тамбов (4752)50-40-97
Тверь (4822)63-31-35

Тольятти (8482)63-91-07
Томск (3822)98-41-53
Тула (4872)33-79-87
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Улан-Удэ (3012)59-97-51
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Чебоксары (8352)28-53-07
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Чита (3022)38-34-83
Якутск (4112)23-90-97
Ярославль (4852)69-52-93

Россия +7(495)268-04-70

Казахстан +(727)345-47-04

Беларусь +(375)257-127-884

Узбекистан +998(71)205-18-59

Киргизия +996(312)96-26-47

эл.почта: bao@nt-rt.ru || сайт: <https://bola.nt-rt.ru>