1	PROCESSES	15.18	Valve or valve element
2	.With control of flow by a		assembling, disassembling, or
	condition or characteristic of		replacing
	a fluid	15.19	Fluid actuated or retarded
3	Mixing of plural fluids of	15.21	Multi way valve
	diverse characteristics or	15.22	Ball valve or rotary ball
	conditions		valve
4	Controlled by consistency of	15.23	Gate valve
	mixture	15.24	Plug valve
5	Controlled by conductivity of	15.25	Butterfly valve
	mixture	15.26	Float valve
6	Controlled by heat of	15.1	HIGHSPEED FLUID INTAKE MEANS
	combustion of mixture		(E.G., JET ENGINE INTAKE)
7	Controlled by pressure	15.2	.With condition responsive
8	For producing uniform flow		control means
9	For producing proportionate	38	CONTROL BY CHANGE OF POSITION OR
	flow		INERTIA OF SYSTEM
10	By speed of fluid	39	.With second control
11	For regulating boiler feed	40	.Position relative body of water
	water level		(e.g., marine governors)
12	By fluid pressure	41	Float controlled
12.5	.Carbonated beverage handling	42	Pressure or head controlled
	processes	43	.Vent opening or closing on
13	.Affecting flow by the addition		tipping container
	of material or energy	44	.By shifting of liquid level
14	.Involving pressure control	45	.By pendulum or swinging member
15.01	.Cleaning, repairing, or	46	With servo connection to valve
10.01	assembling	47	SPEED RESPONSIVE VALVE CONTROL
15.02	Repairing or assembling hydrant	48	.Acceleration responsive valve
13.02	(e.g., fireplug, etc.)		control
15.03	Gas or water meter repairing or	49	.With manual valve control
20.00	assembling	50	.Speed change and excess speed
15.04	Fluid cleaning or flushing		valve control
15.05	Liquid cleaning or flushing	51	.With other condition responsive
15.06	Valve or valve seat cleaning		valve control
15.07	Mechanical cleaning (e.g., pig,	52	Governor drive failure
13.07	etc.)		responsive
15.08	Repairing, securing, replacing,	53	.Centrifugal mass type (exclusive
13.00	or servicing pipe joint,		of liquid)
	valve, or tank	54	With multiple valves
15.09	Including joint or coupling	55	Periodically actuated valve
15.11	Detecting or repairing leak	56	Rotating valve and rotating
15.12	Tapping pipe, keg, or tank		governor
15.13	Particular aperture forming	57	Excess speed responsive
13.13	means	58	With fluid servo-motor
15.14	Cutter or cutting tool	59	FREEZE CONDITION RESPONSIVE
15.15	Having deformable or	33	SAFETY SYSTEMS
13.13	inflatable means	60	.With freeze waste
15.16	With content loading or	61	.Stop and waste
T).TO	unloading (e.g., dispensing,	62	.Low temperature responsive
	discharge assistant, etc.)	V2	drains
15.17	Specific valve or valve		arariib
T 3 • T 1	element mounting or repairing		

65	COMBUSTION FAILURE RESPONSIVE	81.1	Pressure
0.5	FUEL SAFETY CUT-OFF FOR	81.2	Pressure .Underwater
	BURNERS	803	FLOW AFFECTED BY FLUID CONTACT,
66	.Thermo-electric	003	ENERGY FIELD OR COANDA EFFECT
67	DESTRUCTIBLE OR DEFORMABLE		(E.G., PURE FLUID DEVICE OR
	ELEMENT CONTROLLED		SYSTEM)
68.11	.Destructible element	804	.Responsive to condition external
68.12	Combined destructible and		of system
	fusible element	805	And causing change or
68.13	Explosive actuation		correction of sensed condition
68.14	Separable valve coupling or	806	.Utilizing diverse fluids
	conduit	807	.Utilizing particular fluid
68.15	Tensile or sheer pin or bolt	808	.Means to cause rotational flow
68.16	Tensile or sheer pin or bolt		of fluid (e.g., vortex
68.17	Pressure causes pin or bolt to		generator)
	destruct	809	Plural vortex generators
68.18	With alarm or indicator	810	Vortex generator as control for
68.19	Rupture disc		system
68.21	Means for holding entire disc	811	Vortex generator in interaction
	after rupture		chamber of device
68.22	Disc burst after destruction	812	By tangential input to axial
	of additional element		output (e.g., vortex
68.23	Direct pressure causes disc to		amplifier)
	burst	813	With means to vary input or
68.24	Two-way rupture disc		output of device
68.25	Dome shape	814	.System comprising plural fluidic
68.26	Reverse buckling		devices or stages
68.27	Specific weakening point	815	Plural power inputs (e.g.,
68.28	Integral disc assembly		parallel inputs)
68.29	Knife or cutter causes disc to	816	Variable or different-value
	break		power inputs
68.3	Movable knife or cutter	817	Pulsating power input and
69	With counterbalancing element		continuous-flow power input
70	Frangible element returns	818	With variable or selectable
	pressure responsive valve		source of control-input signal
71	Having pressure responsive	819	To cascaded plural devices
	valve	820	With feedback passage(s)
72	.Heat destructible or fusible		between devices of cascade
73	With second sensing means	821	With pulsed control-input
74	In fluid flow path		signal
75	Safety cut-off	822	.Plural power inputs to single
76	With heater for destructible		device
, 0	or fusible element	823	Intersecting at interaction
77	With external closing means		region (e.g., comparator)
78.1	AMBIENT CONDITION CHANGE	824	Co-lineal, oppositely-directed
	RESPONSIVE		power inputs (e.g., impact
78.2	.For controlling soil irrigation		modulator)
78.3	Soil moisture sensing	825	.Means to regulate or vary
78.4	.Burner gas cutoff		operation of device
78.5	.Atmospheric	826	To vary frequency of pulses or
79 . 5	Temperature		oscillations
80	With additional diverse	827	By non-fluid energy field
30	control		affecting input (e.g.,
			transducer)

828	Acoustical or thermal energy	101.11	Main line flow displaces or
829	By movable element		entrains material from
830	Operating at timed intervals		reservoir
	(e.g., to produce pulses)	101.19	With electrical controller
831	Electrically-actuated element	101.21	Flow displacement element
001	(e.g., electro-mechanical		actuates electrical controller
	transducer)	101.25	Liquid level response
832	Means (e.g., valve) in control	101.27	Float controlled weir or valve
032	_	101.27	
022	input	101.29	Swinging outlet pipe
833	.Structure of body of device	101 01	controller
834	.Device including passages having	101.31	With measuring type discharge
005	V over T configuration	100	assistant
835	And feedback passage(s) or	102	.Supply and exhaust type
	path(s)	103	Vacuum or suction pulsator type
836	With particular characteristics		(e.g., milking machine)
	of control input	104	With trip linkage or snap
837	Multiple control-input		action
	passages	105	With pulsation responsive
838	And multiple or joined power-		pilot valve
	outlet passages	106	Reversing or 4-way valve
839	And enlarged interaction		systems
	chamber	107	Waste responsive to flow
840	And vent passage(s)		stoppage
841	.Device including passages having	109	.Self-controlled branched flow
	V over gamma configuration		systems
842	.Device including linearly-	110	Dividing and recombining
	aligned power stream emitter	111	Plural inflows
	and power stream collector	112	Alternate or successive
82	PRESSURE MODULATING RELAYS OR		inflows
82	PRESSURE MODULATING RELAYS OR FOLLOWERS	113	inflows Control by depletion of
	FOLLOWERS	113	Control by depletion of
83	FOLLOWERS .Jet control type		Control by depletion of source
83 84	FOLLOWERS .Jet control type .Plural series units	114	Control by depletion of sourceOne inflow supplements another
83	FOLLOWERS .Jet control type .Plural series units .With counter-balancing pressure		Control by depletion of sourceOne inflow supplements anotherBypass or relief controlled by
83 84	FOLLOWERS .Jet control type .Plural series units .With counter-balancing pressure feedback to the modulating	114 115.01	Control by depletion of sourceOne inflow supplements anotherBypass or relief controlled by main line fluid condition
83 84 85	FOLLOWERS .Jet control type .Plural series units .With counter-balancing pressure feedback to the modulating device	114 115.01 115.02	Control by depletion of sourceOne inflow supplements anotherBypass or relief controlled by main line fluid conditionLiquid level responsive
83 84	FOLLOWERS .Jet control type .Plural series units .With counter-balancing pressure feedback to the modulating deviceWith counter-counter balancing	114 115.01 115.02 115.03	Control by depletion of sourceOne inflow supplements anotherBypass or relief controlled by main line fluid conditionLiquid level responsiveFlow rate responsive
83 84 85	FOLLOWERS .Jet control type .Plural series units .With counter-balancing pressure feedback to the modulating deviceWith counter-counter balancing pressure feedback	114 115.01 115.02	Control by depletion of sourceOne inflow supplements anotherBypass or relief controlled by main line fluid conditionLiquid level responsiveFlow rate responsiveIncluding controlling main
83 84 85	FOLLOWERS .Jet control type .Plural series units .With counter-balancing pressure feedback to the modulating deviceWith counter-counter balancing pressure feedback SELF-PROPORTIONING OR CORRELATING	114 115.01 115.02 115.03 115.04	Control by depletion of sourceOne inflow supplements anotherBypass or relief controlled by main line fluid conditionLiquid level responsiveFlow rate responsiveIncluding controlling main line flow
83 84 85 86 87.01	FOLLOWERS .Jet control type .Plural series units .With counter-balancing pressure feedback to the modulating deviceWith counter-counter balancing pressure feedback SELF-PROPORTIONING OR CORRELATING SYSTEMS	114 115.01 115.02 115.03 115.04	Control by depletion of sourceOne inflow supplements anotherBypass or relief controlled by main line fluid conditionLiquid level responsiveFlow rate responsiveIncluding controlling main line flowRelief or bypass closes as
83 84 85	FOLLOWERS .Jet control type .Plural series units .With counter-balancing pressure feedback to the modulating deviceWith counter-counter balancing pressure feedback SELF-PROPORTIONING OR CORRELATING SYSTEMS .Mixture condition maintaining or	114 115.01 115.02 115.03 115.04	Control by depletion of sourceOne inflow supplements anotherBypass or relief controlled by main line fluid conditionLiquid level responsiveFlow rate responsiveIncluding controlling main line flowRelief or bypass closes as main opens
83 84 85 86 87.01	FOLLOWERS .Jet control type .Plural series units .With counter-balancing pressure feedback to the modulating deviceWith counter-counter balancing pressure feedback SELF-PROPORTIONING OR CORRELATING SYSTEMS .Mixture condition maintaining or sensing	114 115.01 115.02 115.03 115.04	Control by depletion of sourceOne inflow supplements anotherBypass or relief controlled by main line fluid conditionLiquid level responsiveFlow rate responsiveIncluding controlling main line flowRelief or bypass closes as main opensBypass or relief valve biased
83 84 85 86 87.01 88	FOLLOWERS .Jet control type .Plural series units .With counter-balancing pressure feedback to the modulating deviceWith counter-counter balancing pressure feedback SELF-PROPORTIONING OR CORRELATING SYSTEMS .Mixture condition maintaining or sensingDividing and recombining flow	114 115.01 115.02 115.03 115.04 115.05	Control by depletion of sourceOne inflow supplements anotherBypass or relief controlled by main line fluid conditionLiquid level responsiveFlow rate responsiveIncluding controlling main line flowRelief or bypass closes as main opensBypass or relief valve biased open
83 84 85 86 87.01 88 89 91	FOLLOWERS .Jet control type .Plural series units .With counter-balancing pressure feedback to the modulating deviceWith counter-counter balancing pressure feedback SELF-PROPORTIONING OR CORRELATING SYSTEMS .Mixture condition maintaining or sensingDividing and recombining flowBy specific gravity	114 115.01 115.02 115.03 115.04 115.05 115.06	Control by depletion of sourceOne inflow supplements anotherBypass or relief controlled by main line fluid conditionLiquid level responsiveFlow rate responsiveIncluding controlling main line flowRelief or bypass closes as main opensBypass or relief valve biased openPilot valve operated
83 84 85 86 87.01 88 89 91 92	FOLLOWERS .Jet control type .Plural series units .With counter-balancing pressure feedback to the modulating deviceWith counter-counter balancing pressure feedback SELF-PROPORTIONING OR CORRELATING SYSTEMS .Mixture condition maintaining or sensingDividing and recombining flowBy specific gravityBy viscosity or consistency	114 115.01 115.02 115.03 115.04 115.05 115.06	Control by depletion of sourceOne inflow supplements anotherBypass or relief controlled by main line fluid conditionLiquid level responsiveFlow rate responsiveIncluding controlling main line flowRelief or bypass closes as main opensBypass or relief valve biased open
83 84 85 86 87.01 88 89 91 92 93	FOLLOWERS .Jet control type .Plural series units .With counter-balancing pressure feedback to the modulating deviceWith counter-counter balancing pressure feedback SELF-PROPORTIONING OR CORRELATING SYSTEMS .Mixture condition maintaining or sensingDividing and recombining flowBy specific gravityBy viscosity or consistencyBy optical or chemical property	114 115.01 115.02 115.03 115.04 115.05 115.06	Control by depletion of sourceOne inflow supplements anotherBypass or relief controlled by main line fluid conditionLiquid level responsiveFlow rate responsiveIncluding controlling main line flowRelief or bypass closes as main opensBypass or relief valve biased openPilot valve operatedCarried chokeChoke
83 84 85 86 87.01 88 89 91 92	FOLLOWERS .Jet control type .Plural series units .With counter-balancing pressure feedback to the modulating device .With counter-counter balancing pressure feedback SELF-PROPORTIONING OR CORRELATING SYSTEMS .Mixture condition maintaining or sensing .Dividing and recombining flow .By specific gravity .By viscosity or consistency .By optical or chemical property .Fuel controlled by boiler or	114 115.01 115.02 115.03 115.04 115.05 115.06 115.07 115.08 115.09 115.1	Control by depletion of sourceOne inflow supplements anotherBypass or relief controlled by main line fluid conditionLiquid level responsiveFlow rate responsiveIncluding controlling main line flowRelief or bypass closes as main opensBypass or relief valve biased openPilot valve operatedCarried choke
83 84 85 86 87.01 88 89 91 92 93 94	FOLLOWERS .Jet control type .Plural series units .With counter-balancing pressure feedback to the modulating device With counter-counter balancing pressure feedback SELF-PROPORTIONING OR CORRELATING SYSTEMS .Mixture condition maintaining or sensing Dividing and recombining flow By specific gravity By viscosity or consistency By optical or chemical property .Fuel controlled by boiler or water system condition	114 115.01 115.02 115.03 115.04 115.05 115.06 115.07 115.08 115.09	Control by depletion of sourceOne inflow supplements anotherBypass or relief controlled by main line fluid conditionLiquid level responsiveFlow rate responsiveIncluding controlling main line flowRelief or bypass closes as main opensBypass or relief valve biased openPilot valve operatedCarried chokeChoke
83 84 85 86 87.01 88 89 91 92 93 94	FOLLOWERS .Jet control type .Plural series units .With counter-balancing pressure feedback to the modulating device .With counter-counter balancing pressure feedback SELF-PROPORTIONING OR CORRELATING SYSTEMS .Mixture condition maintaining or sensing .Dividing and recombining flow .By specific gravity .By viscosity or consistency .By optical or chemical property .Fuel controlled by boiler or water system condition .Self-proportioning flow systems	114 115.01 115.02 115.03 115.04 115.05 115.06 115.07 115.08 115.09 115.1	Control by depletion of sourceOne inflow supplements anotherBypass or relief controlled by main line fluid conditionLiquid level responsiveIncluding controlling main line flowRelief or bypass closes as main opensBypass or relief valve biased openPilot valve operatedCarried chokeChokeVariable choke resistance
83 84 85 86 87.01 88 89 91 92 93 94	FOLLOWERS .Jet control type .Plural series units .With counter-balancing pressure feedback to the modulating device With counter-counter balancing pressure feedback SELF-PROPORTIONING OR CORRELATING SYSTEMS .Mixture condition maintaining or sensing Dividing and recombining flow By specific gravity By viscosity or consistency By optical or chemical property .Fuel controlled by boiler or water system condition	114 115.01 115.02 115.03 115.04 115.05 115.06 115.07 115.08 115.09 115.1	Control by depletion of sourceOne inflow supplements anotherBypass or relief controlled by main line fluid conditionLiquid level responsiveFlow rate responsiveIncluding controlling main line flowRelief or bypass closes as main opensBypass or relief valve biased openPilot valve operatedCarried chokeChokeVariable choke resistance
83 84 85 86 87.01 88 89 91 92 93 94	FOLLOWERS .Jet control type .Plural series units .With counter-balancing pressure feedback to the modulating device .With counter-counter balancing pressure feedback SELF-PROPORTIONING OR CORRELATING SYSTEMS .Mixture condition maintaining or sensing .Dividing and recombining flow .By specific gravity .By viscosity or consistency .By optical or chemical property .Fuel controlled by boiler or water system condition .Self-proportioning flow systems	114 115.01 115.02 115.03 115.04 115.05 115.06 115.07 115.08 115.09 115.1 115.1 115.1	Control by depletion of sourceOne inflow supplements another .Bypass or relief controlled by main line fluid conditionLiquid level responsiveFlow rate responsiveIncluding controlling main line flowRelief or bypass closes as main opensBypass or relief valve biased openPilot valve operatedCarried chokeChokeVariable choke resistanceVenturiFlapper
83 84 85 86 87.01 88 89 91 92 93 94	FOLLOWERS .Jet control type .Plural series units .With counter-balancing pressure feedback to the modulating device With counter-counter balancing pressure feedback SELF-PROPORTIONING OR CORRELATING SYSTEMS .Mixture condition maintaining or sensing Dividing and recombining flow By specific gravity By viscosity or consistency By optical or chemical property .Fuel controlled by boiler or water system condition .Self-proportioning flow systems Interconnected flow	114 115.01 115.02 115.03 115.04 115.05 115.06 115.07 115.08 115.09 115.1 115.11 115.12 115.13	Control by depletion of sourceOne inflow supplements anotherBypass or relief controlled by main line fluid conditionLiquid level responsiveFlow rate responsiveIncluding controlling main line flowRelief or bypass closes as main opensBypass or relief valve biased openPilot valve operatedCarried chokeChokeVariable choke resistanceVenturiFlapperPressure responsive
83 84 85 86 87.01 88 89 91 92 93 94 98	FOLLOWERS .Jet control type .Plural series units .With counter-balancing pressure feedback to the modulating device .With counter-counter balancing pressure feedback SELF-PROPORTIONING OR CORRELATING SYSTEMS .Mixture condition maintaining or sensing .Dividing and recombining flow .By specific gravity .By viscosity or consistency .By optical or chemical property .Fuel controlled by boiler or water system condition .Self-proportioning flow systems .Interconnected flow displacement elements	114 115.01 115.02 115.03 115.04 115.05 115.06 115.07 115.08 115.09 115.1 115.11 115.12 115.13	Control by depletion of sourceOne inflow supplements anotherBypass or relief controlled by main line fluid conditionLiquid level responsiveFlow rate responsiveIncluding controlling main line flowRelief or bypass closes as main opensBypass or relief valve biased openPilot valve operatedCarried chokeChokeVariable choke resistanceVenturiFlapperPressure responsiveWith pressure reducing inlet
83 84 85 86 87.01 88 89 91 92 93 94 98 99	FOLLOWERS .Jet control type .Plural series units .With counter-balancing pressure feedback to the modulating device With counter-counter balancing pressure feedback SELF-PROPORTIONING OR CORRELATING SYSTEMS .Mixture condition maintaining or sensing Dividing and recombining flow By specific gravity By viscosity or consistency By optical or chemical property .Fuel controlled by boiler or water system condition .Self-proportioning flow systems Interconnected flow displacement elements Movable trap chamber	114 115.01 115.02 115.03 115.04 115.05 115.06 115.07 115.08 115.09 115.1 115.11 115.12 115.13 116.3	Control by depletion of sourceOne inflow supplements anotherBypass or relief controlled by main line fluid conditionLiquid level responsiveFlow rate responsiveIncluding controlling main line flowRelief or bypass closes as main opensBypass or relief valve biased openPilot valve operatedCarried chokeChokeVariable choke resistanceVenturiFlapperPressure responsiveWith pressure reducing inlet valve
83 84 85 86 87.01 88 89 91 92 93 94 98 99	FOLLOWERS .Jet control type .Plural series units .With counter-balancing pressure feedback to the modulating device With counter-counter balancing pressure feedback SELF-PROPORTIONING OR CORRELATING SYSTEMS .Mixture condition maintaining or sensing Dividing and recombining flow By specific gravity By viscosity or consistency By optical or chemical property .Fuel controlled by boiler or water system condition .Self-proportioning flow systems Interconnected flow displacement elements Movable trap chamber Flow comparison or differential	114 115.01 115.02 115.03 115.04 115.05 115.06 115.07 115.08 115.09 115.1 115.11 115.12 115.13 116.3	Control by depletion of sourceOne inflow supplements anotherBypass or relief controlled by main line fluid conditionLiquid level responsiveFlow rate responsiveIncluding controlling main line flowRelief or bypass closes as main opensBypass or relief valve biased openPilot valve operatedCarried chokeChokeVariable choke resistanceVenturiFlapperPressure responsiveWith pressure reducing inlet valveRelief port through common
83 84 85 86 87.01 88 89 91 92 93 94 98 99	FOLLOWERS .Jet control type .Plural series units .With counter-balancing pressure feedback to the modulating device With counter-counter balancing pressure feedback SELF-PROPORTIONING OR CORRELATING SYSTEMS .Mixture condition maintaining or sensing Dividing and recombining flow By specific gravity By viscosity or consistency By optical or chemical property .Fuel controlled by boiler or water system condition .Self-proportioning flow systems Interconnected flow displacement elements Movable trap chamber Flow comparison or differential response	114 115.01 115.02 115.03 115.04 115.05 115.06 115.07 115.08 115.09 115.1 115.11 115.12 115.13 116.3	Control by depletion of sourceOne inflow supplements anotherBypass or relief controlled by main line fluid conditionLiquid level responsiveFlow rate responsiveIncluding controlling main line flowRelief or bypass closes as main opensBypass or relief valve biased openPilot valve operatedCarried chokeChokeVariable choke resistanceVenturiFlapperPressure responsiveWith pressure reducing inlet valveRelief port through common

115.14	Common sensor for both bypass or relief valve and other branch valve	119.07 119.08 119.09	Flow sensing turbinePressure responsiveResponsive to outlet
115.15	Bypass or relief valve opens as other branch valve closes	119.1	pressureElectrical control
115.16	Bypass or relief valve biased open	87.02 87.03	.Liquid level responsive .Flow rate responsive
115.17	Increasing pressure	87.04	Pressure differential
	progressively closes then reopens by-pass or relief	87.05	.Plural sensors
	valve	87.06 123	For single valve
115.18	Bypass or relief valve	123	Plural
	responsive to pressure	125	Tank truck mounted
	downstream of outlet valve	126	Sequentially discharging in
115.19	Pilot valve	120	parallel
115.2	Outlet valve carried by	127	From plural tanks
	bypass or relief valve	128	Main siphon with auxiliary
115.21	Plural sensors for single bypass or relief valve		starting, stopping or resetting siphon
115.22	Sensors interconnected by	129	Sinking or bucket-type float
	timing or restrictive orifice	_	operated main siphon, float
115.23	Pilot valve operated		emptying auxiliary siphon
115.24	Mechanical movement between	130	.With discharge-controlling
	sensor and valve		receiver
115.25	Electrical control	131	With float
115.26	Sensor rigid with valve	132	.Periodic or accumulation
115.27	Flexible sensor		responsive discharge
115.28	Pressure responsive outlet valve	133	With manual control
118.01	Plural outflows	134	Control by filling auxiliary tank
118.02	Single actuator operates	135	Float-operated inlet to siphon
	plural outlets simultaneously	136	Release of trapped air
118.03	Biased open isolation valve	137	Through float-operated vent
118.04	Flow rate responsive	138	Through liquid trap seal
118.05	Primer valve	139	Auxiliary liquid trap seal
118.06	Pressure responsive	140	.With strainer, filter, separator
118.07	With external control for		or sediment trap
	<pre>correlating valve (e.g., manual)</pre>	141	.With recorder, register, signal, indicator or inspection window
119.01	Alternately or successively substituted outflow	142	.With flow starting, stopping or maintaining means
120	Control by filling auxiliary	143	Siphon venting or breaking
	gravitating or float operating tank	144	With leakage or entrained air removal
121	Control by filling outlet tank or receiver	145	Pressure applied to liquid in supply chamber
122	Float controlled	146	Plunge or immersion starting
119.02	Four port reversing valve	147	Pump or liquid displacement
119.03	Responsive to pressure or		device for flow passage
	flow interruption	148	Piston
119.04	Plural outlets control with	149	Co-axial within flow passage
444	automatic reset	150	Collapsible bulb
119.05	<pre>Manually set to a single outflow position</pre>	150.5	Siphon inlet movable to and from seat
119.06	Flow rate responsive		

151	With valve or closure in-flow passage	178	With alternately operated inlet and outlet valves
152	.With means for mounting and/or	179	With non-discriminating gas
	positioning relative to siphon	100	vent or liquid discharge
153	chamber .Elements	180	Abnormal pressure responsive liquid blow-off or drain
154	DIVERSE FLUID CONTAINING PRESSURE	181	Manual control
101	SYSTEMS	182	With auxiliary inlet or by-
155	.Gas lift valves for wells	102	pass valve
156	.Gas pressure discharge of	183	With fluid responsive valve
130	liquids feed traps (e.g., to	184	
	boiler)	185	Successively opened valves
157	Gas pressure controlled by	100	Gas collecting float (e.g., inverted bucket)
137	amount of liquids in boiler or	186	•
	discharge receiver	187	Downstream from valve
158	Pressure connection at liquid	-	Level responsive
130	level in boiler or discharge	188	Weight or pressure
	receiver	189	Gravitating vessel
159	Gas pressure controlled by	190	Sinking or bucket type
139	amount of liquid in trap		float
160	Plural trap chambers	191	Servo-control
161	Gravitating	192	Float
162	GravitatingGravitating vessel	193	With main line gas outlet
	5		from trap chamber
163	Sinking or bucket type float	194	With outlet extending above
164	Pivoted vessel with fluid		liquid in trap
4.65	passage through pivot	195	Servo-control
165	Float responsive	196	With pressure balanced
166	Liquid control valve		outlet valve
	positively actuated	197	Discriminating outlet for gas
167	Gas condensing type	198	With reverse flow stop or
168	Gas inlet and outlet valves		pressure regulating valve
	unitary	199	Fluid sensing valve
169	Gas pressure controlled by	200	With vaporized liquid stop
170	manual or cyclic meansMovable trap chamber	201	With separate return for
170.1	.Foam control in gas charged	0.00	condensate
170.1	liquids	202	Float responsive
170.2	Level or pressure responsive	203	With liquid emptying means
170.2	Separate handling of foam	204	Self-emptying
170.3	With conditioning trap or	205	Liquid filling by evacuating
170.4	chamber		container
170.5	Recarbonation	205.5	.Main line flow displaces
170.5	With trap or chamber by-pass		additive from shunt reservoir
170.0	with trap of chamber by-pass .Fluid separating traps or vents	206	.Gas pressure storage over or
172			displacement of liquid
	Liquids separated from liquid	207	Surge suppression
173	Plural discriminating outlets for diverse fluids	207.5	With return of liquid to supply
171		208	Plural units
174	Common actuator for control valves	209	With gas maintenance or application
175	Choke or restricted passage	210	Gas carried by or evolved from
	gas bleed		liquid
176	From above liquid level	211	Gas injectors
177	Discriminating outlet for	211.5	Gas injectors
	liquid	211·J	pressure or flow
	-		Proporto of trow

212	Unitary mounting for gas	241	Steam sterilizing
	pressure inlet and liquid	242	Mechanical cleaning
	outlet	243	Valve grinding motion of valve
213	With liquid level responsive		on seat
014	gas vent or whistle	243.1	Concentric stem
214	Combined high and low level	243.2	Spring pressed
015	responsive	243.3	Lost motion permits grinding
215	BACK FLOW PREVENTION BY VACUUM	243.4	With swivel-preventing means
	BREAKING (E.G., ANTI-SIPHON DEVICES)	243.5	Nut releasable from body and/
216	.Air vent in liquid flow line	243.6	or stem
216.1	With liquid seal in liquid flow	243.0	With independent grinding
210.1	line	243.7	actuatorSeparable
216.2	Automatic valve in vent line	243.7	Cleaning member reciprocates
217	Valved	244	in passage
218	With co-acting valve in liquid	245	By-pass cleaning
	flow path	245.5	Independent actuation
219	LARNER-JOHNSON TYPE VALVES; I.E.,	246	Liquid supplied at valve
	TELESCOPING INTERNAL VALVE IN	210	interface
	EXPANDED FLOW LINE SECTION	246.11	Plural feed
220	.Line condition change responsive	246.12	Line pressure feed
221	.Internal servo-motor with	246.13	Feed by or with actuation
	internal pilot valve	246.14	Loss control
222	Pilot controlled passage in	246.15	Screw feed
	nose or needle	246.16	With check valve
223	INFLATABLE ARTICLE (E.G., TIRE	246.17	Excess relief
	FILLING CHUCK AND/OR STEM)	246.18	Jacking
224	.With pressure-responsive	246.19	Jacking
	pressure-control means	246.2	Seating
224.5	Pulsating	246.21	Spring biased piston feed
225	Diaphragm, bellows or	246.22	External pressure
006	expansible tube	246.23	Gravity or capillary feed
226	Co-axial inflation and relief	247	WITH LIQUID VALVES OR LIQUID TRAP
227	valves		SEALS
227	.With gauge or indicatorWith deflating means	247.11	.Liquid seal in liquid flow line;
229	Selectively connected		flow liquid forms seal
230	serectively connected .Stem attached relief valve	247.13	Valves
231	.With coupling means	247.15	Line condition change
232	.With cap		responsive
233	Valve actuating, assembling or	247.17	Plural valves or valve seats
233	locking means on cap	247.19	Pivoted valve
234	Valve manually seated	247.21	Ball valve
234.5	.Removable valve head and seat	247.23	Seats vertically up
231.3	unit (valve insides)	247.25	Seal replenishers
234.6	WITH VEHICLE GUIDE OR SUPPORT,	247.27	Plural inlet
		247.29	Divided and recombined passages
236.1	E.G., SERVICE STATION DISTRIBUTION SYSTEMS INVOLVING	247.31	Tangential inlet flow
236.1	E.G., SERVICE STATION		Tangential inlet flowDownward partition encircles
236.1	E.G., SERVICE STATION DISTRIBUTION SYSTEMS INVOLVING	247.31 247.33	Tangential inlet flowDownward partition encircles projecting outlet
	E.G., SERVICE STATION DISTRIBUTION SYSTEMS INVOLVING GEOGRAPHIC FEATURES	247.31247.33247.35	Tangential inlet flowDownward partition encircles projecting outletSubmerged inlet pipe end
	E.G., SERVICE STATION DISTRIBUTION SYSTEMS INVOLVING GEOGRAPHIC FEATURES WITH CLEANER, LUBRICATION ADDED	247.31 247.33 247.35 247.37	Tangential inlet flowDownward partition encircles projecting outletSubmerged inlet pipe endHinged seal bowl
237	E.G., SERVICE STATION DISTRIBUTION SYSTEMS INVOLVING GEOGRAPHIC FEATURES WITH CLEANER, LUBRICATION ADDED TO FLUID OR LIQUID SEALING AT	247.31247.33247.35	 Tangential inlet flow Downward partition encircles projecting outlet Submerged inlet pipe end Hinged seal bowl Distinct seal bowl in flow
237 238 239	E.G., SERVICE STATION DISTRIBUTION SYSTEMS INVOLVING GEOGRAPHIC FEATURES WITH CLEANER, LUBRICATION ADDED TO FLUID OR LIQUID SEALING AT VALVE INTERFACE .Cleaning or steam sterilizingReverse fluid flow	247.31 247.33 247.35 247.37 247.39	Tangential inlet flowDownward partition encircles projecting outletSubmerged inlet pipe endHinged seal bowlDistinct seal bowl in flow line connected casing
237	E.G., SERVICE STATION DISTRIBUTION SYSTEMS INVOLVING GEOGRAPHIC FEATURES WITH CLEANER, LUBRICATION ADDED TO FLUID OR LIQUID SEALING AT VALVE INTERFACE .Cleaning or steam sterilizing	247.31 247.33 247.35 247.37	 Tangential inlet flow Downward partition encircles projecting outlet Submerged inlet pipe end Hinged seal bowl Distinct seal bowl in flow

247.43	Topside access beneath cover	278	Extensible spout
	plate closed floor opening	279	Spout articulated to riser
247.45	Enlarged upflow leg	280	.Plural riser
247.47	Topside access opening	281	.Expansible chamber operated by
247.49	Even diameter legs		valve actuator for draining
247.51	Access opening		riser
248	.Seal for relatively movable	282	.With pump or ejector
	valving parts	283	.Removable valve and valve seat
249	Horizontally moving valve	284	With extension to facilitate
250	Rotary		removal
251.1	.Liquid valves	285	.Removable valve with
252	Branched passage for sealing		supplemental check valve
	liquid	286	.Movable riser actuated valve
253	With auxiliary means for	287	Reciprocating riser
	varying liquid level	288	Piston type valve
254	With baffle	289	.Balanced valve
255	PLURAL TANKS OR COMPARTMENTS WITH	290	.Valve actuator extends laterally
	PARALLEL FLOW		from bottom of riser
256	.Sequentially filled and emptied	291	.Valve actuator outside riser
	(e.g., holding type)	292	Lever actuator
257	With relative rotation of tank	293	With casing, flush with ground
	group and filling head		or pavement surface
258	With rotary filling and	294	.With casing
	emptying head	295	Flush with ground or pavement
259	.With housings, supports or		surface
	stacking arrangements	296	Cap, cover or hood
260	.Battery or electrolytic cell	297	With heater
	replenishment	298	.With actuator lubricating means
261	Barometric supply	299	.With valve at outlet
262	.Flow dividing compartments	300	.With supplemental valve
263	.Tank type manifold (i.e., one	301	.Protection against freezing
	tank supplies or receives from	302	Stop and waste
	at least two others)	303	With disabling means
264	.Tank within tank	304	Separate relatively movable
265	.With cross connecting passage		valves with single actuator
266	.With manifold or grouped outlets	305	Unidirectional abutting
267	Tank truck type		connection between main valve
268	WITH HOLDER FOR SOLID, FLAKY OR		or actuator and waste valve
	PULVERIZED MATERIAL TO BE	306	With screw or gear in
	DISSOLVED OR ENTRAINED		actuating mechanism
269	CONVERTIBLE	307	Reciprocating relatively fixed
269.5	.Reversible check		valves
270	.Unit orientable in a single	308	Waste through lower valve
	location between plural		guide
	positions	309	REVERSING VALVES - REGENERATIVE
270.5	Reversible stop and vent or		FURNACE TYPE
	waste	310	.With cooling
271	.Units interchangeable between	311	.Rotary reversing valve
	alternate locations	312	WITH LEAKAGE OR DRIP COLLECTING
272	HYDRANT TYPE	313	.Relatively movable receptacle or
273	.Water crane type		drain pipe and outlet
274	Spout operated valve	314	.Collector for waste liquid
275	Rotating riser		derived from solid, gas or
276	Spout articulated to riser		vapor
277	Vertically movable riser		
2 / /	<u> </u>		

215 01		215 22	- 111
315.01	WITH REPAIR, TAPPING, ASSEMBLY, OR DISASSEMBLY MEANS	315.33	.Assembling or disassembling check valve
315.02	.Blow out preventer or choke valve device (e.g., oil well	315.35	.With mechanical movement between actuator and valve
	flow controlling device, etc.)	315.36	Plural motions of valve
315.03	.Solenoid or electromagnetically	315.37	Lever type
313103	operated valve	315.38	Gear type
315.04	Pressure regulating type valve	315.39	Cam type
315.05	Diaphragm type	315.4	Screw type
315.06	.Gas or water meter replacing	315.41	.Tool for applying or removing
315.07	.Assembling or disassembling	313.41	valve or valve member
	flexible tube or sleeve type	315.42	Including sealing feature
	valve	316	.With holding means functioning
315.08	.Assembling or disassembling		only during transportation
	float or float valve		assembly or disassembly
315.09	.Assembling or disassembling	317	.Tapping a pipe, keg, or
	multi way valve		apertured tank under pressure
315.11	.Assembling, disassembling, or	318	With aperture forming means
	removing cartridge type valve	319	Imperforate closure removing
	(e.g., insertable and		and holding tap
	removable as a unit, etc.)	320	With valved closure or bung
315.12	Faucet type (e.g., domestic	321	Combined rotary and
	water use, etc.)		longitudinal movement of valve
315.13	Including removable valve head	322	Longitudinal movement of valve
	and seat unit	323	Rotary movement of valve
315.14	Including mechanical movement	324	With core ejectors
045 45	actuator	325	Impact operated
315.15	Particular handle or handle	326	.Foot valve extraction from top
215 16	fastening means		of enclosure
315.16	.Assembling or disassembling	327	.With disassembly tool engaging
315.17	pivoted valve		feature
313.17	.Assembling or disassembling rotary valve	328	Wrench engaging lugs
315.18	Rotary ball valve	329	.With provision of alternate wear
315.19	Particular valve seat or	200 01	parts
313.13	interface seal	329.01	Valve heads and/or seats
315.2	Replaceable	329.02	Opposite duplicate surfaces of
315.21	With top entry valve	220 02	unitary structure
	Butterfly valve	329.03 329.04	Homogeneous material
315.23	Having valve head or seat	329.04	Valve headsDifferent portions of
	packing	329.03	continuous surfaces
315.24	With head and stem collections	329.06	Successively used adjacent
315.25	Plug valve	323.00	independent elements
315.26	Having retainer at actuator	329.1	Removable valve with normally
	end	323.1	disabled supplemental check
315.27	.Assembling or disassembling		valve
	reciprocating valve	329.2	Check valve disabled by
315.28	Having particularly packed or		normally movable main valve
	sealed mechanical movement		part
	actuator	329.3	Ball check
315.29	Gate valve	329.4	Spring bias
315.3	Bifaced	330	NON-VALVING MOTION OF THE VALVE
315.31	Having particular valve seat		OR VALVE SEAT
315.32	Including seal	331	.Rotary motion of a reciprocating
			valve

220		255 24	
332	Turbine on valve	355.24	Boom type
333	Manual rotating means	355.25	Weighted
334	WITH HEATING OR COOLING OF THE	355.26	Reel with support therefor
	SYSTEM	355.27	Ground supported
335	.With burner	355.28	Basket or holder for folded
336	Flue extending through fluid		coiled hose
337	.Hot and cold water system having	356	.Static constructional
	a connection from the hot to		installations
	the cold channel	357	Buildings
338	<pre>.Air heated or cooled (fan, fins, or channels)</pre>	358	Outside access to portions of the system
339	.With diversion of part of fluid	359	Escutcheon type support
	to heat or cool the device or	360	Wall
	its contents	361	Recessed gas outlet box
340	.Circulating fluid in heat	362	Floor installation
	exchange relationship	363	Ground supporting enclosure
341	.With electric heating element	364	Valve and meter wells
342	WITH FLUID SYSTEM SUPPORT FOR	365	With means to center well on
	WORKMAN OR NON-SYSTEM MATERIAL	303	valve
343	WITH CASING, SUPPORT, PROTECTOR	366	Detachable base plate
	OR STATIC CONSTRUCTIONAL	367	Vertical casing aligned by
	INSTALLATIONS	307	valve casing
899	.Vehicle	368	Combined with actuator
345	Locomotive	369	
346	Boiler or steam dome	370	Telescopic well casing
347	Railway car		Telescopic well casing
348	Car frame	371	Covers
349	End of car	372	Pipe line transport
350		373	Tapering or tower type
350	Roof, wall or floor	374	.Furniture and housing
	Automotive		furnishings
352	Steering post or wheel	375	.Jacketed
353	Dash	376	.Tank supports
354	Floor or frame	377	.Guards and shields
355	Fender or running board	378	Resilient abutment for
355.12	With hose reel storage means		preventing breakage
899.1	Guided by means of track or guideway	379	Nozzle abutment for scratch or damage prevention
899.2	Aerial or water-supported	380	Cover for beer cooler aperture
	(e.g., airplane or ship, etc.)		for faucet
899.3	With retractable or nonuse-	381	Sanitary covers or shields
	positionable support wheel	382	Valve quards
899.4	Vehicle supports fluid	382.5	With means for accommodating a
	compressor and compressed		detachable actuator
	fluid storage tank	383	WITH LOCK OR SEAL
355.16	.With hose storage or retrieval	384	.With seal
	means	384.2	.Common lock and valve actuator
355.17	With means for plural hoses	384.4	Combination lock
355.18	With flow regulation responsive	384.6	Biased valve
	to hose movement	384.8	Mechanical movement between
355.19	Reel type	001.0	lock and valve
355.2	With retrieval means	385	.Locks against rotary motion
355.21	Power stop or brake	386	LIQUID LEVEL RESPONSIVE OR
355.22	Responsive to position of	500	MAINTAINING SYSTEMS
	hose in casing	387	.Washing machine cycle control
355.23	Biased to retracted position	507	· maphing machine cycle control

388	Liquid excluding devices for gas inlet or outlets	430	Float co-axial with valve or port
389	.With second diverse control	431	Float is spreader or anti-
390	Manual control	_	splash means
391	.Control of both inflow and	432	Float surrounds inlet pipe
331	outflow of tank	433	Float rigid with valve
392	.Electrical characteristic	434	Float arm operated valve
372	sensing	435	With valve retarder or cushion
393	.With control fluid connection at	433	
393		126	means
205	desired liquid level	436	With flow guide or restrictor
395	.Control of outflow from tank	437	External hood or deflector or
396	Self-emptying tanks		annular outlet surrounding the
397	By float	420	inlet pipe
398	By float	438	Movable nozzle or inlet
399	Low level safety cut-off		terminal
400	.With supplemental or safety	439	Valve removable from outside
	closing means or bias		container
401	Sinking or bucket type float	440	With U-shaped inlet pipe
402	Gravitating tank		having terminal valve
403	.By weight of accumulated fluid	441	With refill pipe
404	In sinking or bucket type float	442	Assembly mounted on and having
405	Oil burner fuel overflow		reciprocating valve element
	preventing safety cut-offs		coaxial with inlet pipe
406	In communicating measuring	443	Horizontal or side entering
	vessel		pipe
407	Top and bottom connections	444	Vertical inlet riser
408	In gravitating tank	445	With toggle or second lever
409	.By float controlled valve		connected to valve
410	Valve opened by external means,	446	With interposed cam, gear or
410	closing or closing control by		threaded connection
	float	447	Rotary valve element
411	Single float controls plural	448	Pivoted valve
411	valves	449	Ball valves
412	Servo relay operation of	450	Balanced valves
412	control	451	Flexible valve
413	Fluid pressure	453	Flexible valve .Barometric
_	±		
414	Flexible diaphragm valve	454	With shut-off between supply
415	From tank	454.0	tank and receiver
416	Quick acting	454.2	REMOVABLE VALVE HEAD AND SEAT
417	Pilot float released	4544	UNIT
418	Over center mechanism	454.4	.Pump type
419	Shifting weight	454.5	.Threaded into valve casing
420	Trip mechanism	454.6	.Retained by bonnet or closure
421	Weight or spring bias	455	LINE CONDITION CHANGE RESPONSIVE
422	Lost motion mechanism		VALVES
423	Plural floats	456	.Safety cut-off requiring reset
424	With counter-balance	457	Thermal
425	Within tank	458	Responsive to both high and low
426	Level adjustment or selection		pressure or velocity
	means	459	Responsive to change in rate of
427	With float leakage disposal		flow
428	In separate communicating float	460	Excessive flow cut-off
-	chamber	461	High pressure cut-off
429	Rectilinearly traveling float	462	Reset by pressure equalization
	goziiiig iioac		valve or by-pass
			

463	Fluid released trip	492	Single acting fluid servo
464	Fluid counter-biased or	492.5	Spring biased
	unseated valve	493	.Bi-directional flow valves
465	With mechanical stop against reopening	493.1	One head and seat carried by head of another
466	With fluid pressure seating of valve	493.2	Supporting valve only spring biased
467	.Fluid opened valve requiring reset	493.3	Supporting valve spring carried by supporting valve
467.5	.Consistency responsive	493.4	Spring stop on supported
468	.Thermal responsive		valve stem
469	.Pop valves	493.5	Spring abuts guide for
470	Pop closing valves		supported valve stem
471	Pop pressure reactor in inflow	493.6	Both valves spring biased
	to valve	493.7	Axes of ports perpendicular
472	Pop pressure reactor in	493.8	Axes of ports parallel
	branched released path	493.9	Axes of ports co-axial
473	Separate relief valves or	494	.With separate connected fluid
	valves for each branch		reactor surface
474	Lost motion between pop pressure reactor and valve	495	With manual or external control for line valve
475	Adjustable choke	496	Valve closes in responses to
476	Annular lip or baffle		reverse flow
477	On movable valve part	497	Responsive to change in rate of
478	Screw threaded		fluid flow
479	.Combustion engine induction type	498	Valve closes in response to
480	Valve in auxiliary inlet to		excessive flow
	induction line	499	Turbine or swinging vane type
481	With manual modifier	E 0 0	reactor
482	With suction compensator	500	Expansible chamber subject to
483	. With separate reactor surface	E 0.1	differential pressures
484	Unbalanced pivoted valve (e.g.,	501 502	Pressures across fixed choke
484.2	unbalanced butterfly type) .Line flow effect assisted	302	With Venturi tube having a connection to throat
484.4	Reactor surface normal to flow	503	Pressures across flow line
484.6	Reactor surface separated from	303	valve
404.0	flow by apertured partition	504	Movable deflector or choke
484.8	Through separate aperture	505	With opening bias (e.g.,
485	.Pilot or servo controlled		pressure regulator)
486	Responsive to change in rate of	505.11	With relief valve
	fluid flow	505.12	Multi-stage
487	Control by pressures across	505.13	Senses inlet pressure
	flow line valve	505.14	Bias variable during operation
487.5	Electrically actuated valve	505.15	Ancillary reactor surface
488	Fluid pressure type		responds to inlet pressure
489	Choked or throttled pressure	505.16	Liquid transfer
	type	505.17	Weight
490	Pilot valve within main valve	505.18	Balanced valve
	head	505.19	Liquid level responsive gas
491	Choked passage through main		flow control
400 -	valve head	505.2	With protective separator
489.3	Loose fitting piston	505.21	Main flow through isolated
489.5	Pilot controls supply to	E0E 22	reactor chamber
	pressure chamber	505.22	Through external pipe

505.23	Modified valve casing	512.4	Integral resilient member
505.24	Adjustable external lever	J12.4	forms plural valves
505.25	Apertured reactor surface	512.5	With common biasing means
303.23	surrounds flow line	513	Mechanically interconnected
505.26	Reactor surface separated by	513.3	With leak passage
303.20	apertured partition	513.5	Permits flow at valve
505.27	In valve stem	213.3	interface
505.28	Also through reactor surface	513.7	Bypass in valve casing
505.29	Valve stem passes through the	514	With retarder or dashpot
303.29	aperture	514.3	End of valve forms dashpot
505.3	Plural reactor surfaces	514.5	chamber
505.31	Reactor is an inverted cup	514.5	End of valve moves inside
	having liquid seal		dashpot chamber
505.32	With movement dampener	514.7	Enlarged piston on end of
505.33	Valve head in inlet chamber		valve stem
505.34	Valve head in inlet chamber	515	In couplings for coaxial
505.35	Rectilinear valve stem		conduits, e.g., drill pipe
	rigid with reactor surface		check valves
505.36	Reactor surface is diaphragm	515.3	Valve seat threaded into a
505.37	With valve closing bias		coupling element
505.38	Reactor surface closes chamber	515.5	Valve seat formed on or
505.39	Valve head in inlet chamber		carried by a coupling element
505.4	Reactor surface is inverted	515.7	Valve seat clamped between
	cup (float)		coupling elements
505.41	Rectilinear valve stem rigid	516	With means for selecting area
	with reactor surface		of valve or seat
505.42	With valve closing bias	516.11	Single head, plural ports in
505.43	In reactor chamber		parallel
505.44	Valve head on yoke	516.13	Concentric ports
505.45	Yoke has valve closing bias	516.15	Annular head
505.46	Reactor operatively connected	516.17	Central post on seat
	to valve by mechanical	516.19	Stop
	movement	516.21	With guide
505.47	With mechanical movement	516.23	Guide
	between actuator and valve	516.25	Plural seating
506	Plural valves biased closed	516.27	Sequential
507	With means for mounting or	516.29	Resilient gasket
	connecting to system	517	Biased open
508	Valve seat or external sleeve	518	Oppositely swinging vanes
	moves to open valve	519	Weight biased
509	Valve seating in direction of	519.5	Ball valves
	flow	520	Edge pivoted valve
510	Flexible diaphragm or bellows	521	Pivoted valves
	reactor	522	With external means for
511	.Direct response valves (i.e.,		opposing bias
	check valve type)	523	With means for retaining
512	Plural		external means in bias
512.1	Dividing and recombining in a		opposing position
	single flow path	524	With bias adjustment indicator
512.15	Integral resilient member	843	Resilient material valve
	forms plural valves	844	Having expansible port
512.2	One valve carries head and	845	Apertured plate
	seat for second valve	846	Having exit lip
512.3	Diverse types	847	With biasing means

848	Side vent	542	Valve stem extends through
849	Multiple slit		fixed spring abutment
850	Internally extending mount	543	Yoke or cage-type support
851	Center flexing strip		for valve stem
852	With valve member flexing about securement	543.13	Spring abuts removable valve stem guide
853	Sleeve	543.15	Head slides on guide-rod
854	Central mount	343.13	concentric with spring
		543.17	Spring guides valve head
855	Flap or reed		
856	With stop	543.19	Cage-type guide for stemless
857	With spring	E 4 2 0 1	valves
858	With weight	543.21	Guide means integral and
859	Peripherally secured	- 40 OO	coplanar with valve disk
	diaphragm	543.23	Head between spring and
860	Annulus		guide
526	Vacuum relief type	544	WITH MEANS FOR SEPARATING SOLID
527	Pivoted valves		MATERIAL FROM THE FLUID
527.2	Head retained by removable	545	.Plural separating elements
	closure	546	.Sediment chamber
527.4	Valve head movably connected	547	.Movable strainer
	for accommodation to seat	549	.Hollow strainer, fluid inlet and
527.6	Valve mounted on end of pipe		outlet perpendicular to each
527.8	Weight biased		other
527.0	Reciprocating valves	550	.Planar strainer normal to flow
529	Plural biasing means		path
530	Cam means for adjusting and	551	WITH INDICATOR, REGISTER,
330	5		RECORDER, ALARM OR INSPECTION
F 2 1	fixing bias		
531	Varying effective lever arm	552	MEANS
532	Varying effective lever armWeight biased	552 552 5	MEANS .Plural
532 533	Varying effective lever armWeight biasedValve body is the weight	552 552.5	MEANS .PluralUnobvious - "combination lock"
532 533 533.11	Varying effective lever armWeight biasedValve body is the weightBall valves	552.5	MEANS .PluralUnobvious - "combination lock" type
532 533 533.11 533.13	Varying effective lever armWeight biasedValve body is the weight	552.5 552.7	MEANS .PluralUnobvious - "combination lock" type .Time
532 533 533.11 533.13 533.15	Varying effective lever armWeight biasedValve body is the weightBall valves	552.5	MEANS .PluralUnobvious - "combination lock" type .Time .Position or extent of motion
532 533 533.11 533.13	Varying effective lever armWeight biasedValve body is the weightBall valvesRemovable cage	552.5 552.7 553	MEANS .PluralUnobvious - "combination lock" type .Time .Position or extent of motion indicator
532 533 533.11 533.13 533.15	Varying effective lever armWeight biasedValve body is the weightBall valvesRemovable cageSeparable seat	552.5 552.7 553	MEANS .PluralUnobvious - "combination lock" type .Time .Position or extent of motion indicatorElectrical
532 533 533.11 533.13 533.15 533.17	Varying effective lever armWeight biasedValve body is the weightBall valvesRemovable cageSeparable seatGuided head	552.5 552.7 553 554 555	MEANS .PluralUnobvious - "combination lock" type .Time .Position or extent of motion indicatorElectricalSelection from plural branches
532 533 533.11 533.13 533.15 533.17 533.19	Varying effective lever armWeight biasedValve body is the weightBall valvesRemovable cageSeparable seatGuided headCage	552.5 552.7 553	MEANS .PluralUnobvious - "combination lock" type .Time .Position or extent of motion indicatorElectricalSelection from plural branchesIndicator element rigidly
532 533 533.11 533.13 533.15 533.17 533.19 533.21	Varying effective lever armWeight biasedValve body is the weightBall valvesRemovable cageSeparable seatGuided headCageGuide stem	552.5 552.7 553 554 555	MEANS .PluralUnobvious - "combination lock" type .Time .Position or extent of motion indicatorElectricalSelection from plural branches .Indicator element rigidly carried by the movable element
532 533 533.11 533.13 533.15 533.17 533.19 533.21 533.23 533.25	Varying effective lever armWeight biasedValve body is the weightBall valvesRemovable cageSeparable seatGuided headCageGuide stemWith closing stopOppositely disposed	552.5 552.7 553 554 555 556	MEANS .PluralUnobvious - "combination lock" type .Time .Position or extent of motion indicatorElectricalSelection from plural branchesIndicator element rigidly carried by the movable element whose position is indicated
532 533 533.11 533.13 533.15 533.17 533.19 533.21 533.23 533.25 533.27	Varying effective lever armWeight biasedValve body is the weightBall valvesRemovable cageSeparable seatGuided headCageGuide stemWith closing stopOppositely disposedHead slidable on guide rod	552.5 552.7 553 554 555	MEANS .PluralUnobvious - "combination lock" type .Time .Position or extent of motion indicatorElectricalSelection from plural branches .Indicator element rigidly carried by the movable element
532 533 533.11 533.13 533.15 533.17 533.19 533.21 533.23 533.25	Varying effective lever armWeight biasedValve body is the weightBall valvesRemovable cageSeparable seatGuided headCageGuide stemWith closing stopOppositely disposedHead slidable on guide rodGuide and seat integral	552.5 552.7 553 554 555 556	MEANS .PluralUnobvious - "combination lock" type .Time .Position or extent of motion indicatorElectricalSelection from plural branchesIndicator element rigidly carried by the movable element whose position is indicated
532 533 533.11 533.13 533.15 533.17 533.19 533.21 533.23 533.25 533.27 533.29	Varying effective lever armWeight biasedValve body is the weightBall valvesRemovable cageSeparable seatGuided headCageGuide stemWith closing stopOppositely disposedHead slidable on guide rodGuide and seat integral unit	552.5 552.7 553 554 555 556	MEANS .PluralUnobvious - "combination lock" type .Time .Position or extent of motion indicatorElectricalSelection from plural branchesIndicator element rigidly carried by the movable element whose position is indicatedMovable indicator element is a
532 533 533.11 533.13 533.15 533.17 533.19 533.21 533.23 533.25 533.27	Varying effective lever armWeight biasedValve body is the weightBall valvesRemovable cageSeparable seatGuided headCageGuide stemWith closing stopOppositely disposedHead slidable on guide rodGuide and seat integral unitGuide and closure integral	552.5 552.7 553 554 555 556	MEANS .PluralUnobvious - "combination lock" type .Time .Position or extent of motion indicatorElectricalSelection from plural branchesIndicator element rigidly carried by the movable element whose position is indicatedMovable indicator element is a pointer
532 533 533.11 533.13 533.15 533.17 533.19 533.21 533.23 533.25 533.27 533.29	Varying effective lever armWeight biasedValve body is the weightBall valvesRemovable cageSeparable seatGuided headCageGuide stemWith closing stopOppositely disposedHead slidable on guide rodGuide and seat integral unitGuide and closure integral unit	552.5 552.7 553 554 555 556.3 556.6	MEANS .PluralUnobvious - "combination lock" type .Time .Position or extent of motion indicatorElectricalSelection from plural branchesIndicator element rigidly carried by the movable element whose position is indicatedMovable indicator element is a pointerPointer integral with handle
532 533 533.11 533.13 533.15 533.17 533.19 533.21 533.23 533.25 533.27 533.29 533.31	Varying effective lever armWeight biasedValve body is the weightBall valvesRemovable cageSeparable seatGuided headCageGuide stemWith closing stopOppositely disposedHead slidable on guide rodGuide and seat integral unitGuide and closure integral unitGuide toaxial with valve	552.5 552.7 553 554 555 556.3 556.6	MEANS .PluralUnobvious - "combination lock" type .Time .Position or extent of motion indicatorElectricalSelection from plural branchesIndicator element rigidly carried by the movable element whose position is indicatedMovable indicator element is a pointerPointer integral with handle .Fluid pressure responsive
532 533 533.11 533.13 533.15 533.17 533.19 533.21 533.23 533.25 533.27 533.29 533.31	Varying effective lever armWeight biasedValve body is the weightBall valvesRemovable cageSeparable seatGuided headCageGuide stemWith closing stopOppositely disposedHead slidable on guide rodGuide and seat integral unitGuide and closure integral unitGuide with valveSpring biased	552.5 552.7 553 554 555 556 556.3 556.6 557	MEANS .PluralUnobvious - "combination lock" type .Time .Position or extent of motion indicatorElectricalSelection from plural branchesIndicator element rigidly carried by the movable element whose position is indicatedMovable indicator element is a pointerPointer integral with handle .Fluid pressure responsive indicator, recorder or alarm
532 533 533.11 533.13 533.15 533.17 533.19 533.21 533.23 533.25 533.27 533.29 533.31	Varying effective lever armWeight biasedValve body is the weightBall valvesRemovable cageSeparable seatGuided headCageGuide stemWith closing stopOppositely disposedHead slidable on guide rodGuide and seat integral unitGuide and closure integral unitSuide and closure integral unitWeight coaxial with valveSpring biasedWith means to protect spring	552.5 552.7 553 554 555 556 556.3 556.6 557	MEANS .PluralUnobvious - "combination lock" type .Time .Position or extent of motion indicatorElectricalSelection from plural branchesIndicator element rigidly carried by the movable element whose position is indicatedMovable indicator element is a pointerPointer integral with handle .Fluid pressure responsive indicator, recorder or alarm .Liquid level responsive
532 533 533.11 533.13 533.15 533.17 533.21 533.21 533.25 533.25 533.27 533.29 533.31	Varying effective lever armWeight biasedValve body is the weightBall valvesRemovable cageSeparable seatGuided headCageGuide stemWith closing stopOppositely disposedHead slidable on guide rodGuide and seat integral unitGuide and closure integral unitSuide and closure integral unitWeight coaxial with valveSpring biasedWith means to protect spring from fluid	552.5 552.7 553 554 555 556 556.3 556.6 557	MEANS .PluralUnobvious - "combination lock" type .Time .Position or extent of motion indicatorElectricalSelection from plural branchesIndicator element rigidly carried by the movable element whose position is indicatedMovable indicator element is a pointerPointer integral with handle .Fluid pressure responsive indicator, recorder or alarm .Liquid level responsive indicator, recorder or alarm
532 533 533.11 533.13 533.15 533.17 533.21 533.23 533.25 533.27 533.29 533.31	Varying effective lever armWeight biasedValve body is the weightBall valvesRemovable cageSeparable seatGuided headCageWith closing stopOppositely disposedHead slidable on guide rodGuide and seat integral unitGuide and closure integral unitSpring biasedWith means to protect spring from fluidSpring under tension	552.5 552.7 553 554 555 556 556.3 556.6 557 558 559	MEANS .PluralUnobvious - "combination lock" type .Time .Position or extent of motion indicatorElectricalSelection from plural branchesIndicator element rigidly carried by the movable element whose position is indicatedMovable indicator element is a pointerPointer integral with handle .Fluid pressure responsive indicator, recorder or alarm .Liquid level responsive indicator, recorder or alarm .Inspection means
532 533 533.11 533.13 533.15 533.17 533.21 533.23 533.25 533.27 533.29 533.31 534 535 536 537 538	Varying effective lever armWeight biasedValve body is the weightBall valvesRemovable cageSeparable seatGuided headCageWith closing stopOppositely disposedHead slidable on guide rodGuide and seat integral unitGuide and closure integral unitSuide and closure integral unitWeight coaxial with valveSpring biasedWith means to protect spring from fluidSpring under tensionPiston-type valves	552.5 552.7 553 554 555 556.3 556.6 557 558 559 560	MEANS .PluralUnobvious - "combination lock" type .Time .Position or extent of motion indicatorElectricalSelection from plural branchesIndicator element rigidly carried by the movable element whose position is indicatedMovable indicator element is a pointerPointer integral with handle .Fluid pressure responsive indicator, recorder or alarm .Liquid level responsive indicator, recorder or alarm .Inspection means COMBINED
532 533 533.11 533.13 533.15 533.17 533.21 533.23 533.25 533.27 533.29 533.31 534 535 536 537 538 539	Varying effective lever armWeight biasedValve body is the weightBall valvesRemovable cageSeparable seatGuided headCageWith closing stopOppositely disposedHead slidable on guide rodGuide and seat integral unitGuide and closure integral unitSuide and closure integral unitSuide and resionWeight coaxial with valveSpring biasedWith means to protect spring from fluidSpring under tensionPiston-type valvesBall valves	552.5 552.7 553 554 555 556 556.3 556.6 557 558 559 560 561 R 561 A	MEANS .PluralUnobvious - "combination lock" type .Time .Position or extent of motion indicatorElectricalSelection from plural branchesIndicator element rigidly carried by the movable element whose position is indicatedMovable indicator element is a pointerPointer integral with handle .Fluid pressure responsive indicator, recorder or alarm .Liquid level responsive indicator, recorder or alarm .Inspection means COMBINED SYSTEMS .Non-valved flow dividers
532 533 533.11 533.15 533.17 533.19 533.21 533.23 533.25 533.27 533.29 533.31 534 535 536 537 538 539 539.5	Varying effective lever armWeight biasedValve body is the weightBall valvesRemovable cageSeparable seatGuided headCageWith closing stopOppositely disposedHead slidable on guide rodGuide and seat integral unitGuide and closure integral unitWeight coaxial with valveSpring biasedWith means to protect spring from fluidSpring under tensionPiston-type valvesBall valvesWith follower	552.5 552.7 553 554 555 556 556.3 556.6 557 558 559 560 561 R 561 A 562	MEANS .PluralUnobvious - "combination lock" type .Time .Position or extent of motion indicatorElectricalSelection from plural branchesIndicator element rigidly carried by the movable element whose position is indicatedMovable indicator element is a pointerPointer integral with handle .Fluid pressure responsive indicator, recorder or alarm .Liquid level responsive indicator, recorder or alarm .Inspection means COMBINED SYSTEMS .Non-valved flow dividers .Faucet connected, sink drained
532 533 533.11 533.13 533.15 533.17 533.21 533.23 533.25 533.27 533.29 533.31 534 535 536 537 538 539 539.5 540	Varying effective lever armWeight biasedValve body is the weightBall valvesRemovable cageSeparable seatGuided headCageWith closing stopOppositely disposedHead slidable on guide rodGuide and seat integral unitGuide and closure integral unitWeight coaxial with valveSpring biasedWith means to protect spring from fluidSpring under tensionPiston-type valvesBall valvesWith followerSpring coaxial with valve	552.5 552.7 553 554 555 556 556.6 557 558 559 560 561 R 561 A 562 563	MEANS .PluralUnobvious - "combination lock" type .Time .Position or extent of motion indicatorElectricalSelection from plural branchesIndicator element rigidly carried by the movable element whose position is indicatedMovable indicator element is a pointerPointer integral with handle .Fluid pressure responsive indicator, recorder or alarm .Liquid level responsive indicator, recorder or alarm .Inspection means COMBINED SYSTEMS .Non-valved flow dividers .Faucet connected, sink drained .Closed circulating system
532 533 533.11 533.15 533.17 533.19 533.21 533.23 533.25 533.27 533.29 533.31 534 535 536 537 538 539 539.5	Varying effective lever armWeight biasedValve body is the weightBall valvesRemovable cageSeparable seatGuided headCageWith closing stopOppositely disposedHead slidable on guide rodGuide and seat integral unitGuide and closure integral unitWeight coaxial with valveSpring biasedWith means to protect spring from fluidSpring under tensionPiston-type valvesBall valvesWith follower	552.5 552.7 553 554 555 556 556.3 556.6 557 558 559 560 561 R 561 A 562	MEANS .PluralUnobvious - "combination lock" type .Time .Position or extent of motion indicatorElectricalSelection from plural branchesIndicator element rigidly carried by the movable element whose position is indicatedMovable indicator element is a pointerPointer integral with handle .Fluid pressure responsive indicator, recorder or alarm .Liquid level responsive indicator, recorder or alarm .Inspection means COMBINED SYSTEMS .Non-valved flow dividers .Faucet connected, sink drained

564.5	.Main line as motive fluid for	583	.System with plural openings, one
304.3	follower-type feeder	303	a gas vent or access opening
565.01	.With pump	584	Access and outlet
565.11	Pumped fluid control	585	Tank access opening and bottom
565.12	Manual	303	outlet
565.13	Fluid pressure responsive	586	Access opening interlock or
565.14	And pilot valve		telltale on outlet valve
565.15	Direct response valve		actuator
565.16	Electric	587	Tank with gas vent and inlet or
565.17	Combined with fluid receiver		outlet
565.34	Reserve or surge receiver	588	Vent and inlet or outlet in
565.18	Compressed air supply unit		unitary mounting
565.19	Hydraulic power unit	589	With vented outlet
565.37	Fluid sump	590	.Tank with internally extending
565.22	And jet-aspiration type pump		flow guide, pipe or conduit
565.23	Vacuum pump	590.5	Nondraining overflow type
565.24	Resiliently mounted pump	591	Inverted "U" passage
565.25	Hand pump	592	Inlet internally extending
565.26	Multiple inlet with multiple	593	.Head-establishing standpipe or
	outlet		expansion chamber (e.g., surge
565.27	Downstream cyclic distributor		tanks)
565.28	Distributor part unitary with	624.11	.Programmer or timer
	movable pump part	624.12	With independent valve
565.29	Plural		controller
565.3	Serial	624.13	Repeating cycle
565.31	With single motive input	624.14	Self-cycling
565.32	One pump driven by motive	624.15	Variable
	fluid from the other	624.16	Attachable and removable
565.33	Parallel	(24 17	element
565.35	With pump bypass	624.17	Adjustable cam
565.36	Drain valve actuator mounted on	624.18	Plural, sequential, valve actuations
E 17.1	pump	624.19	Plural trips or trip
571	.Plural tanks or compartments connected for serial flow	024.13	actuations
572	Separable with valved-	624.2	Variable cycle
314	connecting passage	624.21	Clock alarm mechanism
573	Fluid progresses by zigzag flow		controlled
574	Plural compartments formed by	624.22	Biased latch, cam operated
3,1	baffles	624.27	.Line condition change responsive
575	Plural top-to-bottom connected		release of valve
	tanks	625	.Multi-way valve unit
576	With communicating opening in	625.11	Sequential distributor or
	common walls of tanks or		collector type
	compartments	625.12	Sequentially progressive
577	.Tank with movable or adjustable		opening or closing of plural
	outlet or overflow pipe		ports
577.5	Horizontally traversing outlet	625.13	With subsequent closing of
578	Float-supported outlet	605 14	first port
579	Swinging outlet pipe or spout	625.14	Flow combining with flow
580	.With running joint between	60E 1E	dividing
	movable parts of system	625.15	Rotary
581	.Movable tank	625.16	Plug
582	.With antisplash means not in	625.17	Selective reciprocation or rotation
	flow passage		IOCACION

625.61Variable orifice-type modulator 625.62Opposed orifices; interposed modulator 625.63Common to plural valve motor chambers 625.64Electric 625.65Motor-operated 625.66Fluid motor 625.21Rotary valve 625.22Plug type 625.23For plural lines 625.24Axial and radial flow 625.25Combined disk or plug and gate or piston 625.67Plural disk or plug 625.68With internal flow passage 625.69With annular passage (e.g., spool) 625.29Valve with bypass connections 625.20Valve with bypass connections 625.21Valve with bypass connections 625.22Valve with bypass connections 625.23With metering feature 625.24Valve with bypass connections 625.25Valve with bypass connections 625.26Valve with bypass connections 625.27Plug 625.28Valve with bypass connections 625.29Valve with bypass connections 625.31Valve with bypass connections 625.32Valve with bypass connections 625.33With internal flow passage 625.34Dunequal heads 625.35Vith internal passage 625.36Unequal heads 625.37Piston 625.38With internal passage 625.39Sequential opening or closing of plural valve 625.40Decomotive throttle 630.11Locomotive throttle 630.12First valve moves second valve 630.13Actuator moves both valve 630.15Actuator moves both valve 630.16Simultaneously moved port 630.17Simultaneously moved port 630.18Serew-actuated differential valves 630.21Com determines sequence 630.22First valve actuates second valve 630.23With metering feature 630.24First valve actuator on plural valve actuator 625.36Unequal heads 636.1Gotary once tric valves 636.2Gotario about either of two pivotal axes 636.3Gotario about either of two pivotal axes 636.4Gotario about either of two pivotal axes 637.1Gotario about either of two pivotal axes 638.4Gotario about either of two pivotal axes 639.4Gotario about either of two pivotal axes 639.4Gotario about either of two pivotal axes 63				
625.19 Rotary plug 627 .Sequential distributor or collector type 625.2 Pilot-actuated 627.5 Gequentially closing and oper alternately seating flow controllers 625.61 Variable orifice-type modulator Common to plural valve motor chambers Sequentially progressive oper or closing of plural valve motor chambers Sequentially progressive oper or closing of plural valve will internal plus sages Sequentially progressive oper or closing of plural valve work controllers Sequentially progressive oper or closing of plural valve work controllers Sequentially progressive oper or closing of plural valve work saginst of valve (e.g., concentric valves) Sequentially progressive oper or closing of plural valve walve (e.g., concentric valves) Decomorive equalizing or auxiliary shunt flow valve (e.g., concentric valves) Decomorive equalizing or auxiliary shunt flow valves Decomorive throttle .	625.18	Plural noncommunicating flow	625.5	Plural disk or plug
625.2 .Supply and exhaust collector type 625.6 Variable orifice-type modulator alternately seating flow controllers 625.61 Opposed orifices; interposed modulator 628 625.63 Common to plural valve motor chambers 629 625.64 Electric 630 625.65 Motor-operated valve (e.g., concentric valves) 625.21 Rotary valve 630.11 625.22 Por plural lines 630.12 625.23 For plural lines 630.13 625.24 Axial and radial flow 630.14 625.25 Combined disk or plug and gate or piston 630.15 625.26 With internal flow passage 630.16 625.27 Plural disk or plug 630.16 625.28 With internal flow passage 630.17 625.29 With metering feature 630.21 625.31 Rotary 630.21 625.32 Plug 630.21 625.33 With metering feature 630.21 625.31		-	626	.Plural petcocks
625.6 Variable orifice-type modulator alternately seating flow controllers 625.62 Opposed orifices; interposed modulator 628 Sequentially progressive open or closing of plural valve motor chambers 629 Pressure equalizing or auxiliary shunt flow controllers 625.63 Common to plural valve motor chambers 630 Decomptive throttle 625.65 Motor operated 20 Decomptive throttle 625.66 Fluid motor 630.11 Locomotive throttle 625.21 Rotary valve 630.12 Gate 625.22 Pluy type 630.12 Gate 625.23 For plural lines 630.13 With balancing chamber 625.24 Axial and radial flow 630.14 First valve moves second valve 625.25 Combined disk or plug 630.15 First valve moves both valve decembers 625.26 With internal flow passage 630.16 First valve moves both valve decembers 625.27 Plus disk or plug 630.16 First valve moves both valve decembers 625.26 With internal flow passage	625.19	Rotary plug	627	.Sequential distributor or
625.61Variable orifice-type modulator 625.62Opposed orifices; interposed modulator 625.63Common to plural valve motor chambers 625.64Electric 625.65Motor-operated 625.66Fluid motor 625.21Rotary valve 625.22Plug type 625.23For plural lines 625.24Axial and radial flow 625.25Reciprocating valve 625.26Combined disk or plug and gate or piston 625.67Plston valve 625.68With internal flow passage 625.29Valve with bypass connections 625.20Valve with bypass connections 625.23With metering feature 625.24Valve in bypass connections 625.25Valve in bypass connections 625.26Valve in bypass connections 625.27Plural disk or plug 625.28With internal flow passage 625.29Valve with bypass connections 625.21Valve with bypass connections 625.22Valve with bypass connections 625.23Valve with bypass connections 625.24Spool 625.25Plug 625.26Unequal heads 625.27Plural disk or plug 625.28Valve with single outlet 625.29Valve with spoass connections 625.29Valve with bypass connections 625.31Rotary 625.32Plug 625.33Reciprocating 625.34Spool 625.35With internal passage 625.36Unequal heads 625.37Piston 625.38With internal passage 625.39Sequential opening or closing of serial ports in single flow line 625.41Rotary valve 625.42Rotary valve 625.43Sequential opening or closing of serial ports in single flow line 625.44Rotary valve 625.45Selective opening of plural valve actuators correlated across separable flow path joint 625.45Gate 625.46Rotary valve unit 625.47Plug 637.5Concentric, central valve	625.2	Supply and exhaust		collector type
modulator	625.6	Pilot-actuated	627.5	.Sequentially closing and opening
625.62Opposed orifices; interposed modulator chambers 625.63Common to plural valve motor chambers 625.64Electric 630One valve seats against of valve (e.g., concentric valves) 625.65Motor-operated valves) 625.66Fluid motor 625.21Rotary valve 630.12Gate 625.22Plug type 630.12Gate 625.23For plural lines 630.14First valve moves second valve (e.g., concentric valves) 625.25Rotary valve 630.15Comotive throttle 625.26Axial and radial flow 630.12Gate 625.27Plural disk or plug and gate or piston gate or piston valve 625.68With internal flow passage 625.69With internal flow passage 625.30With annular passage (e.g., spool) 625.28Dividing into parallel flow paths with recombining 625.29Valve with bypass connections 625.31Rotary 625.32Plug 630.22First valve actuates second valves 625.33Reciprocating 630.21Rotary concentric valves 630.22Forew-actuated differential valves 630.23Forew-actuated differential valves 630.24Forew-actuated differential valves 630.25Cam determines sequence 630.25With metering feature 630.21Rotary concentric valves 630.21Rotary	625.61	Variable orifice-type		alternately seating flow
modulator 625.63Common to plural valve motor chambers 625.64Electric 625.65Motor-operated 625.66Fluid motor 625.21Rotary valve 625.22Plug type 625.23For plural lines 625.24Axial and radial flow 625.25Combined disk or plug and gate or piston 625.26 With internal flow passage 625.27Piston valve 625.28With internal flow passage 625.29With metering feature 625.31Rotary 625.32Plug 625.33Whith metering feature 625.34Spool 625.35With internal passage 625.36With internal passage 625.37Plug 625.38With internal passage 625.39With internal passage 625.31With metering feature 625.32Plug 625.33With metering feature 625.34Spool 625.35With internal passage 625.36Unequal heads 625.37Piston 625.38With internal passage 625.39Sequential opening or closing of serial ports in single flow line 625.40Sequential opening or closing of serial ports in single flow line 625.41Rotary valve 625.42Selective opening of plural ports 625.43Selective opening of plural ports 625.44Four port reversing valves 625.45Gate 625.46Camd reciprocating 626.40Four port reversing valves 627.40Four port reversing valves 628.41Four port reversing valves 629.42Four port reversing valves 629.44Four port reversing valves 629.45Cate 630.12Four port reversing valves 630.21Four port reversing valves 630.22Four port reversing valves 630.21Four port reversing valves 630.22Four port reversing valves 630.23Four port reversing valves 630.24Four port reversing valves 630.25Four port reversing valves 630.26Four port reversing valves 630.27Four port reversing valves 630.28Four port reversing valves 630.29Four port reversing valves 630.21Four port reversing valves 630.21Four port reversing valves 630.22Four port reversing valves 630.23Four port reversing valves 630.24Four port re		modulator		controllers
modulator 625.63Common to plural valve motor chambers 625.64Electric 625.65Motor-operated 625.65Motor-operated 625.26Fluid motor 625.21Rotary valve 625.22Plug type 625.23For plural lines 625.24Axial and radial flow 625.25Combined disk or plug and gate or piston 625.26 Plut disk or plug 625.27Piston valve 625.28With internal flow passage 625.29With metering feature 625.21Rotary 625.23With metering feature 625.31Rotary 625.32Plug 625.33With internal passage 625.34Spool 625.35With internal passage 625.36With internal passage 625.37Piston 625.38With metering feature 625.39With internal passage 625.30With internal passage 625.31Rotary 625.32Plug 625.33With metering feature 625.34Spool 625.35With internal passage 625.36Unequal heads 625.37Piston 625.38With internal flow passage 625.39Sequential opening or closing of serial ports in single flow line 625.40Equivalent in ports 625.41Rotary valve 625.42Selective opening of plural ports 625.43Four port reversing valves 625.44Pivoted valve unit 625.45Gate 627.4Plug 637.4And reciprocating 637.4And reciprocating 637.4And reciprocating 637.4And reciprocating 637.5Concentric, central valve	625.62	Opposed orifices; interposed	628	.Sequentially progressive opening
625.63Common to plural valve motor chambersElectricElectric				
chambers 625.64Electric 625.65Motor-operated 625.66Fluid motor 625.21Rotary valve 625.22Plug type 625.23For plural lines 625.24Axial and radial flow 625.25Reciprocating valve 625.26Combined disk or plug and 625.27Plural disk or plug and 625.28Plust or plural flow passage 625.29With annular passage (e.g., spool) 625.29Valve with bypass connections 625.31Rotary 625.32Plug 625.33With metering feature 625.34Spool 625.35With internal passage 625.36Unequal heads 625.37Piston 625.38With internal flow passage 625.39With internal passage 625.39With internal passage 625.39With internal passage 625.31Rotary 625.32Plug 635With internal passage 625.35With internal passage 625.36Unequal heads 625.37Piston 625.38With internal flow passage 625.39Sequential opening or closing of serial ports in single flow line 625.41Rotary valve 625.42Selective opening of plural ports 625.43Four port reversing valves 625.44Pivoted valve unit 625.45Gate 637Plug 637Concentric valves concentric valves actuator 630.12Actuator moves both valve walve 630.15Actuator moves both valve 630.16With subsequent closing of first opened port 630.17Simultaneously moved port controllers 630.18Screw-actuated differential valves 630.19Sequence 630.19Sequence 630.21Rotary concentric valves 630.22Cam determines sequence 630.22Cam determines sequence 630.23Cam determines sequence 630.24Rotary concentric valves 630.25Cam determines sequence 630.26Cam determines sequence 630.27Cost determines for plural valve actuator 630.28Cam determines sequence 630.29Cam determines sequence 630.20Cam determines sequence 630.21Struction about sequence 630.22Cam determines sequence 630.23Cam determines sequence 630.24Struction about sequence 630.25Cam determines sequence 630.26	625.63	Common to plural valve motor	629	
625.64Electric 625.65Motor-operated valve (e.g., concentric valves) 625.65Motor-operated valve (e.g., concentric valves) 625.21Rotary valve 630.11Locomotive throttle 625.22Plug type 630.12Gate 625.23For plural lines 630.13With balancing chamber 625.24Axial and radial flow 630.14First valve moves second valve 625.25Reciprocating valve 630.15Actuator moves both valve gate or piston 630.16With subsequent closing of first opened port controllers 625.68With internal flow passage 625.69With internal flow passage 625.69With annular passage (e.g., spool)Simultaneously moved port valves 625.31Rotary simular passage (e.g., spool)Simultaneously moved port controllers 630.21Cam determines sequence 625.33With metering feature 630.22First valve actuates second valve 625.31Rotary simular passage 635.32With internal passage 625.33With internal passage 625.34Spool 636Unequal heads 636.1Oppositely movable cam surf 625.37Piston 636.2Sequential opening or closing of serial ports in single flow line 625.4Sequential opening or closing of serial ports in single flow line 625.4Sequential opening or ports 637.0Sequential opening or ports 637.0Sequential opening or ports 637.0Sequential opening of plural ports 637.0		_		
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625.66Fluid motor 625.21Rotary valve 625.22Plug type 630.12Cate 625.23For plural lines 625.24Axial and radial flow 625.25Reciprocating valve 625.26Combined disk or plug and gate or piston 625.27Plural disk or plug 625.68With internal flow passage 625.69With annular passage (e.g., spool) 625.28Dividing into parallel flow paths with recombining 625.29Valve with bypass connections 625.31Rotary 625.32Plug 625.33Reciprocating 625.34Spool 625.35With internal passage 625.36Unequal heads 625.37Piston 625.38With internal flow passage 625.39Sequential opening or closing of serial ports in single flow line 625.41Rotary valve 625.42Selective opening of plural ports 625.43Four port reversing valves 625.44First valve moves second valve 630.15Actuator moves both valve 630.16Actuator moves both valve 630.17Simultaneously moved port controllers 630.18Screw-actuated differential valves 630.19Lost motion 630.21Rotary concentric valves 630.22First valve actuates second valve 630.22First valve actuates second valve 630.22First valve actuates second valve 630.23Rotary concentric valves 630.24Rotary concentric valves 630.25With preselecting means for plural valve actuator 630.26With preselecting means for plural valve actuator 636.4Rotation about either of two pivotal axes 636.3Rotation about same axis 637.05Correlated across separable flow path joint 630.26Coaxial stems 637.2Coaxial stems 637.3Rotary 630.27Actuator 630.28Four port reversing valves 630.29Cantal stems 630.20Cantal stems 630.21Rotary 630.20Rotary 630.20Rotary 630.21Rotary 630.22First valve actuator 630.22First valve actuator 630.23Rotation about same axis 630.24Rotary valve 630.25Rotary 630.26Rotary valve 630.27Rotary 630.29Actuator 630.20Cantal stems 630.20Cantal stems 630.20Cantal stems 630.21Actuator 630.21				
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625.47Plug 637.5Concentric, central valve				-
023.47Flug		<u>-</u>		
			037.3	
023.46Reciprocating valve unit			501	
023.49Combined disk of plug and gate	625.49		J J 4	.Plural noncommunicating flow
or piston paths		or piston	EOE	-
595With common valve operator			JJJ	with common vaive operator

596	.Supply and exhaust	601.03	Single resilient member
596.12	With bypass		actuates or forms plural
596.13	Controlled by supply or	CO1 O1	passages
EOC 14	exhaust valve	601.04 601.05	Valves deform to close passage
596.14	Pilot-actuated	601.05	Rotary valve
596.15	Common to plural valve motor chambers	001.00	Including rigid plate with flexible or resilient seal
596.16	Electric	601.07	Axes of rotation of valves
596.17	Motor	001.07	intersect at point
596.18	Fluid motor	601.08	Axes of rotation parallel
596.1	Biased exhaust valve	601.09	Adjacent plate valves always
596.2	Biased closed		parallel
597	.Multiple inlet with multiple	601.11	Adjacent plate valves
	outlet		counter rotate
598	.Hydraulic brake line (e.g., hill	601.12	Mechanical movement between
	holders)		actuator and non-rotary valve
599.01	.Dividing into parallel flow	601.13	Fluid actuated or retarded
	paths with recombining	601.14	Electrical actuator
599.02	With fluid coupling (e.g.,	601.15	Mechanical movement between
	railway car hose coupling,		actuator and valve
	truck-trailer oil system	601.16	Rotary valve
	coupling, etc.)	601.17	Butterfly valve
599.03	System having plural inlets	601.18	Having guide or restrictor
599.04	Having digital flow controller	601.19	Manually variable
599.05	Having digital flow controller	601.2	Having direct response valve
599.06	Having plural branches under	601 01	(e.g., check valve, etc.)
	common control for separate valve actuators	601.21 602	With reverse flow direction
599.07	Electromagnetic or electric	002	.Multiple inlet with single outlet
333.07	control (e.g., digital	603	Faucet attachment
	control, bistable electro	888	Combining by aspiration
	control, etc.)	889	Combining of three or more
599.08	With multi way valve having	005	diverse fluids
	serial valve in at least one	890	Plural motivating fluid jets
	branch	891	Flow control by varying
599.09	Fluid pressure regulator in at		position of a fluid inlet
	least one branch		relative to entrainment
599.11	Flow passage with bypass		chamber
599.12	Including mixing feature	892	With selectively operated flow
599.13	Including flowmeter		control means in inlet
599.14	Including cleaning, treating,	893	Flow control means is located
E00 1E	or heat transfer feature	004	in aspirated fluid inlet
599.15 599.16	Water treatment feature	894	Single actuator operates
399.10	Second valve assembly carried by first valve head		flow control means located in
599.17	With rotary plug having		both motivating fluid and aspirated fluid inlets
333.17	variable restrictor	895	With condition responsive
599.18	Carried valve is direct	0,5,5	valve
333.10	response valve (e.g., check	896	With means to promote mixing or
	valve, etc.)		combining of plural fluids
600	With foam controlling means	897	With selectively operated flow
	(e.g., beer, soda faucets)		control means
601.01	With common operator	898	Single actuator operates
601.02	Balanced valve		plural flow control means
		605	With flow control

606	Valve in each inlet	614.12	Delivery cock with terminal
607	With common valve operator		valve
861	.With flow control means for	614.13	Alternately seating
	branched passages	614.14	Biased valve
862	With common valve operator	614.15	Opposed screw
863	For valve having a flexible	614.16	One valve head provides seat
	diaphragm valving member		for other head
864	For valve having a ball head	614.17	Also carries head of other
865	With gearing	01111	valve
866	Threaded actuator	614.18	One valve head carries other
867	Pivoted or rotary motion	011.10	valve head
007	converted to reciprocating	614.19	Biased valve with external
	valve head motion	014.10	operator
868	Spring biased	614.2	Direct response normally closed
869	Having fluid actuator	014.2	valve limits direction of flow
870	With electrical actuation	614.21	Coaxial oppositely directed
871		014.21	seats
_	Spring biased	615	
872	With valve or movable deflector	013	.Articulated or swinging flow
0.50	at junction	C1 C	conduit
873	Movable deflector spout in	616	Actuates valve
0.7.4	lateral port	616.3	Plural motions of valve
874	Valve or deflector is tubular	616.5	Reciprocating valve
	passageway	616.7	Rotary valve
875	Pivoted valve or deflector	797	FRANGIBLE
876	Rotary valve or deflector	798	WITH COUPLING
877	Biased valve	799	.Flexible
878	Spring bias	800	WITH CLOSURE
879	For valve having a ball head	801	FAUCETS AND SPOUTS
880	With threaded actuator	000	
	wren enreaded decadeor	802	MISCELLANEOUS
881	Spring coaxial with valve	802	MISCELLANEOUS
882	Spring coaxial with valveBiased open	802	MISCELLANEOUS
	Spring coaxial with valveBiased openSingle inlet with multiple	802	MISCELLANEOUS
882 883	Spring coaxial with valveBiased open		MISCELLANEOUS REFERENCE ART COLLECTIONS
882 883 884	Spring coaxial with valveBiased openSingle inlet with multiple		
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882 883 884	Spring coaxial with valveBiased openSingle inlet with multiple distinctly valved outletsSectional block structure	CROSS-F	REFERENCE ART COLLECTIONS
882 883 884 885	Spring coaxial with valveBiased openSingle inlet with multiple distinctly valved outletsSectional block structureWith fluid actuator	CROSS-F	REFERENCE ART COLLECTIONS BUMPLESS MANUAL TO AUTOMATIC
882 883 884 885 886	Spring coaxial with valveBiased openSingle inlet with multiple distinctly valved outletsSectional block structureWith fluid actuatorWith threaded actuator	CROSS-F 900 901	REFERENCE ART COLLECTIONS BUMPLESS MANUAL TO AUTOMATIC RELAYS BIASED BALL VALVES WITH OPERATORS
882 883 884 885 886 887	Spring coaxial with valveBiased openSingle inlet with multiple distinctly valved outletsSectional block structureWith fluid actuatorWith threaded actuatorContaining rotary valve	CROSS-R 900 901 902	REFERENCE ART COLLECTIONS BUMPLESS MANUAL TO AUTOMATIC RELAYS BIASED BALL VALVES WITH OPERATORS SLUSH PUMP CHECK VALVES
882 883 884 885 886 887	Spring coaxial with valveBiased openSingle inlet with multiple distinctly valved outletsSectional block structureWith fluid actuatorWith threaded actuatorContaining rotary valve .Flow path with serial valves	CROSS-F 900 901	REFERENCE ART COLLECTIONS BUMPLESS MANUAL TO AUTOMATIC RELAYS BIASED BALL VALVES WITH OPERATORS
882 883 884 885 886 887 613	Spring coaxial with valveBiased openSingle inlet with multiple distinctly valved outletsSectional block structureWith fluid actuatorWith threaded actuatorContaining rotary valve .Flow path with serial valves and/or closures	CROSS-R 900 901 902 903	REFERENCE ART COLLECTIONS BUMPLESS MANUAL TO AUTOMATIC RELAYS BIASED BALL VALVES WITH OPERATORS SLUSH PUMP CHECK VALVES RUBBER VALVE SPRINGS
882 883 884 885 886 887 613	Spring coaxial with valveBiased openSingle inlet with multiple distinctly valved outletsSectional block structureWith fluid actuatorWith threaded actuatorContaining rotary valve .Flow path with serial valves and/or closuresSeparable flow path section,	CROSS-F 900 901 902 903 904	REFERENCE ART COLLECTIONS BUMPLESS MANUAL TO AUTOMATIC RELAYS BIASED BALL VALVES WITH OPERATORS SLUSH PUMP CHECK VALVES RUBBER VALVE SPRINGS CUSHION CHECK VALVES
882 883 884 885 886 887 613	Spring coaxial with valveBiased openSingle inlet with multiple distinctly valved outletsSectional block structureWith fluid actuatorWith threaded actuatorContaining rotary valve .Flow path with serial valves and/or closuresSeparable flow path section, valve or closure in each	CROSS-F 900 901 902 903 904	REFERENCE ART COLLECTIONS BUMPLESS MANUAL TO AUTOMATIC RELAYS BIASED BALL VALVES WITH OPERATORS SLUSH PUMP CHECK VALVES RUBBER VALVE SPRINGS CUSHION CHECK VALVES ROTARY VALVES FOR MULTIPLE GAS
882 883 884 885 886 887 613	Spring coaxial with valveBiased openSingle inlet with multiple distinctly valved outletsSectional block structureWith fluid actuatorWith threaded actuatorContaining rotary valve .Flow path with serial valves and/or closuresSeparable flow path section, valve or closure in eachCommon joint and valve seat	CROSS-F 900 901 902 903 904 905	REFERENCE ART COLLECTIONS BUMPLESS MANUAL TO AUTOMATIC RELAYS BIASED BALL VALVES WITH OPERATORS SLUSH PUMP CHECK VALVES RUBBER VALVE SPRINGS CUSHION CHECK VALVES ROTARY VALVES FOR MULTIPLE GAS BURNERS
882 883 884 885 886 887 613	Spring coaxial with valveBiased openSingle inlet with multiple distinctly valved outletsSectional block structureWith fluid actuatorWith threaded actuatorContaining rotary valve .Flow path with serial valves and/or closuresSeparable flow path section, valve or closure in eachCommon joint and valve seat faces, or sections joined by	CROSS-F 900 901 902 903 904 905 906 907	REFERENCE ART COLLECTIONS BUMPLESS MANUAL TO AUTOMATIC RELAYS BIASED BALL VALVES WITH OPERATORS SLUSH PUMP CHECK VALVES RUBBER VALVE SPRINGS CUSHION CHECK VALVES ROTARY VALVES FOR MULTIPLE GAS BURNERS VALVES BIASED BY FLUID "SPRINGS" VACUUM-ACTUATED VALVES
882 883 884 885 886 887 613 614	Spring coaxial with valveBiased openSingle inlet with multiple distinctly valved outletsSectional block structureWith fluid actuatorWith threaded actuatorContaining rotary valve .Flow path with serial valves and/or closuresSeparable flow path section, valve or closure in eachCommon joint and valve seat faces, or sections joined by closing members	CROSS-R 900 901 902 903 904 905 906 907 908	BUMPLESS MANUAL TO AUTOMATIC RELAYS BIASED BALL VALVES WITH OPERATORS SLUSH PUMP CHECK VALVES RUBBER VALVE SPRINGS CUSHION CHECK VALVES ROTARY VALVES FOR MULTIPLE GAS BURNERS VALVES BIASED BY FLUID "SPRINGS" VACUUM-ACTUATED VALVES RESPIRATOR CONTROL
882 883 884 885 886 887 613 614	Spring coaxial with valveBiased openSingle inlet with multiple distinctly valved outletsSectional block structureWith fluid actuatorWith threaded actuatorContaining rotary valve .Flow path with serial valves and/or closuresSeparable flow path section, valve or closure in eachCommon joint and valve seat faces, or sections joined by closing membersEach valve and/or closure	CROSS-R 900 901 902 903 904 905 906 907 908 909	REFERENCE ART COLLECTIONS BUMPLESS MANUAL TO AUTOMATIC RELAYS BIASED BALL VALVES WITH OPERATORS SLUSH PUMP CHECK VALVES RUBBER VALVE SPRINGS CUSHION CHECK VALVES ROTARY VALVES FOR MULTIPLE GAS BURNERS VALVES BIASED BY FLUID "SPRINGS" VACUUM-ACTUATED VALVES
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882 883 884 885 886 887 613 614 614.01	Spring coaxial with valveBiased openSingle inlet with multiple distinctly valved outletsSectional block structureWith fluid actuatorWith threaded actuatorContaining rotary valve .Flow path with serial valves and/or closuresSeparable flow path section, valve or closure in eachCommon joint and valve seat faces, or sections joined by closing membersEach valve and/or closure operated by coupling motionLinear motion of flow path	CROSS-R 900 901 902 903 904 905 906 907 908 909	BUMPLESS MANUAL TO AUTOMATIC RELAYS BIASED BALL VALVES WITH OPERATORS SLUSH PUMP CHECK VALVES RUBBER VALVE SPRINGS CUSHION CHECK VALVES ROTARY VALVES FOR MULTIPLE GAS BURNERS VALVES BIASED BY FLUID "SPRINGS" VACUUM-ACTUATED VALVES RESPIRATOR CONTROL MAGNETIC FLUID VALVE
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882 883 884 885 886 887 613 614 614.01 614.02 614.03 614.04 614.05	Spring coaxial with valveBiased openSingle inlet with multiple distinctly valved outletsSectional block structureWith fluid actuatorWith threaded actuatorContaining rotary valve .Flow path with serial valves and/or closuresSeparable flow path section, valve or closure in eachCommon joint and valve seat faces, or sections joined by closing membersEach valve and/or closure operated by coupling motionLinear motion of flow path sections operates bothValves actuate each otherValve- or closure-operated by coupling motionCoupling interlocked with	CROSS-R 900 901 902 903 904 905 906 907 908 909 910	BUMPLESS MANUAL TO AUTOMATIC RELAYS BIASED BALL VALVES WITH OPERATORS SLUSH PUMP CHECK VALVES RUBBER VALVE SPRINGS CUSHION CHECK VALVES ROTARY VALVES FOR MULTIPLE GAS BURNERS VALVES BIASED BY FLUID "SPRINGS" VACUUM-ACTUATED VALVES RESPIRATOR CONTROL MAGNETIC FLUID VALVE DESTRUCTIBLE OR DEFORMABLE ELEMENT CONSTRUCTED OF

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