

GENERAL CATALOGUE

*HIGH  
PRESSURE  
PUMPS  
H SERIES*



 **HPP**  
HIGH PRESSURE PUMPS

# TECHNICAL DETAILS





Up to 2800 bar  
(40000 psi)

Valves

Solid tungsten  
carbide plungers

Forced feed  
lubrication

Integrated  
gear reductor

Vertical or horizontal assembling  
 

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.

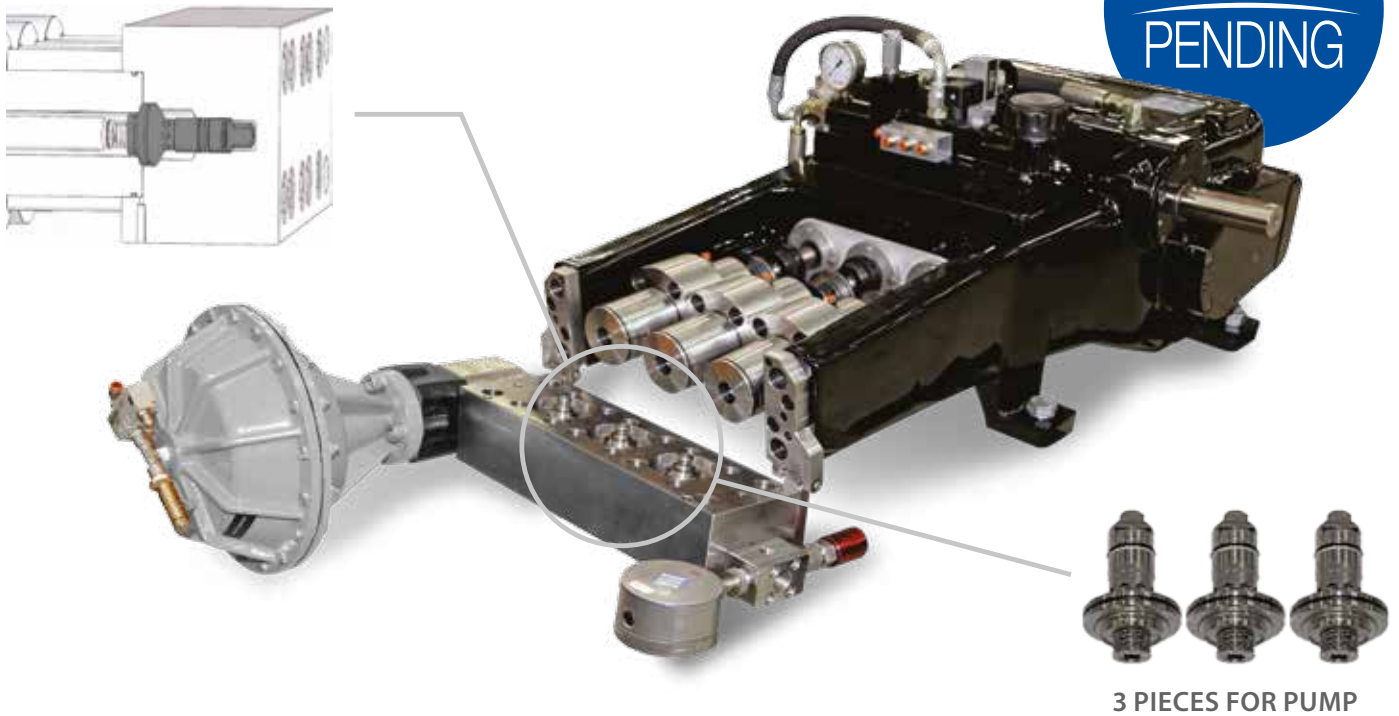


# INTELLICORE HEAD

## 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



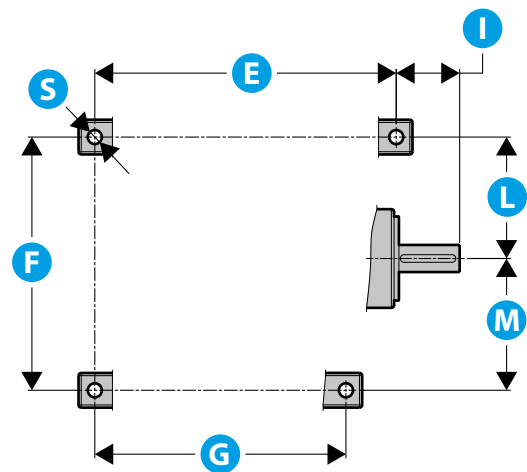
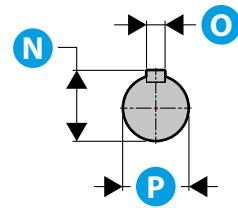
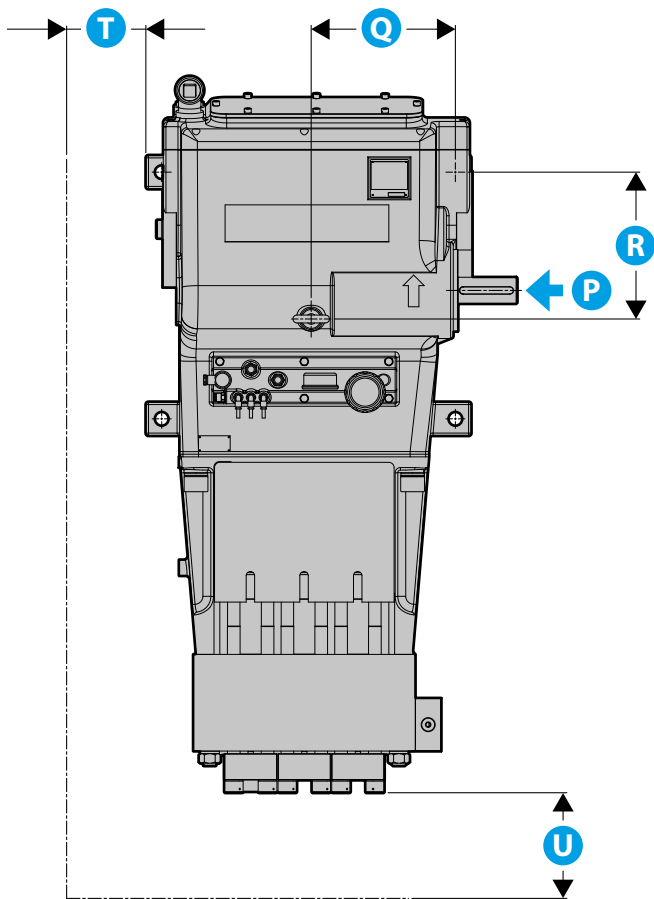
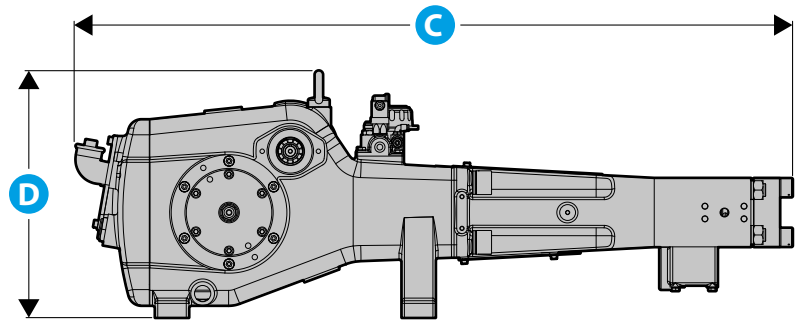
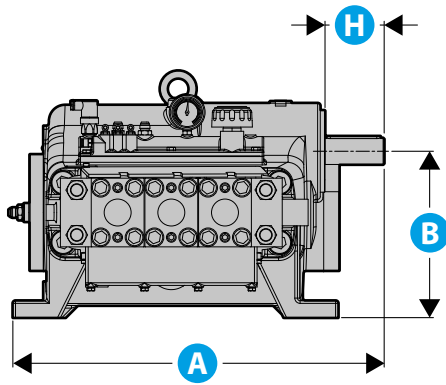
## SAP SERIES UP TO 1500 BAR

**H-100 SAP**  

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

# SAP & UAP PUMPS DIMENSIONS



Pump Model		H-100 SAP	H-150 SAP	H-200 SAP	H-300 SAP	H-550 SAP	H-100 UAP	H-150 UAP	H-200 UAP	H-300 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	1121	1121	1220	1374	1528	1224	1224	1357	1416
	(in)	(44,13)	(44,13)	(48,03)	(54,09)	(60,16)	(48,19)	(48,19)	(53,43)	(55,75)
D	mm	407,5	407,5	467,5	505	699	407,5	407,5	467,5	505
	(in)	(16,04)	(16,04)	(18,41)	(19,88)	(27,52)	(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	546	546	556	592	720	545	545	556	592
	(in)	(21,50)	(21,50)	(21,89)	(23,31)	(28,35)	(21,46)	(21,46)	(21,89)	(23,31)
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	110	110	117	117	158,5	109,5	109,5	117	117
	(in)	(4,33)	(4,33)	(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 (DIN 6885)	12 (DIN 6885)	14 (DIN 6885)	16 (DIN 6885)	20 (DIN 6885)	12 (DIN 6885)	12 (DIN 6885)	14 (DIN 6885)	16 (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 +0,018 +0,002	ø 40 +0,018 +0,002	ø 50 +0,018 +0,002	ø 58 +0,021 +0,002	ø 75 +0,021 +0,002	ø 40 +0,018 +0,002	ø 40 +0,018 +0,002	ø 50 +0,018 +0,002	ø 58 +0,021 +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)