

DASGIP® Benchtop Bioreactor for Microbiology

3.5 L Vessel

Technical data

Model	Order no.	76DR04F
	Application	Microbiology
	Standard set-up	Benchtop
Bioreactor	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
Agitation	Drive	Direct overhead drive
	Impellers	3x Rushton-type
	Recommended agitation speed	100 – 1.600 rpm
Gassing	Gas supply	Sparger
Monitoring & control	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	DASGIP® Bioreactor , single wall vessel dished bottom, 17 port headplate (DR), 4 L	1	78903211	DASGIP® Plane Flange OD 160 Vessel , dished bottom, OD 140 x H 350 mm (DR04)			
			1	78107249	Stainless Steel Head Plate OD 190 , with 1x M30, 8x M18, 8x D6			
			0.5	78106319	Silicone U Profile , gray (RAL 7037), for DASGIP bioreactor type DR			
			3	78107260	Stainless Steel Rod , with M6 male threads for DASGIP® bioreactor type DR04, L 380 mm			
			1	78107284	Stainless Steel Ring , for DASGIP® bioreactor type DR, top ring			
			1	78107285	Stainless Steel Ring , for DASGIP® bioreactor type DR, bottom ring			
			6	78107261	DASGIP® Bioreactor Knurled Nut , M6			
			3	78704164	Circlip (Seeger Ring) , DIN 471, stainless steel (V2A), ID 6 x 0.7 mm			
			3	78706340	Rounded Head Screw , M6x35, stainless steel, hexagon socket (ISO 7380)			
			1	78706460	O-Ring , VMQ 70/Si 820, red, 135x4 (IDxd)			
			1	78706478	O-Ring , NBR 70/P583, black, 166.75x2 (IDxd)			
			4	77102034	Baffle , for bioreactor type DR, complete, 345 mm	1	78107264	DASGIP® Bioreactor Baffle , 345 mm
						1	78706135	Washer , M6, stainless steel
1	78706171	Nut , M6, 316L stainless steel, electro-polished						
1	78706407	O-Ring , VMQ 70/Si 820, red, 6x2 (IDxd)						
2	77102016	DASGIP® Adaptor , Pg 13.5 female thread to M18x1.5 male thread	1	78107257	DASGIP® Adaptor , stainless steel parts only, M18x1.5 male thread to Pg 13.5 female thread			
			1	78706458	O-Ring , VMQ 70/Si 820, red, 20x2 (IDxd)			

Contents of vessel kit (continued)

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

Accessories

1	77102050	Condenser , for DASGIP® culture vessel, complete, OD 30 mm			
1	78532281	DASGIP® Compression Fitting , all parts included, ID 12 mm with M18x1.5 male thread			
1	77102020	DASGIP® Blind Plug , stainless steel, all parts included, M6 male thread			
1	78532037	Filter Capsule Assembly , type 'Gas Out'			
1	78532346	Maintenance Kit , for benchtop vessel 2.5 L/3.5 L			

* Not for individual sale.

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