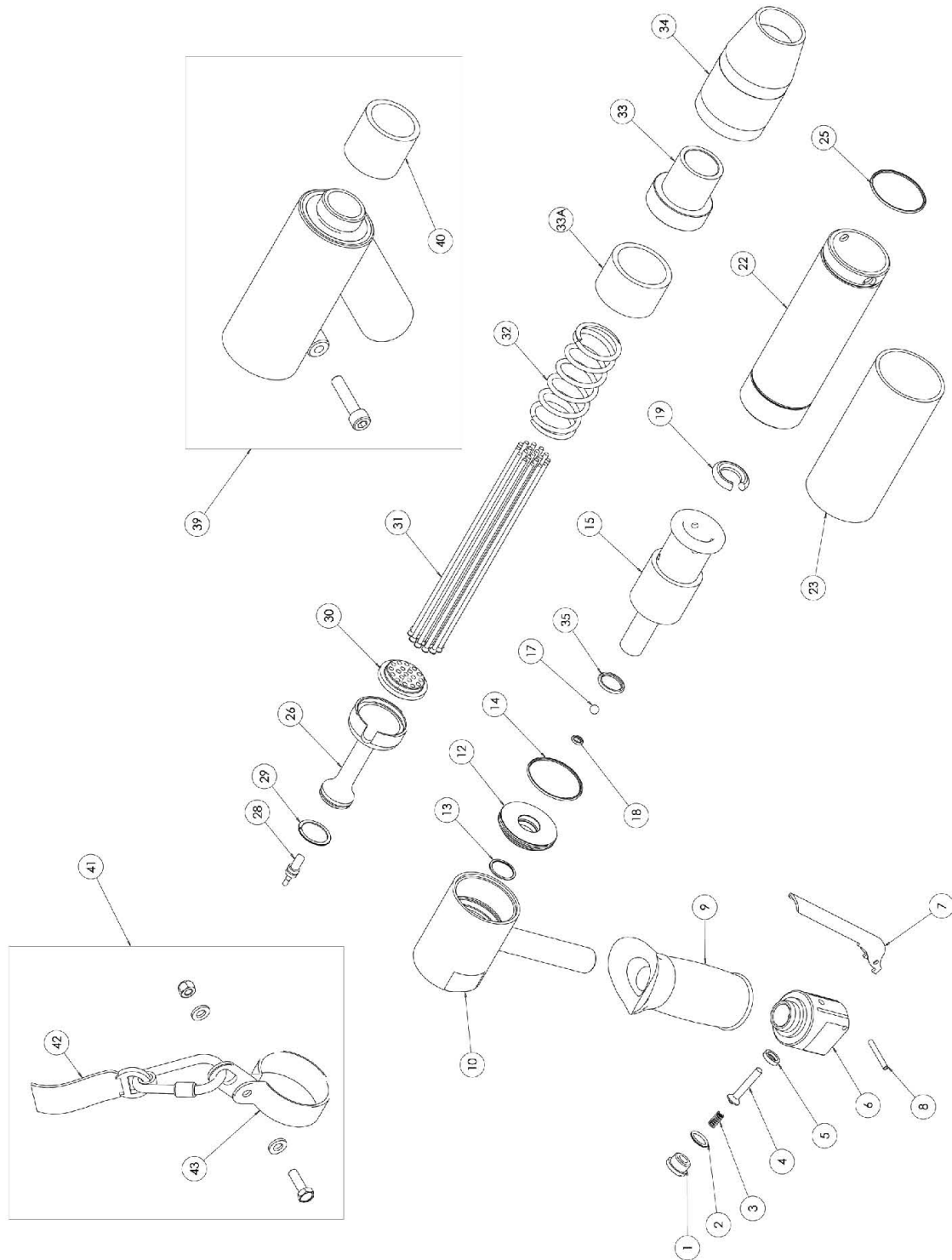


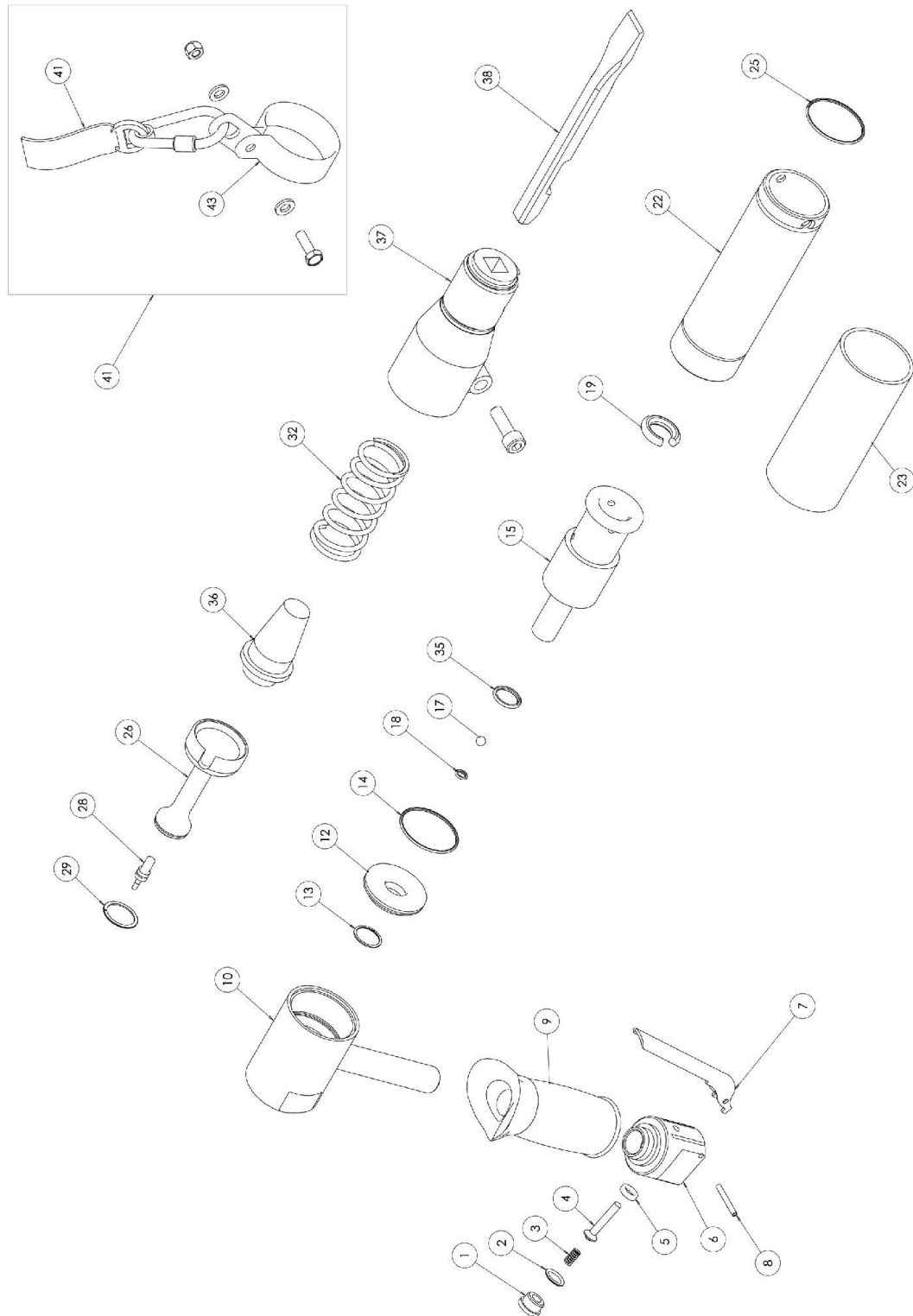
VL NEEDLE & CHISEL SCALERS: VL223, VL203



EXPLODED VIEW VL203 NEEDLE SCALER



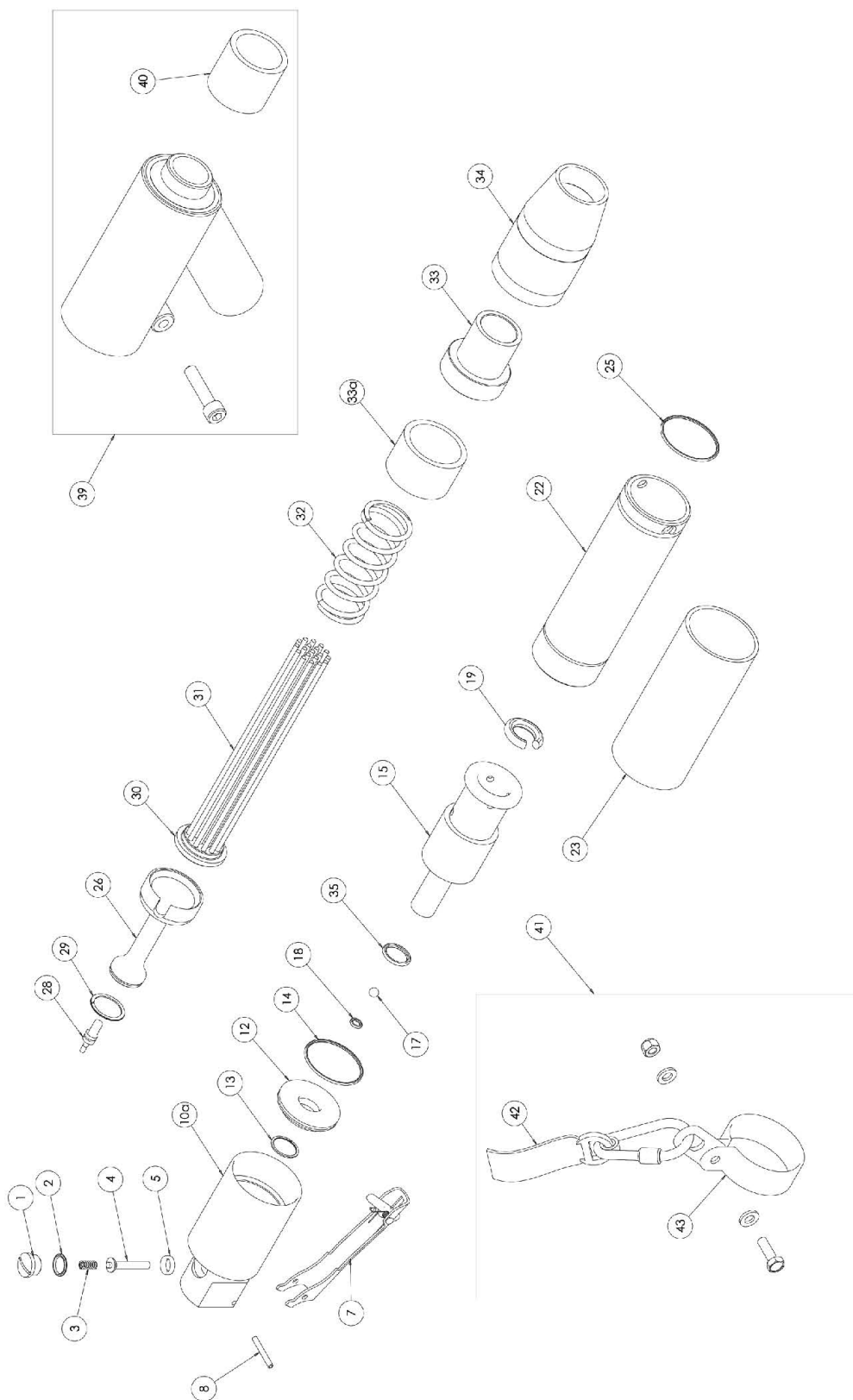
EXPLODED VIEW VL203 CHISEL SCALER



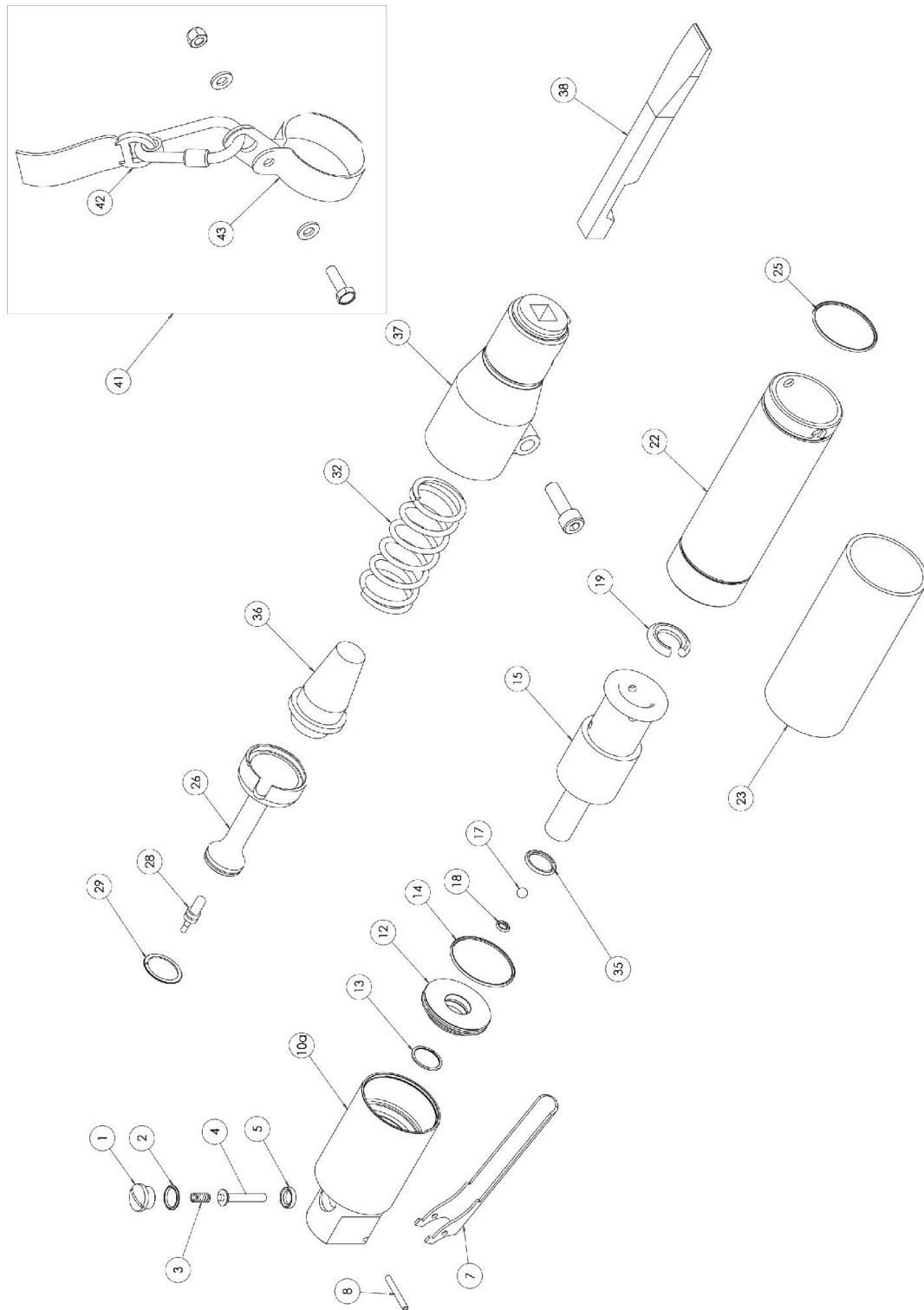
PARTS LIST VL203 NEEDLE & CHISEL SCALER

Item NO.	PART NO.	DESCRIPTION	Item NO.	PART NO.	DESCRIPTION
		Common Parts			VL203 Components
1	615.3021	Valve Cap	10	425.2003	VL203 Cover Assembly (Pistol Grip)
2	809.0139	Valve Cap O'Ring			
3	712.3022	Valve Spring	12	652.2003	Guide Plate
4	618.3022	Valve Stem	13	829.2003	Guide Plate Seal
5	809.0089	Valve Seat O'Ring	14	809.0299	Guide Plate O'Ring
	616.3021	Valve Body (Not available separately see 423.3021)	15	428.2003	Cylinder
6	423.3021	Valve Body Assembly BSP Thread (incl items 1-8)	19	809.2004	Piston Cushion
			22	622.2031	Intermediate Tube
7	716.3000	Throttle Lever	23	721.2003	Intermediate Tube Outer Sleeve
	716.1000	Safety Throttle Lever	25	809.0299	Front Tube Locking O'Ring
8	813.0108	Roll Pin	26	612.2003	Piston
9	717.3050	Rubber Handle Grip	29	829.2002	Piston Ring
17	816.3003	Rubber Ball 6mm diameter	30	601.2030	3mm Needle Holder (19 Needles fitted as standard)
18	809.0080	Ball Retaining O'Ring		601.2020	2mm Needle Holder (51 Needles)
28	636.3003	Valve Pin	31	413.2119	6 x Needle 3mm Chisel set (fitted as standard)
38	704.3101	Chisel 1/2" Sq Shank 7" x 3/4" Blade		412.1151	6 x Needle 2mm Flat set
	704.3103	Chisel 1/2" Sq Shank 7" x 2 1/2" Blade		413.1119	6 x Needle 3mm Flat set
	704.3205	Chisel 1/2" Sq Shank 7" x 1 3/8" Blade		413.3119	6 x Needle 3mm Pointed set
	704.3110	Chisel 1/2" Sq Shank Spark Resistant 2" Blade		403.1309	Needle set (1 x set Beryllium Copper)
			32	712.2003	Front Spring
		Not Shown	33	620.2003	Front Tube Insert
	819.2375	Connector 1/4" BSPT-3/8" Stem	33A	620.2003A	Front Tube Spacer
	446.2003	Service Kit, (2, 5,13,14,17,18,19,28,29,30,31 & 32)	34	622.2030	Front Tube
			35	809.3005	Cylinder Stem Reaction Ring
			36	610.2003	Anvil
			37	419.2003	Chisel Holder
			39	418.2003	Vacuum Shroud Assembly (with flat cuff. 40)
			40	731.2103	Flat Cuff
			41	512.2003	Fall Arrester Clamp Assembly (Inc. 42, 43)
			42	415.3003	Anti Static Lanyard
			43	720.2003	VL203/223 Arrester Clamp Assembly
				735.3009	Fitting Instructions

EXPLODED VIEW VL223 NEEDLE SCALER



EXPLODED VIEW VL223 CHISEL SCALER



VL NEEDLE & CHISEL SCALER (VL303,VL203,VL223)

PARTS LIST VL223 NEEDLE & CHISEL SCALER

Item NO.	PART NO.	DESCRIPTION	Item NO.	PART NO.	DESCRIPTION
1	615.3021	Valve Cap	36	610.2003	Anvil
2	809.0139	Valve Cap O'Ring	37	419.2003	Chisel Holder
3	712.3022	Valve Spring	38	704.3101	Chisel 1/2" Sq Shank 7" x 3/4" Blade
4	618.3022	Valve Stem		704.3103	Chisel 1/2" Sq Shank 7" x 2 1/2" Blade
5	809.0089	Valve Seat O'Ring		704.3205	Chisel 1/2" Sq Shank 7" x 1 3/8" Blade
				704.3110	Chisel 1/2" Sq Shank Spark Resistant 2" Blade
7	716.1000	Safety Throttle Lever			
			39	418.2003	Vacuum Shroud Assembly (with flat cuff. 40)
8	813.0108	Roll Pin	40	731.2103	Flat Cuff
10A	616.2003	VL223 Cover (Inline)	41	512.2003	Fall Arrester Clamp Assembly (inc. 42, 43)
	423.2023	VL223 Cover Assembly BSP Thread (inc 1-8 &10a)	42	415.3003	Anti Static Lanyard
			43	720.2003	VL203/223 Arrester Clamp Assembly
12	652.2003	Guide Plate		735.3009	Fitting Instructions
13	829.2003	Guide Plate Seal			
14	809.0299	Guide Plate O'Ring			Not Shown
15	428.2003	Cylinder		446.2003	Service Kit, (2, 5,13,14,17,18,19,28,29,30,31 set and 32)
				819.2375	Connector 1/4" BSPT-3/8" Stem
17	816.3003	Rubber Ball 6mm diameter			
18	809.0080	Ball Retaining O'Ring			
19	809.2004	Piston Cushion			
22	622.2031	Intermediate Tube			
23	721.2003	Intermediate Tube Outer Sleeve			
25	809.0299	Front Tube Locking O'Ring			
26	612.2003	Piston			
28	636.3003	Valve Pin			
29	829.2002	Piston Ring			
30	601.2030	3mm Needle Holder (19 Needles fitted as standard)			
	601.2020	2mm Needle Holder (51 Needles)			
31	413.2119	6 x Needle 3mm Chisel set (fitted as standard)			
	412.1151	6 x Needle 2mm Flat set			
	413.1119	6 x Needle 3mm Flat set			
	413.3119	6 x Needle 3mm Pointed set			
	403.1319	Needle set (1 x set Beryllium Copper)			
32	712.2003	Front Spring			
33	620.2003	Front Tube Insert			
33A	620.2003A	Front Tube Spacer			
34	622.2030	Front Tube			
35	809.3005	Cylinder Stem Reaction Ring			