

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.

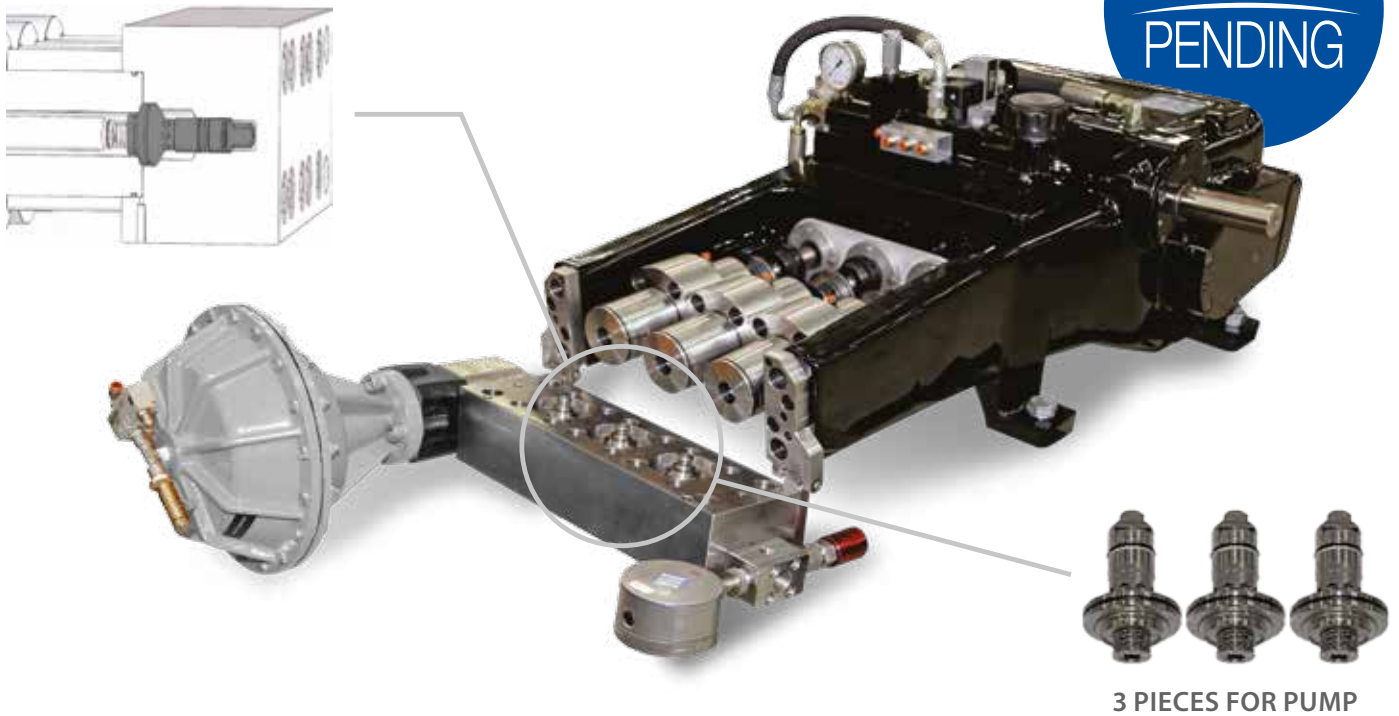


INTELLICORE

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		Motor Engine		Crankshaft									
Code	Ø mm	rpm	gear ratio	rpm	l/min	USgpm	bar	psi	MPa	HP	kW	kg	lb
P231152H14180	18	1500	2,9	517	31,6	8,3	1400	20300	140	111,3	81,9	400	882
P231162H14180		1800	3,6	502	30,6	8,1	1400	20300	140	107,9	79,4	400	882
P231152H14200	20	1500	2,9	517	39,0	10,3	1000	14500	100	98,1	72,2	400	882
P231162H14200		1800	3,6	502	37,8	10,0	1000	14500	100	95,2	70,0	400	882
P231152H14220	22	1500	2,9	517	47,2	12,5	900	13050	90	106,9	78,6	400	882
P231162H14220		1800	3,6	502	45,7	12,1	900	13050	90	103,6	76,2	400	882
P231152H14240	24	1500	2,9	517	56,1	14,8	750	10875	75	106,0	78,0	400	882
P231162H14240		1800	3,6	502	54,4	14,4	750	10875	75	102,8	75,6	400	882
P231152H14260	26	1500	2,9	517	65,9	17,4	650	9425	65	107,8	79,3	400	882
P231162H14260		1800	3,6	502	63,9	16,9	650	9425	65	104,5	76,9	400	882
P231152H14280	28	1500	2,9	517	76,4	20,2	600	8700	60	115,4	84,9	400	882
P231162H14280		1800	3,6	502	74,1	19,6	600	8700	60	111,9	82,3	400	882
P231152H14300	30	1500	2,9	517	87,7	23,2	500	7250	50	110,4	81,2	400	882
P231162H14300		1800	3,6	502	85,1	22,5	500	7250	50	107,1	78,8	400	882
P231152H14320	32	1500	2,9	517	99,8	26,4	420	6090	42	105,5	77,6	400	882
P231162H14320		1800	3,6	502	96,8	25,6	420	6090	42	102,3	75,3	400	882
P231152H14350	35	1500	2,9	517	119,4	31,5	330	4785	33	99,2	73,0	400	882
P231162H14350		1800	3,6	502	115,8	30,6	330	4785	33	96,2	70,7	400	882
P231152H14400	40	1500	2,9	517	155,9	41,2	270	3915	27	106,0	78,0	400	882
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-300 SAP

 IV GENERATION	 IV GENERATION													
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

													
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.

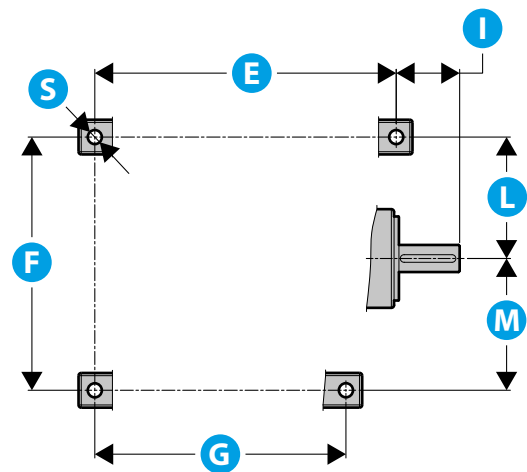
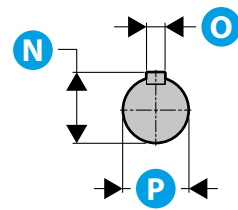
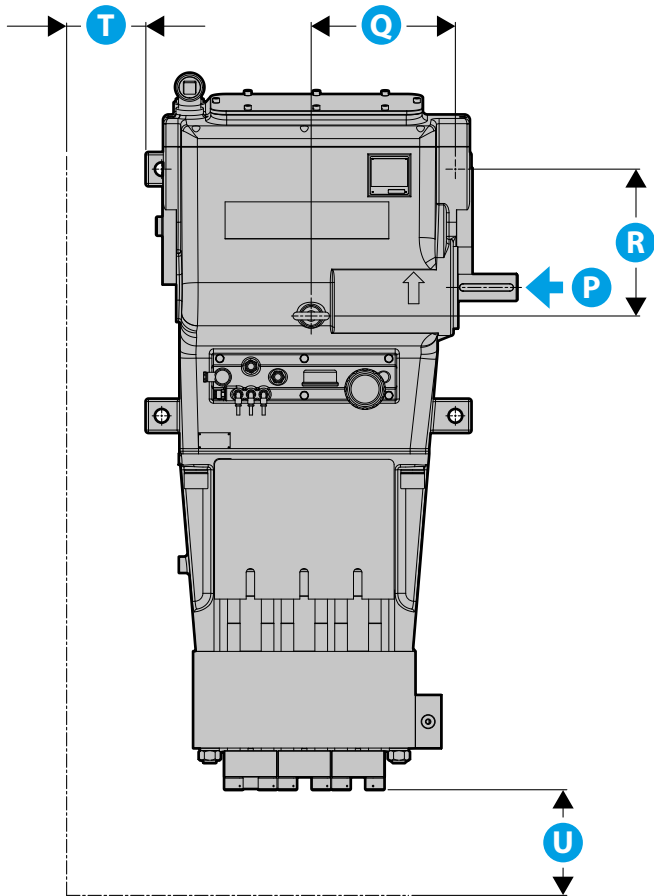
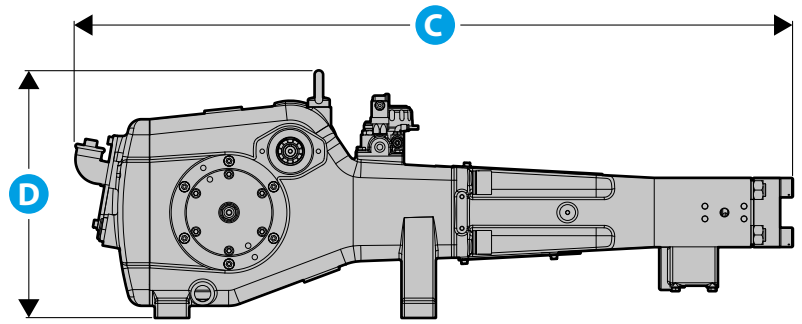
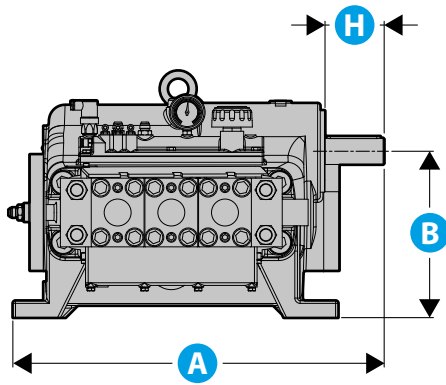
UAP SERIES UP TO 2800 BAR


H-100 UAP

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

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)