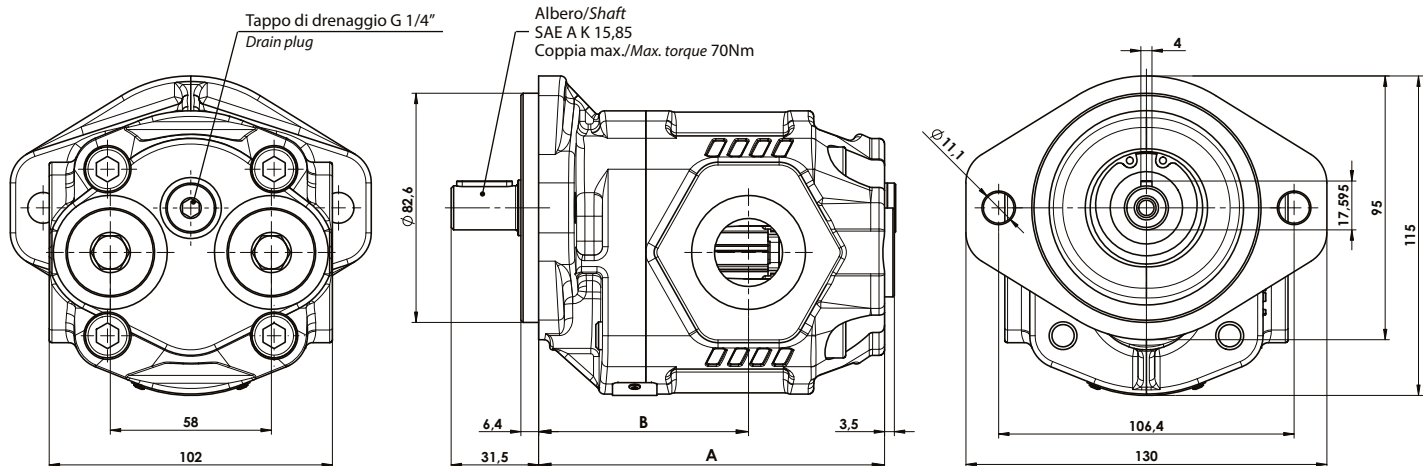


**MOTORE AD INGRANAGGI REVERSIBILI SAE A  
SAE A REVERSIBLE HYDRAULIC MOTOR  
MPLH SAE A - ALBERO/SHAFT Ø15,85**



Fluido idraulico <i>Fluid</i>	Minerale o sintetico compatibile con guarnizioni: NBR, FKM, FPM, Nylon <i>Mineral or synthetic compatible with the following seals: NBR, FKM, FPM, Nylon</i>					
Viscosità cinematica consigliata <i>Kinematic viscosity suggested</i>	T media ambiente (°C) <i>Average ambient temp. (°C)</i>	< -10	-10÷10	10÷35	> 35	
	VG (cSt = mm²/s)	22	32	46	68	
Viscosità cinematica ottimale di esercizio <i>Optimale kinematic viscosity</i>	VG= 10 cSt ÷ 100 cSt					
Viscosità cinematica max consentita all'avviamento <i>Max kinematic viscosity suggested at the start-up</i>	VG= 750 cSt					
Indice di viscosità consigliato <i>Viscosity index suggested</i> VI > 100	Temperatura di esercizio <i>Working temperature</i> -15°C ÷ 100°C					
Grado di filtrazione <i>Oil filtering</i>	> 200 bar: 10 µm < 200 bar: 25 µm					
Senso di rotazione <i>Pump rotation</i>	Bidirezionale <i>Bidirectional</i>					

**Ingombro / Dimensions**



**Dati tecnici / Technical data**

Tipo motore <i>Motor type</i>	Codice ordinazione <i>Order code</i>	IN	OUT	A	B	Peso <i>Weight</i>
		ISO 228	ISO 228	mm	mm	Kg
<b>MPLH 10</b>	11093430109	G1/2	G1/2	100	28	3,4
<b>MPLH 12</b>	11093430127			110	25,5	3,9
<b>MPLH 16</b>	11093430163			117	32	4,2
<b>MPLH 20</b>	11093430207			125	37	4,7
<b>MPLH 25</b>	11093430252	G3/4	G3/4			

Tipo motore <i>Motor type</i>	Cilindrata <i>Displacement</i>	Potenza <i>Power</i>		Coppia prelevabile <i>Torque</i>		Pressione di lavoro <i>Working pressure</i>		Velocità max. continua <i>Max. continuous speed</i>	Velocità max. intermittente <i>Max. intermittent speed</i>	Velocità min. <i>Min. speed</i>		
		kW1	kW2	P1	P2	P1	P2					
	cm³/rev	kW	kW	Nm	Nm	bar	bar	rpm	rpm	rpm		
<b>MPLH 10</b>	10,06	8,8	13,3	38,1	42,2	280	310	2200	3000	300		
<b>MPLH 12</b>	11,92	10,4	15,7	45,2	50,0							
<b>MPLH 16</b>	16,03	14,0	21,1	60,7	67,2							
<b>MPLH 20*</b>	20,1	16,0	21,8	69,3	69,3						255*	255*
<b>MPLH 25*</b>	25,1	14,6	18,2	69,6	69,6						205*	205*

\* Per pressioni di lavoro superiori a quelle indicate contattare servizio tecnico commerciale / For higher working pressures, please contact our technical sales service

kW1 = Potenza massima continua *Max. Power continual* (100%)  
 kW2 = Potenza massima intermittente *Max. Power intermittent* (10 sec.max.)  
 P1 = Pressione max.continua *Max. continuous pressure* (100%)  
 P2 = Pressione max. intermittente *Max. Intermittent pressure* (10 sec.max.)

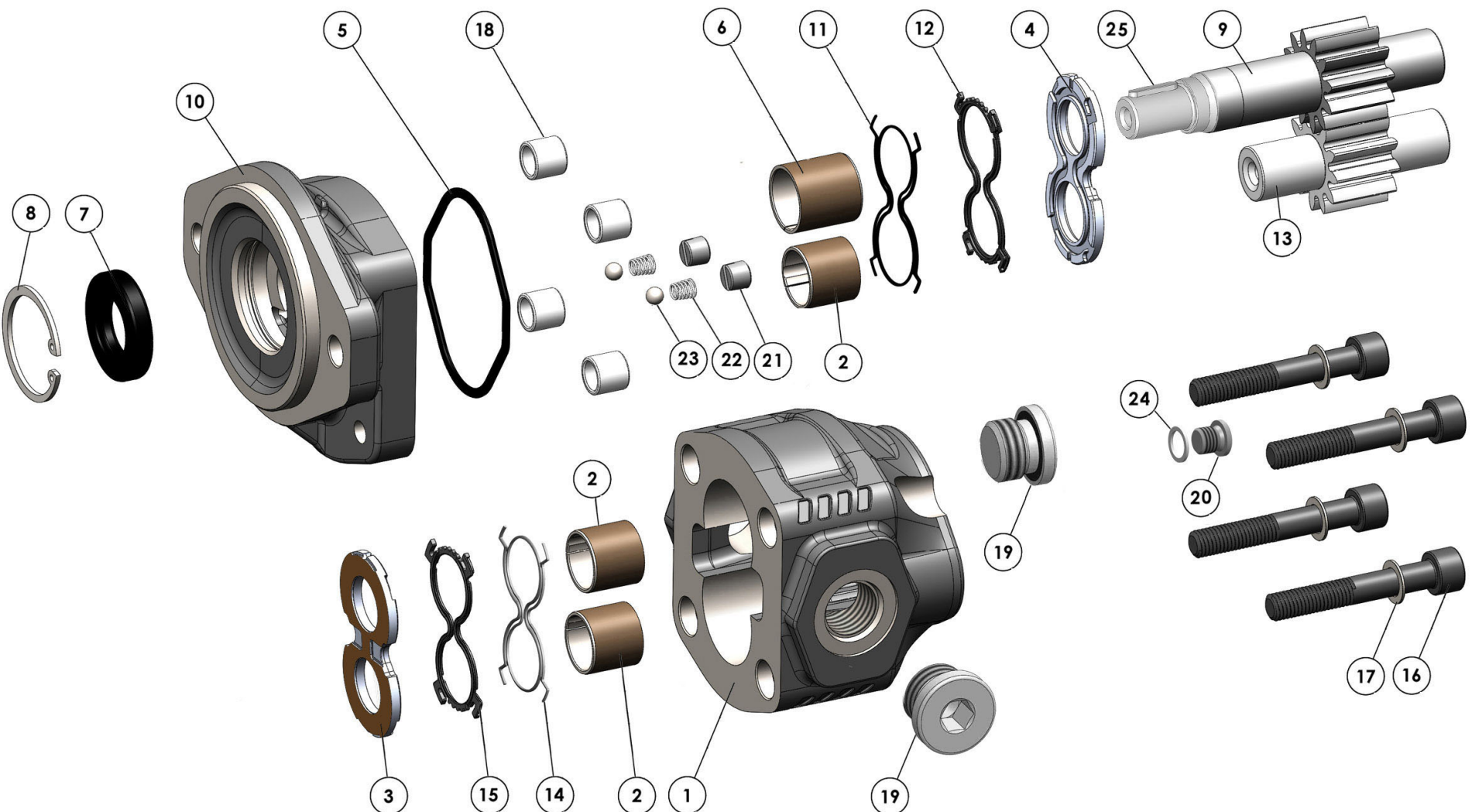
- |                             |                            |                                 |                                |                          |
|-----------------------------|----------------------------|---------------------------------|--------------------------------|--------------------------|
| Алматы (7273)495-231        | Иваново (4932)77-34-06     | Магнитогорск (3519)55-03-13     | Ростов-на-Дону (863)308-18-15  | Тольятти (8482)63-91-07  |
| Ангарск (3955)60-70-56      | Ижевск (3412)26-03-58      | Москва (495)268-04-70           | Рязань (4912)46-61-64          | Томск (3822)98-41-53     |
| Архангельск (8182)63-90-72  | Иркутск (395)279-98-46     | Мурманск (8152)59-64-93         | Самара (846)206-03-16          | Тула (4872)33-79-87      |
| Астрахань (8512)99-46-04    | Казань (843)206-01-48      | Набережные Челны (8552)20-53-41 | Санкт-Петербург (812)309-46-40 | Тюмень (3452)66-21-18    |
| Барнаул (3852)73-04-60      | Калининград (4012)72-03-81 | Новый Новгород (831)429-08-12   | Саратов (845)249-38-78         | Ульяновск (8422)24-23-59 |
| Белгород (4722)40-23-64     | Калуга (4842)92-23-67      | Новокузнецк (3843)20-46-81      | Севастополь (8692)22-31-93     | Улан-Удэ (3012)59-97-51  |
| Благовещенск (4162)22-76-07 | Кемерово (3842)65-04-62    | Новый Орск (3496)41-32-12       | Саранск (8342)22-96-24         | Уфа (347)229-48-12       |
| Брянск (4832)59-03-52       | Киров (8332)68-02-04       | Новосибирск (383)227-86-73      | Симферополь (3652)67-13-56     | Хабаровск (4212)92-98-04 |
| Владивосток (423)249-28-31  | Коломна (4966)23-41-49     | Омск (3812)21-46-40             | Смоленск (4812)29-41-54        | Чебоксары (8352)28-53-07 |
| Владикавказ (8672)28-90-48  | Кострома (4942)77-07-48    | Орел (4862)44-53-42             | Сочи (862)225-72-31            | Челябинск (351)202-03-61 |
| Владимир (4922)49-43-18     | Краснодар (861)203-40-90   | Оренбург (3532)37-68-04         | Ставрополь (8652)20-65-13      | Череповец (8202)49-02-64 |
| Волгоград (844)278-03-48    | Красноярск (391)204-63-61  | Пенза (8412)22-31-16            | Сургут (3462)77-98-35          | Чита (3022)38-34-83      |
| Вологда (8172)26-41-59      | Курск (4712)77-13-04       | Петрозаводск (8142)55-98-37     | Сыктывкар (8212)25-95-17       | Череповец (8202)49-02-64 |
| Воронеж (473)204-51-73      | Курган (3522)50-90-47      | Псков (8112)59-10-37            | Тамбов (4752)50-40-97          | Чита (3022)38-34-83      |
| Екатеринбург (343)384-55-89 | Липецк (4742)52-20-81      | Пермь (342)205-81-47            | Тверь (4822)63-31-35           | Якутск (4112)23-90-97    |
|                             |                            |                                 |                                | Ярославль (4852)69-52-93 |

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N°	10	12	16	20	25	Codice / P. Number	Descrizione / Description	Q.	
1	•					51703800108	Corpo motore	Motor housing	1
		•				51703800126			
			•			51703800162			
				•		51703800206			
					•	51703800251			
2	•	•	•	•	•	53300400122	Boccola autolub. 20x23x20	Bushing 20x23x20	3
3	•	•	•	•	•	51001000257A	Rasamento ad occhiale	Thrust plate	1
4	•	•	•	•	•	51001000239A	Rasamento ad occhiale	Thrust plate	1
5	•	•	•	•	•	50600200701	Guarnizione OR 3256	O-ring 3256	1
6	•	•	•	•	•	53300400113	Boccola autolub. 22x25x25	Bushing 22x25x25	1
7	•	•	•	•	•	50602422405	Guarnizione paraolio 22x40x7 alta press.	Oil seal 22x40x7 high press.	1
8	•	•	•	•	•	50100100373	Anello seeger 40 I	Seeger ring 40 I	1
9	•					52301400103	Albero dentato conduttore	Drive shaft	1
		•				52301400121			
			•			52301400167			
				•		52301400201			
					•	52301400256			
10	•	•	•	•	•	51800300456	Coperchio anteriore	Mounting cover	1
11	•	•	•	•	•	50699902345	Guarnizione antiestrusione	Back-up ring	1
12	•	•	•	•	•	50600002587	Guarnizione per rasamento	Thrust plate seal	1
13	•					52301500111	Albero dentato condotto	Driven shaft	1
		•				52301500139			
			•			52301500175			
				•		52301500219			
					•	52301500264			
14	•	•	•	•	•	50699902390	Guarnizione antiestrusione	Back-up ring	1
15	•	•	•	•	•	50600002596	Guarnizione per rasamento	Thrust plate seal	1
16	•	•				50200400609	Vite TCE M10x55	Screw M10x55	4
			•			50200410652	Vite TCE M10x65	Screw M10x65	
				•		50200410705	Vite TCE M10x70	Screw M10x70	
					•	50200410803	Vite TCE M10x80	Screw M10x80	
17	•	•	•	•	•	50102000101	Rondella elastica	Washer	4
18	•	•	•	•	•	50100300282	Spine forate di centraggio 14x12.5	Pins 14x12.5	4
19	•	•	•	•		11500900043	Tappo 1/2 con guarnizione	Plug 1/2 with gasket	2
					•	11500900052	Tappo 3/4 con guarnizione	Plug 3/4 with gasket	
20	•	•	•	•	•	11500600117	Tappo Acciaio 1/4"	Steel plug 1/4"	1
21	•	•	•	•	•	50400000412	Grano valvola lubrificazione	Lube valve screw	2
22	•	•	•	•	•	51200400251	Molla conica	Tapered spring	2
23	•	•	•	•	•	51000900054	Sfera 1/4"	Ball 1/4"	2
24	•	•	•	•	•	11600900158	Rondella alluminio 1/4"	Aluminium washer 1/4"	1
25	•	•	•	•	•	50100500459	Linguetta 6x6x32 FORM. A UNI 6604	Key 6x6x32 FORM. A UNI 6604	1



MOTORE AD INGRANAGGI REVERSIBILI SAE A  
SAE A REVERSIBLE HYDRAULIC MOTOR  
MPLH SAE A - ALBERO/SHAFT Ø15,85

Fam. 1109343

**Note / Notes**

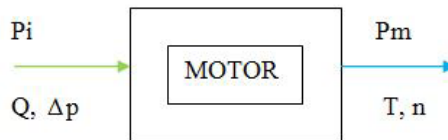
Pressione max sullo scarico dei motori unidirezionali e reversibili con drenaggio interno 5 bar  
*Max back pressure for single rotation motors and reversible internal drain motors 5 bar*

Pressione max sul drenaggio dei motori reversibili 5 bar  
*Max drain line pressure on reversible rotation motors 5 bar*

Pressione max sullo scarico dei motori reversibili (con drenaggio esterno) in serie 150 bar  
*Max back pressure on the series motors (reversible motors external drain) 150 bar*

Per condizioni di lavoro superiori a quelle indicate, contattare il servizio tecnico commerciale per valutare il paraolio piu' idoneo alla vostra applicazione.  
*In case of applications, with different working conditions, please contact our technical sales service to find the most suitable shaft seal.*

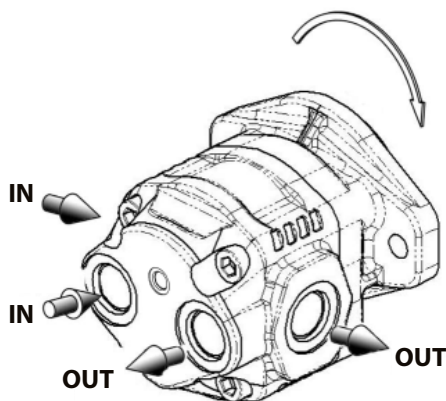
$P_i$  = potenza idraulica in ingresso [kW]  
 $P_m$  = potenza meccanica in uscita [kW]  
 $T$  = coppia resa [Nm]  
 $n$  = velocità [rpm]  
 $\Delta p$  = pressione [bar]  
 $c$  = cilindrata  
 $\eta_v$  = rendimento volumetrico  
 $\eta_m$  = rendimento meccanico



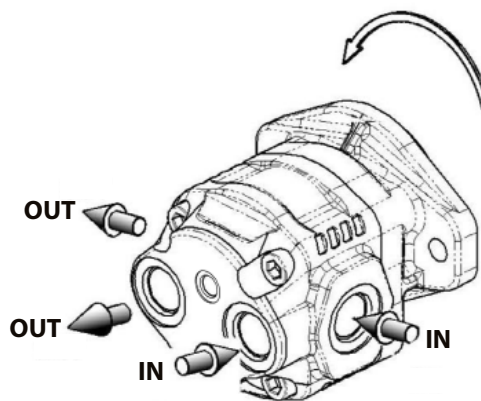
$$P_i = \frac{Q \cdot \Delta p}{600} \quad P_m = \frac{T \cdot n}{9550} \quad T = \frac{c \cdot \Delta p}{62,8} \eta_m$$

$P_i$  = hydraulic power IN [kW]  
 $P_m$  = mechanical power OUT [kW]  
 $T$  = torque [Nm]  
 $n$  = speed [rpm]  
 $\Delta p$  = pressure [bar]  
 $c$  = displacement  
 $\eta_v$  = volumetric efficiency  
 $\eta_m$  = mechanical efficiency

**Rotazione antioraria, motore sinistro**  
*Anti-clockwise rotation, left motor*

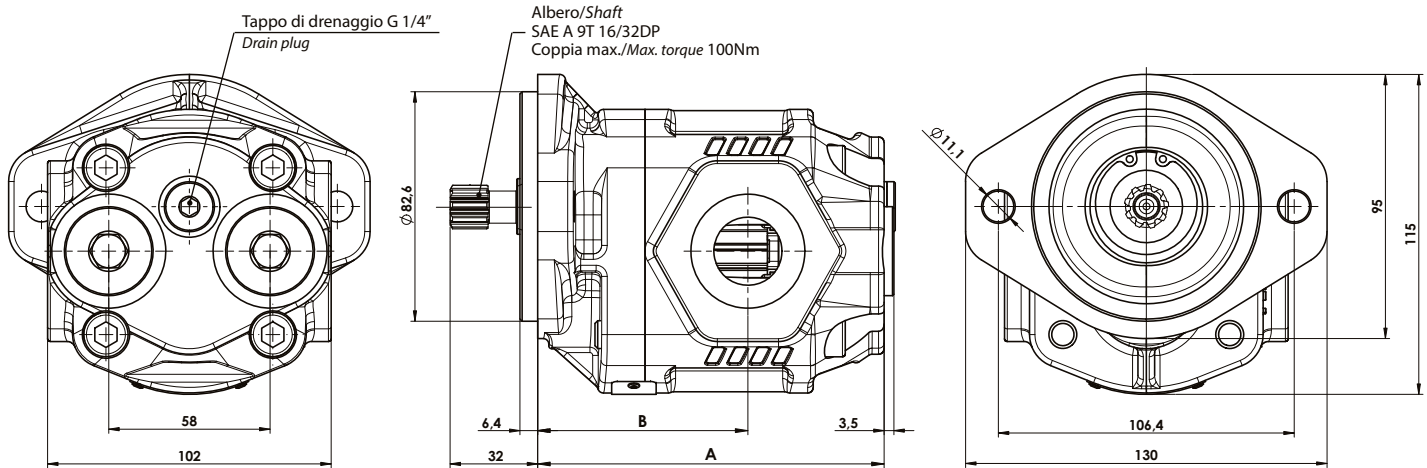


**Rotazione oraria, motore destro**  
*Clockwise rotation, RIGHT motor*





Fluido idraulico <i>Fluid</i>	Minerale o sintetico compatibile con guarnizioni: NBR, FKM, FPM, Nylon <i>Mineral or synthetic compatible with the following seals: NBR, FKM, FPM, Nylon</i>				
Viscosità cinematica consigliata <i>Kinematic viscosity suggested</i>	T media ambiente (°C) <i>Average ambient temp. (°C)</i>	< -10	-10÷10	10÷35	> 35
	VG (cSt = mm <sup>2</sup> /s)	22	32	46	68
Viscosità cinematica ottimale di esercizio <i>Optimale kinematic viscosity</i>	VG= 10 cSt ÷ 100 cSt				
Viscosità cinematica max consentita all'avviamento <i>Max kinematic viscosity suggested at the start-up</i>	VG= 750 cSt				
Indice di viscosità consigliato <i>Viscosity index suggested</i> VI > 100	Temperatura di esercizio <i>Working temperature</i> -15°C ÷ 100°C				
Grado di filtrazione <i>Oil filtering</i>	> 200 bar: 10 µm < 200 bar: 25 µm				
Senso di rotazione <i>Pump rotation</i>	Bidirezionale <i>Bidirectional</i>				

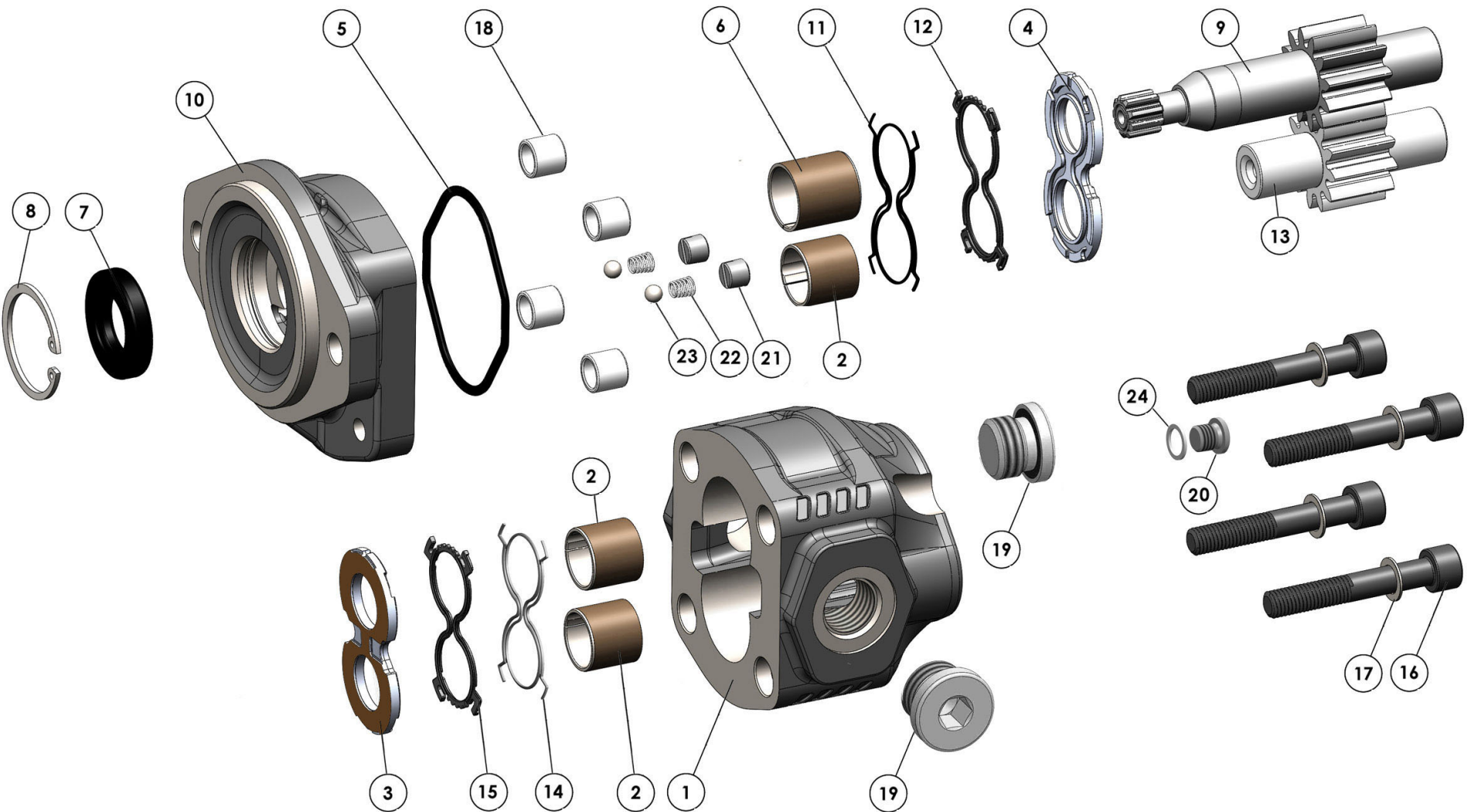
**Ingombro / Dimensions**

**Dati tecnici / Technical data**

Tipo motore <i>Motor type</i>	Codice ordinazione <i>Order code</i>	IN	OUT	A	B	Peso <i>Weight</i>
		ISO 228	ISO 228	mm	mm	
<b>MPLH 10</b>	11093400105	G1/2	G1/2	100	67	3,4
<b>MPLH 12</b>	11093400123			110	64,5	3,9
<b>MPLH 16</b>	11093400169			117	71	4,2
<b>MPLH 20</b>	11093400203			G3/4	G3/4	125
<b>MPLH 25</b>	11093400258					

Tipo motore <i>Motor type</i>	Cilindrata <i>Displacement</i>	Potenza <i>Power</i>		Coppia prelevabile <i>Torque</i>		Pressione di lavoro <i>Working pressure</i>		Velocità max. continua <i>Max. continuous speed</i>	Velocità max. intermittente <i>Max. intermittent speed</i>	Velocità min. <i>Min. speed</i>
		kW1	kW2	P1	P2	P1	P2			
		cm <sup>3</sup> /rev	kW	kW	Nm	Nm	bar			
<b>MPLH 10</b>	10,06	8,8	13,3	38,1	42,2	280	310	2200	3000	300
<b>MPLH 12</b>	11,92	10,4	15,7	45,2	50,0					
<b>MPLH 16</b>	16,03	14,0	21,1	60,7	67,2					
<b>MPLH 20</b>	20,1	16,3	23,1	70,7	73,4	260	270	2000	2500	
<b>MPLH 25</b>	25,1	15,6	19,6	74,7	74,7	220	220			

kW1 = Potenza massima continua  
 kW2 = Potenza massima intermittente  
 P1 = Pressione max.continua  
 P2 = Pressione max. intermittente

Max. Power continual (100%)  
 Max. Power intermittent (10 sec.max.)  
 Max. continuous pressure (100%)  
 Max. Intermittent pressure (10 sec.max.)



N°	10	12	16	20	25	Codice / P. Number	Descrizione / Description	Q.	
1	.					51703800108	Corpo motore	Motor housing	1
		.				51703800126			
			.			51703800162			
				.		51703800206			
					.	51703800251			
2	.	.	.	.	.	53300400122	Boccola autolub. 20x23x20	Bushing 20x23x20	3
3	.	.	.	.	.	51001000257A	Rasamento ad occhiale	Thrust plate	1
4	.	.	.	.	.	51001000239A	Rasamento ad occhiale	Thrust plate	1
5	.	.	.	.	.	50600200701	Guarnizione OR 3256	O-ring 3256	1
6	.	.	.	.	.	53300400113	Boccola autolub. 22x25x25	Bushing 22x25x25	1
7	.	.	.	.	.	50602422405	Guarnizione paraolio 22x40x7 alta press.	Oil seal 22x40x7 high press.	1
8	.	.	.	.	.	50100100373	Anello seeger 40 l	Seeger ring 40 l	1
9	.					52301800109	Albero dentato conduttore	Drive shaft	1
		.				52301800127			
			.			52301800163			
				.		52301800207			
					.	52301800252			
10	.	.	.	.	.	51800300456	Coperchio anteriore	Mounting cover	1
11	.	.	.	.	.	50699902345	Guarnizione antiestrusione	Back-up ring	1
12	.	.	.	.	.	50600002587	Guarnizione per rasamento	Thrust plate seal	1
13	.					52301500111	Albero dentato condotto	Driven shaft	1
		.				52301500139			
			.			52301500175			
				.		52301500219			
					.	52301500264			
14	.	.	.	.	.	50699902390	Guarnizione antiestrusione	Back-up ring	1
15	.	.	.	.	.	50600002596	Guarnizione per rasamento	Thrust plate seal	1
16	.	.				50200400609	Vite TCE M10x55	Screw M10x55	4
			.			50200410652	Vite TCE M10x65	Screw M10x65	
				.		50200410705	Vite TCE M10x70	Screw M10x70	
					.	50200410803	Vite TCE M10x80	Screw M10x80	
17	.	.	.	.	.	50102000101	Rondella elastica	Washer	4
18	.	.	.	.	.	50100300282	Spine forate di centraggio 14x12.5	Pins 14x12.5	4
19	.	.	.	.		11500900043	Tappo 1/2 con guarnizione	Plug 1/2 with gasket	2
					.	11500900052	Tappo 3/4 con guarnizione	Plug 3/4 with gasket	
20	.	.	.	.	.	11500600117	Tappo Acciaio 1/4"	Steel plug 1/4"	1
21	.	.	.	.	.	50400000412	Grano valvola lubrificazione	Lube valve screw	2
22	.	.	.	.	.	51200400251	Molla conica	Tapered spring	2
23	.	.	.	.	.	51000900054	Sfera 1/4"	Ball 1/4"	2
24	.	.	.	.	.	11600900158	Rondella alluminio 1/4"	Aluminium washer 1/4"	1

**Note / Notes**

Pressione max sullo scarico dei motori unidirezionali e reversibili con drenaggio interno 5 bar  
*Max back pressure for single rotation motors and reversible internal drain motors 5 bar*

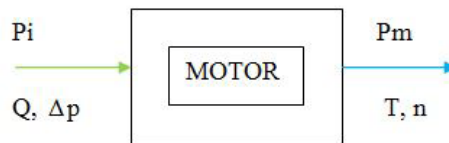
Pressione max sul drenaggio dei motori reversibili 5 bar  
*Max drain line pressure on reversible rotation motors 5 bar*

Pressione max sullo scarico dei motori reversibili (con drenaggio esterno) in serie 150 bar  
*Max back pressure on the series motors (reversible motors external drain) 150 bar*

Per condizioni di lavoro superiori a quelle indicate, contattare il servizio tecnico commerciale per valutare il paraolio piu' idoneo alla vostra applicazione.  
*In case of applications, with different working conditions, please contact our technical sales service to find the most suitable shaft seal.*

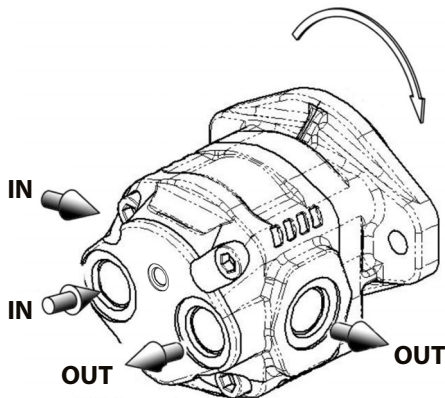
Pi = potenza idraulica in ingresso [kW]  
Pm = potenza meccanica in uscita [kW]  
T = coppia resa [Nm]  
n = velocità [rpm]  
Δp = pressione [bar]  
c = cilindrata  
ηv = rendimento volumetrico  
ηm = rendimento meccanico

Pi = hydraulic power IN [kW]  
Pm = mechanical power OUT [kW]  
T = torque [Nm]  
n = speed [rpm]  
Δp = pressure [bar]  
c = displacement  
ηv = volumetric efficiency  
ηm = mechanical efficiency

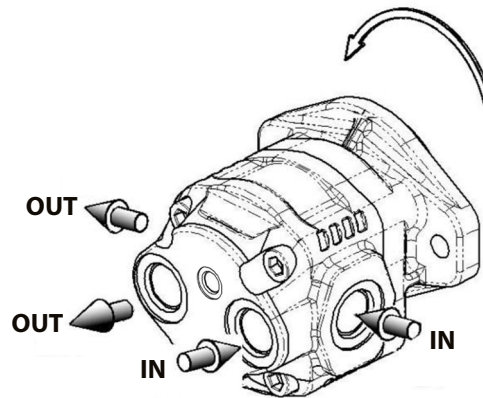


$$P_i = \frac{Q \cdot \Delta p}{600} \quad P_m = \frac{T \cdot n}{9550} \quad T = \frac{c \cdot \Delta p}{62,8} \eta_m$$

**Rotazione antioraria, motore sinistro**  
*Anti-clockwise rotation, left motor*



**Rotazione oraria, motore destro**  
*Clockwise rotation, RIGHT motor*



Алматы (7273)495-231  
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Архангельск (8182)63-90-72  
Астрахань (8512)99-46-04  
Барнаул (3852)73-04-60  
Белгород (4722)40-23-64  
Благовещенск (4162)22-76-07  
Брянск (4832)59-03-52  
Владивосток (423)249-28-31  
Владикавказ (8672)28-90-48  
Владимир (4922)49-43-18  
Волгоград (844)278-03-48  
Вологда (8172)26-41-59  
Воронеж (473)204-51-73  
Екатеринбург (343)384-55-89

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Иваново (4932)77-34-06  
Ижевск (3412)26-03-58  
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