tapflo®

# PT - PERISTALTIC PUMPS

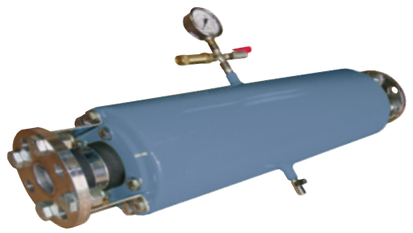
# PT peristaltic pumps - hose pump

*The Tapflo PT pump combine the best available materials with smart design solutions in order to maximise running time and minimise maintenance. Our design enhances the pump's simplicity and robust principle. PT summarizes what we at Tapflo want to achieve: better pump solutions for our customers.*

## Advantages of the PT pump:

- No mechanical seal or stuffing box
- Robust, entirely of ductile iron
- Suitable for aggressive or viscous fluids
- Dosing of very corosive chemicals
- Fully self-priming up to 9,8 m
- Damage-free continuous dry running
- Outlet pressures up to 15 bar
- Very easy maintenance
- Visserie en acier inoxydable
- Heavy-duty bearings, greased for life
- Two-year warranty
- Plug and Play
- Reversible flow
- Close coupled with gearbox protection
- Low sound level : < 70 dB at 1meter

The PT hose pump is in many ways the future of pumping – a reliable pump with a wide performance range, up to 150 m3/h and 15 bars, that can handle most fluids in most applications.



The Tapflo PT pump in-line pulsation dampener will reduce vibration and water hammers in your piping therefore increasing the hose life.

Easy to use and maintain – two key issues that will

# lower costs & reduce downtime

**How it works**
Two shoes mounted at 180° on a rotating wheel compress successively a reinforced rubber hose that contains a fluid to be pumped. The compression of the hose by the rotating shoes creates continuous suction at the inlet of the pump and pushes the fluid to the outlet of the pump.

The pump casing contains a lubricant that reduces friction and insures the best pump performance with a minimum of maintenance. The pumped fluid is in contact only with the interior of the rubber hose, thus permitting the pumping of a wide variety of reactive fluids.

**Easy to use**
The PT pump is very easy to use and maintain and therefore addresses what we at Tapflo see as two of the key customer issues : the need to lower costs and to reduce downtime. This is done by using a pump without valves, pistons, stators or rotating elements in the fluid. The PT series is designed to make hose changes quick and easy with no technical knowledge required.

**Tapflo PT hose construction**
We only work with high quality compounded rubbers, reinforced with 2 to 6 individual layers of braided polyamide and with an outer layer made to strict tolerances to ensure perfect compression. The caracteristics of Tapflo hoses enable them to last approximately 30 % longer than other hoses on the market. They also fit the majority of other hose pumps.

### Options

- Twinhead pump, several pump bodies inline driven by the same gear motor
- Special excecutions and different connections such as SMS, Clamp, DIN, ANSI, coupling and cover...etc
- Pump rollers for pump without lubricant
- Hose rupture detector and revolution counter
- ATEX II & I certification

## Typical Applications

**Water treatment** lime cream, ferrous chloride, activated carbon, reagent feed, coagulant, floculate dispersion, alum, sludge and foams.

**Mineral processing** sludge with viscosity up to 60 000 cps, clay up to 800g/l, particle size: 30 mm, lead sulfate,pyrite, sabx, cyanide, various acids.

**Ceramic** barbotine, mould filling, filter press feeding. Building fibrous mortar, plaster, light concrete, cement flooring.

**Chemical industry** various acids, pvdf latex, alcohol, soap, non aromatic solvents.

**Food industry** tomato sauce, mash potatoes, gelatin, beer yeast, fish paste, olive oil, wine. Paint, water based paint, acrylics, pigments, ink, wall coating.

**Paper mills** latex, kaolin, paper waste sludge, various chemical dosing.

**Agriculture** manure, fertilizer sugar mills, molasse, liquid sugar and various chemicals.


**Tapflo pump hose** For the hose inner layers, 6 materials are available to suit the diversity of the pumped fluids:

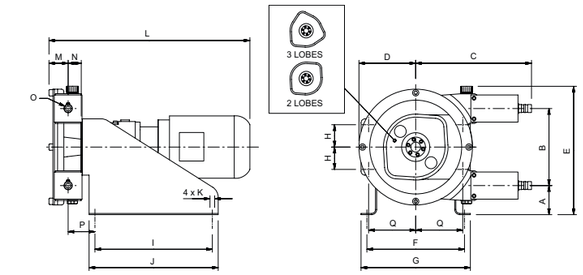
- NR: Natural rubber (white marking)
- NBR: Buna (yellow marking)
- NBR Food* approuved FDA: Buna (white & yellow marking)
- EPDM (red marking)
- HYPALON* (blue marking)
- VITON/FKM* (purple marking)

**Any other hoses material requirements available on request*

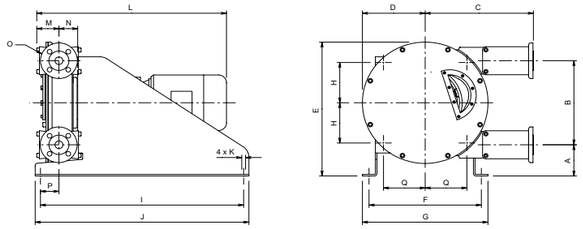
# PT peristaltic pumps - technicals characteristics

## Construction

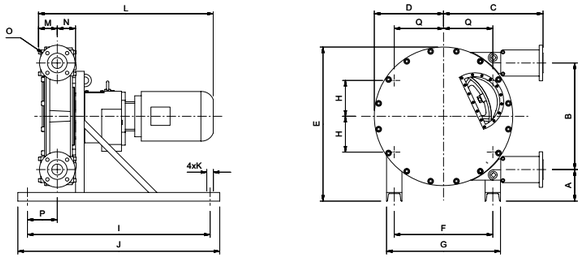
PT 05 - 20




PT 25 - 40




PT 40 - 125




## Dimensions

All dimensions and technical data is subject to change without notice

| TYPE | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O (Brides ISO) | P | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **PT 05** | 103,5 | 115 | 226 | 95 | 256 | 220 | 240 | 33,5 | 260 | 280 | 4xø9 | - | 46,5 | 34,5 | ø16 * | 56 | 81,25 |
| **PT 10** | 103,5 | 115 | 226 | 95 | 256 | 220 | 240 | 33,5 | 260 | 280 | 4xø9 | - | 46,5 | 34,5 | ø16 * | 56 | 81,25 |
| **PT 15** | 73 | 193 | 296 | 145 | 322 | 250 | 280 | 51,75 | 300 | 330 | 4xø13 | - | 49 | 35,5 | ø20 * | 68,8 | 124,75 |
| **PT 20** | 73 | 193 | 296 | 145 | 322 | 250 | 280 | 51,75 | 300 | 330 | 4xø13 | - | 49 | 35,5 | ø25 * | 68,8 | 124,75 |
| **PT 25** | 95 | 262 | 355,5 | 190 | 416 | 311 | 351 | 110 | 560 | 600 | 4xø13 | - | 65 | 69 | DN25 PN16 | 61 | 110 |
| **PT 32** | 122,5 | 330 | 435,5 | 238 | 525,5 | 426 | 476 | 157,75 | 770 | 810 | 4xø13 | - | 83 | 89 | DN32 PN16 | 109 | 157,75 |
| **PT 40** | 122,5 | 330 | 435,5 | 238 | 525,5 | 426 | 476 | 157,75 | 770 | 810 | 4xø13 | - | 83 | 89 | DN40 PN16 | 109 | 157,75 |
| **PTX 40** | 110 | 430 | 400 | 291 | 616 | 340 | 420 | 170 | 850 | 950 | 4xø19 | - | 75 | 86 | DN40 PN16 | 87 | 170 |
| **PT 50** | 164,5 | 554 | 517,5 | 360 | 801,5 | 513 | 593 | 186,5 | 950 | 1050 | 4xø19 | - | 94,5 | 102 | DN50 PN16 | 152 | 256,5 |
| **PT 65** | 164,5 | 554 | 517,5 | 360 | 801,5 | 513 | 593 | 186,5 | 950 | 1050 | 4xø19 | - | 94,5 | 102 | DN65 PN16 | 152 | 256,5 |
| **PTX 80** | 154 | 746 | 604 | 473 | 1004 | 580 | 680 | 290 | 1150 | 1250 | 4xø19 | - | 129 | 123 | DN80 PN16 | 117 | 290 |
| **PT 80** | 262 | 876 | 803 | 555 | 1320 | 690 | 830 | 345 | 1300 | 1400 | 4xø27 | - | 140,5 | 142 | DN80 PN16 | 210 | 345 |
| **PT 100** | 300 | 1040 | 887 | 685 | 1680 | 820 | 960 | 410 | 1900 | 2000 | 4xø27 | - | 149 | 174 | DN100 PN16 | 295 | 410 |
| **PT 125** | 263,5 | 1273 | 1038 | 785 | 1750 | 1000 | 1140 | 500 | 1900 | 2000 | 4xø27 | - | 300 | 232 | DN125 PN16 | 660 | 500 |

# Flow table (l/h)

| TYPE | 10 Rpm | 20 Rpm | 40 Rpm | 60 Rpm | 80 Rpm | 100 Rpm | 120 Rpm | 140 Rpm |
|---|---|---|---|---|---|---|---|---|
| **PT 05 (3 lobes)** | 3.4 | 6.8 | 13.6 | 20.4 | | | | |
| **PT10 (3 lobes)** | 10 | 20 | 40 | 60 | | | | |
| **PT 10** | 15 | 30 | 60 | 90 | 120 | 150 | 180 | |
| **PT 15** | 50 | 100 | 200 | 300 | 400 | 500 | 600 | |
| **PT 20** | 65 | 170 | 340 | 500 | 670 | 850 | 970 | |
| **PT 25** | 200 | 400 | 800 | 1 200 | 1 600 | 2 000 | 2 400 | 2 800 |
| **PT 32** | 375 | 750 | 1 500 | 2 250 | 3 000 | 3 750 | 4 500 | 5 250 |
| **PT 40** | 565 | 1 170 | 2 340 | 3 510 | 4 680 | 6 850 | 7 020 | 8 190 |
| **PTX 40** | 800 | 1 600 | 3 200 | 4 800 | 6 400 | 8 000 | | |
| **PT 50** | 1750 | 3 500 | 7 000 | 10 500 | 14 000 | 17 500 | | |
| **PT 65** | 2300 | 4 600 | 9 200 | 13 800 | 18 400 | 23 000 | | |

| TYPE | 10 Rpm | 20 Rpm | 30 Rpm | 35 Rpm | 40 Rpm | 45 Rpm | 50 Rpm | |
|---|---|---|---|---|---|---|---|---|
| PTX 80 | 5 500 | 11 000 | 16 500 | 19 250 | 22 000 | 24 750 | 27 500 | |
| PT 80 | 7 000 | 14 000 | 21 000 | 24 500 | 28 000 | 31 500 | 35 000 | |
| PT 100 | 12 000 | 24 000 | 36 000 | 42 000 | 48 000 | 54 000 | | |
| PT 125 | 22 000 | 44 000 | 66 000 | 77 000 | 88 000 | | | |

Continuous use (l/h)

Intermittent use(l/h)

Occasional use (l/h)
< 1 hour/day

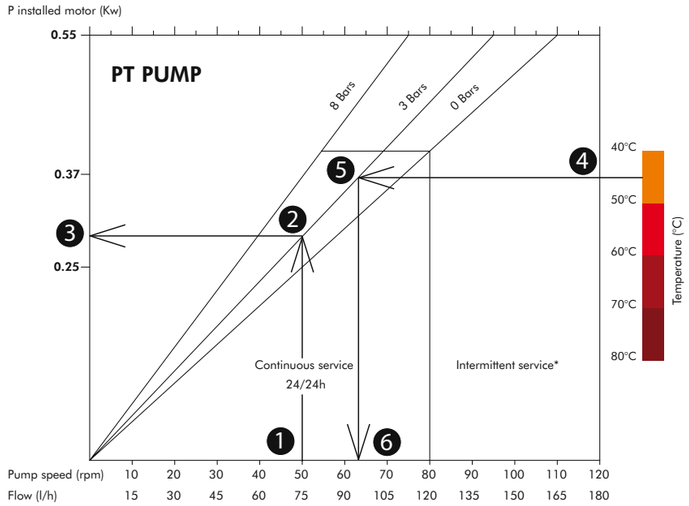
## Tapflo PTS serie

for customers who require a long shaft technology, Tapflo PUMP has also developed the PTS series. These pumps are equipped with a removable bearing case for easy bearing maintenance and can be converted into a close coupling PT type pump at any time.

## Flow curves PT pump

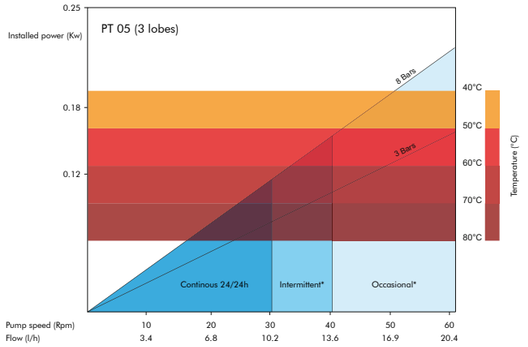
**How to use the pump curves**

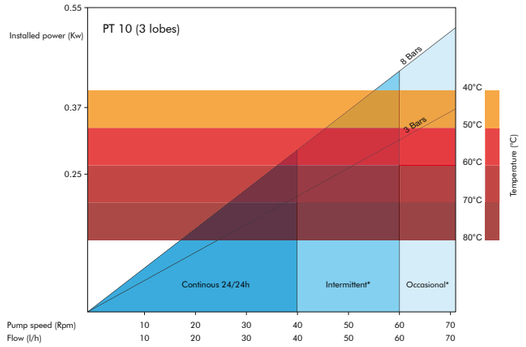
1. Select the required flow. This gives you the required pumpspeed.
2. Move upwards to the calculated discharge pressure.
3. Move to the left for the installed motor power.
4. Determine the fluid's max. temperature.
5. Move to the left to the calculated discharge pressure.
6. Move downwards to determine your maximum allowed pump speed for the fluids temperature.

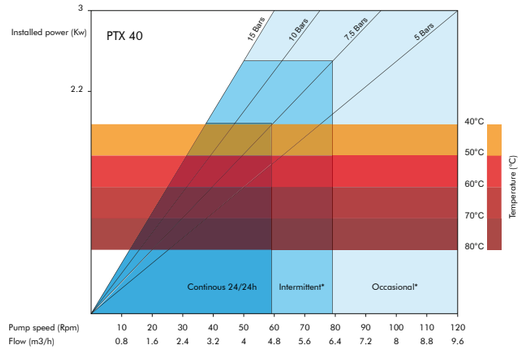


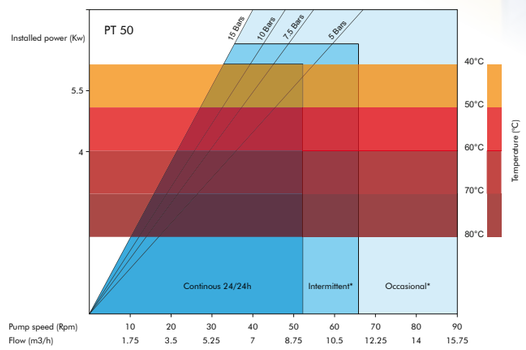
# PT peristaltic pumps - technicals characteristics

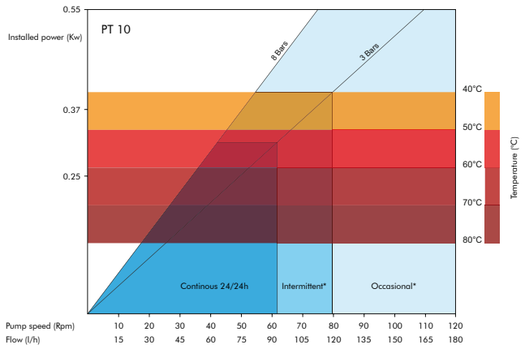
## Flow curves

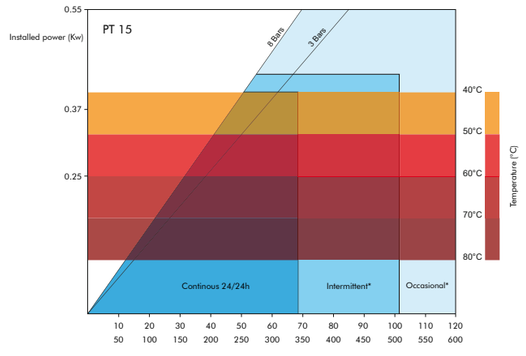


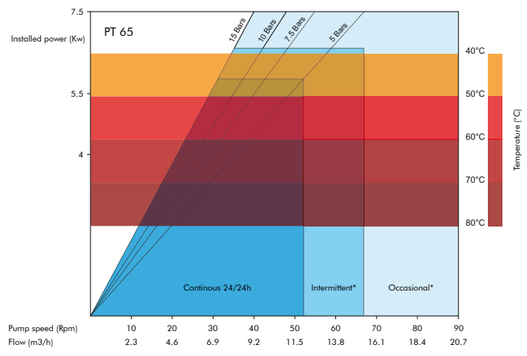



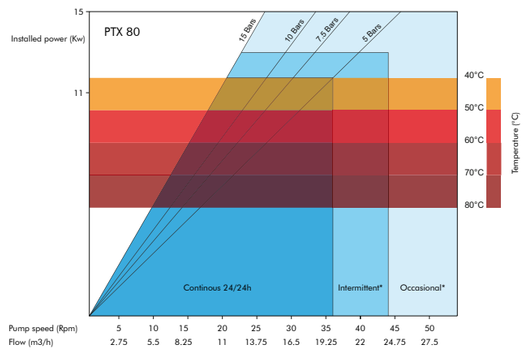



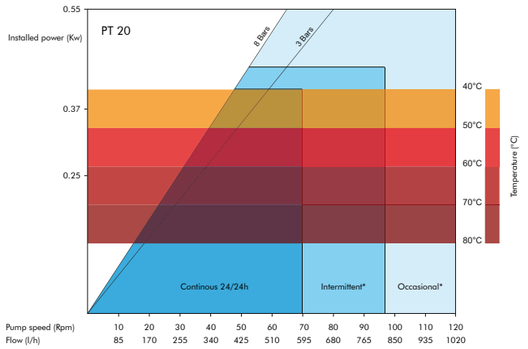



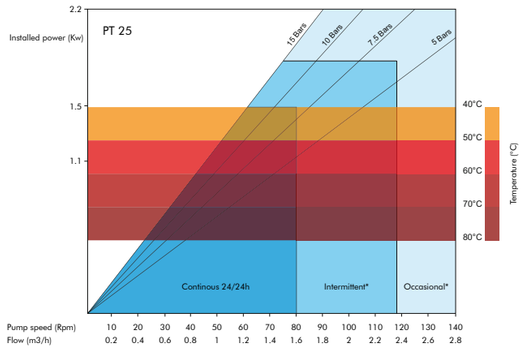



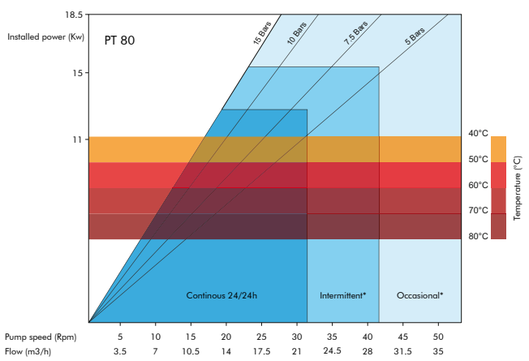



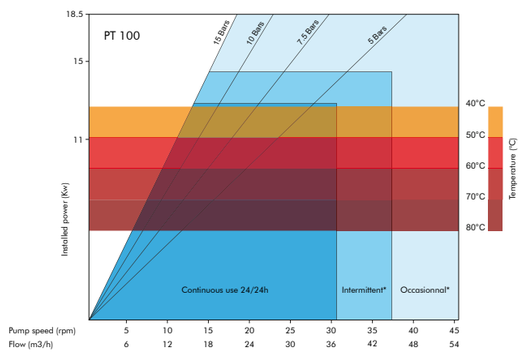



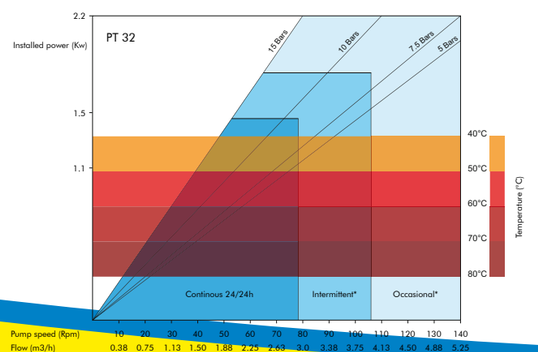



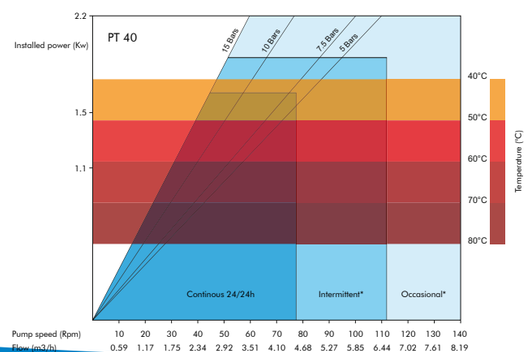



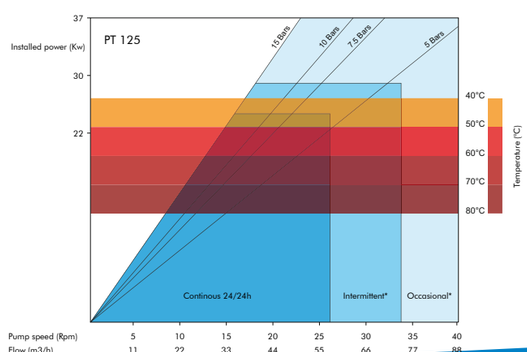




* Intermittent use : Minimum of 1 hour stop after 2 hours use

* Occasional use : Maximum 1 hour per day

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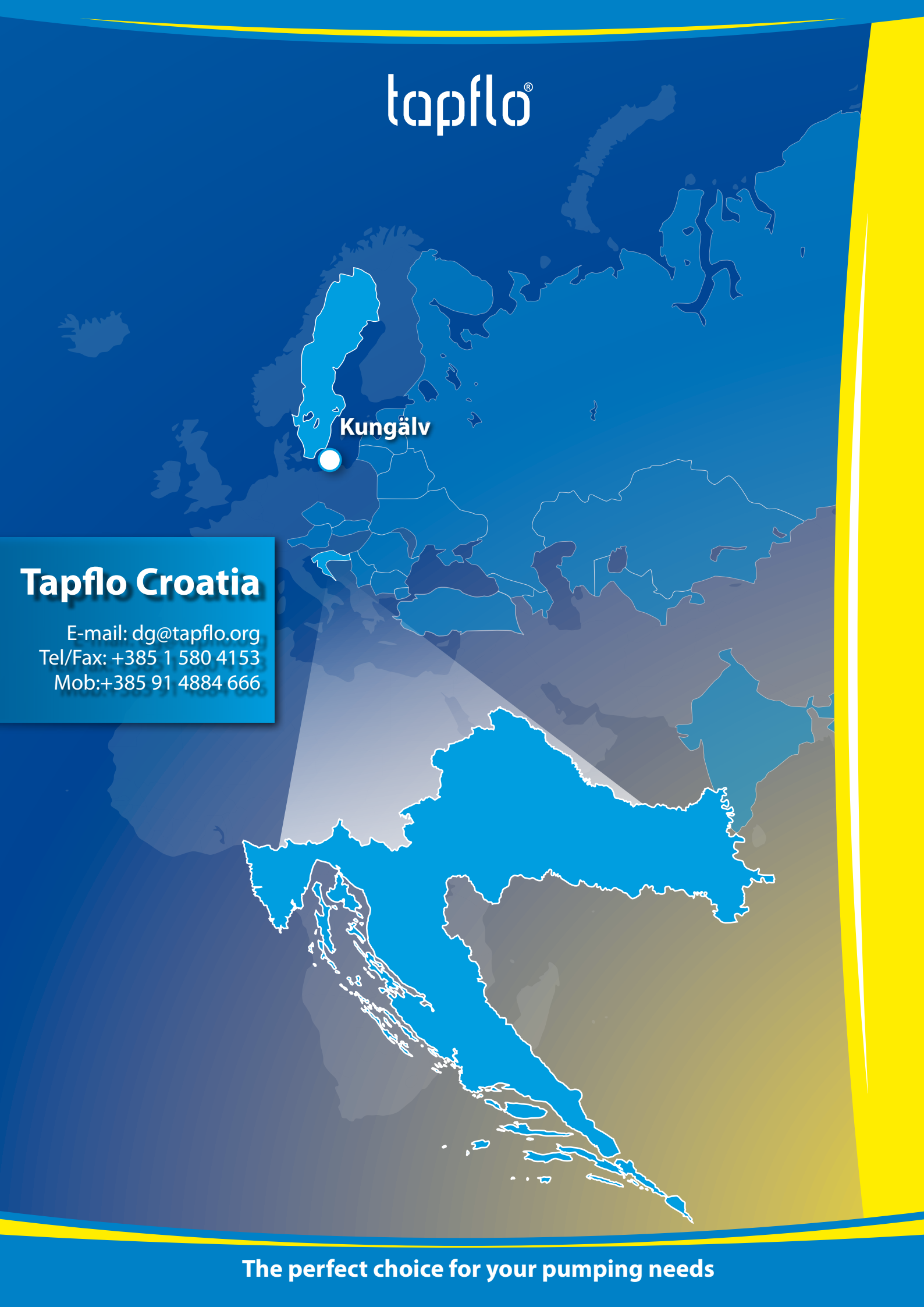


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**The perfect choice for your pumping needs**