

# DASGIP® Benchtop Bioreactor for Microbiology

## 3.5 L Vessel

### Technical data

<b>Model</b>	<b>Order no.</b>	<b>76DR04F</b>
	Application	Microbiology
	Standard set-up	Benchtop
<b>Bioreactor</b>	Sterilization	Autoclavable
	Working volume (total)	800 mL – 3.7 L (4.3 L)
	Material vessels	Glass
	Head plate	Stainless steel
	Head plate ports	1x M30, 8x M18x1.5, 4x D6, 4x baffles
	Autoclave dimensions (HxWxD)	660 mm x 190 mm x 190 mm
<b>Agitation</b>	Drive	Direct overhead drive
	Impellers	3x Rushton-type
	Recommended agitation speed	100 – 1.600 rpm
<b>Gassing</b>	Gas supply	Sparger
<b>Monitoring &amp; control</b>	Sensor size	320 mm
	T sensor	Pt100 RTD
	Exhaust condensation	Water-cooled



### DASGIP Benchtop Bioreactors (2.5 L and 3.5 L vessels)

#### Description

DASGIP Benchtop Bioreactors feature an autoclavable glass body and a stainless steel head plate. 16 industry-standard ports, direct overhead drives and Rushton-type impellers ensure optimal conditions for advanced microbial research and process development. All parts are laser-labelled with part numbers and have certificates of origin available.

#### Product Features

- > Working volumes of 750 mL – 2.7 L and 800 mL – 3.7 L
- > Direct overhead drives with 100 – 1600 rpm (30 – 1250 rpm optional), Rushton-type impellers
- > Industry-standard sensors available for precise monitoring and control of temperature, pH, DO, redox potential, level and OD

### Contents of vessel kit

Quantity	Order no.	Description	Quantity	Order no.	Description			
1	77102012	<b>DASGIP® Bioreactor</b> , single wall vessel dished bottom, 17 port headplate (DR), 4 L	1	78903211	<b>DASGIP® Plane Flange OD 160 Vessel</b> , dished bottom, OD 140 x H 350 mm (DR04)			
			1	78107249	<b>Stainless Steel Head Plate OD 190</b> , with 1x M30, 8x M18, 8x D6			
			0.5	78106319	<b>Silicone U Profile</b> , gray (RAL 7037), for DASGIP bioreactor type DR			
			3	78107260	<b>Stainless Steel Rod</b> , with M6 male threads for DASGIP® bioreactor type DR04, L 380 mm			
			1	78107284	<b>Stainless Steel Ring</b> , for DASGIP® bioreactor type DR, top ring			
			1	78107285	<b>Stainless Steel Ring</b> , for DASGIP® bioreactor type DR, bottom ring			
			6	78107261	<b>DASGIP® Bioreactor Knurled Nut</b> , M6			
			3	78704164	<b>Circlip (Seeger Ring)</b> , DIN 471, stainless steel (V2A), ID 6 x 0.7 mm			
			3	78706340	<b>Rounded Head Screw</b> , M6x35, stainless steel, hexagon socket (ISO 7380)			
			1	78706460	<b>O-Ring</b> , VMQ 70/Si 820, red, 135x4 (IDxd)			
			1	78706478	<b>O-Ring</b> , NBR 70/P583, black, 166.75x2 (IDxd)			
			4	77102034	<b>Baffle</b> , for bioreactor type DR, complete, 345 mm	1	78107264	<b>DASGIP® Bioreactor Baffle</b> , 345 mm
						1	78706135	<b>Washer</b> , M6, stainless steel
1	78706171	<b>Nut</b> , M6, 316L stainless steel, electro-polished						
1	78706407	<b>O-Ring</b> , VMQ 70/Si 820, red, 6x2 (IDxd)						
2	77102016	<b>DASGIP® Adaptor</b> , Pg 13.5 female thread to M18x1.5 male thread	1	78107257	<b>DASGIP® Adaptor</b> , stainless steel parts only, M18x1.5 male thread to Pg 13.5 female thread			
			1	78706458	<b>O-Ring</b> , VMQ 70/Si 820, red, 20x2 (IDxd)			

**Contents of vessel kit (continued)**

Quantity	Order no.	Description	Quantity	Order no.	Description
1	77102017	<b>DASGIP® Blind Plug</b> , stainless steel, all parts included, M18x1.5 male thread	1	*	<b>DASGIP® Blind Plug</b> , only stainless steel parts, M18x1.5 male thread
			1	78706458	<b>O-Ring</b> , VMQ 70/Si 820, red, 20x2 (IDxd)
2	77102020	<b>DASGIP® Blind Plug</b> , stainless steel, all parts included, M6 male thread	1	*	<b>Blind Plug</b> , for DASGIP head plate, M6
			1	78706407	<b>O-Ring</b> , VMQ 70/Si 820, red, 6x2 (IDxd)
			1	78706171	<b>Nut</b> , M6, 316L stainless steel, electro-polished
			1	78706135	<b>Washer</b> , M6, stainless steel
1	78532279	<b>DASGIP® Compression Fitting</b> , all parts included, ID 4 mm with M18x1.5 male thread	1	*	<b>DASGIP® Compression Fitting</b> , stainless steel parts only, ID 4 mm with M18x1.5 male thread
			1	78706417	<b>O-Ring</b> , VMQ 70/Si 820, red, 4x1.5 (IDxd)
			1	78706351	<b>Front Ferrule</b> , PFA, for OD 4 mm DASGIP® compression fitting
			1	78706352	<b>Back Ferrule</b> , PFA, for OD 4 mm DASGIP® compression fitting
			1	78706458	<b>O-Ring</b> , VMQ 70/Si 820, red, 20x2 (IDxd)
2	78532280	<b>DASGIP® Compression Fitting</b> , all parts included, ID 6 mm with M18x1.5 male thread	1	*	<b>DASGIP® Compression Fitting</b> , stainless steel parts only, ID 6 mm with M18x1.5 male thread
			1	78706416	<b>O-Ring</b> , VMQ 70/Si 820, red, 6x1.5 (IDxd)
			1	78706353	<b>Front Ferrule</b> , PFA, for OD 6 mm DASGIP® compression fitting
			1	78706354	<b>Back Ferrule</b> , PFA, for OD 6 mm DASGIP® compression fitting
			1	78706458	<b>O-Ring</b> , VMQ 70/Si 820, red, 20x2 (IDxd)
1	78525118	<b>DASGIP® Lipseal Stirrer Assembly</b> , with M30x1 seat, stirrer shaft d 8 mm x Li 298 mm			
3	78100557	<b>6-Blade Rushton-Type Impeller</b> , stainless steel, OD 46 mm, ID 8 mm			
1	78107178	<b>Stainless Steel Pipe</b> , with barb, OD 4 mm/ID 2 mm, L 370 mm			
1	78107380	<b>Harvest Tube</b> , stainless steel, D6, L 410 mm, for DASGIP® culture vessel DR04			
1	77102031	<b>Thermowell</b> , M6, stainless steel, L 350 mm, ID 2 mm, Li 313 mm, complete	1	*	<b>Thermowell</b> , M6, stainless steel, L 350 mm, ID 2 mm, Li 313 mm
			1	78706135	<b>Washer</b> , M6, stainless steel
			1	78706171	<b>Nut</b> , M6, 316L stainless steel, electro-polished
			1	78706407	<b>O-Ring</b> , VMQ 70/Si 820, red, 6x2 (IDxd)
1	77102023	<b>L-Sparger for DASGIP® Culture Vessel</b> , stainless steel, complete, D6, L 370 mm, W 63 mm	1	*	<b>L-Sparger for DASGIP® Culture Vessel</b> , stainless steel, D6, L 370 mm, W 63 mm, barb
			1	78706255	<b>Slotted Screw</b> , stainless steel, M5x5, used with DASGIP® L-sparger
1	78510145	<b>DASGIP® Sampling Accessory</b> , with swabable valve for vessels type BS/DS/SR/DR			
1	78200119	<b>Tubing Clamp (Mohr)</b> , nickel-plated brass, L 50 mm			
1	77102018	<b>DASGIP® Triple Port</b> , with 3x OD 4 mm tubing, with M18x1.5 male thread, all parts included	1	*	<b>DASGIP® Triple Port</b> , with 3x OD 4 mm tubing, with M18x1.5 male thread, stainless steel parts
			1	78706458	<b>O-Ring</b> , VMQ 70/Si 820, red, 20x2 (IDxd)
			6	78706415	<b>O-Ring</b> , VMQ 70/Si 973, red, 4x1 (IDxd)
3	78532036	<b>Liquid Feed Connector Assembly</b> , for stainless-steel pipe OD 4 mm, complete			
1	78532039	<b>Liquid Feed Connector Assembly</b> , for stainless-steel pipe OD 6 mm, complete			
1	77102019	<b>DASGIP® Septum Holder</b> , stainless steel, with septum, M18x1.5 male, ID 12 mm	1	78107257	<b>DASGIP® Adaptor</b> , stainless steel parts only, M18x1.5 male thread to Pg 13.5 female thread
			1	78706458	<b>O-Ring</b> , VMQ 70/Si 820, red, 20x2 (IDxd)
			1	78106309	<b>Silicone Rubber Septum</b> , Pg 13.5, OD 18 mm/ID 12 mm
			1	78706409	<b>DASGIP® Fitting</b> , stainless steel, with Pg 13.5 male thread, ID 12 mm port
1	78532034	<b>Filter Assembly</b> , type 'Gas In'	1	78100156	<b>Gas In- and Outlet Filter</b> , 0.2 µm pore size, for tubes with OD 4 mm or ID 7 mm
			1	*	<b>Cable Ties</b> , 2.5 x 92 mm
			5	78105216	<b>Silicone Tubing</b> , ID 4 mm, OD 8 mm, W 2 mm
1	78704149	<b>Hex Wrench</b> , with ball shaped head, size 1.5 mm			
3	78706274	<b>Set Screw</b> , M3x4, DIN 913, stainless steel for hex wrench size 1.5mm			

**Accessories**

1	77102050	<b>Condenser</b> , for DASGIP® culture vessel, complete, OD 30 mm			
1	78532281	<b>DASGIP® Compression Fitting</b> , all parts included, ID 12 mm with M18x1.5 male thread			
1	77102020	<b>DASGIP® Blind Plug</b> , stainless steel, all parts included, M6 male thread			
1	78532037	<b>Filter Capsule Assembly</b> , type 'Gas Out'			
1	78532346	<b>Maintenance Kit</b> , for benchtop vessel 2.5 L/3.5 L			
1	78532319	<b>Maintenance/spare parts kit</b> DASGIP lipseal stirrer assembly M30			
1	78532341	<b>Maintenance/spare parts kit</b> DASGIP lipseal stirrer assembly M30 for Applikon Vessels			

\* Not for individual sale.

Your local distributor: [www.eppendorf.com/contact](http://www.eppendorf.com/contact)

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