

This Class 604 is considered to be an integral part of Class 128 (see the Class 128 schedule for the position of this Class in schedule hierarchy). This Class retains all pertinent definitions and class lines of Class 128.

- 890.1 **CONTROLLED RELEASE THERAPEUTIC DEVICE OR SYSTEM**
- 891.1 .Implanted dynamic device or system
- 892.1 .Osmotic or diffusion pumped device or system
- 1 **SWAB INCLUDING HANDLE (E.G., STICK, ETC.) WITH ABSORBENT MATERIAL AT END THEREOF**
- 2 .Body treating material fed to absorbent material
- 3 ..Means broken, cut, pierced, or torn to permit flow of material
- 4.01 **BLOOD DRAWN AND REPLACED OR TREATED AND RETURNED TO BODY**
- 5.01 .Constituent removed from blood and remainder returned to body
- 5.02 ..Pathogenic component removed
- 5.03 ..Lipidic material removed
- 5.04 ..Toxic material removed
- 6.01 ..Component of blood removed (i.e., pheresis)
- 6.02 ...Erythrocyte
- 6.03 ...Leukocyte
- 6.04 ...Plasma
- 6.05 ...Single needle
- 6.06 ...Arterial and venous needles
- 6.07 ..Anticoagulant added
- 6.08 ..Infrared, visible light, ultraviolet, x-ray or electrical energy applied into blood
- 6.09 ..Filter means
- 6.1 ..Valve means
- 6.11 ..Pumping means
- 6.12 ...Injector or aspirator syringe supported only by person during use
- 6.13 ..Heating or cooling means
- 6.14 ..Oxygenating means
- 6.15 .Blood collection container

- 6.16 .Body inserted tubular conduit structure
- 7 **BLOOD TRANSFERRED BETWEEN DIFFERENT BODIES ALONG CONTINUOUS FLOW PATH (E.G., TRANSFUSION, ETC.)**
- 8 **DEVICES TRANSFERRING FLUIDS FROM WITHIN ONE AREA OF BODY TO ANOTHER (E.G., SHUNTS, ETC.)**
- 9 .With flow control means (e.g., check valves, hydrocephalus pumps, etc.)
- 10 ..With antisiphon means
- 11 **MEANS FOR INSERTING FIBROUS OR FORAMINOUS RESIDENT PACKING, RECEPTOR, OR MEDICAMENT CARRIER INTO BODY ORIFICE**
- 12 .With lubricating means
- 13 .With means for ejecting continuous length insert (e.g., gauze packing)
- 14 .Distal portion of inserting means deformed, expanded, or ruptured to permit passage of insert therefrom
- 15 .With slidable ejector (e.g., plunger or ram, etc.) inside tubular inserting means
- 16 ..Ejector moved into operating position from stored location inside or alongside inserting means
- 17 ...Ejector pivoted or swung into operating position
- 18 ..Tubular inserting means releasably interlocked with ejector
- 19 **MEANS FOR INTRODUCING OR REMOVING MATERIAL FROM BODY FOR THERAPEUTIC PURPOSES (E.G., MEDICATING, IRRIGATING, ASPIRATING, ETC.)**
- 20 .Infrared, visible light, ultraviolet, X-ray or electrical energy applied to body (e.g., iontophoresis, etc.)
- 21 ..With tubular injection means inserted into body
- 22 .With means for cutting, scarifying, or vibrating (e.g., ultrasonic, etc.) tissue
- 23 .Gas application

24	..Gas mixed with other material	501	...Enhanced absorption of therapeutic material internally using iontophoretic treatment
25	..Ozone		
26	..Gas injected into body canal or cavity		
27	..Material introduced into and removed from body through passage in body inserted means	502	...Therapeutic material introduced by subcutaneous implant (e.g., peritoneal injectors)
28	..Method		
29	..Peritoneal dialysis	503	...Therapeutic material introduced or removed in response to a sensed body condition
30	..Flow control		
31	...By self-acting means or condition responsive sensor		
32	...Rotary valve	504	...By measurement of a metabolite concentration (i.e., glucose)
33	...Slide or reciprocating valve		
34	..Deformable occluding tube valve	505	...By measurement of a pressure differential
35	..With aspirating or vacuum removing means	506	...Therapeutic material introduced or removed through a piercing conduit (e.g., trocar) inserted into body
36	..Means moved by person to introduce and remove material		
37	...Hand-supported squeeze bulb	507	...Therapeutic material introduced into or removed from vasculature
38	...Piston		
39	..Structure of douche nozzle having separate ingress and egress passages therein	508	....By catheter
40	...With telescoping movement between ingress and egress passages	509	.....With expanding member (i.e., balloon)
41	...With body orifice occluding means	510	.....With associated advancing or guiding means
42	....Axially adjustable	511	...Therapeutic material introduced into or removed from musculature
43	..Body inserted conduit with separate ingress and egress passages	512	...For anesthetizing patient
44	...Having body piercing means	513	...Including docking element, port or sealing means
45	...Having air or gas venting passage	514	..Therapeutic material introduced or removed from natural body orifice
46	..Treating material introduced into body by contact with wound formed therein by solid scarifier, cutter, or the like (e.g., scratching skin with vaccine coated needle, etc.)	515	...To or from the female reproductive tract
47	..With separate applicator for material or separate holder for material placed on applicator or in wound	516	...To or from the intestines through nasal or esophageal conduit
48	..Treating material introduced into or removed from body orifice, or inserted or removed subcutaneously other than by diffusing through skin	517	...To or from the urogenital system
		518	..Liquid therapeutic material administered with solid or second liquid
		519	...Delivered via in-line cartridge
		520	...Requiring puncture of medicant package
500	..Method	521	...Therapeutic material to facilitate ocular treatment

522	...Introduction of biologically derived compounds (i.e., growth hormones or blood products) including cells	81	...With self-acting sequential flow from reservoirs
57	..Means for placing solid treating material in body	82	..Means for intermixing liquid with solid or different liquid
58	...Powder dispenser	83	...Treating material introduced directly into liquid stream path
59	..Means for ejecting solid from holder	84	...Solid treating material
60	...Solid ejected from body inserted conduit	85	...Liquid stream passes through reservoir containing treating material
61	....Eject means moved by force applied to trigger associated with pistol grip	86	...Septum pierced by conduit
62	....Solid units successively fed to conduit from supply means (e.g., magazine, etc.)	87	..Means broken, cut, pierced or torn to permit mixing
63	....Eject means driven by spring	88	...Septum
64	....Solid loaded into injector through opening in side wall of plunger housing	89	..Closure or barrier between compartments moved to permit mixing
65	..Material flow varying means controlled by condition responsive sensor	90	...Closure moved, expanded, or flexed by force transmitted by liquid
66	...Sensor responsive to body condition	91	...Closure moved by relative movement between closure and separate protruding member
67	...Sensor controls pump, motor, or pressure driven means	92	...Solid dissolved in liquid
68	..Needleless hypodermic injector	93.01	..Material introduced or removed through conduit, holder, or implantable reservoir inserted in body
69	..Material expelled from injector by explosive charge	94.01	...Dual nozzles for insertion into paired body orifices (e.g., nasal passages, etc.)
70	..Material expelled from injector by pressurized fluid	95.01	...Conduit with self-propelled or remote control means
71	..Multidose type	95.02	...Having port to expel fluid into body to propel conduit
72	...Structure of material reservoir replaceably held in injector	95.03	...Having flexible member (e.g., bellow, balloon, etc.) to propel conduit
73	..Means forceably introducing or removing material from body orifice or wound	95.04	...Having tensioning means to alter conduit shape
74	...Lacteal extractors (e.g., breast pump, etc.)	95.05	...Having remote control for applying light, electricity, or heat to alter conduit shape (e.g., shape memory alloy, etc.)
75	....With collapsible bulb means	96.01	..Having means inflated in body (e.g., inflatable nozzle, dilator, balloon catheter, occluder, etc.)
76	....With suction generated orally by person or user	97.01	...Including means forcing inflation fluid into inflatable means
77	..Structure of means contacting portion of head (e.g., tongue, etc.) during placement of treating material in mouth or throat	97.02	....Injector type
78	...Drinking cup	97.03	.....Having indicator means
79	..Means for engaging head to hold feed device in mouth		
80	..Gravity feed to body from plural material reservoirs		

98.01	.....Pressurized inflation means	103.08	.....Particular surface characteristics (e.g., rib, groove, corrugation, etc.)
98.02	.....Compressible bulb	103.09	...Having reinforcing means (e.g., reinforcing coil, etc.)
99.01	...Having inflation or deflation control means	103.1	...Having radiopaque characteristics (e.g., ring, marker, tip, etc.)
99.02	.....Valve controlling means	103.11	...Of elastic inflated material
99.03	.....One-way valve	103.12	.....Having inelastic portion
99.04	...Having valve means (e.g., ball valve, etc.) in fluid or material delivery lumen	103.13	...Of inelastic inflated material
100.01	...Having indicator means	103.14	.....Foldable
100.02	.....Visual calibration	104	...Having means expanding body orifice or canal (e.g., dilator, retaining means, etc.)
100.03	.....Displaying inflation or deflation data	105	...Expanding bow
101.01	...Having plural balloons on conduit	106	...Expanding arm or finger
101.02	.....Balloon within another balloon on conduit	107	.....Expansion actuated by axially movable member
101.03	.....Having aperture in conduit between balloons	108	.....Rotatable means actuates axially movable member
101.04	.....Balloon on different device	109	.....Expansion actuated by rotatable means (e.g, threaded or cammed member, etc.)
101.05	.....Axially spaced balloons	110	...Having means for preventing reuse of device
102.01	...Having aperture in conduit proximal of inflated means	111	...Having means for indicating device is defective , used, or tampered with
102.02	.....Lumen extending from aperture proximal of inflated means to distal end	112	...Having means for desensitizing skin
102.03	.....Lumen extending from proximal end to aperture proximal of inflated means	113	...Having means for cooling or heating body, treating or collected material or device
103	...With means bonding or mechanically securing balloon sleeve or connector member (e.g., coupling funnel, etc.) to conduit	114	...Electric means
103.01	...Delivering fluid or material through wall of inflated means	115	...Having means for protruding skin to facilitate piercing it
103.02	...Delivering fluid or material from external surface of inflated means	116	...Having means for locating or identifying point where body is to be pierced (e.g., apertured body fitting template, etc.)
103.03	...Having means to retain conduit or inflated means in position (e.g., depth control, external seal, etc.)	117	...Having structure for controlling depth of insertion of body piercer
103.04	...Rapid exchange type (e.g., monorail, etc.)	118	...Having means for varying, regulating, indicating, or limiting injection pressure or aspirating suction
103.05	...Having sheath enclosing balloon	119	...Means varying or regulating suction
103.06	...Particular wall structure of inflated means (e.g., varying wall thickness, multilayer, etc.)	120	.....With cyclic or timed regulation
103.07	.....Specific balloon shape (e.g., doughnut, pear, hour glass, etc.)		

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|-----|---|-----|---|
| 121 | ....On piston type injector or aspirator  | 144 | .....And impelling material conduit into body   |
| 122 | ...Having means for eliminating and/or preventing injection of air into body  | 145 | ....Pressurizing gas generated by chemical reaction   |
| 123 | ....From pump injection device  | 146 | ....Pressurizing gas or vacuum charge produced by mechanical actuator (e.g., air pump, etc.) associated with injector |
| 124 | ....From injection means moved by person to impel material into body  | 147 | ....Pressurizing gas or vacuum charge supplied by external storage source   |
| 125 | ....From hand supported injection means   | 148 | ....Means broken, cut, pierced, or torn to permit material flow   |
| 126 | ....By hydrophilic or hydrophobic filters   | 149 | ...Material impelled by negative pressure created by current of fluid (e.g., air entrainment, etc.)                   |
| 127 | ....By low level float cutoff   | 150 | ...Material impelled by hydraulic or water hydrant pressure   |
| 128 | ...Having siphon means for removing material from external source or body   | 151 | ...Material impelled by pump  |
| 129 | ....With vacuum breaking means (e.g., vent, etc.)   | 152 | ....Reciprocating piston type   |
| 130 | ...Having projectile injector operated upon impact with body  | 153 | ....Deformable resilient chamber type   |
| 131 | ...Treating material forced into or out of body by self-acting fluid pressure, motor-driven, or mechanical energy storing means (e.g., pressure infusion or aspiration, etc.) | 154 | ...Material impelled by nonreciprocating piston driven by motor   |
| 132 | ...Material impelled into body by contraction of expanded elastic material reservoir  | 155 | ....With threaded drive means   |
| 133 | ...Material exhausted from body by expansion of contracted elastic receptacle or resilient means therein  | 156 | ...Conduit forced into body by self-acting fluid pressure, motor-driven, or mechanical energy storing means           |
| 134 | ....Material impelled by spring   | 157 | ...Conduit impelled by spring   |
| 135 | ....Spring drives piston  | 158 | ...Body entering conduit axially movable within body piercing conduit while former is disposed in the body            |
| 136 | ....Material conduit forced into body by spring   | 159 | ...Having mechanical means for feeding conduit through piercing conduit   |
| 137 | .....Spring triggered by skin contacting means  | 160 | ...Having longitudinal groove or slot in piercing conduit to permit removal from body entering conduit                |
| 138 | .....Portion of conduit stored in material supply means   | 161 | ...Piercing conduit longitudinally separable for removal from body entering conduit                                   |
| 139 | .....Material supply means pierced by conduit   | 162 | ...Having guard on piercing conduit for protecting body entering conduit  |
| 140 | ...Material impelled by pressurized charge of gas or vacuum   | 163 | ...Having bag or sheath enclosing body entering conduit   |
| 141 | ....Material impelled by means (e.g., diaphragm, piston) moved by gas or vacuum pressure  |     |   |
| 142 | .....Reservoir prepressurized or exhausted by squeeze bulb  |     |   |
| 143 | .....Piston impelled by gas or vacuum pressure  |     |   |

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