

The new SlimLine lab washers — Compact dimensions, high capacity

With its new SlimLine lab washers, high-performance reprocessing methods, perfectly matching ProCare Lab process chemicals and practical accessories, Miele is offering a comprehensive and systematic solution to the reprocessing of laboratory glassware for analytical experiments. Going beyond standard approaches, Miele engineers together with users have come up with individualised solutions to tackle everyday laboratory challenges.



Product benefit overview

PLW 6011 and PLW 6111



SmartLoad - flexible use of chamber space

The new SlimLine lab washers from Miele Professional excel in terms of high performance on a small footprint. And what's more, the innovative SmartLoad system enables chamber space to be used particularly efficiently.

Models from the PLW 6111 series are able to accommodate up to 3 baskets on telescopic racks. These baskets dock onto the water circulation system at 4 different heights. This allows a wide range of load height combinations, starting with using the lowest rack level only for a maximum vertical clearance of 630 mm.







Compact machine dimensions combined with large chamber capacity

- Small footprint with width of only 650 mm
- 3 levels with injector nozzles
- Vertical clearance of up to 630 mm for large vessels
- 121 pipettes and 40 bottles (1 l) in a single cycle



Spotless results through combination of programme cycle and process chemicals

- ProCare Lab process chemicals for optimum results
- Thorough cleaning combined with the gentlest treatment of materials
- Detergents and neutralising agents in various canister sizes



Intelligent controls

- Controls with flush, uninterrupted touch glass screen
- All information visible at a glance thanks to 3.5" display
- Maximum of 40 programme slots (standard programmes and vacant programme slots)
- Simple and effective cleaning
- RS232 port for connecting to a printer or PC



Simple and efficient cleaning processes

- Chamber, spray arms and tank filters are made from high-grade stainless steel (DIN 1.4404/AISI 316L)
- Conductivity monitoring for high-level process security
- HEPA H14 fine filter for germ-free drying air
- Built-in water softener*
- Heated boiler for shorter cycle times*
- * depending on model



Visual monitoring of chamber

- Process control thanks to full glass door
- Integrated chamber lighting
- Automatic door lock



Wide range of load carriers

- Range specifically designed for laboratory use
- Maximum flexibility combined with intuitive use
- Wide range of standard and configurable loading options
- Possibility to reprocess even the smallest items of laboratory glassware through to very large containers (up to 50 l)

The new SlimLine lab washers

PLW 6011





External dimensions [Width x Height x Depth mm] 650, 1685, 660 Chamber dimensions [Width x Height x Depth mm] 540, 585 Usable volume [] 170 Load concept Rack system with max. 2 levels and 3 different positions Programmes 40 programme positions Programme selection Touch on Glass Features Single-door model • Glass door, bottom-hinged, chamber lighting • Electric heating • Hot-air drying, Incl. HEPA H14 filter • Steam condenser • Integrated dispenser pumps 2 Drain pump • Water connections HW, CW, de-mineralised water Electrical connection 3N AC 400 V, 50 Hz • Total rated load [kW] 8.25 Conductivity meter model-dependent Water softener model-dependent Sampling tap model-dependent Load capacity model-dependent Load capacity 100 ml laboratory bottles 84 1000 ml laboratory bottles 84 1000	SlimLine lab washer	PLW 6011
Usable volume [I]	External dimensions [Width x Height x Depth mm]	650, 1685, 660
Load concept Rack system with max. 2 levels and 3 different positions Programmes 40 programme positions Touch on Glass Features Single-door model • Glass door, bottom-hinged, chamber lighting • Electric heating • Not-air drying, incl. HEPA H14 filter • Steam condenser • Integrated dispenser pumps 2 Drain pump • Water connection 3N AC 400 V, 50 Hz • Total rated load [kW] 8.25 Conductivity meter model-dependent Water softener model-dependent Sampling tap model-dependent USB port model-dependent Load capacity model-dependent Load capacity 84 100 ml laboratory bottles 84 250 ml laboratory bottles 84 100 ml laboratory bottles 84 100 ml laboratory bottles 90 Phials 312	Chamber dimensions [Width x Height x Depth mm]	540, 540, 585
Programmes selection Touch on Glass Features Single-door model Glass door, bottom-hinged, chamber lighting Electric heating Hot-air drying, incl. HEPA H14 filter Steam condenser Integrated dispenser pumps Integrated dispenser pumps Integrated dispenser pumps Integrated connection SN AC 400 V, 50 Hz Total rated load [kW] Conductivity meter Water softener Sampling tap model-dependent Water softener Sampling tap model-dependent USB port Load capacity Load capacity Finals 84 40 programme positions Fouch on Glass	Usable volume [I]	170
Programme selection Features Single-door model Glass door, bottom-hinged, chamber lighting Electric heating Hot-air drying, incl. HEPA H14 filter Steam condenser Integrated dispenser pumps 2 Drain pump Water connections HW, CW, de-mineralised water Electrical connection 3N AC 400 V, 50 Hz Foold trated load [kW] Water softener Water softener Board trated load [kW] Sappling tap Model-dependent Water softener Water softener Water softener Water softener Water on model-dependent Water softener Water Wate	Load concept	Rack system with max. 2 levels and 3 different positions
Features Single-door model Class door, bottom-hinged, chamber lighting Electric heating Hot-air drying, incl. HEPA H14 filter Steam condenser Integrated dispenser pumps 2 Drain pump HW. CW. de-mineralised water Electrical connection 3N AC 400 V, 50 Hz Fotal rated load [kW] Conductivity meter Water softener Water softener Sampling tap model-dependent Water softener Sampling tap model-dependent USB port Load capacity 100 ml laboratory bottles 84 250 ml laboratory bottles 84 1000 ml laboratory bottles 90 Phials 100 Class door, bottom-hinged, chamber lighting 100 class door, bottom-hinged, chamber lig	Programmes	40 programme positions
Single-door model • Glass door, bottom-hinged, chamber lighting • Electric heating • Hot-air drying, incl. HEPA H14 filter • Steam condenser • Integrated dispenser pumps 2 Drain pump • Water connections HW, CW, de-mineralised water Electrical connection 3N AC 400 V, 50 Hz • Total rated load [kW] 8.25 Conductivity meter model-dependent Water softener model-dependent Sampling tap model-dependent USB port model-dependent Load capacity model-dependent 100 ml laboratory bottles 84 250 ml laboratory bottles 84 1000 ml laboratory bottles 84 1000 ml laboratory bottles 20 Phials 312	Programme selection	Touch on Glass
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Hot-air drying, incl. HEPA H14 filter • Steam condenser • Integrated dispenser pumps 2 Drain pump • Water connections HW, CW, de-mineralised water Electrical connection 3N AC 400 V, 50 Hz • Total rated load [kW] 8.25 Conductivity meter model-dependent Water softener model-dependent Sampling tap model-dependent USB port model-dependent USB port model-dependent Load capacity 84 250 ml laboratory bottles 84 250 ml laboratory bottles 84 1000 ml laboratory bottles 84 1000 ml laboratory bottles 20 Phials 312	Glass door, bottom-hinged, chamber lighting	•
Steam condenser • Integrated dispenser pumps 2 Drain pump • Water connections HW, CW, de-mineralised water Electrical connection 3N AC 400 V, 50 Hz • Total rated load [kW] 8.25 Conductivity meter model-dependent Water softener model-dependent Sampling tap model-dependent USB port model-dependent Load capacity model-dependent 100 ml laboratory bottles 84 250 ml laboratory bottles 84 1000 ml laboratory bottles 84 1000 ml laboratory bottles 20 Phials 312	Electric heating	•
Integrated dispenser pumps Parin pump Water connections HW, CW, de-mineralised water Electrical connection 3N AC 400 V, 50 Hz Total rated load [kW] Sampling tap Water softener Sampling tap Model-dependent USB port Coad capacity Load capacity 100 ml laboratory bottles 84 250 ml laboratory bottles 84 1000 ml laboratory bottles 20 Phials	Hot-air drying, incl. HEPA H14 filter	•
Drain pump Water connections HW, CW, de-mineralised water Electrical connection 3N AC 400 V, 50 Hz Total rated load [kW] Conductivity meter Mater softener Sampling tap model-dependent USB port Coad capacity Load capacity 100 ml laboratory bottles 84 250 ml laboratory bottles 84 1000 ml laboratory bottles 20 Phials	Steam condenser	•
Water connections HW, CW, de-mineralised water Electrical connection 3N AC 400 V, 50 Hz • Total rated load [kW] 8.25 Conductivity meter model-dependent Water softener model-dependent Sampling tap model-dependent USB port model-dependent Load capacity model-dependent 100 ml laboratory bottles 84 250 ml laboratory bottles 84 1000 ml laboratory bottles 20 Phials 312	Integrated dispenser pumps	2
Electrical connection 3N AC 400 V, 50 Hz Total rated load [kW] 8.25 Conductivity meter Water softener Sampling tap model-dependent USB port Model-dependent USB port Load capacity 100 ml laboratory bottles 84 250 ml laboratory bottles 84 1000 ml laboratory bottles 20 Phials	Drain pump	•
Total rated load [kW] Conductivity meter Mater softener Sampling tap Model-dependent USB port Model-dependent model-dependent model-dependent model-dependent Model-dependent Model-dependent Model-dependent Model-dependent 100 ml laboratory bottles 84 250 ml laboratory bottles 84 1000 ml laboratory bottles 20 Phials 312	Water connections	HW, CW, de-mineralised water
Conductivity meter model-dependent Water softener model-dependent Sampling tap model-dependent USB port model-dependent Load capacity 100 ml laboratory bottles 84 250 ml laboratory bottles 84 1000 ml laboratory bottles 20 Phials 312	Electrical connection 3N AC 400 V, 50 Hz	•
Water softener model-dependent Sampling tap model-dependent USB port model-dependent Load capacity 100 ml laboratory bottles 84 250 ml laboratory bottles 84 1000 ml laboratory bottles 20 Phials 312	Total rated load [kW]	8.25
Sampling tap model-dependent USB port model-dependent Load capacity 100 ml laboratory bottles 84 250 ml laboratory bottles 84 1000 ml laboratory bottles 20 Phials 312	Conductivity meter	model-dependent
USB port model-dependent Load capacity 84 250 ml laboratory bottles 84 1000 ml laboratory bottles 84 1000 ml laboratory bottles 20 Phials 312	Water softener	model-dependent
Load capacity100 ml laboratory bottles84250 ml laboratory bottles841000 ml laboratory bottles20Phials312	Sampling tap	model-dependent
100 ml laboratory bottles84250 ml laboratory bottles841000 ml laboratory bottles20Phials312	USB port	model-dependent
100 ml laboratory bottles84250 ml laboratory bottles841000 ml laboratory bottles20Phials312	Load capacity	
1000 ml laboratory bottles20Phials312		84
Phials 312	250 ml laboratory bottles	84
	1000 ml laboratory bottles	20
	Phials	312
Pipettes 121	Pipettes	121

The new SlimLine lab washers

PLW 6111





SlimLine lab washer	PLW 6111
External dimensions [Width x Height x Depth mm]	650, 1840, 687
Chamber dimensions [Width x Height x Depth mm]	540, 690, 585
Usable volume [I]	218
Load concept	Rack system with max. 3 levels and 4 different positions
Programmes	40 programme positions
Programme selection	Touch on Glass
Features	
Single-door model	•
Glass door, bottom-hinged, chamber lighting	•
Electric heating	•
Hot-air drying, incl. HEPA H14 filter	•
Steam condenser	•
Integrated dispenser pumps	2
Drain pump	•
Water connections	HW, CW, de-mineralised water
Electrical connection 3N AC 400 V, 50 Hz	•
Total rated load [kW]	8.25
Conductivity meter	model-dependent
Water softener	model-dependent
Sampling tap	model-dependent
USB port	model-dependent
Load capacity	
	100
100 ml laboratory bottles	126
250 ml laboratory bottles	84
1000 ml laboratory bottles	40
Phials	468
Pipettes	121

Standard baskets

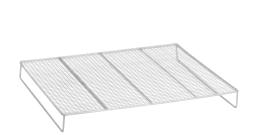




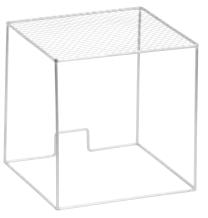
- APLW 000 upper basket
 For laboratory glassware, e.g. beakers
 Useable surface: 485 x 525 mm

- APLW 001 load carrier
 For laboratory glassware, e.g. beakers
 Useable surface: 490 x 540 mm

Inserts

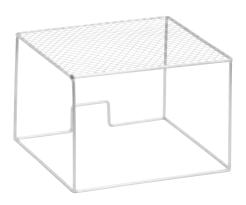


APLW 033 top frame
• Vertical clearance reduced by 50 mm



APLW 034 cover

Cover for light-weight laboratory glassware, e.g. test tubes



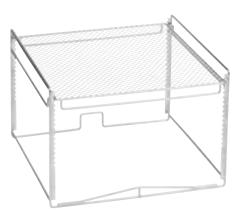
APLW 035 cover

• Cover for light-weight laboratory glassware, e.g. test tubes



APLW 036 cover

• Basket cover



APLW 037 protective grid
 Adjustable protective cover for the safe reprocessing of test tubes



APLW 038 insert

- Insert with spring hook for laboratory glassware
 14 spring hooks, 175 mm
 14 spring hooks, 105 mm

Inserts



APLW 039 insert
• For Petri dishes
• 26 items



APLW 040 insert • For test tubes • Height 115 mm



- APLW 041 insert
 For test tubes
 Height 145 mm

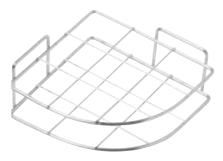


APLW 042 insert

- For test tubes Height 215 mm



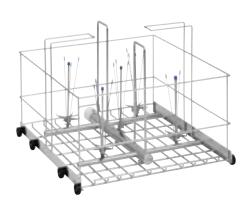
APLW 043 lid
• Cover for APLW 040, APLW 041 and APLW 042



APLW 044 insert

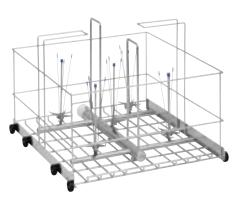
- For test tubes
 Separator for APLW 040, APLW 041 and APLW 042

Pre-configured baskets



APLW 002 load carrier

- For bottles (5 and 10 l), large Erlenmeyer flasks
- Up to 4 items, Ø max mm 240
 Up to 5 items, Ø max mm 190



APLW 003 load carrier

- For bottles (up to 20 l), large Erlenmeyer flasks
- Up to 2 items, Ø max. mm 280



APLW 004 load carrier

• For bottles, max. 50 I



APLW 005 load carrier

- For pipettes (max. 56)
 Max. pipette length: 760 mm on PLW 6111



APLW 006 load carrier

- For pipettes (max. 121)
 Max. pipette length: 470 mm on PLW 6011



APLW 008 load carrier

• For pipettes (reprocessing in 3 cartridges)



APLW 007 load carrier

- For pipettes (reprocessing in 2 cartridges)
 Max. pipette length 520 mm



Upper and lower baskets with configurable nozzles

Basket layouts

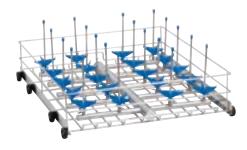




Fig. shows example of APLW 030 lower basket

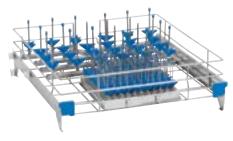
Basket layout 2

Fig. shows example of APLW 026 lower basket





Fig. shows example of APLW 019 upper basket



Basket layout 3

Fig. shows example of APLW 018 upper basket

Upper and lower baskets, with pre-fitted nozzles

Basket versions

Upper basket	Ø max. mm	Max. height mm	No. of nozzles	Basket layout	Note
APLW 013/1	70	160	42	2	With 42x APLW 051
APLW 013/2	70	200 - 300	10 + 32	2	With 32x APLW 051 + 10x APLW 055
APLW 014/1	100	230	20	1	With 20x APLW 055
APLW 018/1	20 + 75	160	24 + 121	3	With 121x APLW 048 + 24x APLW 051
APLW 019/1	25	90	121	4	With 121x APLW 047

Lower basket	Ø max. mm	Max. height mm	No. of nozzles	Basket layout	Note
APLW 020/1	25	140	121	4	With 121x APLW 047
APLW 024/1	70	230	42	1	With 42x APLW 052
APLW 024/2	70	200 - 300	42	1	With 10x APLW 055 + 32x APLW 051
APLW 024/3	70	180 - 280	42	1	With 12x APLW 067 + 30x APLW 066
APLW 025/1	70	200 - 300	24	2	With 12x APLW 056 + 12x APLW 052
APLW 026/1	100	300	20	1	With 20x APLW 056
APLW 30/1	100	180 - 280	12	2	With 6x APLW 067 + 6x APLW 066
APLW 032/1	20 + 75	160 - 300	24 + 121	3	With 121x APLW 048 + 24x APLW 056

Upper and lower baskets, empty, freely configurable with nozzles

Basket versions

Upper basket	Ø max. mm	No. of nozzles	Basket layout	Note
APLW 010	32	156	1	only for 2.5 mm Ø nozzles
APLW 011	40	110	1	only for 2.5 mm Ø nozzles
APLW 012	35	84	1	only for 2.5 mm Ø nozzles
APLW 013	70	42	1	
APLW 014	100	20	1	
APLW 015	110	16	1	
APLW 016	75	27	1	
APLW 017	20	121	2	200x490 mm grid
APLW 018	75	24+121	3	See also APLW 035, APLW 034, APLW 036
APLW 019	25	121	4	only for 2.5 mm Ø nozzles

Lower basket	Ø max. mm	No. of nozzles	Basket layout	Note
APLW 020	25	121	4	only for 2.5 mm Ø nozzles
APLW 021	40	110	1	only for 2.5 mm Ø nozzles
APLW 022	52	70	1	only for 2.5 mm Ø nozzles
APLW 023	60	56	1	only for 2.5 mm Ø nozzles
APLW 024	70	42	1	
APLW 025	70	24	2	230 x 490 mm usable space
APLW 026	100	20	1	
APLW 027	110	16	1	
APLW 028	75	27	1	
APLW 029	130	12	1	
APLW 030	100	12	2	220x490 mm grid
APLW 031	160	9	1	
APLW 032	75	24+121	3	See also APLW 035, APLW 034, APLW 036

Injector nozzles for configuration of baskets



Nozzle type 1

- Standard support, Ø 4 mm for test tubes, low-capacity measuring cylinders, centrifuge tubes
- Fig. shows example of APLW 045



Nozzle type 2

- Standard support, Ø 5 mm for narrow-necked glasses, measuring cylinders
- Fig. shows example of APLW 050



Nozzle type 3

- Standard support, Ø 10 mm for narrow-necked glasses, measuring cylinders
- Fig. shows example of APLW 053



Nozzle type 4

- Flexible support, interior Ø 10 mm for Erlenmeyer flasks, wide- and narrow-necked glasses, measuring cylinders, Imhoff flasks
- Fig. shows example of APLW 058



Nozzle type 5

- Rigid support, interior, Ø 10 mm for wide-necked bottles, Erlenmeyer flasks
- Fig. shows example of APLW 061



Nozzle type 6

- Rigid support, exterior Ø 10 mm for Erlenmeyer flasks, wide- and narrow-necked glasses, measuring cylinders, Imhoff flasks
- Fig. shows example of APLW 066



Nozzle type 7

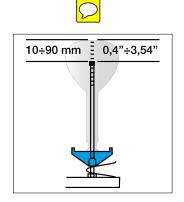
- Rigid support, Ø 17 mm for Erlenmeyer flasks, laboratory bottles, funnels, measuring cylinders
- Fig. shows example of APLW 069

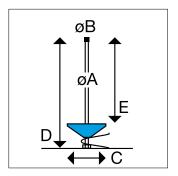
Depending on the form and size of loads, injector nozzles should be chosen to give a gap between the tip of the nozzle and the base of the glass of between 10 and 90 mm.

Various nozzles can be supplied with a spring clip for height adjustment. By adjusting the spring clip, it is possible to reprocess laboratory glassware in a variety of sizes.

When selecting injector nozzles, the following dimensions apply: Gap D must be less than the max. permissible loading height for the respective rack level, measured from the injector base to the bottom of the item of glassware.

Gap E must be adjusted to the height of the item of glassware, measured from the support to the tip of the nozzle.





	Ø A mm	Ø B mm	C mm	D mm	E mm	Model	Clamp			
Nozzle type 1	Standard supp	oort, Ø 4 mm for test t	ubes, low-capacity n	neasuring cylinders,	centrifuge tubes					
APLW 045	2.5	4	15	80	75	1	No			
APLW 046	2.5	4	15	80	80	1	Yes			
APLW 048	2.5	4	32	80	80	2	No			
APLW 047	2.5	4	32	50	50	2	No			
APLW 049	2.5	4	15	80	80	2	No			
Nozzle type 2	Standard supp	Standard support, Ø 5 mm for narrow-necked glasses, measuring cylinders								
APLW 050	4	5	54	75	50	2	No			
APLW 051	4	5	54	110	80	3	Yes			
APLW 052	4	5	54	175	130	3	Yes			
Nozzle type 3	Standard supp	oort, Ø 10 mm for narr	row-necked glasses,	measuring cylinders						
APLW 053	6	10	75	115	85	2	No			
APLW 054	6	10	75	135	95	3	Yes			
APLW 055	6	10	75	175	130	3	Yes			
APLW 056	6	10	75	225	185	3	Yes			
APLW 057	6	10	75	275	235	3	Yes			
Nozzle type 4	Flexible suppo	ort, interior Ø 10 mm fo	or Erlenmeyer flasks,	wide- and narrow-ne	ecked glasses, meas	uring cylinders, Imhol	f flasks			
APLW 058	6	10	75	135	105	2	No			
APLW 059	6	10	75	225	185	3	Yes			
APLW 060	6	10	75	275	235	3	Yes			
Nozzle type 5	Rigid support,	interior, Ø 10 mm for	wide-necked bottles	, Erlenmeyer flasks						
APLW 061	6	10	75	115	85	2	No			
APLW 062	6	10	75	135	95	3	Yes			
APLW 063	6	10	75	175	130	3	Yes			
APLW 064	6	10	75	225	185	3	Yes			
APLW 065	6	10	75	275	235	3	Yes			
Nozzle type 6	Rigid support, exterior Ø 10 mm for Erlenmeyer flasks, wide- and narrow-necked glasses, measuring cylinders, Imhoff flasks									
APLW 066	6	10	Flexible	175			No			
APLW 067	6	10	Flexible	175			Yes			
APLW 068	6	10	Flexible	275			No			
Nozzle type 7	Rigid support, Ø 17 mm for Erlenmeyer flasks, laboratory bottles, funnels, measuring cylinders									
APLW 069	8	17	87	255	235		No			
APLW 070	8	17	87	320	300		No			
APLW 071	8	17	105	320	300		No			

Injector nozzle accessories



APLW 080 holder

- Height: 140 mm

APLW 081 holder

- Ø 6 mm
- Height: 186 mm



APLW 083 bottle support

- Securing of load
- Ø 6 mm
- Height: 130 mm

APLW 082 bottle support

- Securing of load
- Ø 6 mm
- Height: 200 mm



APLW 093 irrigation sleeve

• Pipette holder with silicone liner (max. Ø 11 mm)



APLW 084 bottle neck holder

- Ø 28 mm
- for injector, Ø 6 mm

APLW 085 bottle neck holder

- Ø 33 mm
- for injector, Ø 6 mm

APLW 086 bottle neck holder

- Ø 45 mm
- for injector, Ø 6 mm



APLW 079 support

- Star supportØ 75 mm for injector, Ø 6 mm

APLW 078 nozzle cap

- CapØ 10 mm for injector, Ø 6 mm



APLW 088 holder

- Ø 105 mm H = 290 mm
- for injector, Ø 8 mm



APLW 090 holder

- Holder for pipettes
- Ø 20 mm
- Height: 21 mm

APLW 092 blanking stopper

Seal



APLW 091 holder

- Holder for pipettes
- Ø 25 mm
- Height: 13 mm



APLW 073 support

- Star support
- Ø 32 mm for injector, Ø 2.5 mm

APLW 074 support

- Conical support
 Ø 15 mm for injector, Ø 2.5 mm

APLW 075 nozzle cap

- Cap
 Ø 4 mm for injector, Ø 2.5 mm



APLW 076 support

- Star supportØ 54 mm for injector, Ø 4 mm

APLW 077 nozzle cap

- Cap

 Moderate C



APLW 087 support

- Stainless steel support • Ø 87 mm
- for injector, Ø 8 mm



APLW 089 adapter

- AdapterØ 6 mm adapter nipple
- for nozzle, Ø 8 mm

APLW 072 blanking screw

• For sealing nozzle connectors not in use



Pricing on any accessories shown can be found by keying the part number into the search box on our website.

The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct. If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.

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