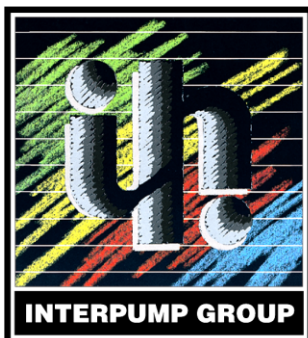


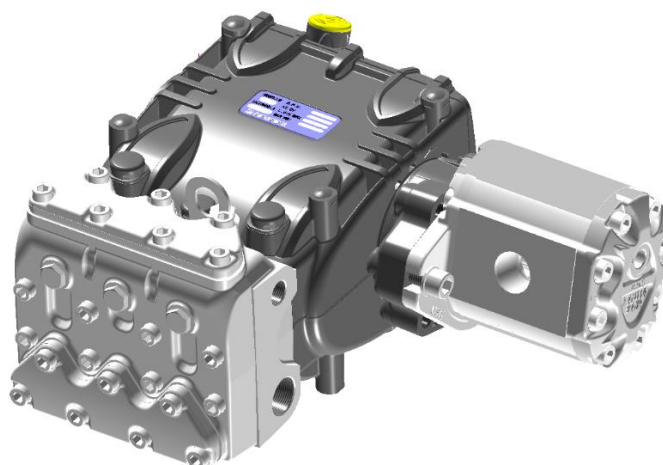
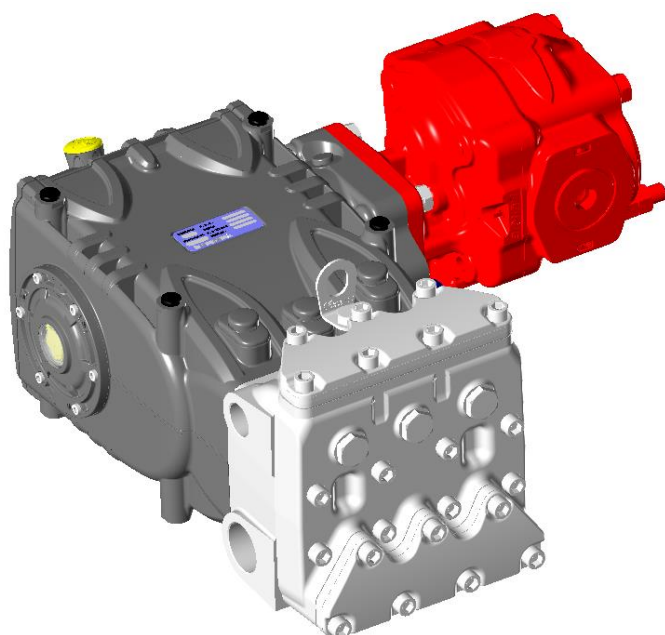
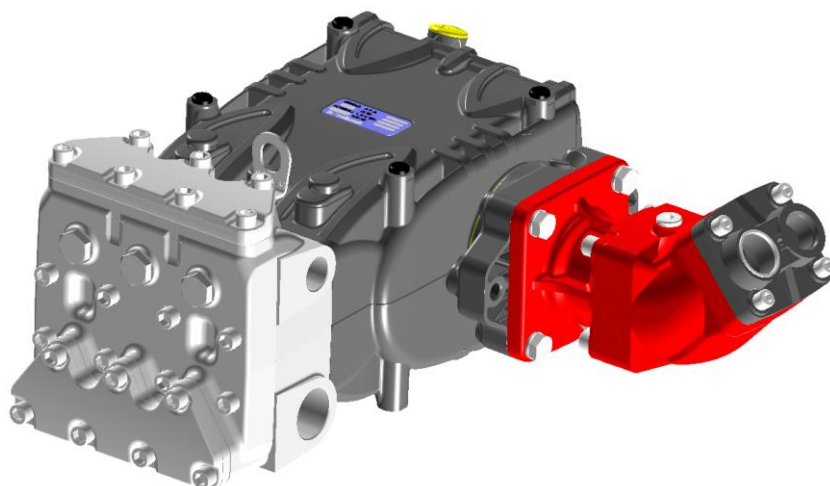


INTERPUMP GROUP

ISTRUZIONI D'USO
INSTRUCTION FOR



SERIE HY-PACK



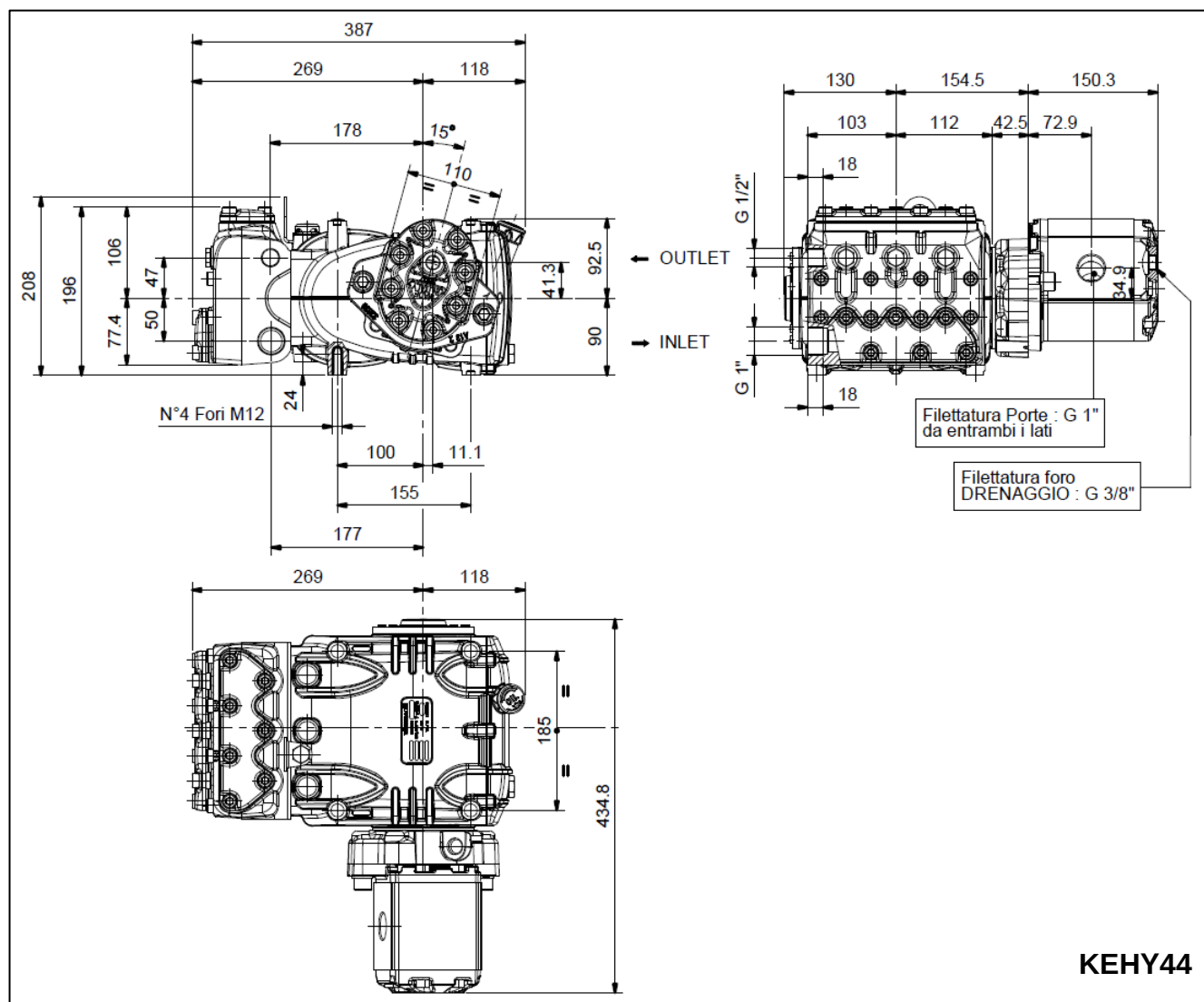
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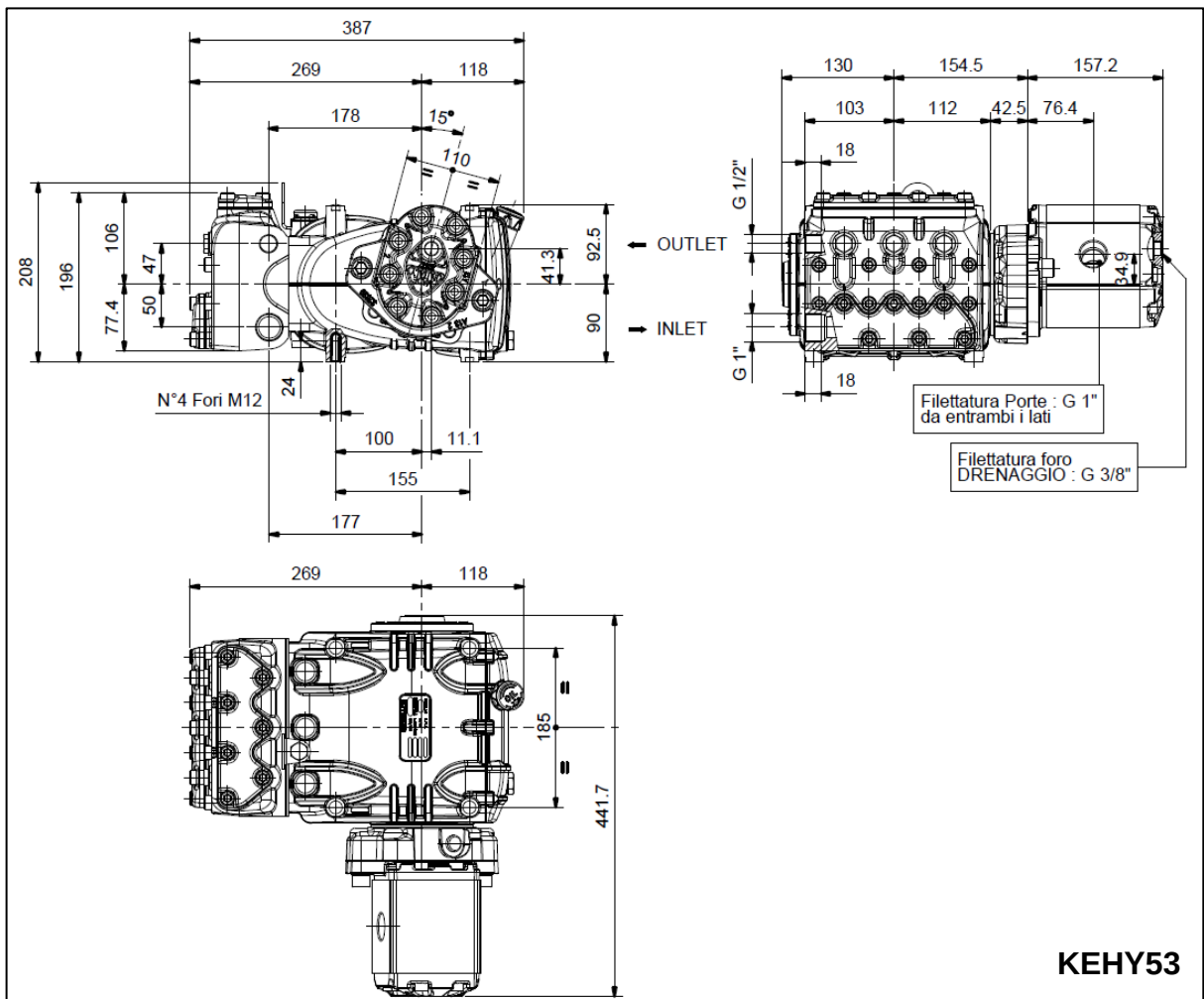
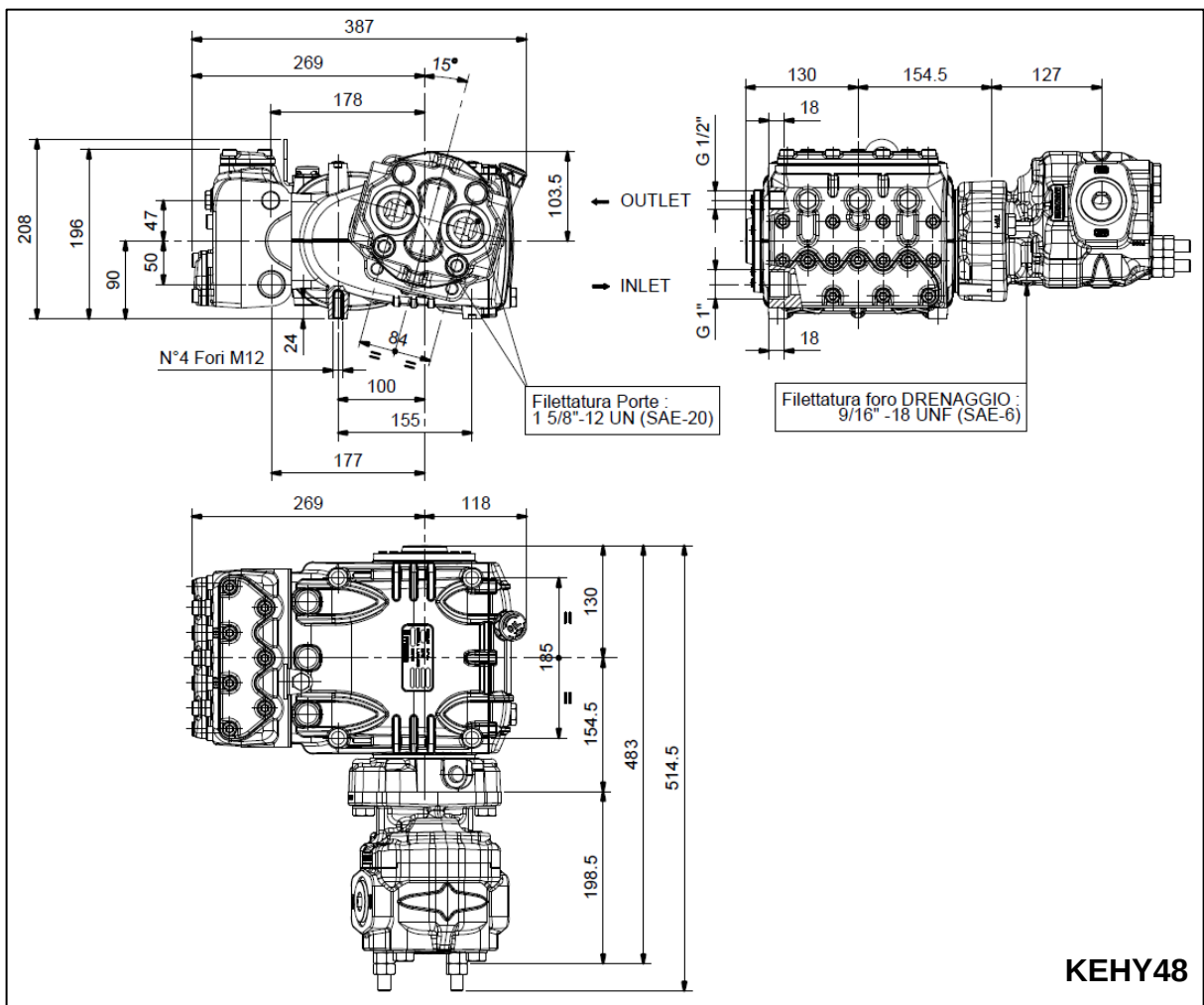
Pump Series

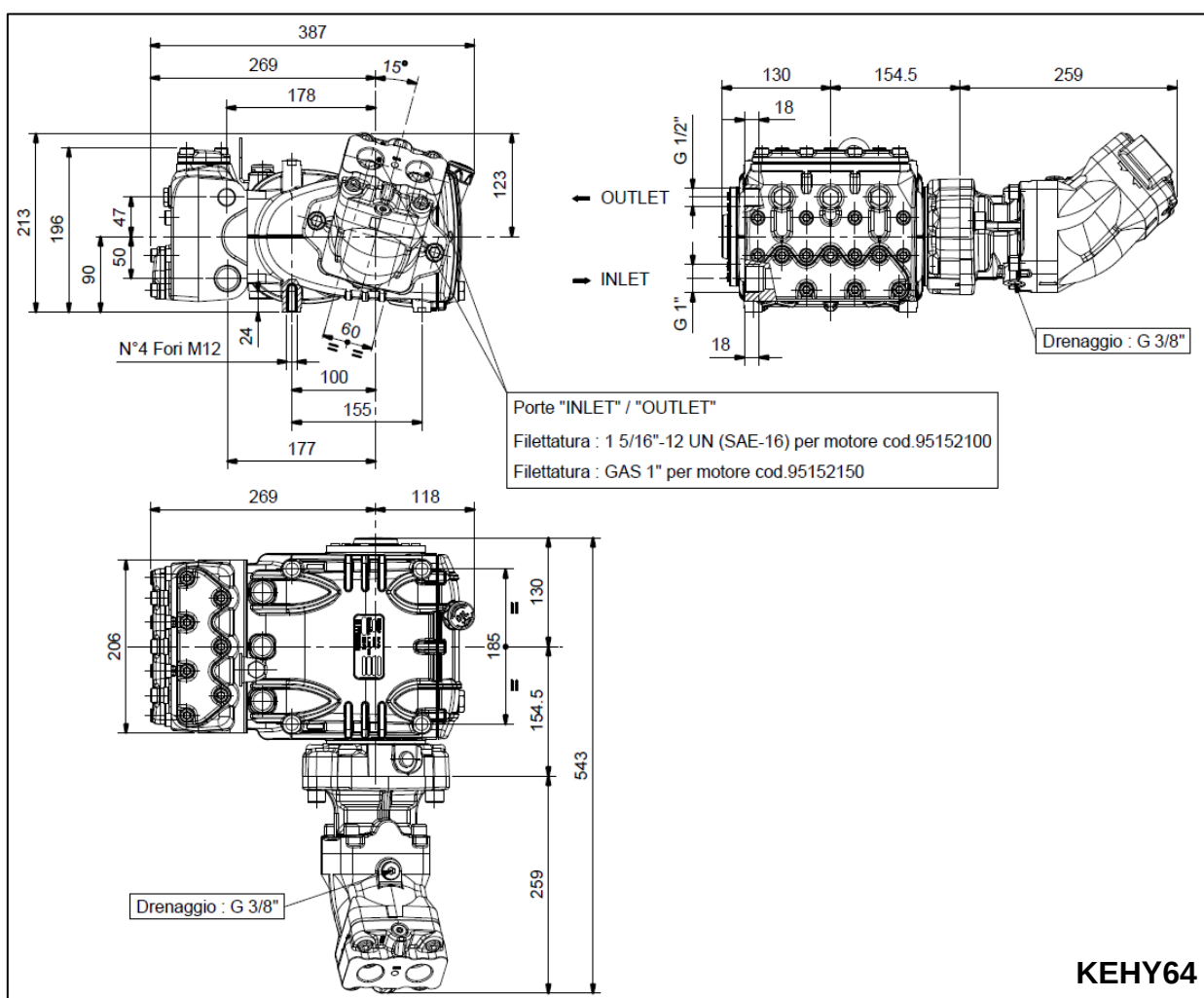
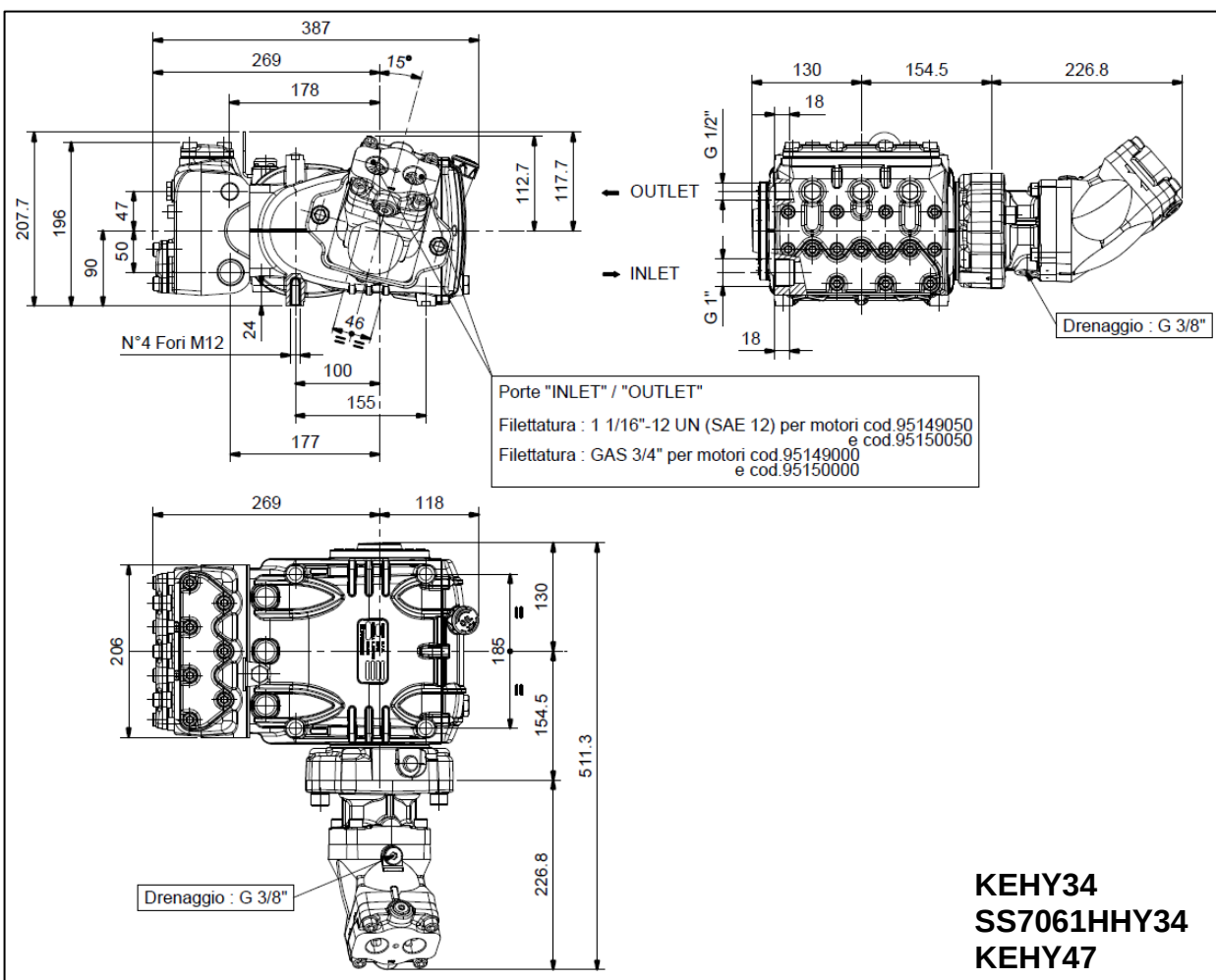
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KE / SS70 Series

POMPA ACQUA / WATER PUMP				Δp motore max / motor Δp max [bar]					
Modello	Portata	Pressione	GIRI	HYPACK44	HYPACK48	HYPACK53	HYPACK34	HYPACK47	HYPACK64
Model	Flow [l/min]	Pressure [bar]	[rpm]	95112000 GAS 44,6 cc/giro	95115000 SAE 48 cc/giro	95115800 GAS 53 cc/giro	95149050 SAE 95149000 GAS 34 cc/giro	95150050 SAE 95150000 GAS 47,1 cc/giro	95152100 SAE 95152150 GAS 64,1 cc/giro
KE20	30	300	1450	175	165	150	230	170	125
KE22	37	250		180	170	155	240	170	130
KE24	45	210		185	175	155	245	175	130
KE28H	61	150		180	170	150	235	170	125
SS7061H	61	150					235		
KE30H	70	130		180	165	150	235	170	125
KE36H	100	100		195	185	165	260	185	135
Peso a secco / Weight without oil [Kg]				45	57	46	48	48	52
Tipo / Type				GEAR			PISTON		



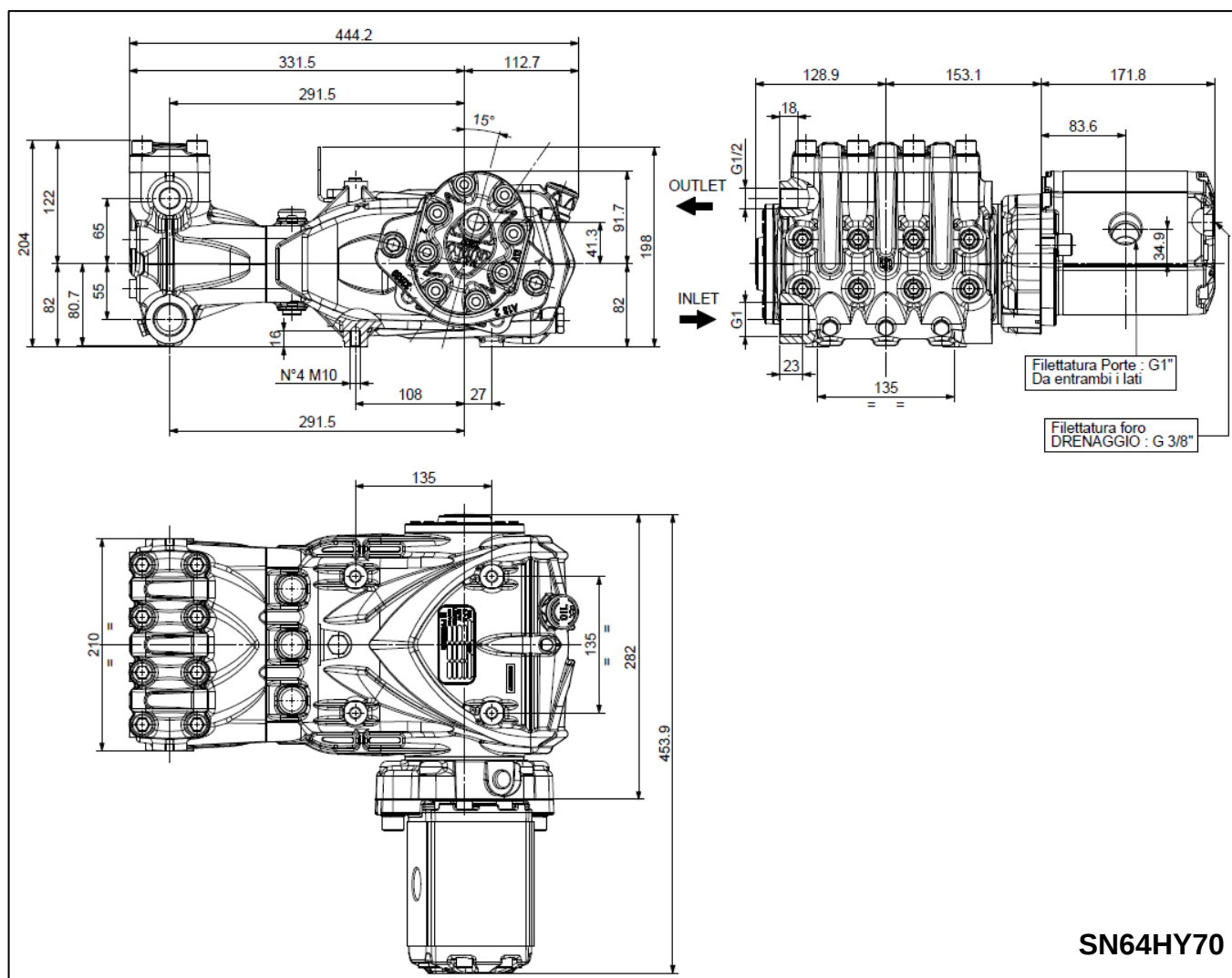


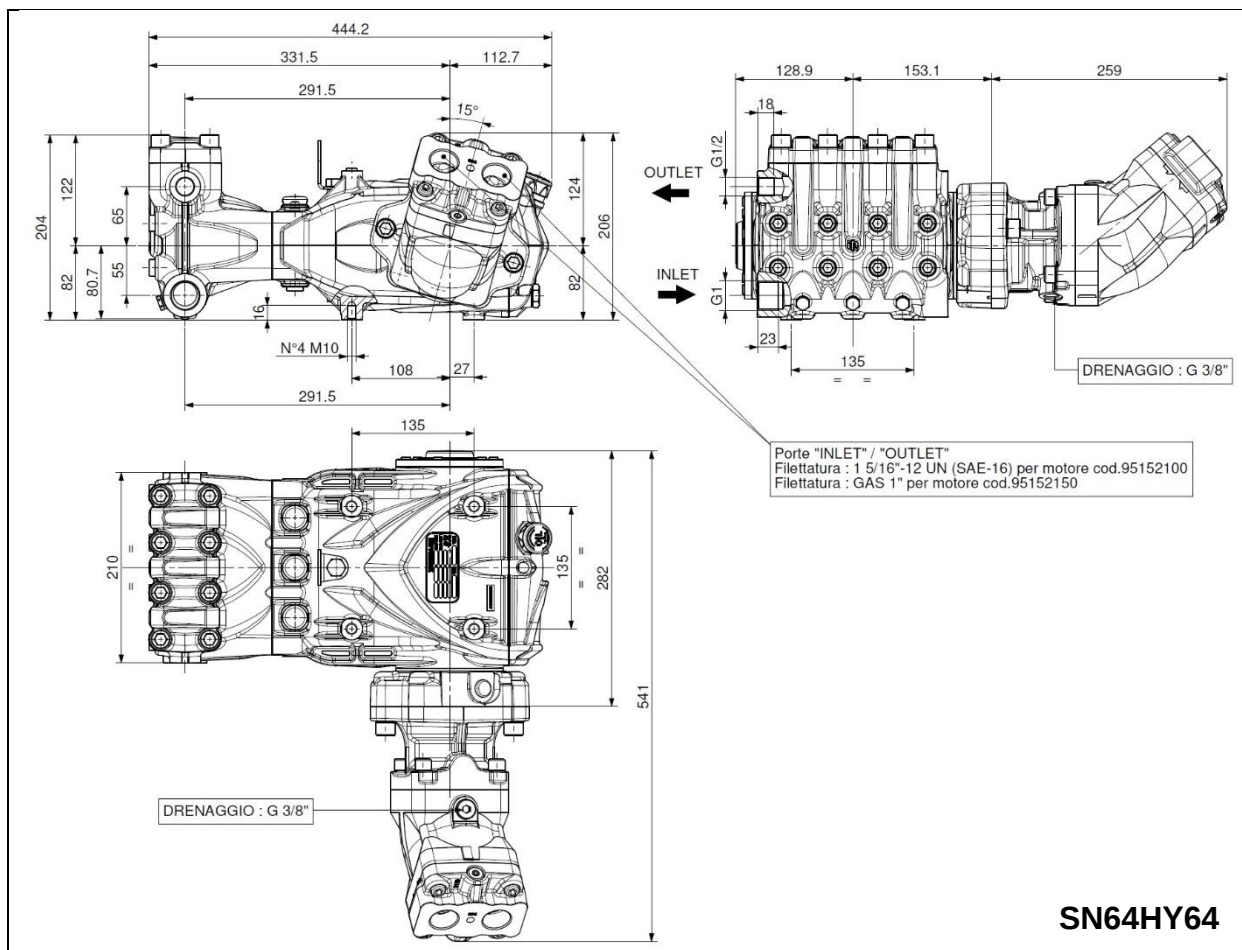


EV Series

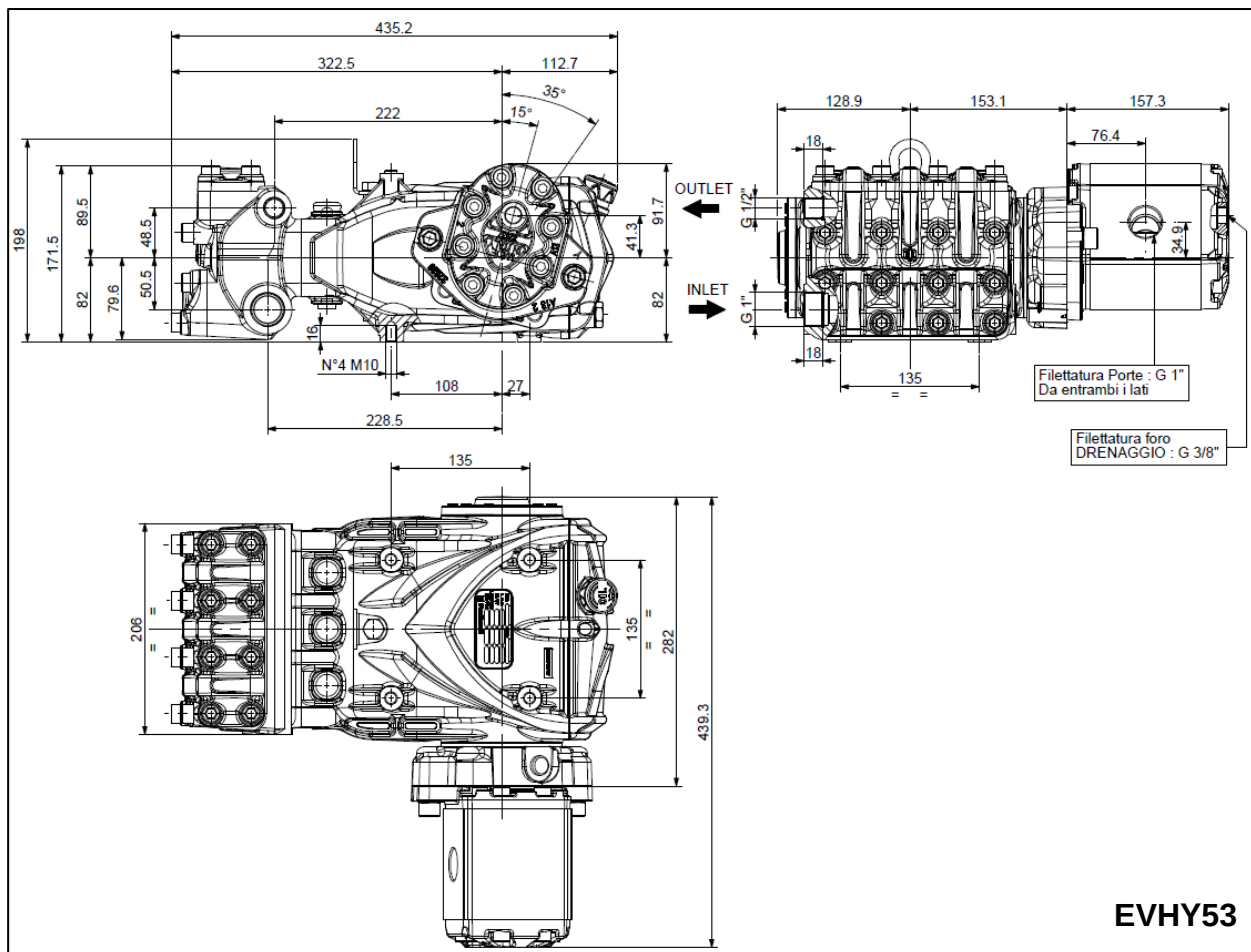
	POMPA ACQUA / WATER PUMP				Δp motore max / motor Δp max [bar]					
	Modello	Portata	Pressione	GIRI	HYPACK53	HYPACK62	HYPACK70	HYPACK34	HYPACK47	HYPACK64
	Model	Flow [l/min]	Pressure [bar]	[rpm]	95115800 GAS 53 cc/giro	95116000 GAS 62,7 cc/giro	95118000 GAS 70,5 cc/giro	95149050 SAE 95149000 GAS 34 cc/giro	95150050 SAE 95150000 GAS 47,1 cc/giro	95152100 SAE 95152150 GAS 64,1 cc/giro
HP	SN6416	31 / 37	400	1450 / 1750			155			170
	SN6418	39 / 47	320				155			170
LP	EV20	48 / 58	230		185					
			240			160				
			260				155	320	235	170
	EV22	58 / 70	190		185					
			200			165				
			207				150	310	225	165
	EV25	75 / 90	150		185					
			155			160				
			170				160			
			200					385		
			207						290	215
	EV26	81 / 98	140		190					
			145			165				
			160				160			
			180					375	270	200
	EV28	94	120		185					
			125			165				
			138				160	335	240	180
		Peso / Weight [Kg]				39	39	40	41	41
	Tipo / Type				GEAR			PISTON		

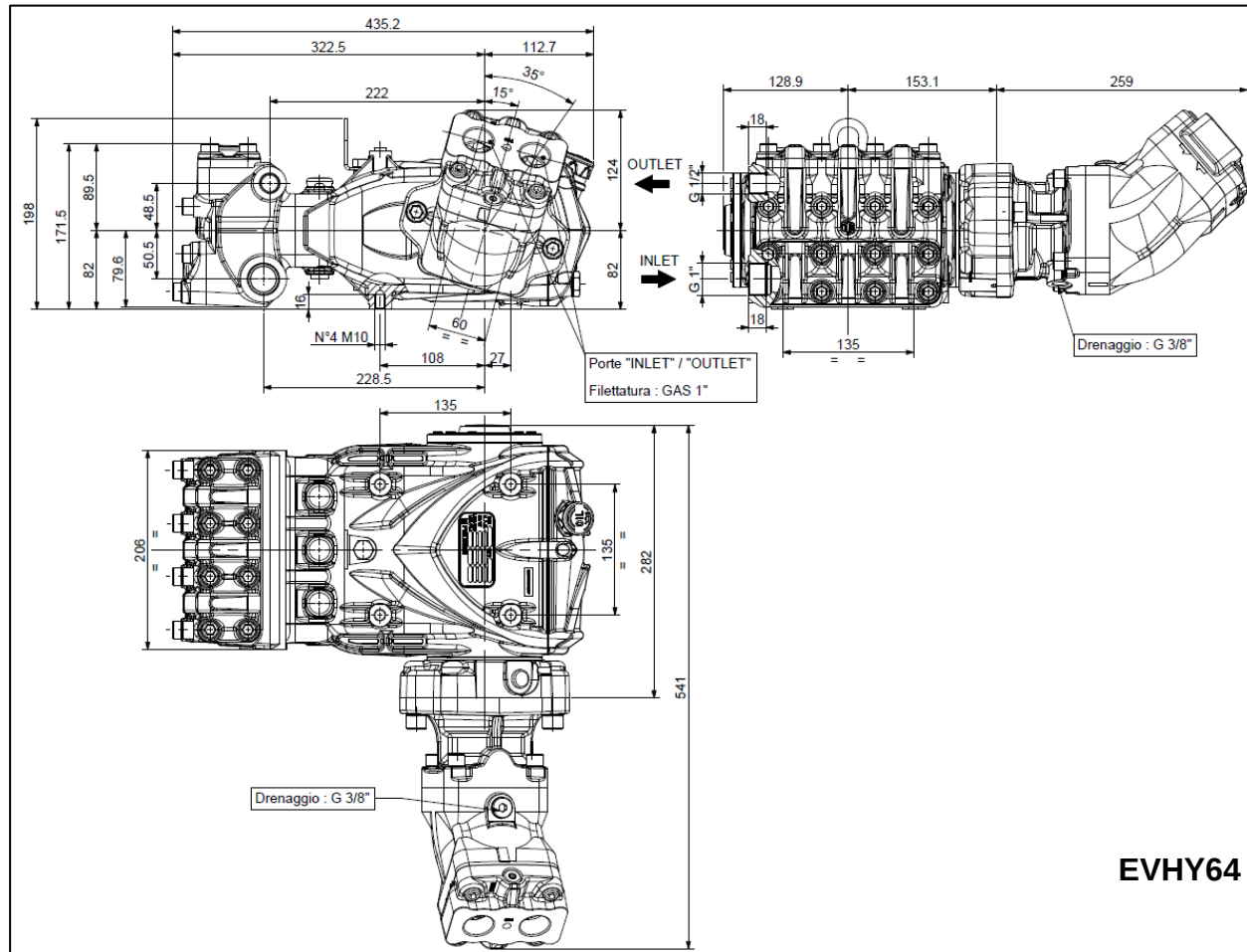
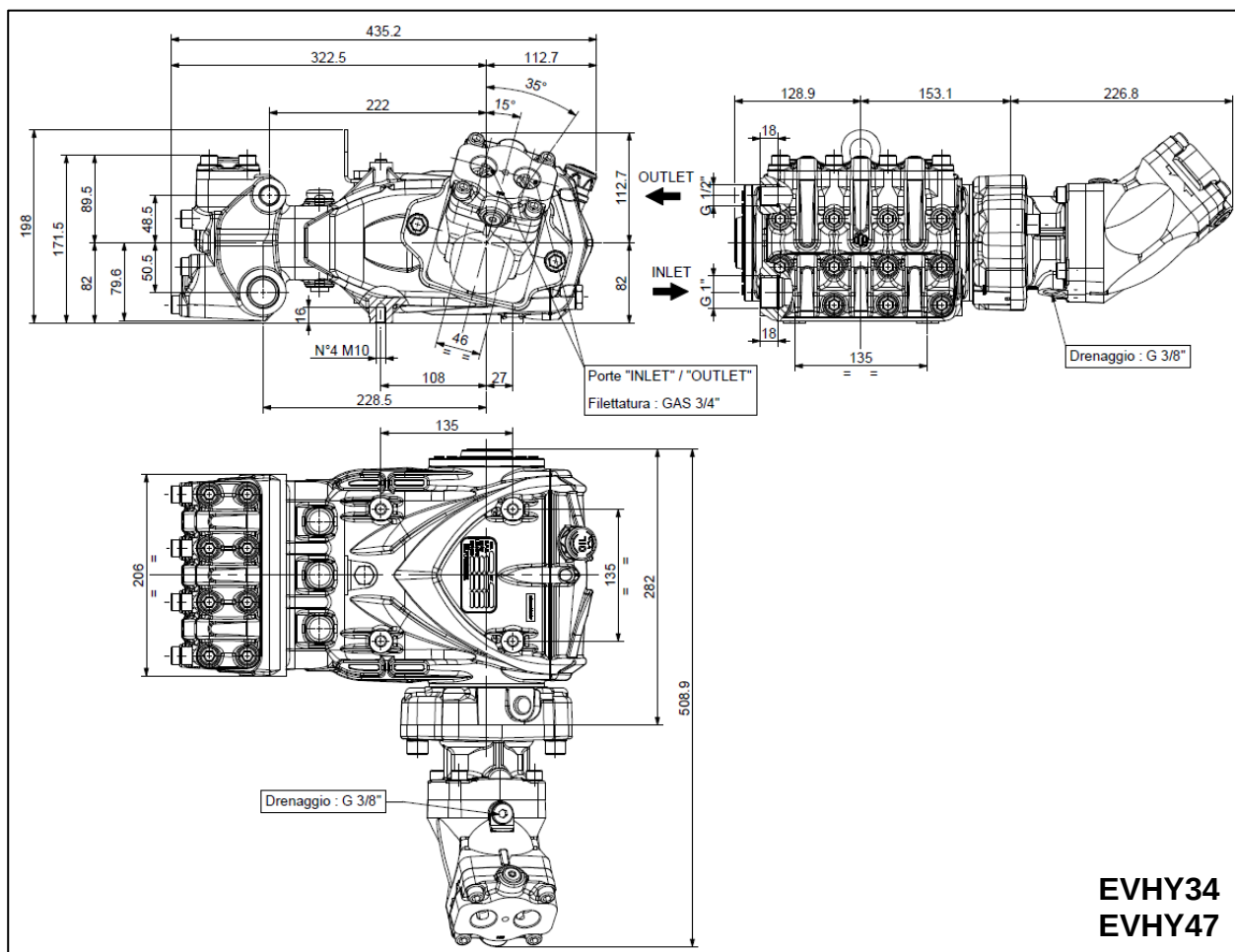
EV HP





EV LP

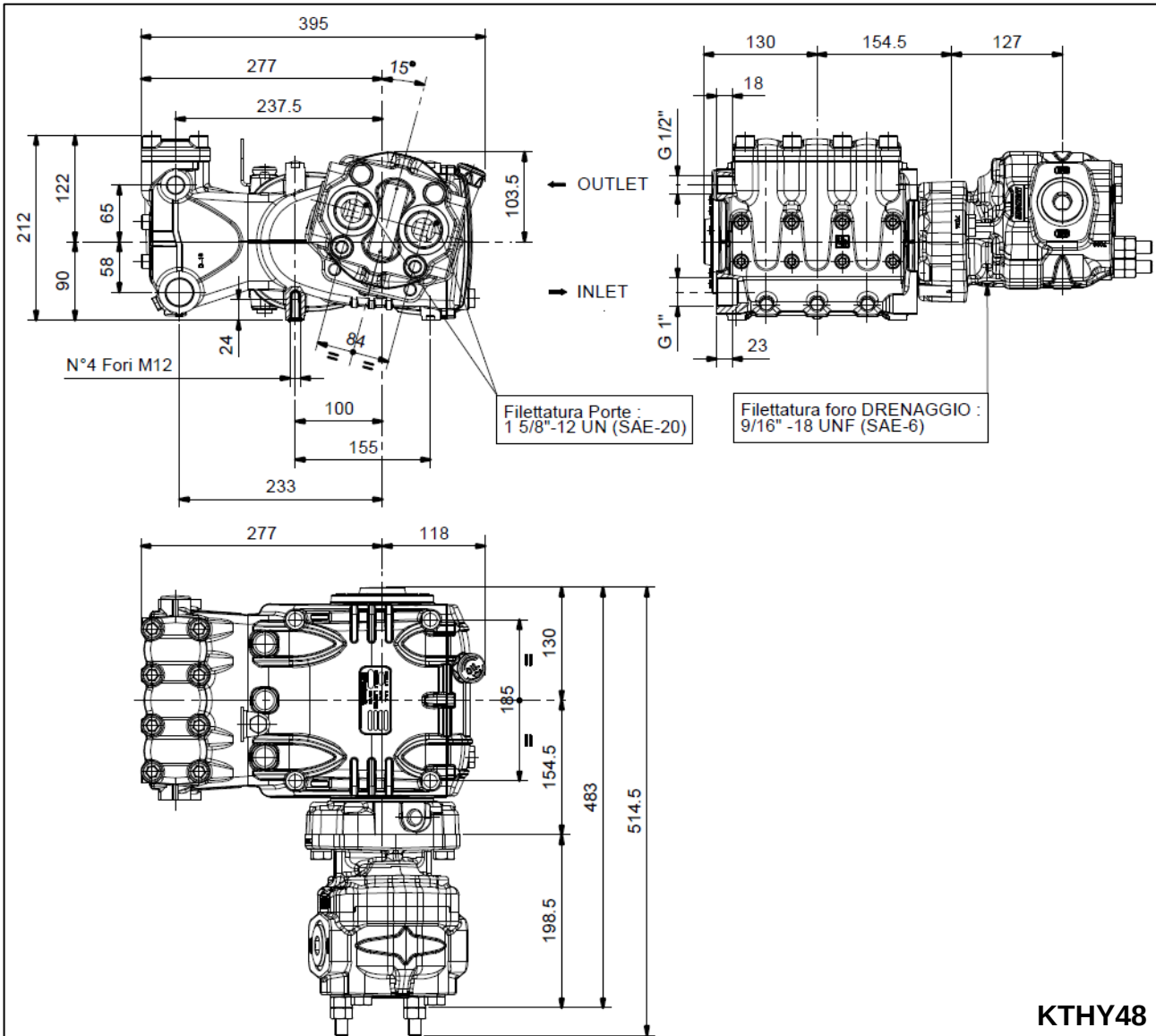
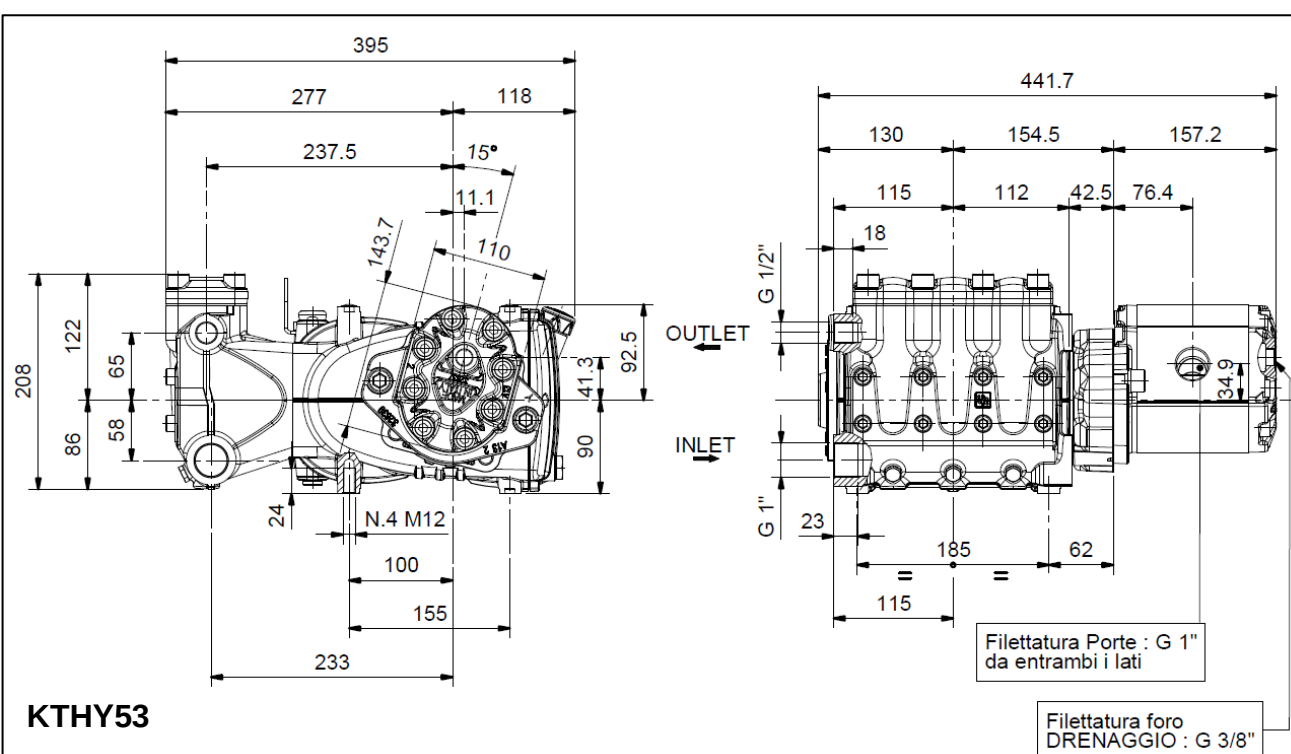




KT / KTR Series

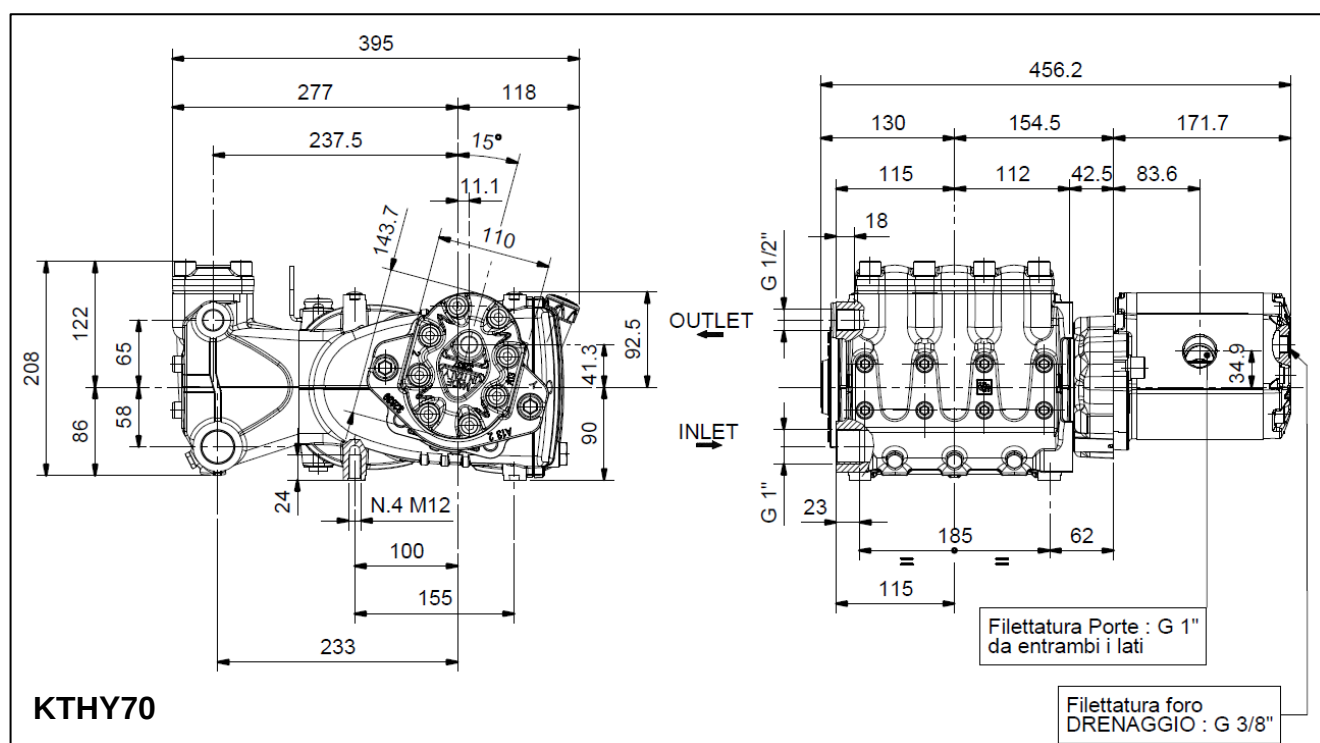
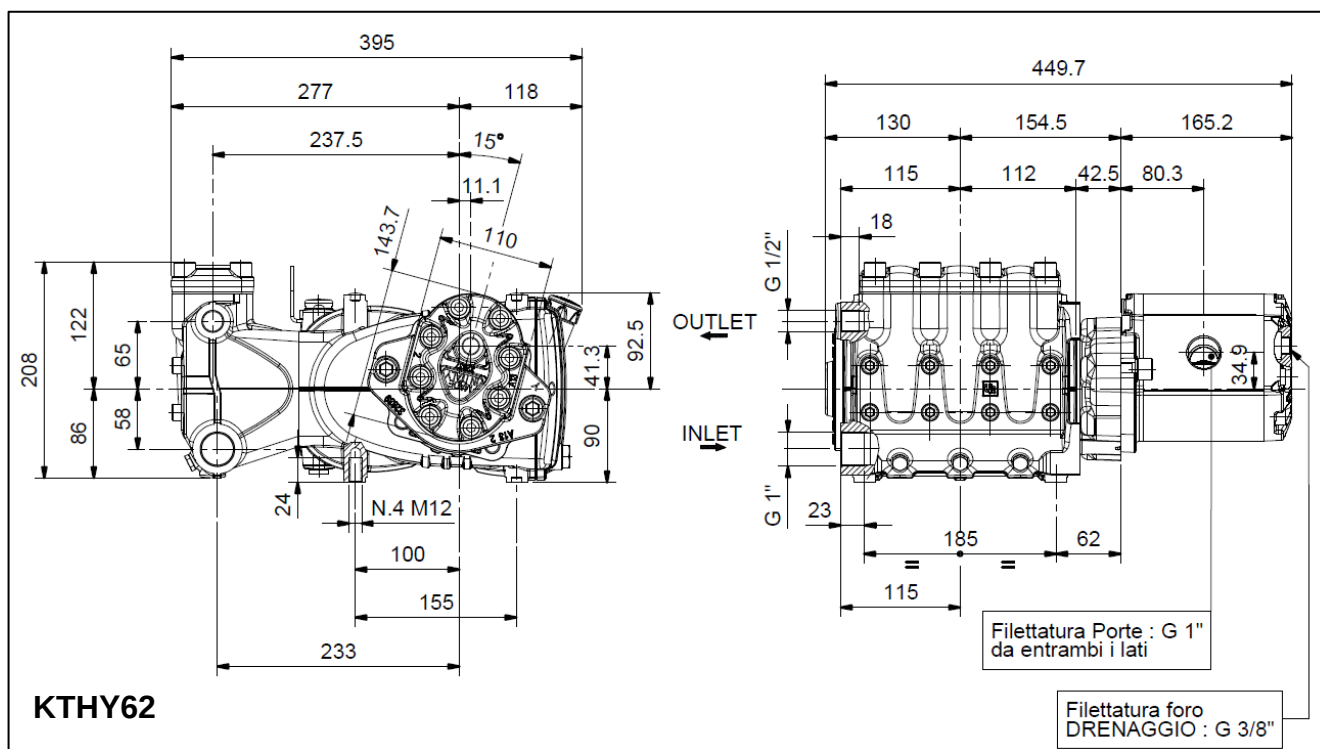
	POMPA ACQUA / WATER PUMP				Δp motore max / motor Δp max [bar]									
	Modello	Portata	Pressione	GIRI	HYPACK44	HYPACK48	HYPACK53	HYPACK62	HYPACK70	HYPACK34	HYPACK47	HYPACK64		
	Model	Flow [l/min]	Pressure [bar]	[rpm]	95115000 SAE 44,6 cc/giro	95115000 SAE 48 cc/giro	95115800 GAS 53 cc/giro	95116000 GAS 62,7 cc/giro	95118000 GAS 70,5 cc/giro	95149050 SAE 95149000 GAS 34 cc/giro	95150050 SAE 95150000 GAS 47,1 cc/giro	95152100 SAE 95152150 GAS 64,1 cc/giro		
HP	KT16	27	500	1750		205	185	155	140	290	210	155		
	KT19	30 / 36	500 / 400	1450 / 1750		275 / 220				385 / 310	280 / 220	205 / 165		
			370				185							
			390					165						
			420 / 400						155 / 150					
	KT20	36 / 43	400 / 320			265 / 210			370 / 295	270 / 210	195 / 155			
			330 / 320				195 / 190	165 / 160	150 / 140					
	KT22	43 / 52	320 / 250			250 / 200			355 / 280	255 / 200	190 / 150			
			275 / 250			195 / 180								
			270 / 250				165 / 150							
280 / 250						150 / 135								
250 / 200					235 / 190			350 / 280	240 / 190	175 / 140				
230 / 200					195 / 170									
LP	KT24	51 / 62	235 / 200					170 / 145	150 / 130					
			180			150								
			250						280	205				
	KT26	60	200 / 175			255 / 225			385 / 335	260 / 225	190 / 165			
			170			195	165							
			175					150						
	KTR28	70 / 84	200 / 175								190 / 165			
			180 / 140			265 / 205			370 / 305	270 / 210	195 / 155			
			145 / 140			190 / 185	165 / 155							
	KT30	80 / 96	150 / 140					150 / 140						
			150		250			375	255	185				
			130			195		145						
	KT32	91	135				170							
			150		285					185				
			150		255 / 265			375 / 390	255 / 265	190 / 195				
	KTR32	91	120 / 125	1450 / 1580										
			100			190	160							
			105					150						
	KT34	103	100			260			390	265	195			
			80			190								
			85				170	150						
	KT36	115 / 125	70		195									
			Peso / Weight [Kg]				46	61	50	52	53	51	52	56
			Tipo / Type				GEAR					PISTON		

KT HP

**KTHY48****KTHY53**

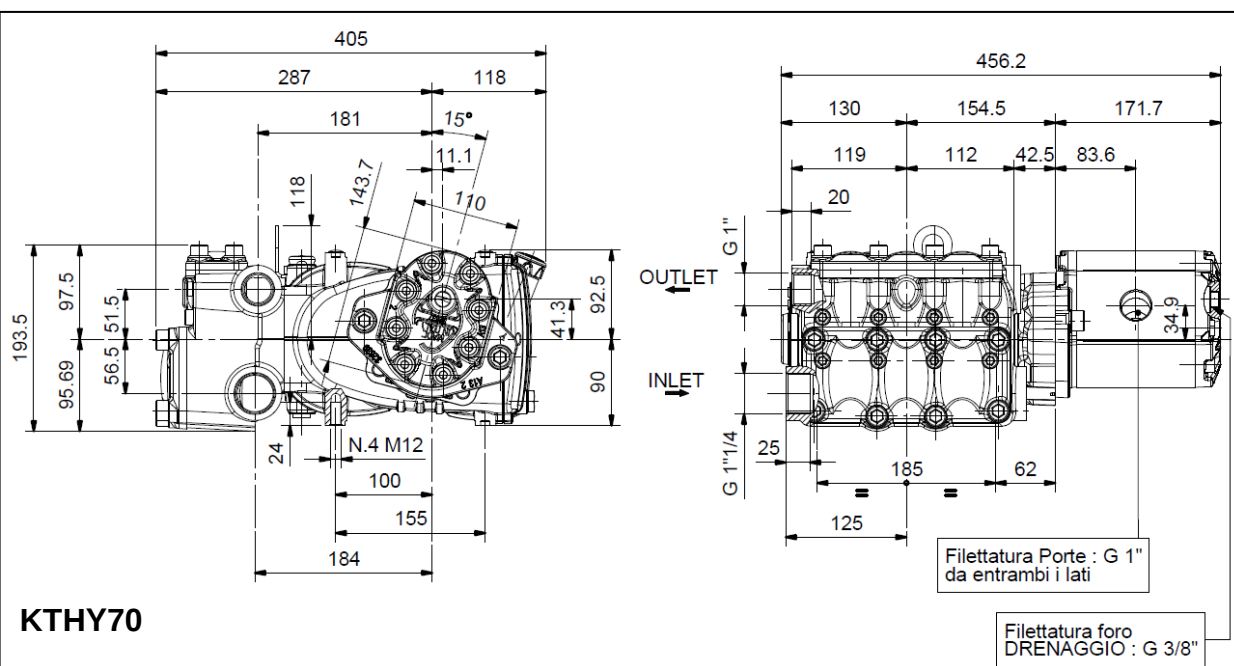
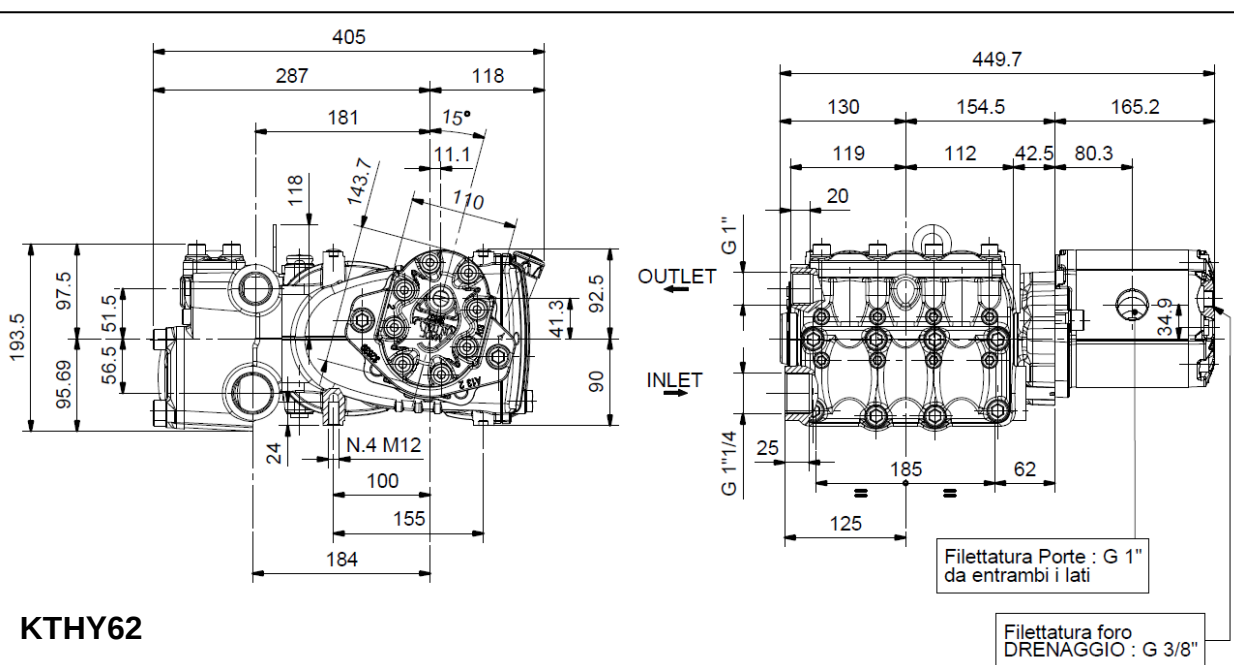
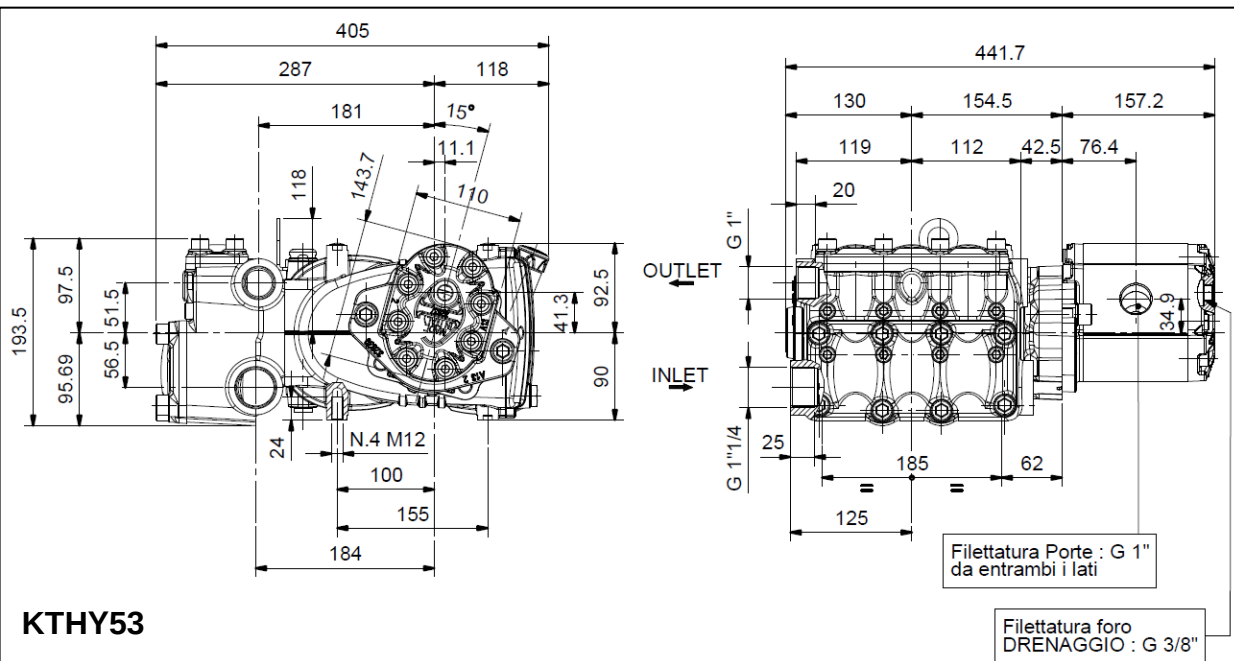
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da entrambi i lati

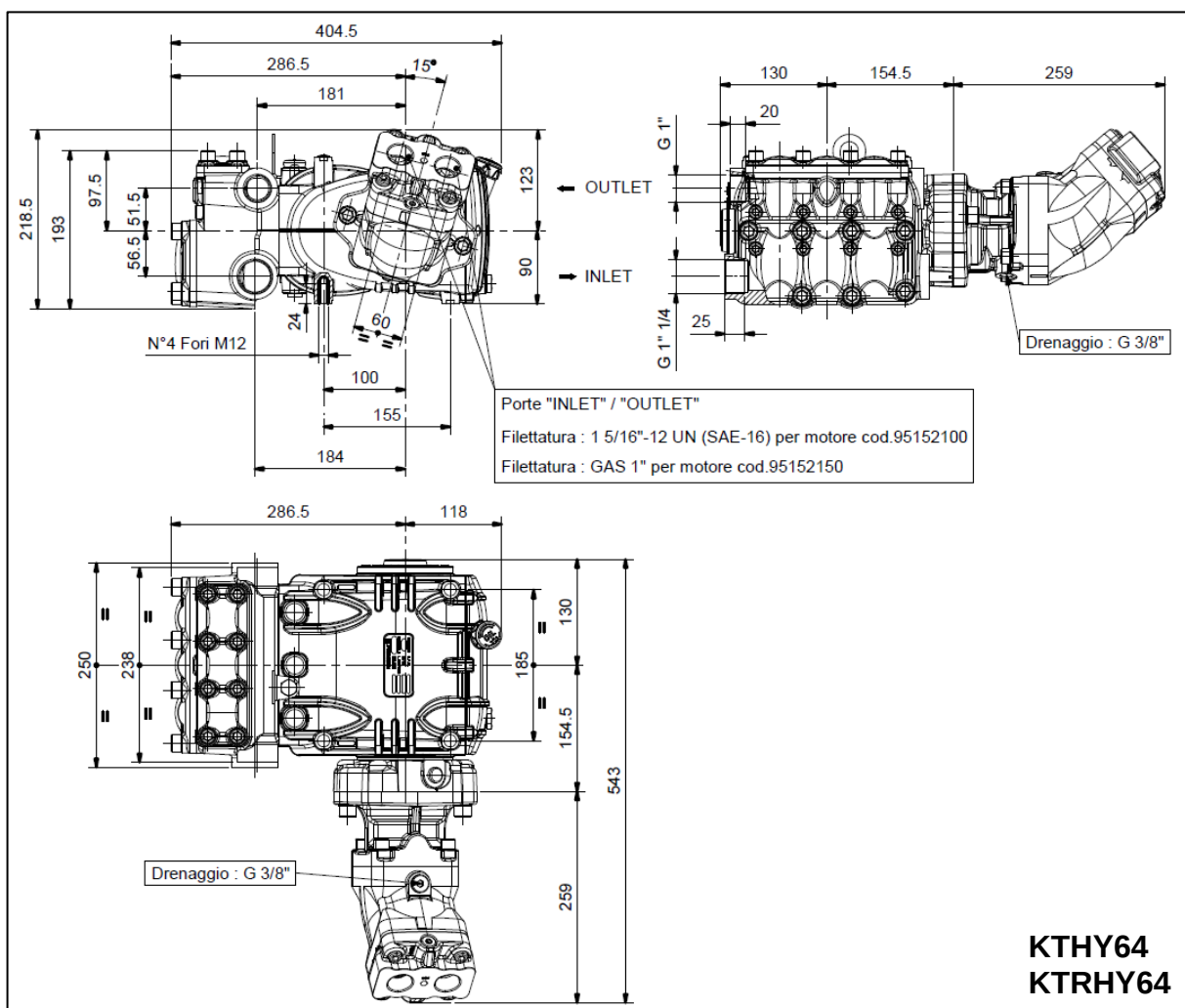
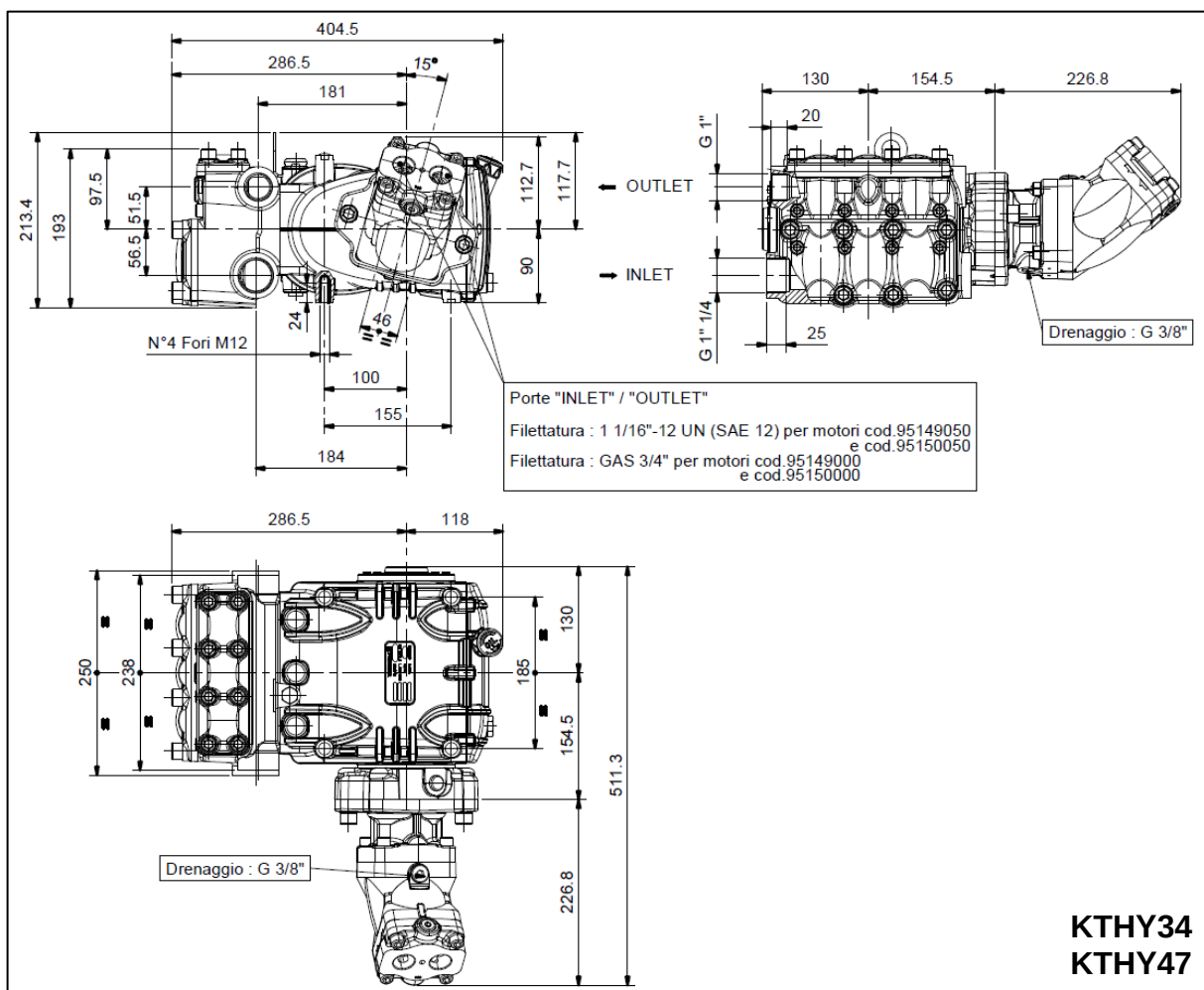
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KT LP

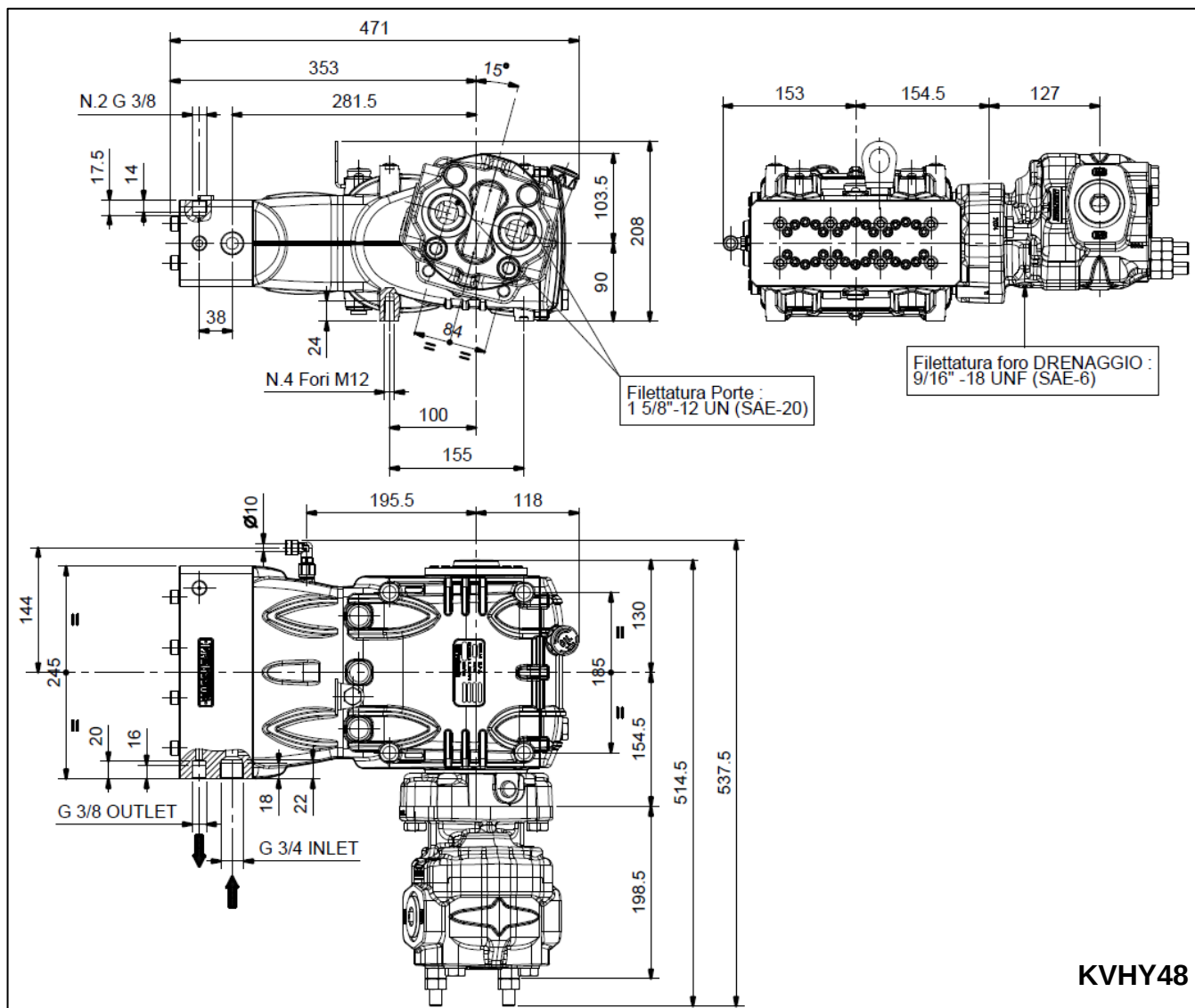


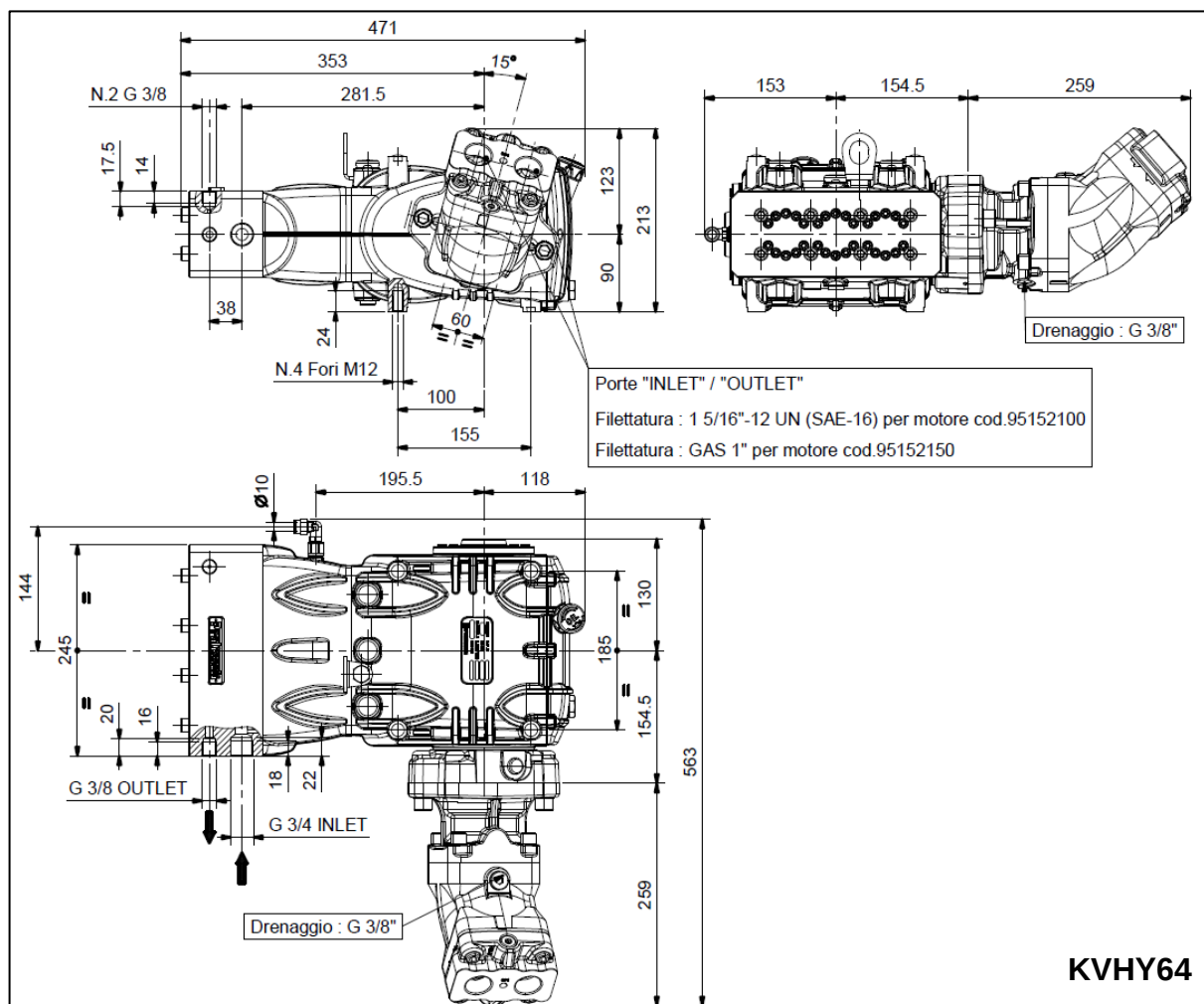
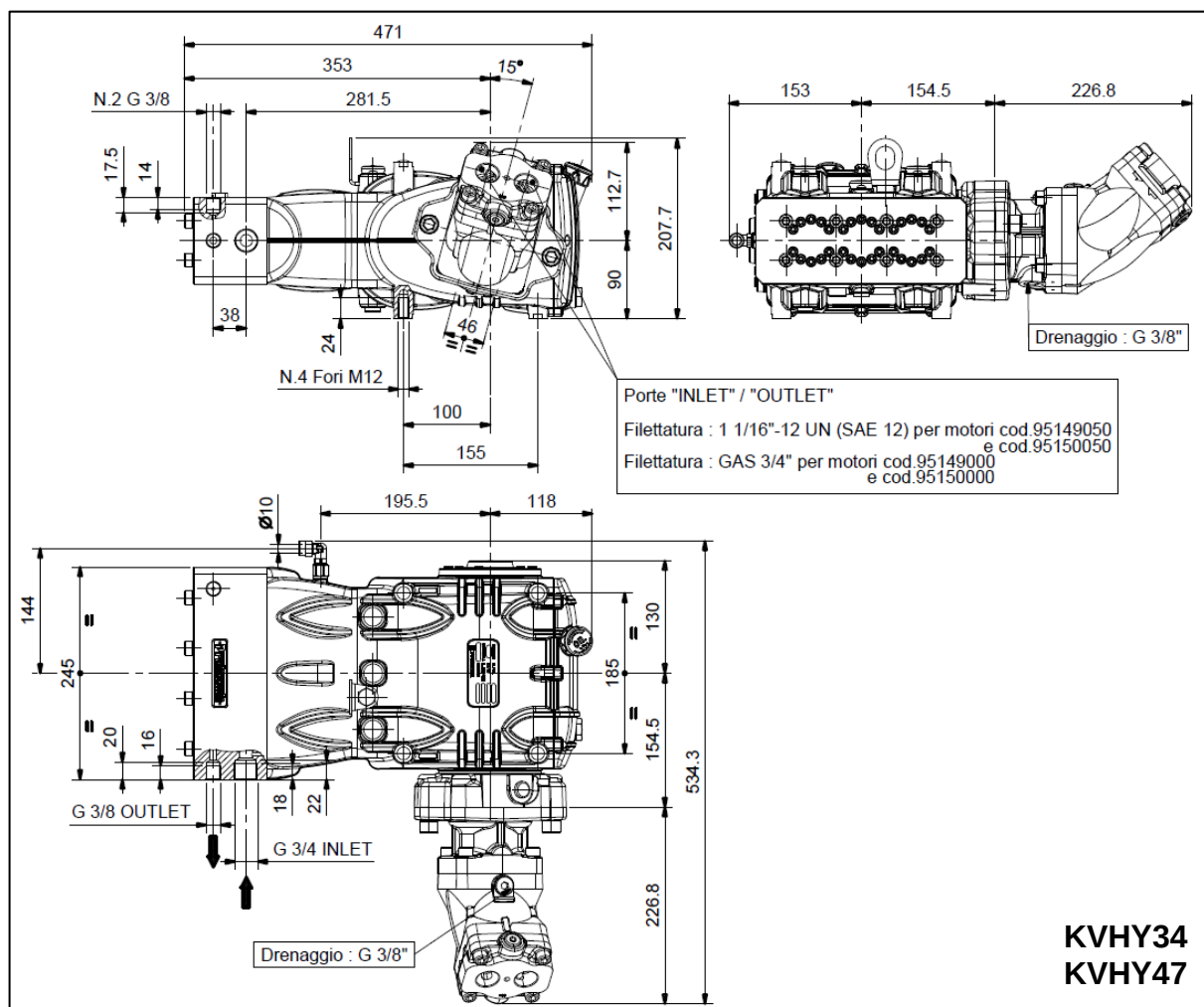




KV Series

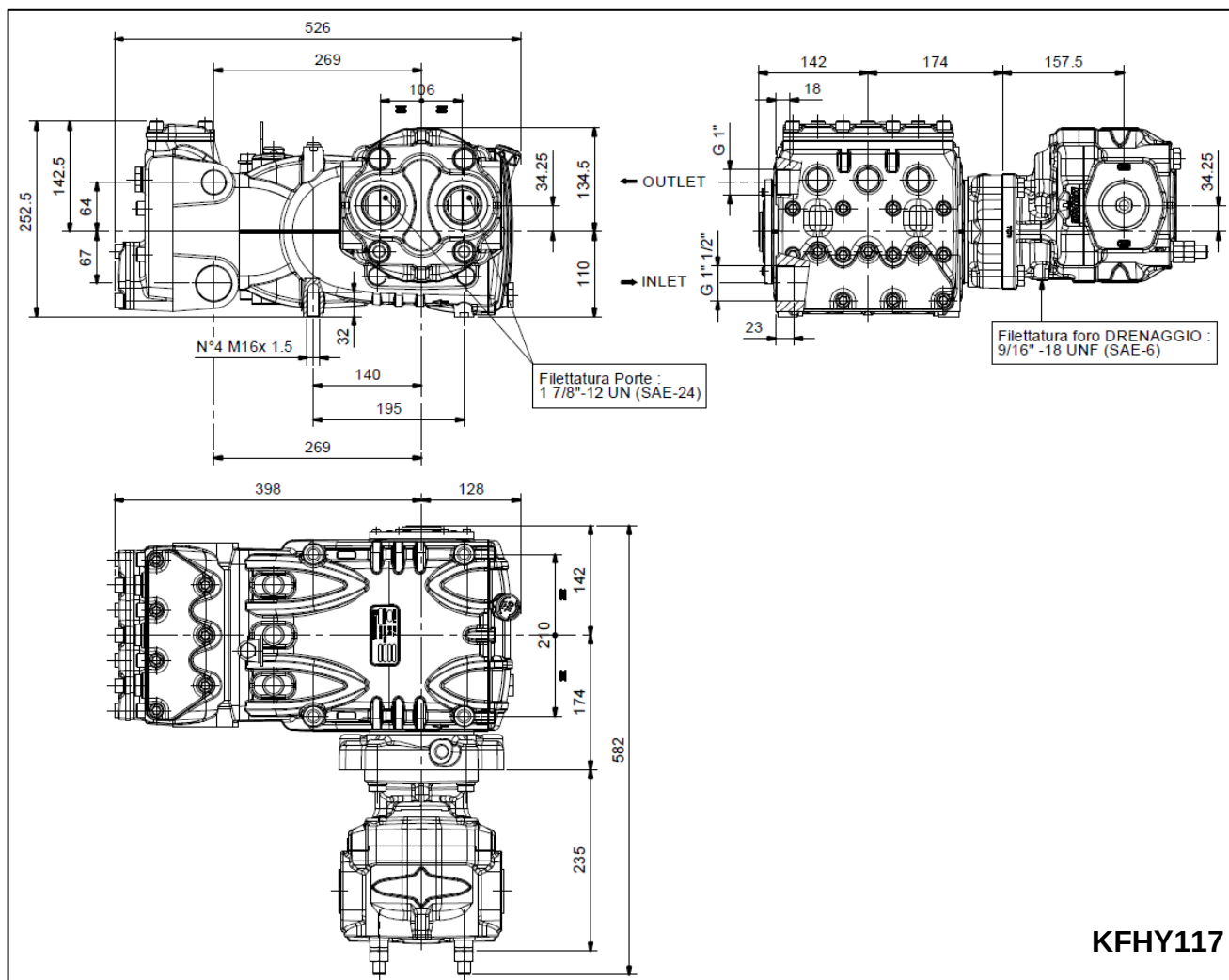
POMPA ACQUA / WATER PUMP				Δp motore max / motor Δp max [bar]			
Modello	Portata	Pressione	GIRI	HYPACK48	HYPACK34	HYPACK47	HYPACK64
Model	Flow [l/min]	Pressure [bar]	[rpm]	95115000 SAE 48 cc/giro	95149050 SAE 95149000 GAS 34 cc/giro	95150050 SAE 95150000 GAS 47,1 cc/giro	95152100 SAE 95152150 GAS 64,1 cc/giro
KV12	12,8 / 15,4	1100	1450 / 1750	260	360	260	195
KV14	17,4 / 21	800		255	360	260	190
Peso a secco / Weight without oil			[Kg]	50	41	41	45
Tipo / Type				GEAR	PISTON		

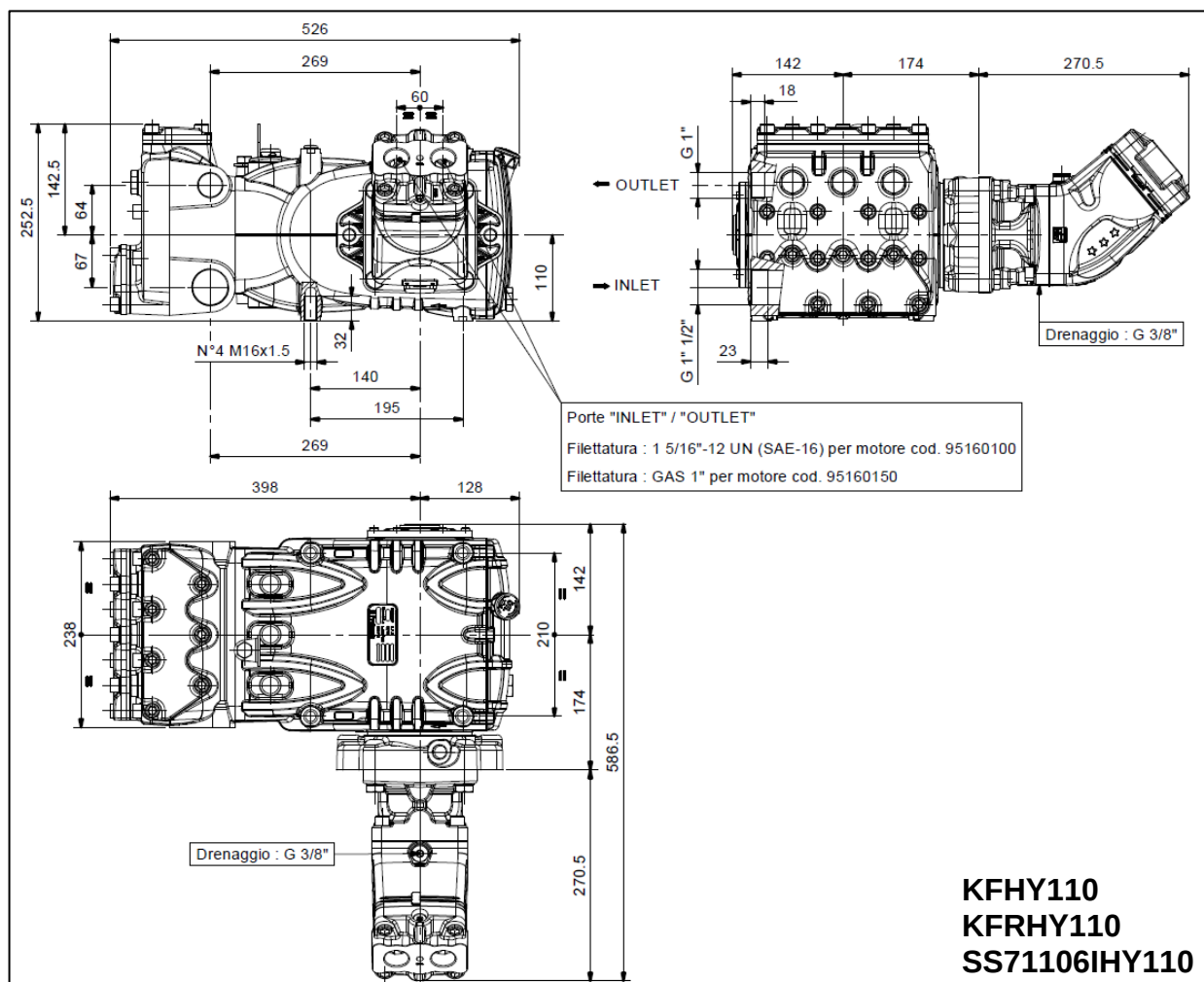
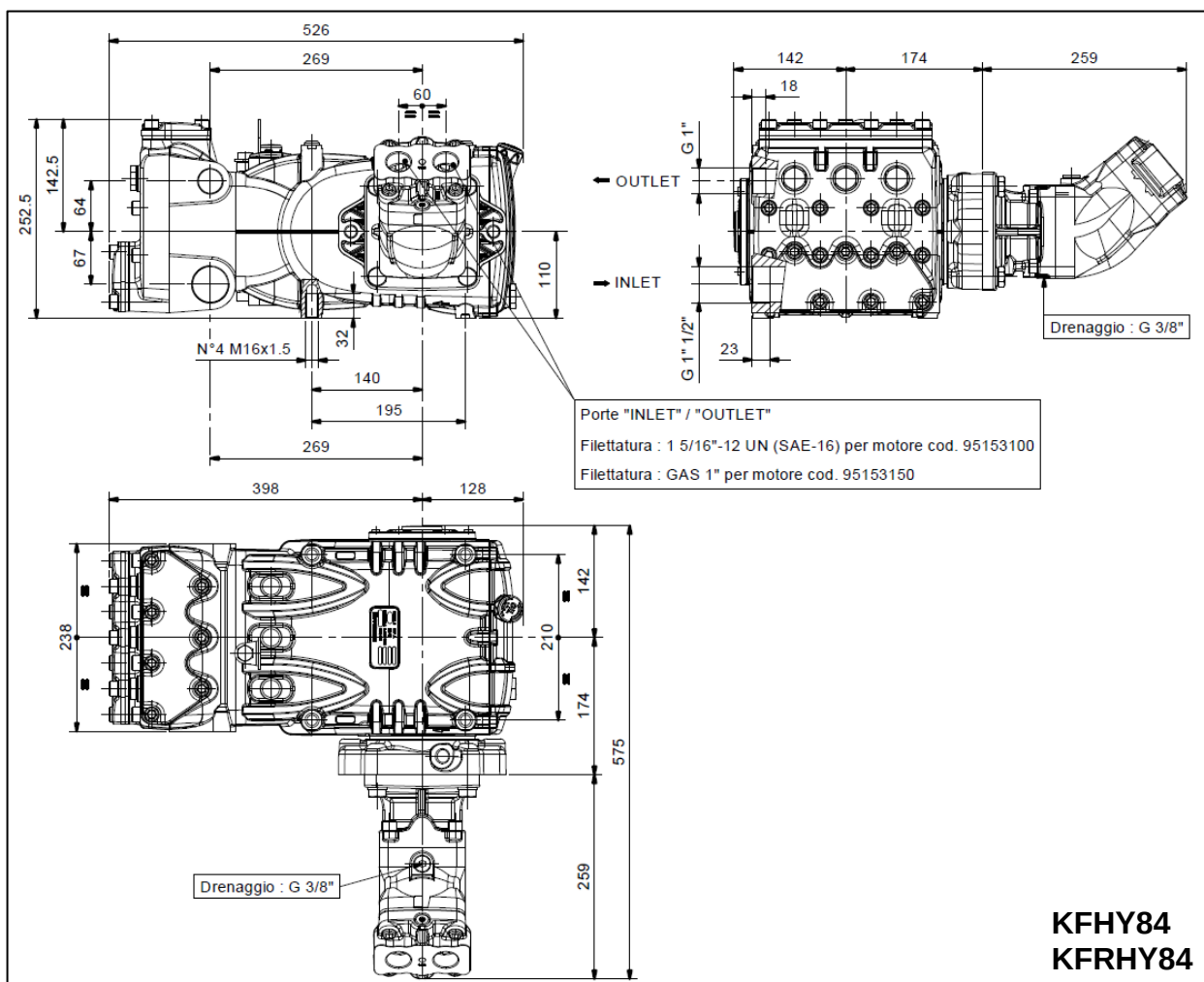


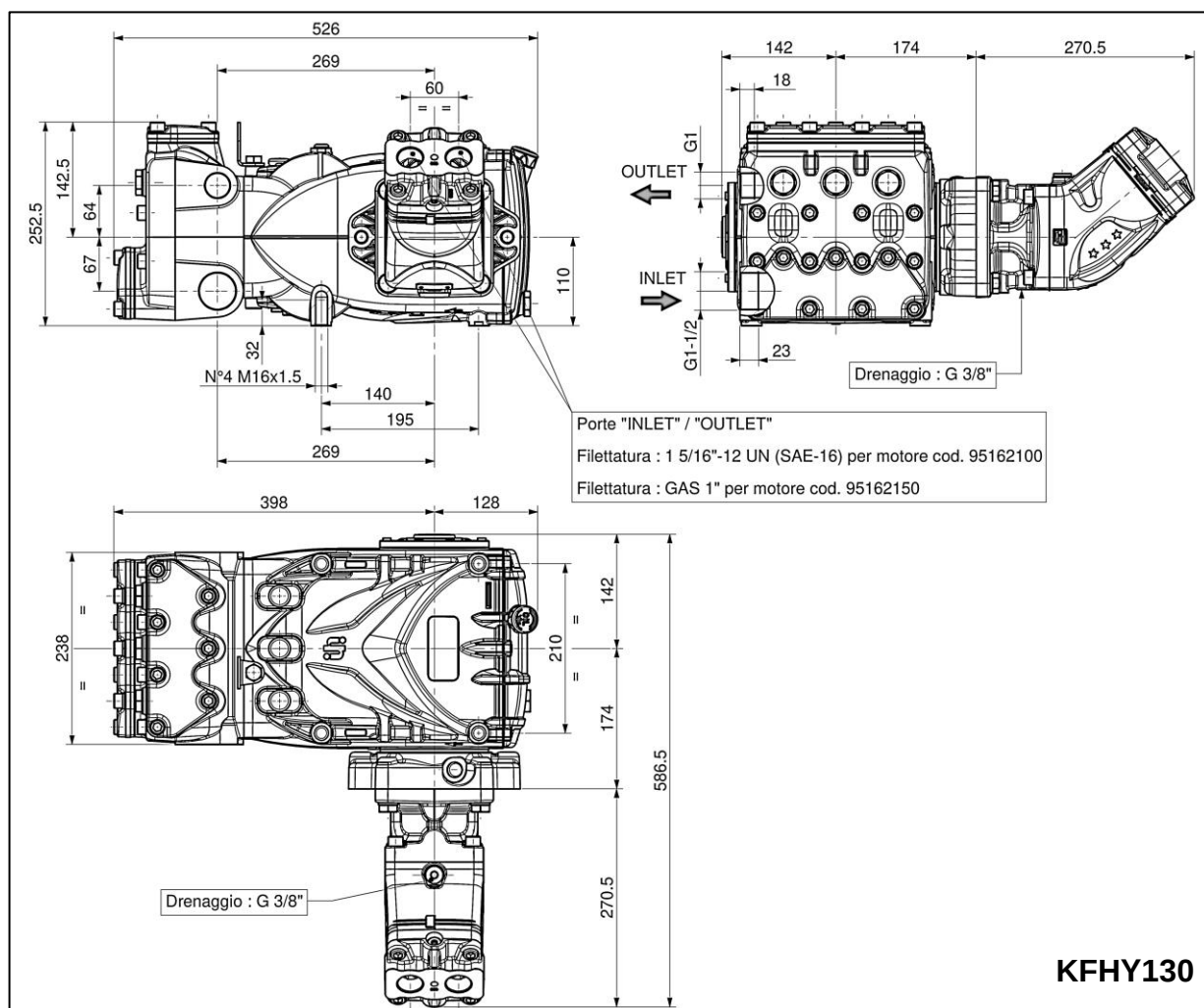
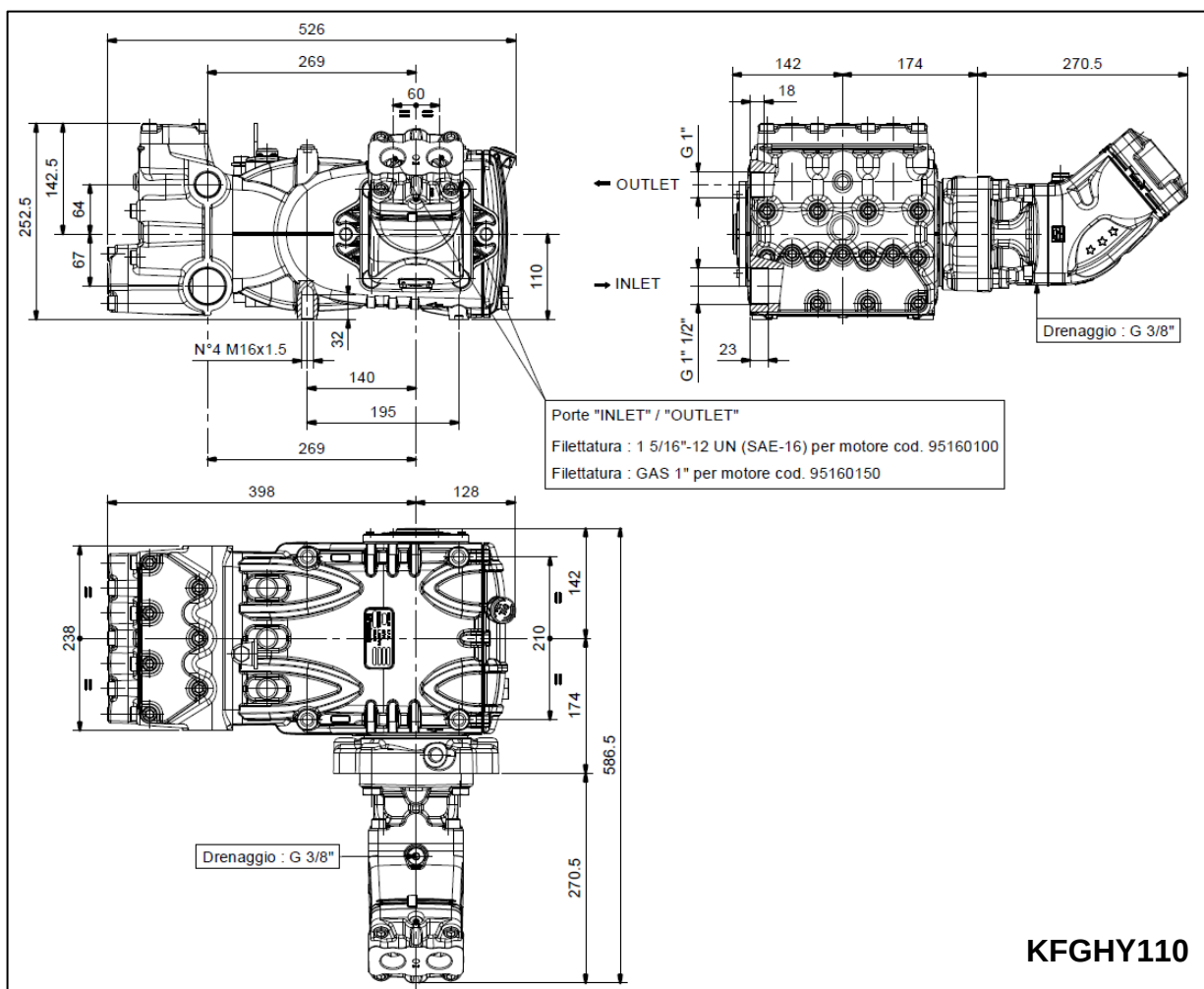


KF / KFR / KFG / SS71 Series

POMPA ACQUA / WATER PUMP				Δp motore max / motor Δp max [bar]			
Modello	Portata	Pressione	GIRI	HYPACK117	HYPACK84	HYPACK110	HYPACK130
Model	Flow [l/min]	Pressure [bar]	[rpm]	95129000 SAE 117,3 cc/giro	95153100 SAE 95153150 GAS 84 cc/giro	95160100 SAE 95160150 GAS 110 cc/giro	95162100 SAE 95162150 GAS 130 cc/giro
KF28	93	210	1000	210	295	230	190
KFR28	93	210			295		
KF30	106	200		230	320	250	210
SS71106I	106	200				250	
KF32	120	180		235	325	255	
KF36	153	130		215	300	235	
KFR36	153	130			300		
KFG36	153	130	900			235	
KF40	170	110		225	315	245	
KFR40	170	110				245	
Peso / Weight [Kg]				107	86	86	86
Tipo / Type				GEAR	PISTON		

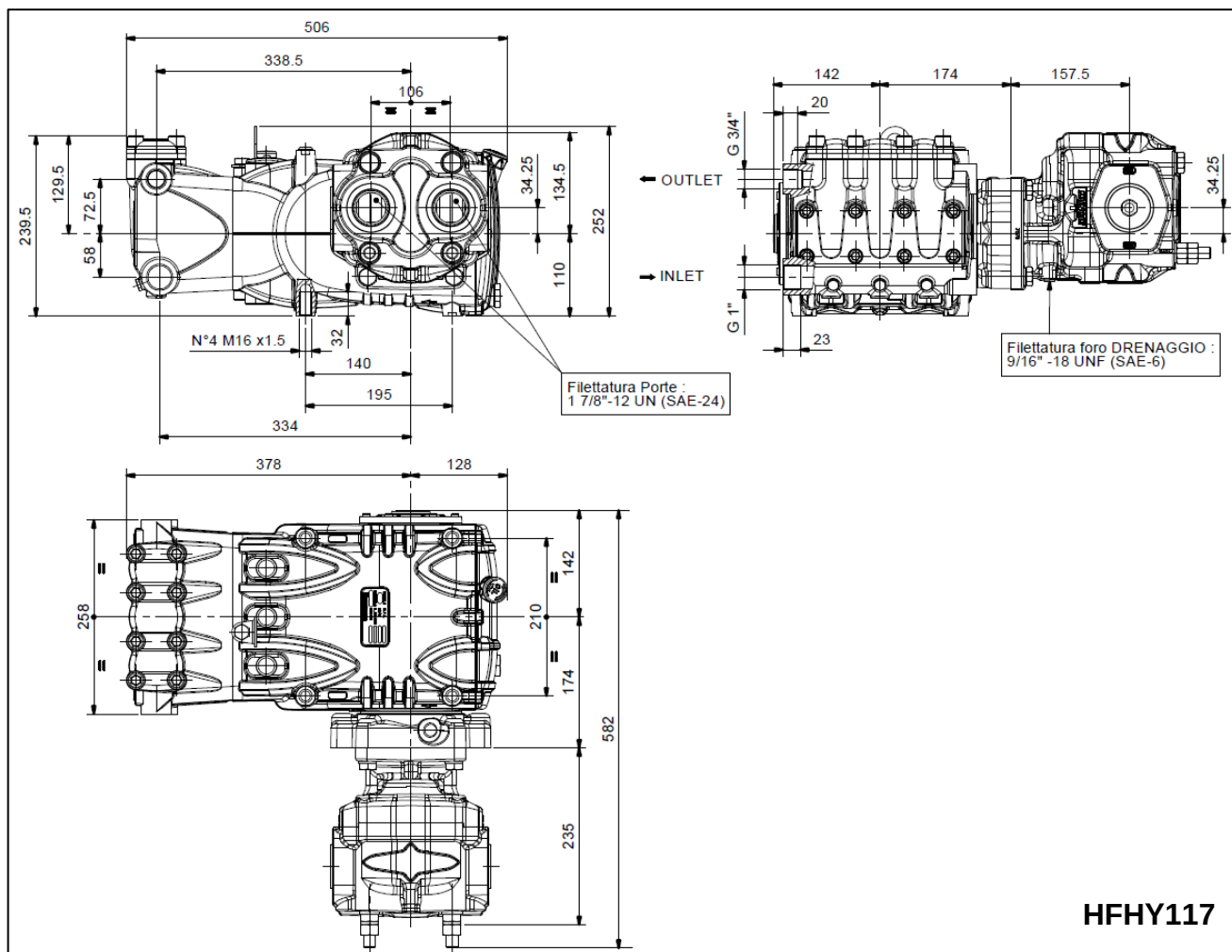


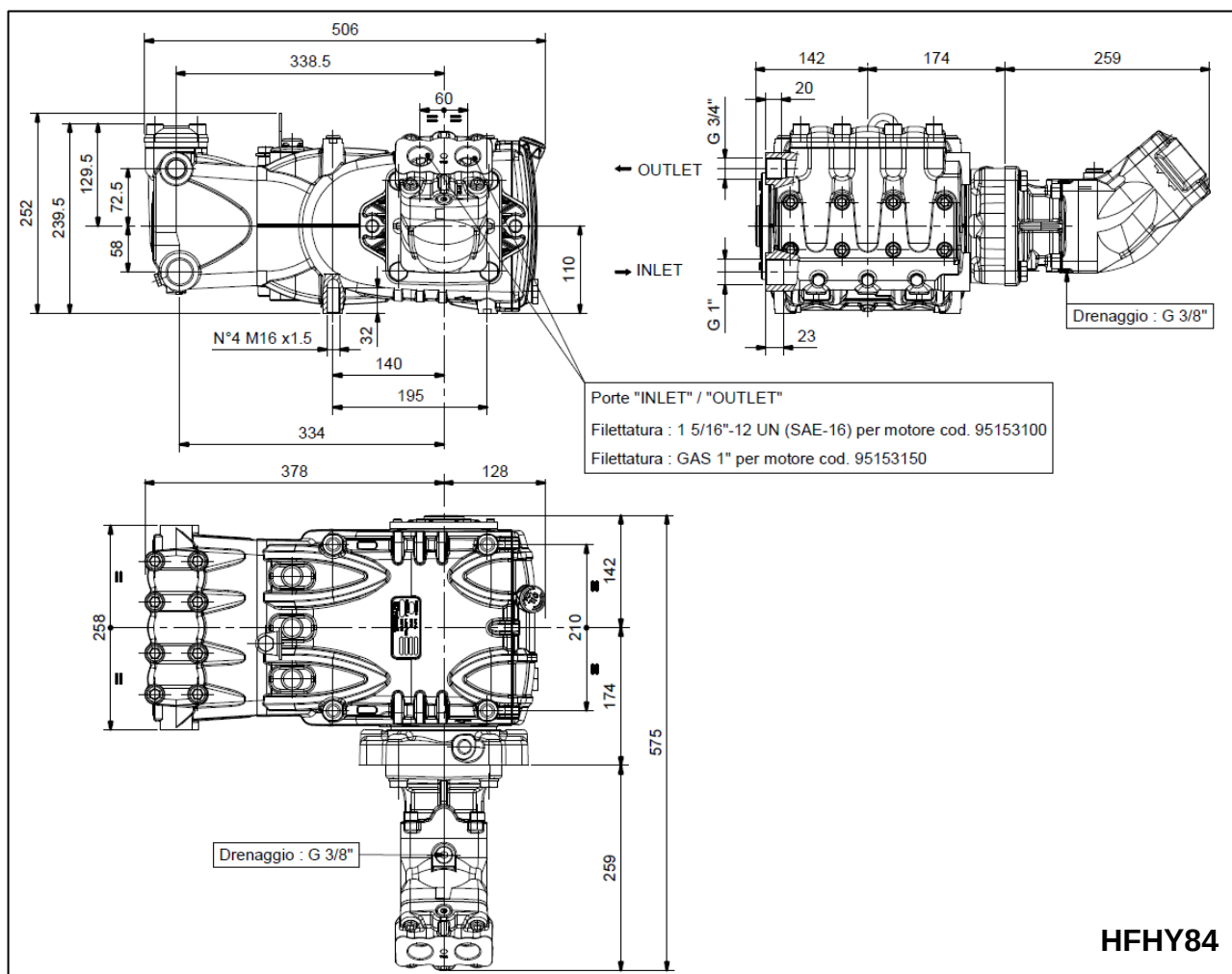




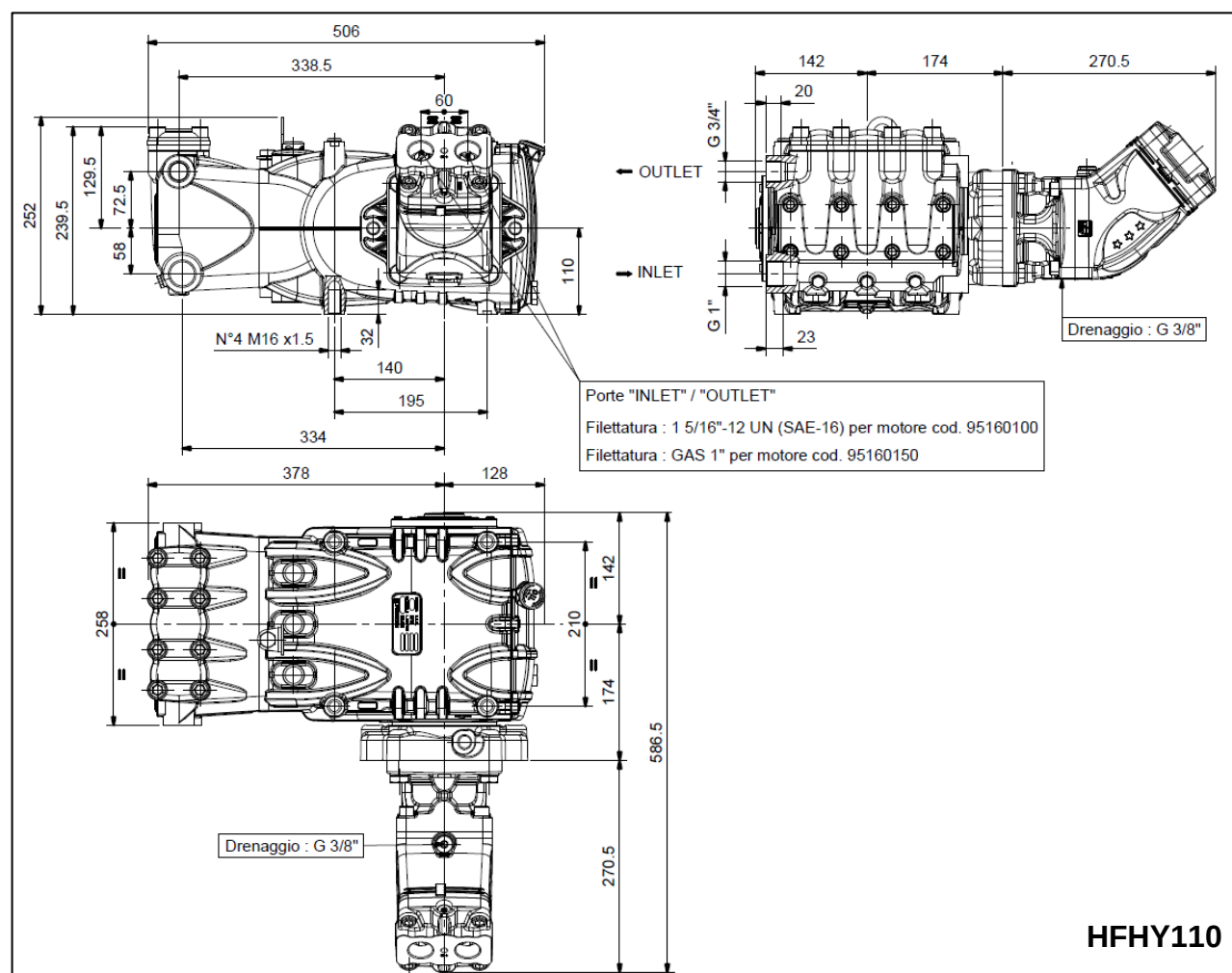
HF Series

POMPA ACQUA / WATER PUMP				Δp motore max / motor Δp max [bar]		
Modello	Portata	Pressione	GIRI	HYPACK117	HYPACK84	HYPACK110
Model	Flow [l/min]	Pressure [bar]	[rpm]	95129000 SAE 117,3 cc/giro	95153100 SAE 95153150 GAS 84 cc/giro	95160100 SAE 95160150 GAS 110 cc/giro
HF18	30 / 38	600 / 500	800 / 1000	245 / 205	340 / 285	265 / 225
HF20	47	400	1000	205	285	220
HF22	57	350		215	300	235
HF25	73	280		220	310	240
Peso a secco / Weight without oil			[Kg]	98	77	81
Tipo / Type				GEAR	PISTON	





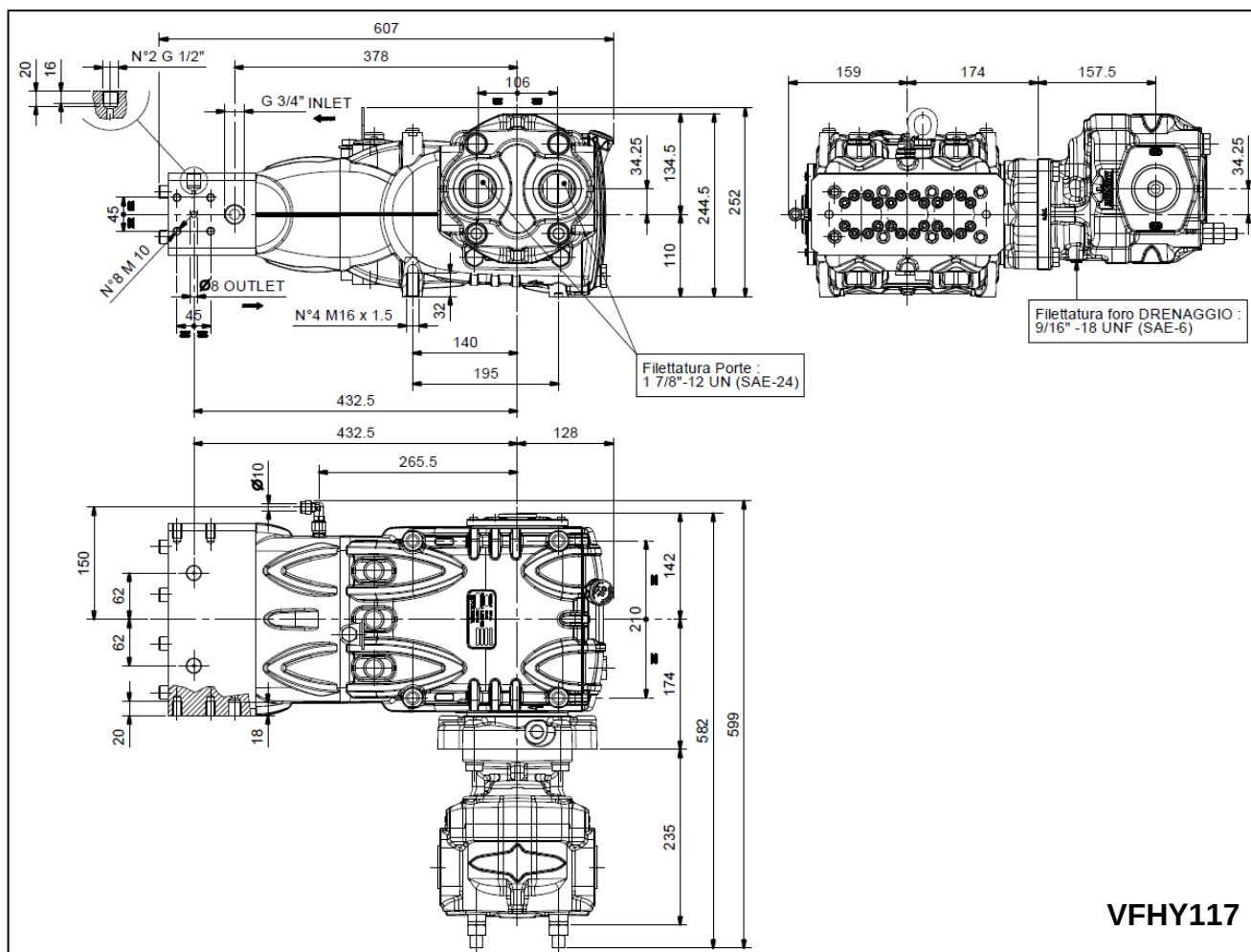
HFHY84

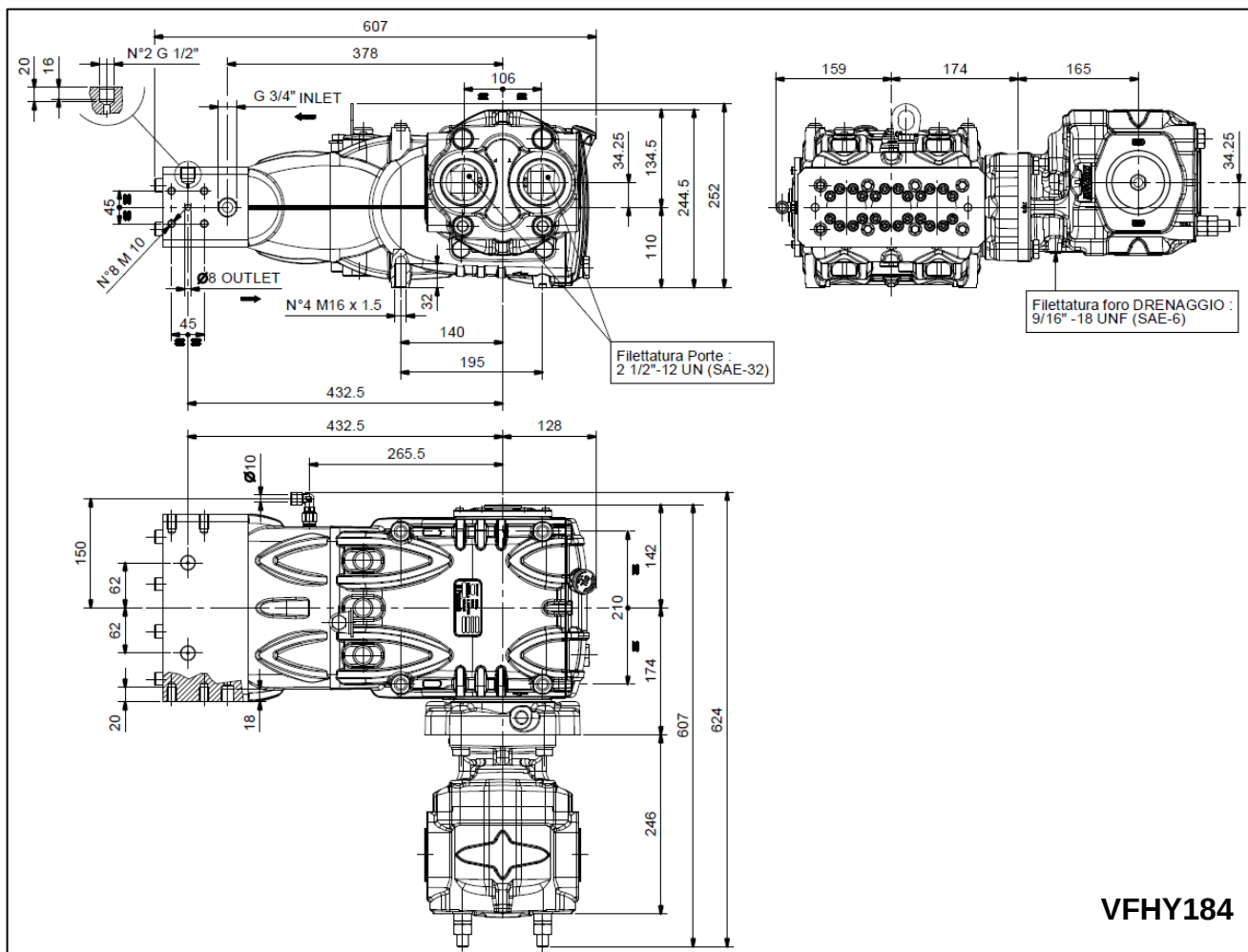


HFHY110

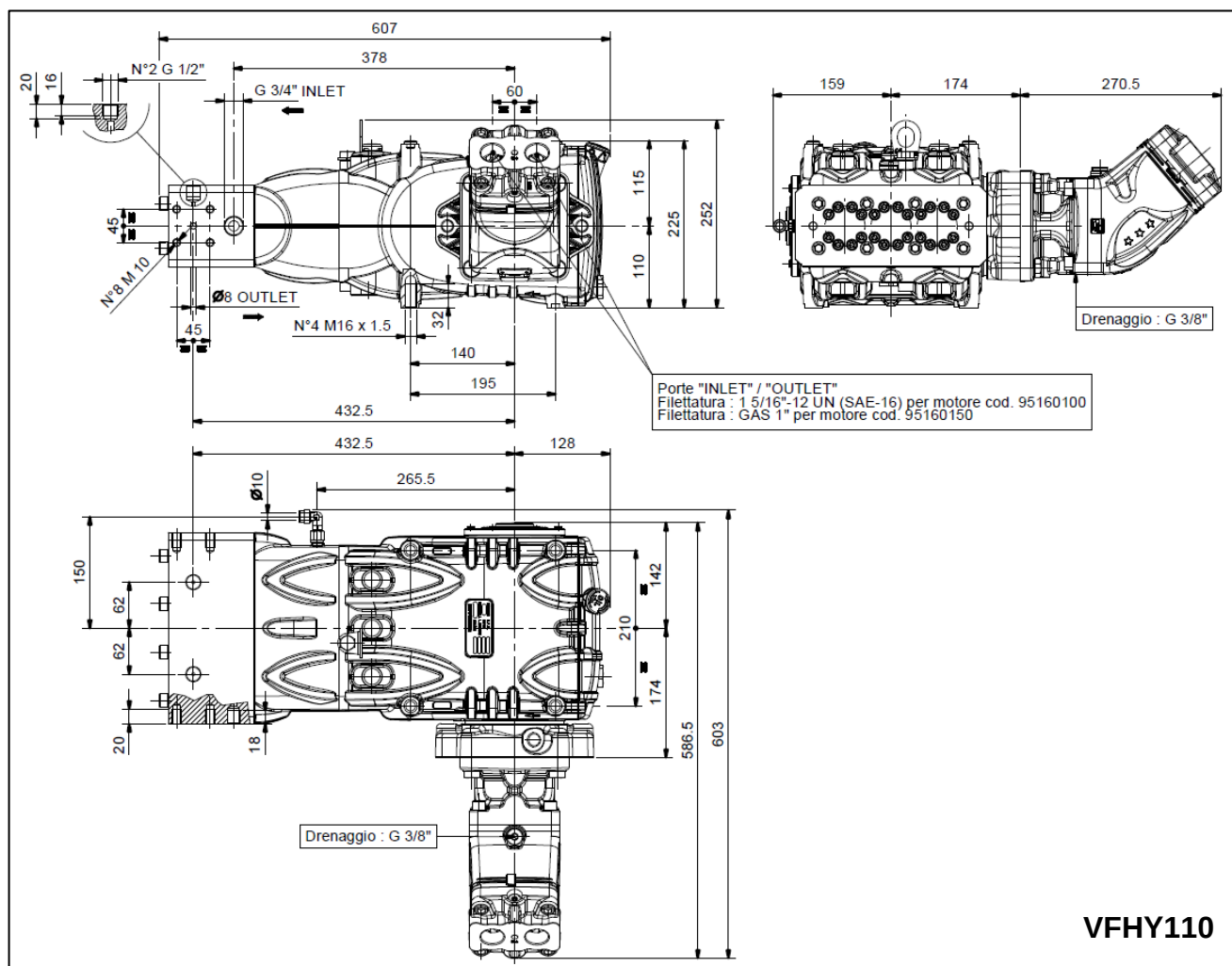
VFH Series

POMPA ACQUA / WATER PUMP				Δp motore max / motor Δp max [bar]			
Modello	Portata	Pressione	GIRI	HYPACK117	HYPACK184	HYPACK110	HYPACK130
Model	Flow [l/min]	Pressure [bar]	[rpm]	95129000 SAE 117,3 cc/giro	95132000 SAE 183,4 cc/giro	95160100 SAE 95160150 GAS 110 cc/giro	95162100 SAE 95162150 GAS 130 cc/giro
VFH12	12,5 / 15	1500 / 1200	750 / 900	270 / 215	175 / 140	295 / 235	245 / 195
VFH14	17 / 23	1100 / 800	750 / 1000	270 / 200	170 / 125	295 / 215	245 / 180
Peso a secco / Weight without oil			[Kg]	98	102	81	81
Tipo / Type				GEAR		PISTON	

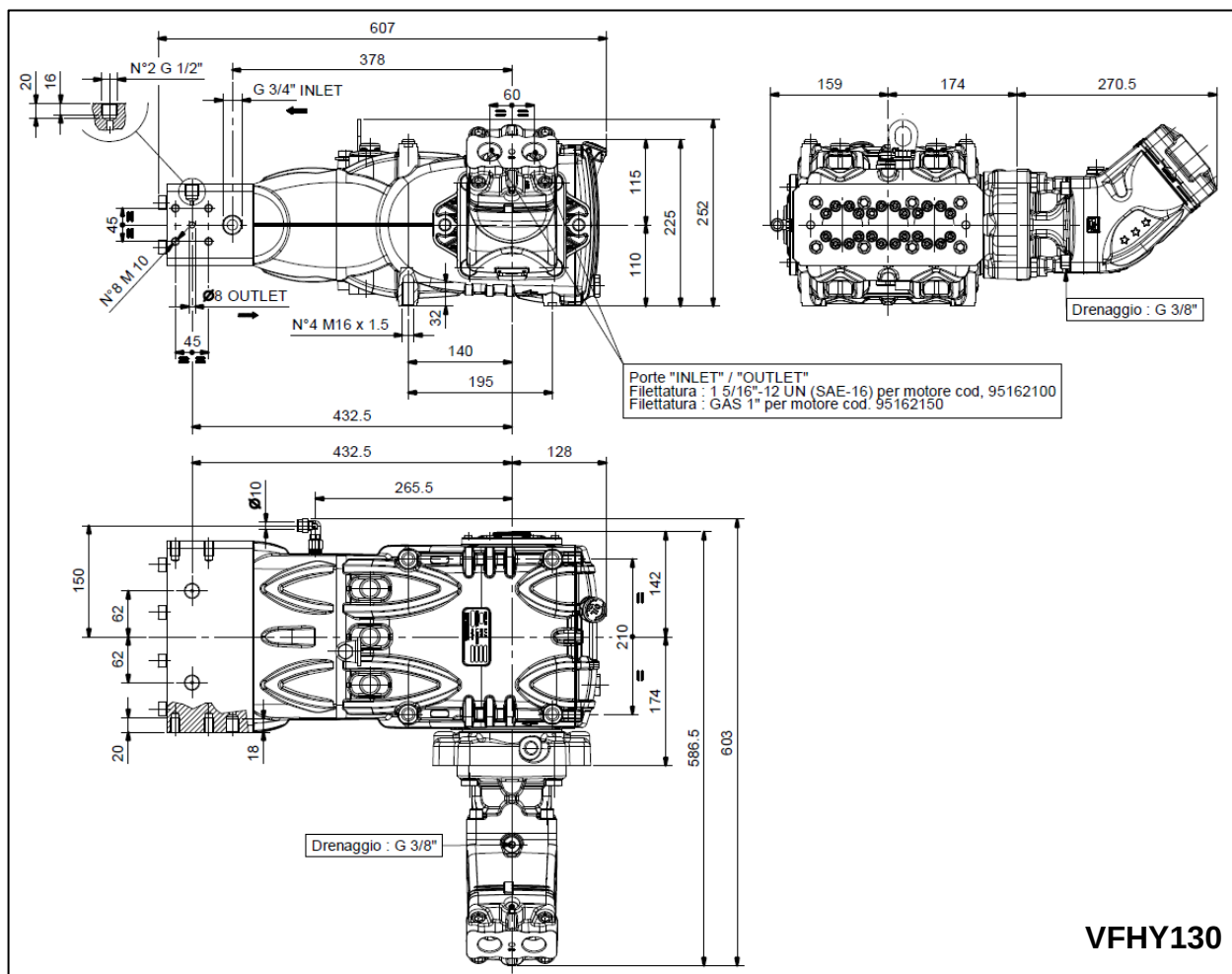




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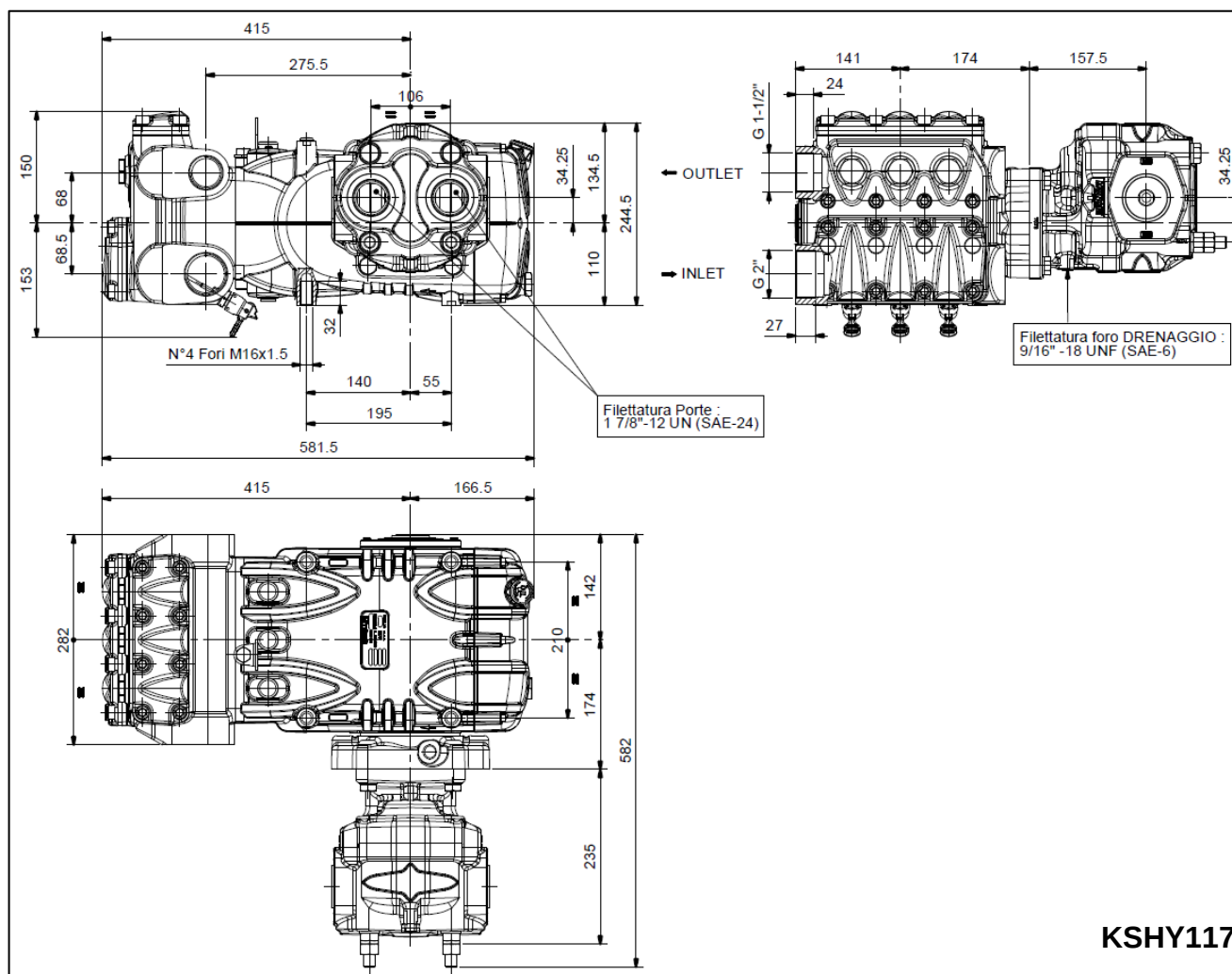
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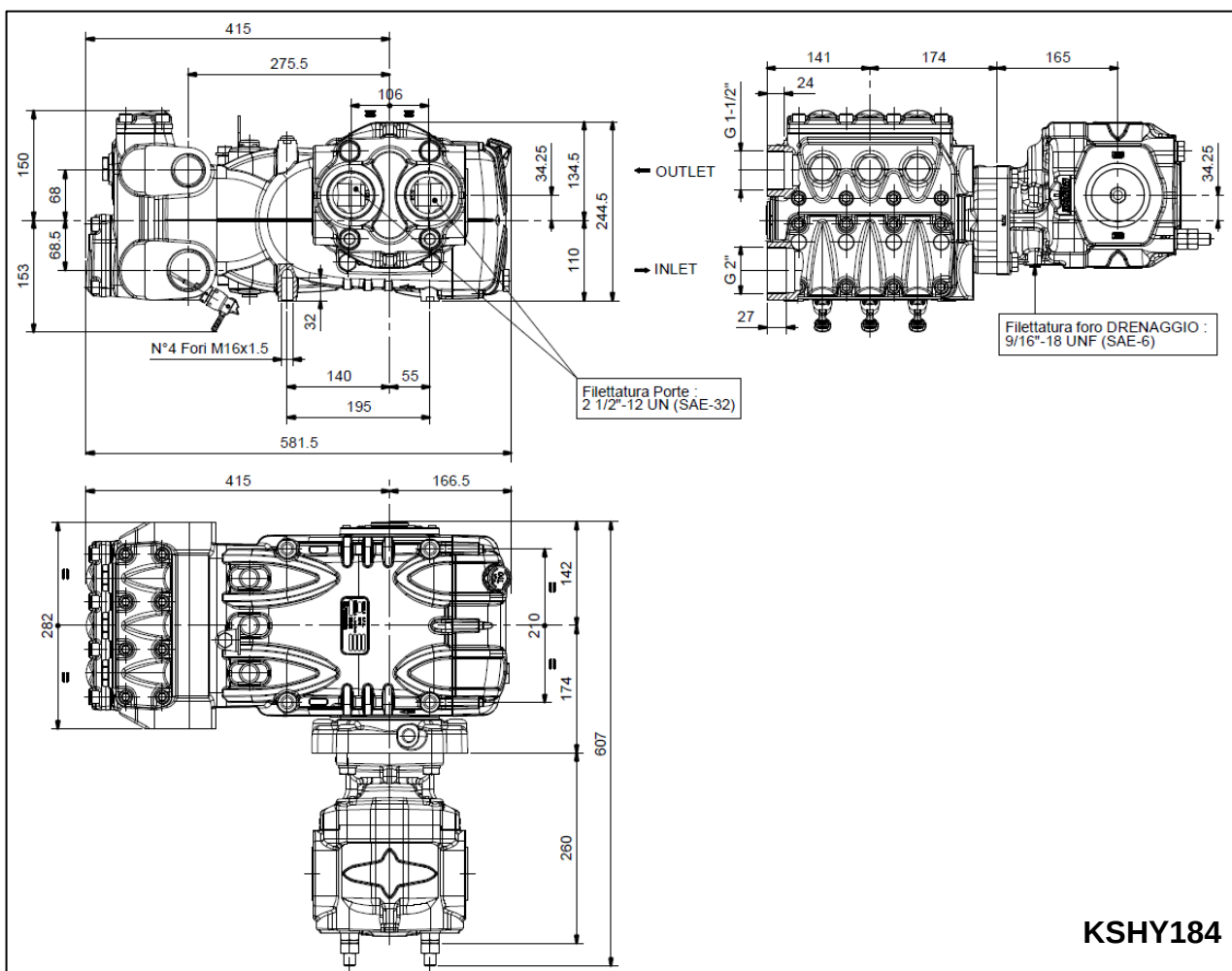


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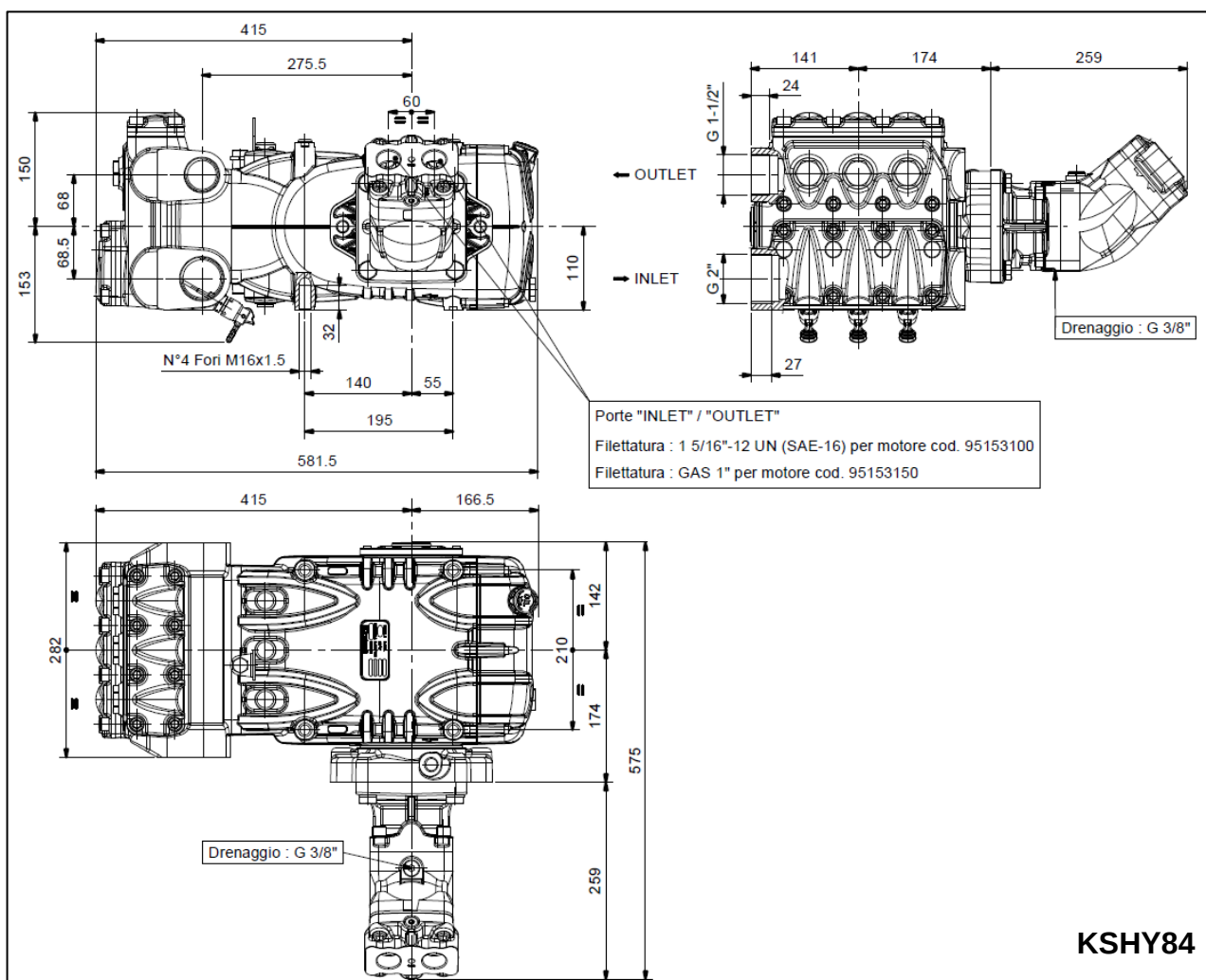
KS / KSR Series

POMPA ACQUA / WATER PUMP				Δp motore max / motor Δp max [bar]				
Modello	Portata	Pressione	GIRI	HYPACK117	HYPACK184	HYPACK84	HYPACK110	HYPACK130
Model	Flow [l/min]	Pressure [bar]	[rpm]	95129000 SAE 117,3 cc/giro	95132000 SAE 183,4 cc/giro	95153100 SAE 95153150 GAS 84 cc/giro	95160100 SAE 95160150 GAS 110 cc/giro	95162100 SAE 95162150 GAS 130 cc/giro
KS28	110	250	1200	250	160	345	270	225
KS32	145	200		265	165	365	285	235
KSR32	145	200					285	
KS36	183	160		265	170	370	285	240
KS38	204	150					300	
KS40	226	140		285	180	400	310	260
Peso / Weight [Kg]				133	137	112	112	114
Tipo / Type				GEAR		PISTON		

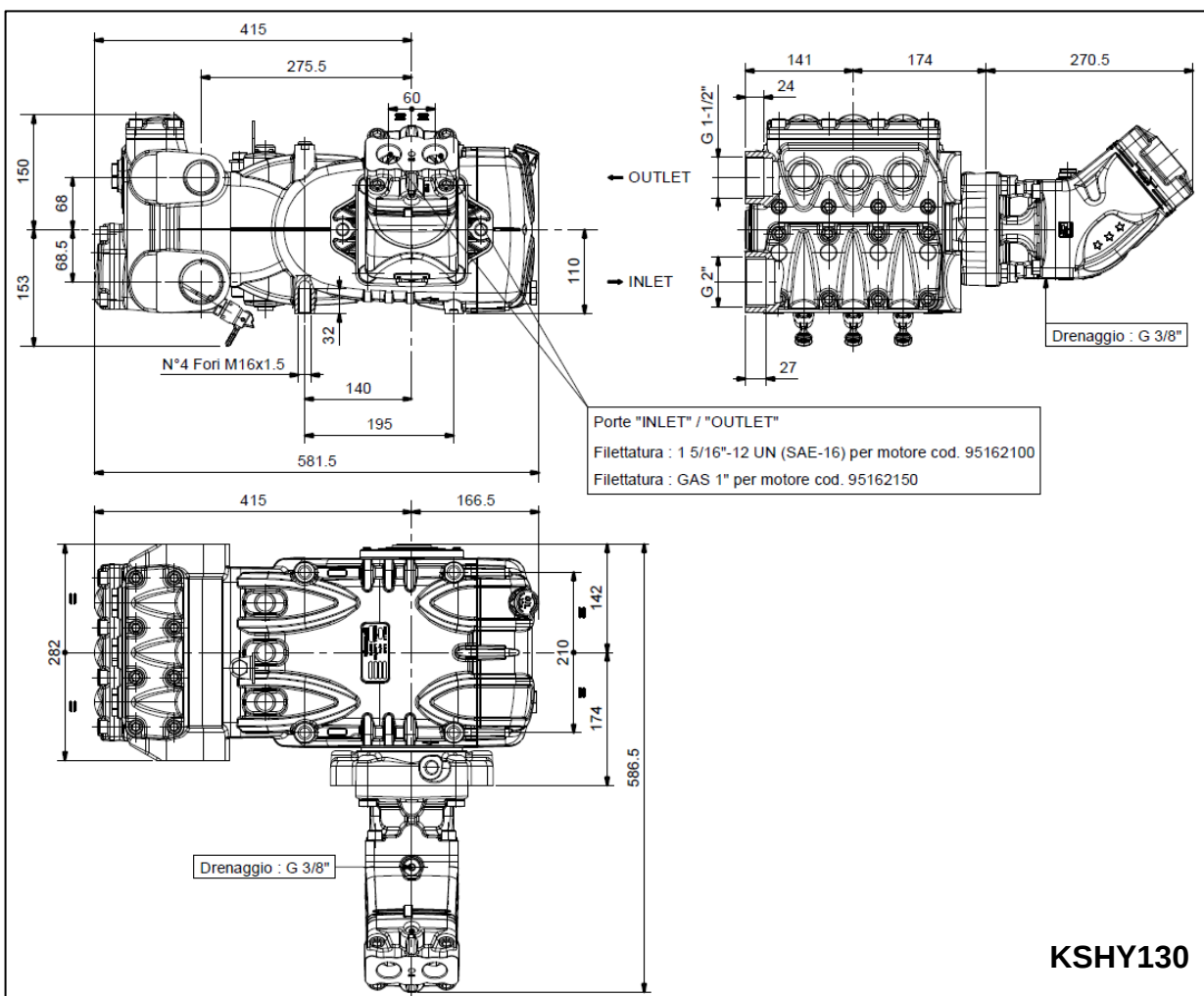
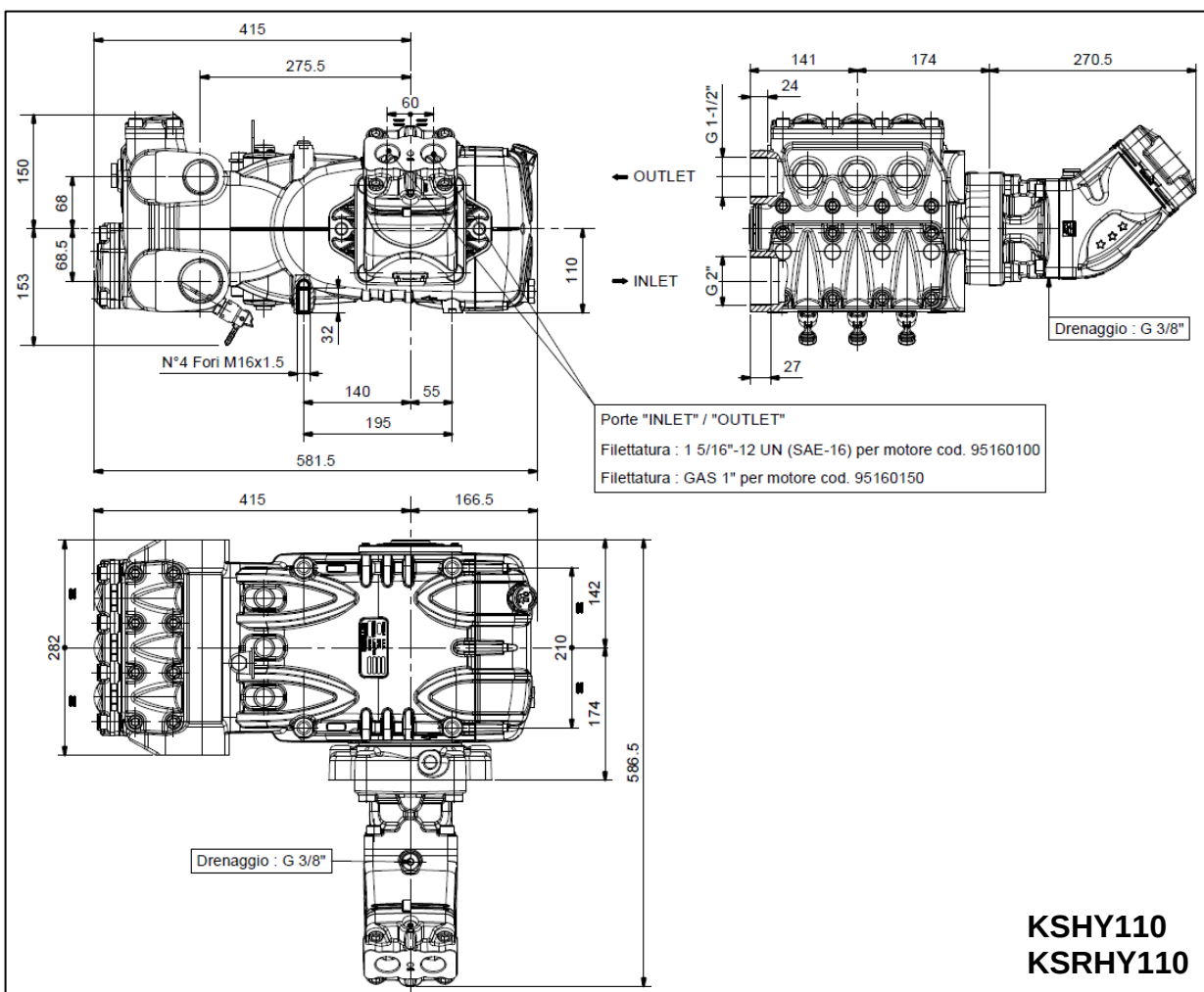




KSHY184

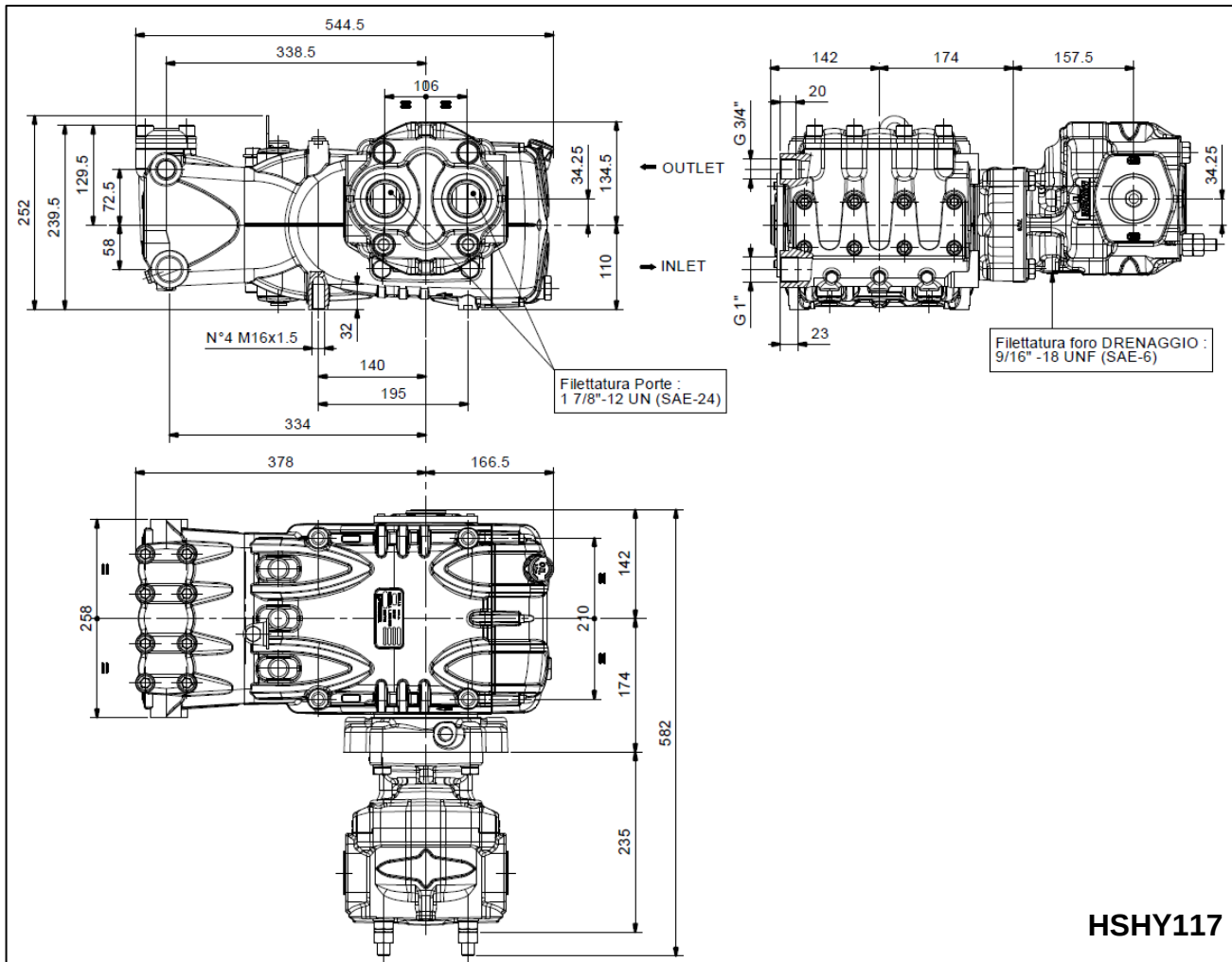


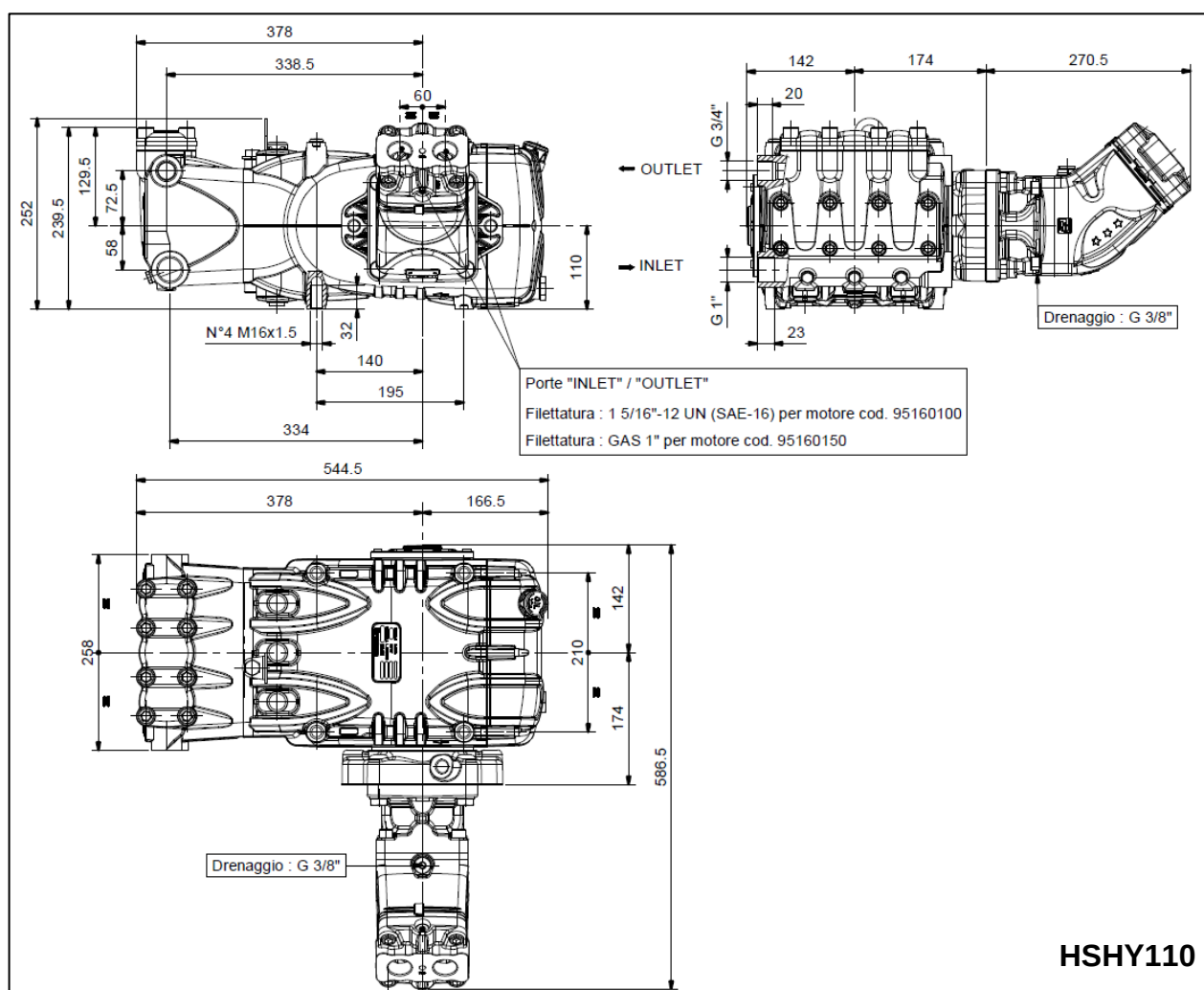
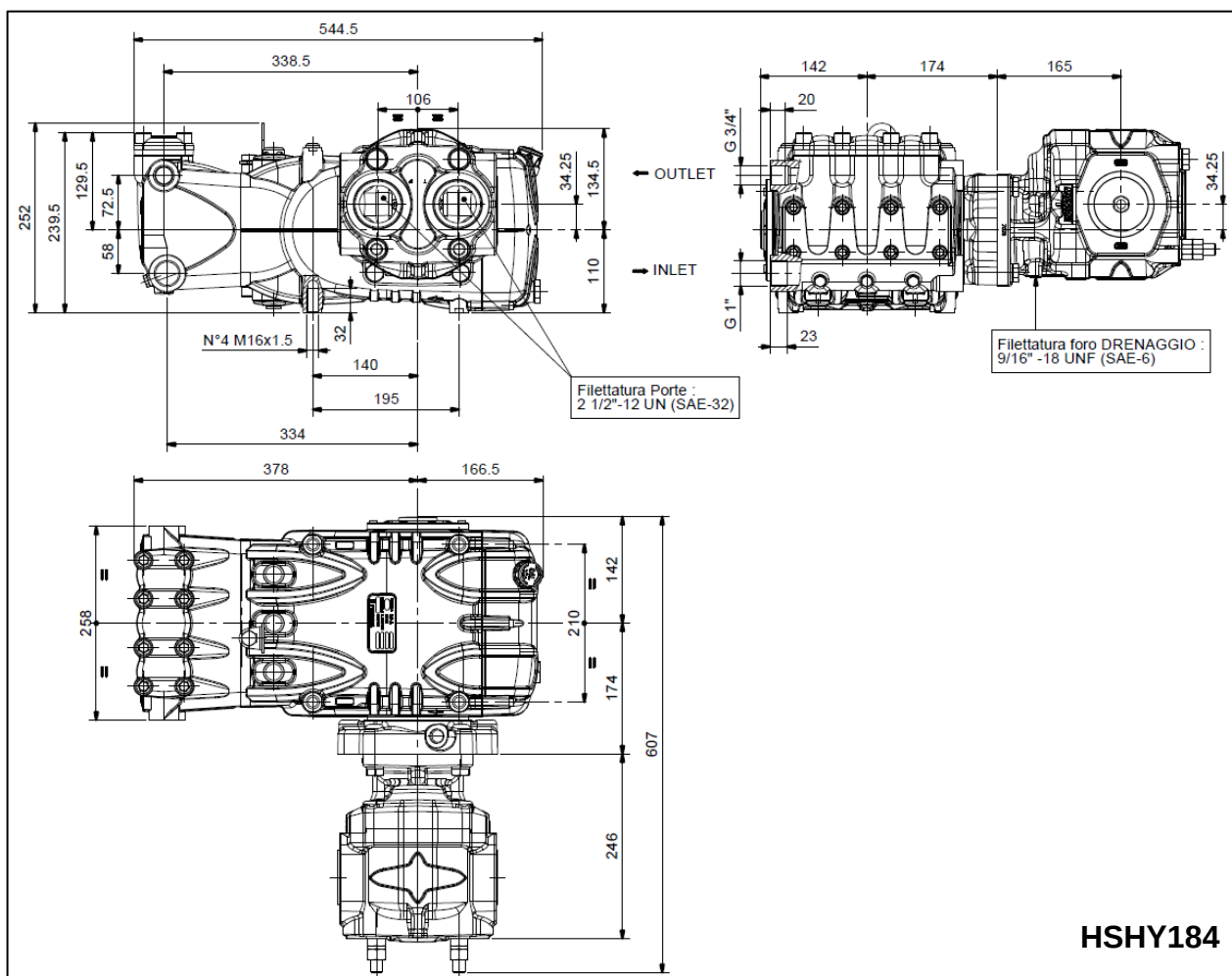
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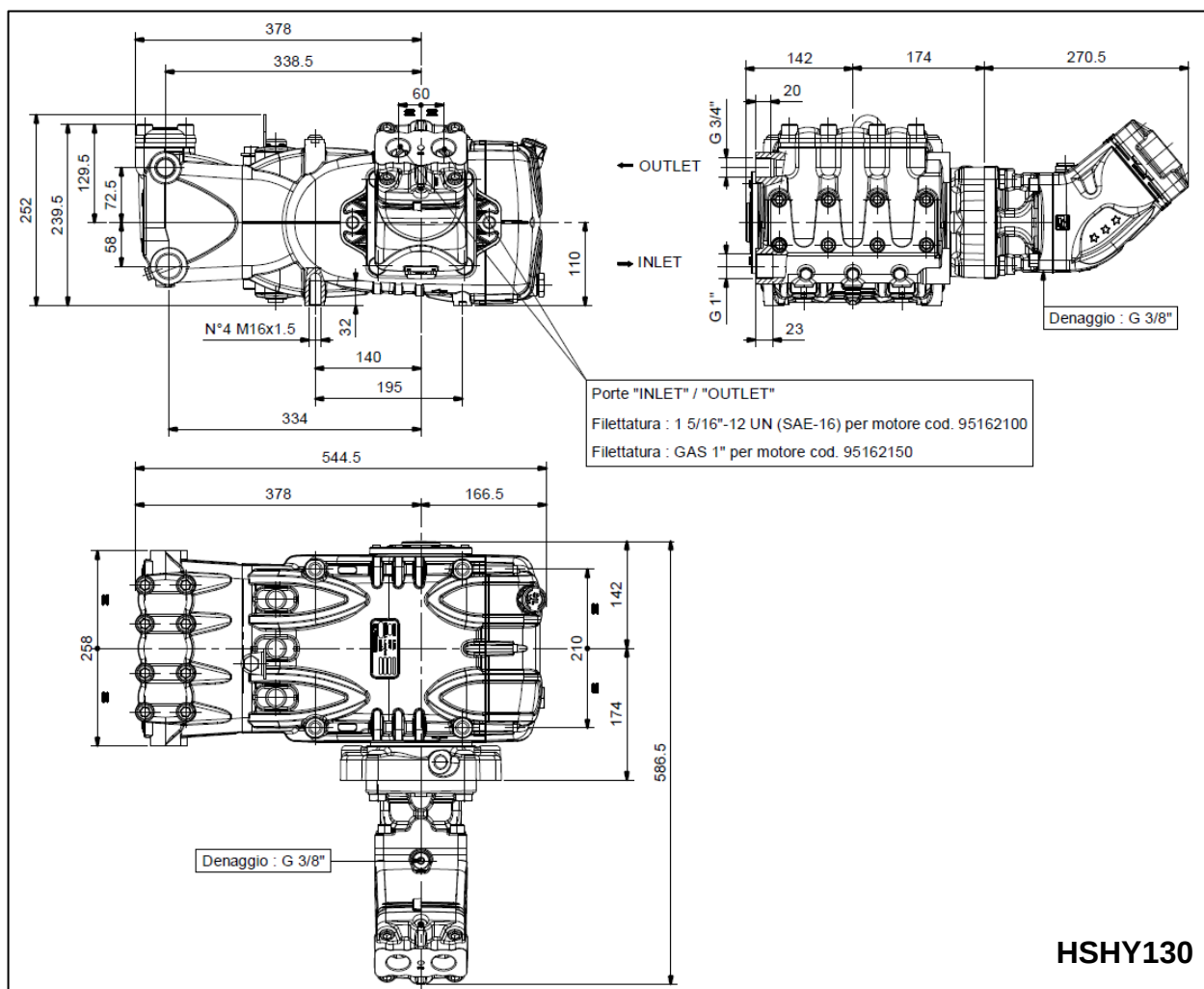


HS Series

POMPA ACQUA / WATER PUMP				Δp motore max / motor Δp max [bar]			
Modello	Portata	Pressione	GIRI	HYPACK117	HYPACK184	HYPACK110	HYPACK130
Model	Flow [l/min]	Pressure [bar]	[rpm]	95129000 SAE 117,3 cc/giro	95132000 SAE 183,4 cc/giro	95160100 SAE 95160150 GAS 110 cc/giro	95162100 SAE 95162150 GAS 130 cc/giro
HS18	46	600	1200	250	160	270	225
HS20	57	500		260	165	280	235
HS22	68	400		245	155	265	220
HS25	88	300				260	
Peso a secco / Weight without oil			[Kg]	101	105	84	84
Tipo / Type				GEAR		PISTON	



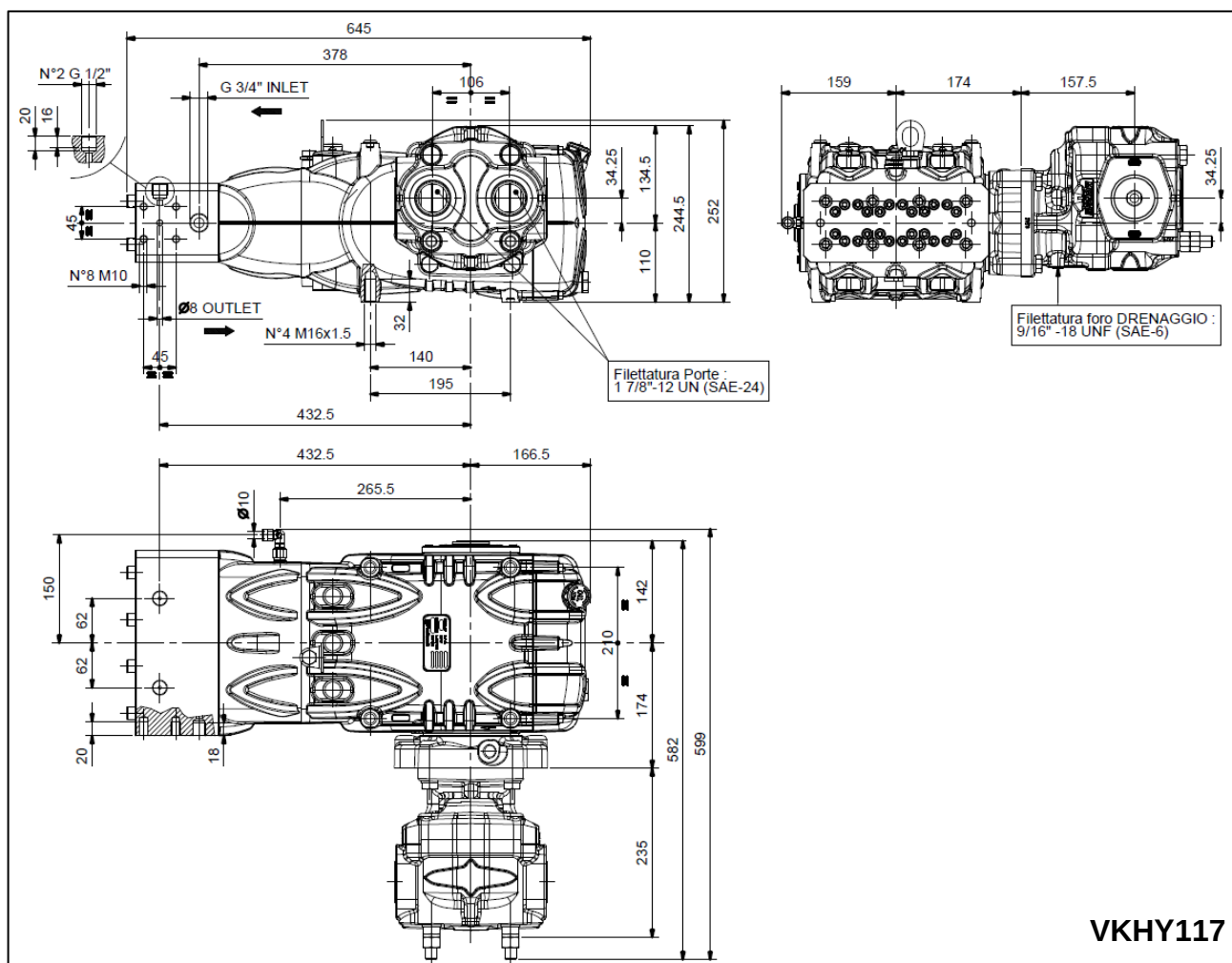


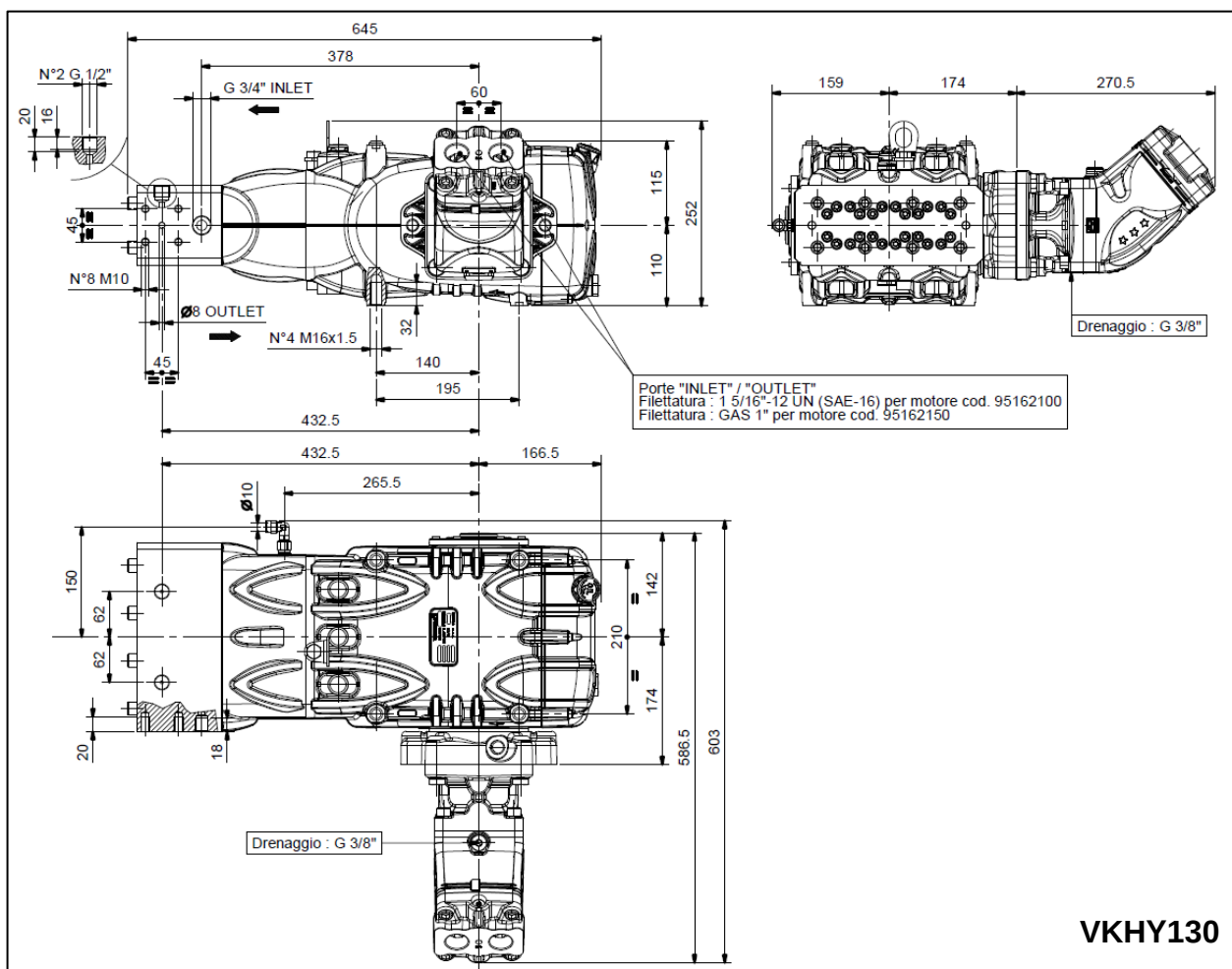


HSHY130

VKH Series

POMPA ACQUA / WATER PUMP				Δp motore max / motor Δp max [bar]			
Modello	Portata	Pressione	GIRI	HYPACK117	HYPACK184	HYPACK110	HYPACK130
Model	Flow [l/min]	Pressure [bar]	[rpm]	95129000 SAE 117,3 cc/giro	95132000 SAE 183,4 cc/giro	95160100 SAE 95160150 GAS 110 cc/giro	95162100 SAE 95162150 GAS 130 cc/giro
VKH12	20	1500	1200	270	175	295	245
VKH14	28	1100		280	175	300	250
Peso a secco / Weight without oil			[Kg]	101	105	84	84
Tipo / Type				GEAR		PISTON	



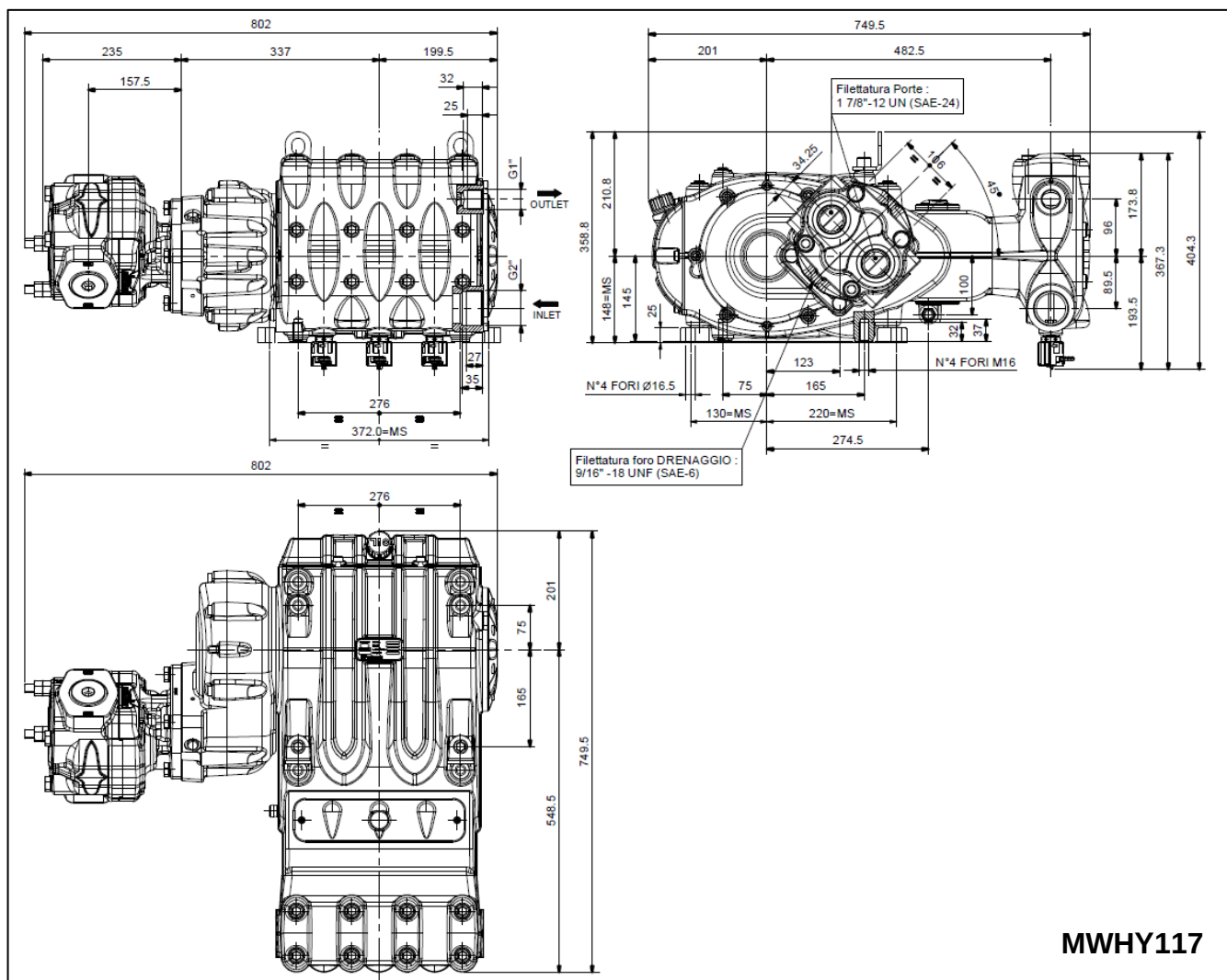


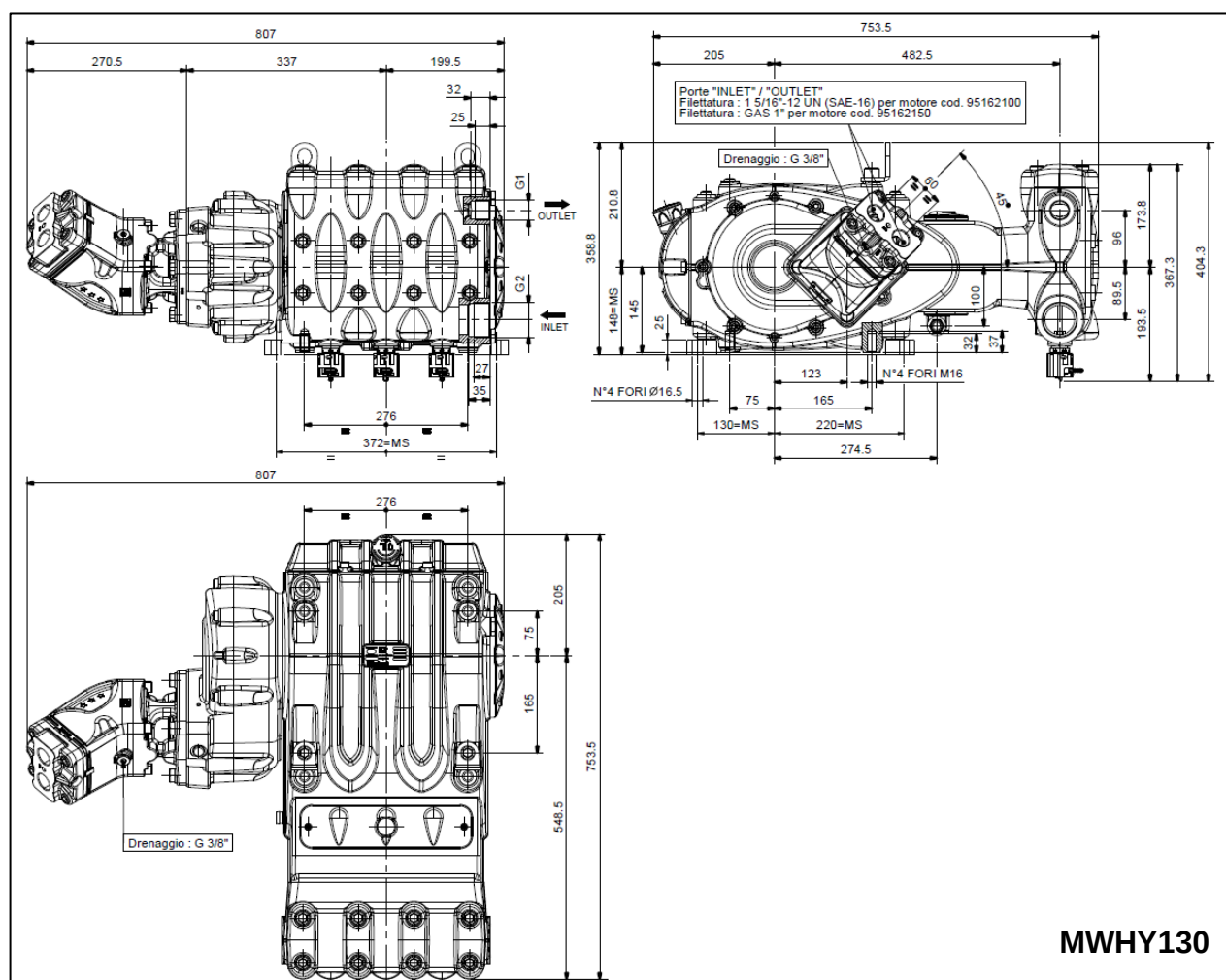
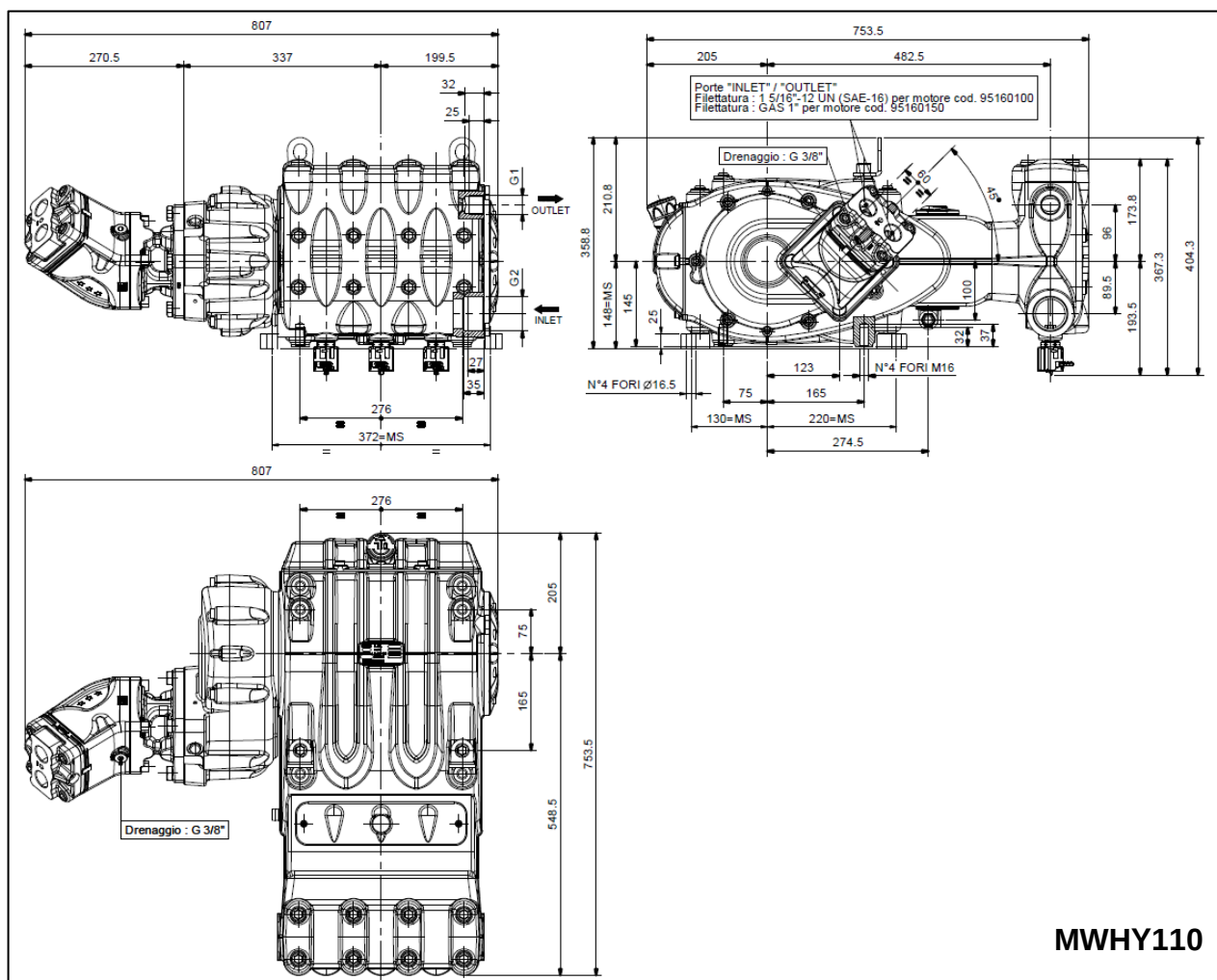
VKHY130

MW Series

POMPA ACQUA / WATER PUMP				Δp motore max / motor Δp max [bar]				
Modello	Portata	Pressione	GIRI	HYPACK117	HYPACK184	HYPACK84	HYPACK110	HYPACK130
Model	Flow [l/min]	Pressure [bar]	[rpm]	95129000 SAE 117,3 cc/giro	95132000 SAE 183,4 cc/giro	95153100 SAE 95153150 GAS 84 cc/giro	95160100 SAE 95160150 GAS 110 cc/giro	95162100 SAE 95162150 GAS 130 cc/giro
HP	MW32	130	300	235 / 195	150 / 120	325 / 270	255 / 210	210 / 175
	MW36	171	240	250 / 205	155 / 130	345 / 280	270 / 220	225 / 185
	MW40	211	210	265 / 220	170 / 140	370 / 305	290 / 235	240 / 195
LP	MW45	267	155	250 / 205	160 / 130		270 / 220	225 / 185
	MW50	330	125	250 / 205	160 / 130		270 / 220	225 / 185
	MW55	399	100	240 / 195	155 / 125		260 / 215	215 / 180
Peso a secco / Weight without oil HP/LP [Kg]				282 / 283	286 / 287	261	265 / 266	265 / 266
Tipo / Type				GEAR		PISTON		

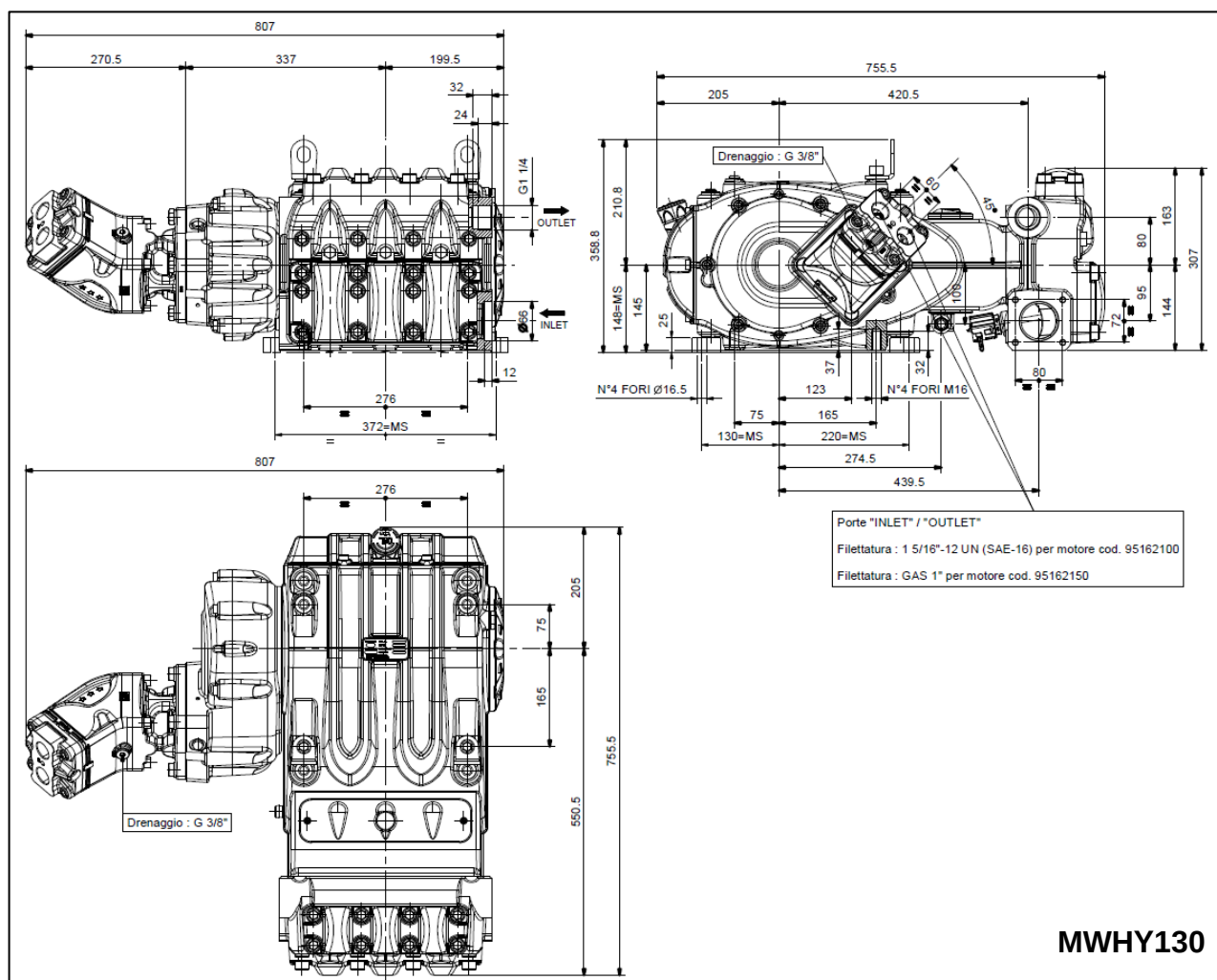
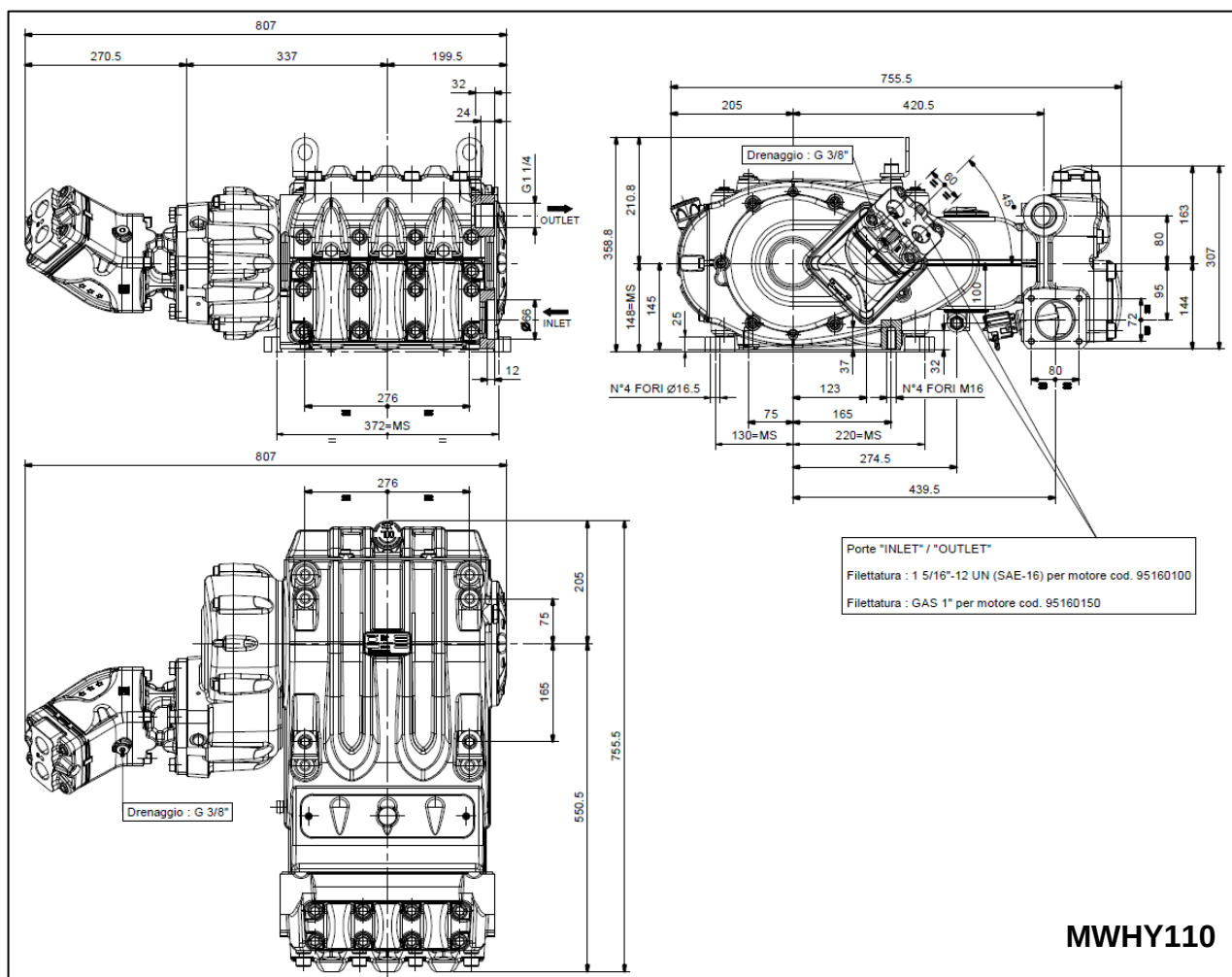
MW HP





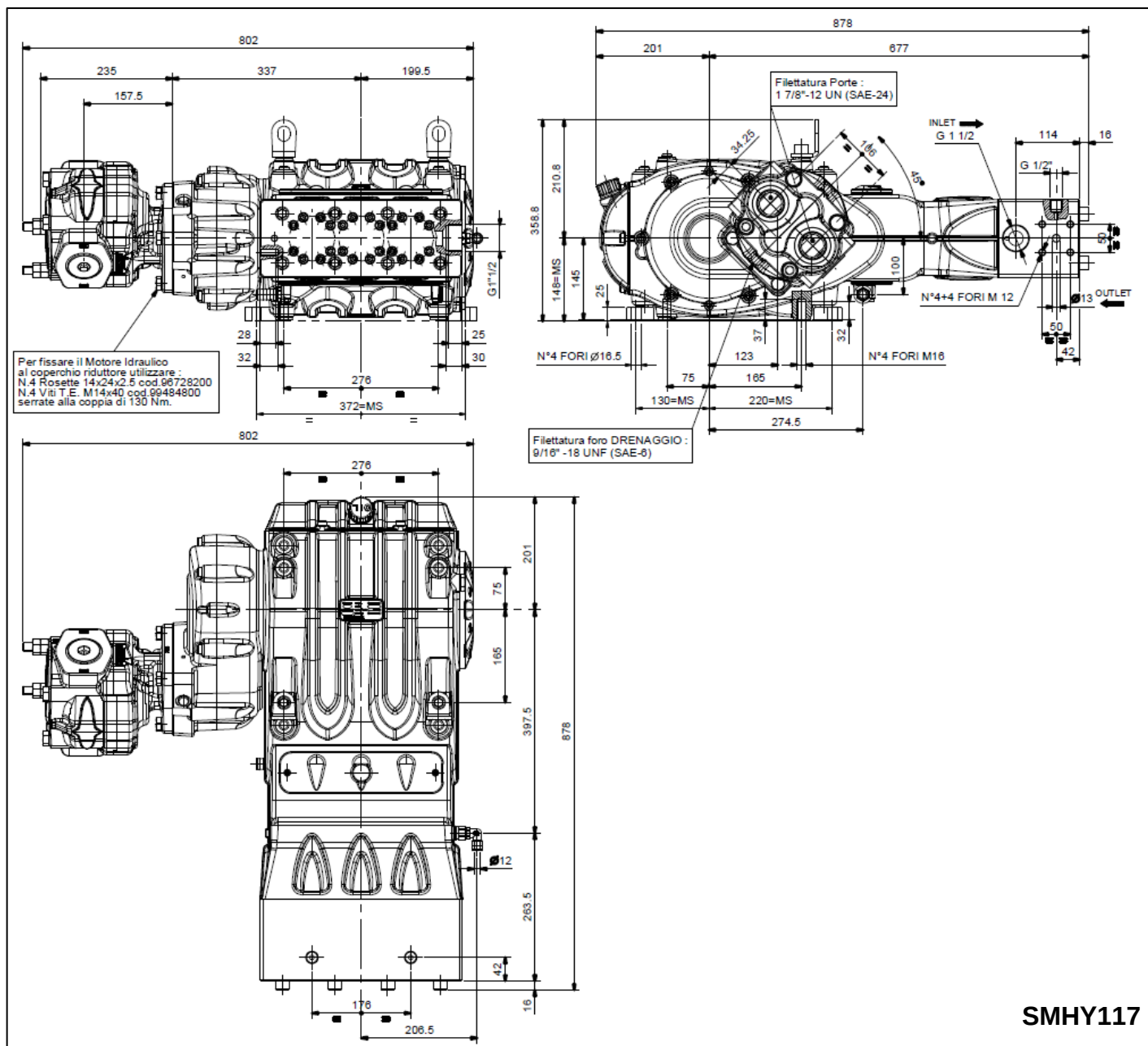
MW LP



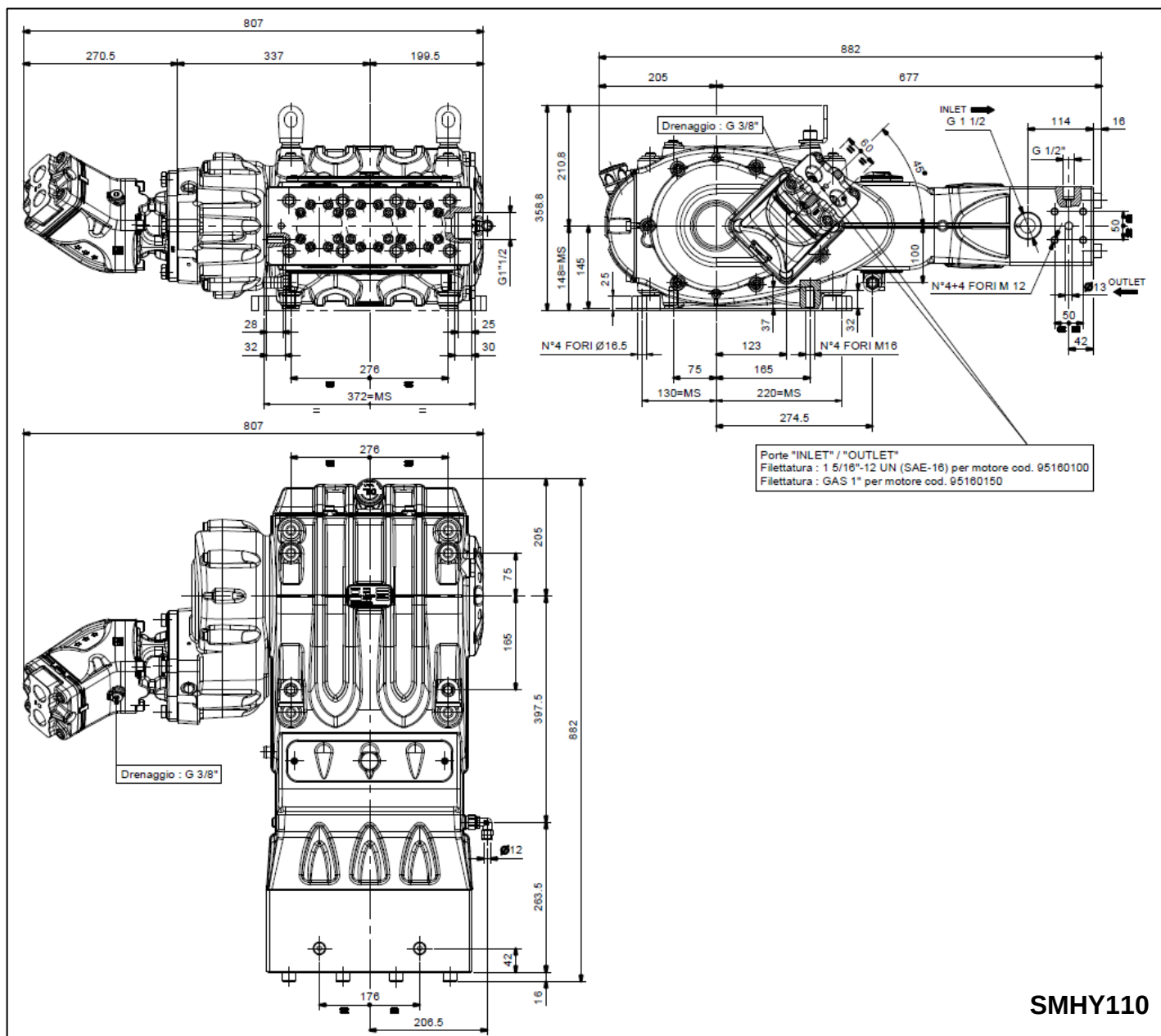


SMH Series

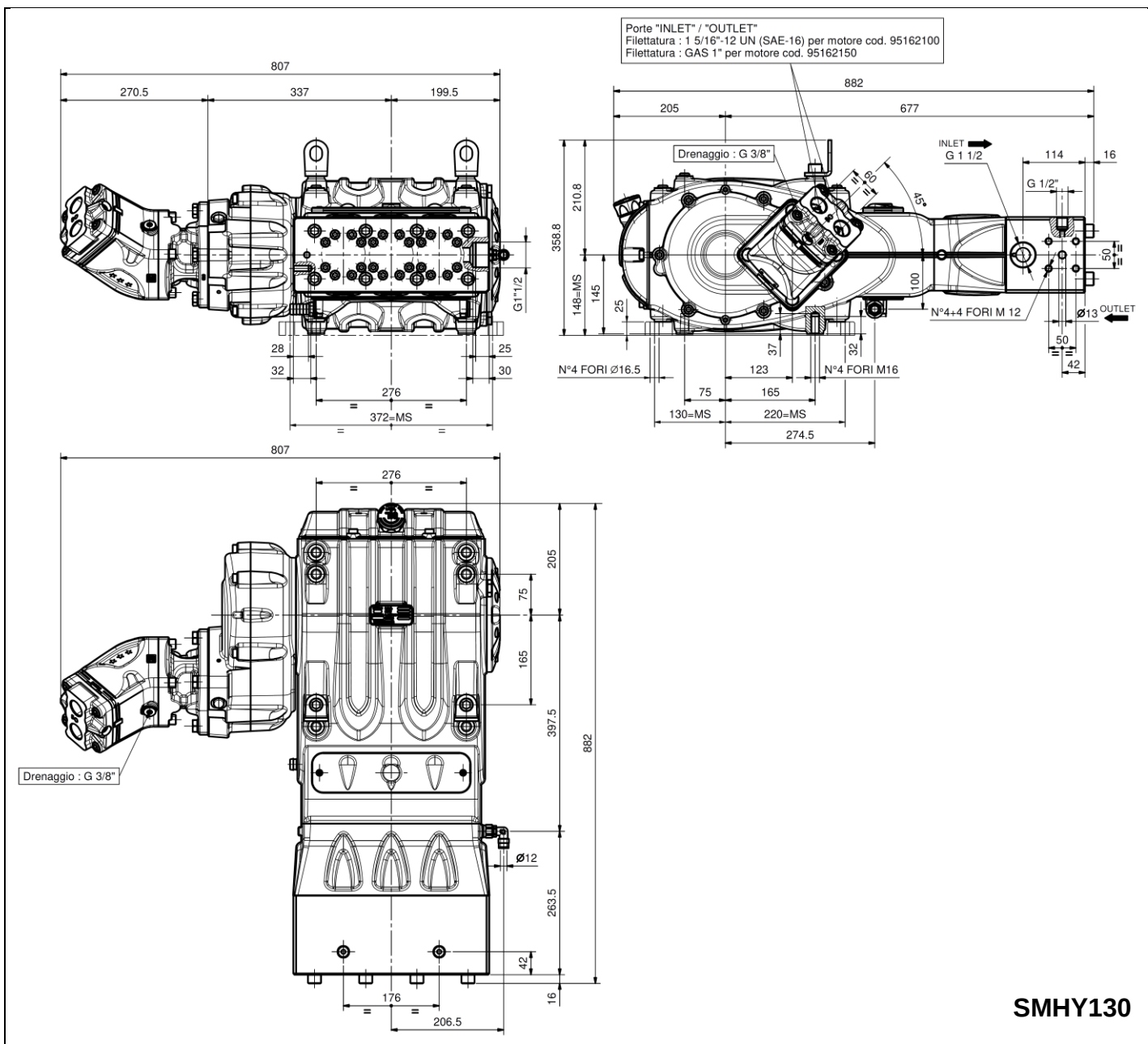
POMPA ACQUA / WATER PUMP				Δp motore max / motor Δp max [bar]			
Modello	Portata	Pressione	GIRI	HYPACK117	HYPACK184	HYPACK110	HYPACK130
Model	Flow [l/min]	Pressure [bar]	[rpm]	95129000 SAE 117,3 cc/giro	95132000 SAE 183,4 cc/giro	95160100 SAE 95160150 GAS 110 cc/giro	95162100 SAE 95162150 GAS 130 cc/giro
SMH14	26	1500	1800 / 2200	235 / 195	150 / 120	255 / 210	210 / 175
SMH16	34	1200		245 / 200	155 / 130	265 / 220	220 / 180
SMH18	43	900		235 / 190	150 / 120	255 / 205	210 / 170
SMH20	53	750		240 / 195	155 / 125	260 / 215	215 / 175
SMH22	64	600		230 / 190	145 / 120	250 / 205	210 / 170
SMH24	76	500		230 / 190	145 / 120	250 / 205	205 / 170
Peso a secco / Weight without oil			[Kg]	298	302	281	281
Tipo / Type				GEAR		PISTON	



SMHY117

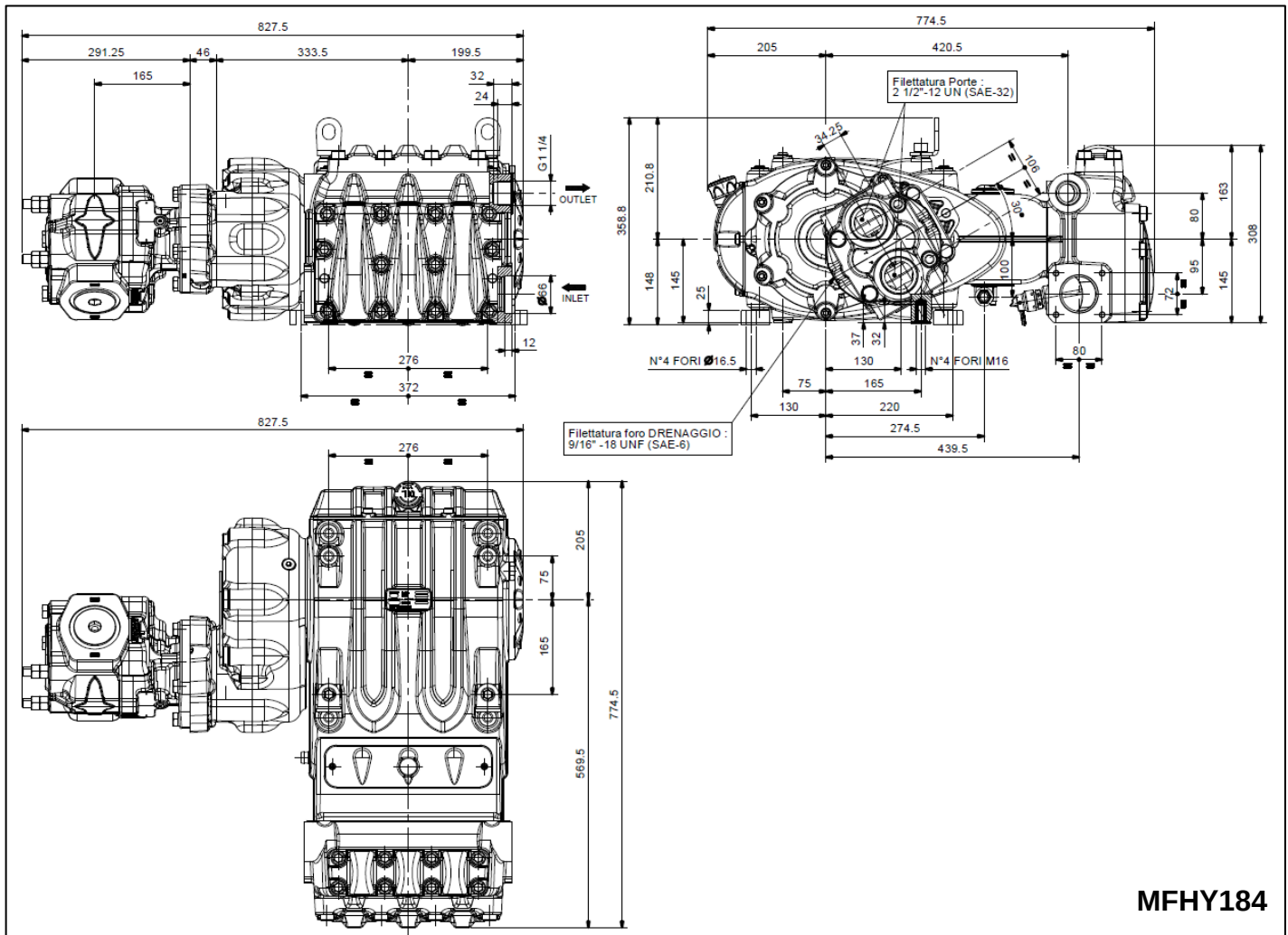


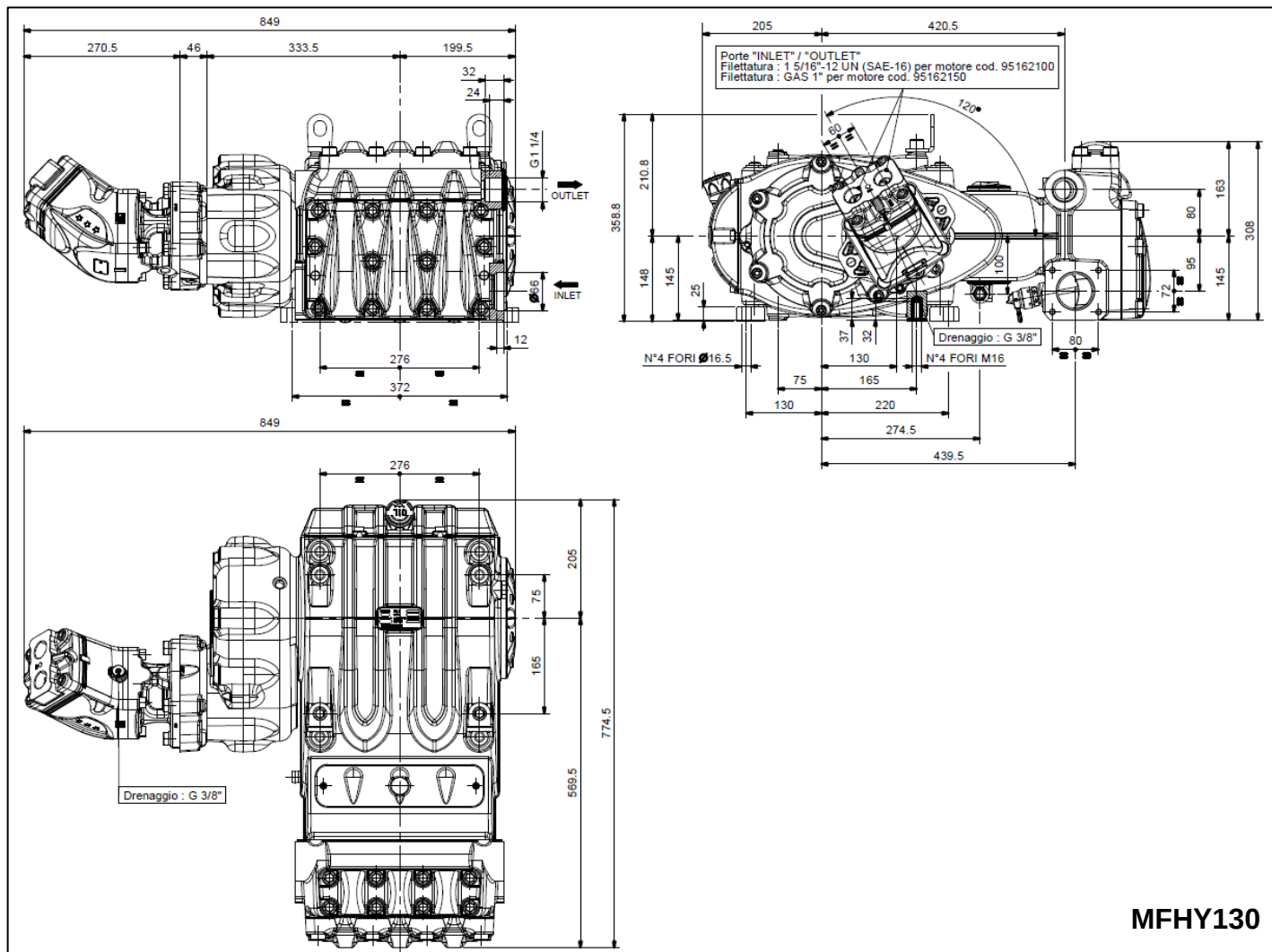
SMHY110



MF Series

POMPA ACQUA / WATER PUMP				Δp motore max / motor Δp max [bar]	
Modello	Portata	Pressione	GIRI	HYPACK184	HYPACK130
Model	Flow [l/min]	Pressure [bar]	[rpm]	95132000 SAE 183,4 cc/giro	95162100 SAE 95162150 GAS 130 cc/giro
MF45	270	200	1800 / 2200	205 / 170	295 / 240
MF50	333	170		215 / 180	310 / 250
MF55	403	140		215 / 175	305 / 250
Peso a secco / Weight without oil			[Kg]	301	280
Tipo / Type				GEAR	PISTON





MFHY130

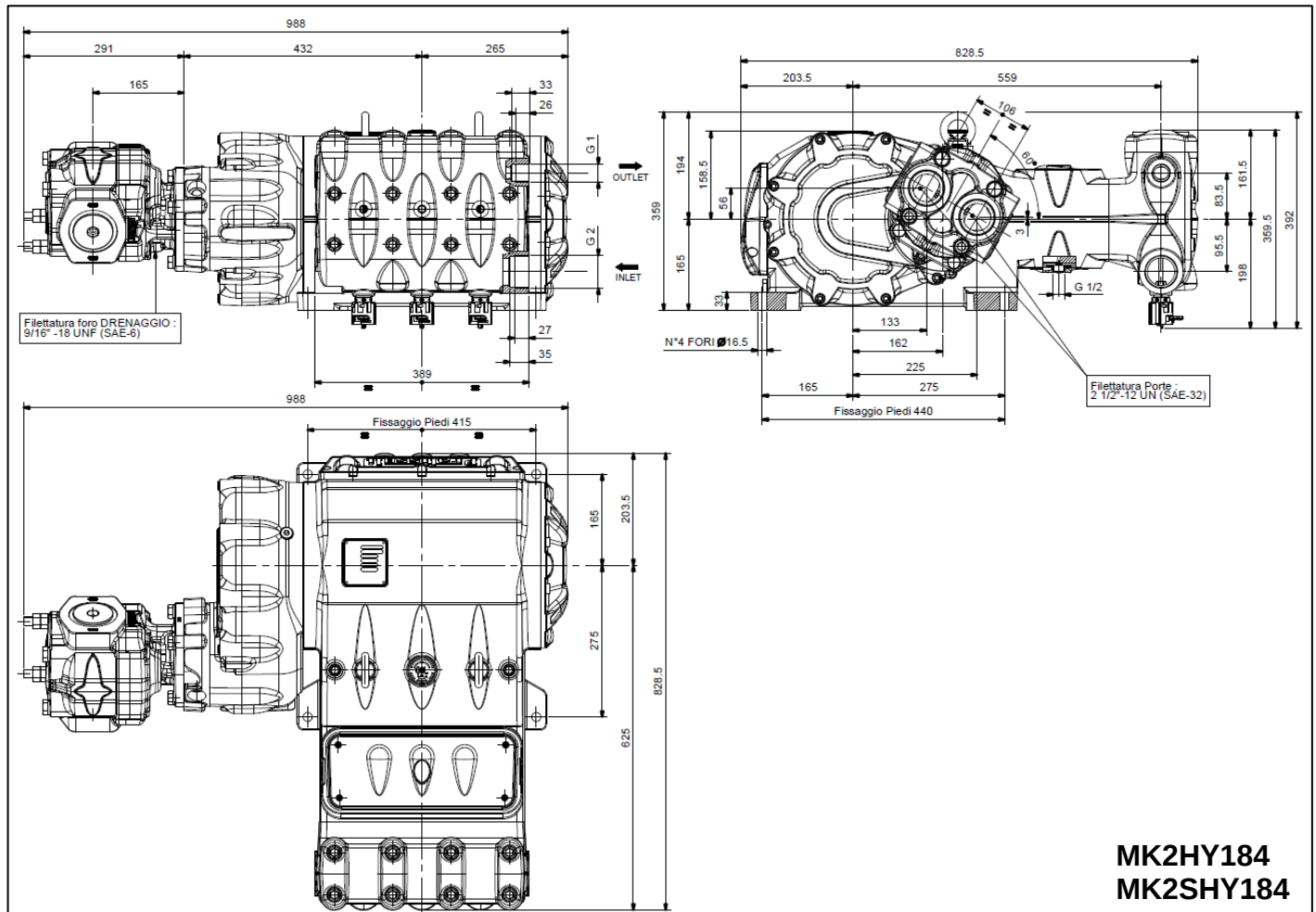
MK2 Series

	POMPA ACQUA / WATER PUMP				Δp motore max / motor Δp max [bar]		
	Modello	Portata	Pressione	GIRI	HYPACK184	HYPACK110	HYPACK130
	Model	Flow [l/min]	Pressure [bar]	[rpm]	95132000 SAE 183,4 cc/giro	95160100 SAE 95160150 GAS 110 cc/giro	95162100 SAE 95162150 GAS 130 cc/giro
HP	MK240	149	400	2050	200	340	285
	MK245	189	300		190	325	270
	MK250	233	250		195	335	280
LP	MK255	282	200		190	325	270
	MK260	335	170		190	325	270
	MK265	393	150		200	340	280
	Peso a secco / Weight without oil HP / LP [Kg]				440 / 453	419 / 432	419 / 432
	Tipo / Type				GEAR	PISTON	

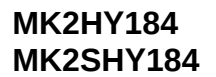
MK2S Series

	POMPA ACQUA / WATER PUMP				Δp motore max / motor Δp max [bar]		
	Modello	Portata	Pressione	GIRI	HYPACK184	HYPACK130	
	Model	Flow [l/min]	Pressure [bar]	[rpm]	95132000 SAE 183,4 cc/giro	95162100 SAE 95162150 GAS 130 cc/giro	
HP	MK2S40	183	400	2500	200	285	
	MK2S45	232	300		190	275	
	MK2S50	287	250		200	280	
LP	MK2S55	347	200		190	270	
	MK2S60	413	170		195	275	
	MK2S65	485	150		200	285	
	Peso a secco / Weight without oil HP / LP [Kg]				440 / 453	419 / 432	
	Tipo / Type				GEAR	PISTON	

MK2 / MK2S HP

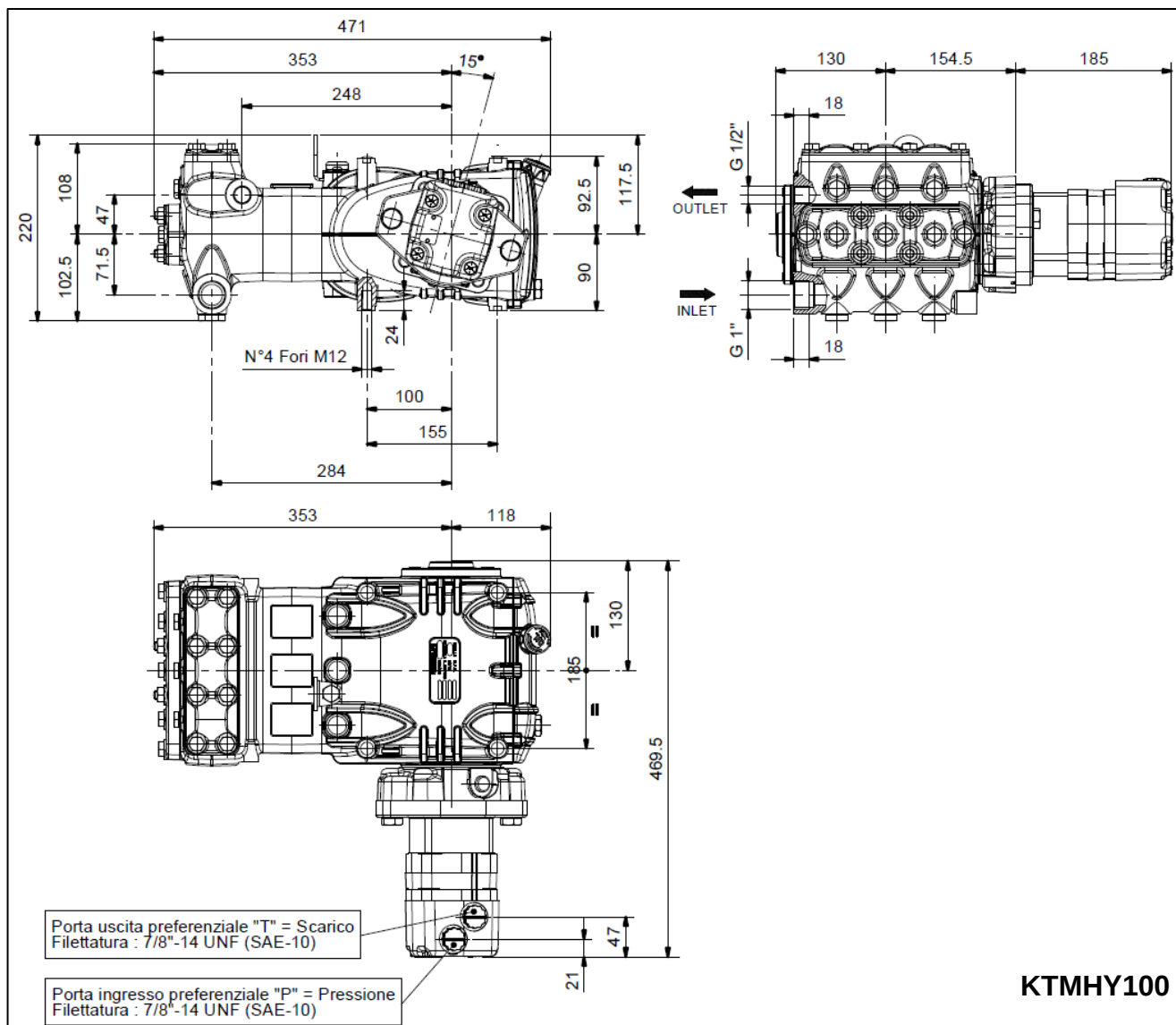


MK2 / MK2S LP



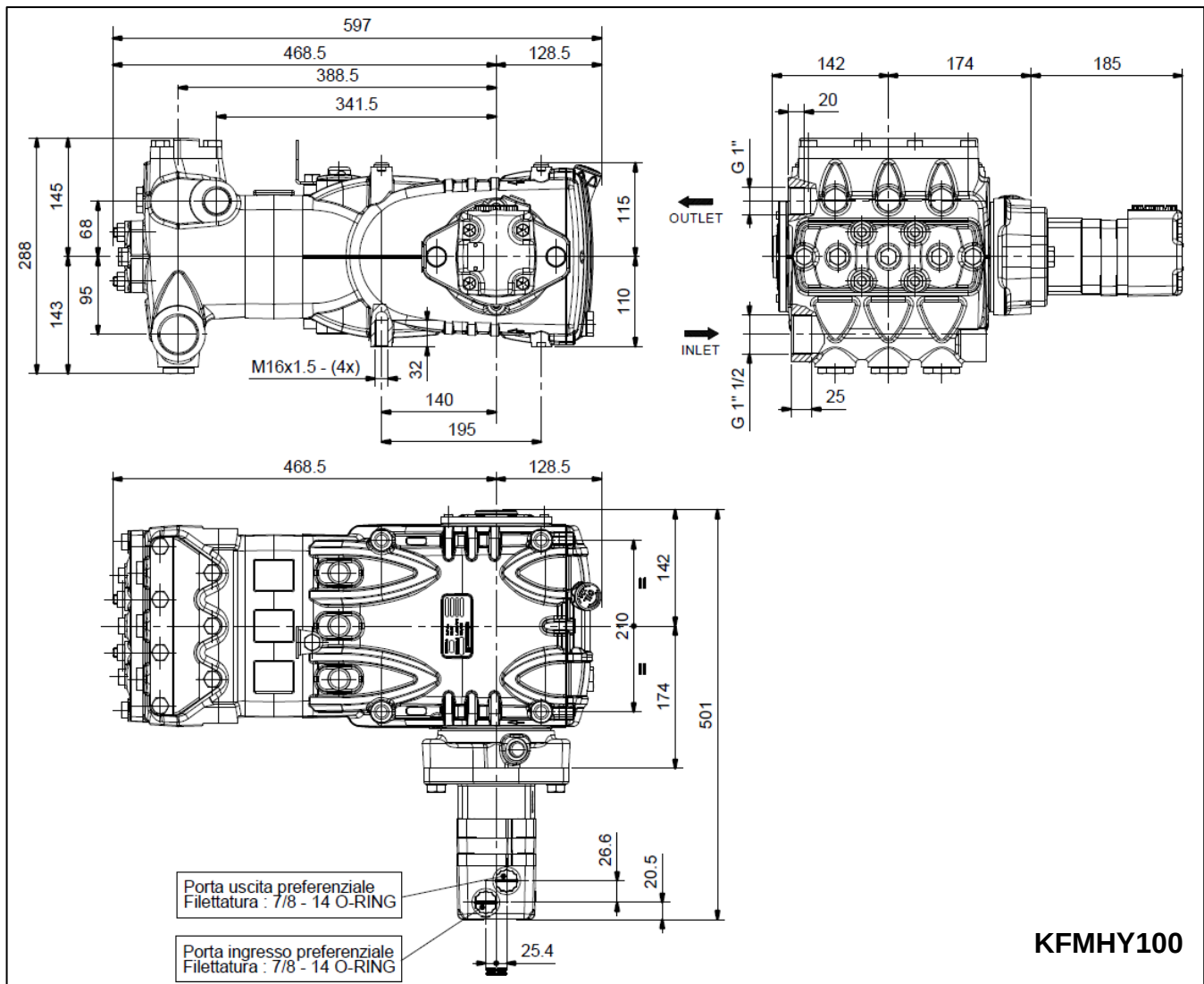
KTM Series

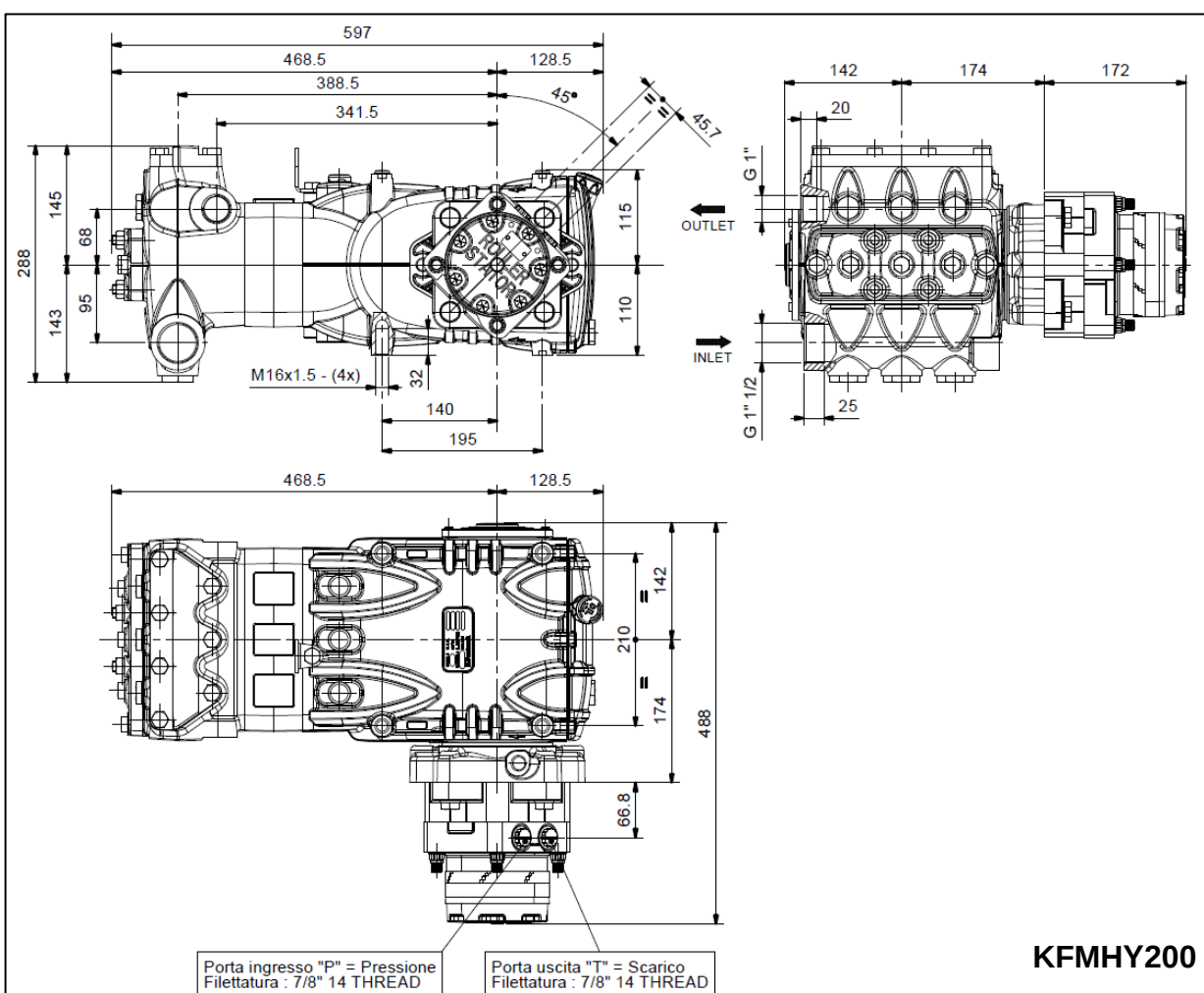
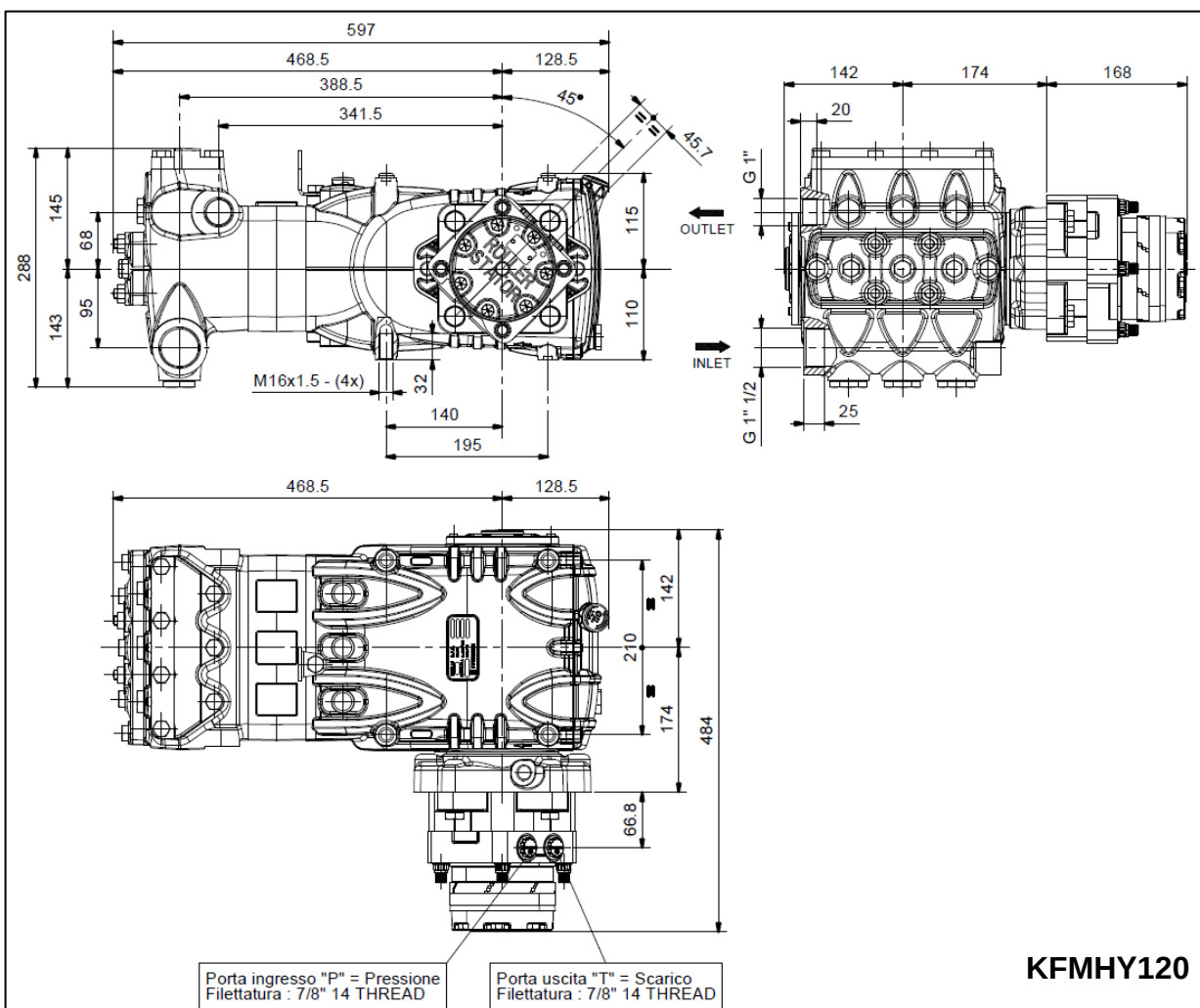
POMPA ACQUA / WATER PUMP				Δp motore max / motor Δp max [bar]
Modello	Portata	Pressione	GIRI	HYPACK100 95175000 SAE (13 T) 100 cc/giro
Model	Flow [l/min]	Pressure [bar]	[rpm]	
KT4M	74	50	600	80
Peso a secco / Weight without oil [Kg]				50
Tipo / Type				ORBITAL



KFM Series

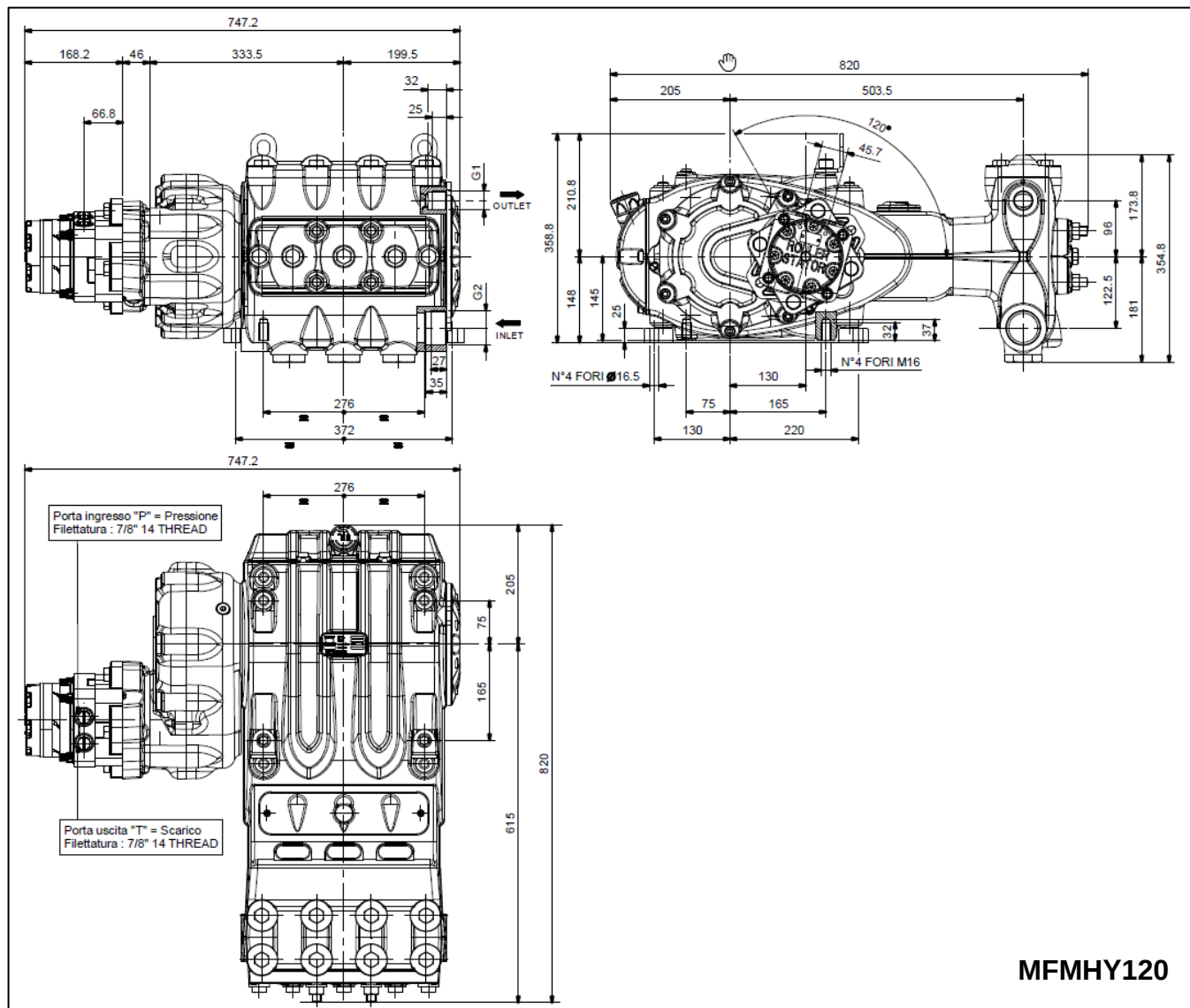
POMPA ACQUA / WATER PUMP				Δp motore max / motor Δp max [bar]		
Modello	Portata	Pressione	GIRI	HYPACK100	HYPACK120	HYPACK200
Model	Flow [l/min]	Pressure [bar]	[rpm]	95175200 SAE (14 T) 100 cc/giro	95180000 SAE (14 T) 120 cc/giro	95185000 SAE (14 T) 200 cc/giro
KF5M 5B	109	50	370			90
	144		490		155	
	177		600	190		
KF5M 9B	109	80	370			145
	144	70	490		215	
	177		600	265		
Peso a secco / Weight without oil			[Kg]	76	83	83
Tipo / Type				ORBITAL		





MFM Series

POMPA ACQUA / WATER PUMP				Δp motore max / motor Δp max [bar]
Modello	Portata	Pressione	GIRI	HYPACK120 95180000 SAE (14 T) 120 cc/giro
Model	Flow [l/min]	Pressure [bar]	[rpm]	
MF7M 5B	203	50	490	220
MF7M 5D	242	40	490	210
Peso a secco / Weight without oil [Kg]				293
Tipo / Type				ORBITAL



CALCOLO PRESTAZIONI POMPA OLEODINAMICA

CALCULATING OLEODYNAMIC SYSTEM

E' possibile verificare il regime e la pressione che la pompa oleodinamica dovrà fornire per ottenere le prestazioni di targa della motopompa utilizzando le seguenti indicazioni :

You can calculate the r.p.m. and the pressure that the oleodynamic pump must supply in order to obtain the target performances of motor-pump; you can use the following formula :

$$\text{RPM (pompa)} = \frac{V_{\text{motore}}}{V_{\text{pompa}}} \cdot \text{RPM (motore)} \cdot \frac{1}{0,85}$$

$$\Delta P (\text{pompa}) \simeq \Delta P \text{ motore}$$

V = Clindrata (cc/giro)
Displacement

RPM = Giri/min

ΔP = Caduta di pressione
Drop pressure

Esempio :

Example :

Pompa acqua KE20 (30lt.min. / 300 bar) con il motore 95115000 :
KE20 water pump (30lt.min. / 300 bar) with motor 95115000 :

$$\text{RPM (pompa)} = \frac{47,9}{V_{\text{pompa}}} \cdot 1450 \cdot \frac{1}{0,85}$$

con il motore 95152000 :
with motor 95152000 :

$$\text{RPM (pompa)} = \frac{64,1}{V_{\text{pompa}}} \cdot 1450 \cdot \frac{1}{0,85}$$

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INTERPUMP GROUP S.p.A.

VIA FERMI, 25 - 42049 S.ILARIO - REGGIO EMILIA (ITALY)
TEL. +39 - 0522 - 904311 TELEFAX +39 - 0522 - 904444
E-mail: info@interpumpgroup.it - <http://www.interpumpgroup.it>