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08May2024

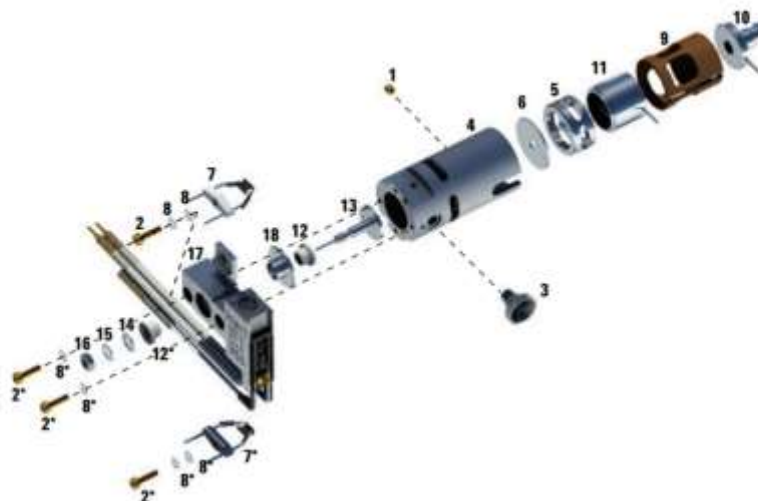
 05980-60051 Lint Free Cloth 15pk	 5080-5400 Cotton Swabs, 100pk	 393706201 Aluminum Oxide Powder 100g	 05971-60571 GC/MS tuning standard, PTFBA 0.5ml	 G3170-80002 Glass Bulb for PFTBA/PFTD	 05970-60045 Functionality Test Mix
 G7005-60061 High Temp Filament for EI 1/pk	 G7002-60001 High Efficiency Source (HES) dual filament 1/pk	 G7005-60072 High Temp Filament for CI 2/pk	 05971-80103 Electron Multiplier	 G3170-80103 Electron Multiplier TAD Series I	 G7002-80103 Electron Multiplier TAD Series II
 G3440-81011 Column Nut, collared Self-tightening, inlet	 G3440-81013 Column Nut, collared Self-tightening, Transferline	 5181-3323 Ferrules, 0.4 mm id. 10pk Self-tightening nuts	 05988-20066 Brass transferline column nut, requires long ferrule	 5062-3508 Long ferrule for brass transferline nut	 5188-5365 Liner O-rings 10pk non-stick fluorocarbon
 18740-60835 Septum Retainer Nut	 5183-4757 11 mm BTO Septa 50pk	 5188-5367 Gold plated seal w/washer 1pk	 G3510-60820 MMI Cleaning Kit	 5181-8836 Ceramic Column Cutter 4pk	 5190-3983 Splitless, double taper Ultra Inert Liner
 G4513-80203 10uL ALS syringe PTFE plunger, Blue Line 1pk	 19091S-433 HP-5MSUI 5% 30 x 250uM x 0.25uM	 8710-1570 Driver, 1.5mm ball	 8710-2548 Torx T-6 driver	 G7077-67018 IDP3 PM Kit	 G7004-67023 IDP10 PM Kit
 G6696A IDP-3 scroll pump conversion kit for SQ	 G6697A IDP-10 scroll pump conversion kit for TQ	 0905-1619 Pfeiffer Duo 2.5/3.0 drain plug O ring	 G1099-80039 Oil mist filter for Pfeiffer Duo 2.5/3.0	 G7077-60119 Foreline Hose Imbedded Spring	 5191-5851 or 5191-5852 AVF 45 Platinum Oil 1 qt or 1 gal

Single and Triple Quad GC/MS Systems

Electron Ionization (EI) Ion Source – Stainless Steel and Inert

The recommended cleaning material for the EI SS and Inert Ion Sources is aluminum oxide powder. Do not immerse filaments or lens insulators in solvent. If insulators are dirty, clean them with a cotton swab dampened with reagent-grade methanol. If that does not clean the insulators, replace them.

Item number	Item description	Part number (SSL)	Part number (Inert)
1	Gold plated set screw	G1999-20022	G1999-20022
2	Gold plated screw	G3870-20021	G3870-20021
3	Interface socket	G1099-20136	G1099-20136
4	Source body	G1099-20130	G2589-20043
5	Drawout cylinder	G1072-20008	G1072-20008
6	Drawout plate	05971-20134	G2589-20100
7	Filament	G7005-60061	G7005-60061
8	Spring washer	3050-1374	3050-1374
8	Flat washer	3050-0982	3050-0982
9	Lens insulator	G3170-20530	G3170-20530
10	Entrance lens	G3170-20126	G3170-20126
11	Ion focus lens	05971-20143	05971-20143
12	Repeller insulator	G1099-20133	G1099-20133
13	Repeller	G3870-60172	G3870-60173
14	Flat washer	3050-0627	3050-0627
15	Belleville spring washer	3050-1301	3050-1301
16	Repeller nut	0535-0071	0535-0071
17	Source heater block assembly	G3870-60180	G3870-60179
18	Repeller block insert	G3870-20135	G3870-20125



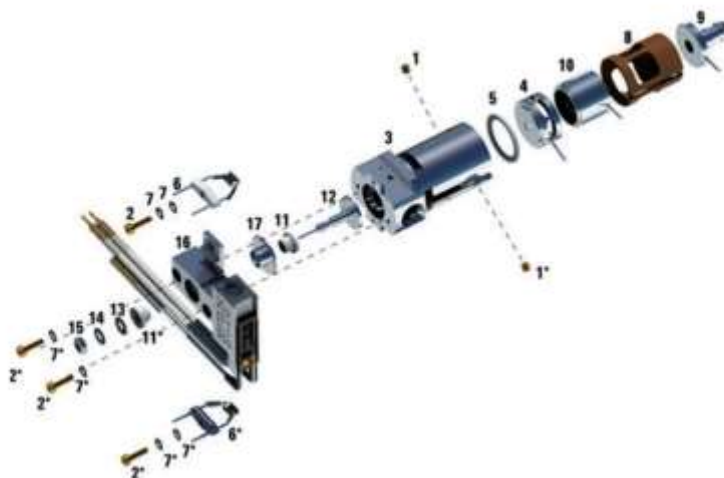
EI Extractor Ion Source and Hydrolnert Ion Source

The recommended cleaning material for the Extractor Ion Source is aluminum oxide powder.

Do not abrasively clean the Hydrolnert Ion Source parts.

Do not immerse filaments or lens insulators in solvent. If insulators are dirty, clean them with a cotton swab dampened with reagent-grade methanol. If that does not clean the insulators, replace them.

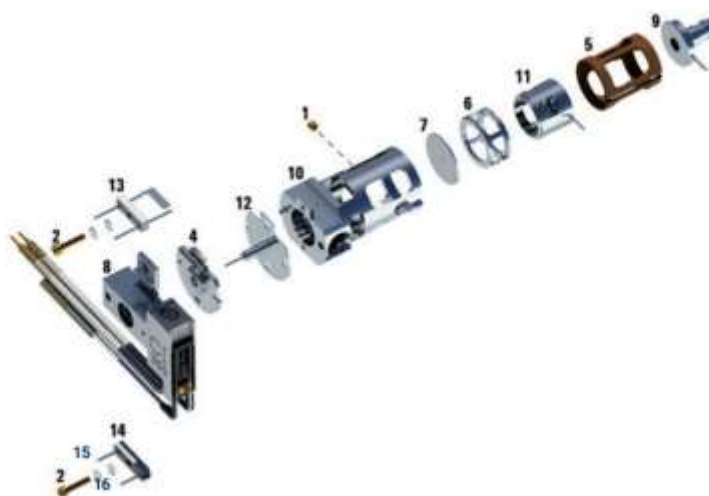
Item number	Item description	Part number (XTR)	Part number (Hydrolnert)
1	Setscrews	G3870-20446	G3870-20446
2	Screws	G3870-20021	G3870-20021
3	Source body	G3870-20440	G7078-20903
4	Extractor lens	G3870-20444	G7078-20909
5	Extractor lens insulator	G3870-20445	G3870-20445
6	Filament	G7005-60061	G7005-60061
7	Spring washer	3050-1301	3050-1301
7	Flat washer	3050-0982	3050-0982
8	Lens insulator	G3870-20530	G3870-20530
9	Entrance lens assembly, Extended	G7000-20026	G7078-20904
10	Ion focus lens	05971-20143	G7078-20905
11	Repeller insulator	G1099-20133	G1099-20133
12	Repeller	G3870-60171	G7078-20902
13	Flat washer	3050-0891	3050-0891
14	Belleville spring washer	3050-1301	3050-1301
15	Repeller nut	0535-0071	0535-0071
16	Source heater block assembly	G3870-60177	G7078-20910
17	Insert, Repeller block	G3870-20135	G7078-20901



Chemical Ionization (CI) Ion Source

The recommended cleaning material for the CI Ion Source is aluminum oxide powder. Do not immerse filaments or lens insulators in solvent. If insulators are dirty, clean them with a cotton swab dampened with reagent-grade methanol. If that does not clean the insulators, replace them.

Item number	Item description	Part number
1	Setscrew	G1999-20022
2	Filament screw	G1999-20021
Not shown	CI interface tip seal	G3870-20542
4	CI repeller insulator	G1999-20433
5	CI lens insulator	G3170-20540
6	CI drawout cylinder	G1999-20444
7	CI drawout plate	G1999-20446
8	CI ion source heater block assembly	G3870-60415
9	Entrance lens	G3170-20126
10	CI ion source body	G3170-20430
11	CI ion focus lens	G1999-20443
12	CI repeller	G7077-20432
13	CI filament	G7005-60072
14	Dummy filament	G1999-60454
15	Curved washer	3050-1374
16	Flat washer	3050-9082

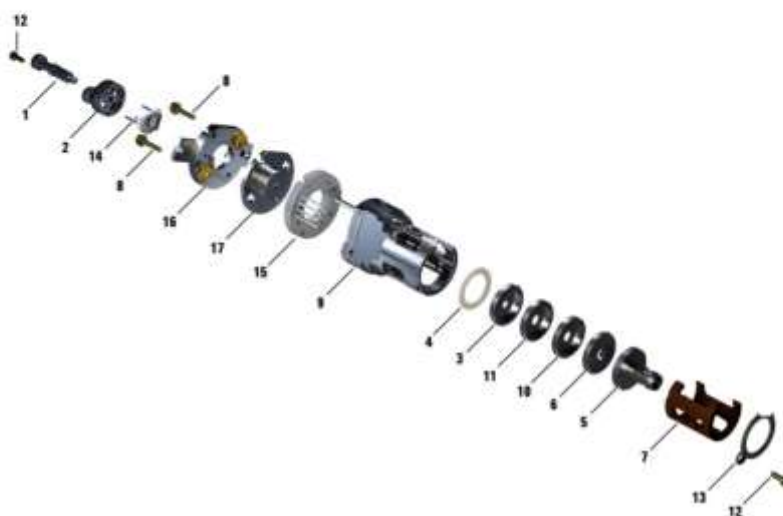


Electron Ionization (EI) High Efficiency Ion Source – HES

The recommended cleaning material for the HES is aluminum oxide powder.
Do not immerse filaments or lens insulators in solvent. If insulators are dirty, clean them with a cotton swab dampened with reagent-grade methanol. If that does not clean the insulators, replace them.

Item number	Item description	Part number
1	Source finger grip	G7002-20008
2	Filament block	G7002-20019
3	Extractor lens (5)*, with 3 mm opening	G7004-20061
4	Ceramic insulator for extractor	G7002-20064
5	Entrance lens assembly, Extended, HES (1)*	G7004-20065
6	Ion focus lens (2)*	G7004-20068
7	Lens insulator/holder	G7002-20074
8	M2 x 0.4 screw x 12 mm long gold plated screw	G7002-20083
9	Source body	G7002-20084
10	Post extractor lens 2 (3)*	G7004-20090
11	Post extractor lens 1 (4)*	G7004-20004
12	M2 x 6 mm gold plated screw	G7002-20109
13	Locking ring lens insulator	G7002-20126
14	High efficiency dual filament	G7002-60001
15	Ring heater/sensor assembly	G7002-60043
16	Source mount 1.5 mm	G7002-60053
17	Repeller assembly	G7002-67057

* The number in parenthesis is the number engraved on the lens



Capillary Column Ferrules – for use with most brands of column, including DB, HP, CP, VF and Select columns

Column ID (mm)	Ferrule Nom ID	UltiMetal Plus Flexible Metal Ferrule Part No.	Graphite Short Ferrule Part No.	Polyimide Short Ferrule Part No.	85% Polyimide/ 15% Graphite Short Ferrule Part No.
0.025-0.05	0.4		500-2114	5062-3515	5062-3516
0.075	0.4		500-2114	5062-3515	5062-3516
0.1-0.25	0.4	G3188-27501	500-2114	5181-3322	5181-3323
0.1-0.25*	0.5		5080-8853	5062-3513	5062-3514
0.32	0.5	G3188-27502	5080-8853	5062-3513	5062-3514
0.45	0.8	G3188-27503	500-2118	5062-3511	5062-3512
0.53	0.8	G3188-27503	500-2118	5062-3511	5062-3512
No hole					5190-4054



Injection Port Self-Tightening Column Nut with Collar
G3440-81011

Recommended MS Interface Connections

Description	Part No.
Recommended	
Nut	
Self Tightening column nut, for MS interface	G3440-81013
Ferrule	
250 µm Polyimide/graphite ferrule, 10/pk short	5181-3323
320 µm Polyimide/graphite ferrule, 10/pk short	5062-3514
No hole short	5190-4054



GCMS Transferline Self-Tightening Column Nut with Collar
G3440-81013



G6693A Handheld Leak Detector



G6691A Handheld Flow Meter