



MARBED[®]
PROFESSIONAL DIESEL SERVICE TOOLS

110



MARBED[®]
PROFESSIONAL DIESEL SERVICE TOOLS

catalog
test bench equipment

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MARBED
CATALOG

test bench equipment

110



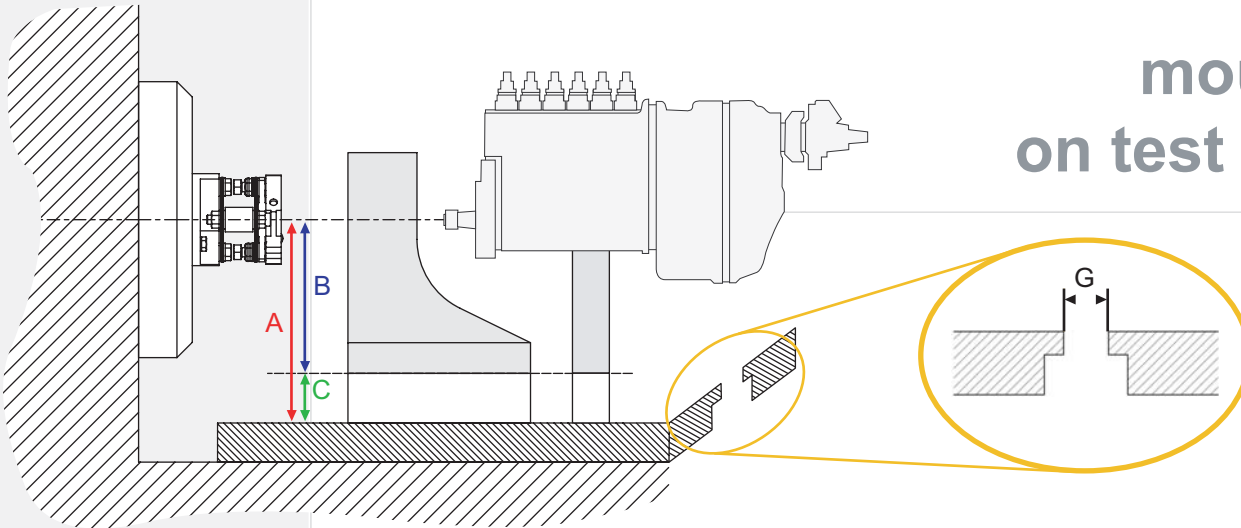
www.marbed.com










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Pump mounting on test bench



G		20					16
A		125	146,5	170	180,5	200	130
B				125			130
C		0	21,5	45	55,5	75	0
	optional spacer	-	 9644	 9644-A	 9425-A	 9074	-
1		9680-A BH 1 688 101 101 BH 1 688 010 124 ISO normative bench cradle - axle 120 - slide 20					9679-A
2		9422-B Bracket for PE..H pumps flanged					9422-BR
3		9590 BH 1 688 030 030/33 BH 1 685 720 160 PES...P pumps bracket couple for BOSCH test bench- flange Ø 95					-
4		9141 BH 1 688 030 030/33 BH 1 685 720 159 PES...P pumps bracket couple for BOSCH test bench- flange Ø 107					-
5		9085 BH 1 688 120 022 Bed to fix B pumps on test bench					-

G		20					16
A		125	146,5	170	180,5	200	130
B				125			130
C		0	21,5	45	55,5	75	0
	optional spacer	-	 9644	 9644-A	 9425-A	 9074	-
6		9422 BH 1 688 030 141 BH 1 688 030 032 <i>PE..P pumps</i>					-
7		9422-A BH 1 688 030 170 <i>PE..H, PE..R pumps</i>					-
8		8124 BH 1 688 030 186 <i>VP44 pumps (AUDI)</i>					-
9		9423 BH 1 688 030 153 <i>P..800.. pumps</i>					-
10		9081 BH 1 688 030 044 <i>A pumps</i>					-
11		9084 BH 1 688 030 012 <i>B pumps</i>					-

Pump clamping flanges



9680-A

BH 1 688 010 124

Clamping bracket
on test bench



9601

BH 0 986 611 358

Clamping bracket
on **9260**



9356-A

Clamping bracket
on **8132**



Test bench flange for PES...A pumps
(on FIAT)

9478-B

BH 1 685 720 017

Test bench flange for PES...P-PV pumps
with \varnothing 95 hole

9478-C

BH 1 685 720 060

Test bench flange for PES...P pumps
(IVECO 190.26)
with \varnothing 107 hole

9479-D

BH 1 685 720 159

Test bench flange for PES... MW pumps
(MERCEDES, VOLVO etc.)
with \varnothing 68 hole

9478-A

BH 1 685 720 018

Test bench flange for EP/VA.. VE.. CAV pumps
with \varnothing 50 hole

9478

BH 1 685 720 062

Test bench flange for DPS pumps
with \varnothing 68 hole

9478-E

BH 1 685 720 219

Test bench flange for VP44-VR30 pumps

8123

Test bench flange for VP44 pumps

9478-T

Test bench flange for CATERPILLAR pumps SLIV series
with \varnothing 95 hole

9478-F

Test bench flange for pumps mounted on
RENAULT MEGANE

9478-M

Test bench flange for pumps mounted on
MERCEDES

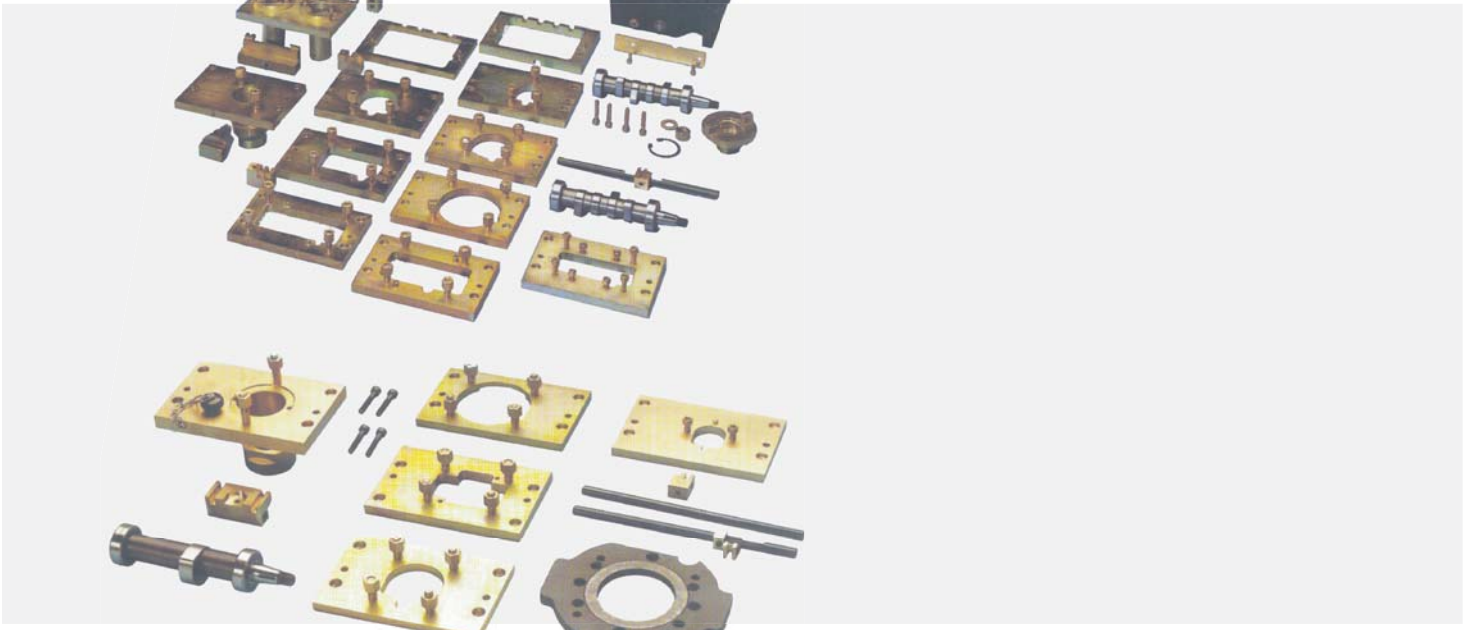
9746

BH 1 685 720 208



MARBED[®]
PROFESSIONAL DIESEL SERVICE TOOLS

Immersed pumps clamping



Tools for the following application

9562-W

in 1 box

W

9562-KW

in 2 boxes

KW

9562-KWY

in 3 boxes

KWY

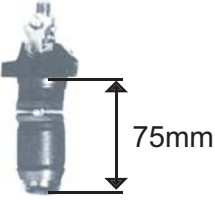
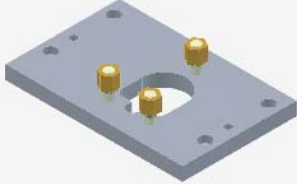

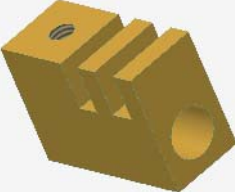
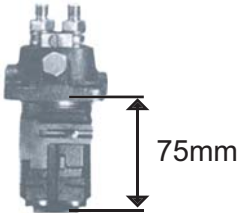
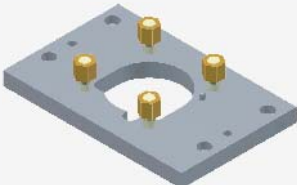

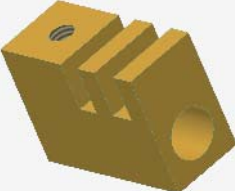
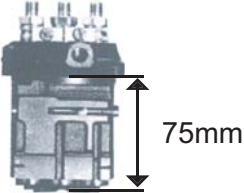
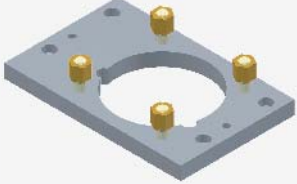

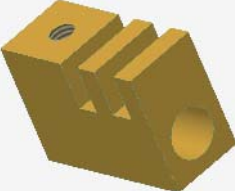
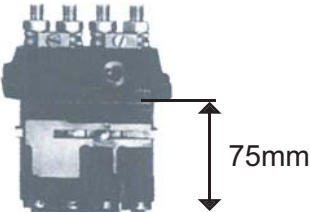
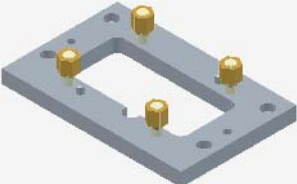

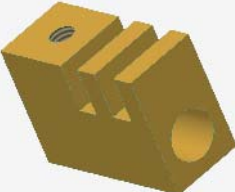
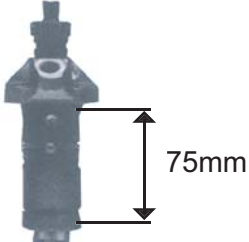


BOSCH PFRK 1 cyl
BOSCH PFRK 2 cyl
BOSCH PFRK 3 cyl
BOSCH PFRK 4 cyl

BOSCH 1 cyl - other
STANADYNE 1 cyl
BOSCH Q
ZEXEL 2 cyl
ZEXEL 3 cyl
ZEXEL 4 cyl
MINI 2-3-4 cyl

MINI 1 cyl
YANMAR 2 cyl
YANMAR 3 cyl
YANMAR 3 cyl
PFM1P

for the part numbers and the specific application, see the following table


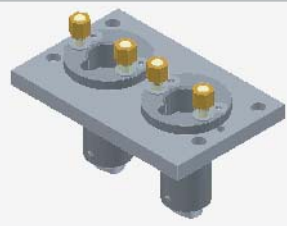


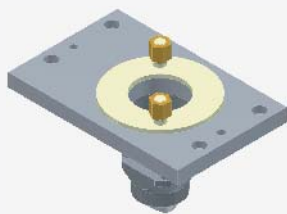


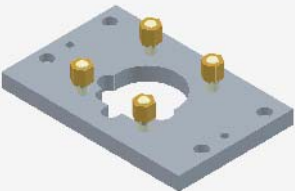

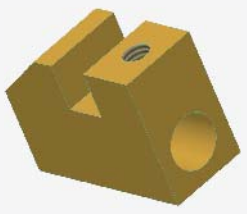

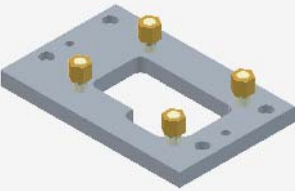

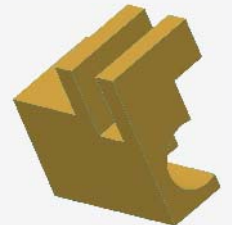

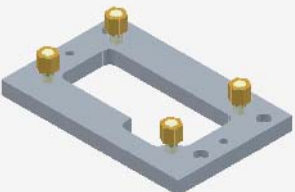

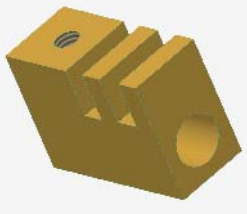


	PUMP	PLATE	ROD	ROD GUIDE
1	 BOSCH PFRK 1 cyl	 9562-A	 9562-F	 9562-G
2	 BOSCH PFRK 2 cyl	 9562-C	 9562-F	 9562-G
3	 BOSCH PFRK 3 cyl	 9562-D	 9562-F	 9562-G
4	 BOSCH PFRK 4 cyl	 9562-E	 9562-F	 9562-G
5	 BOSCH 1 cyl - Other	 9562-B	 9562-F	included in 9562-B

Configuration

SPACER PLATE	CAMBOX	ALBERO	COUPLING	APPLICATION
 <p>9562-M4</p>	 <p>9562-M1</p>	 <p>9564-A</p>	 <p>9576</p>	
 <p>9562-M4</p>	 <p>9562-M1</p>	 <p>9564-A</p>	 <p>9576</p>	
 <p>9562-M4</p>	 <p>9562-M1</p>	 <p>9564-A</p>	 <p>9576</p>	
 <p>9562-M4</p>	 <p>9562-M1</p>	 <p>9564-A</p>	 <p>9576</p>	
 <p>9562-M4</p>	 <p>9562-M1</p>	 <p>9564-A</p>	 <p>9576</p>	

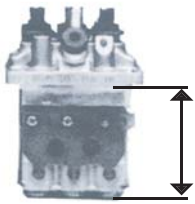
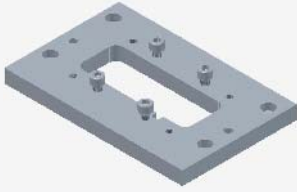

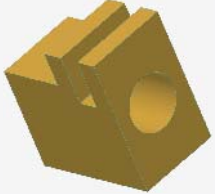

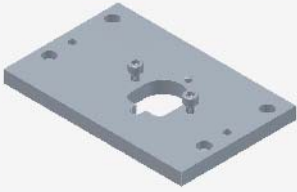

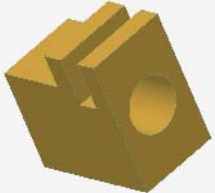

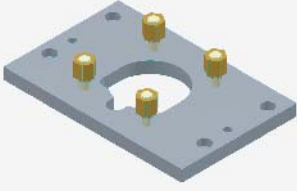
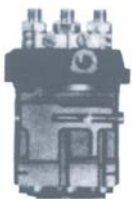
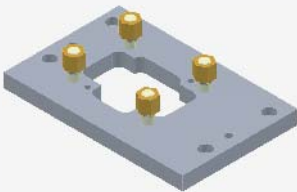

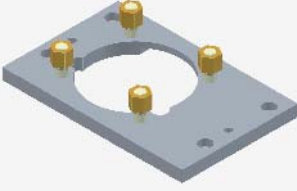


	PUMP	PLATE	ROD	ROD GUIDE
6	 <p>75mm</p> <p>STANADYNE 1 cyl</p>	 <p>9562-M3</p>	 <p>9562-F</p>	<p>included in 9562-M3</p>
7	 <p>75mm</p> <p>BOSCH Q</p>	 <p>9563</p>	 <p>9562-F</p>	<p>included in 9563</p>
8	 <p>68mm</p> <p>ZEXEL 2 cyl</p>	 <p>9891</p>	 <p>9562-F</p>	 <p>9562-R</p>
9	 <p>68mm</p> <p>ZEXEL 3 cyl</p>	 <p>9892</p>	 <p>9562-L</p>	 <p>9562-LB</p>
10	 <p>68mm</p> <p>ZEXEL 4 cyl</p>	 <p>9893</p>	 <p>9562-F</p>	 <p>9562-G</p>

Configuration

SPACER PLATE	CAMBOX	ALBERO	COUPLING	APPLICATION
 <p>9562-M4</p>	 <p>9562-M1</p>	 <p>9564-A</p>	 <p>9576</p>	
 <p>9562-M4</p>	 <p>9562-M1</p>	 <p>9564-A</p>	 <p>9576</p>	
 <p>9562-M5</p>	 <p>9562-M1</p>	 <p>9564-A</p>	 <p>9576</p>	
 <p>9562-M5</p>	 <p>9562-M1</p>	 <p>9564-A</p>	 <p>9576</p>	
 <p>9562-M5</p>	 <p>9562-M1</p>	 <p>9564-A</p>	 <p>9576</p>	


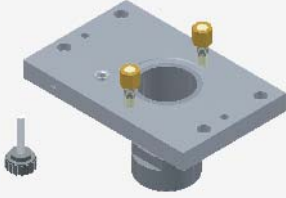

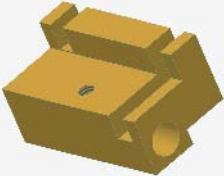

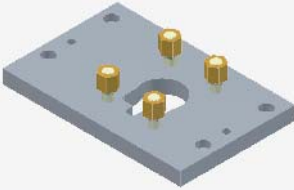

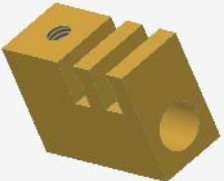

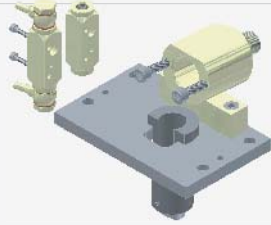






	PUMP	PLATE	ROD	ROD GUIDE
11	 <p>61mm</p> <p>MINI 2-3-4 cyl</p>	 <p>9562-M2</p>	 <p>9562-H</p>	 <p>9562-I</p>
12	 <p>61mm</p> <p>MINI 1 cyl</p>	 <p>9562-N</p>	 <p>9562-F</p>	 <p>9562-I</p>
13	 <p>YANMAR 2 cyl</p>	 <p>TD9004</p>	-	-
14	 <p>YANMAR 3 cyl</p>	 <p>TD9003</p>	-	-
15	 <p>YANMAR 3 cyl</p>	 <p>TD9001</p>	-	-

Configuration

SPACER PLATE	CAMBOX	ALBERO	COUPLING	APPLICATION
-	 <p>9562-M1</p>	 <p>9564-B</p>	 <p>9576</p>	
-	 <p>9562-M1</p>	 <p>9564-B</p>	 <p>9576</p>	
 <p>9562-M5</p>	 <p>9562-M1</p>	 <p>9564-A</p>	 <p>9576</p>	
-	 <p>9562-M1</p>	 <p>9564-A</p>	 <p>9576</p>	
 <p>9562-M5</p>	 <p>9562-M1</p>	 <p>9564-A</p>	 <p>9576</p>	



	PUMP	PLATE	ROD	ROD GUIDE
16	 BOSCH PFM 1P	 9562-P	 9562-F	 9562-FP
17	 ZEXEL 1 cyl	 9562-T	 9562-F	 9562-FP
18	 BOSCH PDM1Q60F	 9562-FX	 9562-F	included in 9562-FX
19	 BOSCH PFM 1P 100	 9562-S	 9562-F	included in 9562-S

Configuration

SPACER PLATE	CAMBOX	ALBERO	COUPLING	APPLICATION
 9562-M4	 9562-M1	 9564-C	 9576	DEUTZ - SAME (****)
 9562-M4	 9562-M1	 9564-A	 9576	SAME (***)
 9562-M4	 9562-M1	 9564-A	 9576	FOCS. (**)
 9562-M4	 9562-M1	 9564-C	 9576	DEUTZ - SAME

(**) For this application special tools **9920-BD**, **8080**, **8081** and **9701-FX** tool box are also available

(***) For this application special tools **8079**, **9561-A** e **9561** are also available

(****) during mounting session, first introduce the bare tappet in the proper sliding guide and after the pump body



MARBED[®]
PROFESSIONAL DIESEL SERVICE TOOLS

9659

Cushioned Coupling for CAV-DPA-DPS- DPC-BOSCH VE



9659

Cushioned puller coupling
for CAV DPA, DPS, DPC
and BOSCH VE pumps
adaptable to all test benches by **9680-A (A)**
supplied with 3 gears



9659-I17

gear - cone Ø 17



9659-I20

gear - cone Ø 20



9659-IDPA

CAV female gear - external Ø gear 35,5

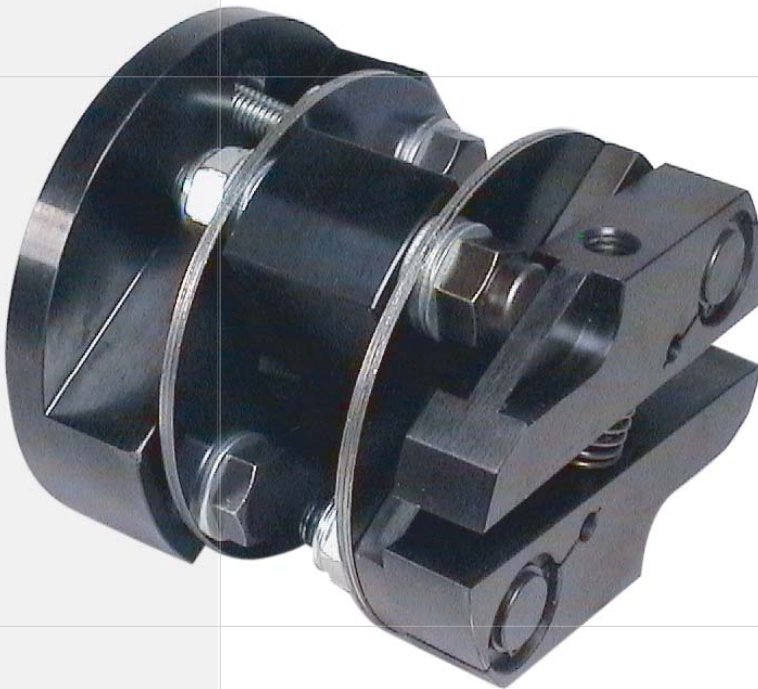


optional

9872

CAV gear
NOT INCLUDED

ISO 4008/1 Anti-backlash driving couplings



These couplings can be used to drive left and right any pump up 600 Nm
They must turn inside the proper protective cover



ISO 4008/1 anti-backlash coupling
Ø mm 115 - m10 holes

9873

BH 1 686 401 028
BH 1 686 401 029



ISO 4008/1 anti-backlash coupling
Ø mm 110 - m10 holes
(MAGASA F115 test bench)

9873-A

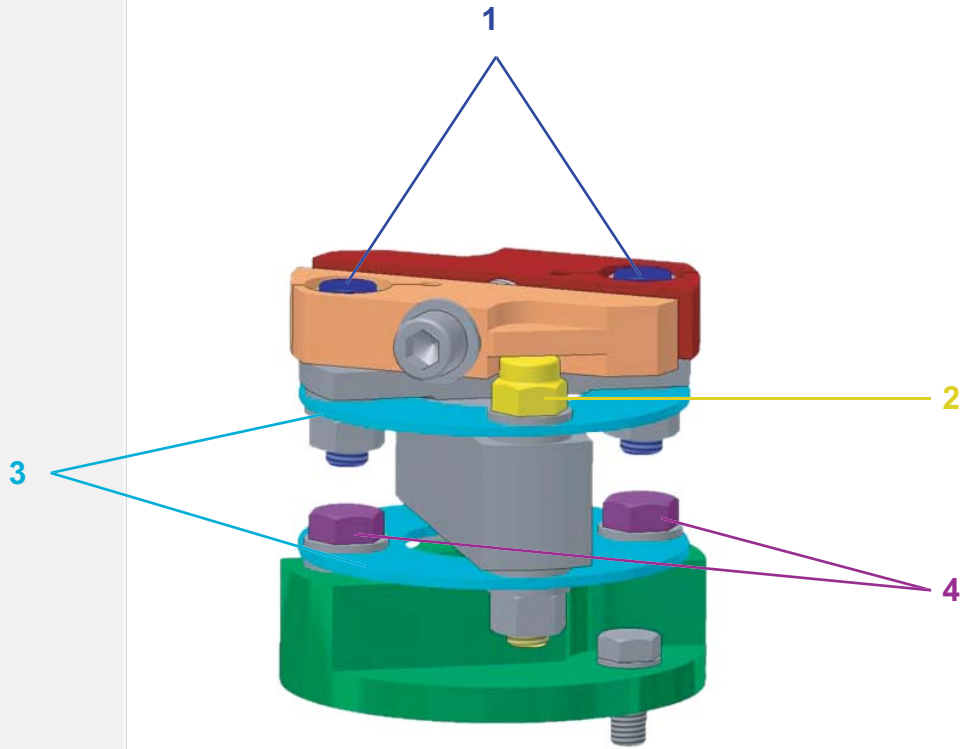



ISO 4008/1 anti-backlash coupling
Ø mm 115 - m12 holes

9873-R

BH 1 686 401 026
BH 1 686 401 027


Spare parts



1		Vice screw	9873-303
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2		Body screw	9873-304
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3		Intermediate disk	9873-305
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4		Screw for back plate	9873-309
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Conical driving couplings










CODE	Ø CONE	LENGHT	TEETH	PULLER	NOTES
 9576	17	33	10	-	
 9473	17	60	10	 9463	
 9577	17	90	10	 9463	
 9747 <i>BH 1 686 432 022</i>	19 toothed	10	-	-	<i>Pumps mounted on MERCEDES 190-250-D</i>  9405 <i>KDEP 1545 BH 0 986 612 056 clamp to block 9747 on test bench</i>
 9578-B <i>BH 1 686 430 024</i>	20	58	12	incorporated (nut 14x1,5)	
 9578-A <i>BH 1 686 430 010</i>	20	50	10	-	<i>BOSCH EP/VE pumps (on FORD TRANSIT)</i>

CODE	Ø CONE	LENGHT	TEETH	PULLER	NOTES
 9460	20	60	10	 9463	
 9578	20	90	10	 9463	
 9867	22	60	10	 9463	6 cylinders SIMMS pumps
 9462-B <i>BH 1 686 430 026</i>	25	58	12	incorporated (nut 18x1,5)	BOSCH P in-line pumps
 9461	25	60	10	 9463	BOSCH P pumps
 9462	25	90	10	 9463	BOSCH P pumps
 9462-A	25	110	12	 9463	Stiffened: external Ø 65 mm BOSCH P pumps


CODE	Ø CONE	LENGHT	TEETH	PULLER	NOTES
14  9685-C <i>BH 1 686 430 032</i>	30	58	12	incorporated (nut 20x1,5)	<i>BOSCH P 7100-P7800 pumps</i>
15  9685-A <i>BH 1 686 430 034</i>	30	85	12	 9463	<i>BOSCH P 7100-P7800 pumps</i>
16  9809-BC <i>BH 1 686 430 038</i>	35	58	12	incorporated (nut 24x1,5)	<i>Cone depth mm 30 BOSCH P 7100-P7800 pumps</i>
17  9809-BL <i>BH 1 686 430 040</i>	35	85	12	incorporated (nut 24x1,5)	<i>Cone depth mm 40 BOSCH P 7100-P7800 pumps</i>
18  9809-HC <i>BH 1 685 702 075 BH 1 685 702 076 BH 1 686 401 024</i>	35			-	<i>Cardan lamellar coupling for BOSCH P7100, P7800, R, H pumps</i>
19  9809-H <i>BH 1 685 702 073 BH 1 685 702 074 BH 1 686 401 024</i>	40			-	<i>Cardan lamellar coupling BOSCH H pumps</i>
20  9809-HS	40	94	12	-	<i>With 2 nuts</i>



Toothed driving couplings

CODE	Ø	TEETH No.	WRENCH	PULLER	NOTES
 9408	17	12+1	-	-	CAV-DPA pumps
 9747 BH 1 686 432 022	19 conical	10	-	-	Pumps mounted on MERCEDES 190-250-D  9405 KDEP 1545 BH 0 986 612 056 clamp to block 9747 on test bench
 9151	26	31	 9036	-	FIAT
 9255	28	15	-	-	LOMBARDINI
 9854	28,5	6	-	-	TOYOTA
 9862	29	37	 9863	-	IVECO 90-110

CODE	Ø	TEETH No.	WRENCH	PULLER	NOTES
7  9150	32,5	42	 9030	-	<i>FIAT TIGROTTO</i>
8  9153	33	68	 9037	-	<i>MERCEDES 220 D</i>
9  9155	33	65	 9043	 9455	<i>OPEL</i>
10  9154	34,5	25+1	 9038	-	<i>PEUGEOT</i>
11  9884	35,2	45	-	-	<i>FIAT THEMA - CROMA</i>
12  9350	39	50	 9349	 9894	<i>SOFIM</i>
13  9409	39,5	24	-	-	<i>CAV pumps on PERKINS</i>

CODE	Ø	TEETH No.	WRENCH	PULLER	NOTES
14  8023	44	58	-	 8024	<i>MERCEDES SPRINTER</i>
15  9809-C	45	37	 9809-D	 9809-E	<i>IVECO EUROTEC</i>
16  8090	50	22+1	 8091	 8092	<i>IVECO EUROCARGO 150E 23 - 120E 23</i>
17  9868-A	74,2	41	-	 9868-B	<i>IVECO 180.26</i>



9875-W

9875-W

Set of pullers for pump gears
 Ø 28, 33, 38-39, 45, 74
 Supplied in an elegant wooden case

9875

Set of pullers for pump gears.
 The kit includes:



9894

Puller for Ø 38-39 pump gears
 BOSCH MW, P mounted on IVECO 180.24, FIAT DUCATO
 component part numbers:

- 9875-E** Body
- 9875-C** Pair of half shells for 9894 - gear Ø 38-39
- 9875-D** Ring



9875-A

Pair of half shells for **9894** gear Ø 28



9875-B

Pair of half shells for **9894** gear Ø 33



9809-E

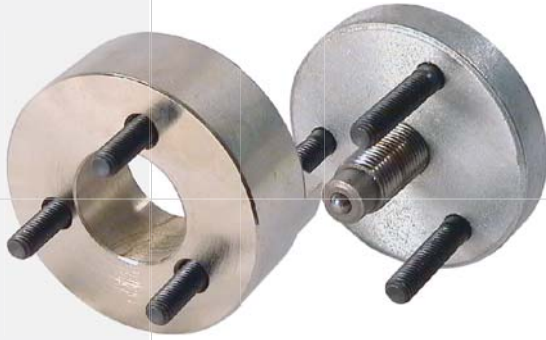
Complete puller for Ø 45 pump gears










9868-B




Complete puller for Ø 74,2 pump gears

Driving couplings for hubs



CODE	APPLICATION	PULLER	NOTES
 9998-A	LUCAS DPC and BOSCH VE pumps mounted on VW POLO 1900, GOLF TD	 9998	3 holes
 9865	CAV-DPS pumps mounted on FORD YORK, TRANSIT	 9866	3 holes
 9868	BOSCH P pumps mounted on IVECO TURBOSTAR 190.36	 9869	Ø 100 holes Ø 11
 9645 KDEP 1033	BOSCH P pumps mounted on MERCEDES, MAN ecc..	incorporated	PULLER COUPLING Thread 45x1,5 Tooth mm 12
 9343	SIMMS e BOSCH PES...P pumps mounted on FORD YORK e TRANSIT	-	4 holes - old type
 9803 KDEP 1557 BH 0 986 612 079	BOSCH P7100 - P1800 pumps mounted on IVECO 190.48 MERCEDES 19.44 and MACK engines	incorporated	PULLER COUPLING Threads 52x1,5 Tooth mm 12

CODE	APPLICATION	PULLER	NOTES
 9865-A	<i>VE PUMPS on FORD TRANSIT ORION</i>	 9866-A	4 holes
 9420	<i>Pumps mounted on FIAT 170</i>	 9874	Ø 170
 9464	<i>BOSCH P pumps mounted on SCANIA 141</i>	-	Ø 110 holes Ø 13
 9026	<i>Pumps mounted on FIAT 617</i>	-	Ø 93 4 holes Ø 10 2 holes Ø 11
 9429	<i>BOSCH PES...P pumps mounted on JOHN DEER</i>	incorporated	PULLER COUPLING 3 holes adapter to be used with 9026
 9430	<i>BOSCH PES...P pumps mounted on JOHN DEER</i>	incorporated	PULLER COUPLING 4 holes adapter to be used with 9026
 9401	<i>Pumps mounted on FIAT 690</i>	-	Ø 90 holes Ø 8

CODE	APPLICATION	PULLER	NOTES
12  9457	<i>CAV pumps mounted on FIAT 242 etc..</i>	9459	<i>Ø 60 4 holes</i>
13  9684	<i>CAV pumps mounted on PERKINS</i>	-	<i>Ø 60 3 holes</i>
14  9419	-	-	-

Keyed driving couplings



8151

Motoring coupling for
common rail pumps
Key: width 8 mm
Tooth: 12 mm



8152

Motoring coupling for
common rail pumps
Key width: 9 mm
Tooth: 12 mm



9482

Motoring coupling for
CATERPILLAR 955-K (Ø 35 mm)
Key width: 13 mm
Key height: 12 mm
Tooth: 10 mm

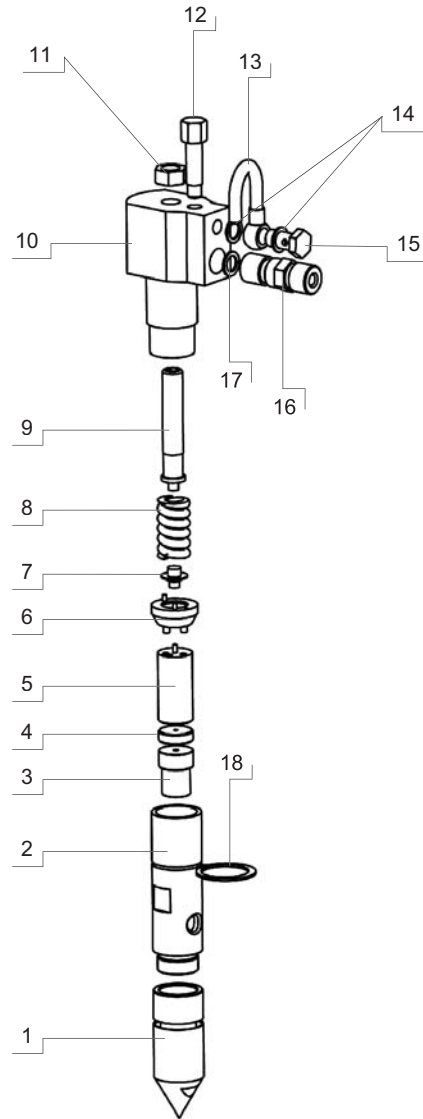
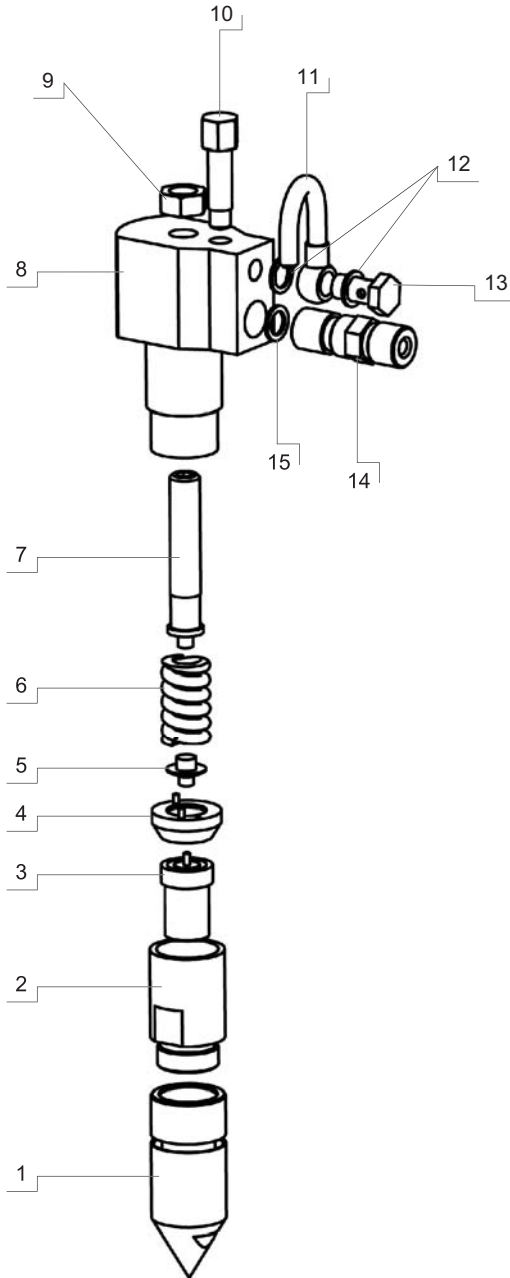
ISO test injectors

TYPE I ISO 7440

TYPE II ISO 7440

CODE	PRESSURE	ORIFICE PLATE	RIF.
84.05.022	130 BAR	-	1 688 901 022

CODE	PRESSURE	ORIFICE PLATE	RIF.
84.05.023	172 BAR	diam. 0,4 mm	1 688 901 023
84.05.025	172 BAR	diam. 0,5 mm	1 688 901 025
84.05.027	250 BAR	diam. 0,5 mm	1 688 901 027

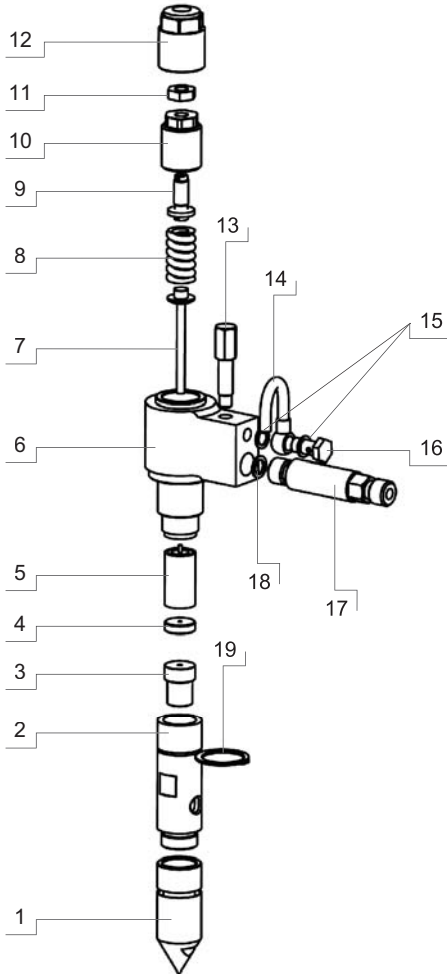


1	84.70.003	Spry damper assy
2	84.60.012	Nut retainer
3	84.40.992	Valve assy needle (rif. 1 688 901 992)
4	84.45.992	Spacer
5	84.15.001	Spindle
6	84.30.002	Spring
7	84.13.001	Registry screw
8	84.10.004	Body holder
9	84.14.001	Locknut pressure adjusting
10	84.12.001	Screw assy bleeder
11	84.99.001	Tube
12	84.18.001	Gasket
13	84.17.001	Screw
14	84.20.002	Fuel inlet stud assy
15	84.19.001	Gasket

1	84.70.003	Spry damper assy
2	84.60.010	Nut retainer
3	84.80.000	Adapter
4	84.50.V*	Orifice Plate
5	84.40.991	Valve assy needle (rif. 1 688 901 991)
6	84.45.991	Spacer
7	84.15.001	Spindle
8	84.30.002	Spring
9	84.13.001	Registry screw
10	84.10.004	Body holder
11	84.14.001	Locknut pressure adjusting
12	84.12.001	Screw assy bleeder
13	84.99.001	Tube
14	84.18.001	Gasket
15	84.17.001	Screw
16	84.20.002	Fuel inlet stud assy
17	84.19.001	Gasket
18	57.E1.025	Seeger

TYPE III ISO 7440

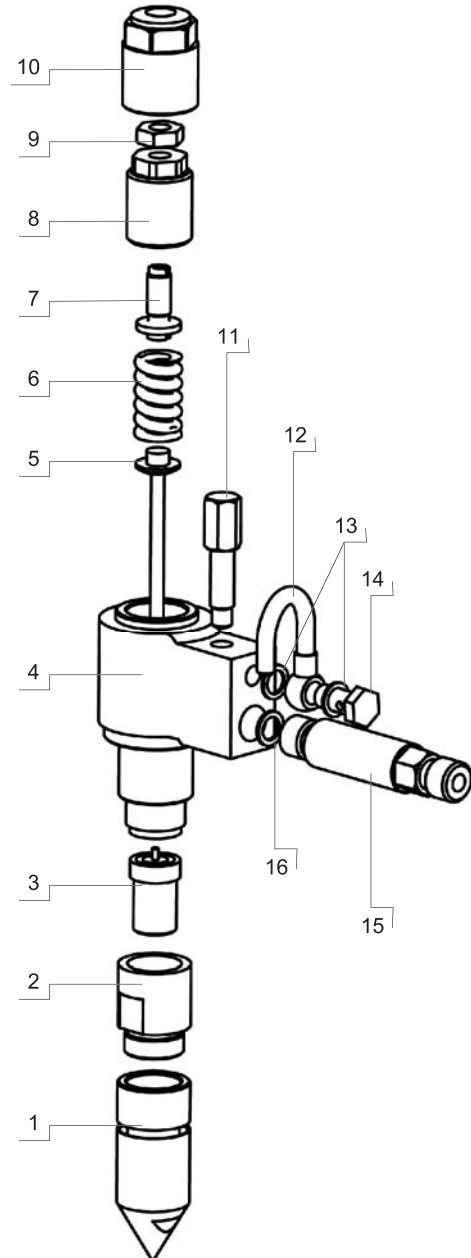
CODE	PRESSURE	ORIFICE PLATE	RIF.
84.05.015	207 BAR	diam. 0,4 mm	1 688 901 015 - AI104
84.05.016	207 BAR	diam. 0,5 mm	1 688 901 016 - AI105
84.05.017	207 BAR	diam. 0,6 mm	1 688 901 017 - AI106
84.05.018	207 BAR	diam. 0,7 mm	1 688 901 018 - AI107
84.05.019	207 BAR	diam. 0,8 mm	1 688 901 019 - AI108
84.05.020	172 BAR	diam. 0,6 mm	1 688 901 020 - AI106



1	84.70.003	Spry damper assy
2	84.60.003	Nut retainer
3	84.80.000	Adapter
4	84.50.V*	Orifice Plate
5	84.40.999	Valve assy needle (rif. 1 688 901 999 - AI100/4)
6	84.10.003	Body holder
7	84.15.002	Spindle
8	84.30.003	Spring
9	84.13.002	Registry screw
10	84.16.001	Spring retaining cup
11	84.14.002	Locknut pressure adjusting
12	84.11.001	Cover nut
13	84.12.002	Screw assy bleeder
14	84.99.001	Tube
15	84.18.001	Gasket
16	84.17.001	Screw
17	84.20.001	Fuel inlet stud assy
18	84.19.001	Gasket
19	57.E1.025	Seeger

TYPE IV ISO 7440

CODE	PRESSURE	ORIFICE PLATE	RIF.
84.05.000	147 BAR	-	1 688 901 000 - AI123
84.05.009	172 BAR	-	1 688 901 009 - AI123



1	84.70.003	Spry damper assy
2	84.60.014	Nut retainer
3	84.40.014	Valve assy needle (rif. 0 681 443 014 - AI1/13)
4	84.10.003	Body holder
5	84.15.002	Spindle
6	84.30.003	Spring
7	84.13.002	Registry screw
8	84.16.001	Spring retaining cup
9	84.14.002	Locknut pressure adjusting
10	84.11.001	Cover nut
11	84.12.002	Screw assy bleeder
12	84.99.001	Tube
13	84.18.001	Gasket
14	84.17.001	Screw
15	84.20.001	Fuel inlet stud assy
16	84.19.001	Gasket

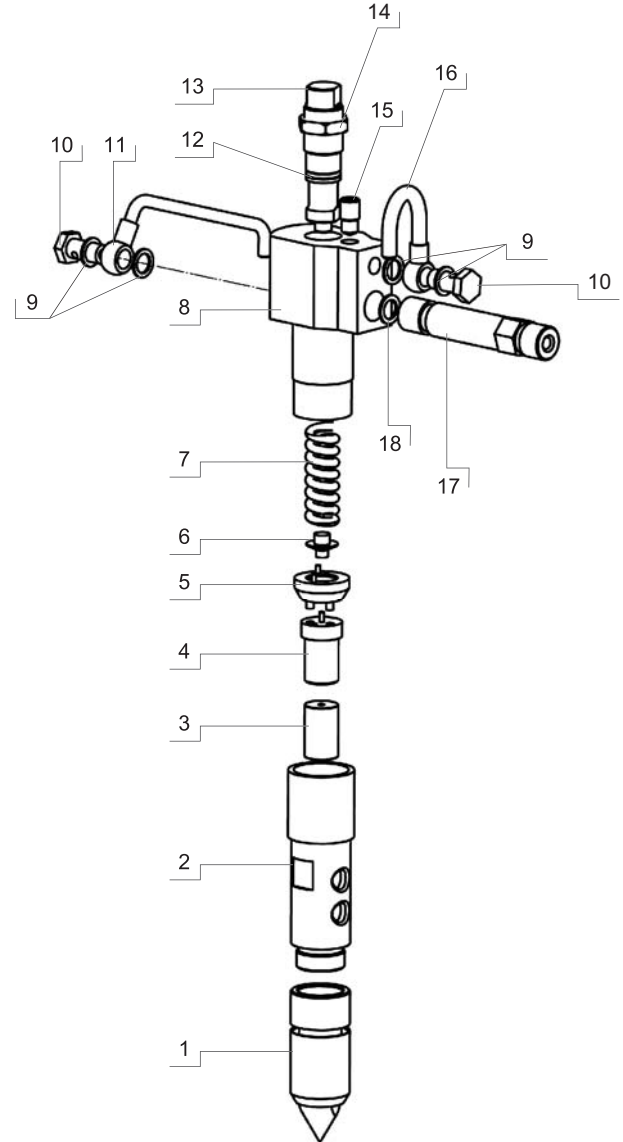
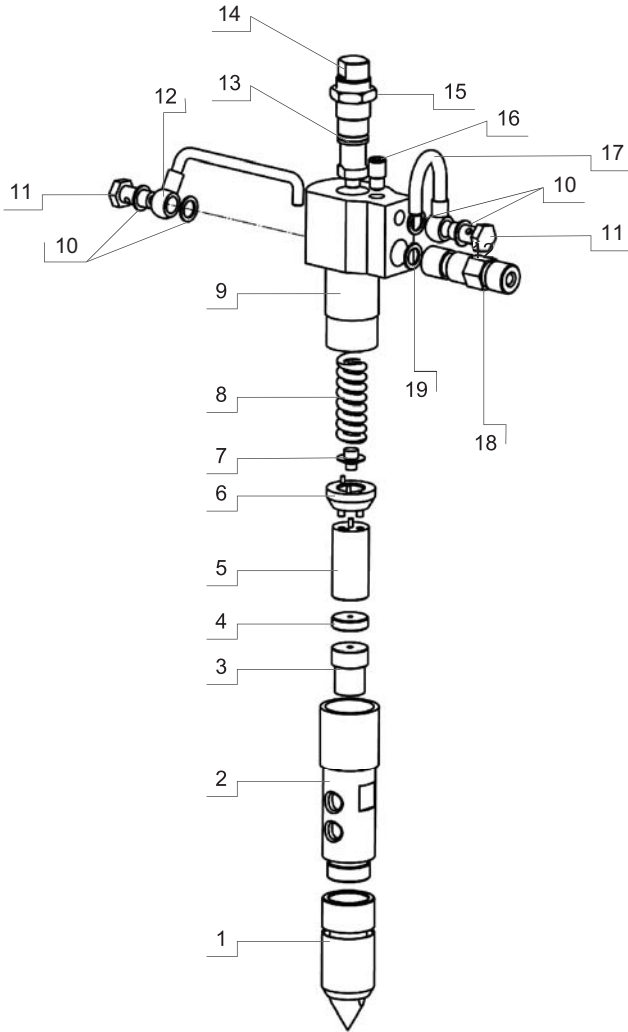


TYPE VII ISO 14681

TYPE VIII ISO 14681

CODE	PRESSURE	ORIFICE PLATE	RIF.
84.05.101	207 BAR	diam. 0,6 mm	1 688 901 101
84.05.102	250 BAR	diam. 0,6 mm	1 688 901 102
84.05.103	207 BAR	diam. 0,7 mm	1 688 901 103
84.05.104	250 BAR	diam. 0,7 mm	1 688 901 104
84.05.105	207 BAR	diam. 0,8 mm	1 688 901 105
84.05.106	250 BAR	diam. 0,8 mm	1 688 901 106
84.05.109	207 BAR	diam. 0,5 mm	1 688 901 109
84.05.110	250 BAR	diam. 0,5 mm	1 688 901 110

CODE	PRESSURE	ORIFICE PLATE	RIF.
84.05.111	147 BAR	-	1 688 901 111
84.05.112	172 BAR	-	1 688 901 112
84.05.113	207 BAR	-	1 688 901 113

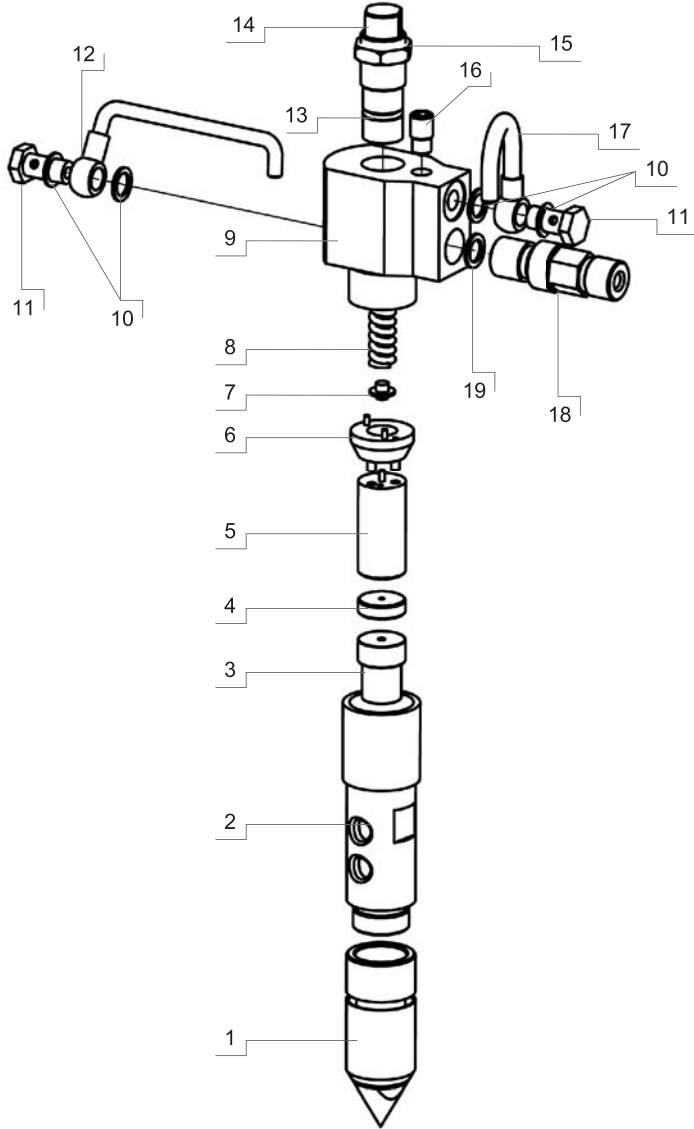


- 1 84.70.003 Spry damper assy
- 2 84.60.005 Nut retainer
- 3 84.80.000 Adapter
- 4 84.50.V* Orifice Plate
- 5 84.40.990 Valve assy needle (rif. 1 688 901 990)
- 6 84.45.990 Spacer
- 7 84.15.003 Spindle
- 8 84.30.004 Spring
- 9 84.10.005 Body holder
- 10 84.18.001 Gasket
- 11 84.17.001 Screw
- 12 84.99.002 Tube
- 13 84.21.001 O-ring
- 14 84.13.003 Registry screw
- 15 84.14.003 Locknut pressure adjusting
- 16 84.12.003 Screw assy bleeder
- 17 84.99.001 Tube
- 18 84.20.003 Fuel inlet stud assy
- 19 84.19.001 Gasket

- 1 84.70.003 Spry damper assy
- 2 84.60.005 Nut retainer
- 3 84.80.210 Adapter
- 4 84.40.988 Valve assy needle (rif. 1 688 901 988)
- 5 84.45.990 Spacer
- 6 84.15.003 Spindle
- 7 84.30.004 Spring
- 8 84.10.005 Body holder
- 9 84.18.001 Gasket
- 10 84.17.001 Screw
- 11 84.99.002 Tube
- 12 84.21.001 O-ring
- 13 84.13.003 Registry screw
- 14 84.14.003 Locknut pressure adjusting
- 15 84.12.003 Screw assy bleeder
- 16 84.99.001 Tube
- 17 84.20.005 Fuel inlet stud assy
- 18 84.19.001 Gasket

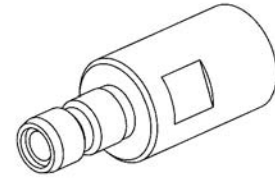
TYPE IX ISO 14681

CODE	PRESSURE	ORIFICE PLATE	RIF.
84.05.114	207 BAR	diam. 0,4 mm	1 688 901 114
84.05.115	250 BAR	diam. 0,4 mm	1 688 901 115
84.05.116	207 BAR	diam. 0,5 mm	1 688 901 116
84.05.117	250 BAR	diam. 0,5 mm	1 688 901 117



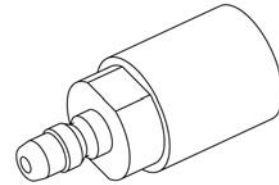
- 1 84.70.003 Spray damper assy
- 2 84.60.005 Nut retainer
- 3 84.80.000 Adapter
- 4 84.50.V* Orifice Plate
- 5 84.40.987 Valve assy needle (rif. 1 688 901 987)
- 6 84.45.987 Spacer
- 7 84.15.004 Spindle
- 8 84.30.005 Spring
- 9 84.10.006 Body holder
- 10 84.18.001 Gasket
- 11 84.17.001 Screw
- 12 84.99.002 Tube
- 13 84.21.001 O-ring
- 14 84.13.004 Registry screw
- 15 84.14.003 Locknut pressure adjusting
- 16 84.12.003 Screw assy bleeder
- 17 84.99.001 Tube
- 18 84.20.004 Fuel inlet stud assy
- 19 84.19.001 Gasket

SPECIFIC APPLICATION ON BOSCH 815 TEST BENCHES AND SIMILAR

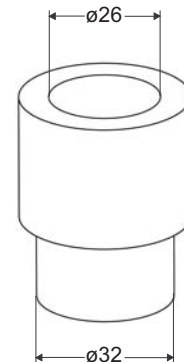


In the place of the standard spray damper, the proper adaptor **84.70.005** allows to install any ISO test injector into the specific quick release couplings installed on Bosch test benches mod. 815 and similar

SPECIFIC APPLICATION ON HARTRIDGE AVM TEST BENCHES AND SIMILAR



The proper adaptor **84.70.006** is specifically designed to install any ISO test injector into specific quick release couplings installed on Hartridge test benches mod. AVM and similars.

9922


Reduction nylon bushing for dumper to be applied on different test benches (not on BOSCH) 32 x 26.

* It depends on the model of the test injector. For the appropriate part number use the following table.

84.50.V4	diam. 0,4 mm	rif. 1 680 103 094 - AI104/1
84.50.V5	diam. 0,5 mm	rif. 1 680 103 095 - AI105/1
84.50.V6	diam. 0,6 mm	rif. 1 680 103 096 - AI106/1
84.50.V7	diam. 0,7 mm	rif. 1 680 103 097 - AI107/1
84.50.V8	diam. 0,8 mm	rif. 1 680 103 098 - AI108/1



9919

*KDEP 1140
BH 0 986 611 876*

Device to be installed on test bench bed, in order to hold until 6 ISO test injectors on application where short test pipes are required. The kit is complete with 6 flexibles pipes to connect test injectors to the test bench metering system



9921

Holder for ISO test injectors TYPE III and IV



9921-A

Holder for ISO test injectors TYPE I, II, VII, VIII and IX



9920

Rilsan flexible pipe with quick connections on male and female fittings (20 x 1,5)

*KDEP 1140/2
BH 0 986 611 883*



9920-D

Female 20 x 1,5 fitting for flexible pipe



9920-E

Male 20 x 1,5 fitting for flexible pipe



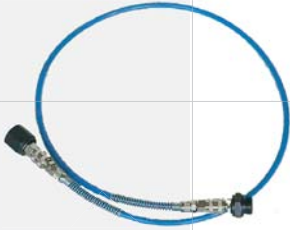
9920-F

Quick connection for flexible pipe



Adapter for old version of 9921
to old type IX test injectors

9981
OPTIONAL



Rilsan flexible pipe with reinforced quick connections
for high pressure complete with
male and female fittings (20 x 1,5)

9920-A
OPTIONAL



Reinforced quick release connection
nozzle holder side

9920-B



Reinforced quick release connection
dumper holder side

9920-C



Female 20 x 1,5 fitting for flexible pipe

9920-D



Male 20 x 1,5 fitting for flexible pipe

9920-E



Interface to hold the bracket for ISO test
injectors on HARTRIDGE test benches

70.12.022
OPTIONAL



New design version of 9919





84.90.010
OPTIONAL

ISO 4093 high pressure pipes



Rubber covered steel pipes





ISO normative 4093/1986 pipes for test benches with tested welded cones in special high resistant steel. The pipes are equipped with antioil rubber coating to reduce vibrations and to decrease noise of 50%. Test bench oil remains in temperature, shape set at the beginning remains the same all over the time.

CODE						NUT	APPLICATION
1	8037/A <i>HH AHP114</i>	6	1,75	2,5	330	12/12	<i>EPIC (PSA) pumps</i>
2	8074 <i>BH 1 680 750 085</i>	6	2,2	1,6	350	12/14	<i>VE direct injection (Audi - Ford Transit)</i>
3	8039/A <i>HH AHP133</i>	6	2,125	1,75	450	12/14	<i>DP200 pumps</i>
4	8071 <i>BH 1 680 750 073 HH AHP120</i>	6	2	2	450	12/14	<i>VE direct injector DPCN LUCAS (BMW-Daily - Kangoo - Marea)</i>
5	8072/A <i>BH 1 680 750 015 HH AHP121</i>	6	1,5	3	600	14/14	<i>PE(S) ...P Pumps Bosch over 11 mm</i>
6	8072/B <i>BH 1 680 750 014 HH AHP117</i>	6	2	2	600	12/14	<i>KAM MW DCP DPS</i>
7	8072 <i>BH 1 680 750 008 HH AHP119</i>	6	2	2	600	14/14	<i>PE(S) ...P Pumps Bosch to 11mm</i>
8	8038/A <i>HH AHP134</i>	6	2,25	2,5	710	12/14	<i>DP200 pumps</i>
9	8073 <i>BH 1 680 750 017 HH AHP118</i>	6	2	2	845	12/14	<i>VA VE DPS MW direct injection</i>
10	8075/A <i>BH 1 680 750 075 HH AHP124</i>	8	2,5	3	1000	14/14	<i>PE(S) ...P Pumps Bosch over 11mm</i>



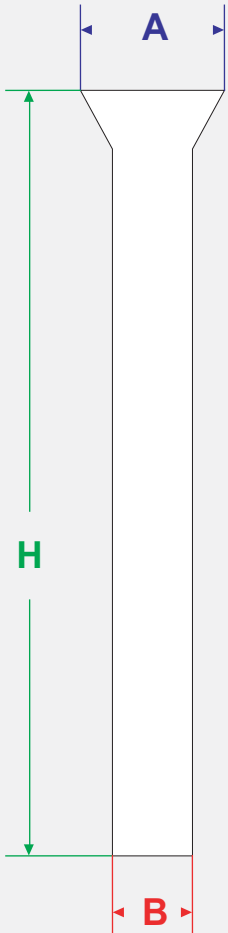
Steel pipings

ISO normative 4093/1986 pipings for test benches
 with tested welded cones in special high resistant steel

CODE					NUT	APPLICATION
1 8076 <i>BH 1 680 750 082</i>	6	2,25	1,5	267	12/14	FR 1K (same)
2 8037 <i>HH AHP114</i>	6	1,75	2,5	330	12/12	VE direct injection (Audi - Ford Transit)
3 9982 <i>BH 1 680 750 085</i>	6	2,2	1,6	350	12/14	VE direct injection (Audi - Ford Transit)
4 8039 <i>HH AHP133</i>	6	2,125	1,75	450	12/14	DP200 pumps
5 9923 <i>BH 1 680 750 073</i> <i>HH AHP120</i>	6	2	2	450	12/14	VE direct injector DPCN (BMV-Daily - Kangoo - Marea)
6 9930/A <i>BH 1 680 750 015</i> <i>HH AHP121</i>	6	1,5	3	600	14/14	PE(S) ...P Pumps Bosch to 11 mm
7 9925 <i>BH 1 680 750 014</i> <i>HH AHP117</i>	6	2	2	600	12/14	KAM MW DCP DPS
8 9925/A <i>BH 1 680 750 008</i> <i>HH AHP119</i>	6	2	2	600	14/14	PE(S) ...P Pumps Bosch to 11mm
9 9930/B <i>BH 1 680 750 089</i>	8	2,5	3	600	14/14	PE(S) ...P Pumps Bosch over 11mm
10 8038 <i>HH AHP134</i>	6	2,25	1,5	710	12/14	DP200 pumps
11 9927 <i>BH 1 680 75 0017</i> <i>HH AHP118</i>	6	2	2	845	12/14	VA VE DPA DPS MW direct injection
12 9927/A <i>BH 1 680 750028</i>	6	2	2	845	14/14	VA DPA
13 9929 <i>BH 1 680 750 075</i> <i>HH AHP124</i>	8	2,5	3	1000	14/14	PE(S) ...P Pumps Bosch over 11mm
14 9982-M <i>BH 1 680 750 100</i>	6	1,9	2,2	350	12/14	VP29/30 (FORD, ROVER)
15 9926-M <i>BH 1 680 750 103</i>	6	2	2	450	12/14	VP29/30
16 9923-M <i>BH 1 680 750 101</i>	6	1,9	2,2	450	14/14	VP44 (AUDI, BMW, FORD, NISSAN)
17 9927-M <i>BH 1 680 750 102</i>	6	2	2	845	14/14	VP44 (CUMMINS, J.DEERE, NISSAN, VOLVO)

Conical graduated test tubes

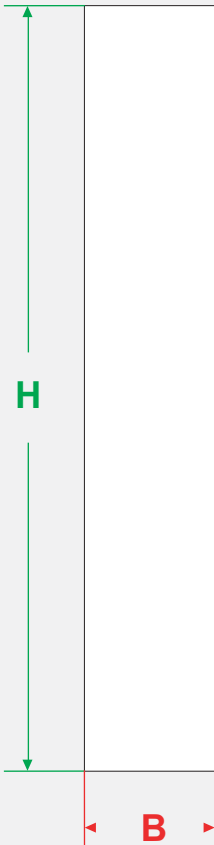
Graduated with mercury at 20°C
 to assure the maximum accuracy
 Set of 6, 8, 12 pieces are recommended



	CODE	CC	B Ø	A Ø	H	APPLICATION
1	80.06.0012	10	11	30,5	217	ODOLINI, RABOTTI
2	80.06.0022	12	11	30,5	217	ODOLINI, RABOTTI MERLIN
3	80.06.0003	12	12	27,5	217	HARTRIDGE
4	80.06.0009	25	15	32	223	ODOLINI
5	80.06.0013	30	17	27	240	ODOLINI, RABOTTI
6	80.06.3003	44	17	36	318	AEGE, ODOLINI BOSCH
7	80.06.0002	45	20	30	217	ODOLINI
8	80.06.0017	50	22	34	220	RABOTTI
9	80.06.0006	50	18	36	292	AEGE, ODOLINI
10	80.06.0008	150	29,5	36	320	BOSCH, DETEQ

Graduated test tubes

Graduated with mercury at 20°C
 to assure the maximum accuracy
 Set of 6, 8, 12 pieces are recommended



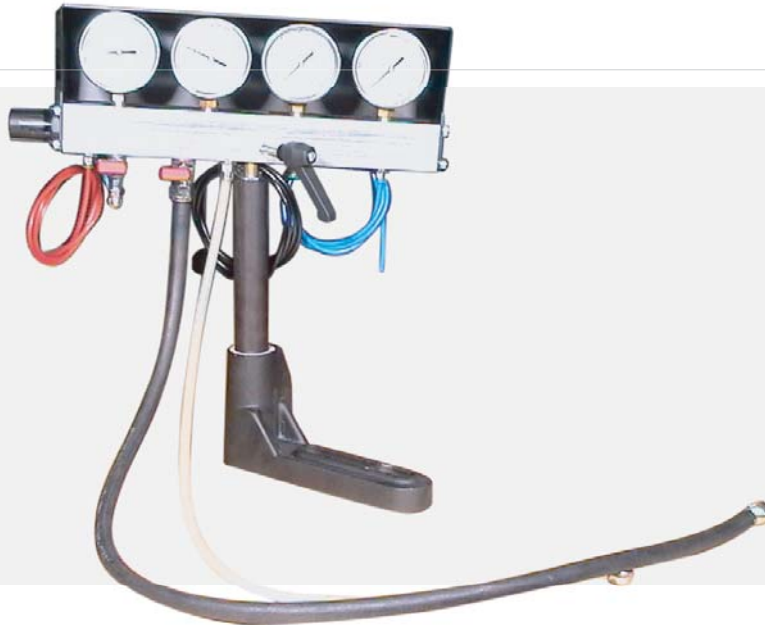
	CODE	CC	B Ø	H	APPLICATION
1	80.06.0010	100	28	222	ODOLINI
2	80.06.0016	130	32,8	218	RABOTTI, AEGE
3	80.06.0018 <i>BH 1 680 510 003</i>	150	34	239	BOSCH
4	80.06.0019	200	28	217	RABOTTI
5	80.06.0007	240	36,5	293	ODOLINI, DETEQ
6	80.06.0011	260	37,5	315	--
7	80.01.3004	260	36	318	DETEQ
8	80.06.0015 <i>BH 1 680 439 506</i>	260	37	320	BOSCH
9	80.06.0023	270	38	292	AEGE



MARBED[®]
PROFESSIONAL DIESEL SERVICE TOOLS

9632-A

Auxiliary manometer unit



9632-A
1 688 130 075

Auxiliary manometer unit to test rotary pumps on test bench,
equipped with:

*0-1,6 BAR manometer and correspondent
pressure regulator to test LDA devices*

*-1/0/+3 BAR combined vacuum manometer to check
the pump feed pressure and allow the vacuum tests*

0-16 BAR manometer to check the transfer pressure

0-2,5 BAR manometer to check the pump box pressure

Pipes and fittings

manometers

8140

0-1,6 BAR gliceroil manometer

8139

-1/0/+3 BAR gliceroil combined manometer and vacuum meter

9286

0-16 BAR gliceroil manometer

9287

0-1 BAR gliceroil manometer

9288

0-2,5 BAR gliceroil manometer

9302

-760/0 mmHg -1/0 BAR gliceroil vacuum meter



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e-mail info@marbed.com