

Symbol	Typ	Titel
F	Sektion	MECHANICAL ENGINEERING; LIGHTING; HEATING; WEAPONS; BLASTING
F04	Klasse	POSITIVE-DISPLACEMENT MACHINES FOR LIQUIDS; PUMPS FOR LIQUIDS OR ELASTIC FLUIDS
F04F	Unterklasse	PUMPING OF FLUID BY DIRECT CONTACT OF ANOTHER FLUID OR BY USING INERTIA OF FLUID TO BE PUMPED (containers or packages with special means for dispensing liquid or semi-liquid contents by internal gaseous pressure B65D 83/14); SIPHONS [2]
F04F 1/00	Hauptgruppe	Pumps using positively or negatively pressurised fluid medium acting directly on the liquid to be pumped (using only negative pressure F04F 3/00; jet pumps F04F 5/00; siphons F04F 10/00) [1, 2006.01]
F04F 1/02	1-Punkt Untergruppe	. using both positively and negatively pressurised fluid medium, e.g. alternating [1, 2006.01]
F04F 1/04	2-Punkt Untergruppe	. . generated by vaporising and condensing [1, 2006.01]
F04F 1/06	1-Punkt Untergruppe	. the fluid medium acting on the surface of the liquid to be pumped (F04F 1/02 takes precedence) [1, 2006.01]
F04F 1/08	2-Punkt Untergruppe	. . specially adapted for raising liquids from great depths, e.g. in wells [1, 2006.01]
F04F 1/10	2-Punkt Untergruppe	. . of multiple type, e.g. with two or more units in parallel (F04F 1/08 takes precedence) [1, 2006.01]
F04F 1/12	3-Punkt Untergruppe	. . . in series [1, 2006.01]
F04F 1/14	2-Punkt Untergruppe	. . adapted to pump specific liquids, e.g. corrosive or hot liquids [1, 2006.01]
F04F 1/16	2-Punkt Untergruppe	. . characterised by the fluid medium being suddenly pressurised, e.g. by explosion [1, 2006.01]
F04F 1/18	1-Punkt Untergruppe	. the fluid medium being mixed with, or generated from, the liquid to be pumped [1, 2006.01]
F04F 1/20	2-Punkt Untergruppe	. . specially adapted for raising liquids from great depths, e.g. in wells [1, 2006.01]
F04F 3/00	Hauptgruppe	Pumps using negative pressure acting directly on the liquid to be pumped (siphons F04F 10/00) [1, 2006.01]
F04F 5/00	Hauptgruppe	Jet pumps, i.e. devices in which fluid flow is induced by pressure drop caused by velocity of another fluid flow (diffusion pumps F04F 9/00; combination of jet pumps with pumps of other than jet type F04B; use of jet pumps for priming or boosting non-positive-displacement pumps F04D) [1, 2006.01]
F04F 5/02	1-Punkt Untergruppe	. the inducing fluid being liquid [1, 2006.01]
F04F 5/04	2-Punkt Untergruppe	. . displacing elastic fluids [1, 2006.01]
F04F 5/06	3-Punkt Untergruppe	. . . of rotary type [1, 2006.01]
F04F 5/08	3-Punkt Untergruppe	. . . the elastic fluid being entrained in a free-falling column of liquid [1, 2006.01]
F04F 5/10	2-Punkt Untergruppe	. . displacing liquids, e.g. containing solids, or liquids and elastic fluids [1, 2006.01]
F04F 5/12	3-Punkt Untergruppe	. . . of multi-stage type [1, 2006.01]
F04F 5/14	1-Punkt Untergruppe	. the inducing fluid being elastic fluid [1, 2006.01]
F04F 5/16	2-Punkt Untergruppe	. . displacing elastic fluids [1, 2006.01]
F04F 5/18	3-Punkt Untergruppe	. . . for compressing [1, 2006.01]
F04F 5/20	3-Punkt Untergruppe	. . . for evacuating [1, 2006.01]
F04F 5/22	4-Punkt Untergruppe of multi-stage type [1, 2006.01]

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F04F 5/24	2-Punkt Untergruppe	. . displacing liquids, e.g. containing solids, or liquids and elastic fluids [1, 2006.01]
F04F 5/26	3-Punkt Untergruppe	. . . of multi-stage type (F04F 5/28 takes precedence) [1, 2006.01]
F04F 5/28	3-Punkt Untergruppe	. . . Restarting of inducing action [1, 2006.01]
F04F 5/30	4-Punkt Untergruppe with axially-slidable combining nozzle [1, 2006.01]
F04F 5/32	4-Punkt Untergruppe with hinged flap in combining nozzle [1, 2006.01]
F04F 5/34	2-Punkt Untergruppe	. . characterised by means for changing inducing-fluid source [1, 2006.01]
F04F 5/36	2-Punkt Untergruppe	. . characterised by using specific inducing fluid [1, 2006.01]
F04F 5/38	3-Punkt Untergruppe	. . . the inducing fluid being mercury vapour [1, 2006.01]
F04F 5/40	3-Punkt Untergruppe	. . . the inducing fluid being oil vapour [1, 2006.01]
F04F 5/42	1-Punkt Untergruppe	. characterised by the input flow of inducing fluid medium being radial or tangential to output flow (cyclones B04C) [1, 2006.01]
F04F 5/44	1-Punkt Untergruppe	. Component parts, details, or accessories not provided for in, or of interest apart from, groups F04F 5/02-F04F 5/42 [1, 2006.01]
F04F 5/46	2-Punkt Untergruppe	. . Arrangements of nozzles [1, 2006.01]
F04F 5/48	2-Punkt Untergruppe	. . Control [1, 2006.01]
F04F 5/50	3-Punkt Untergruppe	. . . of compressing pumps [1, 2006.01]
F04F 5/52	3-Punkt Untergruppe	. . . of evacuating pumps [1, 2006.01]
F04F 5/54	1-Punkt Untergruppe	. Installations characterised by use of jet pumps, e.g. combinations of two or more jet pumps of different type [1, 2006.01]
F04F 7/00	Hauptgruppe	Pumps displacing fluids by using inertia thereof, e.g. by generating vibrations therein [1, 2006.01]
F04F 7/02	1-Punkt Untergruppe	. Hydraulic rams [1, 2006.01]
F04F 9/00	Hauptgruppe	Diffusion pumps [1, 2006.01]
F04F 9/02	1-Punkt Untergruppe	. of multi-stage type [1, 2006.01]
F04F 9/04	1-Punkt Untergruppe	. in combination with fore pumps, e.g. use of isolating valves [1, 2006.01]
F04F 9/06	1-Punkt Untergruppe	. Arrangement of vapour traps [1, 2006.01]
F04F 9/08	1-Punkt Untergruppe	. Control [1, 2006.01]
F04F 10/00	Hauptgruppe	Siphons [1, 2006.01]
F04F 10/02	1-Punkt Untergruppe	. Gravity-actuated siphons [1, 2006.01]
F04F 13/00	Hauptgruppe	Pressure exchangers [2009.01]
F04F 99/00	Hauptgruppe	Subject matter not provided for in other groups of this subclass [2009.01]