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# INTERMOT - ADVANCED - MOTORS

## IAM SERIES

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### H3 MODEL

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**Standard Series:**  
**IAM 400-450-500**  
**600-650-700 H3**

**Special Series:**  
**IAM 450/C H3**  
**450/B30 H3**  
**800 H3**  
**800/N H3**

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| MODEL                |        | IAM<br>400<br>H3 | IAM<br>450<br>H3 | IAM<br>500<br>H3 | IAM<br>600<br>H3 | IAM<br>650<br>H3 | IAM<br>700<br>H3 | IAM<br>800<br>H3 |
|----------------------|--------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Displacement         | cc/rev | 397              | 452              | 491              | 594              | 660              | 707              | 791              |
| Specific Torque      | Nm/bar | 6.3              | 7.2              | 7.8              | 9.4              | 10.5             | 11.2             | 12.6             |
| Max cont. Pressure   | bar    | 230              | 230              | 230              | 230              | 190              | 190              | 170              |
| Max int. Pressure    | bar    | 280              | 280              | 280              | 280              | 240              | 240              | 210              |
| Peak pressure        | bar    | 350              | 350              | 350              | 350              | 300              | 300              | 250              |
| Max continuous speed | rpm    | 600              | 600              | 600              | 550              | 500              | 450              | 400              |
| Peak speed           | rpm    | 680              | 680              | 680              | 630              | 580              | 500              | 450              |
| Max power            | HP     | 91               | 91               | 91               | 91               | 91               | 91               | 91               |
|                      | kW     | 68               | 68               | 68               | 68               | 68               | 68               | 68               |

- N° of pistons: 5
- Max case pressure: 6 bar
- Max back pressure: 70 bar
- Dry weight: 68 kg
- Temperature range: -30°C ÷ +70°C
- Minimum speed: 1 rpm
- Flushing flow<sup>(\*)</sup>:
 

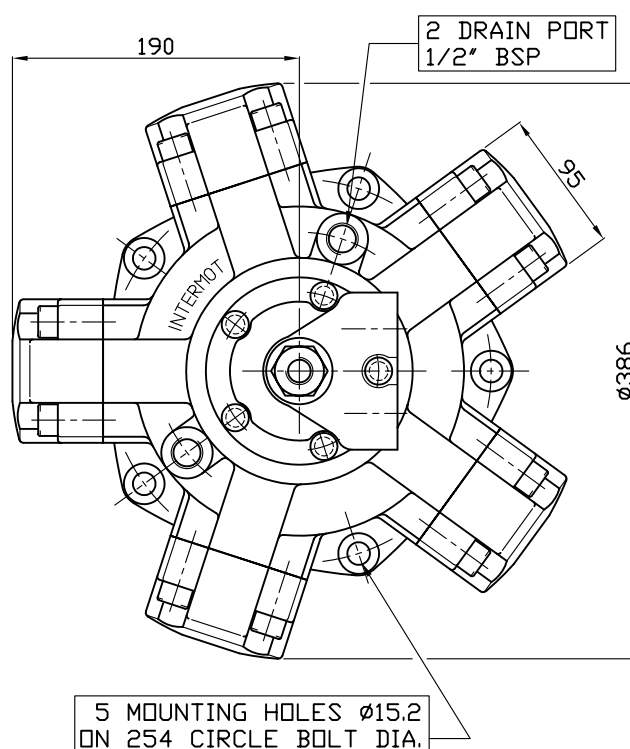
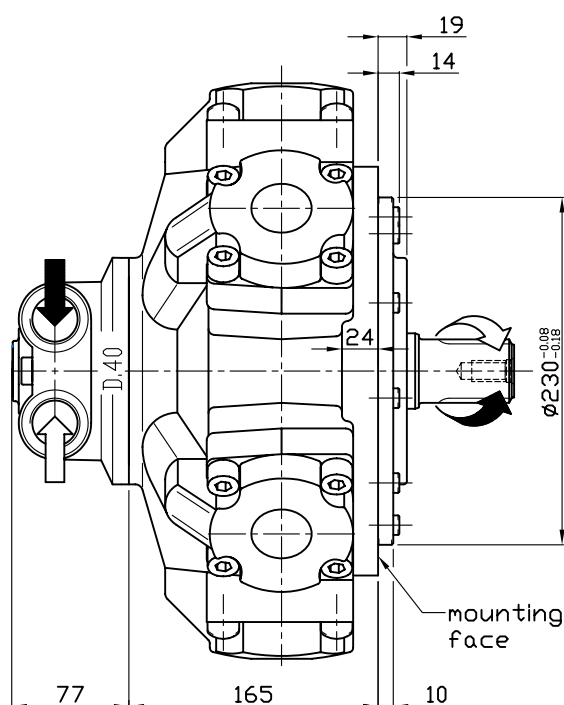
|                              |          |
|------------------------------|----------|
| IAM H3 400 – 450 – 500       | 8 l/min  |
| IAM H3 600 – 650 – 700 – 800 | 10 l/min |

(\*) for further details about flushing, read pag. 9

## SIZE

IAM H3 400-450-500-600-650-700

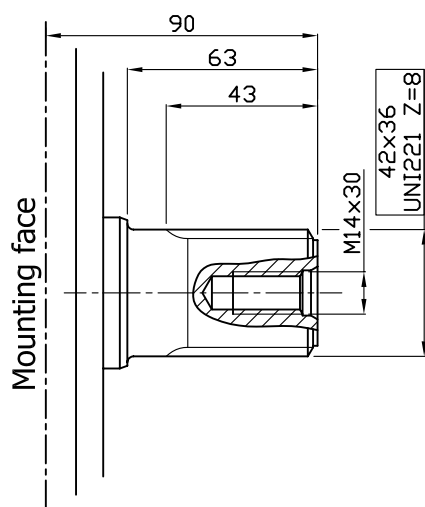
STANDARD SERIES



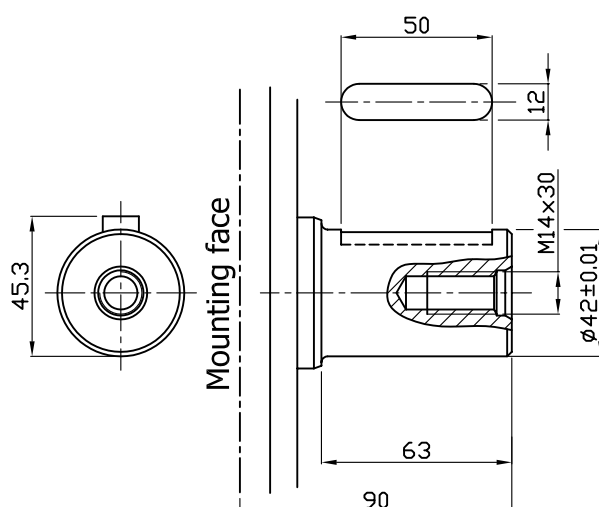
## SHAFT

IAM H3 400-450-500-600-650-700

A0: Standard Splined Shaft

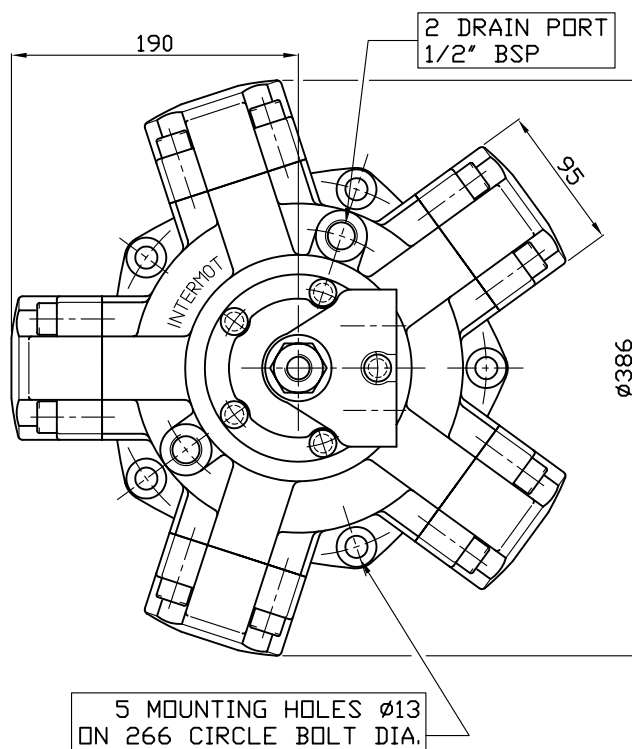
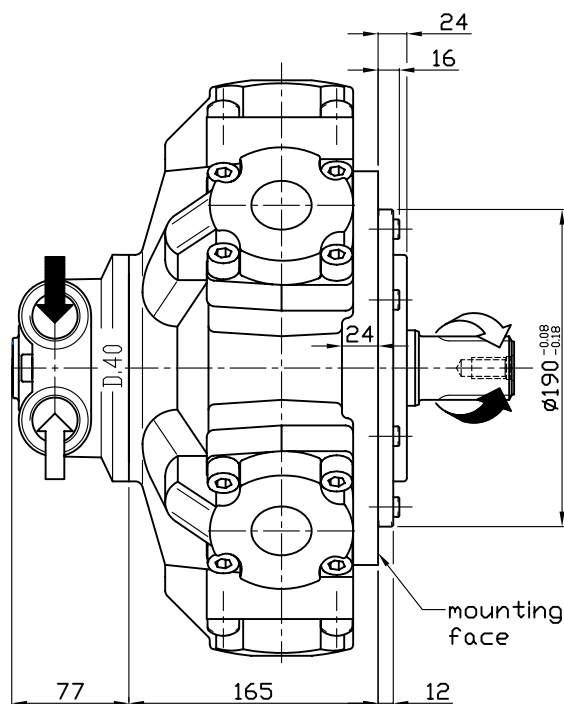


A2: Parallel shaft on request



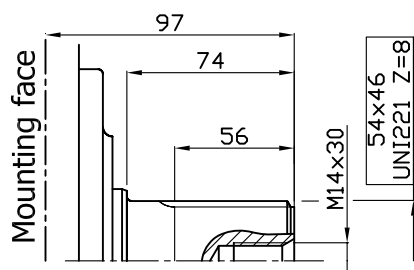
IAM H3 450/C

SPECIAL SERIES

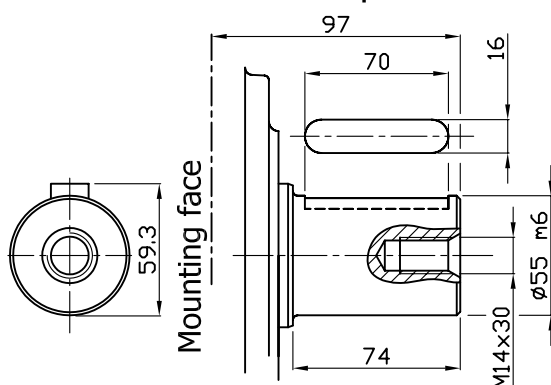


## SHAFT

A1: Standard Splined Shaft

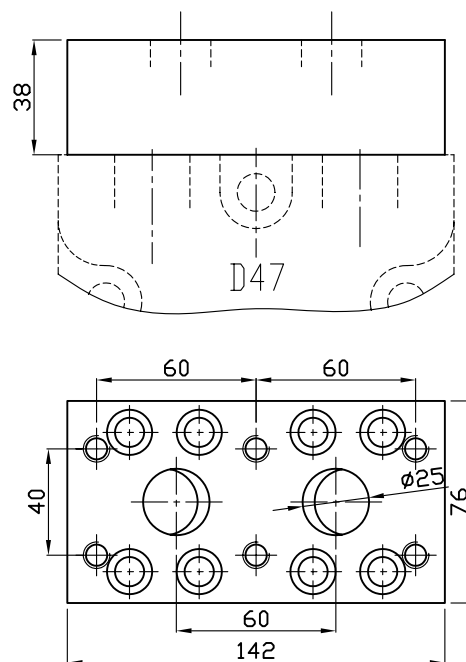


A2: Parallel shaft on request



## OPTION

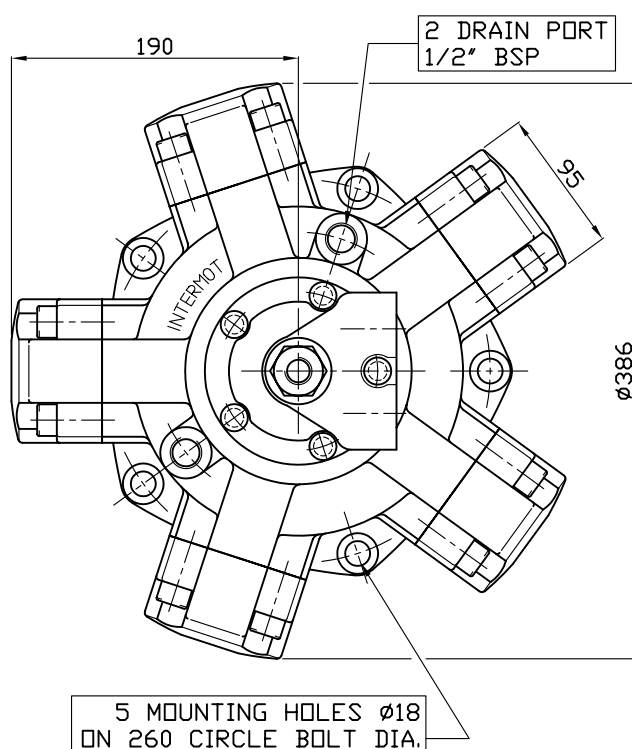
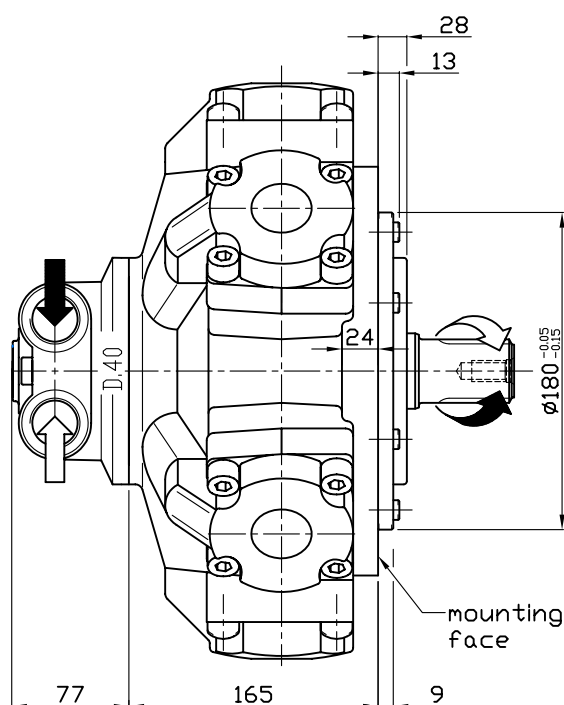
Connection block, fitting D47 distributor, for motor MR 350/450/500/600/700/800



# SIZE

IAM H3 450/B30

SPECIAL SERIES



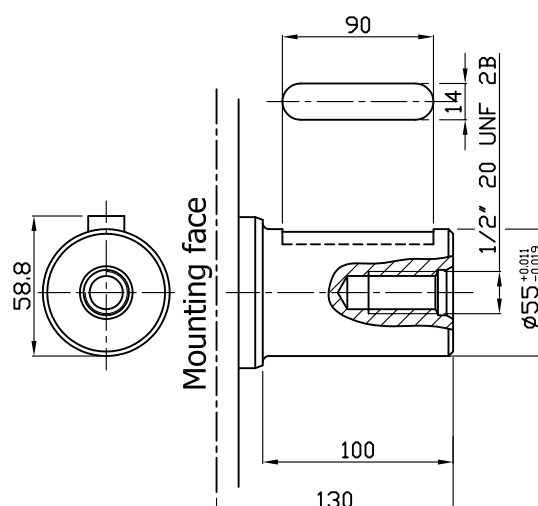
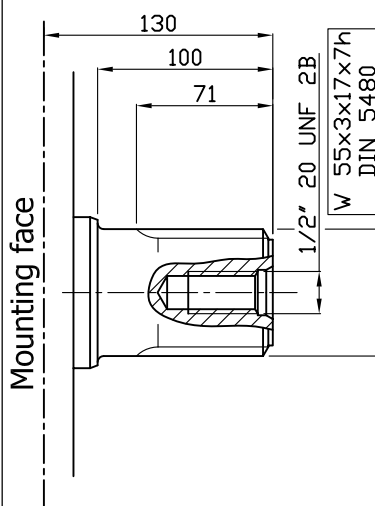
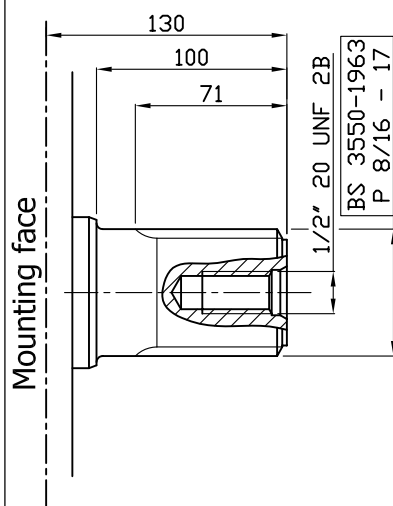
# SHAFT

IAM H3 450/B30

A0: Standard Splined Shaft

A1: Splined shaft on request

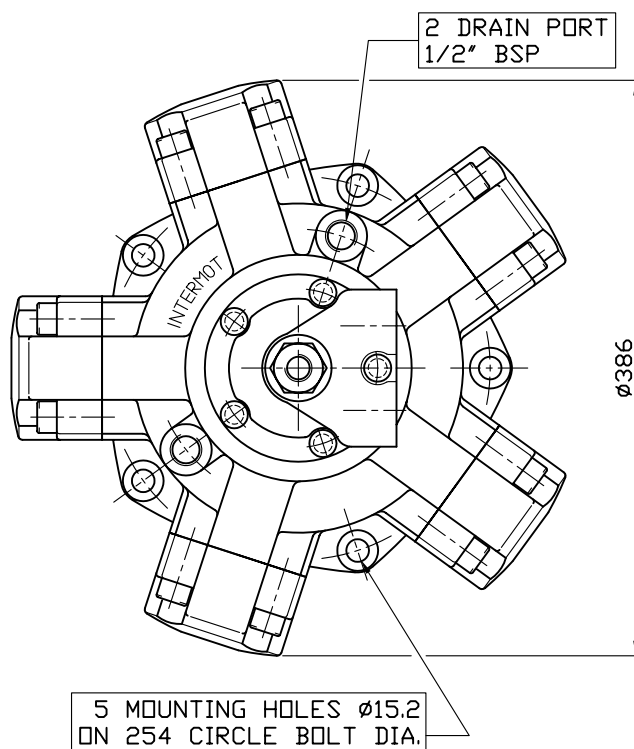
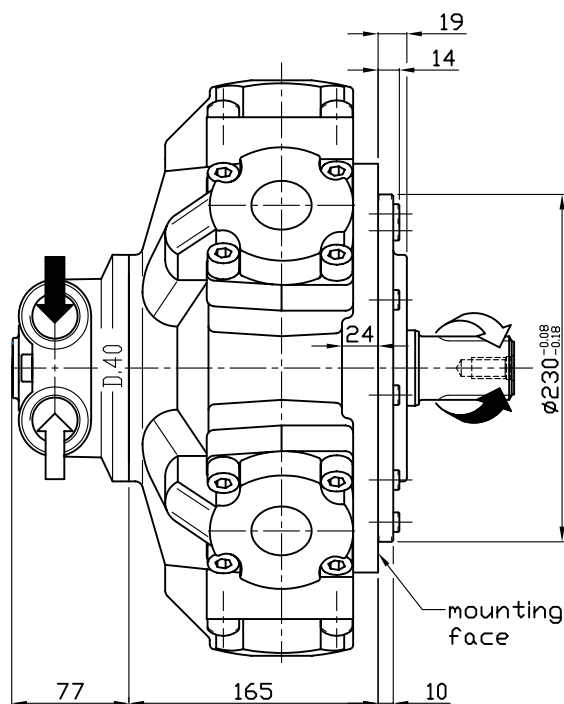
A2: Parallel shaft on request



# SIZE

IAM H3 800

SPECIAL SERIES



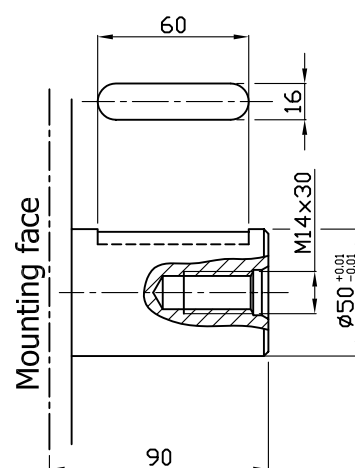
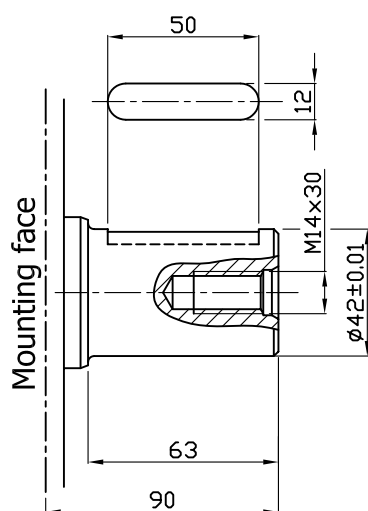
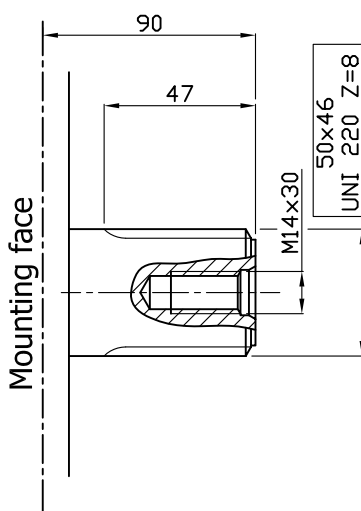
# SHAFT

IAM H3 800

A0: Standard Splined Shaft

A2: Parallel shaft on request

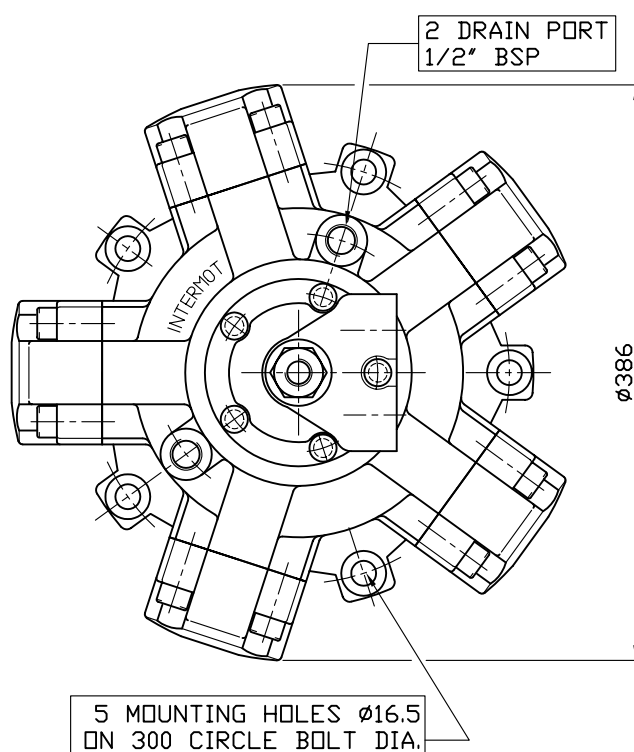
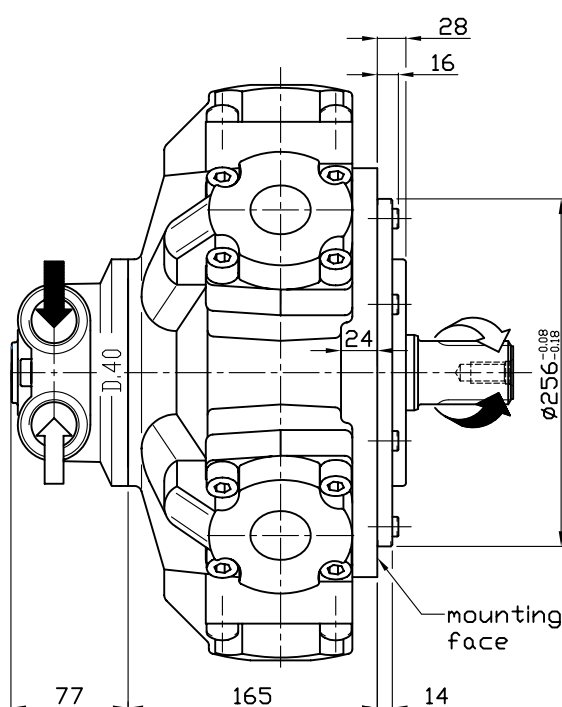
A22: Parallel shaft on request



# SIZE

IAM H3 800/N

SPECIAL SERIES



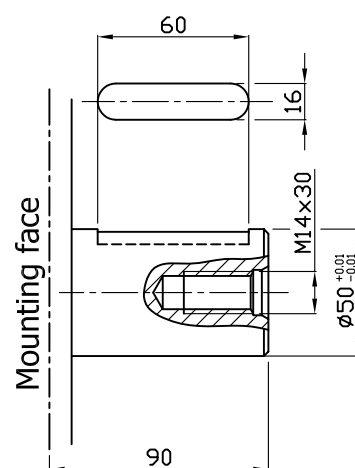
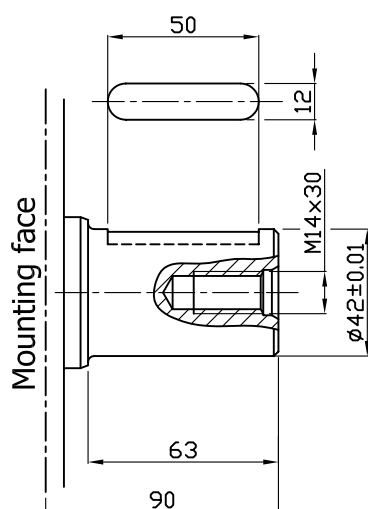
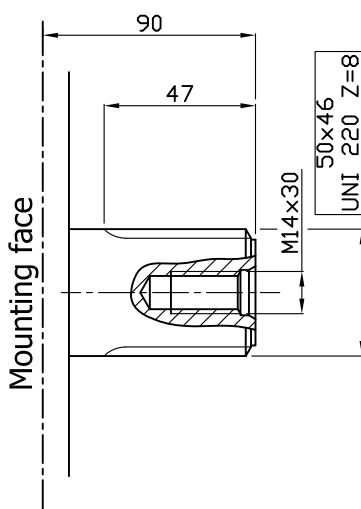
# SHAFT

IAM H3 800/N

A0: Standard Splined Shaft

A2: Parallel shaft on request

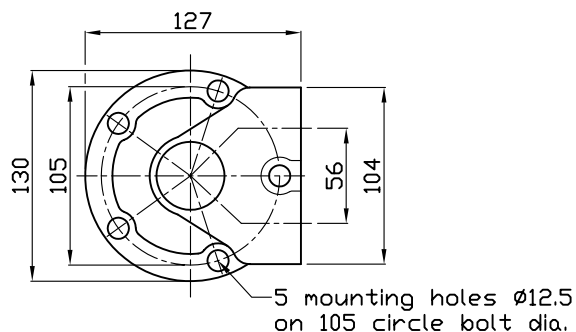
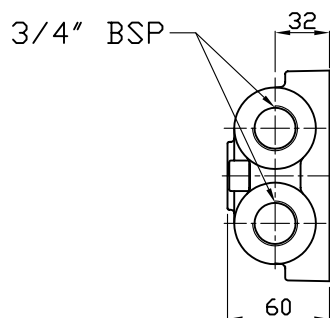
A22: Parallel shaft on request



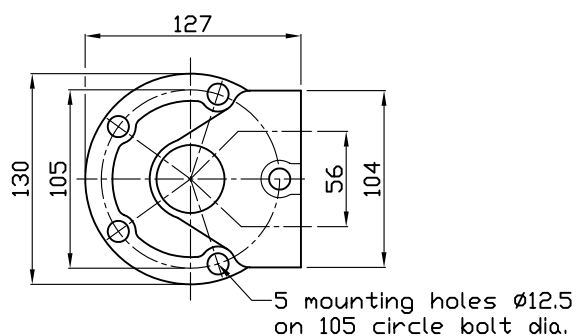
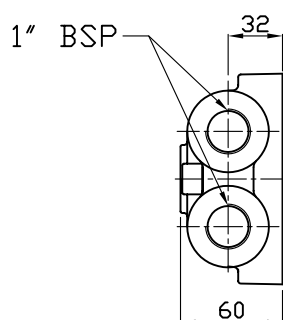
# DISTRIBUTOR

## BSP CONFIGURATION

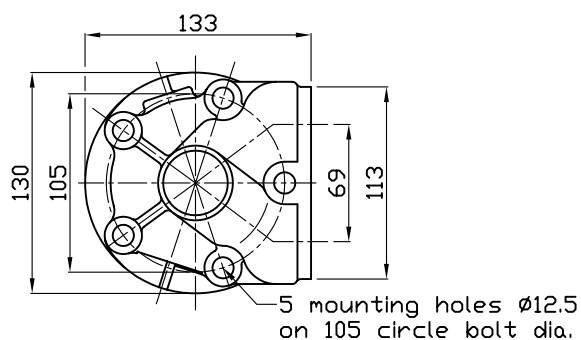
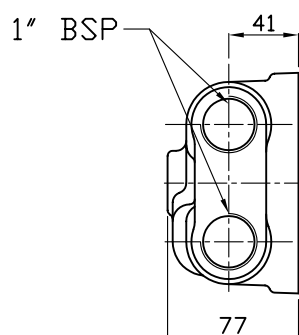
**D31**



**D310**

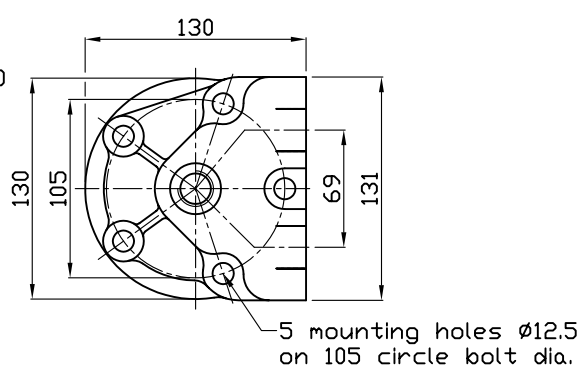
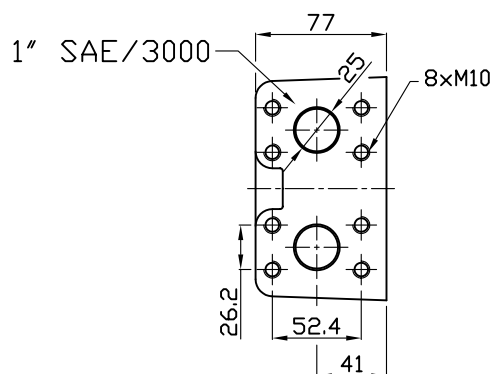


**D40**



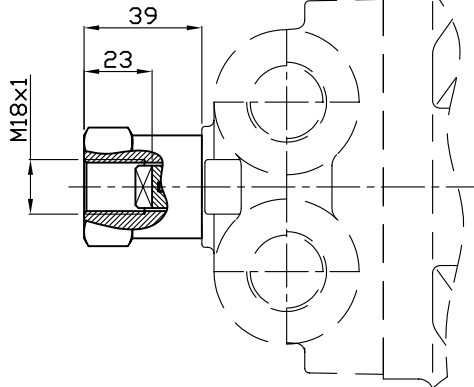
## SAE CONFIGURATION

**D47**

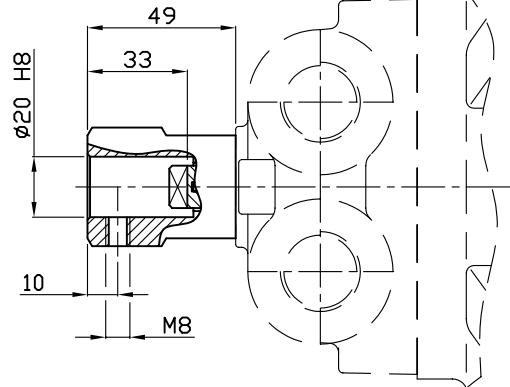


## TACHOMETER

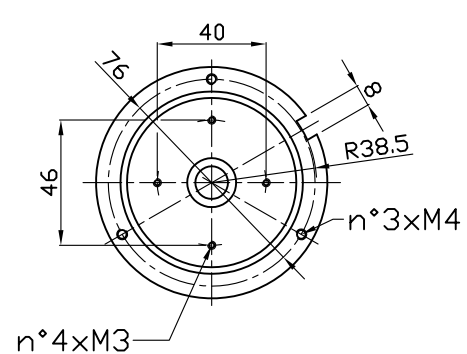
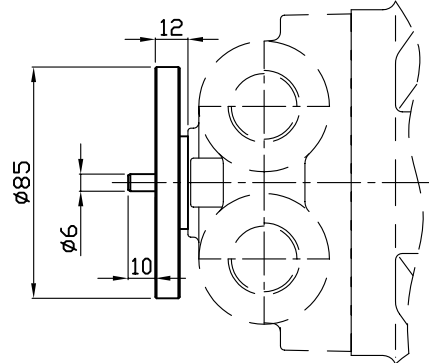
TA



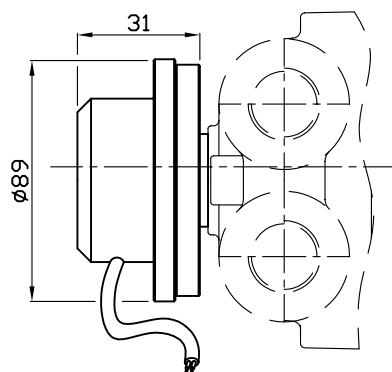
TB



EST



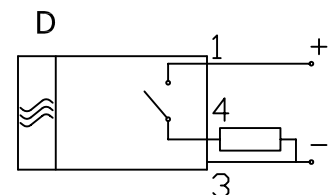
EST.30



| Operating parameters   | E-....../3 |
|------------------------|------------|
| Power supply (VDC)     | 10-30      |
| Switching current (mA) | 150        |
| Frequency (Hz) 100rpm  | 50         |
| Impulse/rpm            | 30         |
| Operating temp. (°C)   | -24/+70    |
| Protection degree      | IP67       |
| Output                 | NPN        |
| Motor type             | All types  |

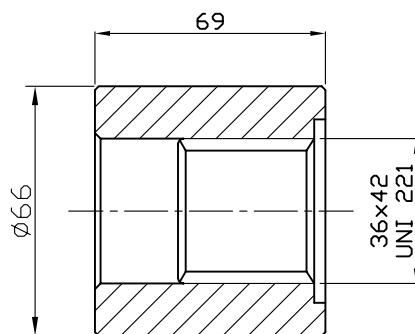
|        |      |
|--------|------|
| MODEL  | Ø5   |
| Torque | 1 Nm |

| Model             | Output | Fig. |
|-------------------|--------|------|
| E-....../.AP/.... | PNP    | D    |



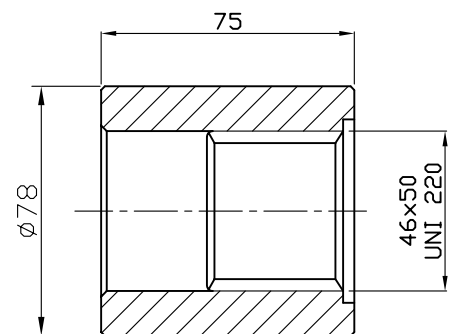
## SPLINE BILLET

SB3



only for:  
IAM 400,450,500,600,650,700 H3

SB4



only for:  
IAM 800 H3

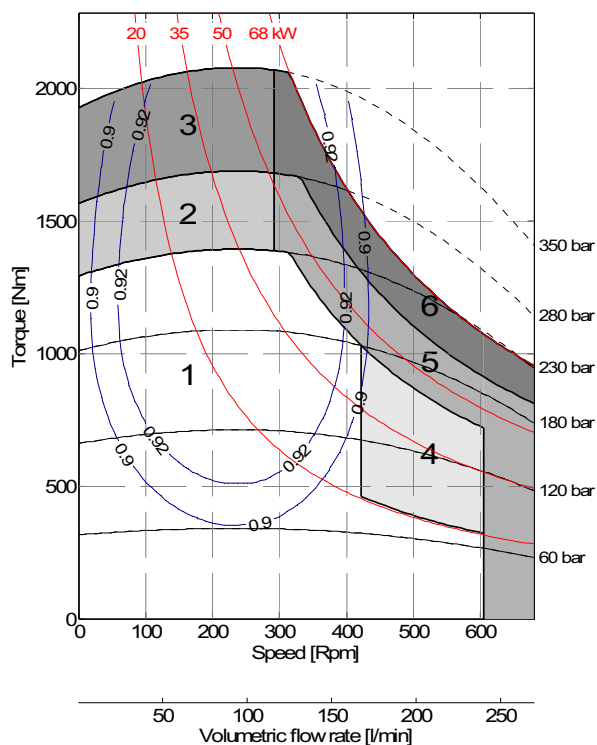
# ORDERING INSTRUCTIONS *H3*

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |            |              |           |            |              |              |             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------|-----------|------------|--------------|--------------|-------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>IAM</b> | <b>- - -</b> | <b>H3</b> | <b>A -</b> | <b>D - -</b> | <b>- - -</b> | <b>SB -</b> |
| Motor model                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ↑          |              |           |            |              |              |             |
| IAM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |            | ↑            |           |            |              |              |             |
| Displacement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |            |              | ↑         |            |              |              |             |
| Housing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |            |              |           | ↑          |              |              |             |
| Shaft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |            |              |           |            | ↑            |              |             |
| <div style="display: flex; flex-direction: column; align-items: flex-start;"> <div style="border: 1px solid black; border-radius: 5px; padding: 2px 5px; margin-bottom: 2px;">A0</div> <div>standard splined shaft</div> <div style="border: 1px solid black; border-radius: 5px; padding: 2px 5px; margin-bottom: 2px;">A1</div> <div>splined shaft</div> <div style="border: 1px solid black; border-radius: 5px; padding: 2px 5px; margin-bottom: 2px;">A2</div> <div>parallel keyed shaft</div> <div style="border: 1px solid black; border-radius: 5px; padding: 2px 5px; margin-bottom: 2px;">A22</div> <div>parallel keyed shaft</div> <div style="border: 1px solid black; border-radius: 5px; padding: 2px 5px; margin-bottom: 2px;">A..</div> <div>other shaft</div> </div> |            |              |           |            |              |              |             |
| Distributor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |            |              |           |            |              |              |             |
| <div style="display: flex; flex-direction: column; align-items: flex-start;"> <div style="border: 1px solid black; border-radius: 5px; padding: 2px 5px; margin-bottom: 2px;">D31</div> <div>(3/4" BSP)</div> <div style="border: 1px solid black; border-radius: 5px; padding: 2px 5px; margin-bottom: 2px;">D310</div> <div>(1" BSP)</div> <div style="border: 1px solid black; border-radius: 5px; padding: 2px 5px; margin-bottom: 2px;">D40</div> <div>(1" BSP)</div> <div style="border: 1px solid black; border-radius: 5px; padding: 2px 5px; margin-bottom: 2px;">D47</div> <div>SAE CONFIGURATIONS</div> </div> <div style="margin-left: 100px;">BSP THREAD CONFIGURATIONS</div>                                                                                            |            |              |           |            |              |              |             |
| Tachometer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |              |           |            |              |              |             |
| <div style="display: flex; flex-direction: column; align-items: flex-start;"> <div style="border: 1px solid black; border-radius: 5px; padding: 2px 5px; margin-bottom: 2px;">TA</div> <div style="border: 1px solid black; border-radius: 5px; padding: 2px 5px; margin-bottom: 2px;">TB</div> <div style="border: 1px solid black; border-radius: 5px; padding: 2px 5px; margin-bottom: 2px;">EST</div> <div style="border: 1px solid black; border-radius: 5px; padding: 2px 5px; margin-bottom: 2px;">EST.30</div> <div style="border: 1px solid black; border-radius: 5px; padding: 2px 5px; margin-bottom: 2px;">J</div> <div>TACHOMETER PREDISPOSITION</div> </div>                                                                                                            |            |              |           |            |              |              |             |
| Spline billet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |            |              |           |            |              |              |             |
| <div style="display: flex; flex-direction: column; align-items: flex-start;"> <div style="border: 1px solid black; border-radius: 5px; padding: 2px 5px; margin-bottom: 2px;">SB3</div> <div>36x42 UNI 221</div> <div style="border: 1px solid black; border-radius: 5px; padding: 2px 5px; margin-bottom: 2px;">SB4</div> <div>46x50 UNI 220</div> </div>                                                                                                                                                                                                                                                                                                                                                                                                                            |            |              |           |            |              |              |             |

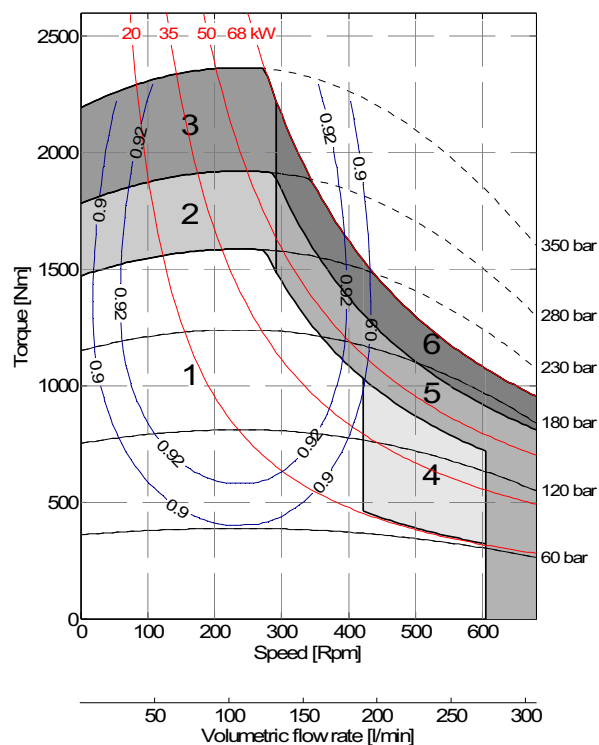
**EXAMPLE:** IAM.400.H3.A1.D40  
IAM.500.H3.A0.D31.TA.SB3  
IAM.450/C.H3.A1.D40.J

## PERFORMANCES

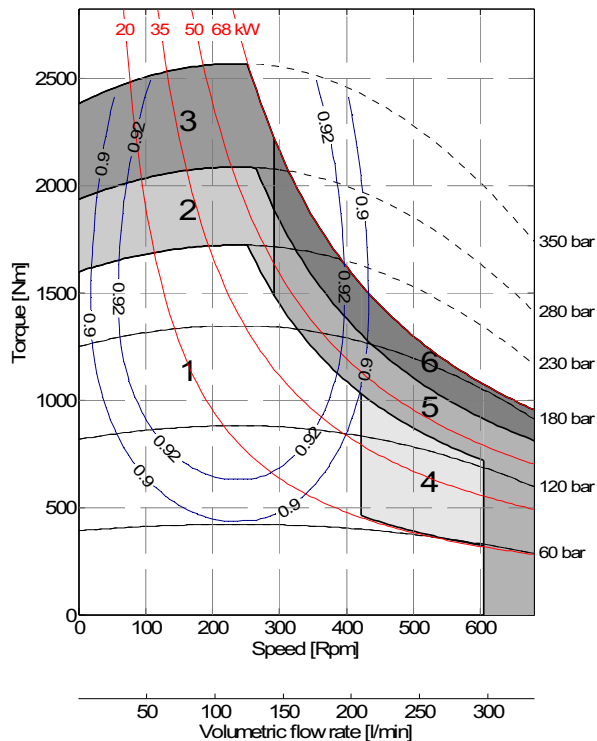
IAM 400 H3



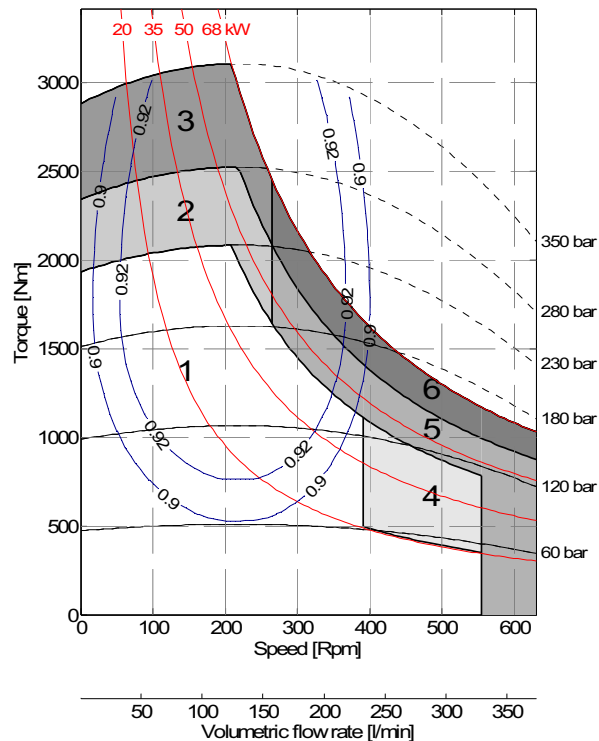
IAM 450 H3



IAM 500 H3



IAM 600 H3

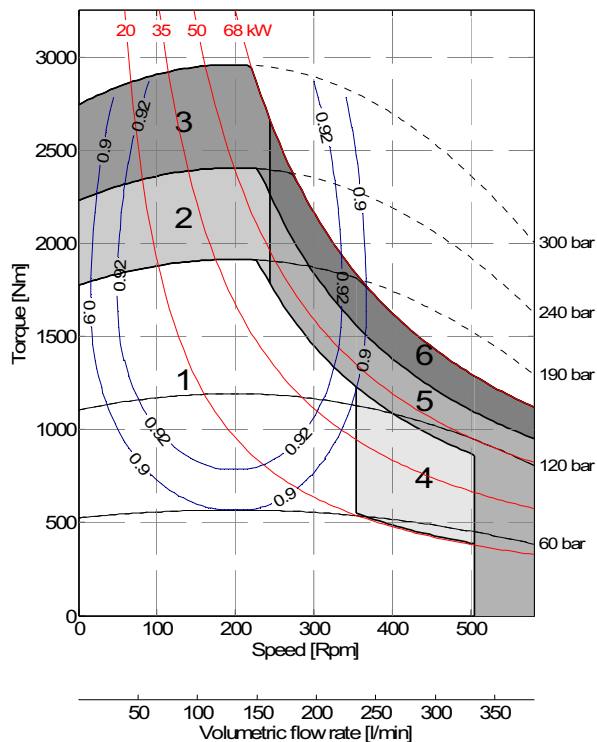


|   |                                                                                |
|---|--------------------------------------------------------------------------------|
| 1 | Continuous operation                                                           |
| 2 | Intermittent operation for period 3-5 minute every 10-15 minute                |
| 3 | Intermittent operation for very short period (3-5 seconds every 10-15 minutes) |

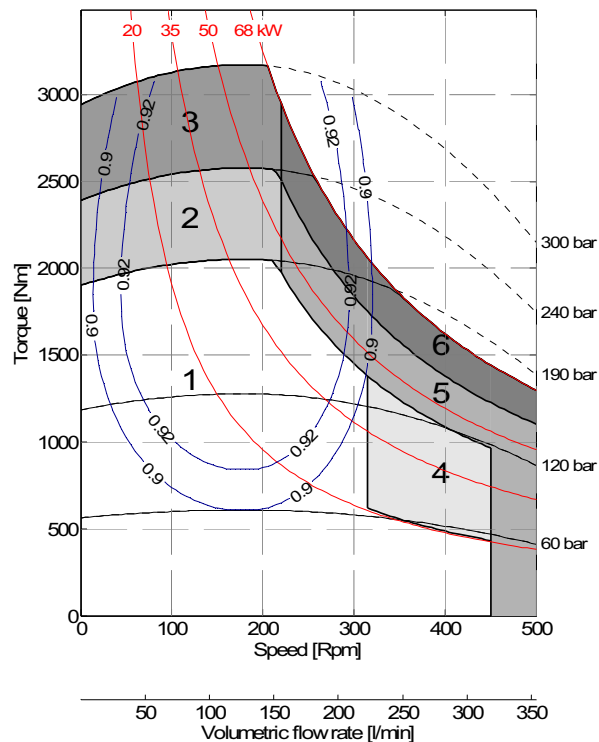
|   |                                                                                              |
|---|----------------------------------------------------------------------------------------------|
| 4 | Continuous operation with flushing                                                           |
| 5 | Intermittent operation for period 3-5 minute every 10-15 minute with flushing                |
| 6 | Intermittent operation for very short period (3-5 seconds every 10-15 minutes) with flushing |

The specified data are for product description purpose only and must not be interpreted as warranted characteristic in legal sense  
For more details please contact our Technical Department.

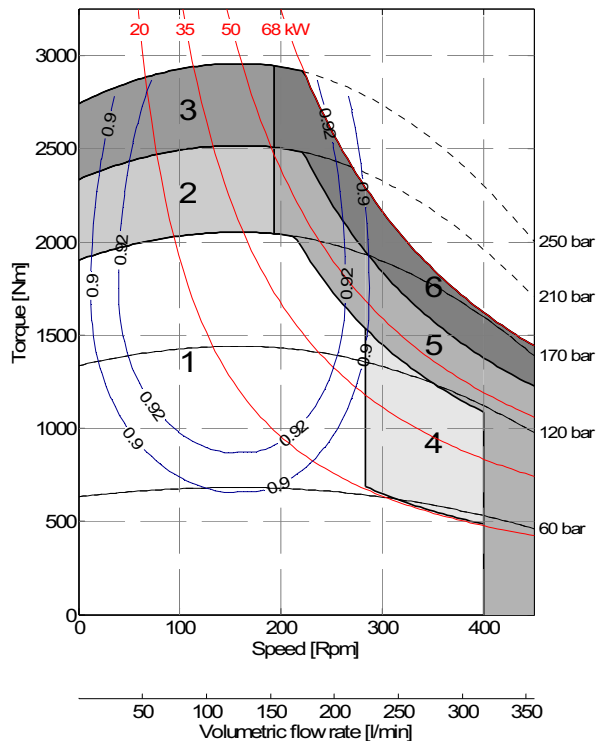
IAM 650 H3



IAM 700 H3



IAM 800 H3



|   |                                                                                |
|---|--------------------------------------------------------------------------------|
| 1 | Continuous operation                                                           |
| 2 | Intermittent operation for period 3-5 minute every 10-15 minute                |
| 3 | Intermittent operation for very short period (3-5 seconds every 10-15 minutes) |

|   |                                                                                              |
|---|----------------------------------------------------------------------------------------------|
| 4 | Continuous operation with flushing                                                           |
| 5 | Intermittent operation for period 3-5 minute every 10-15 minute with flushing                |
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The specified data are for product description purpose only and must not be interpreted as warranted characteristic in legal sense  
For more details please contact our Technical Department.