

Preferred distributor:

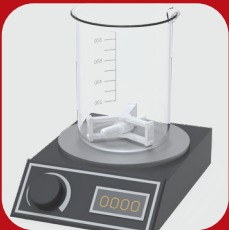


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Professional High- Performance Fluoroplastic Labware

PTFE | PFA | FEP



Accessories for Magnetic Stirring

from page 2



Multiple Distributors

from page 6



Distributors for Canisters

from page 12



BOLA Stirring equipment – what you should now about it.

+ Strong Alnico-5-magnetic core for effective power transmission.

+ The PTFE jacketing is chemically and thermally highly resistant and therefore, suitable for use in aggressive and hot media.

+ Magnetic stirring bar in a guide cage adapted to beakers for smooth mixing with low shear forces.

+ Magnetic stirring bar, vessel and magnetic drive can be optimally matched to each other due to the wide range of shapes and dimensions.



BOLA Cylindrical Magnetic Stirring Bars

Material:
PTFE

Temperature resistance:
from -200 °C to +250 °C

Chemical resistance:
+++ universal



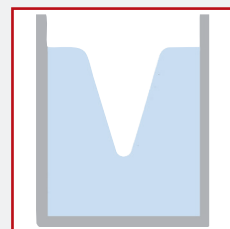
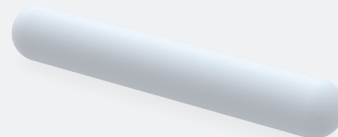
Product description:

PTFE-encapsulated magnetic core (Alnico 5), standard magnetic stirring bar, universal chemical resistance.

Length mm	Dia. mm	Cat. No.:	*recomm. price Euro	Length mm	Dia. mm	Cat. No.:	*recomm. price Euro
5	2	C 350-03	1,36	25	6	C 350-19	1,69
6	3	C 350-04	1,45	25	7	C 350-20	1,49
7	2	C 350-05	1,08	30	6	C 350-21	1,96
8	2	C 350-06	1,36	30	7	C 350-22	3,37
8	3	C 350-07	1,52	35	6	C 350-23	2,56
10	3	C 350-08	1,01	40	7	C 350-24	2,63
10	6	C 350-09	2,02	40	8	C 350-25	2,44
12	4,5	C 350-10	1,78	40	10	C 350-26	4,32
13	3	C 350-11	1,33	50	8	C 350-29	4,88
15	4,5	C 350-13	1,40	55	12	C 350-30	10,35
15	6	C 350-14	1,64	60	9	C 350-32	4,80
20	6	C 350-16	1,92	110	27	C 350-36	42,85
				120	12	C 350-37	24,68

Applications:

Cylindrical magnetic stirring bars offer excellent centering and smooth running characteristics.



BOLA Beakerliner

Material:
PTFE

Temperature resistance:
from -200 °C to +250 °C

Chemical resistance:
+++ universal

Vacuum:
suitable

autoclave:
121°



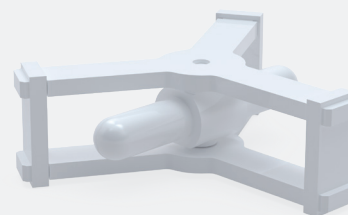
Product description:

PTFE-encapsulated magnetic core (Alnico 5) axially mounted in a guide cage made of PTFE, universal chemical resistance.

For Beakers low form ml	Cage O.D. mm	Cage height mm	Stirring bar length mm	Cat. No.	*recomm. price Euro
5, 10	15	8,5	10 x 3	C 362-02	148,09
25	25	10	20 x 3	C 362-04	149,73
50, 100	30	12,5	25 x 5	C 362-05	151,16
150, 250	47	17,5	35 x 6	C 362-07	136,52
400	67	21	50 x 8	C 362-08	118,74
600	74	28	60 x 9	C 362-12	127,76
800, 1.000	85	28	70 x 9	C 362-14	186,76
2.000	103	32	80 x 10	C 362-16	205,85
3.000, 5.000	125	48	106 x 25	C 362-20	223,14
10.000	185	50	155 x 26	C 362-24	357,61

Applications:

No shear action on the bottom of the beaker, smooth running in glass beakers also on an uneven bottom. The cage acts like a baffel and thus provides optimum mixing results.



BOLA Egg-Shaped Magnetic Stirring Bars

Material:
PTFE

Temperature resistance:
from -200 °C to +250 °C

Chemical resistance:
+++ universal

FDA conform

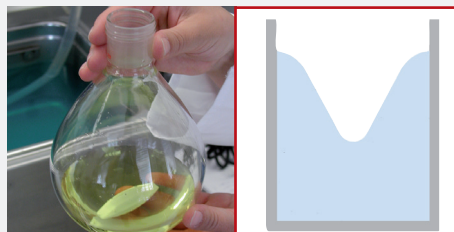
Product description:

PTFE-encapsulated magnetic core (Alnico 5), universal chemical resistance.

Length mm	Dia. mm	Suitable for round bottom flasks (DIN 12 348) ml	Cat. No.:	*recomm. price Euro
20	10	25	C 358-02	3,73
25	12	50	C 358-04	4,32
30	15	100	C 358-06	6,92
35	15	250	C 358-08	10,63
40	20	500	C 358-10	12,57
50	20	1.000	C 358-12	15,13
65	20	4.000	C 358-14	19,87
70	20	10.000	C 358-16	23,52

Applications:

Ideal for stirring in round bottom flasks. Shape mimics the one of the flasks and assures complete mixing.



BOLA Magnetic Stirring Bar Retrievers

Material:
PTFE

Temperature resistance:
from -200 °C to +250 °C

Chemical resistance:
+++ universal



FDA conform



Product description:

PTFE-encapsulated stirring bar retriever with strong permanent magnet (Alnico 5), universal chemical resistance.

Length mm	Lower end dia. mm	Bar dia. mm	Cat. No.:	*recomm. price Euro
150	10	8	C 372-02	11,82
200	10	8	C 372-04	13,16
250	10	8	C 372-06	12,50
300	10	8	C 372-08	13,29
350	10	8	C 372-10	13,43
400	10	8	C 372-12	14,04
600	10	8	C 372-18	18,64

Applications:

For the removal of stirring bars from aggressive liquids, prevents loss of stirring bars.



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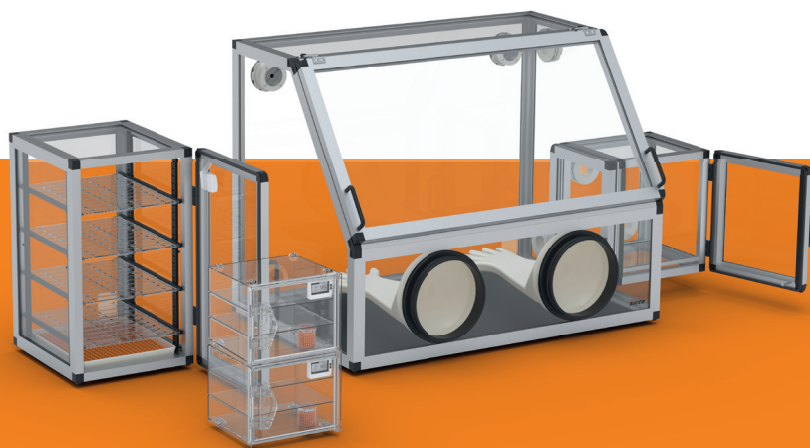
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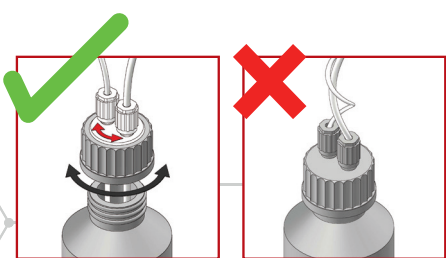
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BOLA Multiple Distributors – what you should know about.

How can liquids be taken out of a bottle or reaction vessel and simultaneously be distributed to several recipients without spillage? How can I pour different liquids into my vessel without loss? These questions were the beginning of BOLA Multiple Distributors for Bottles. They consist of a screw cap with GL thread and a movable body with GL-threaded necks. These necks allow the connection and insertion of hard-walled tubing (e.g. PTFE, PFA, FEP) or tubes made of different materials (glass, metal, plastic) by means of BOLA Laboratory Screw Joints.

The distributors are not only the basis of a distribution system which can be operated under pressure and vacuum. It is also possible to insert probes or electrodes into the GL-threaded necks and to fix them by means of laboratory screw joints. A possible unevenness of the bottle neck is adjusted by an o-ring behind an elastic sealing lip, and the bottle is closed tightly. The product is only exposed to the body of the distributor. The special feature: the body of the distributor can be turned independently from the screw cap. This means, that the completely assembled distributor can be removed and fixed on another bottle without the risk of disarranging the tubing.



+ No disarrangements thanks to 360° clearance of distributor body

+ High temperature resistance up to 200°C

+ Universal connecting options thanks to GL threads



+ Suitable for over- and underpressure

+ Integrated seal ensures perfect sealing

+ Handy cap geometry ensures a good grip

BOLA Multiple Distributors for Bottles

Material: PTFE, PPS Temperature resistance: from -50 °C to +150 °C Chemical resistance: +++ universal Vacuum: suitable autoclave: 121°



FDA conform

Product description:
Black screw cap made of PPS for bottle thread GL 45, body made of PTFE or PFA. Insertion of tubing with a max. O.D. of 8,5 mm. Very good chemical resistance, for working temperatures up to +200°C

Material	Necks GL	Cat. No.:	*recomm. price Euro
PFA	2 x GL14	D 614-08	81
PTFE	3 x GL14	D 615-08	122,34

Applications:
Drawing or inserting liquids. Inserting tubing, tubes and probes into vessels.



BOLA Multiple Distributors for Bottles

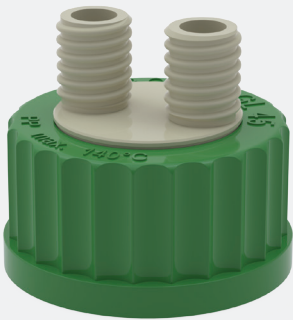
Material: PP Temperature resistance: from -0 °C to +110 °C Chemical resistance: ++ very good Vacuum: suitable autoclave: 121°

FDA conform

Product description:
Green screw cap made of PP for bottle thread GL 45 and body made of PP. Insertion of tubing with a max. O.D. of 8,5 mm. Restricted chemical resistance, for working temperatures up to +110°C.

Necks GL		Cat. No.:	*recomm. price Euro
2 x GL14		D 612-08	76,81
3 x GL14		D 613-08	86,54

Applications:
Drawing or inserting liquids. Inserting tubing, tubes and probes into vessels.



BOLA Laboratory Flasks

Material: **Glass, PP** Temperature resistance: **from 0 to +110 °C** Chemical resistance: **+++ universal**

Produktbeschreibung:

Flask made of borosilicate glass 3.3, thread GL45 with screw cap and pouring ring made of PP, outside with volume scale in 100 ml steps to estimate the volume. Using separately available BOLA Multiple Distributors GL45 and suitable tubing, you can simply fill or empty the flask.

	Capacity ml	Thread GL	Cat. No.:	*recomm. price Euro
A	500	45	D 300-43	20,18
B	1000	45	D 300-45	24,43



BOLA Multiple Distributors for Bottles

Material: **PTFE, PP** Temperature resistance: **from 0 °C to +110 °C** Chemical resistance: **+++ universal** Vacuum: **suitable** autoclave: **121°**

FDA conform

Product description:

Blue screw cap made of PP with GLS 80 thread, body made of PTFE.

	For tubing O. D. max. mm	Necks	Cat. No.:	*recomm. price Euro
A	6x 8,0	6x GL14	D 754-08	138,76
B	4x 12,7	4x GL18	D 754-16	106,89
C	3x 12,7 / 1x 14	3x GL18 / 1x GL25	D 754-24	111,41
D	2x 12,7 / 1x 21	2x GL18 / 1x GL32	D 754-36	174,87

FDA conform

Product description:

Blue screw cap made of PP with GLS 80 thread, body made of PP.

	For tubing O. D. max. mm	Necks	Cat. No.:	*recomm. price Euro
E	4x 12,7	4x GL18	D 750-16	111,46
F	3x 12,7 / 1x 14	3x GL18 / 1x GL25	D 750-24	93,32



BOLA Laboratory Flasks

Material: Glass, PP
Temperature resistance: from 0 to +110 °C
Chemical resistance: +++ universal

Product description:
Flask made of borosilicate glass 3.3, thread GLS80 with screw cap and pouring ring made of PP, outside with volume scale in 100 ml steps to estimate the volume. Using separately available BOLA Multiple Distributors GLS 80 and suitable tubing, you can simply fill or empty the flask.

	Capacity ml	Thread GL	Cat. No.:	*recomm. price Euro
A	500	GLS80	D 300-79	29,31
B	1000	GLS80	D 300-80	31,44



BOLA Laboratory Screw Joints HT (High Temp)

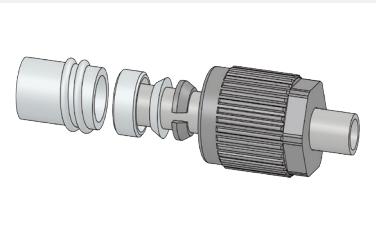
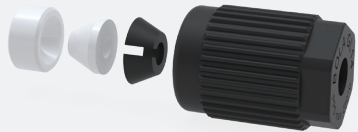
Material: PTFE, PPS
Temperature resistance: from -50 °C to +150 °C
Chemical resistance: +++ universal
Pressure: 10 bar
Vacuum: suitable

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	*recomm. price Euro	Cat. No.: Thread GL 18	*recomm. price Euro	Cat. No.: Thread GL 25	*recomm. price Euro
0,8	D 628-10	45,10				
1,0	D 628-18	41,06				
1,6	D 628-26	26,80	D 629-18	51,42	D 630-18	49,26
2,0	D 628-34	26,85	D 629-22	37,39	D 630-22	47,73
3,0	D 628-50	21,63	D 629-34	23,60	D 630-34	60,10
3,2	D 628-58	19,53	D 629-42	26,83	D 630-42	60,48
4,0	D 628-66	22,27	D 629-46	25,84	D 630-46	38,21
5,0	D 628-70	35,62				
6,0	D 628-74	21,41	D 629-54	19,43	D 630-54	31,09
6,35	D 628-78	33,08	D 629-56	72,84	D 630-58	60,47
8,0	D 628-82	31,69	D 629-62	22,40	D 630-62	32,27
9,52			D 629-68	60,08	D 630-68	62,59
10,0			D 629-74	23,40	D 630-74	31,84
12,0					D 630-80	35,21
12,7					D 630-84	68,17
14,0					D 630-90	39,19

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 Tubing

Material: PTFE Temperature resistance: from -200°C to +250°C Chemical resistance: +++ universal



Product description:

Translucent to milky-white appearance. Length can be customized up to a maximum roll length of 50 or 100 meters in one piece.

Product advantages:

- » almost universal chemical resistance
- » free from extractable agents
- » physiologically safe
- » non-adhesive surface
- » very good sliding characteristics
- » very good dielectric characteristics
- » flame retardant according to UL94V0
- » oxygen value more than 95
- » resistant to irradiation and weather
- » can be sterilized in autoclaves

PTFE

FEP

PFA

I.D. mm	O.D. mm	Wall thick- ness mm	Bending radius 1 mm	Burst pressure 2 bar	Cat.No.: PTFE	*recomm. price Euro	Cat.No.: FEP	*recomm. price Euro	Cat.No.: PFA	*recomm. price Euro
(1/32") 0,8	(1/16") 1,6	0,40	7	140	S 1810-10	3,39	S 1815-04	4,46	S 1811-02	11,38
1,5	3,0	0,75	12	140	S 1810-23	9,49	S 1815-05	12,44	S 1811-03	15,70
(1/16") 1,6	(1/8") 3,2	0,80	13	140	S 1810-26	7,56	S 1815-08	9,82	S 1811-04	18,77
2,0	4,0	1,00	16	140	S 1810-32	11,74	S 1815-12	15,50	S 1811-06	18,46
3,0	4,0	0,50	32	46	S 1810-34	7,46				
(1/8") 3,175	(1/4") 6,35	1,58	26	112	S 1810-39	24,73	S 1815-14	32,25	S 1811-07	37,38
3,6	6,0	1,2	30	75			S 1815-16	28,79	S 1811-08	48,04
4,0	6,0	1,00	36	70	S 1810-40	16,54	S 1815-20	22,72	S 1811-10	30,72
(11/64") 4,35	(1/4") 6,35	1,00	40	64	S 1810-42	18,44	S 1815-28	26,10	S 1811-14	38,10
(3/16") 4,78	(1/4") 6,35	0,79	51	46	S 1810-43	20,06	S 1815-30	18,18	S 1811-15	18,81
6,0	8,0	1,00	64	46	S 1810-50	21,31	S 1815-36	28,89	S 1811-18	45,44
(3/4") 6,35	(3/8") 9,52	1,59	58	56			S 1815-40	59,58	S 1811-20	60,83
8,0	10,0	1,00	100	35	S 1810-60	30,25	S 1815-48	46,58	S 1811-24	41,25
(3/8") 9,52	(1/2") 12,7	1,59	101	37			S 1815-56	76,62	S 1811-28	90,05
10,0	12,0	1,00	144	28	S 1810-64	35,63	S 1815-60	48,56	S 1811-30	62,05
12,0	14,0	1,00	196	23	S 1810-68	43,68	S 1815-68	74,82	S 1811-40	92,23
14,0	16,0	1,00	256	20	S 1810-74	57,10			S 1811-50	132,22

BOLA Tubing – good to know.

Dimensions

Large choice of standard diameters in PTFE, PFA and FEP.

Tolerances

BOLA Tubing are adjusted to the BOLA fitting system. Thus, the tolerances are tighter than the standard.

Requested lengths

Depending on the diameter, we offer coils with up to 100 m in one piece. Several rolls with the same lengths are available at low extra charges.

¹ Bending radius: minimum bending radius in mm at a room temperature of 23°C

² Burst pressure: computed value in bar at a room temperature of 23°C. It is recommended to restrict the maximum working pressure to 25% of the burst pressure. For higher temperatures, this value has to be multiplied by the reduction factor shown on page 359 of the BOLA catalogue. It is the user's responsibility to check if the used tubing fulfils the respective requirements.

Choice of tubing – good to know.

Here you can find the most important features in tabular form. The number of „+“ -signs stands for the degree of performance of the feature.

Tubing material	PTFE	PFA	FEP
Maximum temperature (at moderate charge)	+250	+260°C	+205°C
Minimum temperature (at moderate charge)	-200°C	-200°C	-200°C
Chemical resistance	+++	+++	++(+)
Transparency	+	++(+)	+++
Surface quality	++	+++	+++
Gas proofness (in limit range)	++	+++	+++
Recovery	+	++	++
Costs	+	+++	++

BOLA Tubing Rolls

Product description:

Fluoroplastic tubing made of PTFE, FEP and PFA. Cut to rolls with 5 m and 10 m length, individual packed in PE-bag.



FDA conform

BOLA Tubing rolls:

Transparent to milky-white

Roll length m	I.D. mm	O.D. mm	Material Cat.No.: / *recomm. price Euro		
			PTFE	FEP	PFA
5	(5/32") 3,96	(1/4") 6,35	S 2010-41 / 134,42	S 2020-24 / 129,01	S 2030-12 / 166,73
5	(11/64") 4,35	(1/4") 6,35	S 2010-42 / 84,80	S 2020-28 / 114,46	S 2030-14 / 179,66
5	6,0	8,00	S 2010-50 / 94,46	S 2020-36 / 129,67	S 2030-18 / 197,54
5	8,00	10,00	S 2010-60 / 134,38	S 2020-48 / 210,82	S 2030-24 / 186,32
5	(3/8") 9,52	(1/2") 12,7	S 2010-65 / 224,43	S 2020-56 / 349,42	S 2030-28 / 397,82
5	10,00	12,00	S 2010-64 / 165,35	S 2020-60 / 220,63	S 2030-30 / 284,32
10	(1/32") 0,8	(1/16") 1,6	S 2012-10 / 27,04	S 2022-04 / 41,56	S 2032-02 / 100,90
10	(1/16") 1,6	(1/8") 13,2	S 2012-26 / 66,88	S 2022-08 / 88,10	S 2032-04 / 161,09
10	2,00	3,00	S 2012-30 / 55,23	S 2022-07 / 80,95	S 2032-05 / 130,55
10	2,00	4,00	S 2012-32 / 102,38	S 2022-12 / 134,24	S 2032-06 / 165,12
10	4,00	6,00	S 2012-40 / 86,65	S 2022-20 / 120,68	S 2032-10 / 158,68

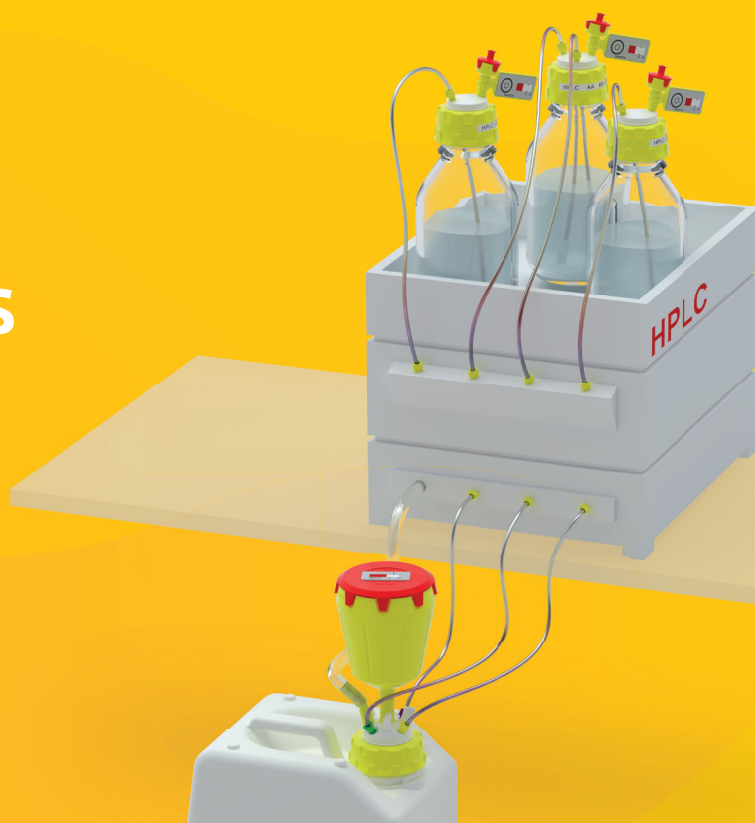
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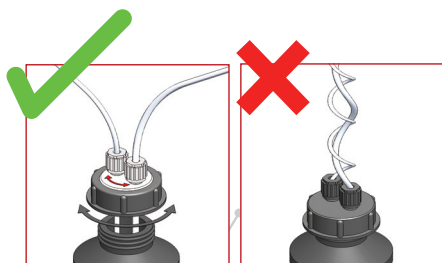
BOLA Distributors for Canisters – what you should know about.

These distributors are ideal for drawing liquids from canisters and for distributing these liquids to several vessels.

They consist of a screw cap for canister threads and a movable body with three GL-threaded necks. The threaded necks allow the connection of tubing or tubes made of glass, metal, or plastic by means of BOLA Laboratory Screw Joints. The distributor can also be integrated into a pressure or vacuum system.

A possible unevenness of the canister thread is adjusted by an o-ring behind an elastic sealing lip, and the canister is closed tightly. The product is only exposed to the body of the distributor.

The special clou: the body of the distributor can be turned independently from the screw cap. This means, that the completely assembled distributor can be removed and fixed on another canister without the risk of disarranging the tubing.



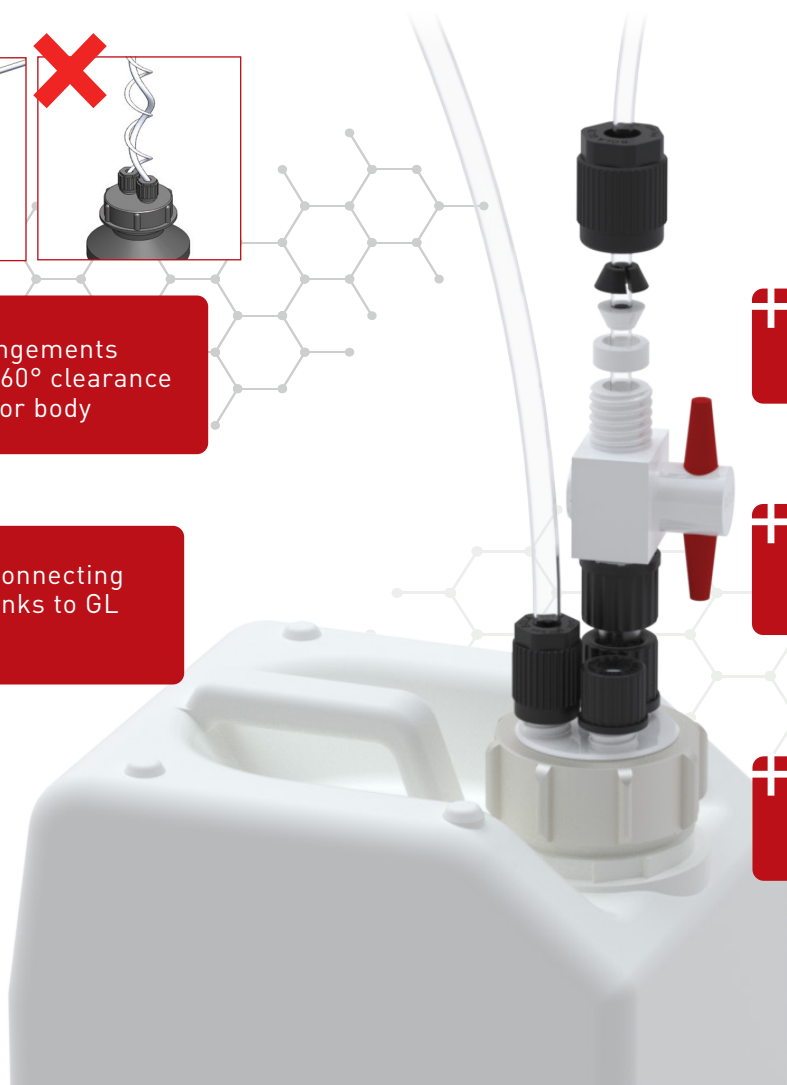
+ No disarrangements thanks to 360° clearance of distributor body

+ Universal connecting options thanks to GL thread

+ High temperature resistance up to 200°C

+ Integrated seal ensures perfect sealing

+ Handy cap geometry ensures good grip



BOLA Distributors for Canisters

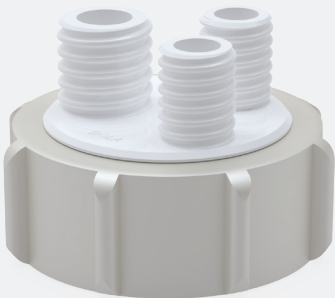
Material: PTFE Temperature resistance: from -20°C to +200°C Chemical resistance: +++ universal autoclave: 121°

FDA conform

Product description:
Distributors for canisters with movable body and GL-threaded necks.

» Type with screw cap made of glass-fibre reinforced PTFE and body made of PTFE.

Canister thread GLS	Necks GL	Cat. No.:	*recomm. price Euro
55	2x 14 / 1x 18	D 760-16	181,09
60	3x 18	D 760-24	115,79

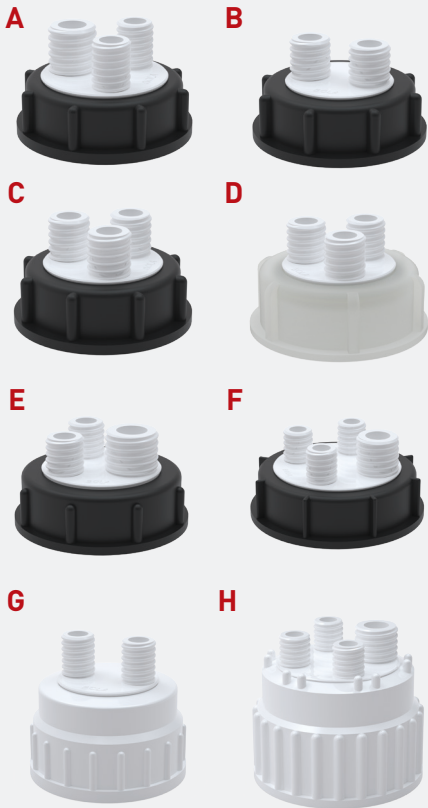


Material: PP, PTFE Temperature resistance: from -50°C to +80°C Chemical resistance: ++ very good autoclave: 121°

FDA conform

Product description:
» Type with screw cap made of PP and body made of PTFE.

	Canister thread GLS	Necks GL	Cat. No.:	*recomm. price Euro
A	55	2x 14 / 1x 18	D 762-08	53,70
B	60	2x 18	D 762-14	58,45
C	60	3x 18	D 762-20	41,97
D	65	3x 18	D 762-32	84,94
E	71	2x 18 / 1x 25	D 762-38	77,48
F	90	3x 18 / 1x 25	D 762-44	144,89
G	Nalgene B53	2x 14	D 766-16	62,21
H	Nalgene B83	3x 18 / 1x 25	D 766-22	85,02



BOLA Canisters S55

Material: **PE-HD** Temperature resistance: **from -50 to +80 °C** Chemical resistance: **++ very good**

NEW

UN

Product description:

Canister made of PE-HD with thread S55 and tamper evident closure. Using separately available BOLA Distributors for Canisters S55 and suitable tubing, you can simply fill or empty the canister. Version as per below chart.

Capacity l	Dimensions L x W x H mm	Cat. No.:	*recomm. price Euro
5	190 x 150 x 235	D 325-05	17,52
10	230 x 195 x 235	D 325-10	17,53



BOLA Canisters S60

Material: **PE-HD** Temperature resistance: **from -50 to +80 °C** Chemical resistance: **++ very good**

NEW

UN

Product description:

Canister made of PE-HD with thread S60 and tamper evident closure. Using separately available BOLA Distributors for Canisters S60 and suitable tubing, you can simply fill or empty the canister.

Capacity l	Neck	Dimensions L x W x H mm	Cat. No.:	*recomm. price Euro
5	straight	190 x 150 x 255	D 330-05	18,50
10	straight	220 x 190 x 340	D 330-10	19,10
20	straight	300 x 230 x 450	D 330-20	19,92



BOLA Canisters S90

Material: **PE-HD, PE-HD-EX** Temperature resistance: **from -50 to +80 °C** Chemical resistance: **++ very good**

NEW

UN

Product description:

Canister made of PE-HD or static dissipative PE-HD-EX with thread S90 and tamper evident closure. Using separately available BOLA Distributors for Canisters S90 and suitable tubing, you can simply fill or empty the canister.

Capacity l	Dimensions L x W x H mm	Cat. No.:	*recomm. price Euro
10	195 x 195 x 370	D 365-10	23,97



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- » In which application should the article be used?
- » What dimensions should the article have?
- » Are there any specific material specifications?
- » In which temperature range should the article be used?
- » What chemical stresses is the article exposed to?
- » In which quantities is the article required?
- » What cost per piece should the article not exceed?

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