

GENERAL CATALOGUE



***HIGH  
PRESSURE  
PUMPS  
H SERIES***



 **HPP**  
HIGH PRESSURE PUMPS







# TECHNICAL DETAILS



GENERAL NOTE: All specifications are not binding.  
The Company reserves the right to change technical and aesthetics specifications without notice.



# H SERIES

## *New series of high pressure pumps*

HPP is a Comet SpA brand specialized in the design and construction of plunger pumps for water, made even better thanks to its technological expertise and further boosted by modern day technologies. This means the company is able to offer a wide range of products to meet requirements that go from 50 to 550 kW with pressures up to 2800 bar.



HPP pumps are manufactured using the most modern technologies both as regards to the materials used machining and mechanical operations and heat treatments. Comet is also able to provide a wide range of accessories, suitable for the specific needs of the single user. Professionalism and research make it a dynamic modern company intent on tackling and resolving the problems of a fast-evolving market.

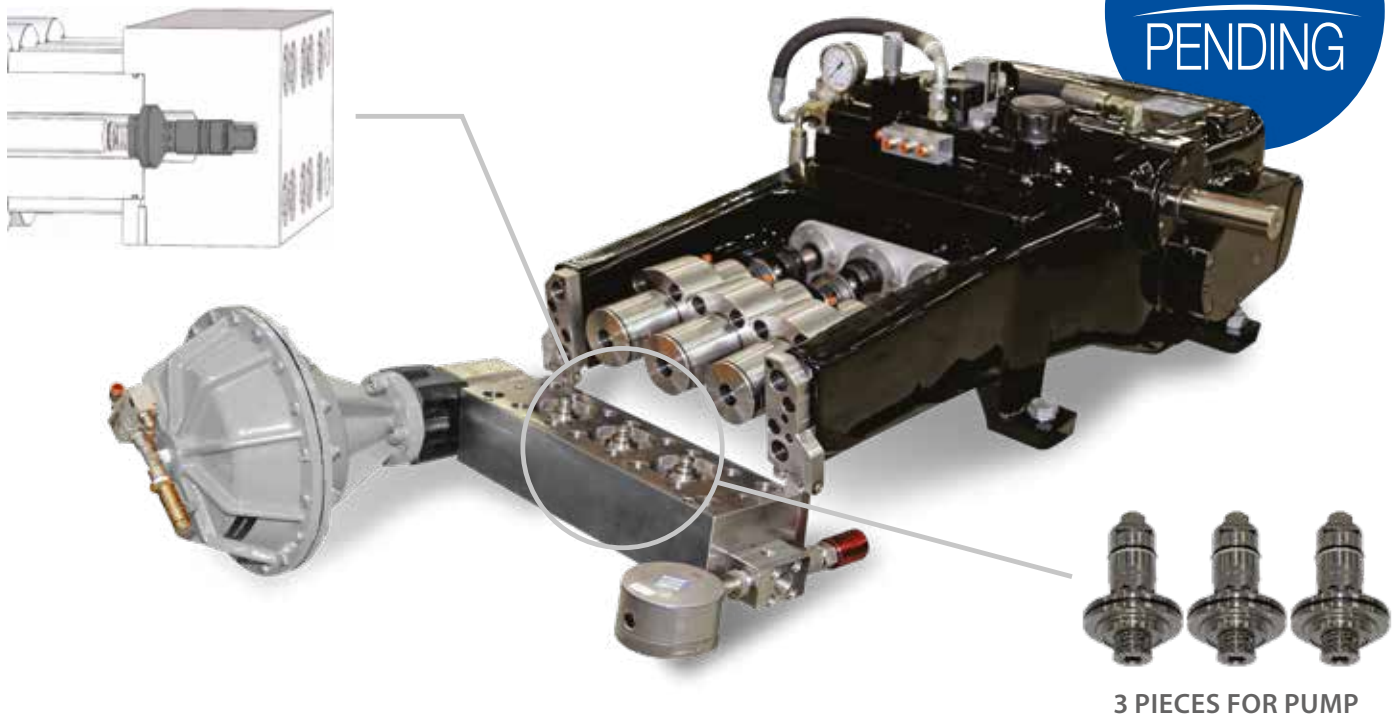


# INTELLICORE

## IV GENERATION HEADS WITH INTELLIVALVE TECHNOLOGY

- New IV generation heads for SAP & UAP pumps
- System equipped with single-block valve mechanism
- Fewer components (-88%) than previous generation
- Less time (-83%) for maintenance operations
- Increased components lifetime
- Possibility to upgrade also for previous generation heads

### INTELLIVALVE TECHNOLOGY



### BENEFITS



Fewer pieces



Maximum pressure  
40.000 psi  
(2800 bar)



Longer useful life  
of components



Flow rate up  
to 38 USgpm  
(145 l/min)



Easy to  
assemble




Independent  
operation




Quick and easy  
maintenance in  
15 minutes

# PERFORMANCES

## LEGEND

 With tungsten carbide plunger

 With forced lubrication

 Heat exchanger





























 **V** Vertical assembling

 **H** Horizontal assembling



## SAP SERIES UP TO 1500 BAR

 H-100 SAP   

|  IV GENERATION |  IV GENERATION |  | Motor Engine |  Crankshaft |  |  |  |  | Code          | Code          | Ø mm | rpm  | gear ratio | rpm | l/min | USgpm | bar  | psi   | MPa | HP    | kW   | kg  | lb  |
|---|---|---|--------------|--|---|---|---|---|---------------|---------------|------|------|------------|-----|-------|-------|------|-------|-----|-------|------|-----|-----|
|                |                |   |              |  |   |   |   |   | P231152V14180 | P231152H14180 | 18   | 1500 | 2,9        | 517 | 31,6  | 8,3   | 1400 | 20300 | 140 | 111,3 | 81,9 | 400 | 882 |
|   |   |   |              |  |   |   |   |   | P231162V14180 | P231162H14180 |      | 1800 | 3,6        | 502 | 30,6  | 8,1   | 1400 | 20300 | 140 | 107,9 | 79,4 | 400 | 882 |
|                |                |   |              |  |   |   |   |   | P231152V14200 | P231152H14200 | 20   | 1500 | 2,9        | 517 | 39,0  | 10,3  | 1000 | 14500 | 100 | 98,1  | 72,2 | 400 | 882 |
|   |   |   |              |  |   |   |   |   | P231162V14200 | P231162H14200 |      | 1800 | 3,6        | 502 | 37,8  | 10,0  | 1000 | 14500 | 100 | 95,2  | 70,0 | 400 | 882 |
|                |                |   |              |  |   |   |   |   | P231152V14220 | P231152H14220 | 22   | 1500 | 2,9        | 517 | 47,2  | 12,5  | 900  | 13050 | 90  | 106,9 | 78,6 | 400 | 882 |
|   |   |   |              |  |   |   |   |   | P231162V14220 | P231162H14220 |      | 1800 | 3,6        | 502 | 45,7  | 12,1  | 900  | 13050 | 90  | 103,6 | 76,2 | 400 | 882 |
|                |                |   |              |  |   |   |   |   | P231152V14240 | P231152H14240 | 24   | 1500 | 2,9        | 517 | 56,1  | 14,8  | 750  | 10875 | 75  | 106,0 | 78,0 | 400 | 882 |
|   |   |   |              |  |   |   |   |   | P231162V14240 | P231162H14240 |      | 1800 | 3,6        | 502 | 54,4  | 14,4  | 750  | 10875 | 75  | 102,8 | 75,6 | 400 | 882 |
|                |                |   |              |  |   |   |   |   | P231152V14260 | P231152H14260 | 26   | 1500 | 2,9        | 517 | 65,9  | 17,4  | 650  | 9425  | 65  | 107,8 | 79,3 | 400 | 882 |
|   |   |   |              |  |   |   |   |   | P231162V14260 | P231162H14260 |      | 1800 | 3,6        | 502 | 63,9  | 16,9  | 650  | 9425  | 65  | 104,5 | 76,9 | 400 | 882 |
|                |                |   |              |  |   |   |   |   | P231152V14280 | P231152H14280 | 28   | 1500 | 2,9        | 517 | 76,4  | 20,2  | 600  | 8700  | 60  | 115,4 | 84,9 | 400 | 882 |
|   |   |   |              |  |   |   |   |   | P231162V14280 | P231162H14280 |      | 1800 | 3,6        | 502 | 74,1  | 19,6  | 600  | 8700  | 60  | 111,9 | 82,3 | 400 | 882 |
|                |                |   |              |  |   |   |   |   | P231152V14300 | P231152H14300 | 30   | 1500 | 2,9        | 517 | 87,7  | 23,2  | 500  | 7250  | 50  | 110,4 | 81,2 | 400 | 882 |
|   |   |   |              |  |   |   |   |   | P231162V14300 | P231162H14300 |      | 1800 | 3,6        | 502 | 85,1  | 22,5  | 500  | 7250  | 50  | 107,1 | 78,8 | 400 | 882 |
|                |                |   |              |  |   |   |   |   | P231152V14320 | P231152H14320 | 32   | 1500 | 2,9        | 517 | 99,8  | 26,4  | 420  | 6090  | 42  | 105,5 | 77,6 | 400 | 882 |
|   |   |   |              |  |   |   |   |   | P231162V14320 | P231162H14320 |      | 1800 | 3,6        | 502 | 96,8  | 25,6  | 420  | 6090  | 42  | 102,3 | 75,3 | 400 | 882 |
|                |                |   |              |  |   |   |   |   | P231152V14350 | P231152H14350 | 35   | 1500 | 2,9        | 517 | 119,4 | 31,5  | 330  | 4785  | 33  | 99,2  | 73,0 | 400 | 882 |
|   |   |   |              |  |   |   |   |   | P231162V14350 | P231162H14350 |      | 1800 | 3,6        | 502 | 115,8 | 30,6  | 330  | 4785  | 33  | 96,2  | 70,7 | 400 | 882 |
|                |                |   |              |  |   |   |   |   | P231152V14400 | P231152H14400 | 40   | 1500 | 2,9        | 517 | 155,9 | 41,2  | 270  | 3915  | 27  | 106,0 | 78,0 | 400 | 882 |
|   |   |   |              |  |   |   |   |   | P231162V14400 | P231162H14400 |      | 1800 | 3,6        | 502 | 151,2 | 39,9  | 270  | 3915  | 27  | 102,8 | 75,6 | 400 | 882 |

Performances refer to theoretical delivery with 100% volumetric efficiency. For continuous or heavy-duty use, contact our technical department.

**H-150 SAP**

| IV GENERATION | IV GENERATION |      | Motor Engine |            | Crankshaft |       |       |      |       |     |       |       |     |     |
|---------------|---------------|------|--------------|------------|------------|-------|-------|------|-------|-----|-------|-------|-----|-----|
| Code          | Code          | Ø mm | rpm          | gear ratio | rpm        | l/min | USgpm | bar  | psi   | MPa | HP    | kW    | kg  | lb  |
| P231552V14220 | P231552H14220 | 22   | 1500         | 2,9        | 517        | 47,2  | 12,5  | 1400 | 20300 | 140 | 166,3 | 122,3 | 400 | 882 |
| P231562V14220 | P231562H14220 |      | 1800         | 3,6        | 502        | 45,7  | 12,1  | 1400 | 20300 | 140 | 161,2 | 118,6 | 400 | 882 |
| P231552V14240 | P231552H14240 | 24   | 1500         | 2,9        | 517        | 56,1  | 14,8  | 1200 | 17400 | 120 | 169,6 | 124,7 | 400 | 882 |
| P231562V14240 | P231562H14240 |      | 1800         | 3,6        | 502        | 54,4  | 14,4  | 1200 | 17400 | 120 | 164,5 | 121,0 | 400 | 882 |
| P231552V14260 | P231552H14260 | 26   | 1500         | 2,9        | 517        | 65,9  | 17,4  | 1000 | 14500 | 100 | 165,9 | 122,0 | 400 | 882 |
| P231562V14260 | P231562H14260 |      | 1800         | 3,6        | 502        | 63,9  | 16,9  | 1000 | 14500 | 100 | 160,8 | 118,3 | 400 | 882 |
| P231552V14280 | P231552H14280 | 28   | 1500         | 2,9        | 517        | 76,4  | 20,2  | 830  | 12035 | 83  | 159,7 | 117,4 | 400 | 882 |
| P231562V14280 | P231562H14280 |      | 1800         | 3,6        | 502        | 74,1  | 19,6  | 830  | 12035 | 83  | 154,8 | 113,9 | 400 | 882 |
| P231552V14300 | P231552H14300 | 30   | 1500         | 2,9        | 517        | 87,7  | 23,2  | 750  | 10875 | 75  | 165,6 | 121,8 | 400 | 882 |
| P231562V14300 | P231562H14300 |      | 1800         | 3,6        | 502        | 85,1  | 22,5  | 750  | 10875 | 75  | 160,6 | 118,1 | 400 | 882 |
| P231552V14320 | P231552H14320 | 32   | 1500         | 2,9        | 517        | 99,8  | 26,4  | 640  | 9280  | 64  | 160,8 | 118,3 | 400 | 882 |
| P231562V14320 | P231562H14320 |      | 1800         | 3,6        | 502        | 96,8  | 25,6  | 640  | 9280  | 64  | 155,9 | 114,7 | 400 | 882 |
| P231552V14350 | P231552H14350 | 35   | 1500         | 2,9        | 517        | 119,4 | 31,5  | 560  | 8120  | 56  | 168,3 | 123,8 | 400 | 882 |
| P231562V14350 | P231562H14350 |      | 1800         | 3,6        | 502        | 115,8 | 30,6  | 560  | 8120  | 56  | 163,2 | 120,1 | 400 | 882 |
| P231552V14400 | P231552H14400 | 40   | 1500         | 2,9        | 517        | 155,9 | 41,2  | 400  | 5800  | 40  | 157,0 | 115,5 | 400 | 882 |
| P231562V14400 | P231562H14400 |      | 1800         | 3,6        | 502        | 151,2 | 39,9  | 400  | 5800  | 40  | 152,3 | 112,0 | 400 | 882 |

Performances refer to theoretical delivery with 100% volumetric efficiency. For continuous or heavy-duty use, contact our technical department.








**H-200 SAP**

| IV GENERATION | IV GENERATION |      | Motor Engine |            | Crankshaft |       |       |      |       |     |       |       |     |      |
|---------------|---------------|------|--------------|------------|------------|-------|-------|------|-------|-----|-------|-------|-----|------|
| Code          | Code          | Ø mm | rpm          | gear ratio | rpm        | l/min | USgpm | bar  | psi   | MPa | HP    | kW    | kg  | lb   |
| P232052V14220 | P232052H14220 | 22   | 1500         | 3,14       | 478        | 54,5  | 14,4  | 1470 | 21315 | 147 | 201,8 | 148,4 | 500 | 1103 |
| P232062V14220 | P232062H14220 |      | 1800         | 3,79       | 475        | 54,1  | 14,3  | 1470 | 21315 | 147 | 200,4 | 147,4 | 500 | 1103 |
| P232052V14240 | P232052H14240 | 24   | 1500         | 3,14       | 478        | 64,9  | 17,1  | 1300 | 18850 | 130 | 212,4 | 156,2 | 500 | 1103 |
| P232062V14240 | P232062H14240 |      | 1800         | 3,79       | 475        | 64,4  | 17,0  | 1300 | 18850 | 130 | 210,9 | 155,1 | 500 | 1103 |
| P232052V14260 | P232052H14260 | 26   | 1500         | 3,14       | 478        | 76,1  | 20,1  | 1200 | 17400 | 120 | 230,1 | 169,2 | 500 | 1103 |
| P232062V14260 | P232062H14260 |      | 1800         | 3,79       | 475        | 75,6  | 20,0  | 1200 | 17400 | 120 | 228,5 | 168,0 | 500 | 1103 |
| P232052V14280 | P232052H14280 | 28   | 1500         | 3,14       | 478        | 88,3  | 23,3  | 1000 | 14500 | 100 | 222,3 | 163,5 | 500 | 1103 |
| P232062V14280 | P232062H14280 |      | 1800         | 3,79       | 475        | 87,7  | 23,2  | 1000 | 14500 | 100 | 220,8 | 162,4 | 500 | 1103 |
| P232052V14300 | P232052H14300 | 30   | 1500         | 3,14       | 478        | 101,4 | 26,8  | 800  | 11600 | 80  | 204,2 | 150,2 | 500 | 1103 |
| P232062V14300 | P232062H14300 |      | 1800         | 3,79       | 475        | 100,7 | 26,6  | 800  | 11600 | 80  | 202,8 | 149,2 | 500 | 1103 |
| P232052V14320 | P232052H14320 | 32   | 1500         | 3,14       | 478        | 115,3 | 30,5  | 700  | 10150 | 70  | 203,3 | 149,5 | 500 | 1103 |
| P232062V14320 | P232062H14320 |      | 1800         | 3,79       | 475        | 114,5 | 30,3  | 700  | 10150 | 70  | 201,9 | 148,5 | 500 | 1103 |
| P232052V14350 | P232052H14350 | 35   | 1500         | 3,14       | 478        | 138,0 | 36,5  | 600  | 8700  | 60  | 208,5 | 153,3 | 500 | 1103 |
| P232062V14350 | P232062H14350 |      | 1800         | 3,79       | 475        | 137,0 | 36,2  | 600  | 8700  | 60  | 207,0 | 152,3 | 500 | 1103 |
| P232052V14400 | P232052H14400 | 40   | 1500         | 3,14       | 478        | 180,2 | 47,6  | 450  | 6525  | 45  | 204,2 | 150,2 | 500 | 1103 |
| P232062V14400 | P232062H14400 |      | 1800         | 3,79       | 475        | 179,0 | 47,3  | 450  | 6525  | 45  | 202,8 | 149,2 | 500 | 1103 |

Performances refer to theoretical delivery with 100% volumetric efficiency. For continuous or heavy-duty use, contact our technical department.










**H-300 SAP**

|  IV GENERATION |  IV GENERATION |  Motor Engine |  Crankshaft |  |  |  |       |      |       |     |       |       |     |      |
|---|---|--|--|---|---|---|-------|------|-------|-----|-------|-------|-----|------|
| Code  | Code  | Ø mm   | rpm  | gear ratio  | rpm   | l/min   | USgpm | bar  | psi   | MPa | HP    | kW    | kg  | lb   |
| P233152V14300   | P233152H14300   | 30   | 1500   | 3,13  | 480   | 99,7  | 26,3  | 1400 | 20300 | 140 | 351,4 | 258,5 | 700 | 1544 |
| P233162V14300   | P233162H14300   |  | 1800   | 3,67  | 491   | 102,0   | 26,9  | 1400 | 20300 | 140 | 359,5 | 264,4 | 700 | 1544 |
| P233152V14320   | P233152H14320   | 32   | 1500   | 3,13  | 480   | 113,4   | 30,0  | 1200 | 17400 | 120 | 342,7 | 252,1 | 700 | 1544 |
| P233162V14320   | P233162H14320   |  | 1800   | 3,67  | 491   | 116,0   | 30,7  | 1200 | 17400 | 120 | 350,6 | 257,9 | 700 | 1544 |
| P233152V14350   | P233152H14350   | 35   | 1500   | 3,13  | 480   | 135,7   | 35,8  | 1000 | 14500 | 100 | 341,7 | 251,3 | 700 | 1544 |
| P233162V14350   | P233162H14350   |  | 1800   | 3,67  | 491   | 138,8   | 36,7  | 1000 | 14500 | 100 | 349,5 | 257,1 | 700 | 1544 |
| P233152V14400   | P233152H14400   | 40   | 1500   | 3,13  | 480   | 177,2   | 46,8  | 750  | 10875 | 75  | 334,7 | 246,2 | 700 | 1544 |
| P233162V14400   | P233162H14400   |  | 1800   | 3,67  | 491   | 181,3   | 47,9  | 750  | 10875 | 75  | 342,4 | 251,8 | 700 | 1544 |

Performances refer to theoretical delivery with 100% volumetric efficiency. For continuous or heavy-duty use, contact our technical department.









**H-550 SAP**

|  IV GENERATION |  Motor Engine |  Crankshaft |  |  |  |       |      |       |     |       |       |      |      |
|---|--|--|--|---|---|-------|------|-------|-----|-------|-------|------|------|
| Code  | Ø mm   | rpm  | gear ratio   | rpm   | l/min   | USgpm | bar  | psi   | MPa | HP    | kW    | kg   | lb   |
| P235562H14400   | 40   | 1800   | 4  | 450   | 176,3   | 46,6  | 1250 | 18125 | 125 | 555,0 | 408,2 | 1500 | 3307 |
| P235562H14450   | 45   | 1800   | 4  | 450   | 223,2   | 59,0  | 1000 | 14500 | 100 | 561,9 | 413,3 | 1500 | 3307 |

Performances refer to theoretical delivery with 100% volumetric efficiency. For continuous or heavy-duty use, contact our technical department.

## UAP SERIES UP TO 2800 BAR


**H-100 UAP**

|  IV GENERATION |  IV GENERATION |  Motor Engine |  Crankshaft |  |  |  |       |      |       |     |       |      |     |     |
|---|---|--|--|---|---|---|-------|------|-------|-----|-------|------|-----|-----|
| Code  | Code  | Ø mm   | rpm  | gear ratio  | rpm   | l/min   | USgpm | bar  | psi   | MPa | HP    | kW   | kg  | lb  |
| P231153V14120   | P231153H14120   | 12   | 1500   | 2,9   | 517   | 12,6  | 3,3   | 2800 | 40600 | 280 | 89,0  | 65,5 | 400 | 882 |
| P231163V14120   | P231163H14120   |  | 1800   | 3,6   | 502   | 12,2  | 3,2   | 2800 | 40600 | 280 | 86,3  | 63,5 | 400 | 882 |
| P231153V14140   | P231153H14140   | 14   | 1500   | 2,9   | 517   | 17,2  | 4,5   | 2500 | 36250 | 250 | 108,2 | 79,6 | 400 | 882 |
| P231163V14140   | P231163H14140   |  | 1800   | 3,6   | 502   | 16,7  | 4,4   | 2500 | 36250 | 250 | 104,9 | 77,2 | 400 | 882 |
| P231153V14160   | P231153H14160   | 16   | 1500   | 2,9   | 517   | 22,5  | 5,9   | 2000 | 29000 | 200 | 113,1 | 83,2 | 400 | 882 |
| P231163V14160   | P231163H14160   |  | 1800   | 3,6   | 502   | 21,8  | 5,8   | 2000 | 29000 | 200 | 109,6 | 80,6 | 400 | 882 |
| P231153V14180   | P231153H14180   | 18   | 1500   | 2,9   | 517   | 28,4  | 7,5   | 1400 | 20300 | 140 | 100,2 | 73,7 | 400 | 882 |
| P231163V14180   | P231163H14180   |  | 1800   | 3,6   | 502   | 27,6  | 7,3   | 1400 | 20300 | 140 | 97,1  | 71,4 | 400 | 882 |
| P231153V14200   | P231153H14200   | 20   | 1500   | 2,9   | 517   | 35,1  | 9,3   | 1000 | 14500 | 100 | 88,3  | 65,0 | 400 | 882 |
| P231163V14200   | P231163H14200   |  | 1800   | 3,6   | 502   | 34,0  | 9,0   | 1000 | 14500 | 100 | 85,7  | 63,0 | 400 | 882 |

Performances refer to theoretical delivery with 100% volumetric efficiency. For continuous or heavy-duty use, contact our technical department.

**H-150 UAP**

| IV GENERATION | IV GENERATION |      | Motor Engine |            | Crankshaft |       |       |      |       |     |       |       |     |     |
|---------------|---------------|------|--------------|------------|------------|-------|-------|------|-------|-----|-------|-------|-----|-----|
| Code          | Code          | Ø mm | rpm          | gear ratio | rpm        | l/min | USgpm | bar  | psi   | MPa | HP    | kW    | kg  | lb  |
| P231553V14160 | P231553H14160 | 16   | 1500         | 2,9        | 517        | 22,5  | 5,9   | 2800 | 40600 | 280 | 158,3 | 116,4 | 400 | 882 |
| P231563V14160 | P231563H14160 |      | 1800         | 3,6        | 502        | 21,8  | 5,8   | 2800 | 40600 | 280 | 153,5 | 112,9 | 400 | 882 |
| P231553V14180 | P231553H14180 | 18   | 1500         | 2,9        | 517        | 28,4  | 7,5   | 2200 | 31900 | 220 | 157,4 | 115,8 | 400 | 882 |
| P231563V14180 | P231563H14180 |      | 1800         | 3,6        | 502        | 27,6  | 7,3   | 2200 | 31900 | 220 | 152,6 | 112,3 | 400 | 882 |
| P231553V14200 | P231553H14200 | 20   | 1500         | 2,9        | 517        | 35,1  | 9,3   | 1800 | 26100 | 180 | 159,0 | 116,9 | 400 | 882 |
| P231563V14200 | P231563H14200 |      | 1800         | 3,6        | 502        | 34,0  | 9,0   | 1800 | 26100 | 180 | 154,2 | 113,4 | 400 | 882 |

Performances refer to theoretical delivery with 100% volumetric efficiency. For continuous or heavy-duty use, contact our technical department.

**H-200 UAP**

| IV GENERATION | IV GENERATION |      | Motor Engine |            | Crankshaft |       |       |      |       |     |       |       |     |      |
|---------------|---------------|------|--------------|------------|------------|-------|-------|------|-------|-----|-------|-------|-----|------|
| Code          | Code          | Ø mm | rpm          | gear ratio | rpm        | l/min | USgpm | bar  | psi   | MPa | HP    | kW    | kg  | lb   |
| P232053V14160 | P232053H14160 | 16   | 1500         | 3,14       | 478        | 26,0  | 6,9   | 2800 | 40600 | 280 | 183,0 | 134,6 | 500 | 1103 |
| P232063V14160 | P232063H14160 |      | 1800         | 3,79       | 475        | 25,8  | 6,8   | 2800 | 40600 | 280 | 181,7 | 133,6 | 500 | 1103 |
| P232053V14180 | P232053H14180 | 18   | 1500         | 3,14       | 478        | 32,8  | 8,7   | 2500 | 36250 | 250 | 206,7 | 152,1 | 500 | 1103 |
| P232063V14180 | P232063H14180 |      | 1800         | 3,79       | 475        | 32,6  | 8,6   | 2500 | 36250 | 250 | 205,3 | 151,0 | 500 | 1103 |
| P232053V14200 | P232053H14200 | 20   | 1500         | 3,14       | 478        | 40,6  | 10,7  | 2000 | 29000 | 200 | 204,2 | 150,2 | 500 | 1103 |
| P232063V14200 | P232063H14200 |      | 1800         | 3,79       | 475        | 40,3  | 10,6  | 2000 | 29000 | 200 | 202,8 | 149,2 | 500 | 1103 |

Performances refer to theoretical delivery with 100% volumetric efficiency. For continuous or heavy-duty use, contact our technical department.









**H-300 UAP**

| IV GENERATION | IV GENERATION |      | Motor Engine |            | Crankshaft |       |       |      |       |     |       |       |     |      |
|---------------|---------------|------|--------------|------------|------------|-------|-------|------|-------|-----|-------|-------|-----|------|
| Code          | Code          | Ø mm | rpm          | gear ratio | rpm        | l/min | USgpm | bar  | psi   | MPa | HP    | kW    | kg  | lb   |
| P233153V14200 | P233153H14200 | 20   | 1500         | 3,13       | 480        | 39,9  | 10,5  | 2800 | 40600 | 280 | 281,2 | 206,8 | 700 | 1544 |
| P233163V14200 | P233163H14200 |      | 1800         | 3,67       | 491        | 40,8  | 10,8  | 2800 | 40600 | 280 | 287,6 | 211,5 | 700 | 1544 |

Performances refer to theoretical delivery with 100% volumetric efficiency. For continuous or heavy-duty use, contact our technical department.



**H-100 SAP L**   

|  IV GENERATION |  IV GENERATION |  | Motor Engine |  | Crankshaft |  |  |  |  |      |       |      |     |     |
|---|---|---|--------------|---|------------|---|---|---|---|------|-------|------|-----|-----|
| Code  | Code  | Ø mm  | rpm          | gear ratio  | rpm        | l/min   | USgpm   | bar   | psi   | MPa  | HP    | kW   | kg  | lb  |
| P231154V11400   | P231154H11400   | 40  | 1500         | 2,9   | 517        | 155,9   | 41,2  | 270   | 3915  | 27   | 106,0 | 78,0 | 400 | 882 |
| P231164V11400   | P231164H11400   |   | 1800         | 3,6   | 502        | 151,2   | 39,9  | 270   | 3915  | 27   | 102,8 | 75,6 | 400 | 882 |
| P231154V11450   | P231154H11450   | 45  | 1500         | 2,9   | 517        | 197,3   | 52,1  | 215   | 3117,5  | 21,5 | 106,8 | 78,6 | 400 | 882 |
| P231164V11450   | P231164H11450   |   | 1800         | 3,6   | 502        | 191,4   | 50,6  | 215   | 3117,5  | 21,5 | 103,6 | 76,2 | 400 | 882 |
| P231154V11500   | P231154H11500   | 50  | 1500         | 2,9   | 517        | 243,6   | 64,4  | 170   | 2465  | 17   | 104,3 | 76,7 | 400 | 882 |
| P231164V11500   | P231164H11500   |   | 1800         | 3,6   | 502        | 236,3   | 62,4  | 170   | 2465  | 17   | 101,1 | 74,4 | 400 | 882 |
| P231154V11550   | P231154H11550   | 55  | 1500         | 2,9   | 517        | 294,8   | 77,9  | 145   | 2102,5  | 14,5 | 107,6 | 79,2 | 400 | 882 |
| P231164V11550   | P231164H11550   |   | 1800         | 3,6   | 502        | 285,9   | 75,5  | 145   | 2102,5  | 14,5 | 104,4 | 76,8 | 400 | 882 |
| P231154V11650   | P231154H11650   | 65  | 1500         | 2,9   | 517        | 411,9   | 108,8   | 110   | 1595,4  | 11   | 114,0 | 85,0 | 400 | 882 |
| P231164V11650   | P231164H11650   |   | 1800         | 3,6   | 500        | 398,2   | 105,2   | 110   | 1595,4  | 11   | 110,2 | 82,2 | 400 | 882 |

Performances refer to theoretical delivery with 100% volumetric efficiency. For continuous or heavy-duty use, contact our technical department.



**H-150 SAP L**

| Code          | Code          | Ø mm | rpm  | gear ratio | rpm | l/min | USgpm | bar | psi    | MPa  | HP    | kW    | kg  | lb  |
|---------------|---------------|------|------|------------|-----|-------|-------|-----|--------|------|-------|-------|-----|-----|
| P231554V11400 | P231554H11400 | 40   | 1500 | 2,9        | 517 | 155,9 | 41,2  | 400 | 5800   | 40   | 157,0 | 115,5 | 400 | 882 |
| P231564V11400 | P231564H11400 |      | 1800 | 3,6        | 502 | 151,2 | 39,9  | 400 | 5800   | 40   | 152,3 | 112,0 | 400 | 882 |
| P231554V11450 | P231554H11450 | 45   | 1500 | 2,9        | 517 | 197,3 | 52,1  | 320 | 4640   | 32   | 159,0 | 116,9 | 400 | 882 |
| P231564V11450 | P231564H11450 |      | 1800 | 3,6        | 502 | 191,4 | 50,6  | 320 | 4640   | 32   | 154,2 | 113,4 | 400 | 882 |
| P231554V11500 | P231554H11500 | 50   | 1500 | 2,9        | 517 | 243,6 | 64,4  | 260 | 3770   | 26   | 159,5 | 117,3 | 400 | 882 |
| P231564V11500 | P231564H11500 |      | 1800 | 3,6        | 502 | 236,3 | 62,4  | 260 | 3770   | 26   | 154,7 | 113,8 | 400 | 882 |
| P231554V11550 | P231554H11550 | 55   | 1500 | 2,9        | 517 | 294,8 | 77,9  | 215 | 3117,5 | 21,5 | 159,6 | 117,4 | 400 | 882 |
| P231564V11550 | P231564H11550 |      | 1800 | 3,6        | 502 | 285,9 | 75,5  | 215 | 3117,5 | 21,5 | 154,7 | 113,8 | 400 | 882 |
| P231554V11650 | P231554H11650 | 65   | 1500 | 2,9        | 517 | 411,9 | 108,8 | 160 | 2320,6 | 16   | 165,8 | 123,7 | 400 | 882 |
| P231564V11650 | P231564H11650 |      | 1800 | 3,6        | 500 | 398,2 | 105,2 | 160 | 2320,6 | 16   | 160,3 | 119,5 | 400 | 882 |










Performances refer to theoretical delivery with 100% volumetric efficiency. For continuous or heavy-duty use, contact our technical department.

**H-200 SAP L**

| Code          | Code          | Ø mm | rpm  | gear ratio | rpm | l/min | USgpm | bar | psi     | MPa  | HP    | kW    | kg  | lb   |
|---------------|---------------|------|------|------------|-----|-------|-------|-----|---------|------|-------|-------|-----|------|
| P232054V11400 | P232054H11400 | 40   | 1500 | 3,14       | 478 | 180,2 | 47,6  | 450 | 6525    | 45   | 204,2 | 150,2 | 500 | 1103 |
| P232064V11400 | P232064H11400 |      | 1800 | 3,79       | 475 | 179,0 | 47,3  | 450 | 6525    | 45   | 202,8 | 149,2 | 500 | 1103 |
| P232054V11450 | P232054H11450 | 45   | 1500 | 3,14       | 478 | 228,1 | 60,3  | 355 | 5147,5  | 35,5 | 203,9 | 150,0 | 500 | 1103 |
| P232064V11450 | P232064H11450 |      | 1800 | 3,79       | 475 | 226,5 | 59,8  | 355 | 5147,5  | 35,5 | 202,5 | 148,9 | 500 | 1103 |
| P232054V11500 | P232054H11500 | 50   | 1500 | 3,14       | 478 | 281,6 | 74,4  | 290 | 4205    | 29   | 205,6 | 151,2 | 500 | 1103 |
| P232064V11500 | P232064H11500 |      | 1800 | 3,79       | 475 | 279,7 | 73,9  | 290 | 4205    | 29   | 204,2 | 150,2 | 500 | 1103 |
| P232054V11550 | P232054H11550 | 55   | 1500 | 3,14       | 478 | 340,7 | 90,0  | 240 | 3480    | 24   | 205,9 | 151,4 | 500 | 1103 |
| P232064V11550 | P232064H11550 |      | 1800 | 3,79       | 475 | 338,4 | 89,4  | 240 | 3480    | 24   | 204,5 | 150,4 | 500 | 1103 |
| P232054V11650 | P232054H11650 | 65   | 1500 | 3,14       | 478 | 380,4 | 100,5 | 180 | 2610,72 | 18   | 172,3 | 128,5 | 500 | 1103 |
| P232064V11650 | P232064H11650 |      | 1800 | 3,79       | 475 | 378,2 | 99,9  | 180 | 2610,72 | 18   | 171,3 | 127,7 | 500 | 1103 |

Performances refer to theoretical delivery with 100% volumetric efficiency. For continuous or heavy-duty use, contact our technical department.









**H-300 SAP L**   

|  |  |  |  |  |  |  |  |  |        |     |       |       |     |      |
|---|---|---|---|---|---|---|---|---|--------|-----|-------|-------|-----|------|
| Code  | Code  | Ø mm  | rpm   | gear ratio  | rpm   | l/min   | USgpm   | bar   | psi    | MPa | HP    | kW    | kg  | lb   |
| P233154V11400   | P233154H11400   | 40  | 1500  | 3,13  | 480   | 177,2   | 46,8  | 750   | 10875  | 75  | 334,7 | 246,2 | 700 | 1544 |
| P233164V11400   | P233164H11400   |   | 1800  | 3,67  | 491   | 181,3   | 47,9  | 750   | 10875  | 75  | 342,4 | 251,8 | 700 | 1544 |
| P233154V11450   | P233154H11450   | 45  | 1500  | 3,13  | 480   | 224,3   | 59,3  | 600   | 8700   | 60  | 338,9 | 249,3 | 700 | 1544 |
| P233164V11450   | P233164H11450   |   | 1800  | 3,67  | 491   | 229,5   | 60,6  | 600   | 8700   | 60  | 346,7 | 255,0 | 700 | 1544 |
| P233154V11500   | P233154H11500   | 50  | 1500  | 3,13  | 480   | 276,9   | 73,2  | 490   | 7105   | 49  | 341,7 | 251,3 | 700 | 1544 |
| P233164V11500   | P233164H11500   |   | 1800  | 3,67  | 491   | 283,3   | 74,8  | 490   | 7105   | 49  | 349,5 | 257,1 | 700 | 1544 |
| P233154V11550   | P233154H11550   | 55  | 1500  | 3,13  | 480   | 335,1   | 88,5  | 400   | 5800   | 40  | 337,5 | 248,2 | 700 | 1544 |
| P233164V11550   | P233164H11550   |   | 1800  | 3,67  | 491   | 342,8   | 90,6  | 400   | 5800   | 40  | 345,2 | 253,9 | 700 | 1544 |
| P233154V11650   | P233154H11650   | 65  | 1500  | 3,13  | 479   | 381,7   | 100,8   | 300   | 4351,2 | 30  | 288,1 | 214,8 | 700 | 1544 |
| P233164V11650   | P233164H11650   |   | 1800  | 3,67  | 490   | 390,6   | 103,2   | 300   | 4351,2 | 30  | 294,8 | 219,9 | 700 | 1544 |

Performances refer to theoretical delivery with 100% volumetric efficiency. For continuous or heavy-duty use, contact our technical department.

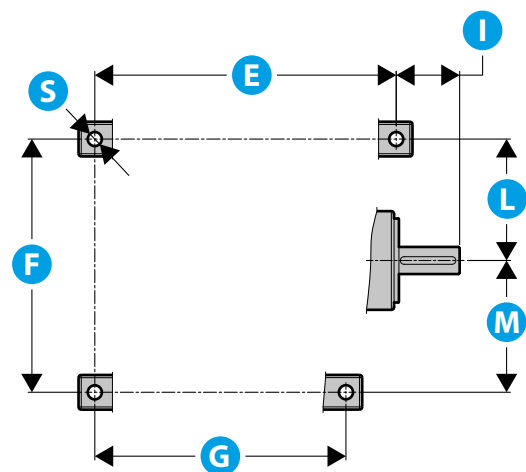
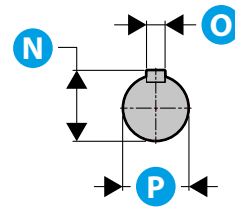
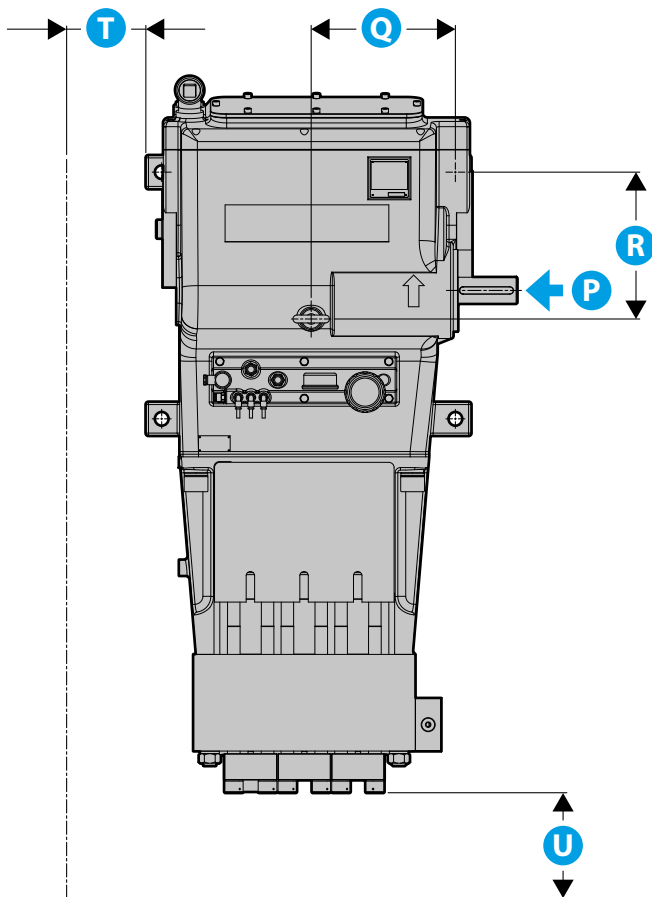
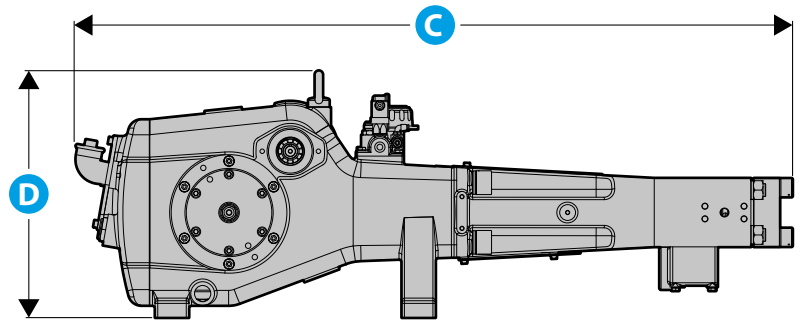
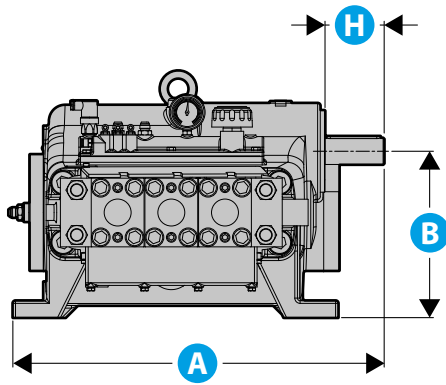


**H-550 SAP L**   

|  |  |  |  |  |  |  |  |      |     |       |       |      |      |
|---|---|---|---|---|--|---|---|------|-----|-------|-------|------|------|
| Code  | Ø mm  | rpm   | gear ratio  | rpm   | l/min  | USgpm   | bar   | psi  | MPa | HP    | kW    | kg   | lb   |
| P235564H11820   | 82  | 1800  | 4   | 450   | 741,1  | 195,8   | 320   | 4640 | 32  | 597,1 | 439,2 | 1500 | 3307 |
| P235564H111020  | 102   | 1800  | 4   | 450   | 1146,7   | 302,9   | 200   | 2900 | 20  | 577,4 | 424,7 | 1500 | 3307 |

Performances refer to theoretical delivery with 100% volumetric efficiency. For continuous or heavy-duty use, contact our technical department.

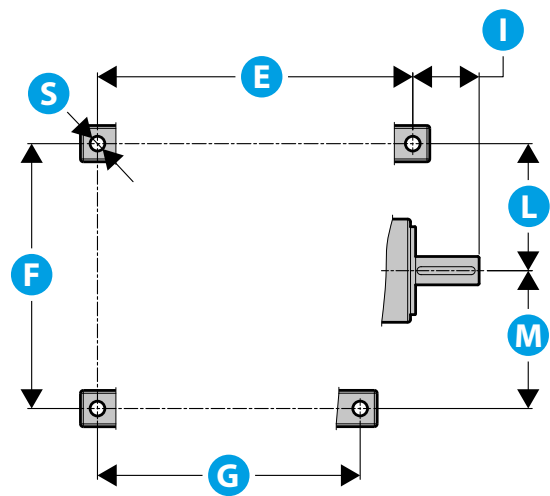
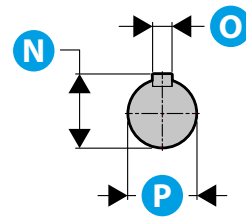
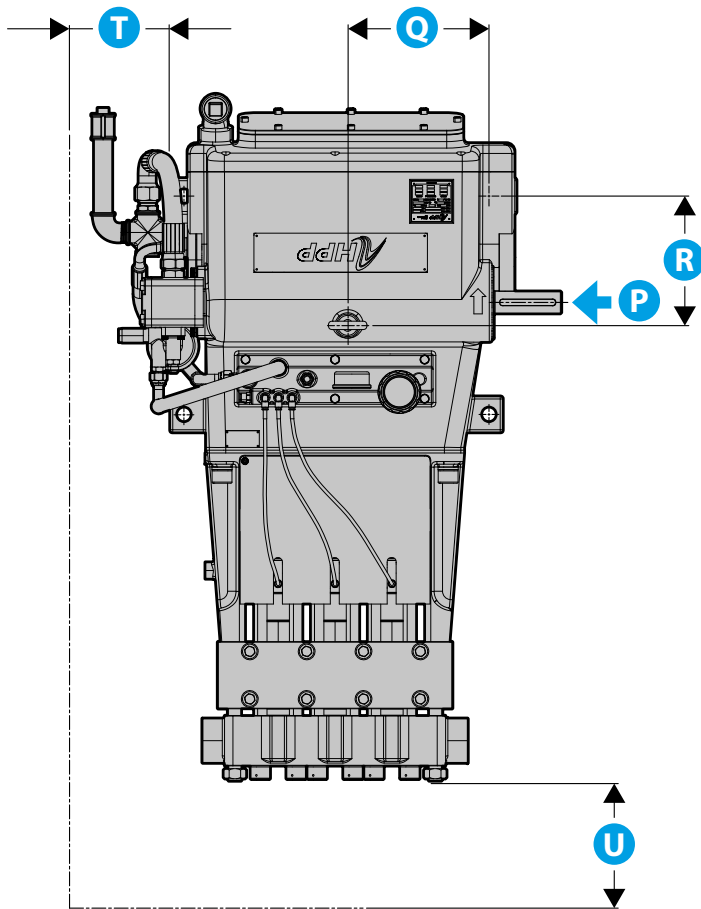
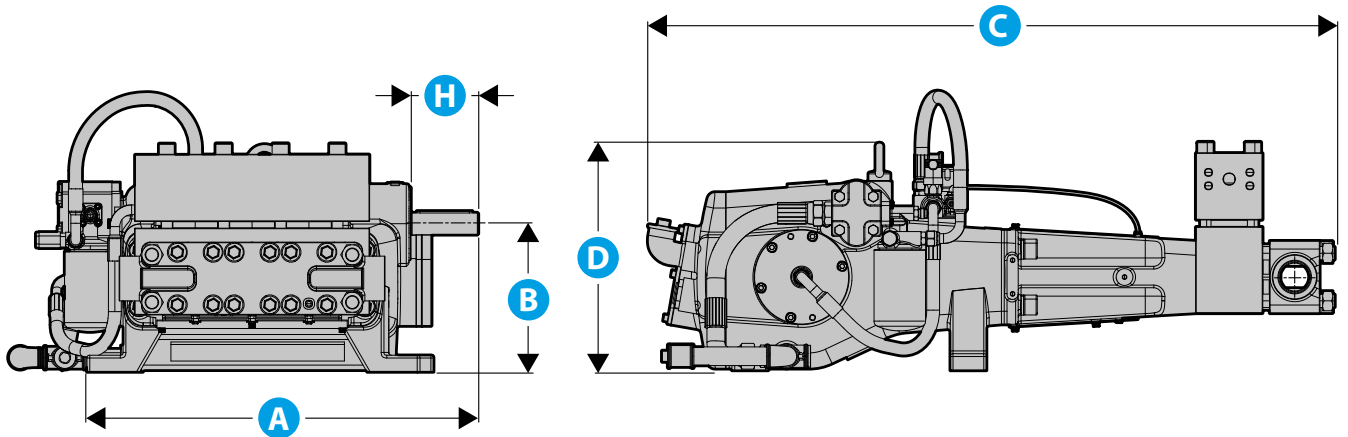
# SAP & UAP PUMPS DIMENSIONS





| Pump Model |      | H-100<br>SAP             | H-150<br>SAP             | H-200<br>SAP             | H-300<br>SAP             | H-550<br>SAP             | H-100<br>UAP             | H-150<br>UAP             | H-200<br>UAP             | H-300<br>UAP             |
|------------|------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| A          | mm   | 699,5                    | 699,5                    | 703                      | 739                      | 1004                     | 699,5                    | 699,5                    | 703                      | 739                      |
|            | (in) | (27,54)                  | (27,54)                  | (27,68)                  | (29,09)                  | (39,53)                  | (27,54)                  | (27,54)                  | (27,68)                  | (29,09)                  |
| B          | mm   | 265                      | 265                      | 315                      | 355                      | 450                      | 265                      | 265                      | 315                      | 355                      |
|            | (in) | (10,43)                  | (10,43)                  | (12,40)                  | (13,98)                  | (17,72)                  | (10,43)                  | (10,43)                  | (12,40)                  | (13,98)                  |
| C          | mm   | 1150                     | 1150                     | 1279                     | 1347                     | 1651                     | 1169                     | 1169                     | 1282                     | 1347                     |
|            | (in) | (45,27)                  | (45,27)                  | (50,35)                  | (53,03)                  | (65)                     | (46,02)                  | (46,02)                  | (50,47)                  | (53,03)                  |
| D          | mm   | 407,5                    | 407,5                    | 467,5                    | 505                      | 669,5                    | 407,5                    | 407,5                    | 467,5                    | 505                      |
|            | (in) | (16,04)                  | (16,04)                  | (18,41)                  | (19,88)                  | (26,63)                  | (16,04)                  | (16,04)                  | (18,41)                  | (19,88)                  |
| E          | mm   | 565                      | 565                      | 556                      | 592                      | 813                      | 565                      | 565                      | 556                      | 592                      |
|            | (in) | (22,24)                  | (22,24)                  | (21,89)                  | (23,31)                  | (32,01)                  | (22,24)                  | (22,24)                  | (21,89)                  | (23,31)                  |
| F          | mm   | 390                      | 390                      | 467                      | 540                      | 610                      | 390                      | 390                      | 467                      | 540                      |
|            | (in) | (15,35)                  | (15,35)                  | (18,39)                  | (21,26)                  | (24,02)                  | (15,35)                  | (15,35)                  | (18,39)                  | (21,26)                  |
| G          | mm   | 545                      | 545                      | 556                      | 553                      | 720                      | 545                      | 545                      | 556                      | 553                      |
|            | (in) | (21,45)                  | (21,45)                  | (21,89)                  | (21,77)                  | (28,35)                  | (21,46)                  | (21,46)                  | (21,89)                  | (21,77)                  |
| H          | mm   | 120,5                    | 120,5                    | 112                      | 126,5                    | 182                      | 120,5                    | 120,5                    | 112                      | 126,5                    |
|            | (in) | (4,74)                   | (4,74)                   | (4,41)                   | (4,98)                   | (7,17)                   | (4,74)                   | (4,74)                   | (4,41)                   | (4,98)                   |
| I          | mm   | 109,5                    | 109,5                    | 117                      | 117                      | 158,5                    | 109,5                    | 109,5                    | 117                      | 117                      |
|            | (in) | (4,31)                   | (4,31)                   | (4,61)                   | (4,61)                   | (6,24)                   | (4,31)                   | (4,31)                   | (4,61)                   | (4,61)                   |
| L          | mm   | 190                      | 190                      | 224                      | 286,4                    | 343,5                    | 190                      | 190                      | 224                      | 286,4                    |
|            | (in) | (7,48)                   | (7,48)                   | (8,82)                   | (11,28)                  | (13,5)                   | (7,48)                   | (7,48)                   | (8,82)                   | (11,28)                  |
| M          | mm   | 200                      | 200                      | 243                      | 253,6                    | 266,5                    | 200                      | 200                      | 243                      | 253,6                    |
|            | (in) | (7,87)                   | (7,87)                   | (9,57)                   | (9,98)                   | (10,49)                  | (7,87)                   | (7,87)                   | (9,57)                   | (9,98)                   |
| N          | mm   | 43                       | 43                       | 53,5                     | 62                       | 79,5                     | 43                       | 43                       | 53,5                     | 62                       |
|            | (in) | (1,69)                   | (1,69)                   | (2,11)                   | (2,44)                   | (3,13)                   | (1,69)                   | (1,69)                   | (2,11)                   | (2,44)                   |
| O          | mm   | 12<br>(DIN 6885)         | 12<br>(DIN 6885)         | 14<br>(DIN 6885)         | 16<br>(DIN 6885)         | 20<br>(DIN 6885)         | 12<br>(DIN 6885)         | 12<br>(DIN 6885)         | 14<br>(DIN 6885)         | 16<br>(DIN 6885)         |
|            | (in) | (0,47)                   | (0,47)                   | (0,55)                   | (0,63)                   | (0,79)                   | (0,47)                   | (0,47)                   | (0,55)                   | (0,63)                   |
| P          | mm   | ø 40<br>+0,018<br>+0,002 | ø 40<br>+0,018<br>+0,002 | ø 50<br>+0,018<br>+0,002 | ø 58<br>+0,021<br>+0,002 | ø 75<br>+0,021<br>+0,002 | ø 40<br>+0,018<br>+0,002 | ø 40<br>+0,018<br>+0,002 | ø 50<br>+0,018<br>+0,002 | ø 58<br>+0,021<br>+0,002 |
|            | (in) | (ø 1,57)                 | (ø 1,57)                 | (ø 1,97)                 | (ø 2,28)                 | (ø 2,95)                 | (ø 1,57)                 | (ø 1,57)                 | (ø 1,97)                 | (ø 2,28)                 |
| Q          | mm   | 272,5                    | 272,5                    | 273                      | 320                      | 401,5                    | 272,5                    | 272,5                    | 273                      | 320                      |
|            | (in) | (10,73)                  | (10,73)                  | (10,75)                  | (12,60)                  | (15,79)                  | (10,73)                  | (10,73)                  | (10,75)                  | (12,60)                  |
| R          | mm   | 231                      | 231                      | 278                      | 340                      | 426                      | 231                      | 231                      | 278                      | 340                      |
|            | (in) | (9,09)                   | (9,09)                   | (10,94)                  | (13,39)                  | (16,77)                  | (9,09)                   | (9,09)                   | (10,94)                  | (13,39)                  |
| S          | mm   | ø 26                     | ø 26                     | ø 26                     | ø 26                     | ø 28                     | ø 26                     | ø 26                     | ø 26                     | ø 26                     |
|            | (in) | (ø 1,02)                 | (ø 1,02)                 | (ø 1,02)                 | (ø 1,02)                 | (1,10)                   | (ø 1,02)                 | (ø 1,02)                 | (ø 1,02)                 | (ø 1,02)                 |
| T          | mm   | 150                      | 150                      | 150                      | 150                      | 150                      | 150                      | 150                      | 150                      | 150                      |
|            | (in) | (5,91)                   | (5,91)                   | (5,91)                   | (5,91)                   | (5,91)                   | (5,91)                   | (5,91)                   | (5,91)                   | (5,91)                   |
| U          | mm   | 500                      | 500                      | 500                      | 500                      | 500                      | 500                      | 500                      | 500                      | 500                      |
|            | (in) | (19,69)                  | (19,69)                  | (19,69)                  | (19,69)                  | (19,69)                  | (19,69)                  | (19,69)                  | (19,69)                  | (19,69)                  |

# SAP L PUMPS DIMENSIONS



| Pump Model |      | H-100<br>SAPL            | H-150<br>SAPL            | H-200<br>SAPL            | H-300<br>SAPL            | H-550<br>SAPL            |
|------------|------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| A          | mm   | 699,5                    | 699,5                    | 703                      | 739                      | 1004                     |
|            | (in) | (27,54)                  | (27,54)                  | (27,68)                  | (29,09)                  | (39,52)                  |
| B          | mm   | 265                      | 265                      | 315                      | 355                      | 450                      |
|            | (in) | (10,43)                  | (10,43)                  | (12,40)                  | (13,98)                  | (17,72)                  |
| C          | mm   | 1244                     | 1244                     | 1380                     | 1423                     | 1726                     |
|            | (in) | (48,97)                  | (48,97)                  | (54,33)                  | (56,02)                  | (67,95)                  |
| D          | mm   | 407,5                    | 407,5                    | 467,5                    | 505                      | 670                      |
|            | (in) | (16,04)                  | (16,04)                  | (18,41)                  | (19,88)                  | (26,38)                  |
| E          | mm   | 565                      | 565                      | 556                      | 592                      | 813                      |
|            | (in) | (22,24)                  | (22,24)                  | (21,89)                  | (23,31)                  | (32,01)                  |
| F          | mm   | 390                      | 390                      | 467                      | 540                      | 610                      |
|            | (in) | (15,35)                  | (15,35)                  | (18,39)                  | (21,26)                  | (24,02)                  |
| G          | mm   | 545                      | 545                      | 556                      | 553                      | 720                      |
|            | (in) | (21,45)                  | (21,45)                  | (21,89)                  | (21,77)                  | (28,35)                  |
| H          | mm   | 120,5                    | 120,5                    | 112                      | 126,5                    | 182                      |
|            | (in) | (4,74)                   | (4,74)                   | (4,41)                   | (4,98)                   | (7,17)                   |
| I          | mm   | 109,5                    | 109,5                    | 117                      | 117                      | 158,5                    |
|            | (in) | (4,31)                   | (4,31)                   | (4,61)                   | (4,61)                   | (6,24)                   |
| L          | mm   | 190                      | 190                      | 224                      | 286,4                    | 343,5                    |
|            | (in) | (7,48)                   | (7,48)                   | (8,82)                   | (11,28)                  | (13,5)                   |
| M          | mm   | 200                      | 200                      | 243                      | 253,6                    | 266,5                    |
|            | (in) | (7,87)                   | (7,87)                   | (9,57)                   | (9,98)                   | (10,49)                  |
| N          | mm   | 43                       | 43                       | 53,5                     | 62                       | 79,5                     |
|            | (in) | (1,69)                   | (1,69)                   | (2,11)                   | (2,44)                   | (3,13)                   |
| O          | mm   | 12<br>(DIN 6885)         | 12<br>(DIN 6885)         | 14<br>(DIN 6885)         | 16<br>(DIN 6885)         | 20<br>(DIN 6885)         |
|            | (in) | (0,47)                   | (0,47)                   | (0,55)                   | (0,63)                   | (0,79)                   |
| P          | mm   | ø 40<br>+0,018<br>+0,002 | ø 40<br>+0,018<br>+0,002 | ø 50<br>+0,018<br>+0,002 | ø 58<br>+0,021<br>+0,002 | ø 75<br>+0,021<br>+0,002 |
|            | (in) | (ø 1,57)                 | (ø 1,57)                 | (ø 1,97)                 | (ø 2,28)                 | (ø 2,95)                 |
| Q          | mm   | 272,5                    | 272,5                    | 273                      | 320                      | 401,5                    |
|            | (in) | (10,73)                  | (10,73)                  | (10,75)                  | (12,60)                  | (15,79)                  |
| R          | mm   | 231                      | 231                      | 278                      | 340                      | 426                      |
|            | (in) | (9,09)                   | (9,09)                   | (10,94)                  | (13,39)                  | (16,77)                  |
| S          | mm   | ø 26                     | ø 26                     | ø 26                     | ø 26                     | ø 28                     |
|            | (in) | (ø 1,02)                 | (ø 1,02)                 | (ø 1,02)                 | (ø 1,02)                 | (1,10)                   |
| T          | mm   | 150                      | 150                      | 150                      | 150                      | 150                      |
|            | (in) | (5,91)                   | (5,91)                   | (5,91)                   | (5,91)                   | (5,91)                   |
| U          | mm   | 500                      | 500                      | 500                      | 500                      | 500                      |
|            | (in) | (19,69)                  | (19,69)                  | (19,69)                  | (19,69)                  | (19,69)                  |



## SCIMITAR 22K - 40K

Scimitar are fundamental tools for waterblasting featuring an efficient speed control system, adjustable thanks to a magnetic brake with easy-rotation of the handle grip. Specially developed for surface treatment, they can be mounted on gun lance or automatized systems.

These lightweight tools are particularly efficient for surface preparation. Scimitar are easy-to-use and easy-to-maintain tools, suitable for many different working areas.











### SELF-ROTARY WATERBLASTING TOOLS



## PUMP ACCESSORIES

|   |  |  |   |
|---|--|--|---|
| <p><b>REGULATING VALVES</b></p>  | <p><b>PNEUMATIC CONTROL VALVES</b></p>  | <p><b>SAFETY VALVES</b></p>  | <p><b>PRESSURE GAUGES</b></p>  |
|---|--|--|---|

## ACCESSORIES FOR WORK

|  |   |   |  |
|--|---|---|--|
| <p><b>DUMP SHUT GUNS / UNDERWATER GUNS / PNEUMATIC GUNS</b></p>   | <p><b>DUMP TYPE FOOT VALVE</b></p>                             | <p><b>MULTI-JET</b><br/>Multi-purpose surface. Preparation system for floors and hulls. 2800 bar (40K psi).</p>  |  |
| <p><b>POWER BOX</b><br/>3/2" Ultra High Pressure control valve to control the gun's water flow and/or operate with a multi-gun system.</p>  | <p><b>HIGH PRESSURE HOSES / ULTRA HIGH PRESSURE HOSES</b></p>  |   |  |
| <p><b>FLEXIBLE LANCE NOZZLES / RIGID LANCE NOZZLES</b></p>    | <p><b>HIGH PRESSURE SWIVEL FOR HOSES</b></p>                   | <p><b>ROTATING NOZZLES</b></p>    | <p><b>PROTECTIVE CLOTHING FOR WATERJETTING (TST)</b></p>  |
| <p><b>FLEXIBLE LANCES / RIGID LANCES</b></p>    |   |   |  |

# HIGH PRESSURE PUMPS FOR AN ENTIRE WORLD OF POSSIBLE APPLICATIONS

| Application   | Bar (Psi)  |
|---|--|
| <p><b>ALLUMINIUM AND STEEL MILLS</b><br/>                     Hardened bauxite dust on mills, filters, floors, tanks, sumps and sewers; water scale, coke, ore and lime in heat exchangers, flues, boilers, open hearths, furnaces, chutes and hoppers, descaling billets and water hydraulics; mill scale, tight rust and weld slag from vessels, tanks and pipes.</p> | <p><b>200 - 2.800</b><br/> <b>(3.000 - 40.000)</b></p> |



| Application   | Bar (Psi)   |
|---|---|
| <p><b>AUTOMOTIVE</b><br/>                     Paint from booths, machinery, gratings, conveyers, dollies and skids.</p> | <p><b>700 - 2.800</b><br/> <b>(10.000 - 40.000)</b></p> |

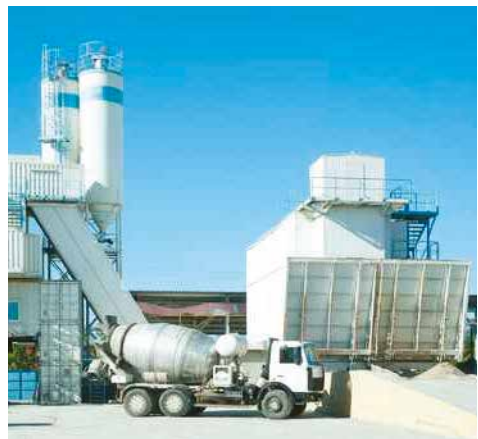
| Application   | Bar (Psi)   |
|---|---|
| <p><b>AVIATION</b><br/>                     Expansion joints, grease, rubber and hydraulic fluids on airport runways.</p> | <p><b>700 - 1.400</b><br/> <b>(10.000 - 20.000)</b></p> |



| Application   | Bar (Psi)  |
|---|--|
| <p><b>BREWERIES AND DISTILLERIES</b><br/>                     Yeast, sediments and fermentation residues on vats, pipes and facilities; cleaning of boilers tubes, vats and pipe lines.</p> | <p><b>200 - 1.500</b><br/> <b>(3.000 - 22.000)</b></p> |

# HIGH PRESSURE PUMPS FOR AN ENTIRE WORLD OF POSSIBLE APPLICATIONS

| Application   | Bar (Psi)   |
|---|---|
| <p><b>CEMENT PLANTS</b><br/>external piping, bins, walls, hopper cars and handling equipment; cooler hearths and pre-heater columns, bins, hopper cars, floors, rotary kilns and walls.</p> | <p><b>200 - 1.000</b><br/><b>(3.000 - 15.000)</b></p> |



| Application  | Bar (Psi)   |
|--|---|
| <p><b>CHEMICAL PROCESSING</b><br/>Chemicals from boiler tubes, tanks, valves, evaporators, heat exchangers, tube bundles, pipes, vessels, reactors and facilities.</p> | <p><b>350 - 2.800</b><br/><b>(5.000 - 40.000)</b></p> |


| Application  | Bar (Psi)   |
|--|---|
| <p><b>CONSTRUCTION AND RENOVATION</b><br/>Asphalt distributors, mixers, tar cookers and pavers; asphalt, dirt, concrete, mortar, tar, grease, mastic and clay on vehicles, mixer trucks and machinery; canals, lifts, dams and runways; cleaning of natural stone walling, removal of joint materials, coats, damaged or corroded coatings from walls and floors, roughening of concrete and stone surfaces.</p> | <p><b>200 - 2.800</b><br/><b>(3.000 - 40.000)</b></p> |





| Application  | Bar (Psi)   |
|--|---|
| <p><b>FOOD AND BEVERAGES PROCESSING</b><br/>Fats, oils, dirt and dough, food residues from vats, ovens, mixers, conveyors and facilities; cleaning of cold storage facilities, slaughter-houses, fish and meat butchers, sugar processing plants, bottling plants, food cutting, evaporators, milk tanks, centralised dairy systems, ultra-filtration by reverse osmosis; water jet cutting.</p> | <p><b>200 - 1.000</b><br/><b>(3.000 - 15.000)</b></p> |




## HIGH PRESSURE PUMPS FOR AN ENTIRE WORLD OF POSSIBLE APPLICATIONS


| Application  | Bar (Psi)                                    |   |
|--|--|---|
| <p><b>FOUNDRIES</b><br/>Removal of deposits, metal oxidation, ceramic and sand core materials from castings, furnaces and paddles.</p> | <p><b>100 - 700<br/>(1.500 - 10.000)</b></p> |  |


| Application   | Bar (Psi)  | Bar (Psi)   |
|---|--|---|
|  | <p><b>HYDRODEMOLITION</b><br/>Concrete cement cutting, reclamation and wet sandblasting of tunnels also using special robots; concrete surface hydro-ripping for large infrastructure, dams, viaducts, homes and offices; surface preparation.</p> | <p><b>1.000 - 2.800<br/>(15.000 - 40.000)</b></p> |


| Application  | Bar (Psi)                                      |   |
|--|--|---|
| <p><b>MARINE</b><br/>Removal of marine growth, barnacles, loose paint and rust on ship hulls, docks, ballasts, platforms, condensers, floating drydocks, anchor chains, storage tanks and boilers; underwater cleaning of pipes and drilling platforms, of barnacles and marine growth to 'white metal'; coatings removal prior to repainting; draining of sludge and sediments from cargo holds, ballast tanks and double bottoms; surface preparation.</p> | <p><b>350 - 2.800<br/>(5.000 - 40.000)</b></p> |  |


| Application  | Bar (Psi)   | Bar (Psi)                                       |
|--|---|---|
|  | <p><b>MILITARY</b><br/>Airport cleaning, nuclear decontamination, cleaning navy applications, wheel and tracked vehicles, rehabilitation and/or decommissioning of concrete installations, cold cutting of ammunition and armoured tanks in decommissioned sites.</p> | <p><b>700 - 2.800<br/>(10.000 - 40.000)</b></p> |

## HIGH PRESSURE PUMPS FOR AN ENTIRE WORLD OF POSSIBLE APPLICATIONS

| Application  | Bar (Psi)                                   |   |
|--|---|---|
| <p><b>MINING</b><br/>Pre-maintenance cleaning of dumpers, drag lines, underground haulage lines and shafts; aids in the recovery of ore; unclog plant machinery due to deposits of coal, rock dust, mud or oils.</p> | <p><b>100 - 500<br/>(1.500 - 7.000)</b></p> |  |

|   | Application  | Bar (Psi)                                   |
|---|--|---|
|  | <p><b>MUNICIPALITIES</b><br/>Reservoirs and containers, sewers and drain pipes, sanitation equipment and refuse vehicles; insulators, boiler tubes, vehicles and machinery; surface preparation.</p> | <p><b>200 - 500<br/>(3.000 - 7.000)</b></p> |

| Application  | Bar (Psi)                                      |   |
|--|--|---|
| <p><b>OILFIELDS</b><br/>Paraffin and crude residues from platforms and storage tanks; removal of drilling mud and cement from drill pipes; "cold" cutting.</p> | <p><b>200 - 2.800<br/>(3.000 - 40.000)</b></p> |  |

|  | Application   | Bar (Psi)                                      |
|--|---|--|
|  | <p><b>PETROCHEMICAL PROCESSING AND REFINERIES</b><br/>Algae, carbon, scum, soft polymers and asbestos, wax, paraffin, grease and crude residues, water scale, calcium sulphate, chlorides, hard polymers, iron oxide, coke, hard carbon, PVC and PVA in heat exchangers, re-boilers, tanks, reactors, pipes, cooling towers and facilities; "cold" cutting.</p> | <p><b>350 - 2.800<br/>(5.000 - 40.000)</b></p> |



## HIGH PRESSURE PUMPS FOR AN ENTIRE WORLD OF POSSIBLE APPLICATIONS

| Application  | Bar (Psi)   |
|--|---|
| <p><b>PHARMACEUTICAL</b></p> <p>Cleaning of chemicals (liquid and solid) from pipes, kettles, mixers, tubes, heat exchangers, reactors, filters and evaporators.</p> | <p><b>500 - 2.800</b><br/><b>(7.000 - 40.000)</b></p> |




| Application   | Bar (Psi)   |
|---|---|
| <p><b>PIPES (INDUSTRIAL)</b></p> <p>Removal of rust and varnish prior to recoating, dope and oil from pipe threads for inspection, drilling mud and debris in various kinds of pipes (internal); manual or fully automatic test units equipped with plunger pumps for filling and test processes.</p> | <p><b>100 - 700</b><br/><b>(1.500 - 10.000)</b></p> |


| Application   | Bar (Psi)  |
|---|--|
| <p><b>POWER STATIONS</b></p> <p>Nuclear decontamination of fuel capsules, 'U' tube exchangers, flash from pre-heater tubes, hand tools and equipment.</p> | <p><b>700 - 2.800</b><br/><b>(10.000 - 40.000)</b></p> |





| Application  | Bar (Psi)  |
|--|--|
| <p><b>PRESSURE TESTING</b></p> <p>Manual or fully automatic test benches up to 7.000 bar used for pressure testing of valves, tubings, hoses, fittings and complete systems.</p> | <p><b>400 - 7.000</b><br/><b>(6.000 - 100.000)</b></p> |

## HIGH PRESSURE PUMPS FOR AN ENTIRE WORLD OF POSSIBLE APPLICATIONS

| Application  | Bar (Psi)                                    |  |
|--|--|---|
| <p><b>PULP &amp; PAPER</b><br/>                     Cleaning of grease, oil, pitch, dirt and wood pulp from heat exchangers, tubes, foundries, press sections of paper machines, suction rolls, stock chests and lines; water jet cutting.</p> | <p><b>350 - 700<br/>(5.000 - 10.000)</b></p> |   |

| Application  | Bar (Psi)                                      |  |
|--|--|---|
| <p><b>RAILWAYS</b><br/>                     Gypsum, potash, cement, lime in hopper cars; removing grease, dirt and deposits from trucks, undercarriages and tank cars; removal of leaf mulch from railway lines.</p> | <p><b>350 - 2.800<br/>(5.000 - 40.000)</b></p> |   |

| Application  | Bar (Psi)                                      |  |
|--|--|---|
| <p><b>RUBBER PROCESSING</b><br/>                     Latex, SBR and water scale in reactors, storage tanks, heat exchangers, tubing, pipes and facilities.</p> | <p><b>600 - 2.800<br/>(9.000 - 40.000)</b></p> |   |

| Application  | Bar (Psi)                                      |  |
|--|--|--|
| <p><b>TRAFFIC AND TRANSPORTS</b><br/>                     Removal of road markings, cleaning of railway carriages and buses, renovation of concrete surfaces; cleaning of grease, vegetation, mud, tar, cement or asphalt on vehicles and machinery; graffiti, stains, tar and mastics on concrete bridges and overpasses, removal of expansion joints and paint strips; unblock culverts on bridges and clean up overspill.</p> | <p><b>350 - 1.000<br/>(5.000 - 15.000)</b></p> |  |











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Comet Spa › via G. Dorso, 4 - 42124 Reggio Emilia › Italy › phone + 39 0522 386111 › www.hpp-pressurepumps.com  
Italia: vendite@comet.re.it › Fax + 39 0522 386300  
Export: export@comet.re.it › Fax + 39 0522 386280



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Distributed by: / Distribuito da:  
P.T.C. Srl › via Mantegna, 4 - 42048 Rubiera (RE) - Italy  
Phone: +39 0522/1932911 › Fax: +39 0522/1932922  
mail: info@ptcitaliana.com › website: www.ptcitaliana.com