

Innovation is our mission!

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HOSE CLAMP TOOL

ERGOTORQUE® socket screwdriver

- •6 point
- •Flexible
 •Limited torque
- Double spiral shaft · Plastic protective coating
- With hanging hole
- Chrome vanadium



	mm	D mm	L1 mm	L2 mm	L3 mm	L4 mm	9
911.1126	6	10.8	259.0	150.0	109.0	9.3	155
911.1127	7	11.7	259.0	150.0	109.0	10.0	155
911.1128	8	11.9	259.0	150.0	109.0	10.0	155
911.1125	10	12.5	279.0	170.0	109.0	14.3	170

ERGOTORQUE plus® socket screwdriver, extra long

- •6 point
- Flexible
- ·Limited torque
- Double spiral shaft Plastic protective coating
- Two component handle
- With hanging hole
- ·Chrome vanadium



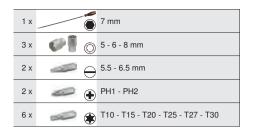
	mm	D mm	L1 mm	L2 mm	L3 mm	L4 mm	9
911.1175	5	11.9	614.0	114.0	614.0	8.9	270
911.1176	6	10.9	614.0	114.0	614.0	11.3	280
911.1177	7	11.7	614.0	114.0	614.0	11.3	280
911.1178	8	11.7	614.0	114.0	614.0	11.3	280

ERGOTORQUE® screwdriver set

- Flexible blade with double spiral shaft
- Limited torque
- Plastic protective coating Two component handle
- ·With hanging hole
- Contains also the most current 1/4" bits and sockets
- In display box



			kg
911.1180	16 pcs	ERGOTORQUE® screwdriver set	1.30
1 x _		O 1/4"	
1 x _		1/4"	



Hose clamp tension device

- For assembly and disassembly of hose clamps
- · Easy to use
- · Less space required
- Wear-resistant spindle drive
- Hand-wheel operation
 6-point and 1/4" drive
- Chrome molybdenum



	Ø mm	Ø mm	Span width mm	g	
115.0910	6-40	0-37	80	130	
115.0911	6-65	0-62	105	160	



Hose clamp gripping pliers

- Forged gripping jaws
- Serrated execution
 Size adjustment using the adjustment wheel
- Quick release leverEasy locking action
- For round and flat material
- Nickel plated
- Chrome vanadium





	Clamping range mm	L mm	g	
115.1126	18-36	175.0	231	
115.1127	18-54	230.0	420	

Hose clamp gripping pliers set

- Forged gripping jaws
- Serrated execution
 Size adjustment using the adjustment wheel
- Quick release lever
 Easy locking action
- For round and flat material
- Nickel plated
- Chrome vanadium







			g	
115.1125	2 pcs	175 - 230 mm	653	

Hose clamp pliers with prism reception

- For self-tensioning hose clamps with flat 3 pinch ends
- In particular for fuel lines, cooling and washing water hoses
 With prism attachment for spring clamps with flat adjoining
- Opening and closing the clamps without damage to the hose also in hard to reach places
- Self-opening
- Special steel

Application range: Audi, Mercedes, Toyota, Volkswagen etc.





		Clamping range mm	L mm	9	
115.11	87	8-18	195.0	189	

Hose clamp pliers

- Suitable for assembly and disassembly of spring clamps
- Optimal mounting due to special construction of jaws Includes locking mechanism and ratchet function
- PVC dipped handle
- · Simple handling
- · Special steel





- · Suitable for assembly and disassembly of spring clamps
- •90° angled
 •Optimal mounting due to special construction of jaws
- With offset side attachment nuts
 Includes locking mechanism and ratchet function
- •PVC dipped handle
- •Simple handling
- ·Special steel



	A mm	L mm	9	
115.1182	0-22	220.0	380	

Hose clamp pliers, angled

- •45° angled head
- With variable jaws
 For difficult to reach clamps
- •Includes locking mechanism
 •With PVC dipped handle
- •Chrome molybdenum





	A mm	C mm	L mm	9	
115.1042	0-65	55.0	220.0	210	

Hose clamp pliers, angled

- •90° angled head •With moveable jaws •For difficult to reach spring clamps
- Includes locking mechanismWith PVC dipped handle
- •Chrome molybdenum





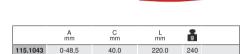
	Ø mm	A mm	L mm	g	
115.1198	18- 53	5-43	210.0	400	

Universal hose clamp pliers

- · Universal crown profile
- For difficult to reach clamps With PVC dipped handle
- Includes locking mechanismVersitile usage
- Chrome molybdenum







220.0

240

Hose clamp pliers

- Suitable for correct assembly and disassembly of spring clamps •Turnable jaws

- Includes ratchet functionEffortless opening and closing
- PVC dipped handle
- Special steel





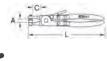
	A mm	L mm	9	
115.1167	15-56	275.0	400	

Hose clamp pliers

- PVC dipped handle
- For spring pipe clampsIncludes locking mechanism and ratchet function
- Chrome molybdenum









	A mm	C mm	L mm	g	
115.1046	0-45	37.0	220.0	230	



Hose clamp pliers, angled

- Suitable for correct assembly and disassembly of spring clamps
 •110° angled
 •Turnable jaws
 •With locking device
 •PVC dipped handle
 •Special steel



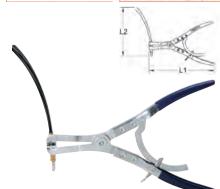


	A mm	L mm	g	
115.1173	6-58	250.0	400	

Hose clamp pliers with double bowden cable

- PVC dipped handle
- For spring pipe clamps
- 600 mm bowden cable Adjustable length bowden cable
- Includes locking mechanismFor difficult to reach clamps
- ·Special tool steel





	Ø mm	L1 mm	L2 mm		g	
115.1065	0 - 70	270.0	600.0	115.1065-1	540	

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Hose clamp pliers, VAG

- · Suitable for assembly or disassembly of spring clamps with
- reducing ends
 •With PVC dipped handle
- With 600 mm Bowden cable
 Includes ratchet function, locking mechanism and loosening
- Internal spring For difficult to reach spring clamps
- · Chrome molybdenum

Application range: VAG 2.0 TDI engines (BKD), especially suitably for hard to reach lower coolant hose





	Ø mm	L1 mm	L2 mm	g	
115.1169	0 - 60	260.0	600.0	500	

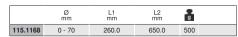
Hose clamp pliers with bowden cable

- ·With PVC dipped handle
- For spring pipe clamps •With 650 mm Bowden cable
- Includes ratchet function, locking mechanism and loosening
- lever
- Internal spring
 For difficult to reach spring clamps
- · Chrome molybdenum









Hose clamp pliers with bowden cable

- · Ideally suited for opening and closing hose clamps
- Suitable for hard to reach self-tensioning spring clamps
 With 590 mm strengthened Bowden cable
- Includes locking mechanism
 Internal spring
- •The torsion of the pliers is reduced with strong clamps
- With quick change system for Bowden cable replacement
 component handle
- ·Strengthened steel

Application range: MUBEA and NORMA







	Ø mm	L1 mm	L2 mm	_	g	
115.0901	15 - 54	260.0	730.0	115.0902	500	

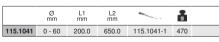
Hose clamp pliers with bowden cable

- For self-tensioning hose clamps
- •With locking mechanism
- In particular for fuel lines, cooling and washing water hoses
- With 650 mm Bowden cable
- With flat attachment for spring clamps with flat adjoining ends Opening and closing the clamps without damage to the hose
- also in hard to reach places
- · Self-opening
- · With PVC dipped handle
- Special steel











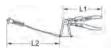
Spring band clamp pliers with gooseneck

- For actuation of self tensioning spring band clamps
- For cooling and heating systems
 Semi rigid, plastic coated gooseneck
- Convenient one handed operation in deep regions
 Fixing of the clamp by micro teeth
- Ideal for confined spaces
- Working head with raised grippers and wide opening
 Working head with slide guide and retraction spring
- With two component handleChrome molybdenum

Application area: NORMA FBS, MUB FBS-STD, FBS-RSV,









	Ø mm	L1 mm	L2 mm		g	
115.1190	18-54	220.0	660.0	115.1190-1	620	

Hose clamp pliers

- For the correct assembly and disassembly of spring clamps With 600 mm Bowden cable for hard to reach areas
- Step-less locking mechanism
 With quick-release lever
- Simple handling Special tool steel





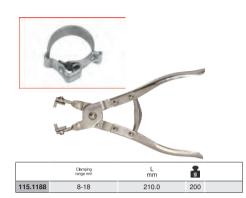
	Ø mm	L1 mm	L2 mm	9	
115.1189	0-50	210.0	600.0	330	

Hose clamp pliers with swivel prism reception

- · Suitable for the correct assembly and disassembly of Click,
- Click-R and Cobra clamps

 Also suitable for self-tensioning hose clamps with flat 3 pinch ends
- In particular for fuel lines, cooling and washing water hoses
- · With swivel prism attachment
- •Self-opening
 •Surface nickel-plated
- ·Special steel

Application range: Volkswagen, Audi, Mercedes, Toyota etc.



Click hose clamp pliers, angled

- · Suitable for the correct assembly and disassembly of Click, Click-R and Cobra clamps
 •Also suitable for self-tensioning hose clamps with flat 3 pinch
- ends •90° angled head
- Effortless opening and closing
- Forged bite iaws
- With PVC dipped handle
- ·Special steel



	A mm	L mm	6
115.1179	0-18	180.0	160

Click hose clamp pliers, forged

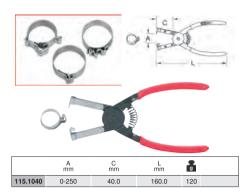
- Suitable for the correct assembly and disassembly of Click, Click-R and Cobra clamps
- Also suitable for self-tensioning hose clamps with flat 3 pinch ends
- ·Re-usable V2A-clamps
- With PVC dipped handle
 With self-opening mechanism
- •Chrome molybdenum



115.1045 0-38 25.0 180.0 215		A mm	C mm	L mm	g	
1000	115.1045	0-38	25.0	180.0	215	

Click hose clamp pliers

- · Suitable for the correct assembly and disassembly of Click, Click-R and Cobra clamps
- Also suitable for self-tensioning hose clamps with flat 3 pinch
- With PVC dipped handle
- · Self-opening
- Chrome molybdenum



Hose clamp pliers

- · With moveable jaws
- •45° angled head
- · Suitable for the correct assembly and disassembly of Click, Click-R and Cobra clamps
 •Also suitable for self-tensioning hose clamps with flat 3 pinch
- ends
- Suitable for narrow spaces
- Chrome molybdenum

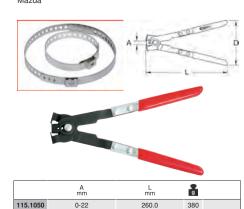




Hose clamp pliers, ear type

- •With PVC dipped handle
- · For the fitting of ear clamps
- •No sticking up of the ears during the press process
- •Uniform compressing of the ear piece •No damage to the sleeve
- · Nickel-plated finish
- Chrome molybdenum

Application range: Axle boots, coolant and fuel hoses for Volkswagen, Audi, Opel, BMW, Mercedes, Honda, Nissan and Mazda



Hose clamp pliers

- ·With PVC dipped handle
- With 3/8" drive for use with a torque wrench
 For the fitting and clamping of ear clamps
- •1/2" 4-point recess in the handle for use with torque wrench
 •Chrome molybdenum

Application range: Volkswagen, Opel, Seat, GM, Ford, Nissan, Mercedes, Mazda, Honda, Chrysler, BMW and Audi





	A mm	L mm	g	
115.1053	0-17	240.0	540	

lose clamp pliers for torque wrench

- ·Black plastic handle
- •3/8" drive for use with a torque wrench
- Enables clamping and/or copressing of the hose clamps
- · Suitable for the stainless steel hose clamps on drive shafts
- · Robust cast steel construction







	A mm	L mm	g	
115.1056	0-45	270.0	880	

lose clamp pliers

- PVC dipped handle
- For spring pipe clamps
 Includes locking mechanism and ratchet function
- Chrome molybdenum





	A mm	C mm	L mm	g	
115.1047	0-45	37.0	220.0	230	

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Fuel pipe clamp with Bowden cable for quick coupling

- For correct unbolting of fuel pipe coupling
- With locking mechanism
 Especially for fuel pipe couplings on which the unbolting elements are reached from the side
 •With 650 mm Bowden cable
- No damage to the compression coupling, fuel pipes and fuel hoses
- ·Quick and easy separation of the fuel pipes
- With PVC dipped handleMatt chrome
- · Special tool steel

Application range: Audi, Chrysler, Fiat, Opel, Renault, Mercedes, Volkswagen etc.





	Ø mm	L1 mm	L2 mm	_	9	
115.1060	0-20	290.0	670.0	115.1058	500	

Automotive hose clamp pliers set

- · Handle dip insulated
- Ideal for clamps low down in the engine
- Includes locking mechanism
- For self tensioning spring pipe clamps with 3 point mounting Self opening
- For opening and closing re/useable clic hose clamps, type Clic + Clic-R
 • For difficult to reach clamps
- ·Special tool steel

Application area: For connecting and removing fuel, immersed ventilation, coolant, washer water and vacuum hoses,

Application range: Volkswagen, Audi, Mercedes Benz, Toyota





			kg	
115.1104	4 pcs	Automotive hose clamp pliers set	1.12	
115.1104	4 pcs	Automotive hose clamp pliers set	1.12	

consists of:

		g	
115.1045	Hose clamp pliers (click type), 180mm	215	
115.1042	Hose clamp pliers (recessed/slot), 220mm	210	
115.1187	Hose clamp pliers with prism, 8-18mm	189	
115.1065	Hose clamp pliers (dbl bowden cable), 600mm	540	

Automotive hose clamp pliers set

- PVC dipped handle
- For opening and closing of cobra hose clamps
- Swivel pressed laws
- Includes locking mechanism and ratchet function
- · Self opening mechanism · For the dismantling and assembly of hose clamps
- Includes bowden cable · Chrome molybdenum







			kg	
115.1055	7 pcs	Automotive hose clamp pliers set	4.00	

		g	
115.1041	Hose clamp pliers (bowden cable), 650mm	470	
115.1042	Hose clamp pliers (recessed/slot), 220mm	210	
115.1043	Hose clamp pliers (crown profile), 220mm	240	
115.1044	Hose pliers, 195mm	190	
115.1045	Hose clamp pliers (click type), 180mm	215	
115.1046	Hose clamp pliers (recessed/slot), 220mm	230	
115.1047	Hose clamp pliers (dbl cross slot), 220mm	230	

Fuel pipe pliers for compression coupling

- For correct opening of fuel pipe coupling
- · Extra-flat iaws ends
- No damage to the compression coupling, fuel pipes and fuel
- •Quick and easy separation of the fuel pipes and fuel hoses
- Self-closing
 With PVC dipped handle
- · Special steel





	A mm	L mm	C mm	g	
115.1044	0-30	195.0	70.0	190	

HOSE PINCH TOOL

Hose clamp set

- For easy clamping of flexible hose parts from 10.0 mm (3/8")
- to 45.0 mm (1.3/4")
 Continuous flow rate regulation, sensitive flow rate regulation or complete flow rate stop
- The hose is crimped over a wide area against the sturdy steel cross, damage to the hose is therefore prevented
- With revolving clamp wing from metal Ideal for maintenance work with petrol, oil, water and radiator antifreeze

 • Protects from drips from petrol, oil, water and radiator
- antifreeze
- Ideally suitably for passenger cars, transporters, MPVs. commercial vehicles, tractors, agricultural and construction machinery and industrial uses
 • Temperature resistant up to 160°
- · Special steel



			å	
122.1200	4 pcs	Hose clamp set	420	

consists of:

		g	
122.1201	Hose clamp max. Ø 10 mm (3/8")	41	
122.1202	Hose clamp max. Ø 15 mm (1/2")	46	
122.1203	Hose clamp max. Ø 25 mm (1")	96	
122.1204	Hose clamp max. Ø 45 mm (1.3/4")	237	

Hose clamp pliers set

- •For simple clamping of flexible for hoses from 15.9 mm (5/8") up to 60.0 mm (2.3/8")
- · For stopping the flow
- The hose is a broad area squeezed against the stable support surface, damaging the hose is avoided
- · Variable adjustment with locking function
- · Ideal for maintenance work with gasoline, oil, water and antifreeze
- Protects against leakage of fuel, oil, water and antifreeze
- Ideal for use in passenger cars, vans and large vans, com-mercial vehicles, tractors, agricultural machinery, construction machinery and industrial applications

 • Heat resistant up to 160 ° C
- Plastic



				8
11	15.5050	3 pcs	Hose clamp pliers set	370

CONSISTS	UI.		
		g	
115.5052	Clamping pliers 150 mm for hoses up to Ø 15 mm	80	
115.5053	Clamping pliers 180 mm for hoses up to Ø 30 mm	130	
115.5054	Clamping pliers 250 mm for hoses up to Ø 60 mm	160	

Hose clamp pliers set 90° angled

- For simple clamping of flexible for hoses from 15.9 mm (5/8") up to 60.0 mm (2.3/8")

 • Angled design for use in confined spaces
- For stopping the flow
- •The hose is a broad area squeezed against the stable support surface, damaging the hose is avoided
- · Variable adjustment with locking function
- Ideal for maintenance work with gasoline, oil, water and antifreeze
- Protects against leakage of fuel, oil, water and antifreeze
- Ideal for use in passenger cars, vans and large vans, com-mercial vehicles, tractors, agricultural machinery, construction machinery and industrial applications

 •Heat resistant up to 160 ° C
- Plastic







			g	
115.5055	3 pcs	Hose clamp pliers set 90° angled	370	

consists of:

		g	
115.5057	Clamping pliers 90°, Ø 15mm	55	
115.5058	Clamping pliers 90°, Ø 30mm	95	
115.5059	Clamping pliers 90°, Ø 60mm	130	

ALLinONE Hose clamp pliers set

- •Simple sealing of pipe lines, 4.75 mm (3/16") to 14.0 mm (9/16")
- •Rotary magazine with 4 slots for the corresponding pipe size · Ideal for maintenance work with gasoline, oil, water and
- antifreeze
- · Protects against ingress of moisture and dirt
- · Ideal for use in passenger cars, vans and large vans, commercial vehicles, tractors, agricultural machinery, construction machinery and industrial applications
- Special plastic







		Ø mm	A mm	L mm	g	
122.1295	2 pcs	4,75-14	38.0	120.0	149	

consists of:

	х		g	
122.1296	2	ALLinONE Fluidstopper Ø 4,75 - 14 mm	60	
122.1297	1	Replaceable plastic plugs for 122.1296 pipe stopper pliers	50	

FUEL PIPE CLAMP PLIERS

Fuel pipe pliers for quick coupling

- For correct unbolting of fuel pipe coupling
- Especially for fuel pipe couplings on which the unbolting elements are reached from the side
- · No damage to the compression coupling, fuel pipes and fuel
- Quick and easy separation of the fuel pipes
- Self-openingSpecial steel



	Ø mm	Length mm	9	
115.1184	universal	124.0	45	

Fuel pipe pliers for quick coupling

- For correct unbolting of fuel pipe coupling
- No damage to the compression coupling, fuel pipes and fuel
- Quick and easy separation of the fuel pipes
- Curved design
- · With two component handle
- Matt chrome
- Special steel



	L mm	9	
115.1008	210.0	200	

Fuel pipe pliers

- •Two component handle
 •Cranked execution
- Integrated cutting edge
- For loosening and tightening on fuel lines that are difficult to reach
- No damage of the overflow pipeMatt chrome
- · Chrome vanadium

Ideally usably in security ring at fuel directions and change valve on BMW motorcycles with 2 valve technology Suitable e.g. for Volkswagen/Audi, Mercedes Benz, Ford, Opel, Peugeot, Volvo, Daihatsu, Mazda and Toyota.





	Α	L1	L2	S	2	
	mm	mm	mm	mm	g	
115.1067	0-75	200.0	75.0	15,0	220	

Return hose pliers

- Angled design
- With integrated cutting edge
 For attaching and pulling out of pipes on low sunken nozzles
- · No damage to the overflow pipe
- With two component handle
- · Matt chrome
- Chrome vanadium

Application range: Audi, Mercedes, Volkswagen, etc.



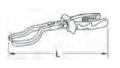


	Ø mm	A mm	L mm	g	
115.2112	7,0	0-68	190.0	220	

uel pipe pliers for quick coupling

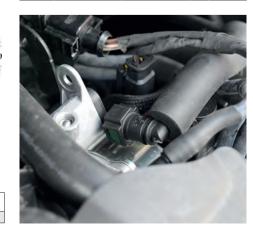
- · For correct unbolting and bolting of fuel pipe coupling
- · With the special tip pliers the interlock can be moved forward (locked) and backwards (unlocked).
- No damage to the compression coupling, fuel pipes and fuel hoses
- Quick and easy separation of the fuel pipes
- Curved design
- With two component handle
- Matt chrome
- · Special steel







	Ø	L mm	g	
115.0900	0-105	230.0	310	



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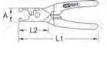
Fuel pipe pliers for quick coupling

- For correct unbolting of fuel pipe coupling
- Especially for fuel pipe couplings on which the unbolting elements are reached from the side
- No damage to the compression coupling, fuel pipes and fuel hoses
- Quick and easy separation of the fuel pipesWith PVC dipped handle
- Matt chrome
- Special tool steel

Application range: Audi, Chrysler, Fiat, Opel, Renault, Mercedes, Volkswagen, etc.









	A mm		L2 mm	g	
115.1094	0-30	160.0	50.0	220	



Fuel pipe pliers for quick coupling

- •For correct unbolting of fuel pipe coupling
- •No damage to the compression coupling, fuel pipes and fuel
- · Quick and easy separation of the fuel pipes
- · Angled design for use also in confined spaces
- With PVC dipped handle
- Painted black
- Aluminium





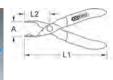
A mm		L1 mm	L2 mm	g	
115.1099	0-24	220.0	39.0	280	

Universal fuel pipe pliers for compression coupling

- For correct opening of fuel pipe coupling
- •Extra flat jaws ends
- No damage to the compression coupling, fuel pipes and fuel
- Quick and easy separation of the fuel pipes and fuel hoses
- · Self-closing
- · With PVC dipped handle
- · Special steel

Application range: Audi, Citroën, Fiat, Ford, Mercedes, Peugeot, Renault, Volkswagen, etc.









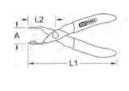
	Ø mm	A mm	L1 mm	L2 mm	9
115.1091	8,0	20,0	120.0	35.0	80
115.1092	10,0	22,0	120.0	35.0	80

Opel/GM fuel pliers for compression coupling

- •For correct opening of fuel pipe coupling
- Extra flat jaws ends
- •With two noses 6.5 mm x 6.0 mm
- · No damage to the compression coupling, fuel pipes and fuel
- •Quick and easy separation of the fuel pipes and fuel hoses
- Self-closing
 With PVC dipped handle
- Special steel

Application range: Opel/GM, Chevrolet, Buick, Pontiac









Fuel pipe pliers set

- For correct opening of fuel pipe coupling
- •Extra flat jaws ends
- No damage to the compression coupling, fuel pipes and fuel
- Quick and easy separation of the fuel pipes and fuel hoses
- · Self-closing
- With PVC dipped handle
- Special steel

Application range: Audi, Citroën, Fiat, Ford, GM, Mercedes, Opel, Peugeot, Renault, Volkswagen, etc.





			g	
115.1090	3 pcs	Fuel pipe pliers set	310	

consists of:

		g	
115.1091	Fuel pipe connection Pliers Ø 8 mm, blue	80	
115.1092	Fuel pipe connection Pliers Ø 10 mm, green	80	
115.1093	Fuel pipe connection Pliers GM-Opel, red	80	

PIPE COUPLING UNLOCKING TOOL

Pipe connection release clip set for CLIC spring closing pipe coupling

- For the assembly and disassembly of hard to open CLIC spring closure pipe coupling for fuel, air-conditioning, air and hydraulic pipes
- No damage to the compression coupling, fuel pipes and fuel hoses
- Quick and easy separation of the pipes
- Ideally suited to passenger cars, transporters and MPVs
- Suitable for metric couplings
- · Special plastic

Application range: Mitsubishi, Honda, Volvo, Nissan





	Ø			
115.1095	6 pcs	6 - 8 - 10 - 12 - 15 - 16	60	

Pipe connection release clip set for CLIC spring closing

- For the assembly and disassembly of hard to open CLIC spring closure pipe coupling for fuel, air-conditioning, air and hydraulic pipes
- No damage to the compression coupling, fuel pipes and fuel hoses
- · Quick and easy separation of the pipes
- Ideally suited to passenger cars, transporters, MPVs, commercial vehicles, tractors, agricultural and construction machinery
- For almost all pipe connections on European, Asian and American vehicle types
 • Suitable for metric and imperial couplings
- Special plastic

Application range: Chrysler, Ford, GM, Daihatsu, Honda, Mercedes, Mitsubishi, Nissan, Opel, Saab, Scania, Volvo, Volkswagen, etc.





		Ø mm	g	
115.1089	7 pcs	6,35 (1/4") - 7,9 (5/16") - 9,5 (3/8") - 12,7 (1/2") - 15,9 (5/8") - 19,0 (3/4") - 22,2 (7/8")	90	

consists of:

		9	
115.1261	Unlocking clip, 1/4"	1	
115.1262	Unlocking clip, 5/16"	1	
115.1263	Unlocking clip, 3/8"	1	
115.1264	Unlocking clip, 1/2"	5	
115.1265	Unlocking clip, 5/8"	7	
115.1266	Unlocking clip, 3/4"	8	
115.1267	Unlocking clip, 7/8"	9	

Disassembly tool set for CLIC spring closure pipe

- For the disassembly of hard to open CLIC spring closure pipe
- coupling for fuel, air-conditioning, air and hydraulic pipes
 •No damage to the compression coupling, fuel pipes and fuel hoses
- Quick and easy separation of the pipes
 Ideally suited to passenger cars, transporters, MPVs,
- commercial vehicles, tractors, agricultural and construction machinery
- For almost all pipe connections on European, Asian and American vehicle types
- · Suitable for metric and imperial couplings
- Aluminium

Application range: Chrysler, Ford, GM, Daihatsu, Honda, Mercedes, Mitsubishi, Nissan, Opel, Saab, Scania, Volvo, Volkswagen, etc.



250

115.1285 6 pcs 7,9 (5/16") - 9,5 (3/8") - 12,7 (1/2") - 15,9 (5/8") - 19,0 (3/4") - 22,2 (7/8")

consists of

		g	
115.1274	Unlocking-Ring, 5/16", aluminum gold, oil and fuel lines, etc	35	
115.1275	Unlocking-Ring, 3/8", aluminum blue, oil and fuel lines, etc	36	
115.1276	Unlocking-Ring, 1/2", aluminum yellow, oil and fuel lines, etc	36	
115.1277	Unlocking-Ring, 5/8", aluminum green, oil and fuel lines, etc	41	
115.1278	Unlocking-Ring, 3/4", aluminum black, oil and fuel lines, etc	42	
115.1279	Unlocking-Ring, 7/8", aluminum red, oil and fuel lines, etc	43	
115.1282	Replacement-Rubber ring-Set, 6- pcs for Unlocking-Rings	1	

MASTER pipe connector release clip set for CLIC spring clamp pipe coupling

- •For the assembly and disassembly of hard to open CLIC spring closure pipe coupling for fuel, air-conditioning, air and hydraulic pipes
- No damage to the compression coupling, fuel pipes and fuel hoses
- · Quick and easy separation of the fuel pipes
- Ideally suited to passenger cars, transporters, MPVs, commercial vehicles, tractors, agricultural and construction
- For almost all pipe connections on European, Asian and American vehicle types
- Suitable for metric and imperial couplings
- Special plastic

Application range: Air-conditioning, fuel and air lines as well as hydraulics lines





.



			kg	
115.1260	22 pcs	MASTER pipe connector release clip set for CLIC spring clamp pipe coupling	1.00	

consists of:

		g	
115.1261	Unlocking clip 1/4", plastic white, for air conditioning and fuel lines	1	
115.1262	Unlocking clip 5/16", plastic white, for air conditioning and fuel lines	1	
115.1263	Unlocking clip 3/8", plastic white, for air conditioning and fuel lines	1	
115.1264	Unlocking clip 1/2", plastic white, for air conditioning and fuel lines	5	
115.1265	Unlocking clip 5/8", plastic white, for air conditioning and fuel lines	7	
115.1266	Unlocking clip 3/4", plastic white, for air conditioning and fuel lines	8	
115.1267	Unlocking clip 7/8", plastic white, for air conditioning and fuel lines	9	
115.1268	Unlocking clip open 5/16", steel black, hydraulic lines	37	
115.1269	Barrel-Unlocking with spring, red 3/4", Air conditioning lines 3/8" Nominal size: 6er	12	
115.1270	Barrel-Unlocking with spring, blue 1/2", Air conditioning lines 3/8" Nominal size: 8er	13	
115.1271	Barrel-Unlocking with spring, black 5/8", Air conditioning lines 3/8" Nominal size: 10	12	
115.1272	Barrel-Unlocking with spring, white 3/4", Air conditioning lines 3/8" Nominal size: 12	12	
115.1273	Double Unloking Ring, 5/16"x3/8", for use on air conditioning lines	54	
115.1274	Unlocking-Ring, 5/16", aluminum gold, oil and fuel lines, etc	35	
115.1275	Unlocking-Ring, 3/8", aluminum blue, oil and fuel lines, etc	36	
115.1276	Unlocking-Ring, 1/2", aluminum yellow, oil and fuel lines, etc	36	
115.1277	Unlocking-Ring, 5/8", aluminum green, oil and fuel lines, etc	41	
115.1278	Unlocking-Ring, 3/4", aluminum black, oil and fuel lines, etc	42	
115.1279	Unlocking-Ring, 7/8", aluminum red, oil and fuel lines, etc	43	
115.1280	Lever -Release open 5/16", Steel black	84	
115.1281	Fork plug-Unlocking, metal black	15	
115.1282	Replacement-Rubber ring-Set, 6- pcs for Unlocking-Rings	1	

PIPE WRENCH

Double open ring injection spanner

- · Special length and design
- · For the assembly and disassembly of hard-to-reach injection pipes
- Makes possible simple and time-saving work
- · Wrench has single-sided head
- Open 12-point Matt finish
- Chrome vanadium

Application range: Audi, Volkswagen, Škoda, etc. e.g. for 1.6 l 4 cyl., 2.0 | 5 cyl., 2.4 | 6 cyl. diesel engines







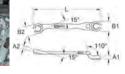


CHROMEplus® open double ring spanner, with flexible

- ·Special length and design
- For the assembly and disassembly of hard-to-reach injection, fuel and hydraulic pipes
- Makes simple and time-saving work possible
- Ring 15° angledOpening 15° cranked
- ·with joint
- Open 6-point
- Chrome plated and mirror polished Chrome vanadium

Application range: Audi, Volkswagen, Škoda, Opel, etc.







	mm	A1 mm	A2 mm	B1 mm	B2 mm	L mm	g	
518.0378	8	7.0	7.0	18.0	18.0	128.0	50	
518.0379	9	7.0	7.0	18.0	18.0	128.0	50	
518.0380	10	7.0	7.0	18.0	18.0	128.0	50	
518.0381	11	9.0	9.0	22.0	22.0	148.0	120	
518.0382	12	9.0	9.0	22.0	22.0	148.0	120	
518.0383	13	11.0	11.0	26.0	26.0	175.0	140	
518.0384	14	11.0	11.0	26.0	26.0	175.0	140	
518.0387	17	13.0	13.0	32.0	32.0	190.0	200	
518.0389	19	13.0	13.0	32.0	32.0	190.0	200	
518.0391	22	16.0	16.0	37.0	37.0	218.0	300	
518.0392	24	16.0	16.0	40.0	40.0	235.0	372	
518.0393	27	17.0	17.0	45.0	45.0	270.0	433	

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CHROME plus® open double ring spanner set, with flexible

- ·Special length and design
- •For the assembly and disassembly of hard-to-reach injection, fuel and hydraulic pipes
- Makes simple and time-saving work possible
 Ring 15° angled
 Opening 15° cranked

- · with joint
- Open 6-point
- Chrome plated and mirror polished Chrome vanadium

Application range: Audi, Volkswagen, Škoda, Opel, etc.





			9	
518.0350	3 pcs	10 - 11 - 12 mm	240	
518.0360	5 pcs	8 - 9 - 10 - 11 - 12 mm	420	
518.0370	3 pcs	14 - 17 - 19 mm	620	



T-handle box wrench

- •6 point •T-handle
- Matt finish
- ·Chrome vanadium



	mm	L mm	B mm	g	
517.1181	8,0	300.0	200.0	310	
517.1182	9,0	300.0	200.0	300	
517.1183	10,0	300.0	200.0	310	
517.1184	11,0	300.0	200.0	320	
517.1185	12,0	300.0	200.0	320	
517.1186	13,0	300.0	200.0	330	
517.1187	14.0	300.0	200.0	310	

T-handle box wrench set

- •6 point
- T-handle
- Matt finish
- Chrome vanadium





			kg	
517.1180	7 pcs	T-handle box wrench set	2.50	

consists of:

		9	
517.1181	T-handle box wrench, 8mm	310	
517.1182	T-handle box wrench, 9mm	300	
517.1183	T-handle box wrench, 10mm	310	
517.1184	T-handle box wrench, 11mm	320	
517.1185	T-handle box wrench, 12mm	320	
517.1186	T-handle box wrench, 13mm	330	
517.1187	T-handle box wrench, 14mm	310	

Injector pipe wrench

- •12-point
- For screw fitting to injection pipes Chrome plated and mirror polished

Application range: Mercedes 100, 130, 314, 360, 360h, 352A, 346/355, 401, 402, 403, 407h, 615, 616, 617



•				
	mm	Length mm	9	
152,1401	17.0	80.0	150	

Open box head spanner

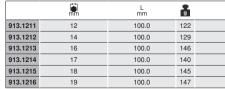
- •12-point
- Internal square drive to DIN 3120/ISO 1174 with ball reception
- Special length and design
 For almost all common vehicle types
- For the assembly and disassembly of hard-to-reach injection pipes
 • Makes possible simple and time-saving work

- With opening Special steel

Application range: Audi, BMW, Chrysler, Ford Opel,







Open box head spanner set

- •12-point
- Internal square drive to DIN 3120/ISO 1174 with ball reception

- Special length and design
 For almost all common vehicle types
 For the assembly and disassembly of hard-to-reach injection pipes
 • Makes possible simple and time-saving work
- With opening
- Special steel
- In durable plastic storage case

Application range: Audi, BMW, Chrysler, Ford Opel, Mercedes, etc.







			kg	
913.1210	6 pcs	12 - 14 - 16 - 17 - 18 - 19 mm	1.13	

consists of:

		g	
913.1211	Open box head spanner, 10mm	122	
913.1212	Open box head spanner, 14mm	129	
913.1213	Open box head spanner, 16mm	146	
913.1214	Open box head spanner, 17mm	140	
913.1215	Open box head spanner, 18mm	145	
913.1216	Open box head spanner, 19mm	147	

INJECTOR NOZZLE TOOL

Injector-socket

- •12-point
- Ideal for assembly and disassembly of injectors
- Internal square to DIN 3120/ISO 1174 with ball reception
- · For manual operation
- Matt finish
- Chrome vanadium

Application range: Volkswagen Polo 1.3 l Diesel-Motor, Nissan Terrano TD 25, 27 from 1988



	mm	D1 mm	D2 mm	L mm	g
150.2311	22	31.0	25.0	85.0	170

Injector-socket

- •12-point
- Ideal for assembly and disassembly of injectors
 Internal square to DIN 3120/ISO 1174 with ball reception
- · For manual operation
- Matt finish
- ·Chrome vanadium

Application range: for diesel engines Volkswagen, Audi, Mercedes, Opel, Ford, Peugeot, Volvo, Toyota, Mazda, Nissan, Mitsubishi, Daihatsu, etc.



Injector-socket

- •12-point
- Ideal for assembly and disassembly of injectors
 Internal square to DIN 3120/ISO 1174 with ball reception
- For manual operation
- Matt finish
- ·Chrome vanadium

Application range: for diesel engines Volkswagen, Audi, Mercedes, Opel, Ford, Peugeot, Volvo, Toyota, Mazda, Nissan, Mitsubishi, Daihatsu, etc.



Injector-socket

- •6-point
- Ideal for assembly and disassembly of injectors
 With side window and opening for connection to nozzle head (E-connection)
- Internal square to DIN 3120/ISO 1174 with ball reception
- For manual operation
- Burnished
- ·Special steel

Application range: PSA, Ford, Toyota



Injector-socket

- 6-point
- · Ideal for assembly and disassembly of injectors
- With side window and opening for connection to nozzle head (E-connection)
- Internal square to DIN 3120/ISO 1174 with ball reception
- · For manual operation
- Burnished
- · Special steel

Application range: 2.0 I DW 10 HDI engines, etc.



Injector-socket

- •6-point
- · Ideal for assembly and disassembly of injectors
- · With side window and opening for connection to nozzle head (E-connection)
- Internal square to DIN 3120/ISO 1174 with ball reception
- · For manual operation
- Burnished
- Special steel

Application range: DCI and HDI engines, etc.



- •6-point
- · Ideal for assembly and disassembly of injectors
- · With side window and opening for connection to nozzle head (E-connection)
- Internal square to DIN 3120/ISO 1174 with ball reception
- ·For manual operation
- Burnished
- ·Special steel

Application range: Renault, Nissan, 1.9 I F9Q engines, etc.



Injector-socket set

- 6-point
- · Ideal for assembly and disassembly of injectors
- With side window and opening for connection to nozzle head (E-connection)
- Internal square to DIN 3120/ISO 1174 with ball reception
- For manual operation
- Burnished
- ·Special steel
- In durable plastic storage case



CO	nsi	st	S	o

		g	
150.2391	1/2" injector-socket, 25,0 mm	300	
150.2307	1/2" injector-socket, 27,0 mm	280	
150.2308	1/2" injector-socket, 29,0 mm	340	
150.2309	1/2" injector-socket, 30,0 mm	360	

Injector-socket

- 12-point
- Ideal for assembly and disassembly of injectors
 Internal square to DIN 3120/ISO 1174 with ball reception
- · With a side window for guiding the cable of the motion sensor and the return pipe
- For manual operation
- Phosphate
 Chrome molybdenum

Application range: Ford Mondeo from 10/2000 - 02/2007, 2.0 DI, -TDCI, -TDDI, 2.2 TDCI; Ford Transit from 01.2000 - 05/2006, 2.0 DI, -TDCI and 2.4 DI, -TDCI



	mm	D1 mm	D2 mm	L mm	g		
150.9541	21	32.0	34.0	90.0	300		

Injector-socket

- •12-point
- Ideal for assembly and disassembly of injectors Internal square to DIN 3120/ISO 1174 with ball reception
- · With a side window for guiding the cable of the motion sensor and the return pipe
- For manual operation
- Burnished

Application range: Alfa Romeo, Chrysler, Rover, MAN 2.5TD



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Diesel injector socket

- •6 point

- Special socket key for dismantling and assembly of injectors
 Correct easy and damage free usage
 Internal square to DIN 3120 / ISO 1174 with ball reception • Ideally suited for commercial vehicles, light commercial, SUV,
- ·Black, tempered surface
- ·Special steel

Application range: Mercedes Benz, Motor 604 / 605 / 606







	mm	L mm	9	
455.0034	22	110.0	250	

Diesel injector socket

- •12 point

- 12 point
 Special socket key for dismantling and assembly of injectors
 Correct easy and damage free usage
 Internal square to DIN 3120 / ISO 1174 with ball reception
 Ideally suited for commercial vehicles, light commercial, SUV,
- · Black, tempered surface
- Special steel

Application range: Mercedes Benz Actros, Motor 457 / 541 / 542, Ford Maverik 2,7 TDI, Nissan Terrano TD 2,5L / 2,7L, Opel Corsa 1,5D / 1,7 TD, Isuzu







	mm	L mm	9	
455.0033	22	80.0	250	

Diesel injector socket

- Special socket key for dismantling and assembly of injectors
- Correct easy and damage free usage
 Internal square to DIN 3120 / ISO 1174 with ball reception
 Ideally suited for commercial vehicles, light commercial, SUV,
- etc
 •Black, tempered surface
- ·Special steel

Application range: Suitable for diesel engines from Fiat, Ford, Mercedes Benz and Volkswagen (vans and passenger cars),







Diesel injector socket

- •12 point

- Special socket key for dismantling and assembly of injectors
 Correct easy and damage free usage
 Internal square to DIN 3120 / ISO 1174 with ball reception
 Ideally suited for commercial vehicles, light commercial, SUV,
- · Black, tempered surface
- Special steel

Application range: MAN 6 cylinder in line D 0226, Chrysler Voyager, Jeep Cherokee, Opel Frontera VM 41 B, Rover, Landrover Discovery Motor VM 2,5L TD





	mm	L mm	9	
455.0031	28	78.0	250	

Diesel injector socket set

- · Special socket key for dismantling and assembly of injectors
- Correct easy and damage free usage
 Internal square to DIN 3120 / ISO 1174 with ball reception
- Ideally suited for commercial vehicles, light commercial, SUV,
- ·Black, tempered surface
- Special steel
- In durable plastic storage case

Application range: MAN, Mercedes Benz Transporter and commercial vehicles, Opel, Fiat, Volkswagen, Ford, Nissan, etc.







			kg	
455.0030	4 pcs	Diesel injector socket set	1.10	

consists of:

		g	
455.0031	1/2" Diesel injector socket 12 point, 28mm	250	
455.0032	1/2" Diesel injector socket 12 point, 27mm	250	
455.0033	1/2" Diesel injector socket 12 point, 22mm	250	
455.0034	1/2" Diesel injector socket 6 point, 22mm	250	

Injector-socket with bore hole

- · Hexagon socket with bore hole
- · Ideal for assembly and disassembly of Common Rail couplings
- Internal square to DIN 3120/ISO 1174 with ball reception
- For manual operation
- Chrome plated and mirror polished
- Chrome vanadium

Application range: Bosch injectors in DCI and HDI engines,







	mm	D mm	L mm	T mm	g	
152.1057	10	22.0	75.0	35.0	100	

- •6-point
- · Ideal for assembly and disassembly of injectors
- · With side window and opening for connection to nozzle head (F-connection)
- Internal square to DIN 3120/ISO 1174 with ball reception
- External drive hexagonal socket 22.0 mm For manual operation
- Burnished
- Special stee
- Application range: PSA, Ford, Toyota



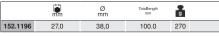


1/2"	1			111	
	mm	Ø mm	Total length mm	9	
152.1195	25,0	37,0	100.0	270	

- •6-point
- · Ideal for assembly and disassembly of injectors
- With side window and opening for connection to nozzle head (E-connection)
- Internal square to DIN 3120/ISO 1174 with ball reception
- External drive hexagonal socket 22.0 mm For manual operation
- Burnished · Special steel
- Application range: 2.0 I DW 10 HDI engines, etc.







Injector socket

- •6-point
- · Ideal for assembly and disassembly of injectors
- · With side window and opening for connection to nozzle head (E-connection)
- •Internal square to DIN 3120/ISO 1174 with ball reception
- Opened design
- ·For damage-free assembly and disassembly
- Tempered surface
- ·Special steel

Application range: Mercedes A- and B-Class, Fiat 1.3MJ





	Ä	Ø mm	Total length mm	9	
152.1058	29,0	42,0	78.0	274	

Injector socket

- •6-point
- · Ideal for assembly and disassembly of injectors
- With side window and opening for connection to nozzle head (F-connection)
- Internal square to DIN 3120/ISO 1174 with ball reception
- •External drive hexagonal socket 22.0 mm
- · For manual operation
- Burnished
- ·Special steel

Application range: Mercedes A- and B-Class, Fiat 1.3MJ



	mm	Ø mm	Total length mm	9	
152.1197	29,0	42,0	100.0	342	

Injector socket

- · Ideal for assembly and disassembly of injectors
- With side window and opening for connection to nozzle head (E-connection)
- Internal square to DIN 3120/ISO 1174 with ball reception
- •External drive hexagonal socket 22.0 mm
- · For manual operation
- Burnished
- ·Special steel

Application range: Renault, Nissan, 1.9 | F9Q engines, etc.





	mm	Ø mm	Total length mm	g	
152.1198	30,0	43,0	100.0	358	

FUEL FILTER TOOL

Diesel filter bit socket

- · Ideal for releasing and tightening of fuel, coolant and central reinforcement screws

 • Also suitable for brass injector inserts
- · Makes simple and time-saving work possible
- · Ideal length for pump injector engines
- Hexagon socket
- In accordance with DIN 7422
- Internal square drive to DIN 3120/ISO 1174 with ball reception
- Matt finish
- Chrome vanadium

Application range: Audi, Seat, Škoda and Volkswagen



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100

Fuel filter wrench for 2.0/2.2 HDI engines

11.0

13,0

- Special for 2.0/2.2 HDI
- Ideal for releasing and fastening diesel filters
 Makes simple and time-saving work possible
- Internal square drive to DIN 3120/ISO 1174
- Matt finish

911.1961

911.1963

• Chrome vanadium

Application range: Citroën, Ford, Fiat, Lancia, Land Rover, Mitsubishi, Peugeot, Volvo, etc.







	mm	L mm	g	
150.3195	27	42.0	140	

Fuel filter removal tool for JTD engines

- Ideal for releasing and fastening fuel filter covers
- · Necessary for the removal and installation of the fuel filter
- cover when changing the fuel filter insert
- Makes precise torque installation possible
- · Prevents damage to the fuel filter housing and the mounting ring
- · Makes simple and time-saving work possible
- Internal square drive to DIN 3120/ISO 1174
 Matt finish
- Chrome vanadium

Application range: Alfa Romeo, Chevrolet, Citroën, Fiat, Lancia, Peugeot, Saab, Suzuki, Opel





			9	
150.3113	2 pcs	Fuel filter removal tool for JTD engines	548	

consists of:

		9	
150.3114	1/2" diesel filter case wrench	223	
150.3124	Diesel filter clamping device	322	

Fuel filter wrench for Volvo 2.4D/2.4D5 engines

- · Ideal for releasing and fastening fuel filter covers
- · Necessary for the removal and installation of the fuel filter cover when changing the fuel filter insert
- Makes precise torque installation possible
- · Prevents damage to the fuel filter housing and the mounting ring
- Makes simple and time-saving work possible
 Internal square drive to DIN 3120/ISO 1174
- Matt finish
- Chrome vanadium

Application range: Volvo (e.g. S60, S80, V70, XC70, XC90 with 2.4D and 2.4D5 engines)





	Ø mm	9	
150.3121	82,0	200	

Fuel filter wrench for PSA HDI engines

- · Ideal for releasing and fastening fuel filter covers
- Necessary for the removal and installation of the fuel filter cover when changing the fuel filter insert
- Makes precise torque installation possible
- · Prevents damage to the fuel filter housing and the mounting ring
- Makes simple and time-saving work possible Internal square drive to DIN 3120/ISO 1174
- Matt finish
- · Chrome vanadium

Application range: Citroën, Peugeot, Renault, etc.





Ømm		9	
150.3122	109,0	245	

Wrench for VAG fuel pumps

- · Ideally suited to assembly and disassembly of fuel pumps
- Internal square in accordance with DIN 3120/ISO 1174
 Special profile
- Aluminium
- Application range: Audi, Seat, Skoda, Volkswagen



				-
	Ø mm	Length mm	g	
150.3179	100	390.0	700	

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Oil filter wrench Ø 109.0 mm / 6 grooves

- For the quick and professional installation and dismantling of
- the oil filter cover when changing the oil filter insert

 •Use according to the manufacturer's specification for torque
- Suitable for left and right side operation
 Internal square drive to DIN 3120 ISO 1174
- · For manual operation
- Painted surface

Application range: Fiat, Alfa Romeo, Lancia, Opel, etc.





Fuel filter wrench for Mercedes CDI engines

- · Ideal for releasing and fastening fuel filter covers
- · Necessary for the removal and installation of the fuel filter cover when changing the fuel filter insert

109

380

- Makes precise torque installation possible
 Prevents damage to the fuel filter housing and the mounting
- Makes simple and time-saving work possible
- •Internal square drive to DIN 3120/ISO 1174
- Matt finish

150.9383

· Chrome vanadium

Application range: Mercedes CDI engines



	Height mm	Length mm	9	
150.3134	70.0	112.0	240	

Fuel filter wrench for PSA HDI engines

- Ideal for releasing and fastening fuel filter covers
- Necessary for the removal and installation of the fuel filter
- cover when changing the fuel filter insert
- Makes precise torque installation possible
 Prevents damage to the fuel filter housing and the mounting
- · Makes simple and time-saving work possible
- •Internal square drive to DIN 3120/ISO 1174
- · Matt finish

Application range: Citroën, Peugeot, Renault, etc.



Grooves		Ø	g	
150.9398	8	109,0	480	

Universal fuel filter pliers with flexible jaws

- · Ideally suited to releasing and tightening the fuel filter cover on hard-to-reach filters.
- Necessary for the removal and installation of the fuel filter cover when changing the fuel filter insert

 • Multi-adjustable, two-stage pliers opening makes a large
- working area possible

 Double-sided 90° jaws, adjustable in 4 positions (45° steps)
 Retaining claws on the jaws prevent slipping when changing
- Prevents damage to the fuel filter housing and the mounting
- Makes simple and time-saving work possible
- •With PVC dipped handle
- Phosphate
- Chrome vanadium





	Ø mm	Length mm	9	
150.3129	57,0-120,0	325.0	640	

Fuel filter removal bar for UFI filters

- · Ideal for releasing and fastening UFI fuel filter covers
- Necessary for the removal and installation of the fuel filter cover when changing the fuel filter insert
- Multi-adjustable, six-stage lever adjustment opening makes a large working area possible
- Flexible rotary magazine adapter with diverse attachments for corresponding use
- Prevents damage to the fuel filter housing and the mounting Prevents leakages which may cause engine damage when
- coming into contact with the timing belt
- Makes simple and time-saving work possible
- Matt finish
- · With PVC handle and anchor
- Special tool steel

Application range: Audi, Seat, Škoda and Volkswagen (2.0 l







	Length mm	Spare adaptor	9	
150.3126	420.0	150.3127	480	



TANK SENDER WRENCH

2-jaw universal fuel gauge sender unit key

- · With 6 point drive
- Ideal for releasing and tightening the fuel filter locking ring from the tank sender to the fuel tank
- Makes simple and time-saving work possible
- Adjustable
- Chrome plated and mirror polished
- Chrome vanadium



	mm	Ø mm	9	
150.9384	24	80,0 - 120,0	400	
150.9385	24	110,0 - 170,0	460	

2-jaw fuel sender unit key set

- ·With 6 point drive
- Ideal for releasing and tightening the fuel filter locking ring from the tank sender to the fuel tank
- Makes simple and time-saving work possible
- Adjustable
- Chrome plated and mirror polished
- Chrome vanadium





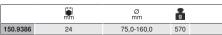
consists of

		_	
		g	
150.9384	Fuel gauge sender unit key small, adjusta- ble, 80-120 mm	400	
150.9385	Fuel gauge sender unit key 2 arm, adjusta- ble, capacity 110 - 170 mm	460	

3-jaw universal fuel gauge sender unit key

- With 6 point drive
- Ideal for releasing and tightening the fuel filter locking ring from the tank sender to the fuel tank
- Makes simple and time-saving work possible
- Adjustable
- Chrome plated and mirror polished
- Chrome vanadium





3-jaw fuel gauge and pump sender collar wrench

- •With 6 point drive
- Ideal for releasing and tightening the fuel filter locking ring from the tank sender to the fuel tank
- Makes simple and time-saving work possible
 No damage to the ring by the tool
- · Makes work in tight gaps possible
- · Less space required
- Quick adjustments
- ·Special steel tool





	mm	Ø mm	9	
150.9388	16	87,0 - 170,0	960	

Fuel sender wrench for Mercedes W210

- ·With two pins
- With 6 point drive
 Ideal for releasing and tightening the fuel filter locking ring from the tank sender to the fuel tank on the Mercedes W210 (E Class)
- Makes simple and time-saving work possible
- · Special tool steel

Application range: Mercedes W210 (E Class)



	mm	L mm	g	
150.9389	17	80.0	120	

Fuel sender wrench for Mercedes W202

- •With 6 point drive Ideal for releasing and tightening the fuel filter locking ring
- from the tank sender to the fuel tank on the Mercedes W202 (C Class)
- Makes simple and time-saving work possible
- •With four pins
 •Special tool steel

Application range: Mercedes W202 (C Class)



	mm	Ø mm	9	
150.9399	24	108	820	

TEST DEVICE

Compression test set

- · For quick and exact compression pressure testing of petrol engines
 • Includes shock-proof precision manometer diameter
- Suitable for 14 mm and 18 mm spark plug threads
- Very flexible tube for hard-to-reach places
- Display: psi; kg/cm²
 Universal usage



			g	
152.2067	2 pcs	Compression test set	440	

consists of:

		9	
152.2068	Compression manometer 0-20 bar	320	
152.2069	Adapter	40	

Compression tester set, digital

- For quick and exact compression pressure testing of petrol and diesel engines
- · Quick and compact coupling to all adapters
- Includes shock-proof precision manometer diameter 75.00 mm 0 - 20 bar
- Very flexible tube for hard-to-reach places
- Display: bar, psiIncludes 1x 9 V block battery as standard
- Universal usageIn durable plastic storage case





			kg	
152.2030	7 pcs	Compression tester set, digital	1.10	

		9
152.2031	Compression manometer 0-20 bar	240
152.2032	Adapter M 10 x 1.0	10
152.2033	Adapter M 12 x 1.25	10
152.2034	Adapter M 14 x 1.25	12
152.2036	Hose, I = 450 mm	120
152.2037	Pressure pipe with rubber cap, straight	120
152.2038	Pressure pipe with rubber cap, angled	120

Compression pressure test set for diesel engines

- Important tool for engine diagnosis
- For identifying wear and leaks on piston rings
 Compression pressure test up to 70 bar (1000 psi) possible
- Quick coupling in either straight or angled set up
 Due to the variety of the adapter further applications such as
- car, wagon, ship and agricultural petrol and diesel engines
- · For a long life in daily workshop use
- In durable plastic storage case

Application range: Alfa Romeo, BMW, Chrysler, Daewoo, Fiat, Ford, Hyundai, Isuzu, Land Rover, Mazda, Mercedes, Mitsubishi, Nissan, Opel, PSA, Renault, Saab, Suzuki, Toyota, VAG, Vauxhall, Volvo, etc.





			kg	
150.3660	36 pcs	Compression pressure test set for diesel engines	4.22	

consists of:

	Type		g
150.3661		Manometer with hose, 0-1000 psi, Ø 70 mm	550
150.3662	#1	Glow plugs adapter, M 12 x 1.25 with external thread, length 47 mm	26
150.3663	#2	Glow plugs adapter, M 12 x 1.25 with external thread, length 55 mm	29
150.3664	#3	Glow plugs adapter, M 12 x 1.25 with external thread, length 87 mm	46
150.3665	#4	Injector adapter, M 10 x 1.25 with external thread, length 70 mm	27
150.3666	#5	Injector adapter, M 10 x 1.25 with external thread, length 57 mm	23
150.3667	#6	Injector adapter, M 10 x 1.25 with external thread, length 70 mm	28
150.3668	#7	Injector adapter, M 10 x 1.25 with external thread, length 82 mm	32
150.3669	#8	Injector adapter, M 10 x 1.25 with external thread, length 170 mm	66
150.3670	#9	Glow plugs adapter, M 10 x 1.25 with external thread, length 120 mm	42
150.3671	#10	Injector adapter, M 10 x 1.25 with external thread, length 132 mm	47
150.3672	#11	Glow plugs adapter, M 10 x 1.25 with external thread, length 70 mm	27
150.3673	#12	Glow plugs adapter, M 10 x 1.0 with external thread, length 83 mm	29
150.3674	#13	Glow plugs adapter, M 10 x 1.0 with external thread, length 74 mm	26
150.3675	#15	Glow plugs adapter, M 10 x 1.0 with external thread, length 75 mm	27
150.3676	#16	Glow plugs adapter, M 10 x 1.0 with external thread, length 99 mm	34
150.3677	#17	Glow plugs adapter, M 10 x 1.0 with external thread, length 108 mm	37
150.3678	#18	Glow plugs adapter, M 10 x 1.0 with external thread, length 75 mm	26
150.3679	#19	Glow plugs adapter, M 10 x 1.0 with external thread, length 135 mm	53
150.3680	#20	Glow plugs adapter, M 10 x 1.0 with external thread, length 175 mm	66
150.3681	#21	Glow plugs adapter, M 8 x 1.0 with external thread, length 120 mm	36
150.3682	#26	Injector adapter, length 133 mm	78
150.3683	#27	Injector adapter, M 22 x 1.5, length 92 mm	174
150.3684	#28	Injector adapter, M 24 x 1.5, length 80 mm	151
150.3685	#29	Injector adapter, M 20 x 1.5, length 65 mm	85
150.3686	#30	Injector adapter, M 24 x 2.0, length 72 mm	167
150.3687	#31	Injector adapter with seal, Ø 14 mm	100
150.3688	#32	Injector adapter with seal, Ø 6 mm	97
150.3689	#33	Injector adapter with seal, Ø 17 mm	41
	_		
150.3690	#34	Injector adapter with seal, Ø 14 mm	76
150.3691	#35	Injector adapter with seal, Ø 7 mm	38
150.3692	#36		201
150.3693	#37	Small bridges	38
150.3694	#38	Medium bridges	65
150.3695	#39	Large bridges	88
150.3696	В	Angle piece	44

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Cylinder leak detector tester set

- For diagnosis of compression pressure loss
- Suitable for analysing inlet and outlet valves, piston rings or cylinder liner, cylinder head or head seal
- Better alternative for compression measurement
- · Universal usage
- Integrated pressure reducer
- Necessary working pressure: 1.0 bar
 For use on engines at operating temperature
- In durable plastic storage case

Test results:

Outlet valves not tight:

Air noises in exhaust, manifold and cylinder head on the outlet

Inlet valves not tight:

Air noises in intake, on cylinder head on the inlet side

Piston rings, pistons, cylinder bore damaged:

Air noises on the crankcase breather or on the diostick

Cylinder head seal defective:

Air noises in the adjacent cylinder, spark plug bore

Cylinder head seal defective or tear in cylinder head Air noises or bubble formation in the cooling system or reservoir



			kg	
150.1780	9 pcs	Cylinder leak detector tester set	2.30	

consists of:

	est device with dual display: Input pressure -7 bar + pressure loss display 0-100%	570	
150.1782 Ho	ose 14/18 mm	132	
150.1783 Ho	ouse with adaptor	108	
150.1784 Ad	dapter M10 x 1.0 mm	280	
150.1785 Ad	daptor M12 x 1.25 mm	310	
150.1786 Ad	dapter M14 x 1.25 mm	330	
150.1787 Ad	dapter M14 x 1.25 mm, long design	550	
150.1788 Sp	park plug adapter M12 x 1.25 mm	251	
150.1789 Sp	park plug adaptor M14 x 1.25 mm	255	

Low fuel pressure diagnosis set

- · Ideal for the quick and easy testing of low pressure circuit (flow pressure and return pressure measurement)
- · Quick to find leaks
- · Fits all common vehicles
- •The pressure loss inspection is carried out via the manometer •Quick and efficient use
- \bullet For the diagnosis of the following basic tests: the supply of fuel from the tank, air bubbles in the fuel system, impurities
- In durable plastic storage case

Application range: Commercial vehicles, transporters and MPVs



			kg	
150.1845	15 pcs	Low fuel pressure diagnosis set	4.00	

consists of:

	X		g	
150.1846	2	Adapter hose Ø 6.0 mm, 2 m long	320	
150.1847	1	Manometer 1.0 - 5.0 bar incl. connection nipple and safety cover	140	
150.1848	1	Manometer 1.0 - 15.0 bar incl. con- nection nipple and safety cover	140	
150.1849	1	T-piece SAE 8 x 20 mm (red)	100	
150.1851	1	T-piece SAE 9.5 x 20 mm (grey)	100	
150.1852	1	T-piece SAE 10 x 20 mm (green)	120	
150.1853	1	T-piece SAE 10 x 30 mm (blue)	120	
150.1854	1	T-piece NG8 Type 246 (white)	100	
150.1855	1	T-piece Ø 6.0 mm (brown)	60	
150.1856	1	T-piece Ø 8.0 mm (orange)	60	
150.1857	1	T-piece Ø 10.0 mm (purple)	60	
150.1858	1	T-piece 11.8 x 25 mm (light blue)	140	
150.1859	2	T-piece SAE 8 x 30 mm (yellow)	100	

Fuel system testing and cleaning set

- Makes possible quick, simple and correct operation of the engine, without using the tank fitted to the vehicle
- Suitable for diagnosing faults between the tank and high-pressure tank, fuel filter, etc.
- · Ideal for fuel systems to release soiling and gunk in the injection system with an exact mix of fuel/cleaning agent
- In durable plastic storage case

Application range: Universally suitable for all vehicles with a naturally aspirated engine





			kg	
150.1860	43 pcs	Fuel system testing and cleaning set	8.00	

	Х		g	
150.1861	1	10 litre container	1000	
150.1661	1	Hand pump with male coupling	280	
150.1862	2	Adapter hose Ø 8.0 mm, 4 m long	650	
150.1864	1	Adapter set 3 part SAE 8 x 20 mm (red)	120	
150.1865	1	Adapter set 3 part SAE 8 x 30 mm (yellow)	120	
150.1866	1	Adapter set 3 part SAE 9.5 x 20 mm (grey)	120	
150.1867	1	Adapter set 3 part SAE 10 x 20 mm (green)	120	
150.1868	1	Adapter set 3 part SAE 10 x 30 mm (blue)	160	
150.1869	1	Adapter set 3 part NG8 Type 246 (white)	120	
150.1870	1	Adapter set 3 part Ø 6.0 mm (light blue)	200	
150.1871	1	Adapter set 3 part Ø 8.0 mm (pink)	180	
150.1872	1	Adapter set 3 part Ø 10.0 mm (purple)	100	
150.1873	1	Adapter set 3 part 11.8 x 25 mm (brown)	80	
150.1874	1	Adapter set 3 part NG12 Type 246 (orange)	100	
150.1875	1	Adapter set 3 part Ø 12.0 mm (black)	140	
150.2324	2	Double-sided adapter 3/8", short	36	
150.2323	1	Double-sided quick coupling 3/8"	74	

- Professional test assortment to the misdiagnosis through measurement of the return stroke quantities of high pressure injectors
- Measurement of up to 8 high pressures Injectors simultaneously possible
- · Ideal supplement to the engine diagnosis device
- Diesel sutible silicone tubes
- Tube end with coupling and original adapter for safe connection
- Double sealed brass connections in the test tube
- · Stable acrylic test block with filling line scale
- Precise measurement result through 25 ml volumetric capacity in the test tube
- · In durable plastic storage case

Application range: Mercedes, BMW, Ford, Renault, Opel, Vauxhall, Toyota, Nissan, Citroen, Volvo, Peugeot etc.





150.1580 65 pcs Common rail injector test assortment with 8 measurement pipes 3.16				kg	
	150.1580	65 pcs	Common rail injector test assortment with 8 measurement pipes	3.16	

consists of:

COHSISIS	٠			
	Х		9	
150.1581	1	Acrylic-Block	800	
150.1582	8	Silicone tube 5,2 x 8,8 x 600 mm	40	
150.1583	8	O-Ring 16 x 1,3 mm	1	
150.1584	8	Adapter to acrylic block with O ring	24	
150.1594	8	Adaptor for Bosch	10	
150.1595	8	Adaptor for-Siemens	10	
150.1596	8	Adaptor for Denso	10	
150.1597	8	Adaptor for Delphi	10	
150.1598	8	Double nipple Adaptor for Bosch	30	
150.1599	8	Fast fastener coupling	30	



Master fuel injection system pressure test set for petrol

- Ideal for quick and reliable pressure testing on all common
- injection systems of petrol engines
 •For simple testing of fuel pumps, system pressure sensors and tightness
- Suitable for mechanical and electrical petrol injection systems
- For almost all common, European, Asian and American vehicle types
- •Includes shock-proof, large precision manometer Ø 100.00 mm, 0 - 10 bar with rubber cover •Includes shock-proof, small precision manometer Ø 75.00
- mm, 0 1 bar especially for the central injection with rubber cover
- Compact quick couplings to all adapters and hoses
- Replacement washers (20 pieces) are available in the set
- •In durable plastic storage case

Application range / injection systems: Bosch K-Jetronic, Bosch L/LH-Jetronic, Bosch Motronic, Bosch Motronic-Jetronic, MPFI, TBI, Eci, MPi, EFI, EGI, PGM-Fi, DIGIFANT 1/2, CIS-Digital, Weber CFI, Spi, Singlepoint, Multipoint, Multec SPi, EFI, Simtec EFI, 1-Tec, Magent Marelli G5/G6 Mono, Weber-Marelli 1AW, CFI, Volkswagen 1AW, R Electronc etc.



			kg	
150.2325	42 pcs	Master fuel injection system pres- sure test set for petrol engines	4.00	

consists	of:				
	х	Type		g	
150.2326	1	Α	Manometer Ø 100.0 mm, 0 - 10 bar with 1/4" quick coupling	360	
150.2327	1	В	Manometer Ø 75.0 mm, 0 - 1 bar with 1/4" quick coupling	202	
150.2328	2	GA	Adapter piece M14x1.5 internal thread and 1/4" hose connection	41	
150.2329	2	GT	Adapter piece M16x1.5 internal thread and 1/4" hose connection	39	
150.2340	1	GS	Double-sided adapter piece 5/8"x18 internal thread	28	
150.2341	2	GV	Adapter piece 5/8"x1.8 external thread and 1/4" hose connection	26	
150.2342	2	GU	Adapter piece M16x1.5 external thread and 1/4" hose connection with sealant ring	48	
150.2343	2	GB	Adapter piece M14x1.5 external thread and 1/4" hose connection with sealant ring	39	
150.2344	1	GC	Connection adapter piece M14x1.5 external thread and 16 mm hexagon with sealant ring	37	
150.2345	1	AE	Adapter piece (long) M8x1.0 external thread and 1/4" hose connection with sealant ring	70	
150.2346	1	AB	Dual adapter piece M16x1.5 internal and external thread and 3/8" hose connection	65	
150.2347	1	AA	Dual adapter piece M14x1.5 internal and external thread and 3/8" hose connection	65	
150.2348	1	AI	Adapter piece M10x1.0 external thread and 1/4" hose connection with sealant ring	35	
150.2349	1	AJ	Adapter piece M10x1.0 internal thread and 1/4" hose connection	21	
150.2360	1	но	Hollow bolt M8x1.0 and 1/4" hose connection	22	
150.2361	1	HN	Hollow bolt M6x1.0 and 1/4" hose connection	19	
150.2362	1	G	Manometer connection hose with 1/4" hose connection with valve for Bosch CSI and GM TBI systems	110	
150.2363	1	w	Manometer connection hose with 1/4" hose connection for Ford EFI systems	324	
150.2364	1	F	Manometer connection hose with 1/4" hose connection for universal use with 3/8" and 5/16" high-pressure hose connections	160	

consists of

	X	Type		g	
150.2365	1	С	Adapter hose for small Schrader valve 5/16"x32 UNF internal thread and 1/4" hose connection	95	
150.2366	1	D	Manometer connection hose with 1/4" hose connection in- cluding pressure release valve, transparent hose	110	
150.2367	1	E	Adapter hose for standard Schrader valve 7/16"x20 UNF internal thread and 1/4" hose connection	116	
150.2368	1	x	Manometer 5/16" quick coupling connection hose with 1/4" hose connection for Ford EFI systems	40	
150.2369	1	XA	Manometer 5/16" quick cou- pling connecting hose with 1/4" hose connection for GM TBI systems	55	
150.2650	2	AM	Adapter piece M8x1.0 external thread and 1/4" hose connection with sealant ring	13	
150.2651	2	AK	Adapter piece M12x1.5 internal thread and 1/4" hose connection	24	
150.2652	1	AL	Adapter piece M8x1.0 internal thread and 1/4" hose connection	22	
150.2653	1	AC	Dual adapter piece M14x1.25 internal and external thread and 1/4" hose connection	63	
150.2654	1	AG	Adapter piece (long) M8x1.0 internal thread and 1/4" hose connection	64	
150.2655	1	НА	Adapter piece (long) for 1/4", 3/8", 1/2" hoses and 1/4" hose connection	51	
150.2656	1	HE	Hollow bolt M14x1.5 and 1/4" hose connection	28	
150.2657	1	HR	Hollow bolt M12x1.5 and 1/4" hose connection	38	
150.2658	1	HQ	Hollow bolt M12x1.25 and 1/4" hose connection	33	
150.2659	1	HP	Hollow bolt M10x1.0 and 1/4" hose connection	29	
150.2661	1		Replacement sealant ring packet 20 Pieces	10	

Diesel injector test device set 0-600 bar

- Table device for the testing of diesel injectors for opening pressure, density and jet shape
- During testing the fluid is injected back in to the storage tank with spray guard
- Pump lever (400 mm) can be moved for easier pumping • Drag indicator stays still for injection pressure, therefore it is
- not required, to monitor the nozzle jet and the manometer at the same time
- Fluid container volume 330 cm³
- Piston displacement 35 cm³
 Bolted precision manometer Ø 100.0 mm with protective
- rubber parts 0-600 bar
- Includes two high pressure pipe adapters Device body made from sturdy metal cast
- Test container from shock-proof and diesel resistant plastic
- Feet (118 mm x 97 mm) with four bore holes for sturdy mounting onto work bench

For testing the following methods:

Jet free or blocked

Opening pressure Jet nozzle pattern/nebulisation

Clasp drip behaviour

Acoustic inspection (chattering)

Density of the pressure tube between injection pump and nozzle

Application range:

M12 x 1.25 VAG TDI engines



	H mm	kg	
455.0120	345.0	2.90	

consists of:

		g	
455.0121	Connection pipe M14 x M14, 210 mm	80	
455.0122	Connection pipe M14 x M12, 210 mm	72	
455.0123	Diesel injector test device 0-600 bar	2700	

Oil pressure testing equipment

- · For the diagnosis of leaks in the oil system
- Compact quick coupling to all adapters
 Includes shock-proof precision manometer diameter 75.00
- Very flexible tube for hard-to-reach places
- Replacement washers are available in the set
- Universal usageIn durable plastic storage case





			kg	
150.1920	12 pcs	Oil pressure testing equipment	1.89	

		9	
150.1921	Manometer with tube, 10 bar	594	
150.1922	90° Adaptor angled	44	
150.1920-1	Screw adaptor no 1, R1/8"	23	
150.1920-10	Screw adaptor no 10, M18 x 1.5	34	
150.1920-2	Screw adaptor no 2, 1/8" x 27 NPT	24	
150.1920-3	Screw adaptor no 3, 1/4" x 18 NPT	33	
150.1920-4	Screw adaptor no 4, 3/8" x 20 UNF	23	
150.1920-5	Screw adaptor no 5, 1/2" x 20 UNF	27	
150.1920-6	Screw adaptor no 6, M10 x 1.0	24	
150.1920-7	Screw adaptor no 7, M12 x 1.5	24	
150.1920-8	Screw adaptor no 8, M14 x 1.5	29	
150.1920-9	Screw adaptor no 9, M16 x 1.5	33	

TRANSFER PUMPS

Mini transfer pump

- Ideal aid for transferring in emergencies
 Suitable for battery acid, fuels, oils and distilled water
 The hoses are attached to the balloon holder using supplied hose clamps
- Acid-resistant
- · Special plastic



Tube inner Ø mm		tube length mm	9	
150.1665	8.0	2 x 900	320	

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Transfer pump

- Ideal aid for easy transferring and pumping
- · Suitable for battery acid, fuels, oils and distilled water
- Acid-resistant
- With high quality pump body and reinforced pump handle
- · Special plastic





	Tube inner Ø mm	tube length mm	9	
150.1660	12.0	2 x 1.300	465	

FILLING DEVICE AND AIR VENT DEVICE

Diesel air venting / pre-filling set

•Makes the air venting of many diesel fuel systems possible





			9	
150.9030	7 pcs	Diesel air venting / pre-filling set	700	

consists of:

		g	
150.9031	Hose with pump	250	
150.9032	Connection piece PSA, 8 mm	50	
150.9033	Connection piece PSA, 10 mm	24	
150.9034	Connection piece Ford	52	
150.9035	Connection piece Renault, GM, Fiat, large	66	
150.9036	Connection piece Renault, GM, Fiat, small	48	
150.9037	Connection piece GM	53	

Diesel filling and air venting device for diesel fuel

- · Ideal for clean, quick and simple air venting and filling of
- diesel filter in the pre-installed state
 Suitable for all diesel vehicles and also direct injectors
- Can be used when changing filter, on tanks that have been run empty, on tanks with incorrect fuel inside
 Applicable in pre-installed state eliminates inconvenient
- filling out of the vehicle
- Connection carried out on the diesel engine inlet to the engine
- Using a pneumatic connection and actuation of the hand lever a vacuum is created in the diesel filter filling and exhaust device (Venturi effect) therefore sucking out fuel
- Includes universal suitable silicone hose assortment Ø 8-9.5-12 mm
- With high-quality pump housing and strengthened pump head The suction hose is resistant to diesel and brake fluid
- •With quick coupling system for easy hose exchange
- Polyethylene

Application range: Audi/Volkswagen pump nozzle engines, Diesel direct injectors such as e.g. Mercedes CDI engines, Ford, Opel, BMW, PSA HDI engines, Fiat, etc.







Technical data:

6-10 bar Capacity: 1.81 180 l/min Max. flow rate:

		H mm	kg	
150.9355	11 pcs	300.0	1.60	

consists of:

		9	
150.9356	Diesel filter filling and exhaust base device	885	
150.9355-1	PU hose 8.0 x 12.0 mm x 1.5 mm	125	
150.9355-2	Quick coupling adapter PU hose 8.0 x 12.0 mm x 1.5 m	20	
150.9355-3	PU hose 6.5 x 9.5 mm x 1.5 mm	83	
150.9355-4	Quick coupling adapter for PU hose 6.5 x 9.5 mm x 1.5 m	20	
150.9355-5	PU hose 4.0 x 8.0 mm x 1.5 mm	73	
150.9355-6	Quick coupling adapter for PU hose 4.0 x 8.0 mm x 1.5 m	8	
150.9355-7	Silicone hose 8.0 x 12.0 mm x 15 cm	23	
150.9355-8	Silicone hose 6.0 x 9.0 mm x 15 cm	14	
150.9355-9	Suspension chain	31	
150.9355-24	Sealant ring (between container and head)	7	

Vacuum fluid extractor suction pump 9.5 litre

- · Ideal for quick, clean and simple suction, intake and emptying
- of fluids
 Suitable for engine oil, transmission oil, hydraulic oil, brake fluid, water, etc.
- For pneumatic use with a compressor or manual use with the integrated hand pump
- · Select a suitable probe and suck easily using the vacuum principle
- Suction process automatically stopped when housing is full, preventing fluids from spilling over
- With integrated pressure relief valve for more safety
 With high-quality pump housing and strengthened pump head
- Includes 4 probes for different uses
- Ideally suited to hard-to-reach places thanks to the included, long suction hose
- •The suction hose is resistant to petrol and oil
- Polyethylene

Application range: Passenger cars, transporters and MPVs, commercial vehicles, tractors, agricultural and construction machinery, industrial uses







Technical data:

5-11,5 bar Work pressure: Capacity: 9.51 Operating temperature +0°C to +55°C Filling tube length: 1.5 m Max. flow rate 125 l/min

			kg		
	160.0790	5 pcs	Vacuum fluid extractor suction pump 9.5 litre	5.00	

onsists of:

COHSISIS	01.		
		g	
160.0791	Vacuum fluid extractor suction pump 9.5 litre	3708	
160.0792	Adaptor and tube 4x8mm x1,5m	200	
160.0793	Main probe 7.8 x 9.8 mm x 1 m	200	
160.0794	Probe 5.3 x 6.7 mm x 1 m	200	
160.0795	Probe 3.5 x 4.5 mm x 1 m	200	



A PICTURE IS WORTH A THOUSAND WORDS...





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