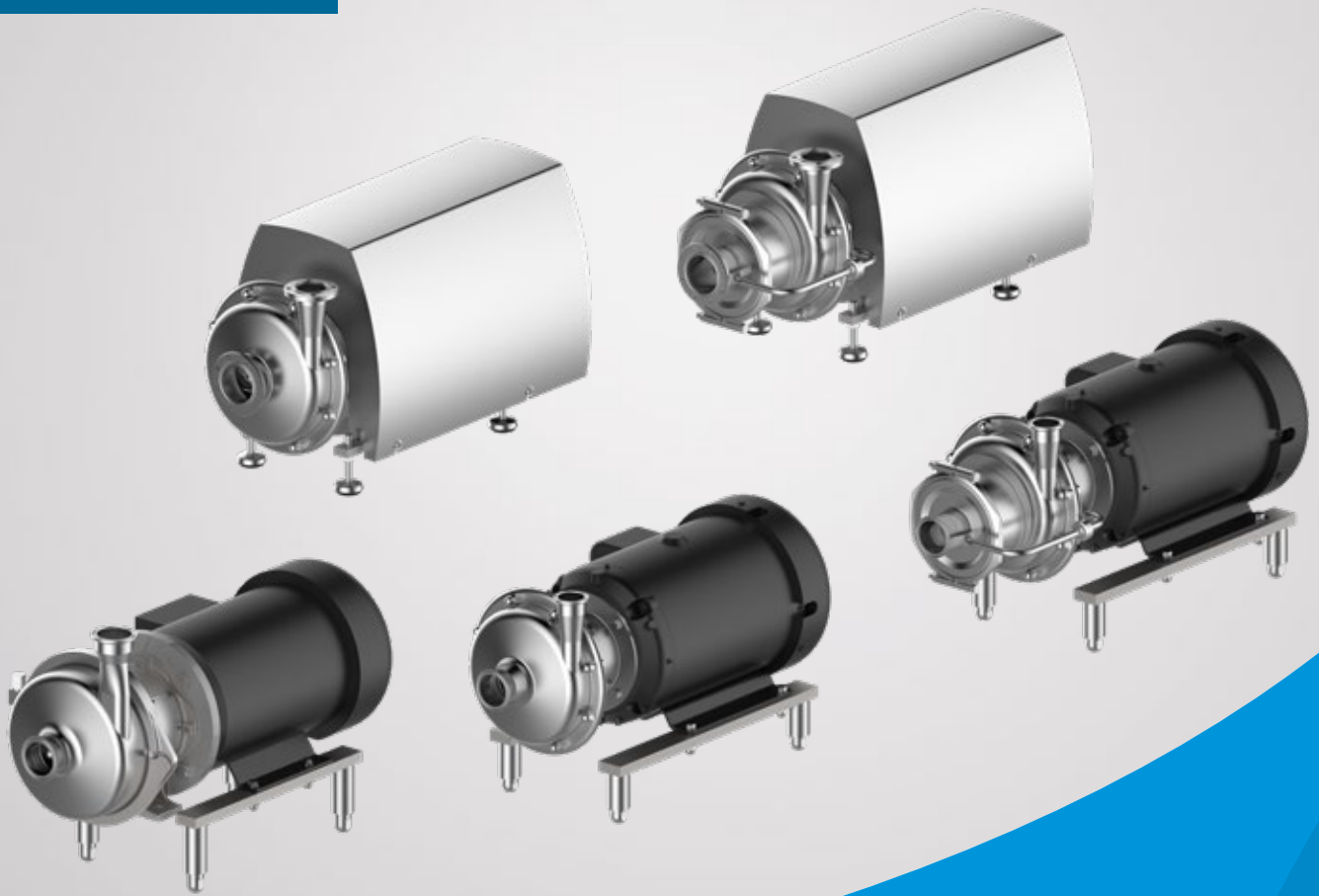


GEA VARIPUMP

GEA SMARTPUMP



GEA Hygienic Pumps Type Code

The new type code

Overview of model range

Concept

As of June 2018, a new type code is in effect for all GEA Hilge TP and TPS hygienic pumps as well as for the GEA Hilge HYGIA for the US market. The new code is based on the established type code for GEA Hilge TP and TPS models. It is initially included in all printed offer and confirmation documents and will appear on the name plate starting June 2018.

The new type code makes it easy to identify pumps and appropriate spare parts. Standard variants are defined in the code. A long-term goal is to make it possible to order any standard variant with just the type code. Custom variants are not fully defined in the code, but can be identified as non-standard.

This brochure introduces the new code in its various possible forms and variants. It lists all parameters even if they concern only selected pump model series. An example code for GEA Hilge HYGIA is included at the end.



Pump type code GEA Hilge HYGIA (US version)

| Position | Composition of type code |
|----------|--|
| 1 | Pump type HYGIA I HYGIA II |
| 2 | No. of stages 1 1-stage |
| 3 | Version D 3-A A+C Non 3-A |
| 4 | Design A Adapta K Plug-in shaft |
| 5 | Mounting H On 3-A stainless steel adjustable feet M On motor foot C On combi foot B On adjustable feet 2 On 2-wheel trolley (US) 4 On 4-wheel trolley (US) F On Adapta foot W Without feet |
| 6 | Stainless steel shroud S With stainless steel shroud W Without stainless steel shroud |
| 7 | Impeller C Semi-open A Free-flow 3-A B Free-flow |
| 8 | Impeller diameter (mm) |
| 9 | Connection type COA Tri-clamp QL Q-line clamp IL I-line clamp TN VARIVENT® flange AAB ANSI-B 16.5 flange ASN DIN 11864-2/DIN 11853-2 flange NPT NPT thread SMG SMS thread BEV ACME bevel thread GO DIN 11851 thread |
| 10 | Connection norm D DIN O OD I ISO |
| 11 | Diameter suction side 32–125 DIN 1¼" (1.25)–5" (5) OD 42.4 (41)–219.1 (219) ISO |

Pump type code GEA Hilge TP/TPS

| Position | Composition of type code | | | | | | | | | | | | | | | | | | |
|----------|--|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--|----------|----------|----------|----------|--|--|
| 1 | Pump type <table border="1"> <tr> <td>TP 1020</td> <td>TP 1540</td> <td>TP 2030</td> </tr> <tr> <td>TP 2050</td> <td>TP 2575</td> <td>TP 3050</td> </tr> <tr> <td>TP 5060</td> <td>TP 7060</td> <td>TP 8050</td> </tr> <tr> <td>TP 8080</td> <td>TP 16040</td> <td></td> </tr> </table> <table border="1"> <tr> <td>TPS 2030</td> <td>TPS 3050</td> <td>TPS 8050</td> </tr> <tr> <td>TPS 8080</td> <td></td> <td></td> </tr> </table> | TP 1020 | TP 1540 | TP 2030 | TP 2050 | TP 2575 | TP 3050 | TP 5060 | TP 7060 | TP 8050 | TP 8080 | TP 16040 | | TPS 2030 | TPS 3050 | TPS 8050 | TPS 8080 | | |
| TP 1020 | TP 1540 | TP 2030 | | | | | | | | | | | | | | | | | |
| TP 2050 | TP 2575 | TP 3050 | | | | | | | | | | | | | | | | | |
| TP 5060 | TP 7060 | TP 8050 | | | | | | | | | | | | | | | | | |
| TP 8080 | TP 16040 | | | | | | | | | | | | | | | | | | |
| TPS 2030 | TPS 3050 | TPS 8050 | | | | | | | | | | | | | | | | | |
| TPS 8080 | | | | | | | | | | | | | | | | | | | |
| 2 | No. of stages 1 1-stage | | | | | | | | | | | | | | | | | | |
| 3 | Version D 3-A A/B/C Non 3-A | | | | | | | | | | | | | | | | | | |
| 4 | Design K Plug-in shaft | | | | | | | | | | | | | | | | | | |
| 5 | Mounting H On 3-A stainless steel adjustable feet M On motor foot B On adjustable feet | | | | | | | | | | | | | | | | | | |
| 6 | Stainless steel shroud S With stainless steel shroud W Without stainless steel shroud | | | | | | | | | | | | | | | | | | |
| 7 | Impeller C Semi-open | | | | | | | | | | | | | | | | | | |
| 8 | Impeller diameter (mm) | | | | | | | | | | | | | | | | | | |
| 9 | Connection type COA Tri-clamp QL Q-line clamp IL I-line clamp TN VARIVENT® flange AAB ANSI-B 16.5 flange ASN DIN 11864-2/DIN 11853-2 flange NFK DIN 11864-2 flange TK VARIVENT® flange complete ASK DIN 11864-2 flange complete NPT NPT thread SMG SMS thread BEV ACME bevel thread GO DIN11851 thread GSK DIN 11864-1 thread RJT RJT thread IG IDF thread SMK SMS thread complete GK DIN 11851 thread complete RJK RJT thread complete AVK DIN 11864-1 thread complete | | | | | | | | | | | | | | | | | | |
| 10 | Connection norm D DIN O OD I ISO | | | | | | | | | | | | | | | | | | |
| 11 | Diameter suction side 40–150 DIN 1½" (1.5)–4" (4) OD 48.3 (48)–114.3 (144) ISO | | | | | | | | | | | | | | | | | | |

Pump type code GEA Hilge HYGIA (US version)

| Position | Composition of type code |
|----------|--|
| 12 | Diameter pressure side 32–125 DIN 1¼" (1.25)–5" (5) OD 42.4 (41)–219.1 (219) ISO |
| 13 | Surface roughness 1 R _a ≤ 125 µin (3.2 µm) 3 R _a ≤ 32 µin (0.8 µm) 4 R _a ≤ 16 µin (0.4 µm) |
| 14 | Material product-wetted parts 2 1.4404 (316L) 3 1.4435 (316L) |
| 15 | Ferrite content W Without restriction 1 ≤ 1 % |
| 16 | Execution of mechanical seal E Single Q Quench B Back to back (Double) T Tandem (Double) |
| 17 | Mechanical seal, execution of spring O Open spring V Open vacuum spring E Encapsulated spring S Encapsulated spring with lubrication groove |
| 18 | Mechanical seal material (static) a Carbon i SiC shrunk k SiC solid |
| 19 | Mechanical seal material (rotating) a Carbon e Stainless steel i SiC shrunk k SiC solid |
| 20 | Elastomer V FKM E EPDM B Buna K Kalrez F FEP-S H EPDM USP VI |
| 21 | Options C Drainage connection (Tri-clamp) D Drainage VTP G Drainage Gemu V Drainage Vesta S Special W Without drain |
| 22 | Further options Drain 0.75 ¾" W Without drain |

Pump type code GEA Hilge TP/TPS

| Position | Composition of type code |
|----------|--|
| 12 | Diameter pressure side 40–100 DIN 1½" (1.5)–4" (4) OD 48.3 (48)–114.3 (144) ISO |
| 13 | Surface roughness 1 R _a ≤ 125 µin (3.2 µm) 3 R _a ≤ 32 µin (0.8 µm) |
| 14 | Material product-wetted parts 2 1.4404 (316L) |
| 15 | Ferrite content W Without restriction |
| 16 | Execution of mechanical seal E Single Q Quench P Face to face (Double) |
| 17 | Mechanical seal, execution of spring E Encapsulated spring |
| 18 | Mechanical seal material (static) a Carbon i SiC shrunk k SiC solid |
| 19 | Mechanical seal material (rotating) a Carbon i SiC shrunk |
| 20 | Elastomer V FKM E EPDM |
| 21 | Options C Drainage connection (Tri-clamp) D Drainage VTP V Drainage Vesta S Special W Without drain |
| 22 | Further options Drain 0.75 ¾" W Without drain |

Example of GEA Hilge HYGIA pump type code:

| | | | | | | | | | | | | |
|----------|---------|----|----|----|----|----|----|-----|-----|----|----|----|
| Position | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | | | |
| Code | HYGIA I | 1 | D | K | H | W | C | 180 | COA | | | |
| 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| O | 2 | 2 | 3 | 2 | W | E | E | a | e | E | W | W |

Motor type code GEA Hygienic Pumps

| Position | Composition of type code |
|----------|---|
| 1 | Motor standard IEC NEMA IEC NEMA |
| 2 | No. of poles 2 2-pole 4 4-pole 6 6-pole 8 8-pole |
| 3 | Frequency 50 50 Hz 60 60 Hz |
| 4 | Motor power 1 hp to 60 hp or 0,75 kW to 45 kW |
| 5 | Voltage 400/690 400VD/690VY 230/400 230VD/400VY 220/380 220VD/380VY 208-230/460 208-230/460 |
| 6 | Motor design B5 B5 B34 B34 B35 B35 B3 B3 CM C-Face with foot CO C-Face without foot |
| 7 | Size 143TC to 364TSC or 80M to 225M |
| 8 | Efficiency class 3 IE 3 4 IE 4 5 IE 5 P NEMA premium efficiency S NEMA super premium efficiency |
| 9 | Protection class 55 IP55 56 IP56 65 IP65 66 IP66 |
| 10 | Motor supplier (alternative motor suppliers on request) S Standard |
| 11 | Options G General purpose W Washdown A Stainless steel washdown S Special |
| 12 | Terminal box L Left R Right O Top U Bottom |

| Position | Composition of type code |
|----------|---|
| 13 | External fan M With external fan W Without external fan |
| 14 | Thermistor M With thermistor W Without thermistor |
| 15 | Frequency converter F With integrated frequency converter W Without integrated frequency converter |
| 16 | ATEX M With ATEX W Without ATEX |

Example of motor type code:

| | | | | | | | | |
|----------|------|----|----|-------|-------------|----|-------|----|
| Position | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Code | NEMA | 2 | 60 | 15 HP | 208-230/460 | CM | 254TC | P |
| | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| | 55 | S | G | L | W | W | W | W |



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