

Intermot Hydraulic Motors

GEARBOX PR Series

TECHNICAL CATALOGUE

INDEX

GENERAL INFORMATION	Pag. 2
OUTPUT AND INPUT FITTINGS	Pag. 6
ORDERING INSTRUCTIONS	Pag. 8
PR 100	Pag. 9
PR 160	Pag. 12
PR 250	Pag. 15
PR 500	Pag. 18
PR 700	Pag. 21
PR 1000	Pag. 24
PR 1600	Pag. 27
PR 1800	Pag. 30
PR 2500	Pag. 33
PR 3000	Pag. 36
PR 3500	Pag. 39
PR 5000	Pag. 42
PR 6500	Pag. 45
PR 9000	Pag. 48
INPUT SHAFTS	Pag. 51
OUTPUT ACCESSORIES	Pag. 52
MODULAR BRAKES	Pag. 55
MOTOR ADAPTORS	Pag. 56
OPTIONAL	Pag. 63

General Information

La famiglia di riduttori epicicloidali PR è offerta al mercato in 21 grandezze di base, selezionate in funzione dei momenti torcenti che possono essere trasmessi all'albero di uscita, che vanno da 0.05 kNm fino a 65 kNm. La modularità del prodotto permette l'accoppiamento ai riduttori epicicloidali di coppie coniche, riduttori vite senza fine, freni idraulici, diversi tipi di alberi di ingresso, nonché di flange per l'accoppiamento diretto a motori idraulici o elettrici.

Un altro grande vantaggio derivante dalla modularità dei riduttori epicicloidali è la possibilità del montaggio in serie di stadi di differenti grandezze, in modo da ottenere una vastissima gamma di rapporti di riduzione. La gamma di prodotti offre rapporti di riduzione da 3:1 a 7:1 per i riduttori a singolo stadio fino a 10.000:1 e oltre per i riduttori a 5 stadi di riduzione. Le diverse opzioni di albero e flangiatura in uscita semplificano l'installazione del riduttore su applicazioni mobili e impianti fissi industriali.

Caratteristiche Tecniche

La conoscenza e l'esatta interpretazione dei dati riportati sul presente catalogo sono condizione indispensabile per la scelta e l'impiego corretto dei prodotti presentati.

È importante quindi definire alcuni parametri caratteristici:

- Rapporto di trasmissione i

È il valore effettivo del rapporto tra la velocità di entrata n1 e la velocità di uscita n2. Viene indicato per ogni tipo di riduttore nella relativa scheda tecnica.

- Velocità massima in entrata n1max [min-1]

Rappresenta il valore massimo accettabile per ogni grandezza di riduttore, in condizioni di funzionamento intermittente. Per applicazioni in servizio continuo o per velocità superiori a quelle indicate, il Servizio Tecnico Commerciale è a disposizione per ulteriori chiarimenti.

I valori della velocità massima in entrata per ogni tipo di riduttore sono illustrati nelle singole schede tecniche.

- Rendimento

Nella trasmissione epicicloidale, il rendimento è generalmente elevato, mediamente 0,97- 0,98 per ogni stadio di riduzione. Questo dato indicativo si riduce nel caso di funzionamenti a velocità elevate o nel caso di riduttori in versione angolare.

- Coppia continua Mc [kNm]

È la coppia per cui il valore delle sollecitazioni sugli ingranaggi è pari al valore limite secondo le norme internazionali ISO 6336. Questo valore convenzionale corrisponde ad una durata di vita teorica illimitata degli ingranaggi, tenendo conto sia della sollecitazione a flessione che della resistenza superficiale del dente (pressione di Hertz).

Ai fini della scelta del riduttore questo valore va posto in riferimento alla COSTANTE DI DURATA nxh espressa nel Diagramma 1 dove:

n = velocità in uscita (min-1)

h = durata di funzionamento (ore).

Per semplicità di consultazione, nella scheda tecnica di prodotto sono riportati i valori di Mc corrispondenti ad un valore nxh prefissato.

- Coppia Massima Mmax [kNm]

È il valore massimo di coppia che il riduttore può trasmettere per breve tempo senza che si verifichino danneggiamenti ai suoi componenti interni ed alla sua struttura. Tale valore deve essere considerato come una coppia massima dovuta a picchi o spunti di avviamento e mai come coppia di lavoro; il valore Mmax deve inoltre essere opportunamente valutato in quegli azionamenti che comportano un elevato numero di avviamenti o inversioni. Il valore Mmax è indicato nelle schede tecniche di prodotto.

PR planetary gear units are divided into 21 basic groups depending on the different torques that are to be transmitted to the output shaft, which can vary from 0.05 to 65 kNm. In fact, the product modular construction permits the coupling of bevel gears, worm gears, hydraulic brakes and a variety of input shafts to the planetary units, as well as providing for a wide choice of coupling flanges for hydraulic or electric motors. Another advantage offered by the modular construction technique of the planetary gear units is the possibility to mount a series of stages of different sizes in order to obtain a vast range of reduction ratios. The product range provides reduction ratios from 3:1 to 7:1 on a single stage unit up to 10.000:1 and more on a 5 stage unit.

The wide selection of output shafts and flanges simplifies the reduction unit mounting operation on industrial machinery or plants.

General Technical Information

The knowledge and correct interpretation of the information given in this catalogue are necessary starting-points for the best selection and use of the products. It is important to determine some distinctive parameters, such as:

- Reduction ratio i

This is the ratio of input speed n1 to output speed n2. The value for each planetary gear is shown in the relative technical card.

- Maximum input speed n1max [min-1]

This is the maximum speed allowed for each size of planetary gear under conditions of intermittent work. In continuous duty or speeds greater than the ones indicated, please contact the Technical-Commercial Service Department.

Maximum input values for each type of planetary gear are depicted in the single technical card.

- Efficiency

The efficiency is usually high in planetary transmission; i.e., the average value ranges between 0.97 and 0.98 for each reduction stage. This approximate value decreases under conditions of high speed or in applications with bevel gears.

- Continuous Torque Mc [kNm]

This is the torque value related to the maximum value of the stress on the gears according to the international standards ISO 6336. This conventional torque value corresponds to the unlimited theoretic life of the gears, taking into consideration the bending stress as well as the surface strength of the tooth (Hertz pressure).

In regard to the selection of the planetary gear, this value represents the CONSTANT OF LIFETIME nxh as shown in Curve 1 where:

n = output speed (min-1)

h = working time (hours)

In order to simplify your consultation, the single product technical cards show the Mc values referring to a fixed n2xh value.

- Maximum torque Mmax [kNm]

This is the maximum output torque that the planetary unit can transmit in a short time without causing damage to the internal components and structure. This value must be considered as the maximum output torque due to working or starting peaks and never as the continuous working torque. It also must be carefully evaluated in those applications with a high number of starts or setting ups. The Mmax value is shown in the single product technical cards.

- Temperatura di funzionamento

Le temperature dell'olio a cui i riduttori possono funzionare sono quelle comprese tra -20°C e + 90°C. Temperature al di fuori di questa fascia possono essere accettate se si prevedono particolari accorgimenti relativi ai tipi di lubrificante e di guarnizioni utilizzati. Tali accorgimenti possono essere decisi caso per caso, d'accordo con il Servizio Tecnico-Commerciale.

- Potenza termica Pt [kW]

È la potenza massima trasmissibile dal riduttore in funzionamento continuo con lubrificazione normale a sbattimento, senza che l'olio superi la temperatura di 90°C. I valori di Pt riportati nelle singole schede tecniche di prodotto sono valori massimi espressi alle seguenti condizioni di impiego:

- servizio continuo
- velocità n1 = 1500 min-1
- olio ISO VG 150
- posizione di montaggio orizzontale
- temperatura ambiente 20°C.

Qualora la potenza richiesta ecceda i valori indicati nella scheda tecnica del riduttore sarà necessario prevedere un sistema di raffreddamento del lubrificante. Per i riduttori con piedi (dalla grandezza PR 100 alla grandezza PR 1600) il valore di Pt può essere incrementato del 15%.

Nel caso le caratteristiche di impiego siano diverse, si può applicare ai valori di Pt un fattore correttivo fk, come indica la Tabella 1, di seguito riportata:

N.B. Si noti che la Pt è riferita alla potenza effettivamente trasmessa dal riduttore, da non confondere quindi con la potenza del motore su di esso installato, che per vari motivi potrebbe essere superiore. Per ulteriori dettagli si prega di contattare il Servizio Tecnico-Commerciale.

Norme Generali Per L'installazione e la Manutenzione

Per garantire un buon funzionamento dei riduttori ed una miglior durata nel tempo è necessario un corretto accoppiamento alla struttura cui viene fissato il gruppo. Pertanto le superfici di tale struttura dovranno essere lavorate con centraggi in H8 ed in modo da garantire un'ottima planarità e perpendicolarità con l'asse del riduttore.

Per il fissaggio del riduttore, usare la bulloneria indicata sotto ogni disegno nelle schede tecniche di prodotto. Usare inoltre tutti i fori di fissaggio previsti sulle flange dei riduttori. Per gruppi installati all'aperto si consiglia, dove possibile, di proteggere i riduttori dalle intemperie, di trattarli con sistemi anticorrosivi e di proteggere i paraoli con grasso idrorepellente.

Nelle applicazioni in cui possono verificarsi sovraccarichi accidentali tali da compromettere l'integrità della trasmissione, occorre prevedere un sistema di sicurezza (idraulico, meccanico) per salvaguardare il riduttore.

L'abbinamento fra riduttori e motori, principalmente elettrici o idraulici, viene normalmente fatto mediante flangiatura diretta quando non si presentano particolari condizioni di criticità, che possono provocare danni dopo l'installazione. A tale proposito, ove è richiesto di installare motori molto pesanti, oltre i 100 Kg, consigliamo di contattare il nostro Servizio Tecnico-Commerciale, per meglio valutare l'applicazione in funzione della posizione di montaggio. In alternativa, si consiglia un montaggio separato dei due particolari collegati mediante giunto o pulegge.

Gruppi con fissaggio a flangia avanzata o senza flangia

- FLANGIA Riduttori con albero lento maschio (M-P)

Per tali gruppi, quando i carichi sono superiori del 50% rispetto a quelli indicati nei grafici riportati nelle singole schede di prodotto, si consiglia di utilizzare entrambi i centraggi previsti sulla scatola lato uscita. In tutti i casi, invece, devono essere utilizzati i centraggi previsti sugli alberi scanalati, soprattutto quando vengono montati dei pignoni dentati.

- Working Temperature

The working oil temperature of the planetary gears should range between -20°C and + 90°C. Temperatures falling outside this range could be accepted only if special lubricants and gaskets are used. For further information, please contact the Technical-Commercial Service Department.

- Thermal Power Pt [kW]

The thermal power is the maximum power the planetary unit can transmit in continuous duty with normal turbulence lubrication and without exceeding an oil temperature of 90°C. The Pt values shown in the single product technical card indicate the maximum values at the following duty conditions:

- continuous duty
- speed n1 = 1500 min-1
- oil ISO VG 150
- horizontal mounting position
- room temperature 20°C.

If the required power exceeds the values indicated in the planetary gear technical card, a lubricant cooling system is needed.

For foot mounted reduction units (from PG 100 serie to PG 1600 serie) the Pt value can be increased by 15%. If the duty characteristics differ, you can apply a corrective factor fk to the Pt values as indicated in the following Table 1:

NOTE. Please note that the Pt refers to the power actually transmitted by the planetary gear unit. Do not mistake it with the power of the motor mounted on it which for various reasons could be greater. For further details please contact the Technical-Commercial Service Department.

General Mounting and Maintenance Instructions

In order to ensure proper running and long life, the planetary unit must be mounted correctly. Always ensure that all mounting faces are flat and that the axis of the holes for spigot, which must have a tolerance H8, are perpendicular to the mounting face.

To fasten gear unit use the bolt and nuts shown under each technical drawings in the product technical cards. Make sure that all the fixing holes on the flanges are used. We recommend to protect the gear units mounted in open air from bad weather by treating them with anticorrosive agents and to protect the oil seals with water-repellent grease.

In operations in which there could be malfunctions due to accidental overloading a mechanical or hydraulic safety device must be used in order to safeguard the transmission. The assembly of the gear unit to the motors, electric or hydraulic, is usually done by means of direct flanges when no particularly critical conditions exist which could cause damage after installation. In connection with this, where the installation of heavy motors (over Kg 100) is required, please get in touch with our Technical-Commercial service Department, to evaluate the proper mounting position. In alternative, we suggest to separately mount the two units and to connect them by means of a coupling or pulley.

Units with flange clamping or without flange mounting

- Planetary units with male output shaft (M-P)

For these units, when the loads are 50% greater than the ones indicated in the single product technical card, we suggest the use of both spigots in the side flange.

In all other cases, especially when toothed pinions are mounted, both spigots on splined output shafts must be used.

Nelle applicazioni dove si verificano condizioni di forti carichi esterni agenti contemporaneamente sia sull'uscita che sull'entrata, si consiglia di contattare il nostro Servizio Tecnico-Commerciale.

- Riduttori con albero lento femmina (F)

Per la tipologia di costruzione questi riduttori sono idonei alla trasmissione della pura coppia. Occorre quindi curare particolarmente la coassialità e l'ortogonalità nel collegamento con l'albero condotto.

- Riduttori a basamento con piedi (CPC)

Anche per questi gruppi occorre che siano verificate le condizioni di fissaggio relative a coassialità ed ortogonalità già elencate all'inizio di questo capitolo. Occorre inoltre controllare adeguatamente l'allineamento del gruppo con la macchina da movimentare. Se si hanno dei dubbi sulla perfetta riuscita di tale operazione, utilizzare un collegamento non rigido fra riduttore e macchina, ad esempio un giunto elastico. Durante l'installazione considerare che il riduttore così montato non deve essere soggetto a fenomeni di vibrazione.

- Riduttori per montaggio pendolare (FS)

Per l'installazione di questi riduttori si prescrive l'applicazione di un braccio di reazione che rispetti le lunghezze minime riportate a disegno per ogni singolo gruppo. Inoltre, si consiglia di ammortizzare il vincolo di reazione con elementi in gomma e/o ammortizzatori. In caso di applicazione di motori molto pesanti o di montaggio con cinghia sul lato entrata, contattare il nostro Servizio Tecnico-Commerciale per verificare l'installazione. In questi casi si producono, infatti, carichi esterni che, aggiungendosi a quelli della trasmissione, possono ridurre sensibilmente la vita dei cuscinetti, compromettere l'efficacia del serraggio dell'anello calettatore o influire sulla resistenza dell'albero.

Per garantire un efficiente accoppiamento riduttore-utente, occorre sgrassare opportunamente la superficie interna dell'albero del riduttore e il relativo albero maschio di accoppiamento.

Per un corretto serraggio dell'anello calettatore si raccomanda di "stringere" le viti in modo graduale ed uniforme, con sequenza continua. Per la rimozione, occorre svitare gradualmente le viti nello stesso modo in cui sono state avvitate, cioè con sequenza continua e graduale. Si consiglia di far compiere 1/3 di giro ad ogni vite nella prima sequenza di allentamento, in modo da evitare eventuali intraversamenti.

Procedere poi allo sbloccaggio totale, ma sempre gradualmente e senza arrivare all'estrazione totale delle viti dai gruppi in tolleranza h6. Seguire, inoltre, le indicazioni riportate a lato di ogni disegno.

Fattore di Servizio fs

È un coefficiente di moltiplicazione che viene inserito nella formula per la scelta del riduttore. Serve per tener conto delle condizioni di carico dell'applicazione, ed è definito dalla Tabella 2

Carichi sull'albero di uscita ed entrata

Fr ; Fa [N]

Fr = carico radiale

Fa = carico assiale

I valori dei carichi applicabili sugli alberi di uscita si ricavano dai diagrammi riportati in corrispondenza di ogni grandezza di riduttore, mentre quelli relativi agli alberi di entrata si trovano a pag. 51 I carichi radiali ed assiali massimi non possono agire contemporaneamente.

L'entità dei carichi ammessi Fr , Fa è riferita ad una durata dei cuscinetti secondo ISO 281, corrispondente a:

n x h = 105 per alberi di uscita

n x h = 5x106 per alberi in entrata

I riduttori in versione F vengono normalmente utilizzati per trasmettere coppia senza carichi radiali, pertanto non vengono indicate le capacità di Fr ed Fa massime.

Per informazioni ulteriori contattare il Servizio Tecnico-Commerciale

In applications where heavy external load conditions simultaneously acting on the output and input exist, please contact our Technical-Commercial Service Department.

- Planetary units with female output shaft (F)

These planetary units cannot accept external loads in any direction. Therefore always ensure that the shaft is concentric and in-line with the axis of the driven shaft.

- Foot mounted planetary units (CPC)

The fastening conditions with respect to the concentricity and alignment as discussed in the beginning of this section, apply also to these units.

Ensure that the unit is properly aligned with the machine to be operated.

Should you have any doubts about the outcome of this operation, connect a flexible coupling between the planetary unit and the machine. Ensure that the mounted gear unit is not subject to vibrations.

- Reduction gears for shaft mounting (FS)

Before installing these planetary units, you must prepare the torque arm by respecting the minimum lengths as shown on the drawing for each single unit. Furthermore, we recommend to cushion the reaction constraint using rubber elements and/or shock absorbers. For a correct application in case of particular mounting conditions due to the use of very heavy motors or to heavy radial load on the input, please contact our Technical -Commercial Service Department. These particular load conditions, together with the rotation reaction torque, could considerably reduce the lifetime of the bearings, and compromise the tightening of the shrink disc or affecting the shaft resistance.

Before tightening the shrink disc, properly degrease the internal surface of the planetary unit shaft and its coupling male shaft.

Then proceed to tighten the screws in a gradual and uniform manner without discontinuance. To remove the unit, gradually, unscrew the screws in the same order that you fasten them; i.e., without discontinuance. We advise to give each screw one third turn during the first loosening sequence in order to avoid possible misalignments.

Then proceed to completely unfasten the unit, always in a gradual manner without completely removing the screw from the threads. We suggest to use tolerance h6 for the male shafts to be connected to the units. Furthermore, we suggest to follow the instructions shown besides each drawings.

Service Factor fs

Service factor fs is a multiplication coefficient introduced into the formula for the selection of the planetary gear. In that formula it takes into account the application load conditions. It is defined in Table 2.

Output and input shaft loads

Fr ; Fa [N]

Fr = radial load

Fa = axial load

The load values that output shafts can bear are indicated on the load curves shown on each gear box size; the load values relevant to input shafts are shown at page 51. Radial and axial loads are the maximum values permitted but must not occur simultaneously.

The values of permitted loads Fr, Fa are referred to a bearing duration according to ISO 281 standard and corresponding to:

n x h = 105 for output shafts

n x h = 5x106 for input shafts

F gear units are usually applied in the transmission of a torque without radial loads. In this case, maximum values Fr and Fa are not shown.

For further information, please contact the Technical-Commercial Service Department.

Tabella 1 / Table 1

Pt 1 = Pt x fk

Tempo % di funzionamento Work time % Temps % de fonctionnement Betriebszeit in %	Fattore di adeguamento della capacità termica fk / Thermal power adjustment factor fk Facteur d'adaptation de la capacité thermique fk / Anpassungsfaktor Wärmekapazität fk				
	Temperatura ambiente °C / Room temperature °C / T° Ambiente °C / Raumtemperatur In C°				
	10°	20°	30°	40°	50°
100	1.1	1.0	0.8	0.7	0.6
80	1.2	1.1	1.0	0.8	0.7
60	1.4	1.2	1.1	1.0	0.8
40	1.6	1.4	1.2	1.1	1.0
20	1.8	1.6	1.4	1.2	1.1

Diagramma 1 / Diagram 1

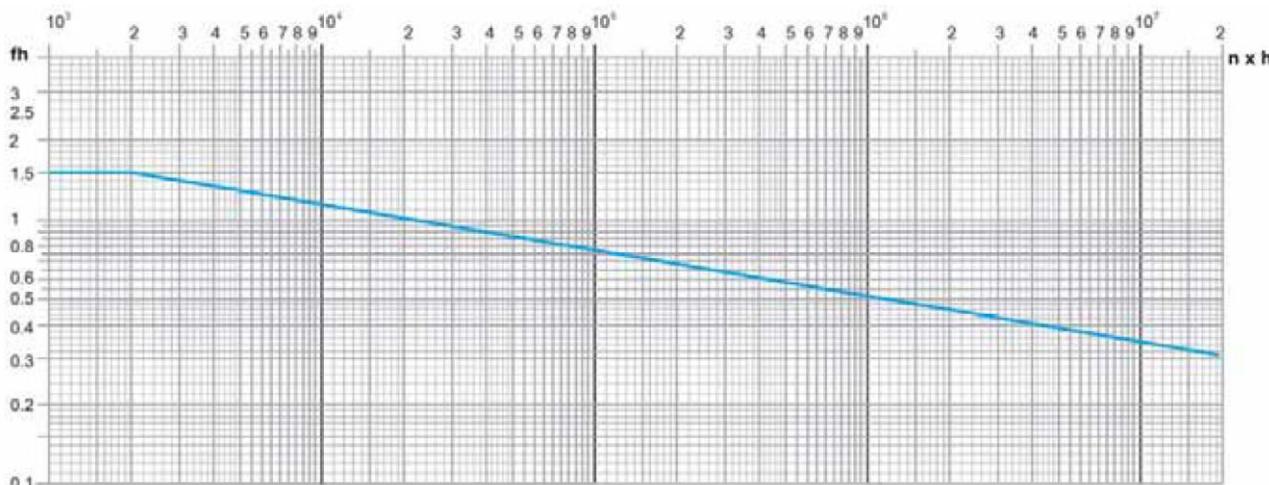


Tabella 2 / Table 2

Ore-giorno / Hours-day Heures-jour / Stunden pro Tag	Condizioni di carico / Load classifications / Conditions de charge / Belastungskennwert											
	U Uniforme / Uniform Uniforme / Gleichmässig				M Moderato / Moderate Moyenne / Mittelschwer				H Pesante / Heavy Lourde / Schwer			
	Avvimenti-ora Start-time Demarrages par heure Starts pro Stunde	< 1.0	1 - 4	4 - 8	8 - 24	< 1.0	1 - 4	4 - 8	8 - 24	< 1.0	1 - 4	4 - 8
< 5	0.8	0.9	1.0	1.5	0.9	1.0	1.3	1.9	1.0	1.5	1.9	2.4
5 - 50	1.0	1.0	1.4	1.7	1.0	1.3	1.6	1.9	1.4	1.8	2.1	2.5
> 50	1.3	1.5	1.7	1.9	1.4	1.7	1.9	2.2	1.7	2.1	2.5	2.9

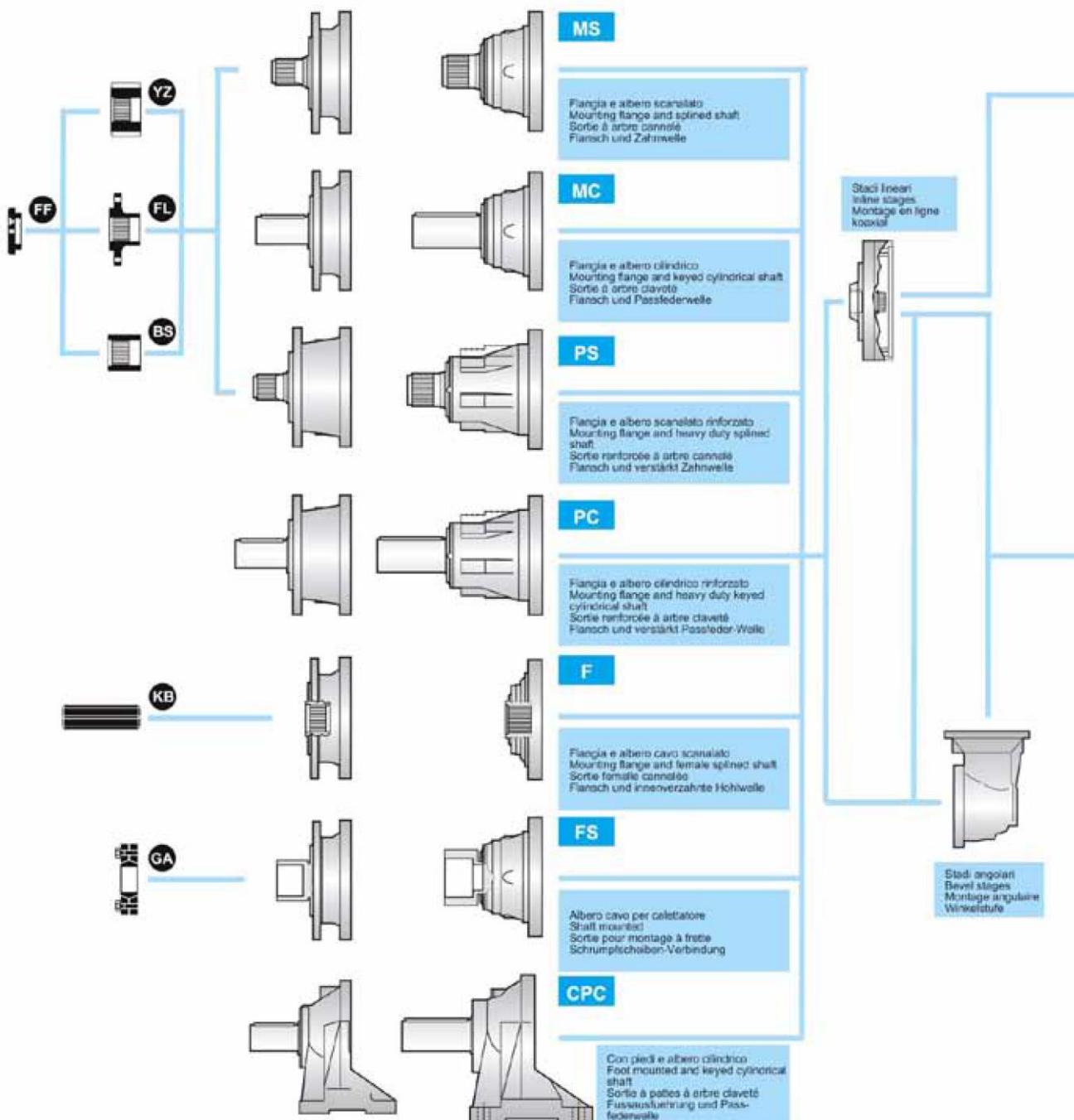
The data specified into this catalogue are for product description purpose only and must not be interpreted as warranted characteristic in legal sense. Intermot reserves the right to implement modification without notice.

Output Fittings

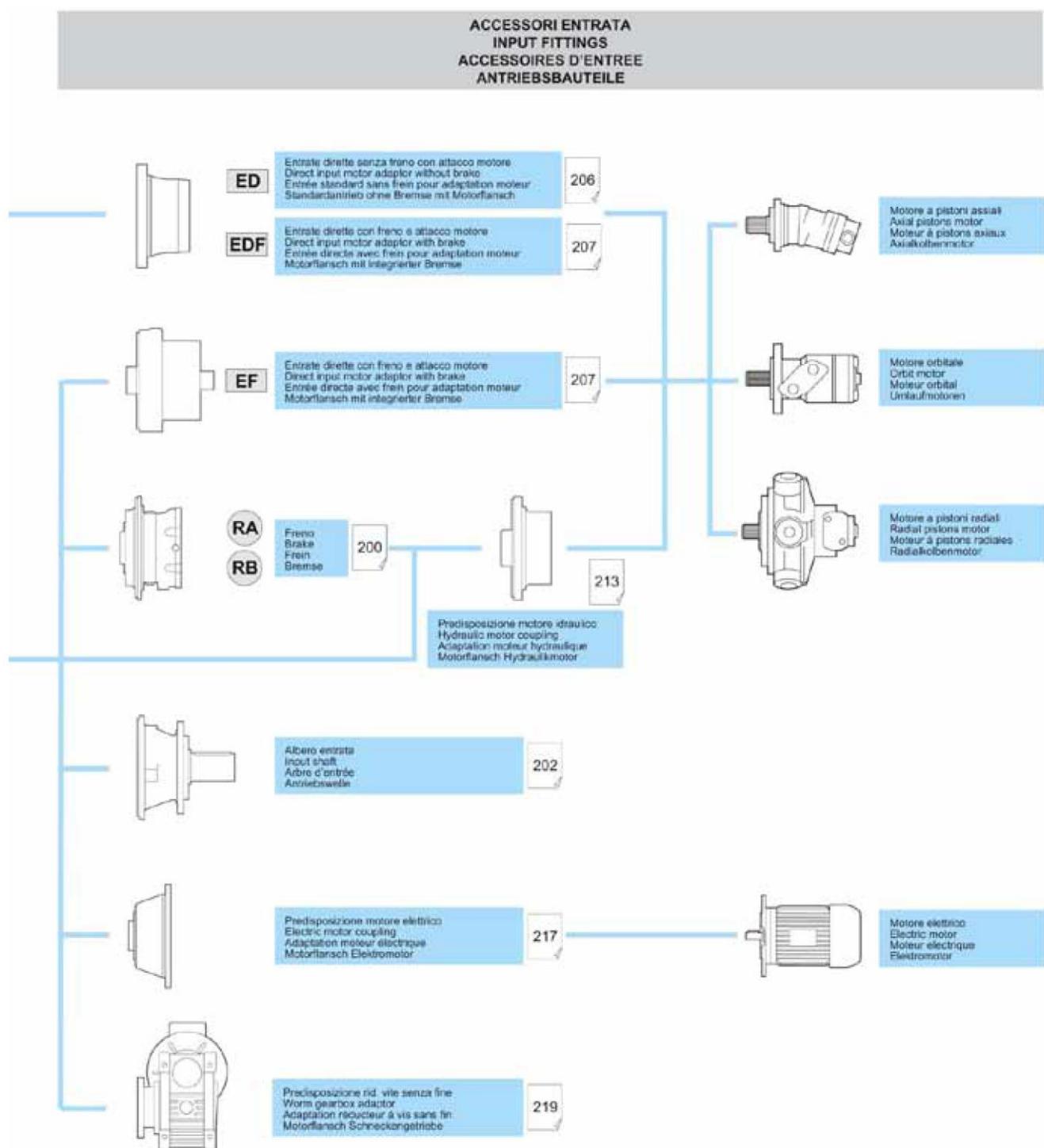
ACCESSORI USCITA
OUTPUT FITTINGS
ACCESOIRES DE SORTIE
ABTRIEBSBAUTEILE

VERSIONI USCITA
OUTPUT TYPES
TYPES DE SORTIE
ABTRIEBSSWELLEN

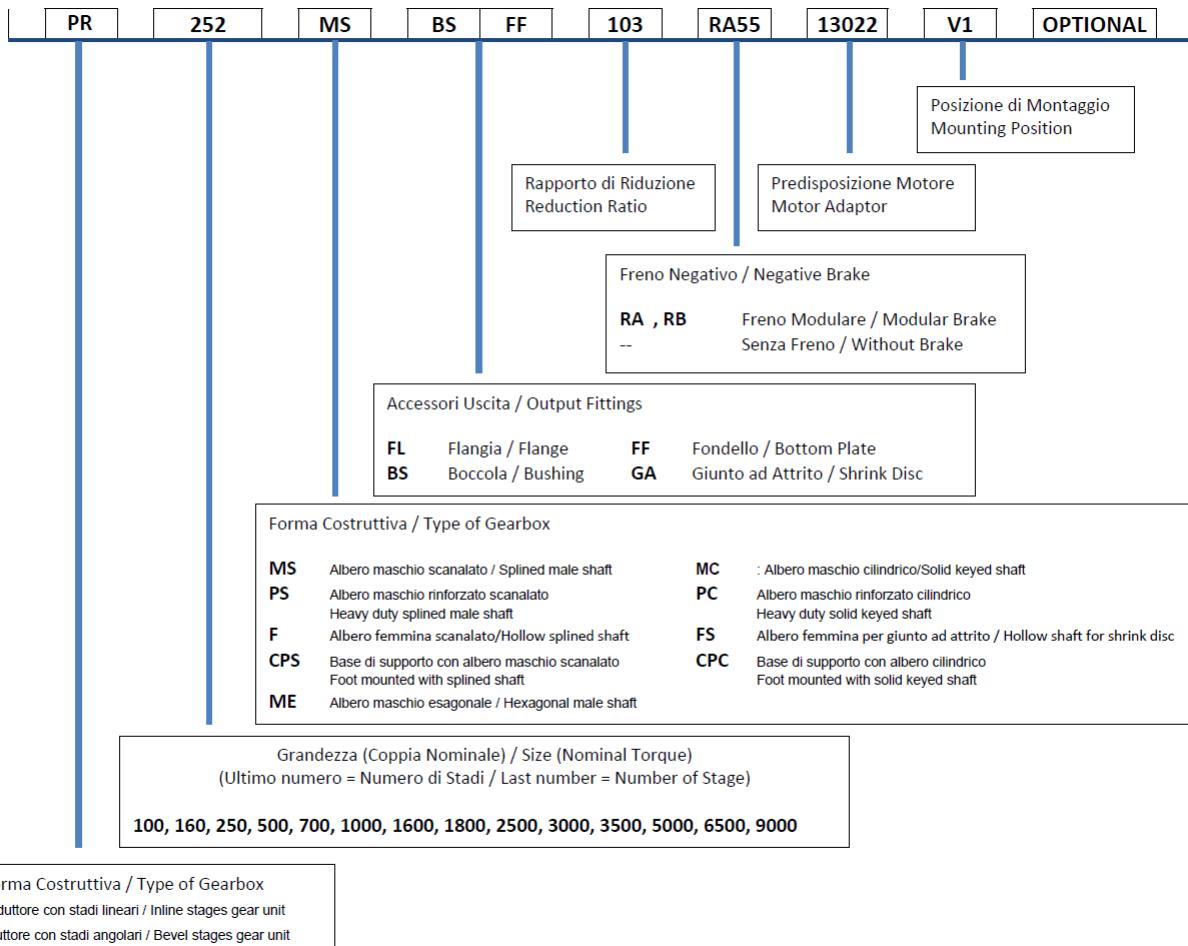
FORMA COSTRUTTIVA
TYPE OF REDUCTION UNIT
TYPE DU REDUCTEUR
PLANETENSTUFEN



The data specified into this catalogue are for product description purpose only and must not be interpreted as warranted characteristic in legal sense. Intermot reserves the right to implement modification without notice.



Ordering Instructions



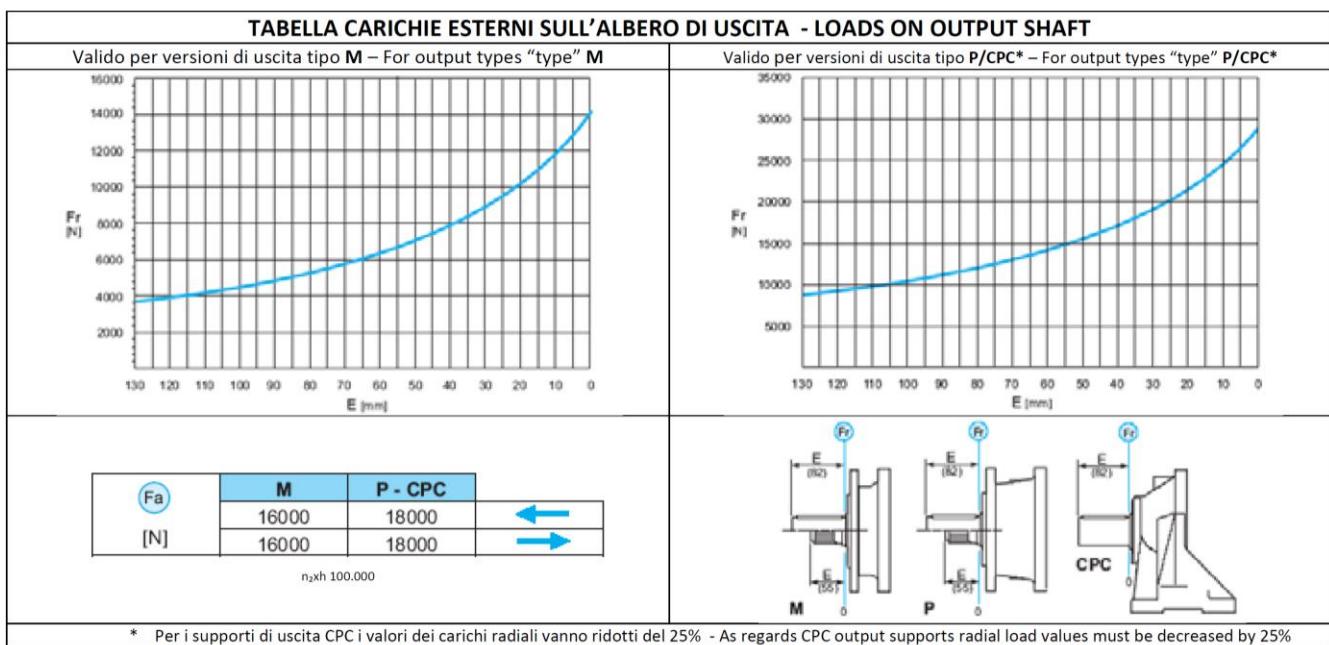
The data specified into this catalogue are for product description purpose only and must not be interpreted as warranted characteristic in legal sense. Intermot reserves the right to implement modification without notice.

PR 100

Technical data

PR 101			PR 102			PR 103			PR 104			PRA 102			PRA 103			PRA 104		
n ₁ max 2800 RPM																				
Pt(kW) 12			Pt(kW) 8			Pt(kW) 5			Pt(kW) 1,5			Pt(kW) 8			Pt(kW) 5			Pt(kW) 1,5		
i	Mc daNm	Mmax daNm																		
3,55	110	220	12,6	110	220	54,1	110	220	337,3	110	220	10,4	110	220	37,0	110	220	131,8	110	220
4,28	110	220	15,2	110	220	65,3	110	220	365,7	110	220	12,5	110	220	44,6	110	220	158,9	110	220
5,60	80	160	19,9	110	220	70,7	110	220	396,4	110	220	16,4	80	160	53,8	110	220	191,5	110	220
6,75	70	140	23,9	110	220	78,7	110	220	440,8	110	220	19,7	70	140	58,4	110	220	207,6	110	220
8,67	45	90	28,9	110	220	85,3	110	220	477,8	110	220				70,3	110	220	230,8	110	220
			31,3	80	160	102,8	110	220	531,3	110	220				84,8	110	220	260,1	110	220
			37,8	80	160	111,5	110	220	575,9	110	220				91,9	80	160	301,7	110	220
			45,5	70	140	134,3	110	220	624,4	110	220				110,8	80	160	327,0	110	220
			58,5	70	140	161,9	110	220	694,2	110	220				133,6	70	140	363,6	110	220
						172,5	110	220	752,6	110	220				171,5	70	140	394,2	110	220
						207,9	110	220	836,8	110	220							475,1	110	220
						211,6	80	160	907,1	110	220							515,3	80	160
						255,1	80	160	966,3	110	220							572,7	110	220
						271,7	80	160	1093,4	110	220							610,1	110	220
						307,5	70	140	1144,5	110	220							735,4	110	220
						327,5	80	160	1185,4	80	160							797,2	80	160
						394,8	70	140	1318,0	110	220							960,9	80	160
									1428,8	80	160							1158,2	70	140
									1692,3	110	220							1233,7	80	160
									3422,1	70	140							1487,1	70	140

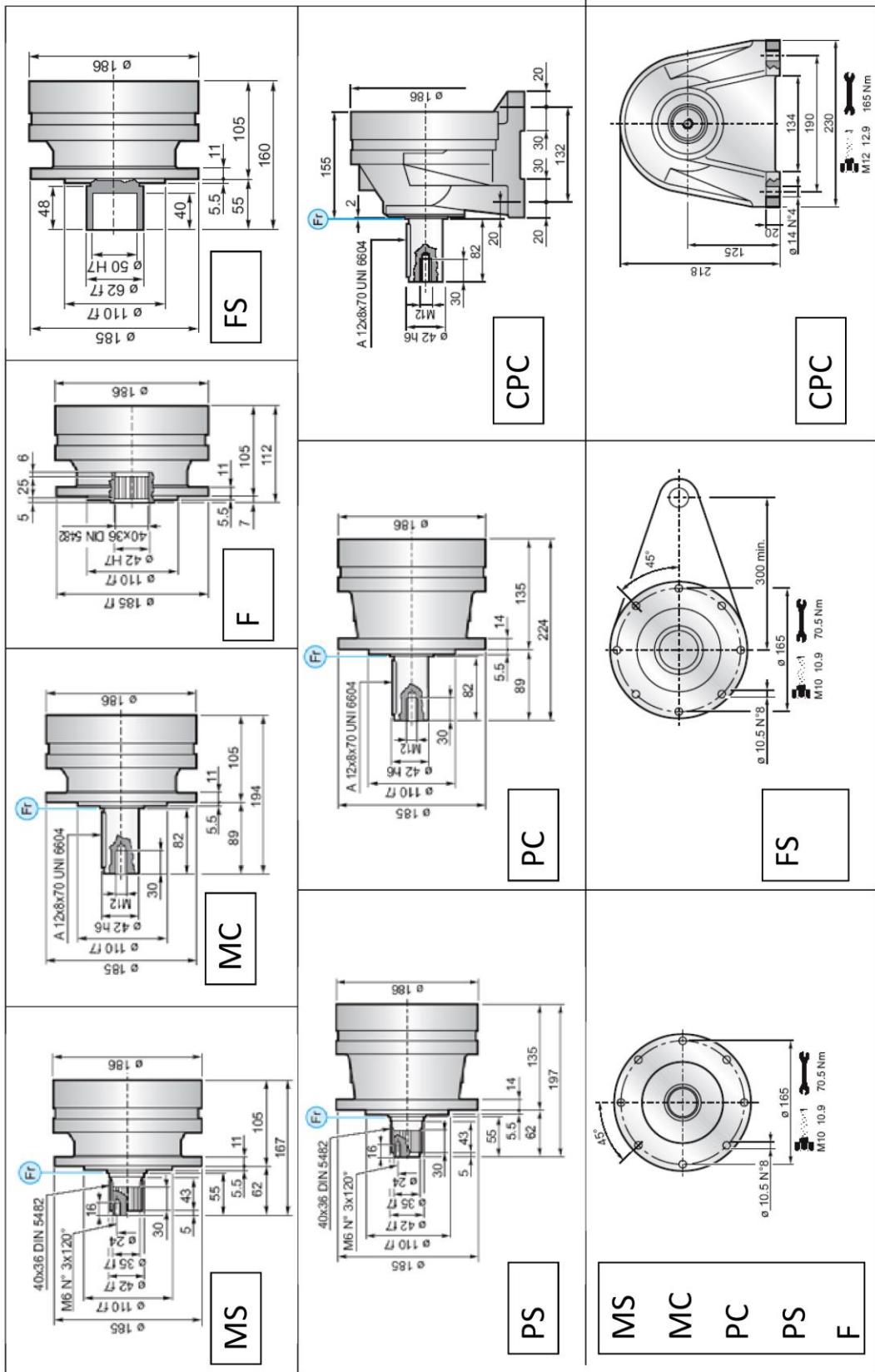
MODELLO - MODEL			PR 101			PR 102			PR 103			PR104			PRA 102			PRA 103			PRA 104		
TIPO USCITA - OUTPUT TYPE			M	F	P	M	F	P	M	F	P	M	F	P	M	F	P	M	F	P	M	F	P
PESO - WEIGHT	Kg.	13	11	15	19	17	21	25	23	27	31	29	33	28	26	30	34	32	36	40	38	42	
Olio - Oil Lt.	Orizzontale - Horizontal	0,5	0,4	0,5	0,7	0,6	0,7	0,9	0,8	0,9	1,1	1,0	1,1	2,0	1,9	2,3	2,2	2,1	2,5	2,4	2,3	2,7	
	Verticale - Vertical	1,0	0,8	1,0	1,4	1,2	1,4	1,8	1,6	1,8	2,2	2,0	2,2	4,0	3,8	4,6	4,4	4,2	5,0	4,8	4,6	5,4	



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PR 100

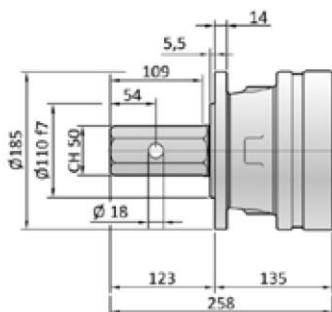
Dimensional drawings



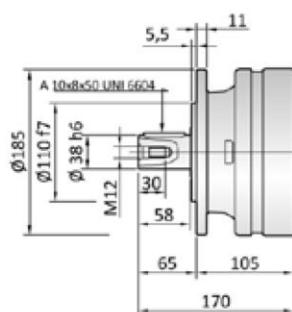
The data specified into this catalogue are for product description purpose only and must not be interpreted as warranted characteristic in legal sense. Intermot reserves the right to implement modification without notice. 10

PR 100

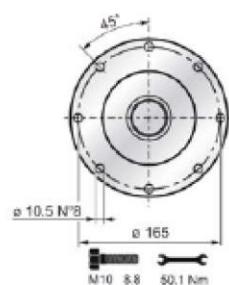
Special versions



PE

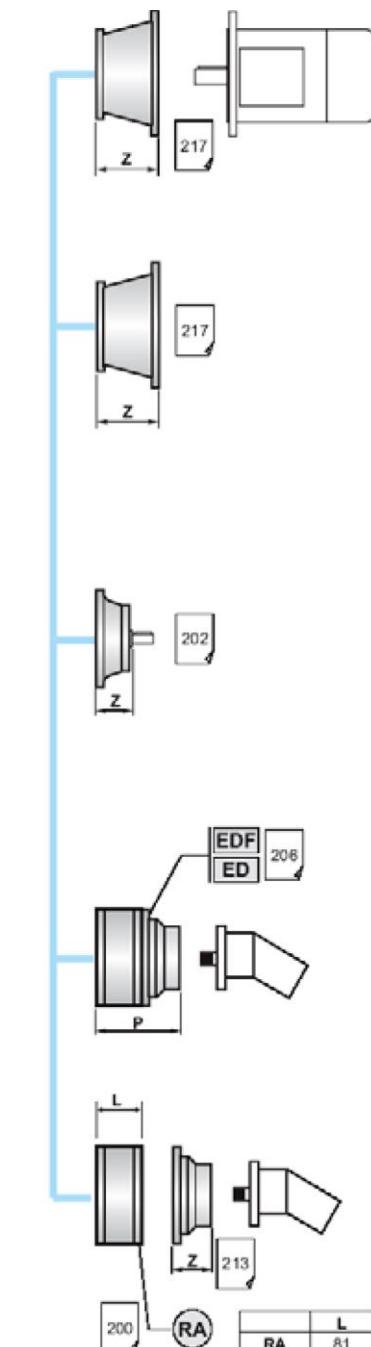


MC T



	VERSIONE USCITA – OUTPUT TYPE				ENTRATA TIPO INPUT TYPE
	MCT	F – FS	PC – PS PE	CPC	
PR 101	A 105	A 105	A 135	A 135	A
PR 102	A 153	A 153	A 183	A 183	A
PR 103	A 201	A 201	A 231	A 231	A
PR 104	A 249	A 249	A 271	A 279	A

	VERSIONE USCITA – OUTPUT TYPE				ENTRATA TIPO INPUT TYPE
	MC – MS MCT	F – FS	PC – PS PE	CPC	
PRA 102	A 180 , B 159	A 180 , B 159	A 210 , B 159	A 217 , B 159	A
PRA 103	A 228 , B 159	A 228 , B 159	A 258 , B 159	A 265 , B 159	A
PRA 104	A 276 , B 159	A 276 , B 159	A 306 , B 159	A 313 , B 159	A

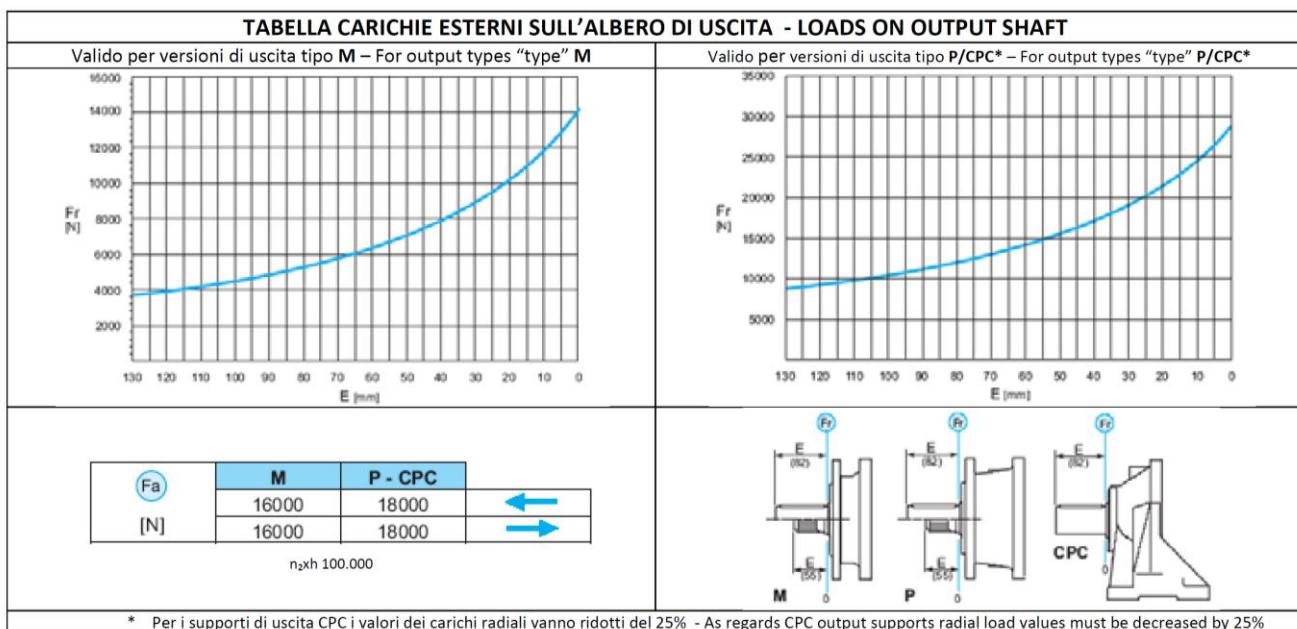


PR 160

Technical data

PR 161			PR 162			PR 163			PR 164			PRA 162			PRA 163			PRA 164		
n ₁ max 2800 RPM																				
Pt(kW) 12			Pt(kW) 8			Pt(kW) 5			Pt(kW) 1,5			Pt(kW) 8			Pt(kW) 5			Pt(kW) 1,5		
i	Mc daNm	Mmax daNm																		
3,55	170	340	12,6	170	340	54,1	170	340	365,7	170	340	10,4	170	340	37,0	170	340	131,8	170	340
4,28	170	340	15,2	170	340	65,3	170	340	396,4	170	340	12,5	170	340	44,6	170	340	158,9	170	340
5,60	121	242	19,9	170	340	70,7	170	340	440,8	170	340	16,4	121	242	53,8	170	340	191,5	170	340
6,75	100	200	23,9	170	340	78,7	170	340	477,8	170	340	19,7	100	200	58,4	170	340	207,6	170	340
			28,9	170	340	85,3	170	340	531,3	170	340				70,3	170	340	230,8	170	340
			31,3	121	242	102,8	170	340	575,9	170	340				84,8	170	340	301,7	170	340
			37,8	121	242	111,5	170	340	624,4	170	340				91,9	121	242	327,0	170	340
			45,5	100	200	134,3	170	340	694,2	170	340				110,8	121	242	363,6	170	340
			58,5	100	200	161,9	170	340	752,6	170	340				133,6	100	200	394,2	170	340
						172,5	170	340	836,8	170	340				171,5	100	200	475,1	170	340
						207,9	170	340	907,1	170	340							515,3	121	242
						211,6	121	242	966,3	170	340							572,7	170	340
						255,1	121	242	1093,4	170	340							610,1	170	340
						271,7	121	242	1144,5	170	340							735,4	170	340
						307,5	100	200	1185,4	121	242							797,2	121	242
						327,5	121	242	1318,0	170	340							960,9	121	242
						394,8	100	200	1428,8	121	242							1158,2	100	200
									1692,3	170	340							1233,7	121	242
									3422,1	100	200							1487,1	100	200

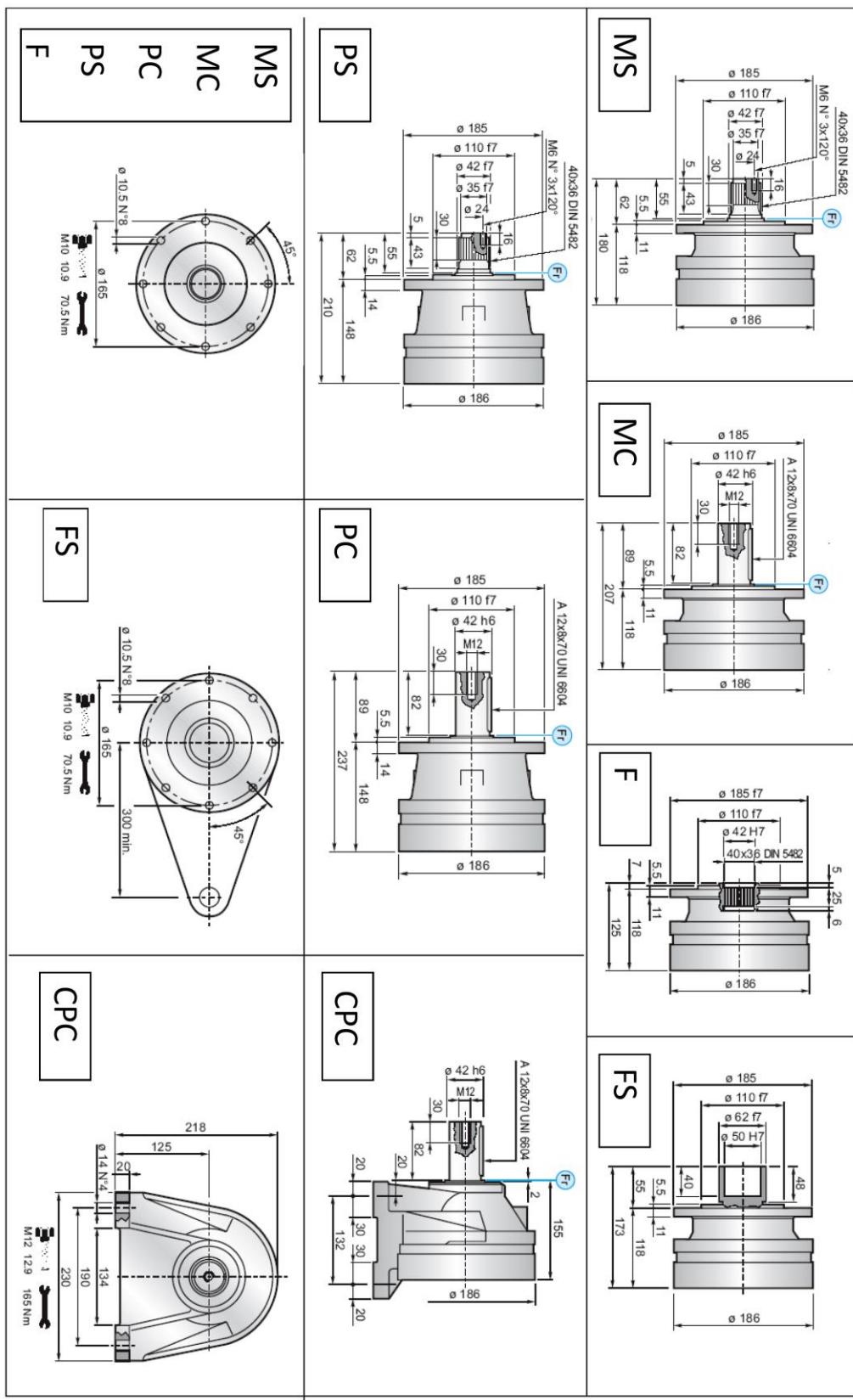
MODELLO - MODEL			PR 161			PR 162			PR 163			PR 164			PRA 162			PRA 163			PRA 164		
TIPO USCITA - OUTPUT TYPE			M	F	P	M	F	P	M	F	P	M	F	P	M	F	P	M	F	P	M	F	P
PESO - WEIGHT	Kg.		15	13	17	21	19	23	27	25	29	33	31	35	30	28	32	36	34	38	42	40	44
Olio - Oil Lt.	Orizzontale - Horizontal		0,6	0,5	0,6	0,8	0,7	0,8	1,0	0,9	1,0	1,2	1,1	1,2	2,1	2,0	2,4	2,3	2,2	2,6	2,5	2,4	2,8
	Verticale - Vertical		1,2	1,0	1,2	1,6	1,4	1,6	2,0	1,8	2,0	2,4	2,2	2,4	4,2	4,0	4,8	4,6	4,4	5,2	5,0	4,8	5,6



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PR 160

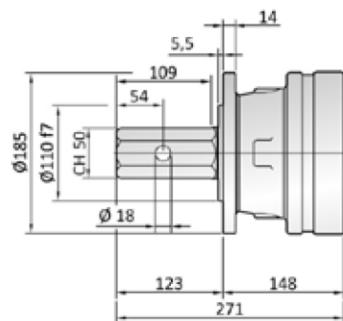
Dimensional drawings



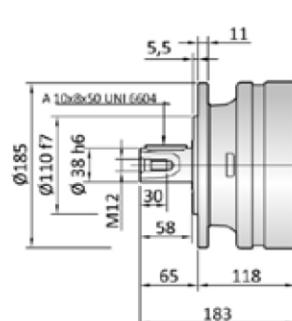
The data specified into this catalogue are for product description purpose only and must not be interpreted as warranted characteristic in legal sense. Intermot reserves the right to implement modification without notice.

PR 160

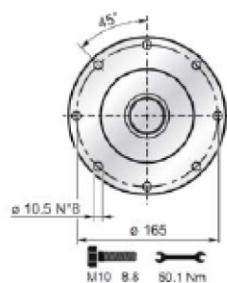
Special versions



PE

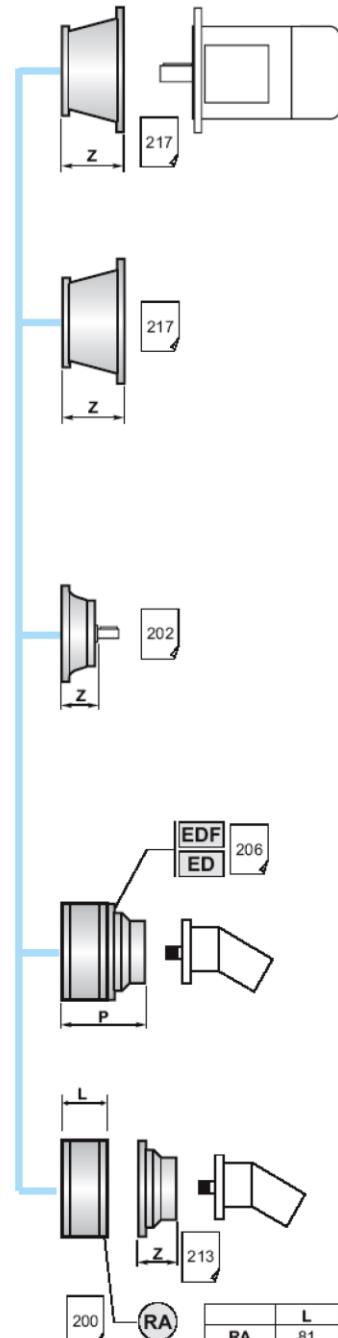


MCT



	VERSIONE USCITA – OUTPUT TYPE				ENTRATA TIPO INPUT TYPE
	MC – MS MCT	F – FS	PC – PS PE	CPC	
PR 161	A 118	A 118	A 148	A 148	A
PR 162	A 166	A 166	A 196	A 196	A
PR 163	A 214	A 214	A 244	A 244	A
PR 164	A 262	A 262	A 292	A 292	A

	VERSIONE USCITA – OUTPUT TYPE				ENTRATA TIPO INPUT TYPE
	MC – MS MCT	F – FS	PC – PS PE	CPC	
PRA 162	A 193, B 159	A 193, B 159	A 223, B 159	A 230, B 159	A
PRA 163	A 241, B 159	A 241, B 159	A 271, B 159	A 278, B 159	A
PRA 164	A 289, B 159	A 289, B 159	A 319, B 159	A 326, B 159	A



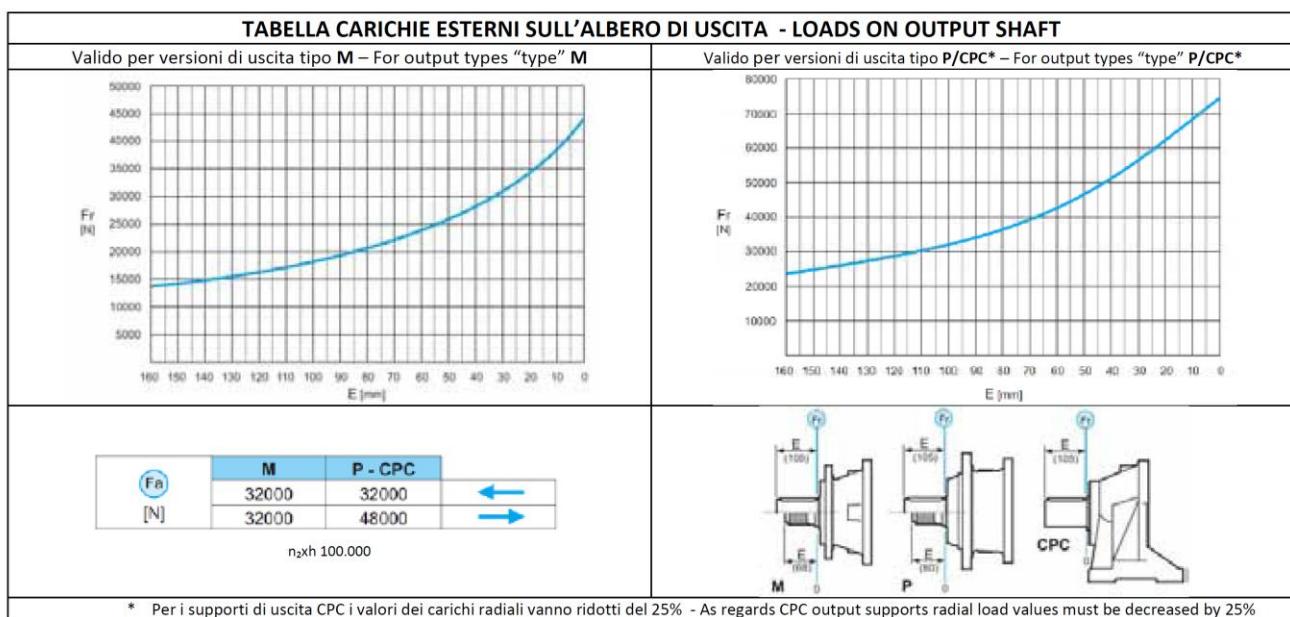
The data specified into this catalogue are for product description purpose only and must not be interpreted as warranted characteristic in legal sense. Intermot reserves the right to implement modification without notice. 14

PR 250

Technical data

PR 251			PR 252			PR 253			PR 254			PRA 252			PRA 253			PRA 254		
n ₁ max 2800 RPM																				
Pt(kW) 20			Pt(kW) 12			Pt(kW) 8			Pt(kW) 4			Pt(kW) 12			Pt(kW) 8			Pt(kW) 4		
i	Mc daNm	Mmax daNm																		
3.77	352	704	13.4	352	704	52.1	319	638	351.9	319	638	12.0	319	638	39.3	352	704	140.0	352	704
4.12	319	638	16.1	352	704	57.5	352	704	365.7	266	532	15.1	266	532	47.4	352	704	168.8	352	704
5.16	266	532	18.3	266	532	62.8	319	638	388.5	352	704	17.5	223	446	53.8	266	532	184.3	319	638
6.00	223	446	23.1	319	638	75.2	352	704	413.8	352	704	21.2	173	346	67.7	319	638	220.6	352	704
7.25	173	346	28.9	266	532	82.1	319	638	424.2	319	638				75.4	223	446	240.9	319	638
			34.8	266	532	90.6	352	704	468.3	352	704				84.8	266	532	265.9	352	704
			40.5	223	446	98.9	319	638	511.4	319	638				91.1	173	346	290.3	319	638
			48.9	173	346	119.3	319	638	554.3	319	638				102.2	266	532	320.5	352	704
			62.8	173	346	129.3	319	638	611.9	352	704				118.7	223	446	350.0	319	638
						149.4	266	532	668.2	319	638				143.5	173	346	422.3	223	446
						155.9	319	638	737.6	352	704							449.4	319	638
						162.0	266	532	805.4	319	638							475.2	266	532
						173.5	223	446	857.9	319	638							509.1	223	446
						195.2	266	532	907.3	266	532							551.9	223	446
						235.4	266	532	1052.4	319	638							615.2	173	346
						273.3	223	446	1121.1	319	638							665.2	223	446
						302.2	266	532	1318.2	266	532							735.5	266	532
						330.3	173	346	1588.9	266	532							801.8	223	446
						424.1	173	346	1845.2	223	446							1244.0	173	346
									2369.2	223	446									

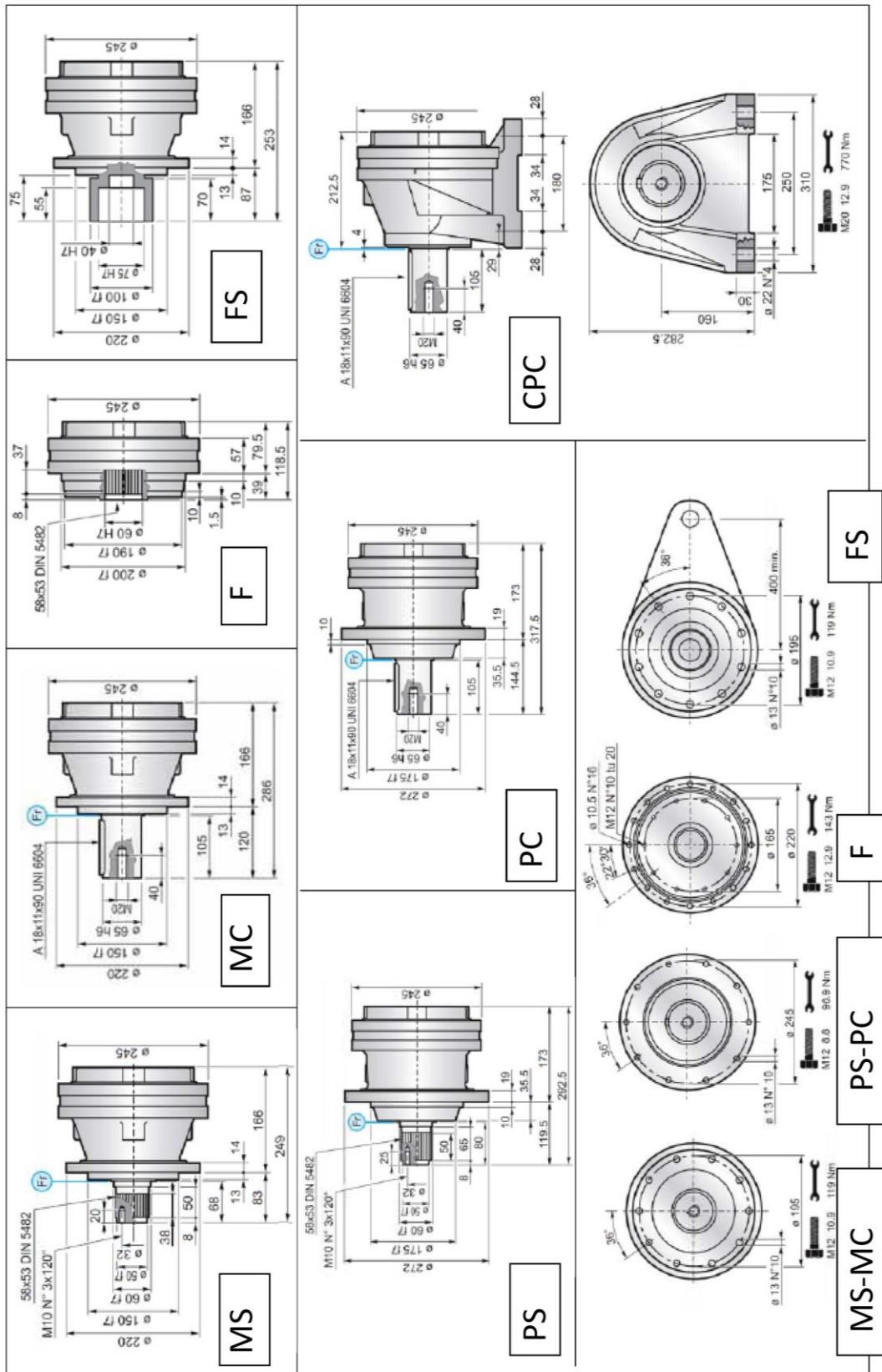
MODELLO - MODEL			PR 251			PR 252			PR 253			PR 254			PRA 252			PRA 253			PRA 254		
TIPO USCITA - OUTPUT TYPE			M	F	P	M	F	P	M	F	P	M	F	P	M	F	P	M	F	P	M	F	P
PESO - WEIGHT	Kg.		29	20	38	35	27	44	41	32	50	47	38	56	47	38	56	53	45	62	59	50	68
Olio - Oil Lt.	Orizzontale - Horizontal		1.0	0.8	1.2	1.3	1.1	1.5	1.5	1.3	1.7	1.7	1.5	1.9	2.6	2.4	3.8	2.6	3.0	3.0	2.8	3.2	
	Verticale - Vertical		2.0	1.6	2.4	2.6	2.2	3.0	3.0	2.6	3.4	3.4	3.0	3.8	5.2	4.8	7.6	5.6	5.2	6.0	6.0	5.6	6.4



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PR 250

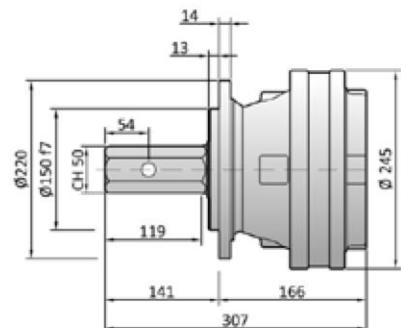
Dimensional drawings



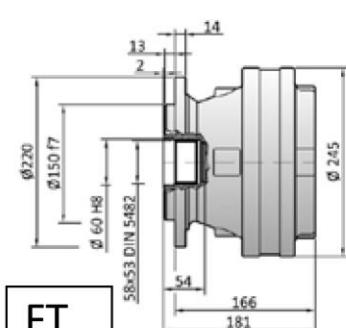
The data specified into this catalogue are for product description purpose only and must not be interpreted as warranted characteristic in legal sense. Intermot reserves the right to implement modification without notice. **16**

PR 250

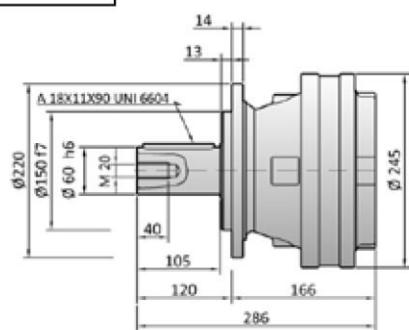
Special versions



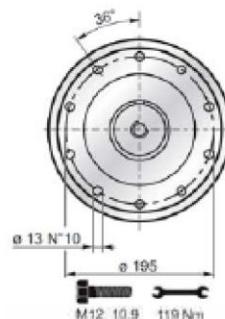
ME



FT

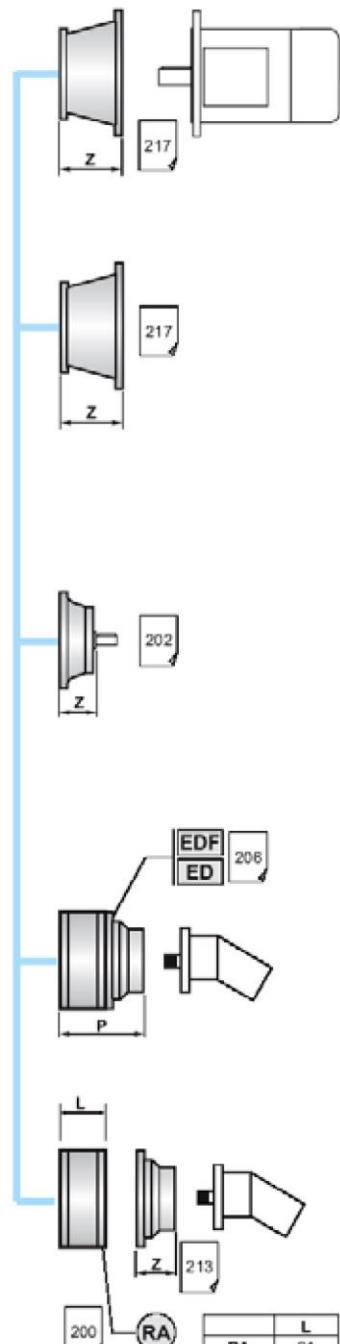


MCT



	VERSIONE USCITA – OUTPUT TYPE					ENTRATA TIPO INPUT TYPE
	MC – MS MCT - ME	F	PC – PS	CPC	FS – FT	
PR 251	A 166	A 79.5	A 173	A 212.5	A 166	A
PR 252	A 214	A 127.5	A 221	A 260.5	A 214	A
PR 253	A 262	A 175.5	A 269	A 308.5	A 262	A
PR 254	A 310	A 223.5	A 317	A 356.5	A 310	A

	VERSIONE USCITA – OUTPUT TYPE					ENTRATA TIPO INPUT TYPE
	MC – MS MCT - ME	F	PC – PS	CPC	FS – FT	
PRA 252	A 241 , B 159	A 192 , B 159	A 248 , B 159	A 287 , B 159	A 241 , B 159	A
PRA 253	A 289 , B 159	A 240 , B 159	A 296 , B 159	A 335 , B 159	A 289 , B 159	A
PRA 254	A 337 , B 159	A 288 , B 159	A 344 , B 159	A 383 , B 159	A 337 , B 159	A



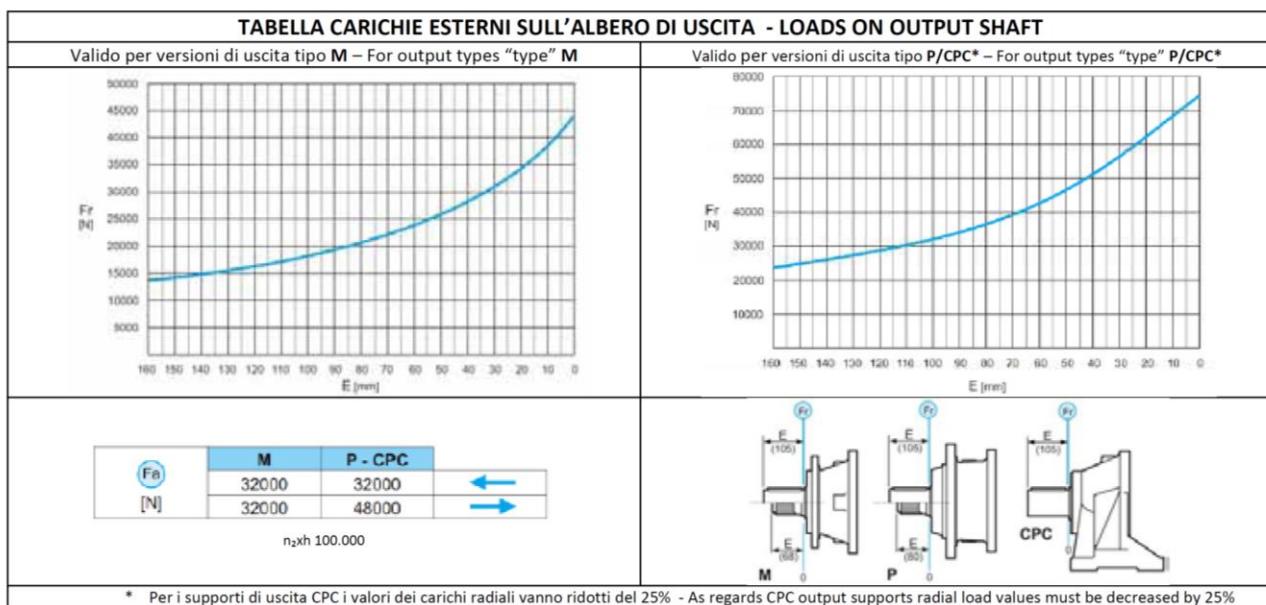
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PR 500

Technical data

PR 501			PR 502			PR 503			PR 504			PRA 502			PRA 503			PRA 504		
n ₁ max 2800 RPM			n ₁ max 2800 RPM			n ₁ max 2800 RPM														
Pt(kW) 20			Pt(kW) 15			Pt(kW) 10			Pt(kW) 6			Pt(kW) 15			Pt(kW) 10			Pt(kW) 6		
i	Mc daNm	Mmax daNm	i	Mc daNm	M max daNm	i	Mc daNm	Mmax daNm	i	Mc daNm	Mmax daNm									
3.77	511	1022	13.4	511	1022	52.1	466	932	351.9	466	932	13.0	511	1022	39.3	511	1022	140.0	511	1022
4.12	466	932	16.1	511	1022	57.5	511	1022	365.7	381	762	14.2	466	932	47.4	511	1022	168.8	511	1022
5.16	381	762	18.3	381	762	62.8	466	932	388.5	511	1022	17.8	381	762	53.8	381	762	184.3	466	932
6.00	334	668	23.1	466	932	75.2	511	1022	413.8	511	1022	20.5	511	1022	67.7	466	932	220.6	511	1022
7.25	261	522	28.9	381	762	82.1	466	932	424.2	466	932	22.4	466	932	75.4	334	668	240.9	466	932
			34.8	381	762	90.6	511	1022	468.3	511	1022	28.1	381	762	84.8	381	762	265.9	511	1022
			40.5	334	668	98.9	466	932	511.4	466	932	32.6	334	668	91.1	261	522	290.3	466	932
			48.9	261	522	119.3	466	932	554.3	466	932	39.7	261	522	102.2	381	762	320.5	511	1022
						129.3	466	932	611.9	511	1022				118.7	334	668	350.0	466	932
						149.4	381	762	668.2	466	932				143.5	261	522	422.3	334	668
						155.9	466	932	737.6	511	1022							449.4	466	932
						162.0	381	762	805.4	466	932							475.2	381	762
						173.5	334	668	857.9	466	932							509.1	334	668
						195.2	381	762	907.3	381	762							551.9	334	668
						235.4	381	762	1052.4	466	932							615.2	261	522
						273.3	334	668	1121.1	466	932							665.2	334	668
						302.2	381	762	1318.2	381	762							735.5	381	762
						330.3	261	522	1588.9	381	762							801.8	334	668
									1845.2	334	668							1244.0	261	522

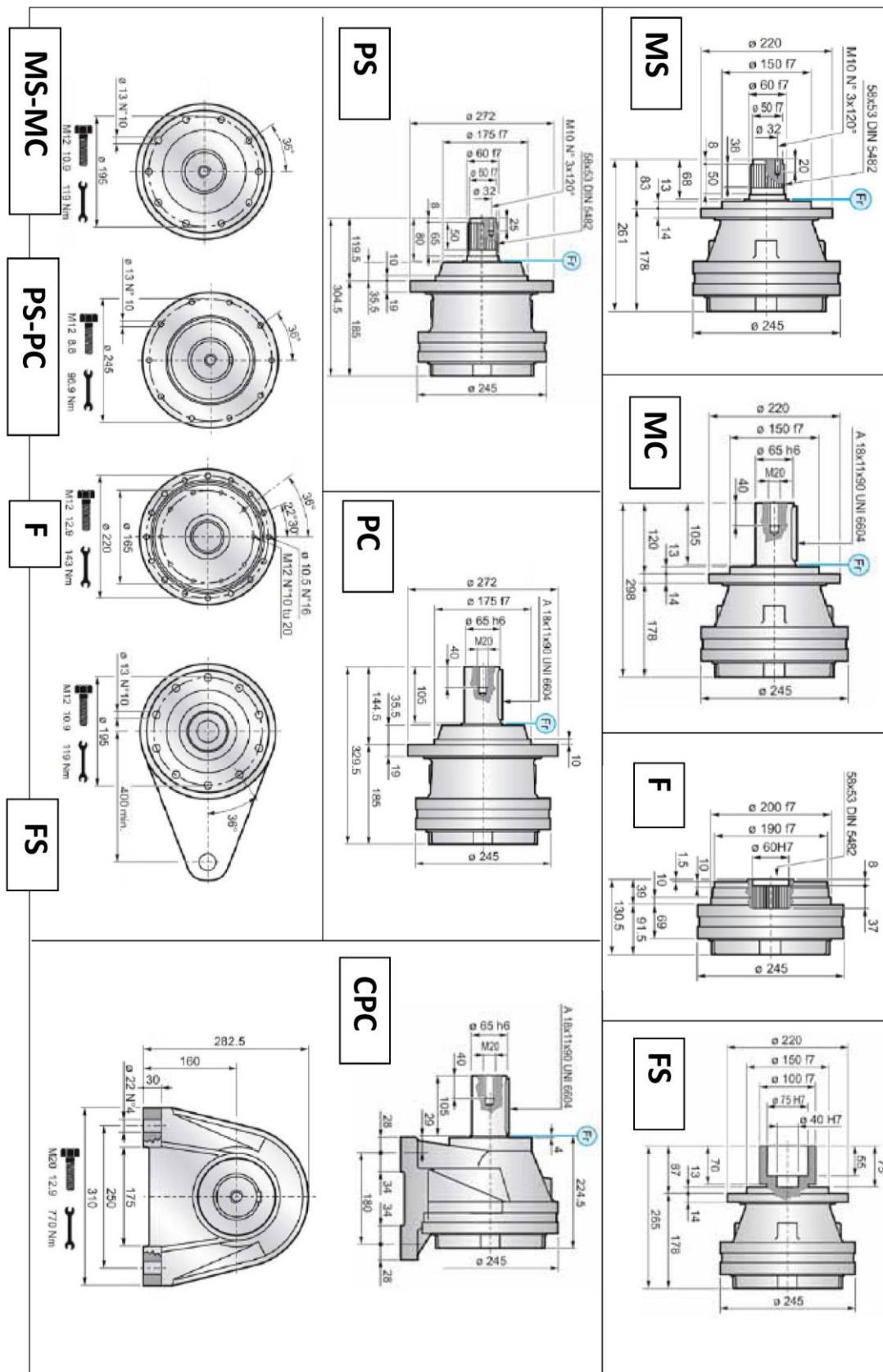
MODELLO - MODEL			PR 501			PR 502			PR 503			PR 504			PRA 502			PRA 503			PRA 504		
TIPO USCITA - OUTPUT TYPE			M	F	P	M	F	P	M	F	P	M	F	P	M	F	P	M	F	P	M	F	P
PESO - WEIGHT	Kg.		33	25	42	41	32	50	47	38	56	53	44	62	51	43	60	59	50	68	65	56	74
Olio - Oil Lt.	Orizzontale - Horizontal		1.1	0.9	1.3	1.5	1.3	1.7	1.8	1.6	2.0	2.0	1.8	2.2	3.1	2.9	3.3	3.1	2.9	3.3	3.3	3.1	3.5
	Verticale - Vertical		2.2	1.8	2.6	3.0	2.6	3.4	3.6	3.2	4.0	4.0	3.6	4.4	4.2	3.8	4.6	6.2	5.8	6.6	6.6	6.2	7.0



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PR 500

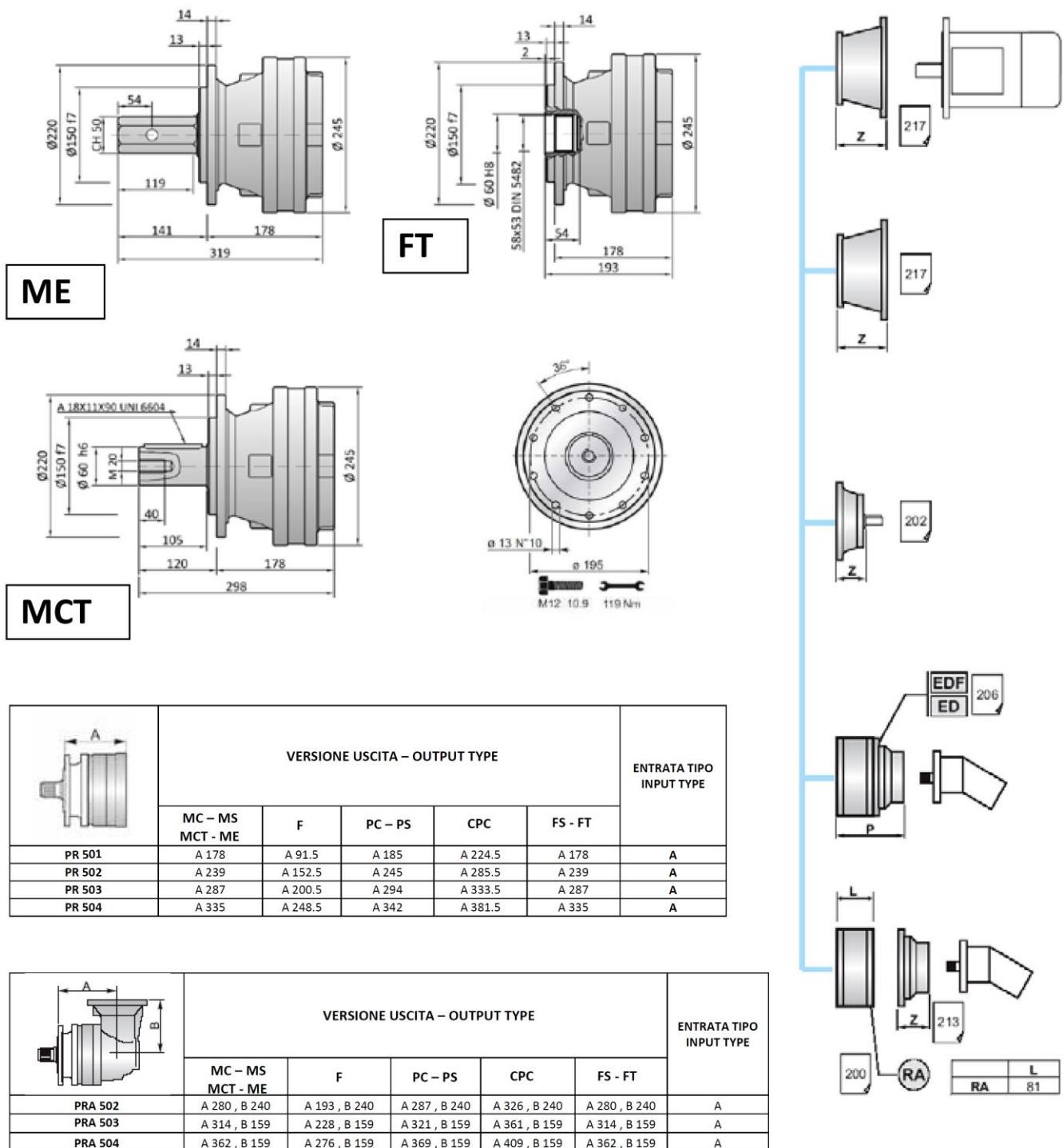
Dimensional drawings



The data specified into this catalogue are for product description purpose only and must not be interpreted as warranted characteristic in legal sense. Intermot reserves the right to implement modification without notice. **19**

PR 500

Special versions



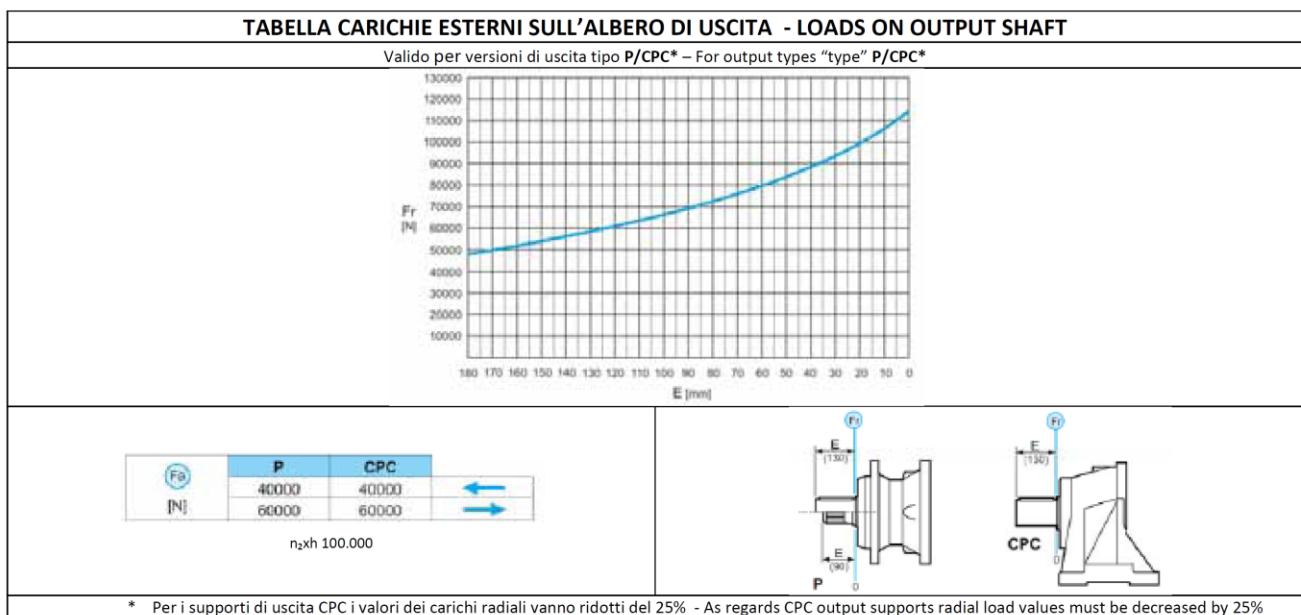
The data specified into this catalogue are for product description purpose only and must not be interpreted as warranted characteristic in legal sense. Intermot reserves the right to implement modification without notice. 20

PR 700

Technical data

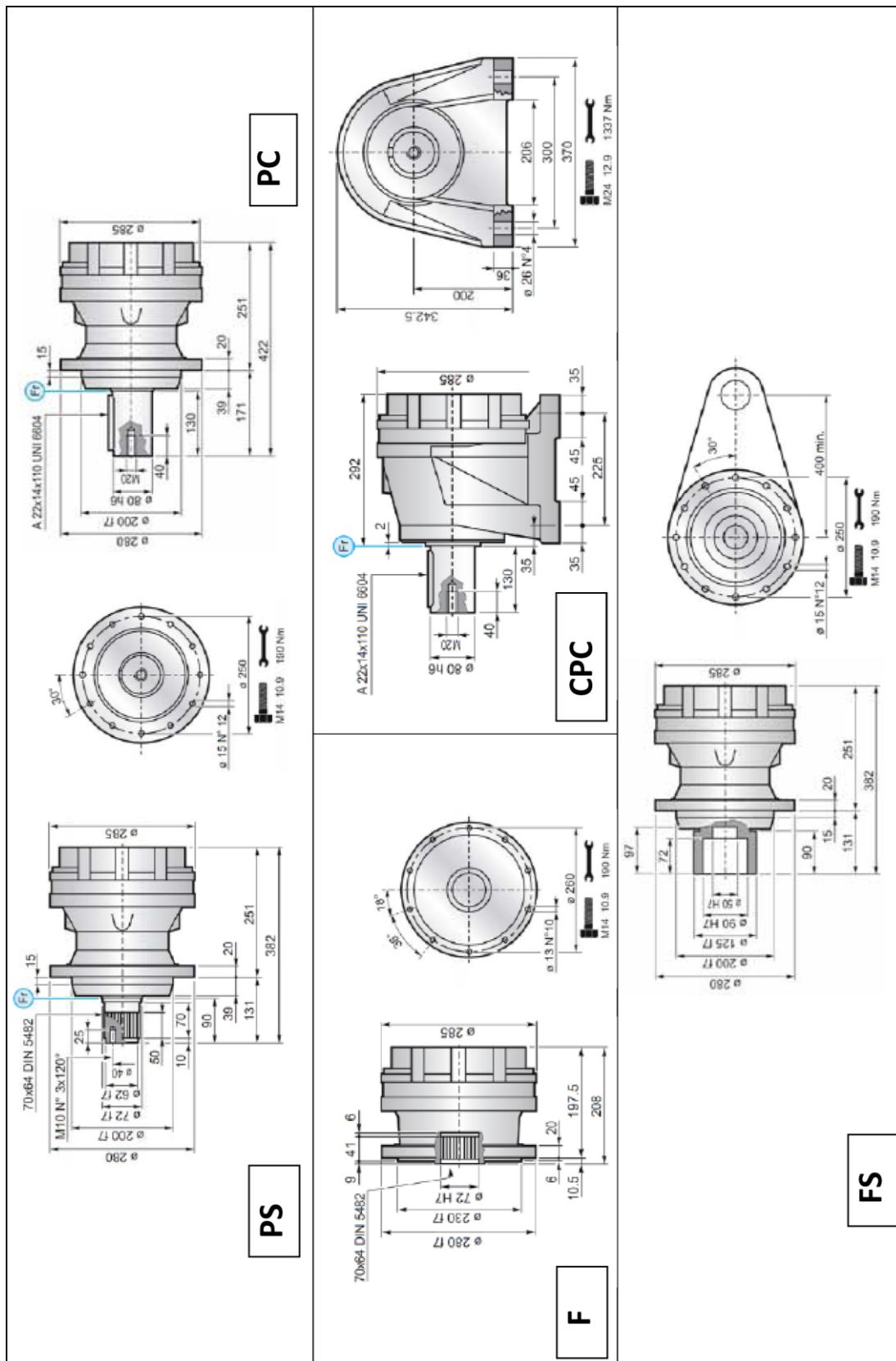
PR 701			PR 702			PR 703			PR 704			PRA 702			PRA 703			PRA 704		
n ₁ max 2800 RPM			n ₁ max 2800 RPM			n ₁ max 2800 RPM			n ₁ max 2800 RPM			n ₁ max 2800 RPM			n ₁ max 2800 RPM			n ₁ max 2800 RPM		
Pt(kW) 30		Pt(kW) 18		Pt(kW) 14		Pt(kW) 8		Pt(kW) 18		Pt(kW) 14		Pt(kW) 8		Pt(kW) 18		Pt(kW) 14		Pt(kW) 8		
i	Mc daNm	Mmax daNm	i	Mc daNm	Mmax daNm	i	Mc daNm	Mmax daNm	i	Mc daNm	Mmax daNm	i	Mc daNm	Mmax daNm	i	Mc daNm	Mmax daNm	i	Mc daNm	Mmax daNm
3.66	702	1404	13.8	702	1404	53.7	702	1404	301.1	702	1404	12.6	702	1404	53.8	641	1282	157.7	702	1404
4.42	641	1282	18.2	641	1282	64.8	702	1404	332.4	702	1404	15.2	641	1282	55.5	641	1282	174.1	702	1404
5.00	563	1126	20.6	563	1126	71.6	641	1282	347.9	702	1404	17.2	563	1126	60.4	563	1126	190.1	702	1404
5.80	476	952	22.8	641	1282	78.2	641	1282	400.6	702	1404	20.0	476	952	67.1	641	1282	210.3	641	1282
7.00	385	770	26.5	641	1282	88.3	563	1126	434.3	702	1404	24.1	641	1282	77.9	641	1282	229.6	641	1282
		30.0	563	1126	93.6	641	1282	474.3	702	1404	27.2	563	1126	87.9	563	1126	248.4	702	1404	
		36.2	563	1126	102.1	702	1404	523.5	702	1404	31.5	476	952	94.1	641	1282	274.8	641	1282	
		42.0	476	952	112.9	641	1282	571.7	702	1404	38.1	385	770	106.3	563	1126	300.7	641	1282	
		50.7	385	770	127.8	702	1404	632.7	641	1282				123.3	476	952	331.2	641	1282	
					139.2	563	1126	661.8	641	1282				148.8	385	770	361.6	641	1282	
					148.7	641	1282	747.3	563	1126							393.0	476	952	
					155.3	563	1126	768.6	641	1282							453.0	641	1282	
					174.3	563	1126	832.3	641	1282							511.4	563	1126	
					194.8	476	952	869.9	563	1126							557.0	476	952	
					216.7	641	1282	976.4	563	1126							593.9	563	1126	
					244.6	563	1126	1048.6	563	1126							656.7	563	1126	
					283.8	476	952	1177.0	563	1126							717.7	563	1126	
					342.5	385	770	1366.8	563	1126							832.5	476	952	
								1651.4	563	1126							921.5	563	1126	
								2968.8	385	770							1068.9	476	952	

MODELLO - MODEL			PR 701			PR 702			PR703			PR 704			PRA 702			PRA 703			PRA 704		
TIPO USCITA - OUTPUT TYPE			M	F	P	M	F	P	M	F	P	M	F	P	M	F	P	M	F	P	M	F	P
PESO - WEIGHT		Kg.	-	49	67	-	61	79	-	67	85	-	73	91	-	86	104	-	76	94	-	82	100
Olio - Oil Lt.	Orizzontale - Horizontal		-	1.5	1.6	-	1.9	2.0	-	2.2	2.3	-	2.4	2.5	-	3.5	3.6	-	3.7	3.8	-	3.9	4.0
	Verticale - Vertical		-	3.0	3.2	-	3.8	4.0	-	4.4	4.6	-	4.8	5.0	-	5.0	5.2	-	7.4	7.6	-	7.8	8.0



The data specified into this catalogue are for product description purpose only and must not be interpreted as warranted characteristic in legal sense. Intermot reserves the right to implement modification without notice. 21

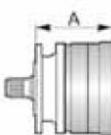
PR 700



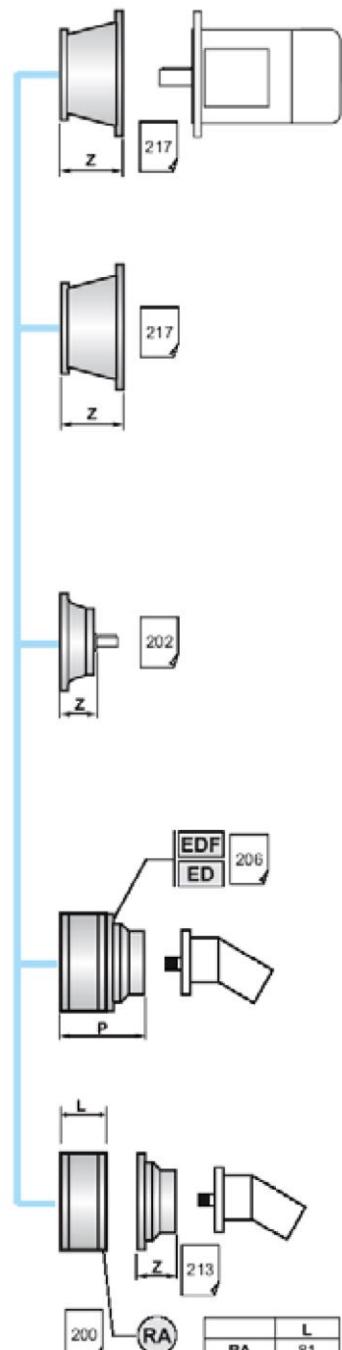
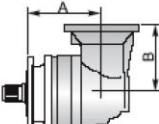
The data specified into this catalogue are for product description purpose only and must not be interpreted as warranted characteristic in legal sense. Intermot reserves the right to implement modification without notice. 22

PR 700

Special versions



	VERSIONE USCITA – OUTPUT TYPE				ENTRATA TIPO INPUT TYPE
	F	PC – PS	CPC	FS	
PR 701	A 197.5	A 251	A 292	A 251	B
PR 702	A 257	A 310.5	A 351.5	A 310.5	A
PR 703	A 305	A 358.5	A 399.5	A 358.5	A
PR 704	A 353	A 406.5	A 447.5	A 406.5	A

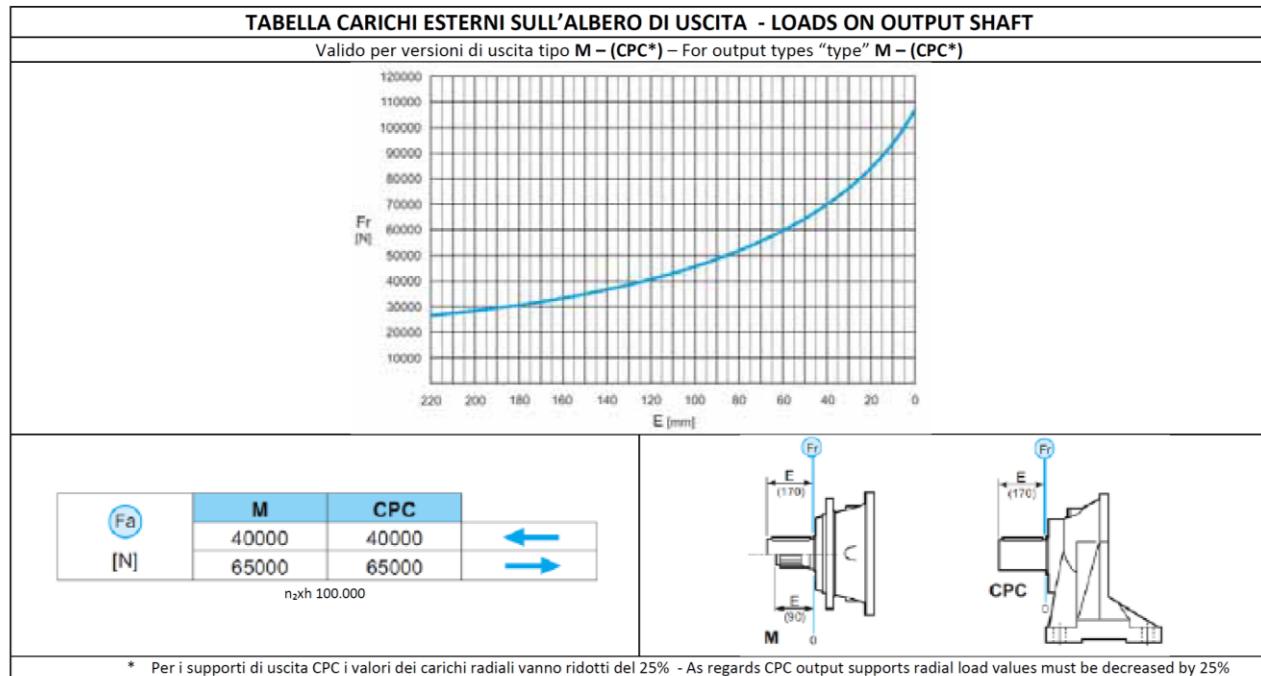
	VERSIONE USCITA – OUTPUT TYPE				ENTRATA TIPO INPUT TYPE
	F	PC – PS	CPC	FS	
PRA 701	A 286 , B 240	A 339 , B 240	A 380 , B 240	A 339 , B 240	A
PRA 702	A 332 , B 159	A 386 , B 159	A 427 , B 159	A 386 , B 159	A
PRA 703	A 380 , B 159	A 434 , B 159	A 475 , B 159	A 434 , B 159	A

PR 1000

Technical data

PR 1001			PR 1002			PR 1003			PR 1004			PRA 1002			PRA 1003			PRA 1004		
n ₁ max 2000 RPM			n ₁ max 2800 RPM																	
Pt(kW) 40			Pt(kW) 23			Pt(kW) 15			Pt(kW) 11			Pt(kW) 23			Pt(kW) 15			Pt(kW) 11		
i	Mc daNm	Mmax daNm																		
3.55	1221	2442	13.4	1221	2442	57.5	1221	2442	351.9	1221	2442	12.2	1221	2442	46.4	1221	2442	140.0	1221	2442
4.28	1050	2100	16.1	1050	2100	62.8	1221	2442	388.5	1221	2442	14.8	1050	2100	50.6	1221	2442	168.8	1221	2442
5.60	816	1632	18.3	1221	2442	75.2	1221	2442	421.2	1221	2442	19.3	816	1632	61.0	1050	2100	184.3	1050	2100
6.75	623	1246	22.1	1050	2100	82.1	1221	2442	440.8	1050	2100	23.3	623	1246	73.1	1221	2442	203.5	1050	2100
8.66	441	882	25.7	1050	2100	94.8	1050	2100	459.9	1221	2442	30.4	816	1632	88.8	1050	2100	230.9	1221	2442
			28.9	816	1632	109.2	1050	2100	507.7	1221	2442	36.7	623	1246	96.2	1050	2100	265.9	1050	2100
			33.6	816	1632	118.4	816	1632	531.4	1050	2100				116.0	816	1632	278.3	1050	2100
			40.5	623	1246	123.9	1050	2100	554.3	1221	2442				120.5	1050	2100	301.7	1221	2442
			48.9	623	1246	129.3	816	1632	576.0	816	1632				125.7	816	1632	320.5	1050	2100
						143.9	1050	2100	611.9	1050	2100				139.9	1050	2100	350.0	1050	2100
						155.9	816	1632	640.5	1050	2100				157.5	816	1632	379.4	816	1632
						173.5	1050	2100	724.4	816	1632				182.9	816	1632	418.8	816	1632
						188.1	816	1632	806.4	816	1632				221.0	816	1632	457.3	816	1632
						195.2	816	1632	907.3	816	1632				266.4	623	1246	510.3	816	1632
						209.7	623	1246	1008.8	1050	2100							551.9	816	1632
						226.8	816	1632	1093.6	816	1632							665.2	816	1632
						235.4	623	1246	1270.0	816	1632							803.8	816	1632
						274.0	816	1632	1530.9	816	1632							968.9	623	1246
						330.3	623	1246	1849.8	816	1632									
									2229.7	623	1246									

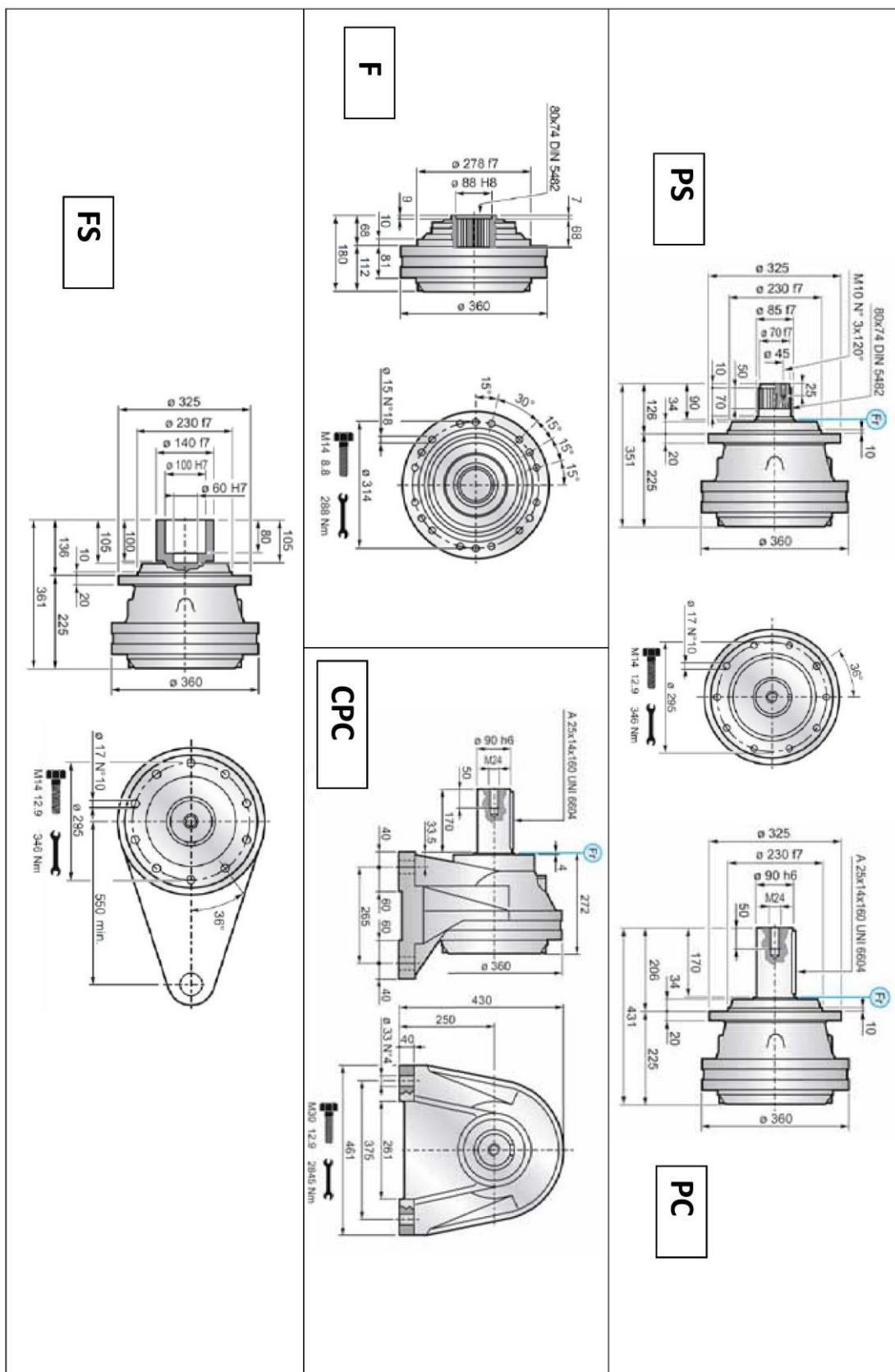
MODELLO - MODEL			PR 1001			PR 1002			PR 1003			PR 1004			PRA 1002			PRA 1003			PRA 1004		
TIPO USCITA - OUTPUT TYPE			M	F	P	M	F	P	M	F	P	M	F	P	M	F	P	M	F	P	M	F	P
PESO - WEIGHT		Kg.	97	65	-	113	81	-	121	89	-	127	95	-	134	102	-	153	121	-	136	104	-
Olio - Oil Lt.	Orizzontale - Horizontal		2.4	2.2	-	3.1	2.9	-	3.5	3.3	-	3.8	3.6	-	4.4	4.2	-	5.1	4.9	-	6.5	5.5	-
	Verticale - Vertical		4.8	4.4	-	6.2	5.8	-	7.0	6.6	-	7.6	7.2	-	8.4	6.2	-	8.1	7.8	-	11.9	11.5	-



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PR 1000

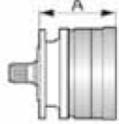
Dimensional drawing



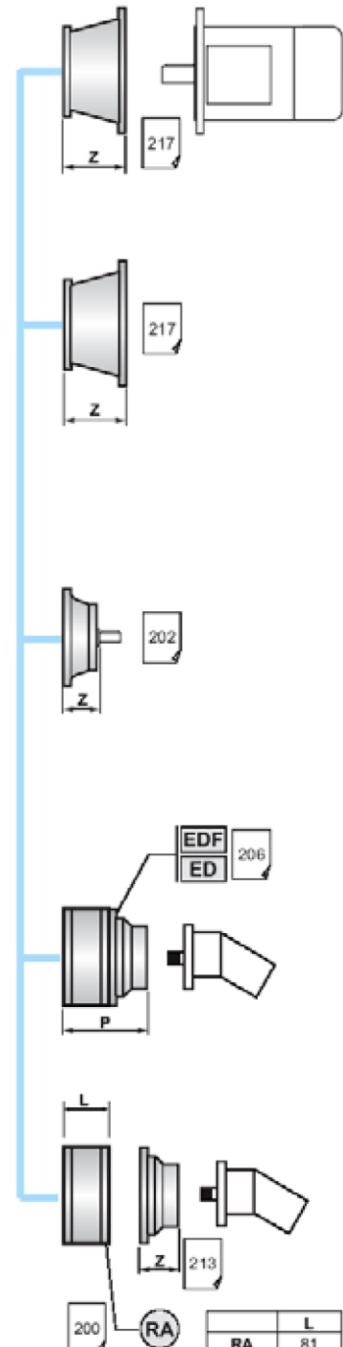
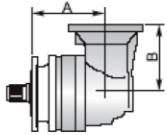
The data specified into this catalogue are for product description purpose only and must not be interpreted as warranted characteristic in legal sense. Intermot reserves the right to implement modification without notice. 25

PR 1000

Special versions



VERSIONE USCITA – OUTPUT TYPE					ENTRATA TIPO INPUT TYPE
F	MC – MS	CPC	FS		
PR 1001	A 112	A 225	A 272	A 225	B
PR 1002	A 184	A 297	A 344	A 297	A
PR 1003	A 245	A 358	A 405	A 358	A
PR 1004	A 293	A 406	A 453	A 406	A

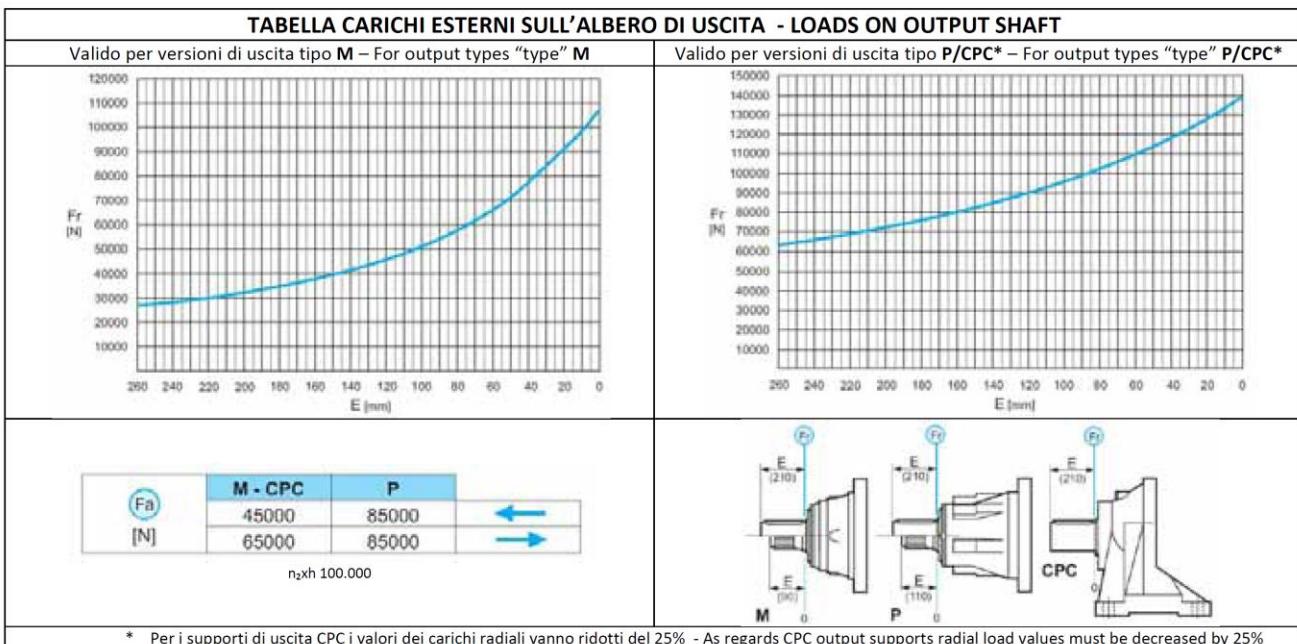
VERSIONE USCITA – OUTPUT TYPE					ENTRATA TIPO INPUT TYPE
F	MC – MS	CPC	FS		
PRA 1002	A 200 , B 240	A 313 , B 240	A 360 , B 240	A 313 , B 240	A
PRA 1003	A 285 , B 240	A 398 , B 240	A 445 , B 240	A 398 , B 240	A
PRA 1004	A 320 , B 159	A 433 , B 159	A 480 , B 159	A 433 , B 159	A

PR 1600

Technical data

PR 1601			PR 1602			PR 1603			PR 1604			PRA 1602			PRA 1603			PRA 1604		
n ₁ max 2000 RPM			n ₁ max 2800 RPM																	
Pt(kW) 40			Pt(kW) 23			Pt(kW) 15			Pt(kW) 11			Pt(kW) 23			Pt(kW) 15			Pt(kW) 11		
i	Mc daNm	Mmax daNm																		
3.55	1802	3604	13.4	1802	3604	57.5	1802	3604	351.9	1802	3604	12.2	1802	3604	46.4	1802	3604	140.0	1802	3604
4.28	1570	3140	16.1	1570	3140	62.8	1802	3604	388.5	1802	3604	14.8	1570	3140	50.6	1802	3604	168.8	1802	3604
5.60	1201	2402	22.1	1570	3140	75.2	1802	3604	421.2	1802	3604	19.3	1201	2402	61.0	1570	3140	184.3	1570	3140
6.75	913	1826	28.9	1201	2402	82.1	1802	3604	440.8	1570	3140	23.3	913	1826	76.5	1570	3140	203.5	1570	3140
			33.6	1201	2402	94.8	1570	3140	459.9	1802	3604	30.4	1201	2402	88.8	1570	3140	230.9	1570	3140
			40.5	913	1826	109.2	1570	3140	507.7	1802	3604	36.7	913	1826	96.2	1570	3140	240.9	1201	2402
			48.9	913	1826	118.4	1201	2402	531.4	1570	3140				116.0	1201	2402	290.4	1570	3140
						123.9	1570	3140	554.3	1802	3604				120.5	1570	3140	301.7	1201	2402
						129.3	1201	2402	576.0	1201	2402				125.7	1201	2402	320.6	1570	3140
						143.9	1201	2402	611.9	1570	3140				139.9	1570	3140	347.5	1201	2402
						155.9	1201	2402	640.5	1570	3140				157.5	1201	2402	379.4	1201	2402
						188.1	1201	2402	724.4	1201	2402				182.9	1201	2402	418.8	1201	2402
						195.2	1201	2402	806.4	1201	2402				221.0	1201	2402	457.3	1201	2402
						209.7	913	1826	907.3	1201	2402				226.4	913	1826	510.3	1201	2402
						226.8	1201	2402	1008.8	1570	3140							551.9	1201	2402
						235.4	913	1826	1093.6	1201	2402							665.2	1201	2402
						274.0	1201	2402	1270.0	1201	2402							803.8	1201	2402
						330.3	913	1826	1530.9	1201	2402							968.9	913	1826
									1849.8	1201	2402									
									2229.7	913	1826									

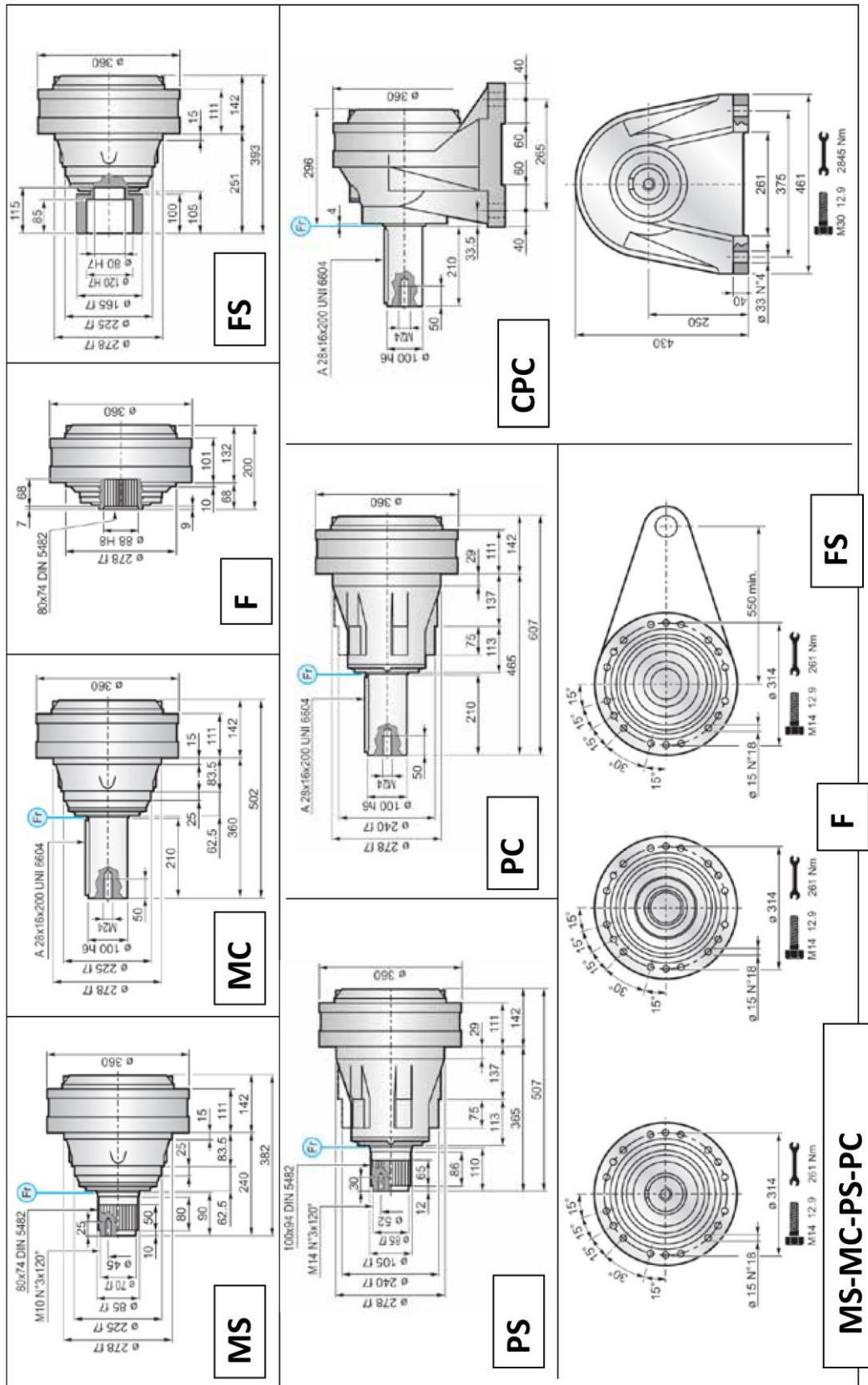
MODELLO - MODEL			PR 1601			PR 1602			PR 1603			PR 1604			PRA 1602			PRA 1603			PRA 1604		
TIPO USCITA - OUTPUT TYPE			M	F	P	M	F	P	M	F	P	M	F	P	M	F	P	M	F	P	M	F	P
PESO - WEIGHT	Kg.		105	74	132	121	90	148	129	98	156	135	104	162	142	111	169	161	130	188	144	113	171
Olio - Oil Lt.	Orizzontale - Horizontal		2.6	1.9	4.3	3.3	2.6	5.0	3.7	3.0	5.4	4.0	3.3	5.7	4.6	3.9	6.3	5.3	4.6	7.0	6.5	5.8	7.3
	Verticale - Vertical		5.2	3.8	6.9	6.6	5.2	8.3	7.4	6.0	9.1	8.0	6.6	9.7	7.2	5.8	8.9	8.6	7.2	10.3	13.0	11.6	14.6



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PR 1600

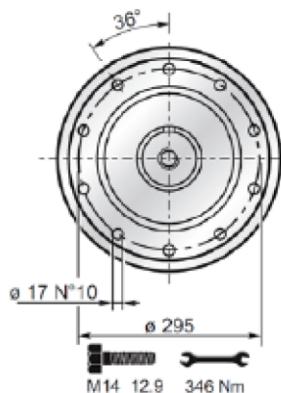
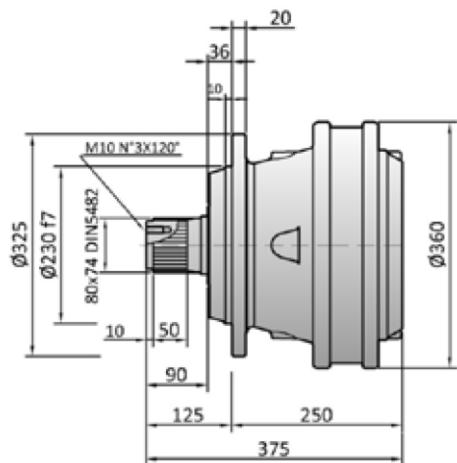
Dimensional drawing



The data specified into this catalogue are for product description purpose only and must not be interpreted as warranted characteristic in legal sense. Intermot reserves the right to implement modification without notice. **28**

PR 1600

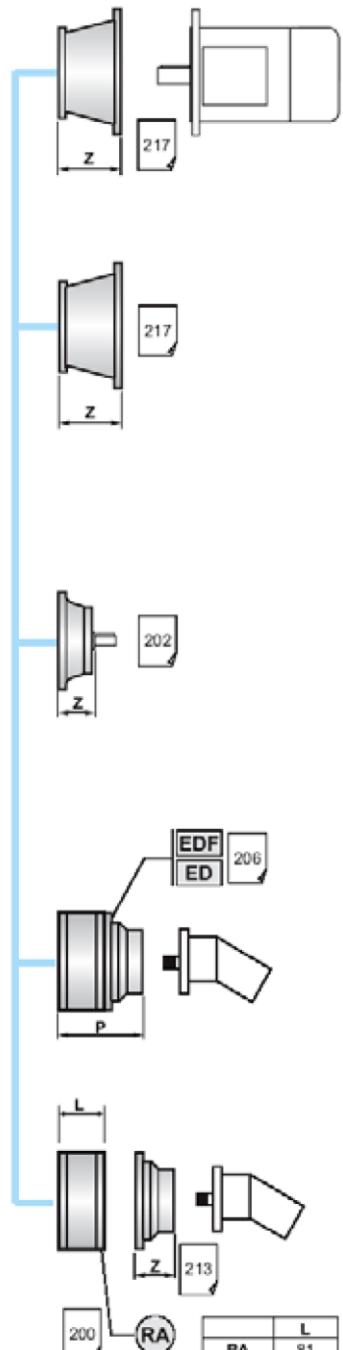
Special Versions



MFS

	VERSIONE USCITA – OUTPUT TYPE					ENTRATA TIPO INPUT TYPE
	MC – MS FS	F	PC – PS	CPC	MFS	
PR 1601	A 142	A 132	A 142	A 296	A 250	B
PR 1602	A 214	A 204	A 214	A 318	A 311	A
PR 1603	A 275	A 265	A 275	A 429	A 359	A
PR 1604	A 323	A 313	A 323	A 477	A 407	A

	VERSIONE USCITA – OUTPUT TYPE					ENTRATA TIPO INPUT TYPE
	MC – MS FS	F	PC – PS	CPC	MFS	
PRA 1602	A 230 , B 240	A 220 , B 240	A 230 , B 240	A 384 , B 240	A 338 , B 240	A
PRA 1603	A 315 , B 240	A 305 , B 240	A 315 , B 240	A 469 , B 240	A 423 , B 240	A
PRA 1604	A 350 , B 159	A 340 , B 159	A 350 , B 159	A 504 , B 159	A 458 , B 159	A

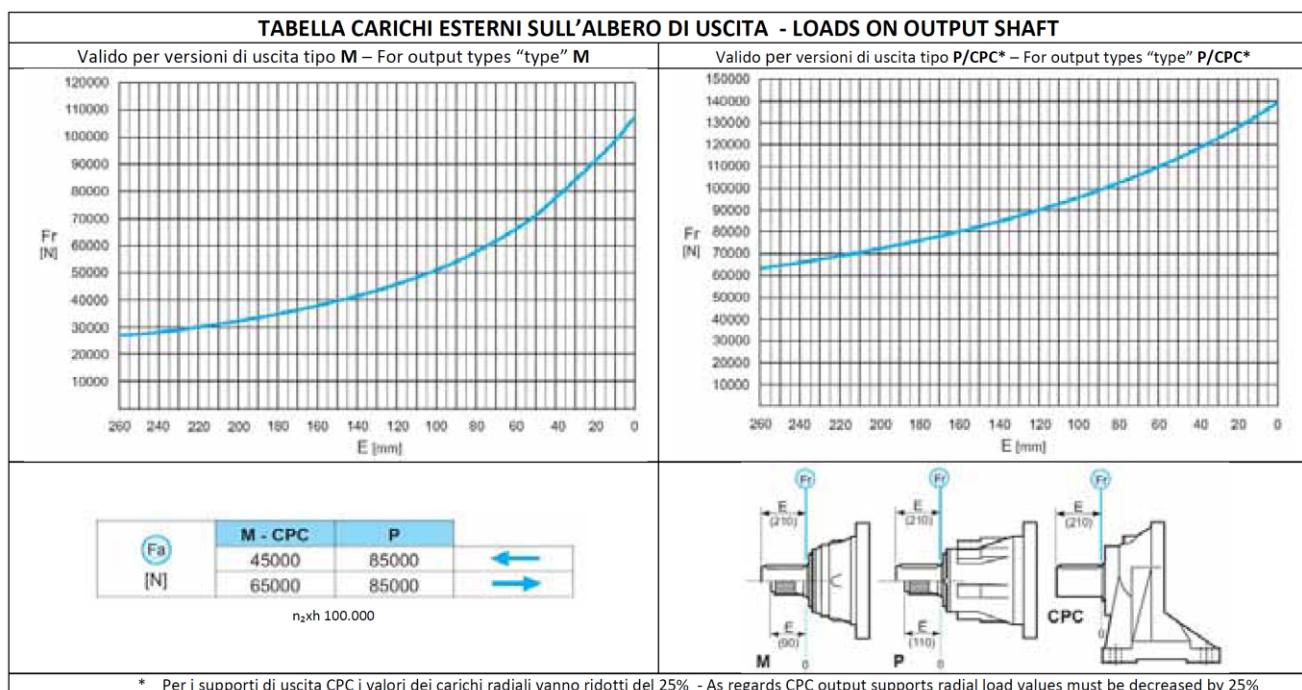


PR 1800

Technical data

PR 1802			PR 1803			PR 1804			PRA 1802			PRA 1803			PRA 1804		
n ₁ max 2800 RPM			n ₁ max 2800 RPM			n ₁ max 2800 RPM			n ₁ max 2000 RPM			n ₁ max 2800 RPM			n ₁ max 2800 RPM		
Pt(kW) 25		Pt(kW) 17		Pt(kW) 13		Pt(kW) 25		Pt(kW) 17		Pt(kW) 13		Pt(kW) 25		Pt(kW) 17		Pt(kW) 13	
i	Mc daNm	Mmax daNm	i	Mc daNm	Mmax daNm	i	Mc daNm	Mmax daNm	i	Mc daNm	Mmax daNm	i	Mc daNm	Mmax daNm	i	Mc daNm	Mmax daNm
13.0	1802	3604	53.8	1802	3604	348.6	1802	3604	10.9	1802	3604	54.4	1802	3604	185.8	1802	3604
15.7	1802	3604	65.0	1802	3604	377.2	1802	3604	13.2	1570	3140	71.2	1802	3604	224.4	1802	3604
19.0	1570	6152	73.3	1802	3604	438.4	1802	3604	16.6	1802	3604	85.7	1802	3604	281.0	1802	3604
21.4	1570	4756	81.3	1802	3604	489.2	1802	3604	20.0	1570	3140	103.3	1570	3140	323.8	1802	3604
24.9	1570	4756	94.5	1802	3604	549.1	1802	3604				116.7	1570		353.6	1802	3604
30.0	1570	4756	106.6	1802	3604	620.0	1802	3604				135.5	1802		394.3	1802	3604
			128.4	1570	3140	677.9	1802	3604				163.3	1570		442.9	1802	3604
			149.1	1570	3140	720.0	1802	3604							500.0	1802	3604
			180.2	1570	3140	770.5	1802	3604							558.2	1570	3140
						818.8	1802	3604							580.7	1802	3604
						849.8	1570	3140							622.5	1570	3140
						928.8	1570	3140							699.2	1570	3140
						987.4	1570	3140							749.1	1570	3140
						1113.0	1570	3140							812.0	1570	3140
						1216.4	1570	3140							981.1	1570	3140

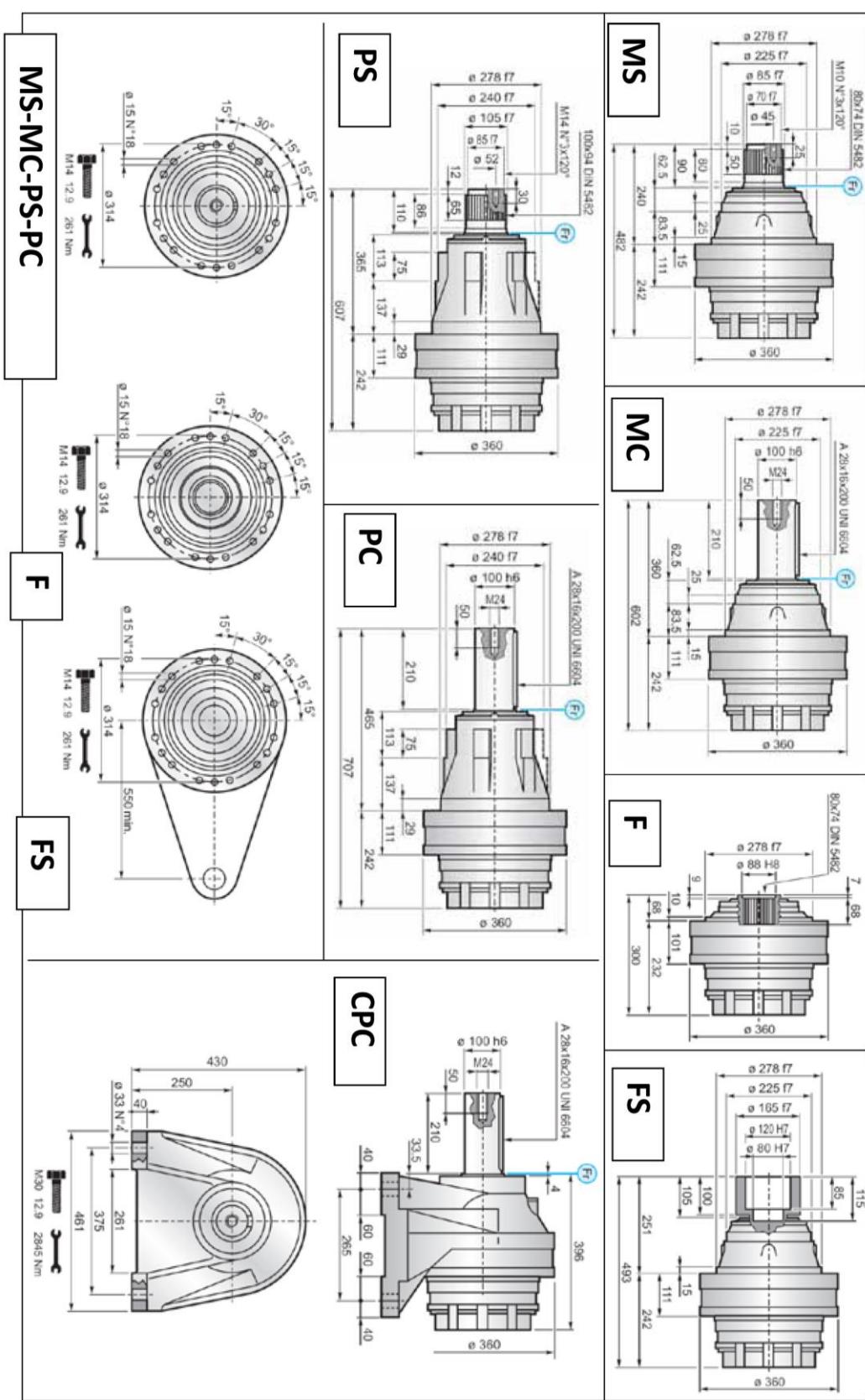
MODELLO - MODEL			PR 1802			PR 1803			PR 1804			PRA 1802			PRA 1803				
TIPO USCITA - OUTPUT TYPE	M	F	P	M	F	P	M	F	P	M	F	P	M	F	P	M	F	P	
PESO - WEIGHT	Kg.	130	99	157	142	111	169	149	118	176	197	166	224	167	136	194	169	138	196
Olio - Oil Lt.	Orizzontale - Horizontal	3.9	3.2	5.6	4.6	3.9	6.3	4.9	4.2	6.6	5.6	4.9	7.3	5.9	5.2	7.6	6.6	5.9	8.3
	Verticale - Vertical	7.8	6.4	11.2	9.2	7.8	12.6	9.8	8.4	13.2	11.2	9.8	14.6	11.8	10.4	15.2	13.2	11.8	16.6



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PR 1800

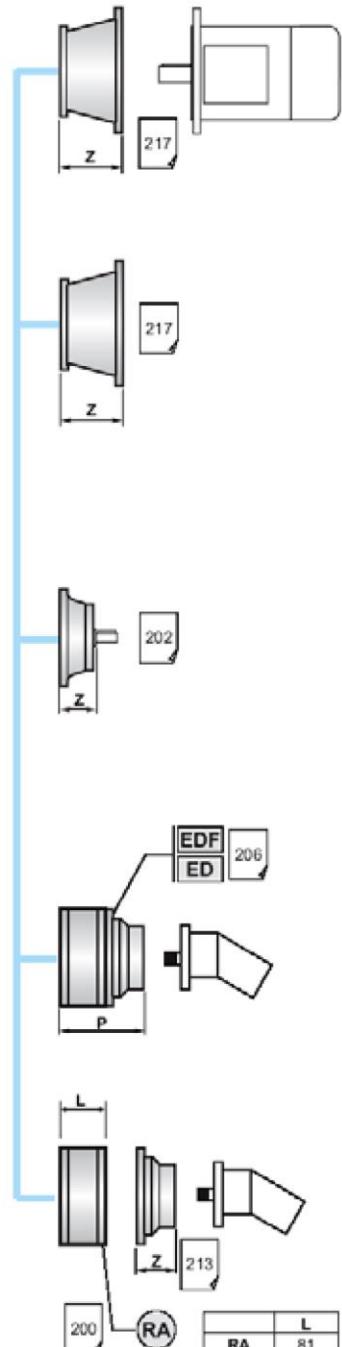
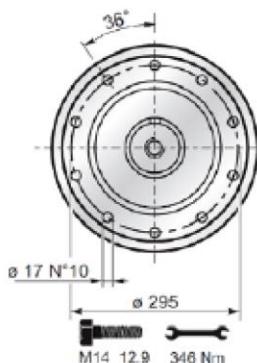
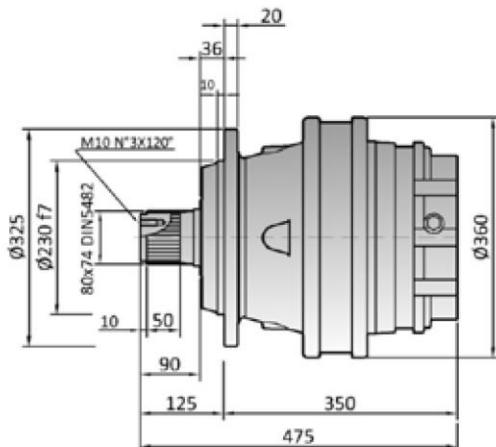
Dimensional drawings



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PR 1800

Special versions



MFS

	VERSIONE USCITA – OUTPUT TYPE					ENTRATA TIPO INPUT TYPE
	MC – MS FS	F	PC – PS	CPC	MFS	
PR 1802	A 242	A 232	A 242	A 396	A 350	B
PR 1803	A 302	A 292	A 302	A 456	A 410	A
PR 1804	A 346	A 336	A 346	A 504	A 454	A

	VERSIONE USCITA – OUTPUT TYPE					ENTRATA TIPO INPUT TYPE
	MC – MS FS	F	PC – PS	CPC	MFS	
PRA 1802	A 277 , B 315	A 267 , B 315	A 277 , B 315	A 431 , B 315	A 385 , B 315	A
PRA 1803	A 334 , B 240	A 324 , B 240	A 334 , B 240	A 484 , B 240	A 442 , B 240	A
PRA 1804	A 407 , B 240	A 397 , B 240	A 407 , B 240	A 544 , B 240	A 515 , B 240	A

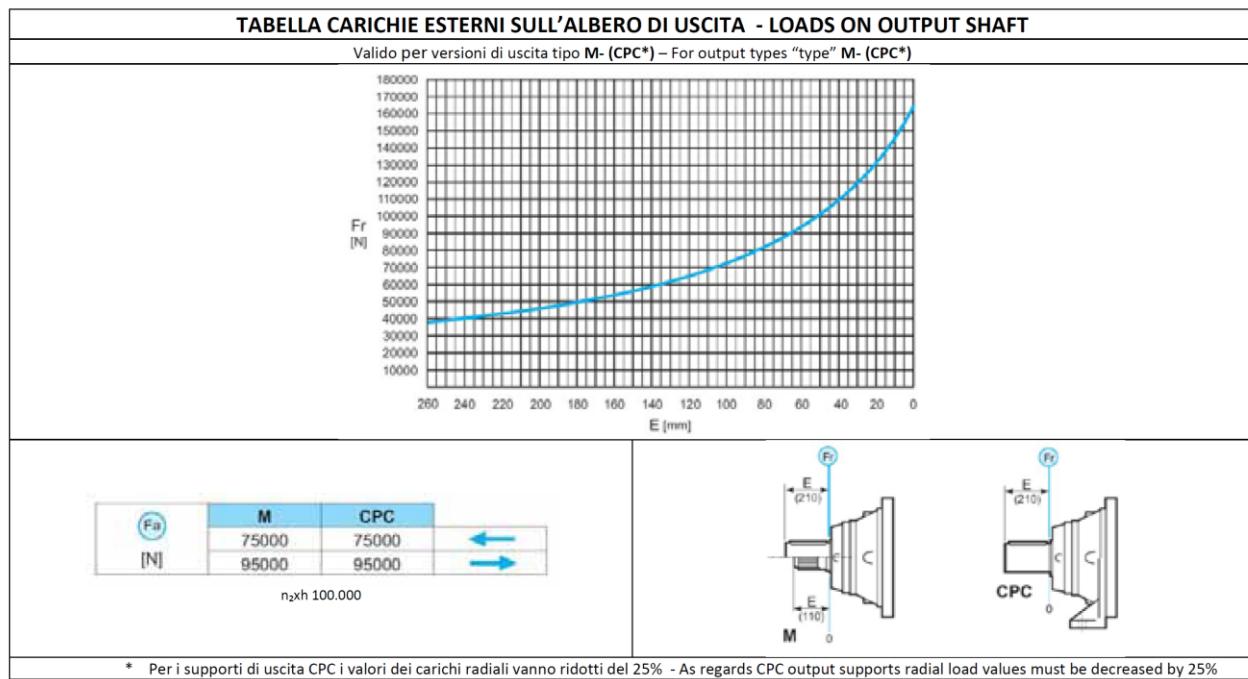
The data specified into this catalogue are for product description purpose only and must not be interpreted as warranted characteristic in legal sense. Intermot reserves the right to implement modification without notice. 32

PR 2500

Technical data

PR 2501			PR 2502			PR 2503			PR 2504			PRA 2502			PRA 2503			PRA 2504		
n ₁ max 1500 RPM			n ₁ max 2800 RPM			n ₁ max 2800 RPM			n ₁ max 2800 RPM			n ₁ max 2000 RPM			n ₁ max 2800 RPM			n ₁ max 2800 RPM		
Pt(kW) 50			Pt(kW) 30			Pt(kW) 20			Pt(kW) 15			Pt(kW) 30			Pt(kW) 20			Pt(kW) 15		
i	Mc daNm	Mmax daNm																		
4.00	3076	6152	14.6	3076	6152	55.4	3076	6152	338.7	3076	6152	12.2	3076	6152	50.6	3076	6152	252.4	3076	6152
5.20	2378	4756	17.7	3076	6152	60.5	3076	6152	373.9	3076	6152	15.9	2378	4756	61.2	3076	6152	284.9	3076	6152
6.25	1835	3670	20.0	3076	6152	73.0	3076	6152	408.3	3076	6152	19.1	1835	3670	69.0	3076	6152	303.9	3076	6152
			23.0	2378	4756	88.0	3076	6152	424.3	3076	6152	24.2	2378	4756	79.5	2378	4756	364.3	3076	6152
			26.0	2378	4756	95.0	2378	4756	455.5	3076	6152	29.1	1835	3670	89.8	2378	4756	397.8	3076	6152
			30.1	2378	4756	106.3	3076	6152	493.2	3076	6152				96.4	3076	6152	449.1	3076	6152
			36.2	1835	3670	114.4	2378	4756	556.8	3076	6152				104.1	2378	4756	498.2	3076	6152
			43.7	1835	3670	128.4	3076	6152	617.7	3076	6152				125.3	2378	4756	562.5	3076	6152
						134.3	2378	4756	697.4	3076	6152				141.5	2378	4756	651.1	2378	4756
						156.0	2378	4756	752.2	2378	4756	23.76	2,022		164.2	2378	4756	731.3	2378	4756
						167.0	2378	4756	803.0	2378	4756	23.76	2,022		197.3	1835		789.4	3076	6152
						188.5	2378	4756	873.6	2378	4756	23.76	2,022		238.1	1835		985.2	2378	4756
						218.6	2378	4756	934.9	2378	4756	23.76	2,022				1190.4	2378	4756	
						226.5	1835	3670	1013.3	2378	4756	23.76	2,022				1430.8	1835	3670	
						262.8	1835	3670	1126.9	2378	4756	23.76	2,022				1726.8	1835	3670	
						317.1	1835	3670	1272.3	2378	4756	23.76	2,022							
									1354.4	1835	3670									
									1475.9	2378	4756	23.76	2,022							
									1529.3	1835	3670									
									1773.9	1835	3670									

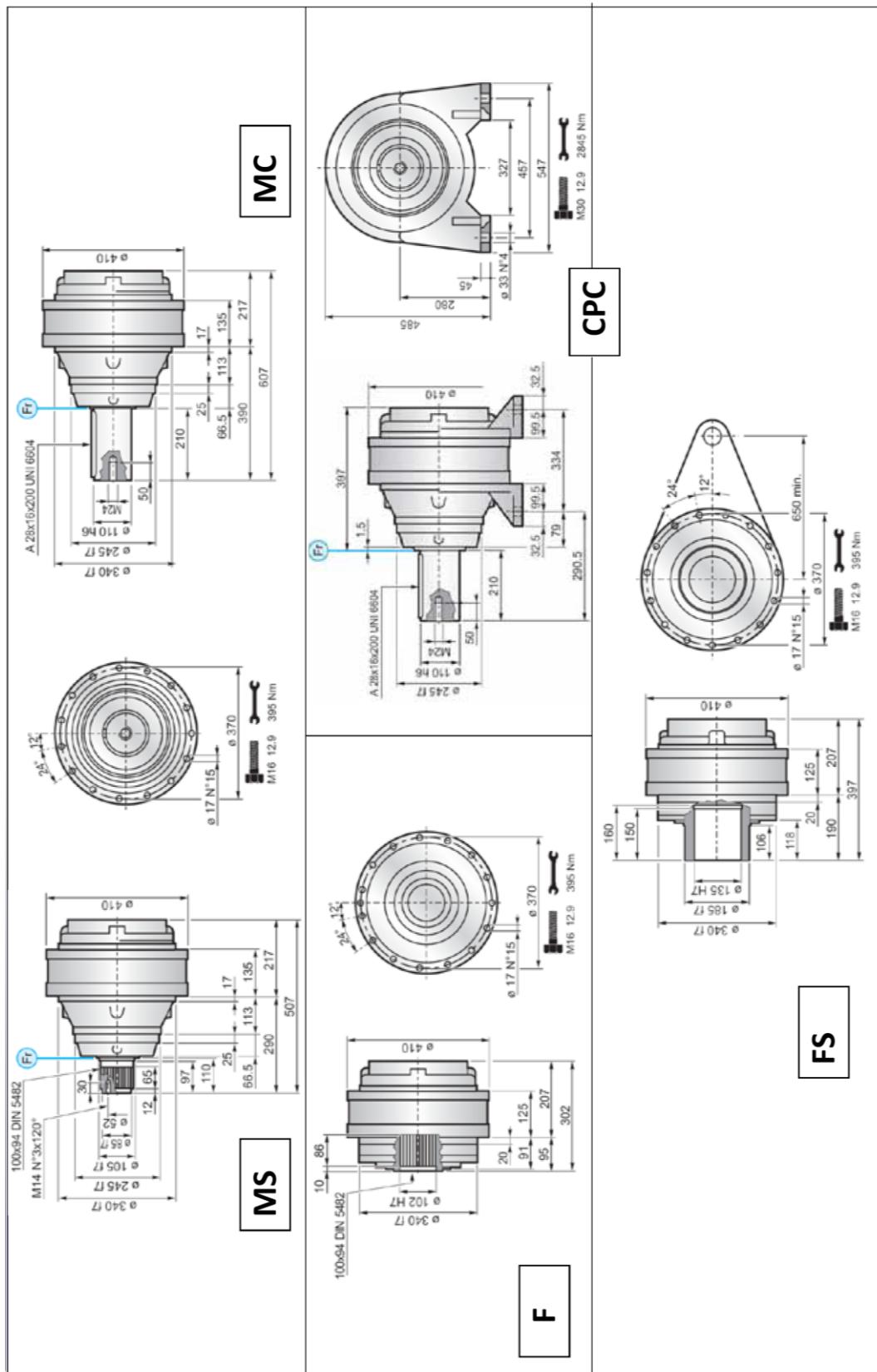
MODELLO - MODEL			PR 2501			PR 2502			PR 2503			PR 2504			PRA 2502			PRA 2503			PRA 2504		
TIPO USCITA - OUTPUT TYPE			M	F	P	M	F	P	M	F	P	M	F	P	M	F	P	M	F	P	M	F	P
PESO - WEIGHT	Kg.	183	147	-	210	174	-	222	186	-	228	192	-	247	211	-	247	211	-	262	226	-	
Olio - Oil Lt.	Orizzontale - Horizontal	3.7	2.9	-	4.6	3.8	-	5.0	4.2	-	5.3	4.5	-	9.1	8.3	-	6.6	5.8	-	7.0	6.2	-	
	Verticale - Vertical	7.4	5.8	-	9.2	7.6	-	10.0	8.4	-	10.6	9.0	-	16.2	14.6	-	11.2	9.6	-	12.0	10.4	-	



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PR 2500

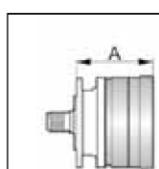
Dimensional drawing



The data specified into this catalogue are for product description purpose only and must not be interpreted as warranted characteristic in legal sense. Intermot reserves the right to implement modification without notice.

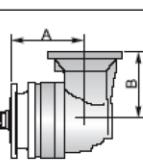
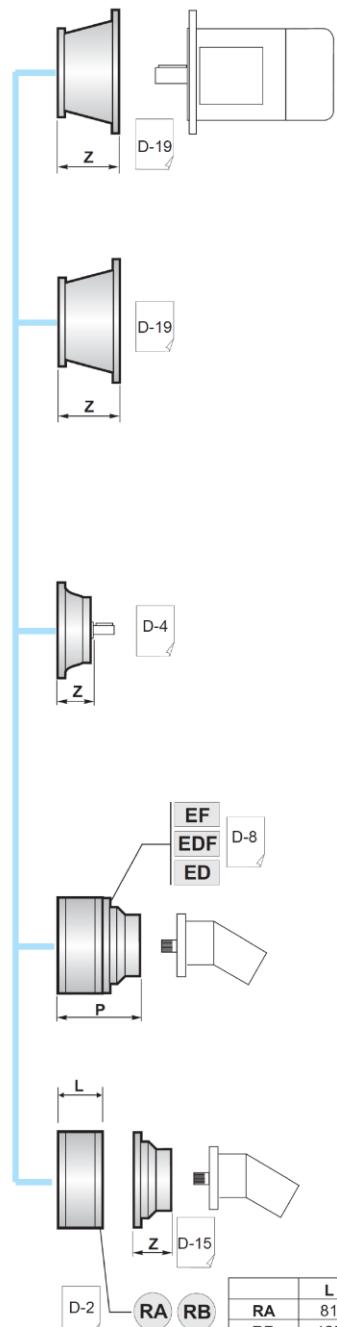
PR 2500

Special versions



VERSIONE USCITA – OUTPUT TYPE

	F	MS - MC	CPC	FS	
PR 2501	A 207	A 217	A 397	A 207	B
PR 2502	A 301	A 311	A 491	A 301	A
PR 2503	A 360.5	A 370.5	A 550.5	A 360.5	A
PR 2504	A 408.5	A 418.5	A 598.5	A 408.5	A

ENTRATA TIPO
INPUT TYPE

VERSIONE USCITA – OUTPUT TYPE

	F	MS - MC	CPC	FS	
PRA 2501	A 287, B 315	A 297, B 315	A 477, B 315	A 287, B 315	A
PRA 2502	A 389, B 240	A 399, B 240	A 579, B 240	A 389, B 240	A
PRA 2503	A 462, B 240	A 472, B 240	A 638.5, B 240	A 462, B 240	A

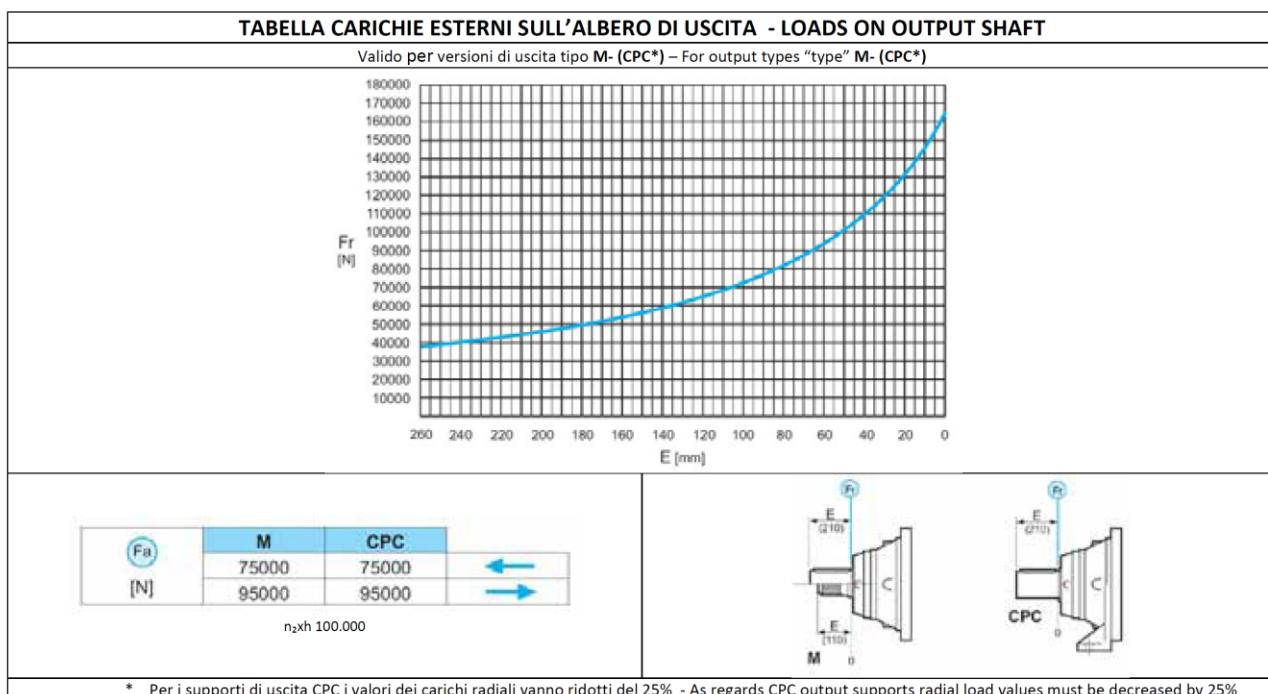
ENTRATA TIPO
INPUT TYPE

PR 3000

Technical data

PR 3002			PR 3003			PR 3004			PRA 3003			PRA 3004		
n ₁ max 2000 RPM			n ₁ max 2800 RPM											
Pt(kW) 34			Pt(kW) 23			Pt(kW) 17			Pt(kW) 23			Pt(kW) 17		
i	Mc daNm	Mmax daNm												
14.2	3076	6152	64.6	3076	6152	251.4	3076	6152	59.2	3076	6152	306.0	3076	6152
17.1	3076	6152	73.5	3076	6152	300.9	3076	6152	77.4	3076	6152	352.6	3076	6152
22.4	3076	6152	88.6	3076	6152	314.9	3076	6152	93.3	3076	6152	385.0	3076	6152
29.1	2378	4756	102.9	3076	6152	328.5	3076	6152	121.0	3076	6152	460.7	3076	6152
35.1	2378	4756	124.3	3076	6152	362.6	3076	6152	158.6	2378	4756	519.8	2378	4756
			134.4	3076	6152	379.6	3076	6152	191.1	2378	4756	598.9	2378	4756
						396.0	3076	6152				676.7	3076	6152
						427.0	3076	6152				729.3	2378	4756
						477.3	3076	6152				819.1	2378	4756
						517.4	3076	6152				951.2	2378	4756
						576.0	3076	6152				1385.5	2378	4756
						623.7	3076	6152						
						694.3	3076	6152						
						752.6	3076	6152						
						838.9	3076	6152						
						1015.5	2378	4756						
						1425.0	2378	4756						

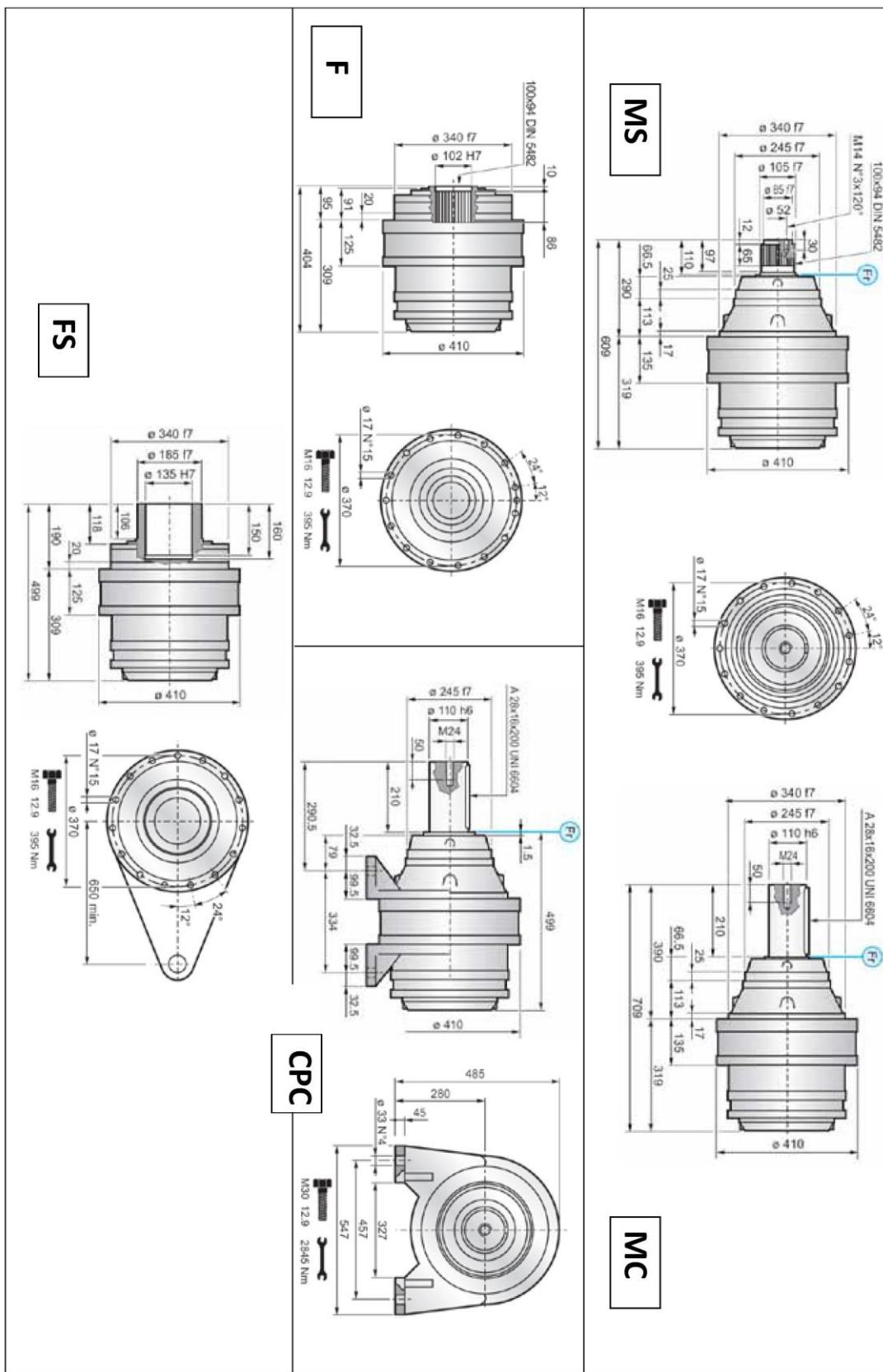
MODELLO - MODEL		PR 3002			PR 3003			PR 3004			PRA 3003			PRA 3004		
TIPO USCITA - OUTPUT TYPE		M	F	P	M	F	P	M	F	P	M	F	P	M	F	P
Olio - Oil Lt.	Orizzontale - Horizontal	237	196	-	253	212	-	261	220	-	336	299	-	293	252	-
	Verticale - Vertical	5.3	4.5	-	5.8	5.0	-	6.1	5.3	-	10.2	9.4	-	8.2	7.0	-
		10.6	9.0	-	11.6	10.0	-	12.2	10.6	-	20.4	18.8	-	16.4	14.0	-



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PR 3000

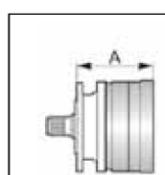
Dimensional drawings



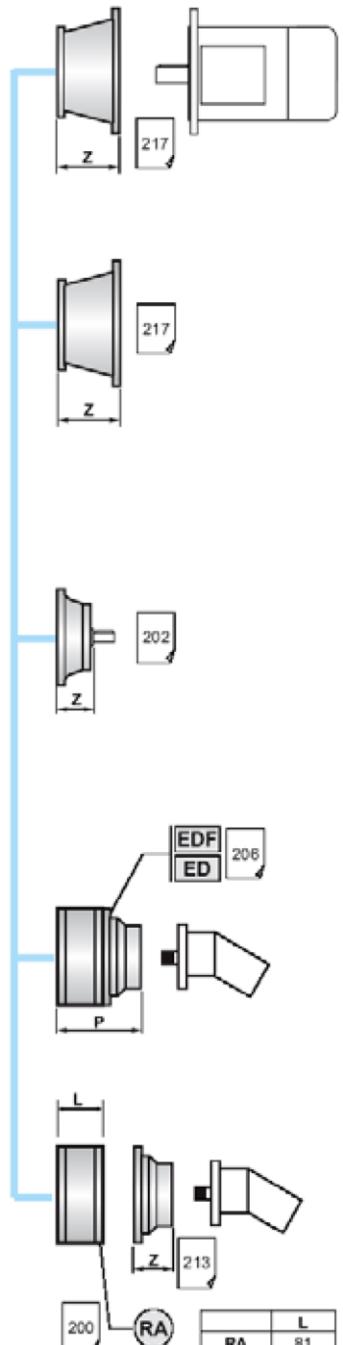
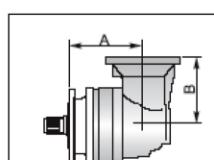
The data specified into this catalogue are for product description purpose only and must not be interpreted as warranted characteristic in legal sense. Intermot reserves the right to implement modification without notice. **37**

PR 3000

Special versions



	VERSIONE USCITA – OUTPUT TYPE				ENTRATA TIPO INPUT TYPE
	F	MC – MS	CPC	FS	
PR 3002	A 309	A 319	A 499	A 309	B
PR 3003	A 381	A 391	A 571	A 381	A
PR 3004	A 442	A 452	A 632	A 442	A

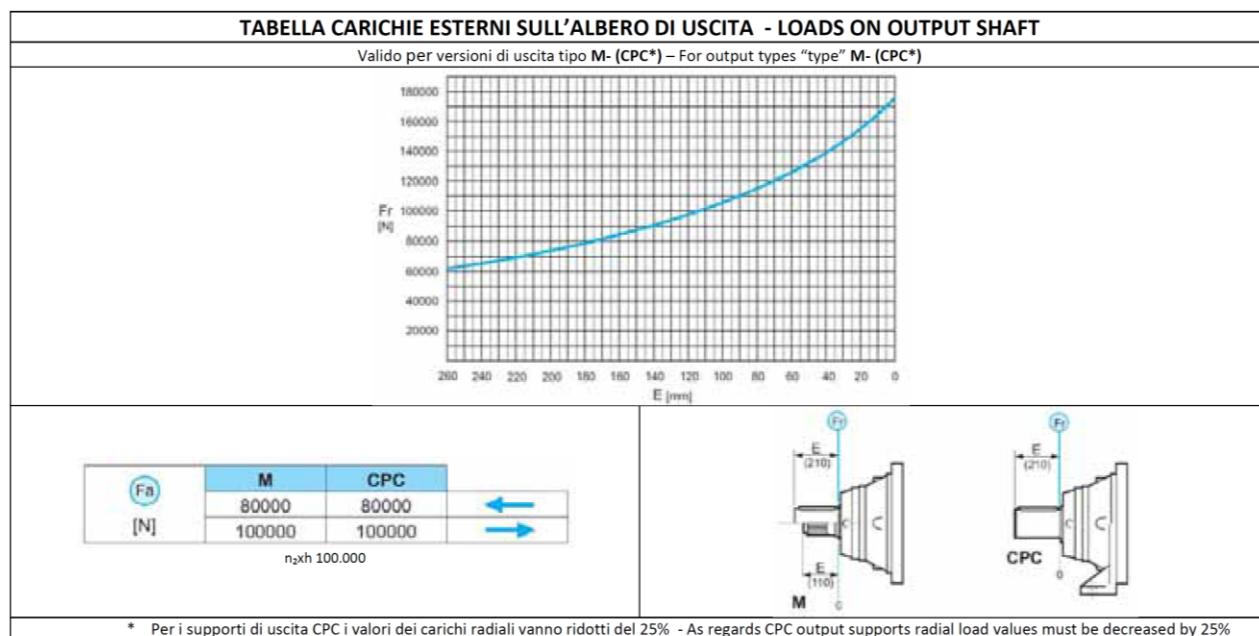
	VERSIONE USCITA – OUTPUT TYPE				ENTRATA TIPO INPUT TYPE
	F	MC – MS	CPC	FS	
PRA 3003	A 397 , B 240	A 407 , B 240	A 586 , B 240	A 397 , B 240	A
PRA 3004	A 469 , B 240	A 479 , B 240	A 657 , B 240	A 469 , B 240	A

PR 3500

Technical data

PR 3501			PR 3502			PR 3503			PR 3504			PRA 3502			PRA 3503			PRA 3504		
n ₁ max 1500 RPM			n ₁ max 2000 RPM			n ₁ max 2800 RPM			n ₁ max 2800 RPM			n ₁ max 2000 RPM			n ₁ max 2800 RPM			n ₁ max 2800 RPM		
Pt(kW) 54			Pt(kW) 34			Pt(kW) 23			Pt(kW) 17			Pt(kW) 34			Pt(kW) 23			Pt(kW) 17		
i	Mc daNm	Mmax daNm																		
4.00	3750	7500	14.2	3750	7500	53.7	3750	7500	191.0	3750	7500	12.3	3750	7500	43.7	3750	7500	185.6	3750	7500
4.71	3196	6392	17.1	3750	7500	58.7	3750	7500	208.6	3750	7500	14.5	3196	6392	52.7	3750	7500	202.7	3750	7500
			20.2	3196	6392	64.8	3750	7500	230.3	3750	7500	18.7	3750	7500	66.4	3750	7500	223.7	3750	7500
			22.4	3750	7500	70.7	3750	7500	251.4	3750	7500	22.0	3196	6392	80.0	3750	7500	244.3	3750	7500
			26.4	3196	6392	83.2	3196	6392	277.6	3750	7500				94.1	3196	6392	292.5	3750	7500
			31.8	3196	6392	88.6	3750	7500	303.1	3750	7500				123.0	3196	6392	319.4	3750	7500
			40.8	3196	6392	99.6	3196	6392	328.5	3750	7500							352.6	3750	7500
						108.7	3196	6392	362.7	3750	7500							385.0	3750	7500
						121.0	3196	6392	379.6	3750	7500							414.8	3196	6392
						136.2	3196	6392	437.1	3750	7500							452.9	3196	6392
						158.1	3196	6392	496.0	3750	7500							542.0	3196	6392
						164.1	3196	6392	583.5	3196	6392							591.8	3196	6392
						191.1	3196	6392	677.7	3196	6392							658.8	3196	6392
						230.3	3196	6392	703.4	3196	6392							741.3	3196	6392
									762.5	3196	6392							860.9	3196	6392
									816.8	3196	6392							1037.7	3196	6392
									987.0	3196	6392							1253.8	3196	6392
									1067.3	3196	6392									
									1289.7	3196	6392									

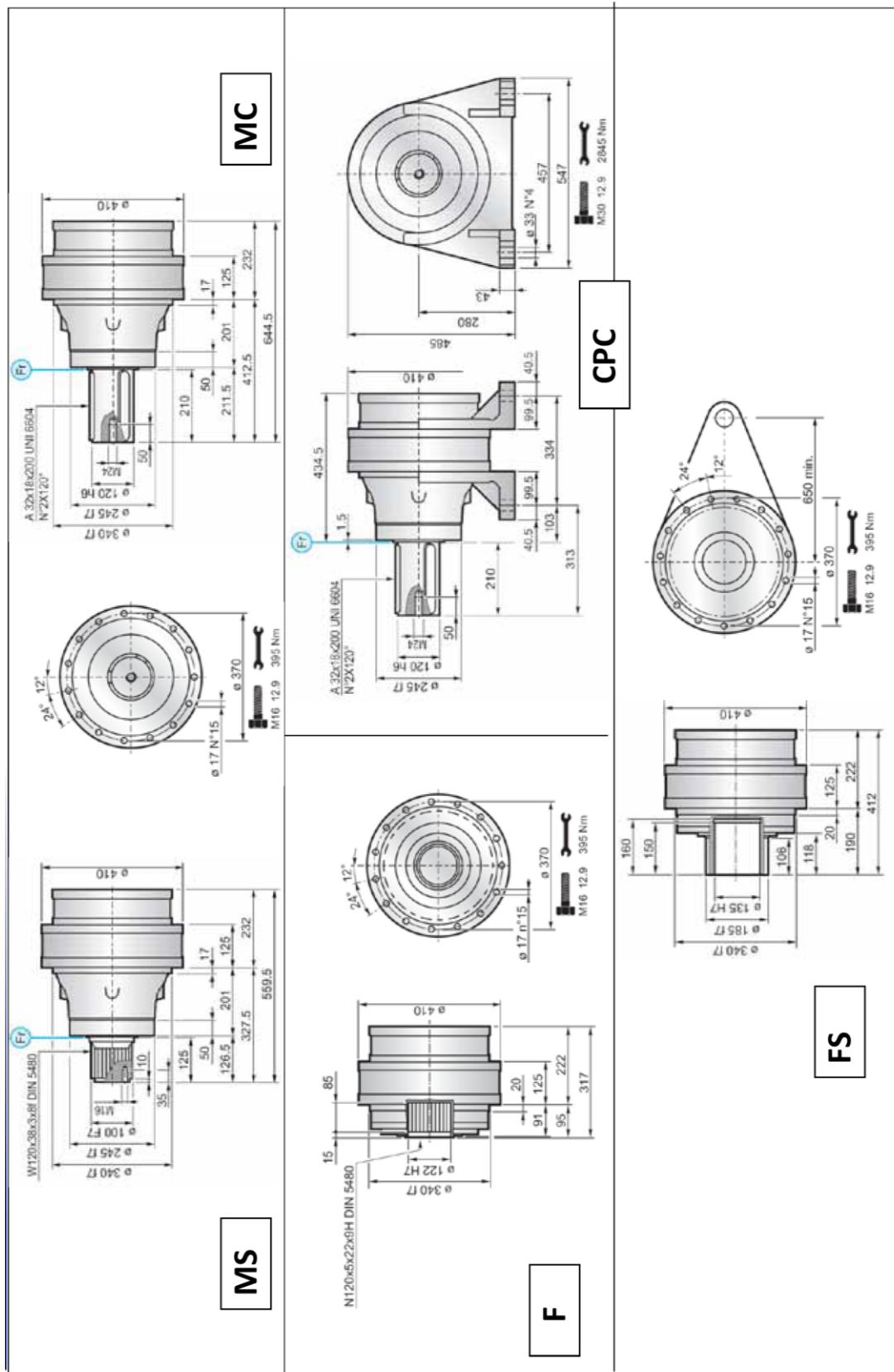
MODELLO - MODEL			PR 3501			PR 3502			PR 3503			PR 3504			PRA 3502			PRA 3503			PRA 3504		
TIPO USCITA - OUTPUT TYPE			M	F	P	M	F	P	M	F	P	M	F	P	M	F	P	M	F	P	M	F	P
PESO - WEIGHT	Kg.	193	156	-	243	207	-	259	223	-	267	231	-	285	248	-	342	305	-	299	263	-	
Olio - Oil Lt.	Orizzontale - Horizontal	4.0	3.3	-	5.5	4.7	-	6.0	5.2	-	6.3	5.5	-	6.7	5.8	-	10.2	9.4	-	8.2	7.0	-	
	Verticale - Vertical	8.0	6.6	-	11.0	9.4	-	12.0	10.4	-	12.6	11.0	-	13.4	11.6	-	20.4	18.8	-	16.4	14.0	-	



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PR 3500

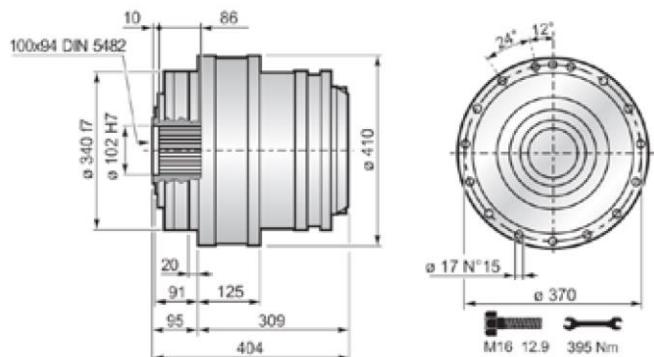
Dimensional drawings



The data specified into this catalogue are for product description purpose only and must not be interpreted as warranted characteristic in legal sense. Intermot reserves the right to implement modification without notice. 40

PR 3500

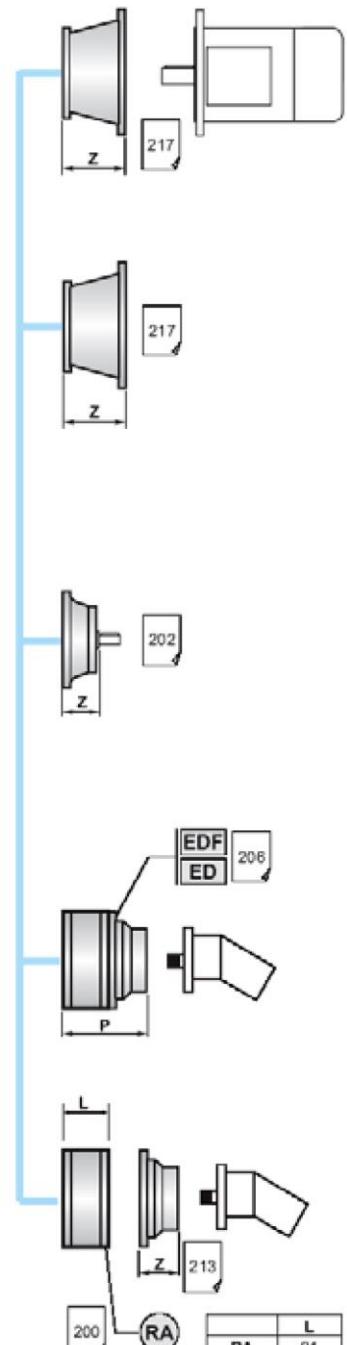
Special versions



F2

	VERSIONE USCITA – OUTPUT TYPE				ENTRATA TIPO INPUT TYPE
	F – F2	MC – MS	CPC	FS	
PR 3501	A 227	A 232	A 435	A 227	D
PR 3502	A 314	A 319	A 522	A 314	B
PR 3503	A 386	A 391	A 593	A 386	A
PR 3504	A 447	A 452	A 654	A 447	A

	VERSIONE USCITA – OUTPUT TYPE				ENTRATA TIPO INPUT TYPE
	F – F2	MC – MS	CPC	FS	
PRA 3502	A 287 , B 315	A 297 , B 315	A 500 , B 315	A 287 , B 315	B
PRA 3503	A 444 , B 240	A 454 , B 240	A 657 , B 240	A 444 , B 240	A
PRA 3504	A 482 , B 240	A 492 , B 240	A 695 , B 240	A 482 , B 240	A



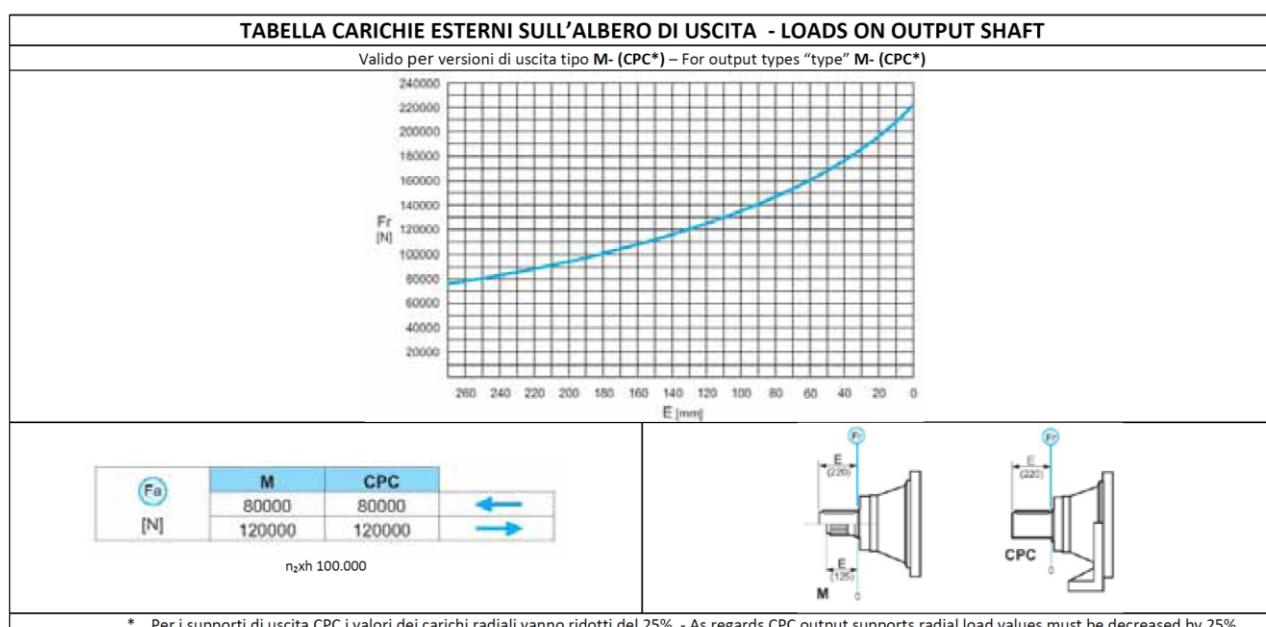
The data specified into this catalogue are for product description purpose only and must not be interpreted as warranted characteristic in legal sense. Intermot reserves the right to implement modification without notice.

PR 5000

Technical data

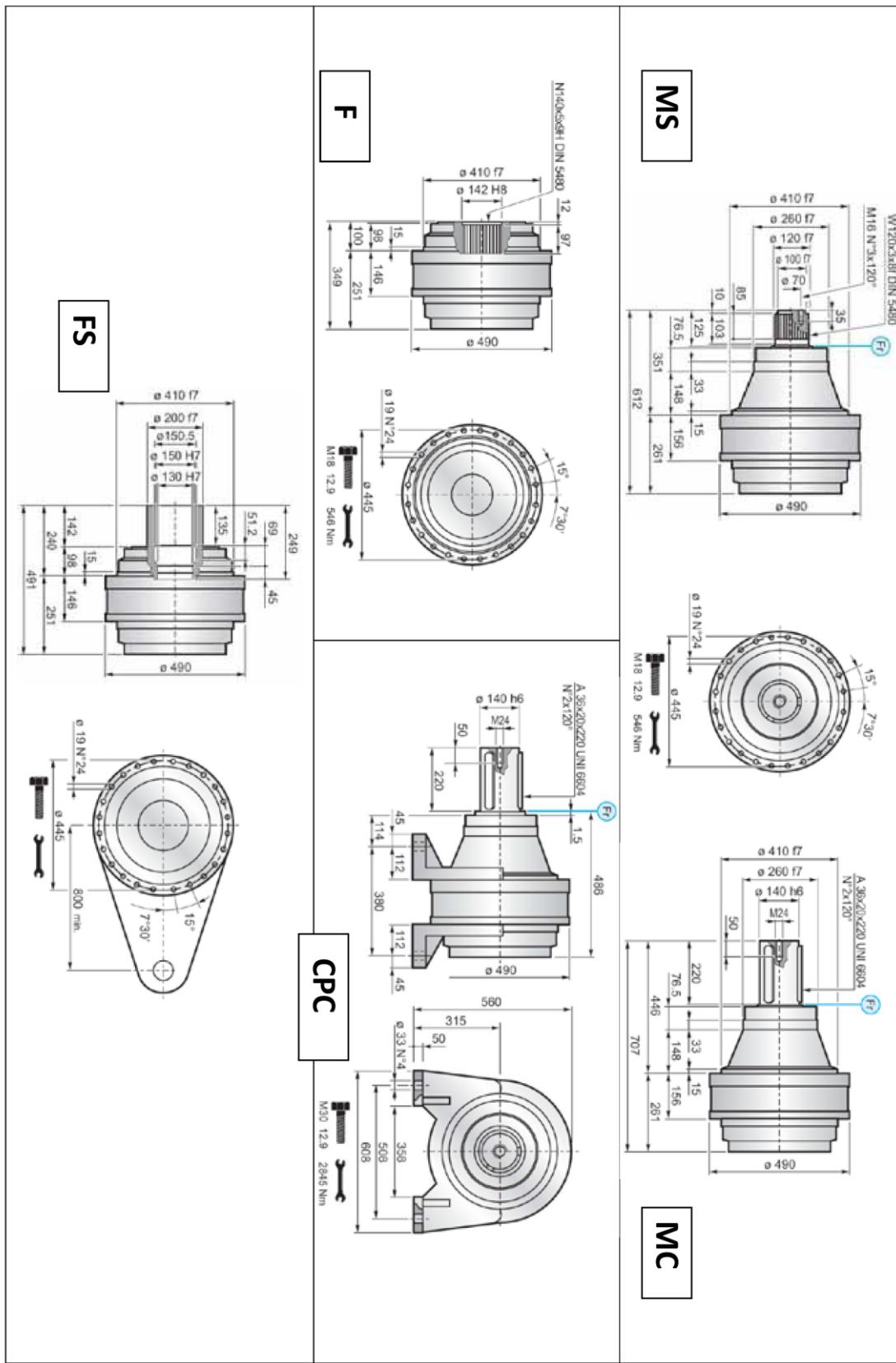
PR 5001			PR 5002			PR 5003			PR 5004			PRA 5002			PRA 5003			PRA 5004		
n ₁ max 1200 RPM			n ₁ max 2000 RPM			n ₁ max 2800 RPM			n ₁ max 2800 RPM			n ₁ max 2000 RPM			n ₁ max 2800 RPM			n ₁ max 2800 RPM		
Pt(kW) 60			Pt(kW) 38			Pt(kW) 25			Pt(kW) 20			Pt(kW) 38			Pt(kW) 25			Pt(kW) 20		
i	Mc daNm	Mmax daNm																		
4.00	6080	12160	14.0	6080	12160	53.1	6080	12160	324.7	6080	12160	12.1	6080	12160	58.5	6080	12160	241.5	6080	12160
5.10	4450	8900	16.9	6080	12160	64.0	6080	12160	358.5	6080	12160	15.5	4450	8900	76.5	6080	12160	288.9	6080	12160
6.00	3550	7100	21.6	4450	8900	74.2	4450	8900	391.4	6080	12160	18.4	3550	7100	97.9	4450	8900	315.7	6080	12160
			26.9	6080	12160	84.3	6080	12160	432.1	6080	12160	23.6	4450	8900	118.1	4450	8900	351.2	6080	12160
			28.3	4450	8900	92.9	4450	8900	471.8	6080	12160	27.9	3550	7100	139.9	3550	7100	395.2	6080	12160
			33.6	3550	7100	107.9	4450	8900	511.5	6080	12160				154.3	4450	8900	455.4	6080	12160
			40.5	3550	7100	116.9	4450	8900	564.6	6080	12160				220.4	3550	7100	506.3	4450	8900
						130.1	4450	8900	591.0	6080	12160							543.3	4450	8900
						138.6	3550	7100	616.6	6080	12160							587.6	4450	8900
						157.2	4450	8900	686.3	6080	12160							668.9	4450	8900
						170.1	4450	8900	789.3	4450	8900							708.7	4450	8900
						205.5	4450	8900	878.7	4450	8900							797.4	4450	8900
						247.7	4450	8900	952.5	4450	8900							856.3	4450	8900
						293.6	3550	7100	1061.7	4450	8900							926.0	4450	8900
									1151.0	4450	8900							961.2	4450	8900
									1258.3	3550	7100							1119.0	4450	8900
									1387.3	4450	8900							1348.8	4450	8900
									1672.2	4450	8900							1598.6	3550	7100
									1981.9	3550	7100									

MODELLO - MODEL			PR 5001			PR 5002			PR 5003			PR 5004			PRA 5002			PRA 5003			PRA 5004		
TIPO USCITA - OUTPUT TYPE	M	F	P	M	F	P	M	F	P	M	F	P	M	F	P	M	F	P	M	F	P		
PESO - WEIGHT	Kg.	314	256	-	373	315	-	389	331	-	397	339	-	364	306	-	410	293	-	429	371	-	
Olio - Oil Lt.	Orizzontale - Horizontal	5.2	4.5	-	6.5	5.8	-	7.1	6.4	-	7.5	6.9	-	11.0	10.3	-	8.5	7.8	-	9.1	8.4	-	
	Verticale - Vertical	10.4	9.0	-	13.0	11.6	-	14.2	12.8	-	15.0	13.8	-	20.0	18.6	-	15.0	13.6	-	16.2	14.8	-	



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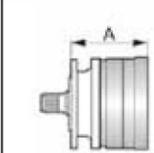
PR 5000



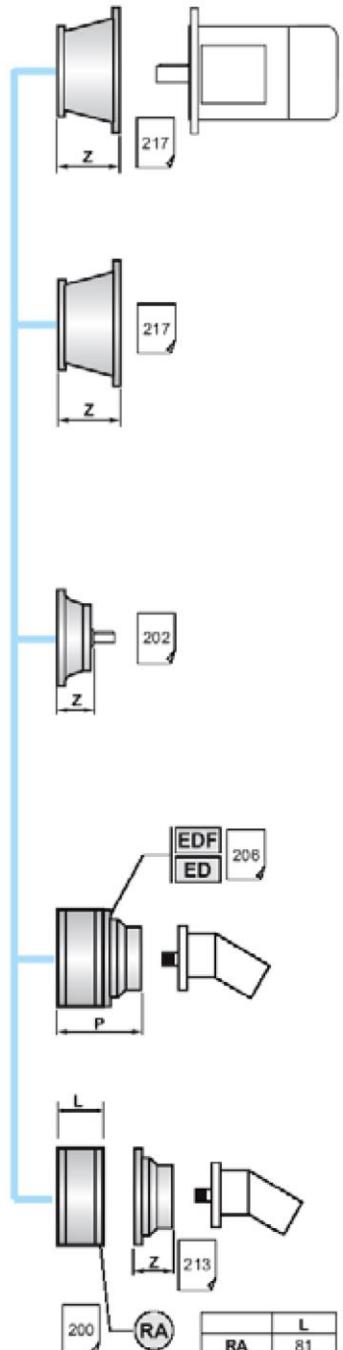
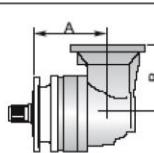
The data specified into this catalogue are for product description purpose only and must not be interpreted as warranted characteristic in legal sense. Intermot reserves the right to implement modification without notice. 43

PR 5000

Special versions



VERSIONE USCITA – OUTPUT TYPE					ENTRATA TIPO INPUT TYPE
F	MC – MS	CPC	FS		
PR 5001	A 251	A 261	A 486	A 251	D
PR 5002	A 358	A 368	A 593	A 358	B
PR 5003	A 430	A 440	A 665	A 430	A
PR 5004	A 491	A 501	A 726	A 491	A

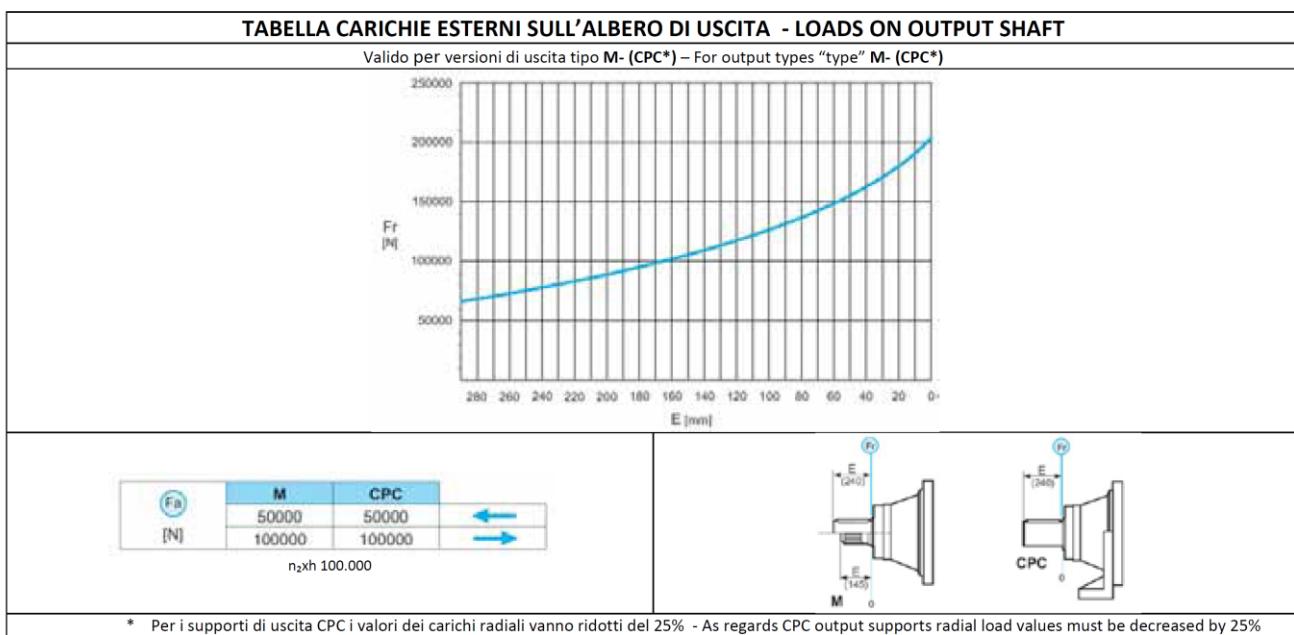



VERSIONE USCITA – OUTPUT TYPE					ENTRATA TIPO INPUT TYPE
F	MC – MS	CPC	FS		
PRA 5002	A 432 , B 315	A 442 , B 315	A 667 , B 315	A 432 , B 315	B
PRA 5003	A 446 , B 240	A 456 , B 240	A 681 , B 240	A 446 , B 240	A
PRA 5004	A 531 , B 240	A 541 , B 240	A 766 , B 240	A 531 , B 240	A

PR 6500

Technical data

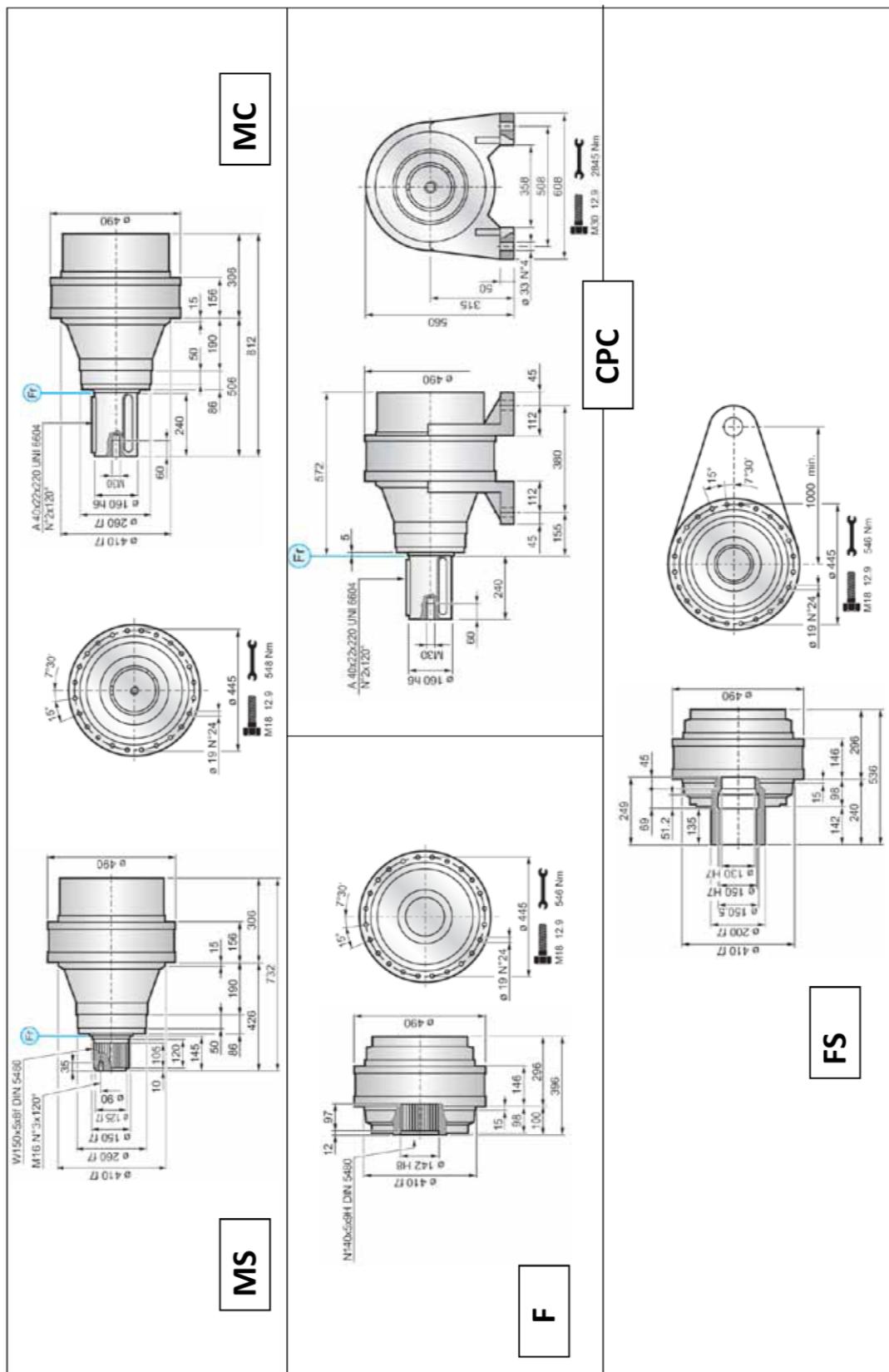
MODELLO - MODEL			PR 6501			PR 6502			PR 6503			PR 6504			PRA 6503			PRA 6504		
TIPO USCITA - OUTPUT TYPE			M	F	P	M	F	P	M	F	P	M	F	P	M	F	P	M	F	P
PESO - WEIGHT	Kg.	334	276	-	450	392	-	477	419	-	489	431	-	514	456	-	514	456	-	
Olio - Oil Lt.	Orizzontale - Horizontal	7.2	6.2	-	8.5	7.5	-	9.7	8.7	-	10.1	9.1	-	14.2	13.2	-	11.7	10.7	-	
	Verticale - Vertical	14.4	12.4	-	17.0	15.0	-	19.4	17.4	-	20.2	18.2	-	28.4	26.4	-	23.4	21.4	-	



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PR 6500

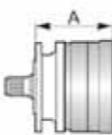
Dimensional drawings



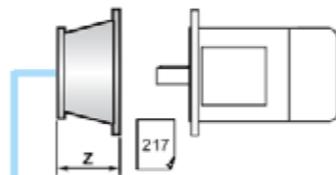
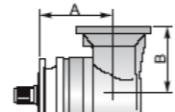
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PR 6500

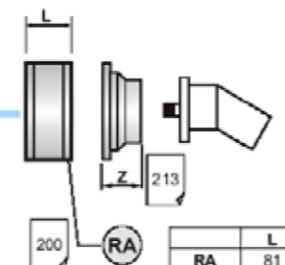
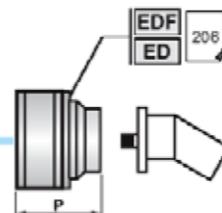
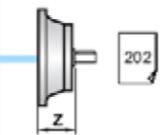
Special versions



	VERSIONE USCITA – OUTPUT TYPE				ENTRATA TIPO INPUT TYPE
	F	MC – MS	CPC	FS	
PR 6501	A 296	A 306	A 572	A 296	-
PR 6502	A 478	A 488	A 754	A 478	C
PR 6503	A 572	A 582	A 848	A 572	B
PR 6504	A 632	A 642	A 908	A 632	A

	VERSIONE USCITA – OUTPUT TYPE				ENTRATA TIPO INPUT TYPE
	F	MC – MS	CPC	FS	
PRA 6503	A 558 , B 315	A 568 , B 315	A 834 , B 315	A 558 , B 315	B
PRA 6504	A 660 , B 240	A 670 , B 240	A 936 , B 240	A 660 , B 240	A

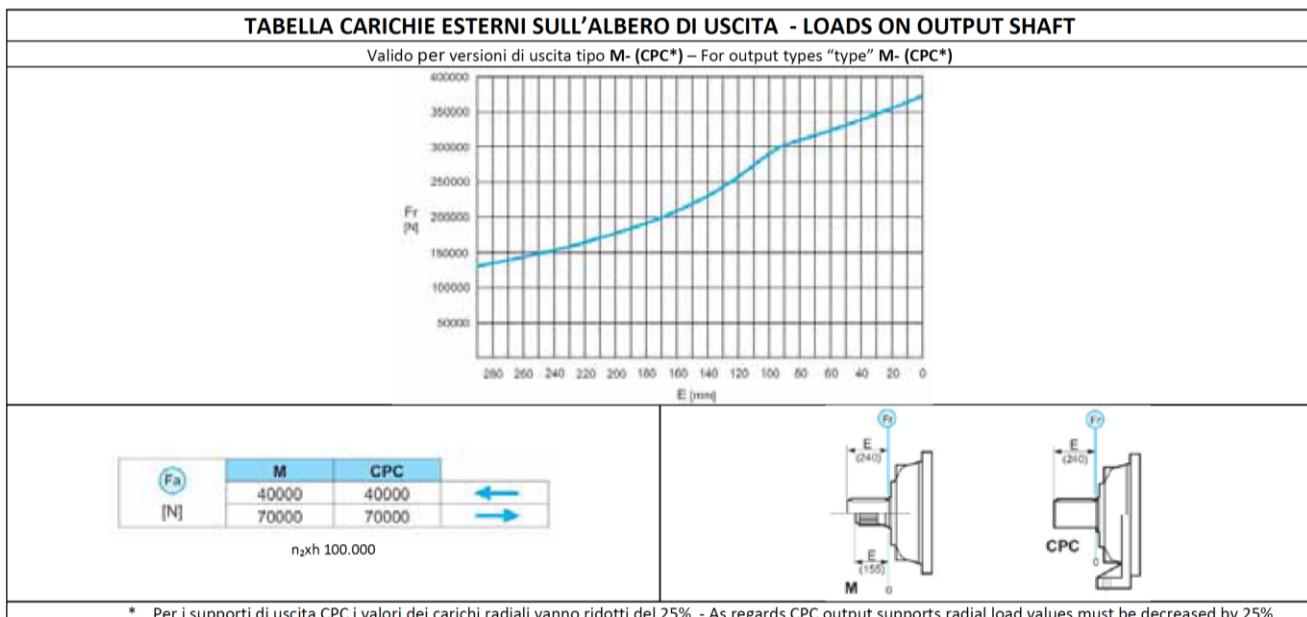


PR 9000

Technical data

PR 9001			PR 9002			PR 9003			PR 9004			PRA 9003			PRA 9004		
n ₁ max 750 RPM			n ₁ max 1500 RPM			n ₁ max 2500 RPM			n ₁ max 2800 RPM			n ₁ max 2500 RPM			n ₁ max 2800 RPM		
Pt(kW) 80			Pt(kW) 65			Pt(kW) 45			Pt(kW) 30			Pt(kW) 45			Pt(kW) 30		
i	Mc daNm	Mmax daNm	i	Mc daNm	Mmax daNm	i	Mc daNm	Mmax daNm	i	Mc daNm	Mmax daNm	i	Mc daNm	Mmax daNm	i	Mc daNm	Mmax daNm
4.00	9900	19800	16.1	9900	19800	59.3	9900	19800	224.0	9900	19800	49.6	9900	19800	247.4	9900	19800
5.10	7900	15800	20.4	7900	15800	71.6	9900	19800	244.6	9900	19800	64.5	9900	19800	266.3	9900	19800
			21.0	9900	19800	80.8	9900	19800	270.5	9900	19800	81.7	7900	15800	322.8	9900	19800
			26.6	7900	15800	93.1	9900	19800	306.3	9900	19800	95.5	7900	15800	389.9	9900	19800
			31.9	7900	15800	105.1	9900	19800	355.8	9900	19800	124.1	7900	15800	419.7	9900	19800
						117.8	7900	15800	398.3	9900	19800	149.2	7900	15800	459.6	7900	15800
						121.9	9900	19800	429.7	9900	19800				506.9	9900	19800
						133.0	7900	15800	462.5	9900	19800				572.3	9900	19800
						154.3	7900	15800	504.1	7900	15800				638.4	7900	15800
						185.5	7900	15800	543.9	7900	15800				663.9	9900	19800
									585.4	7900	15800				724.4	7900	
									630.7	9900	19800				771.1	7900	
									687.4	7900	15800				840.3	7900	
									742.0	7900	15800				1010.0	7900	
									798.3	7900	15800						
									854.4	7900	15800						
									926.0	7900	15800						
									1119.0	7900	15800						
									1344.9	7900	15800						
									1623.2	7900							

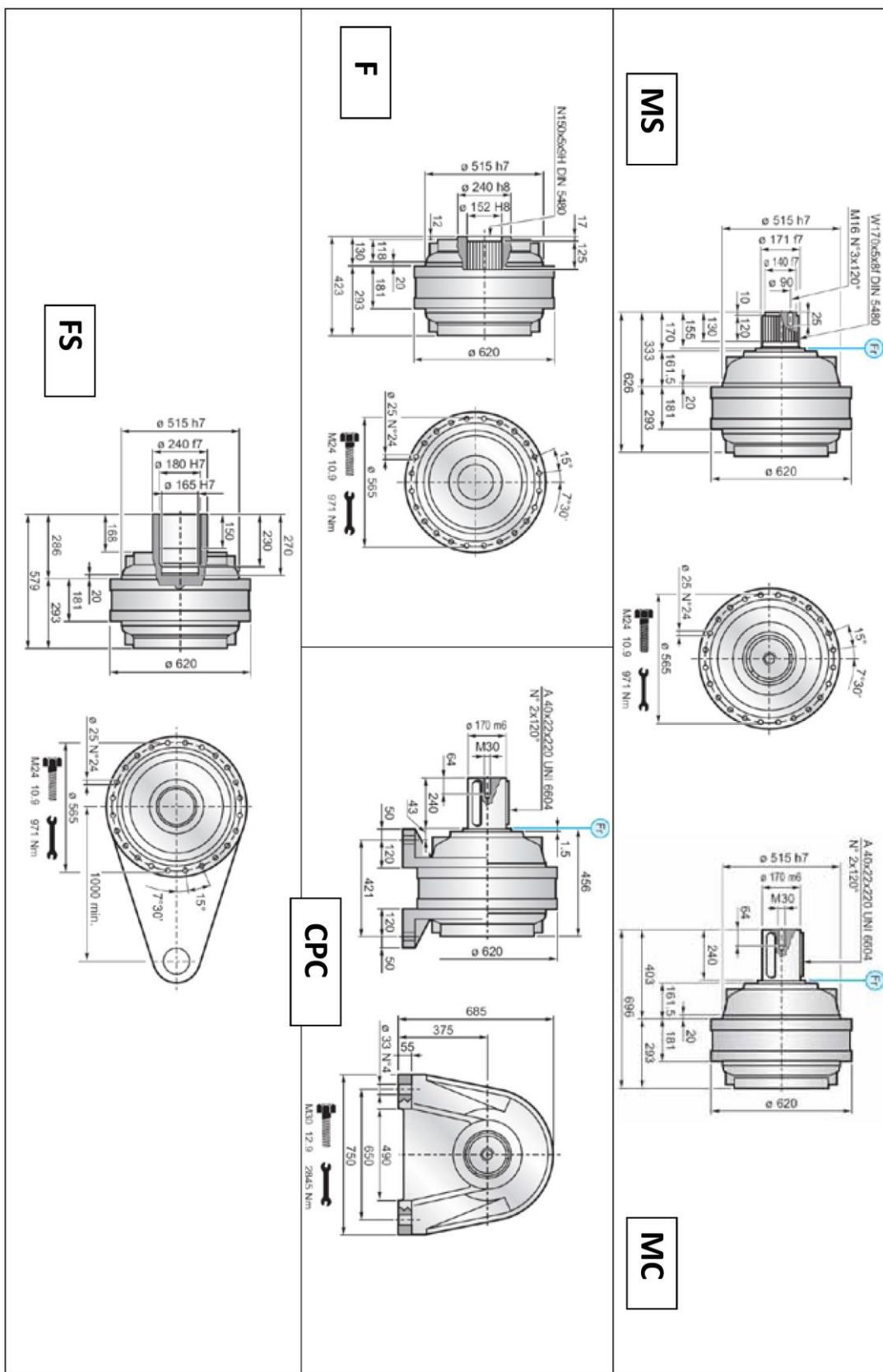
MODELLO - MODEL			PR 9001			PR 9002			PR 9003			PR 9004			PRA 9003			PRA 9004		
TIPO USCITA - OUTPUT TYPE			M	F	P	M	F	P	M	F	P	M	F	P	M	F	P	M	F	P
PESO - WEIGHT	Kg.	519	423	-	635	539	-	662	566	-	673	577	-	699	603	-	699	603	-	
Olio - Oil Lt.	Orizzontale - Horizontal	8.7	7.5	-	10.0	8.8	-	11.2	10.0	-	11.6	10.4	-	15.7	14.5	-	13.2	12.0	-	
	Verticale - Vertical	17.4	15.0	-	20.0	17.5	-	22.4	20.0	-	23.2	20.8	-	29.4	27.0	-	24.4	22.0	-	



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PR 9000

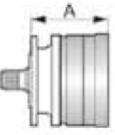
Dimensional drawings



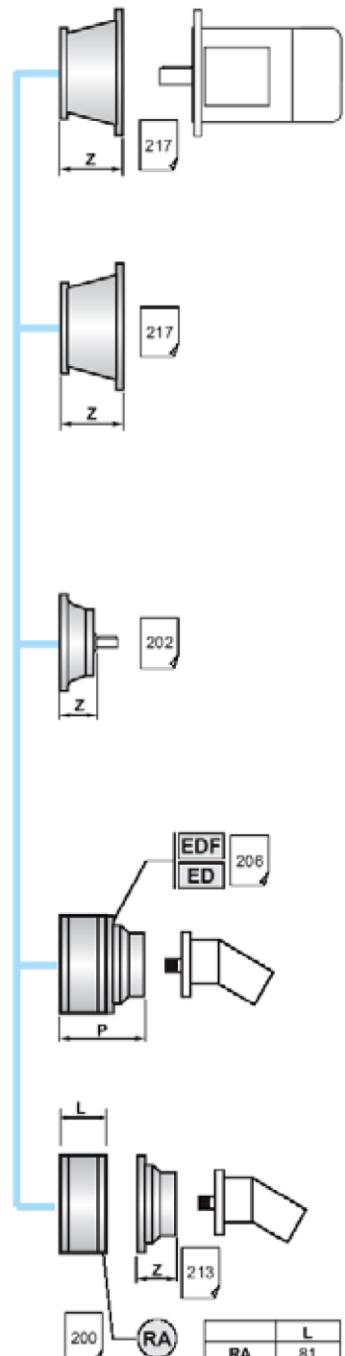
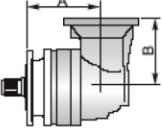
The data specified into this catalogue are for product description purpose only and must not be interpreted as warranted characteristic in legal sense. Intermot reserves the right to implement modification without notice. **49**

PR 9000

Special versions

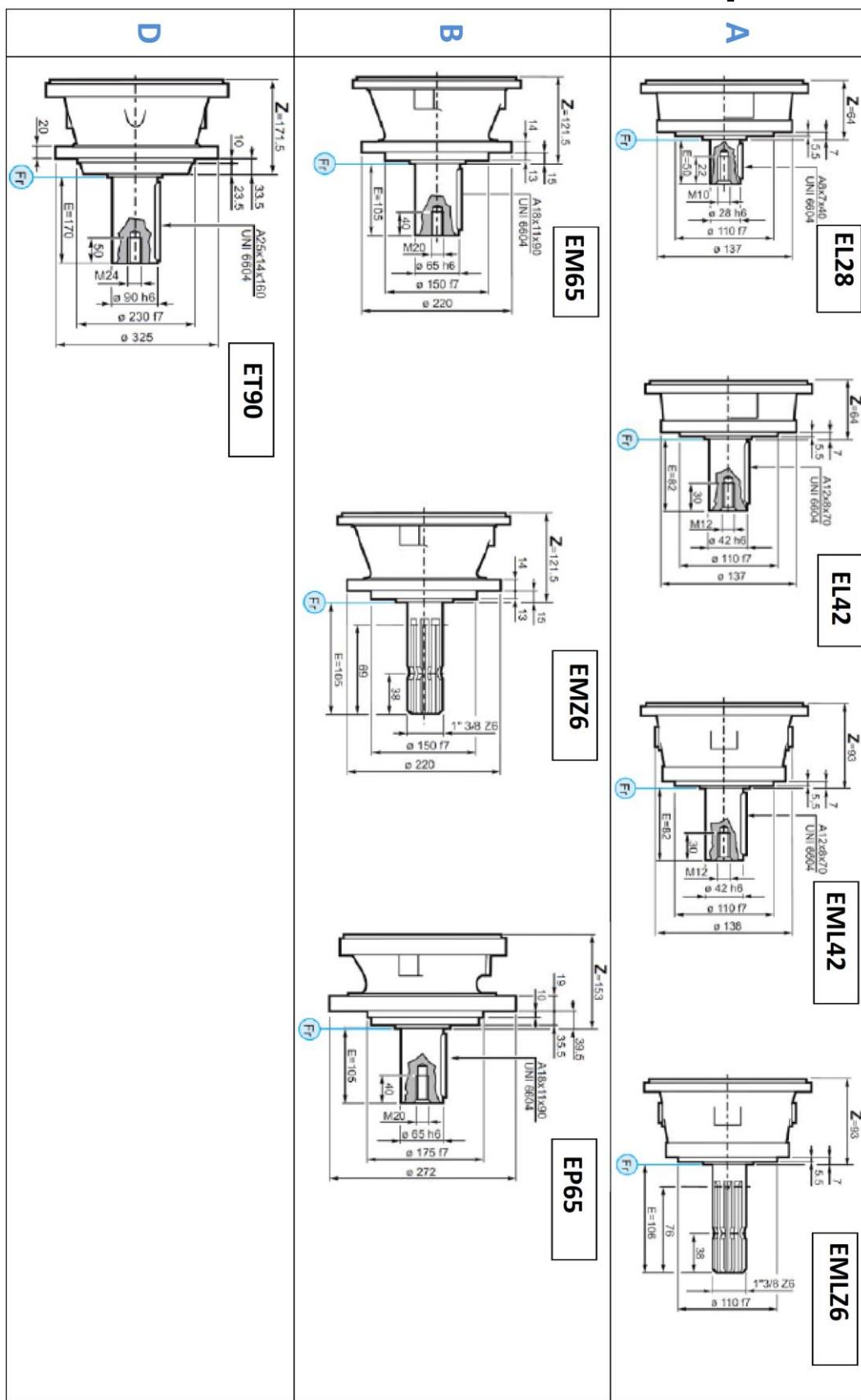


	VERSIONE USCITA – OUTPUT TYPE				ENTRATA TIPO INPUT TYPE
	F	MC – MS	CPC	FS	
PR 9001	A 293	A 293	A 456	A 293	-
PR 9002	A 475	A 475	A 638	A 475	C
PR 9003	A 569	A 569	A 732	A 569	B
PR 9004	A 629	A 629	A 792	A 629	A

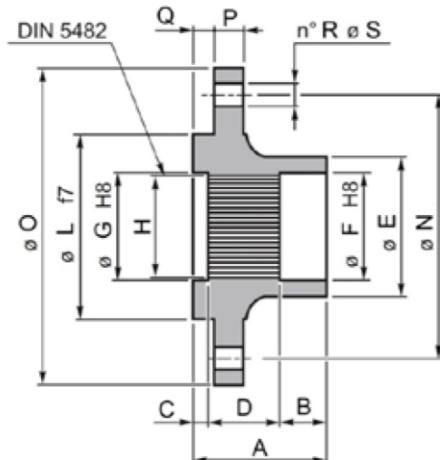
	VERSIONE USCITA – OUTPUT TYPE				ENTRATA TIPO INPUT TYPE
	F	MC – MS	CPC	FS	
PRA 9003	A 555 , B 315	A 555 , B 315	A 718 , B 315	A 555 , B 315	B
PRA 9004	A 657 , B 240	A 657 , B 240	A 820 , B 240	A 657 , B 240	A

Input shafts



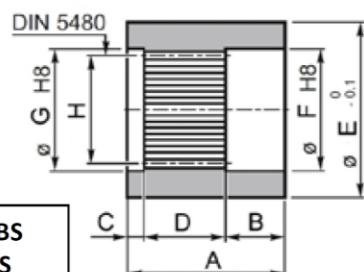
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Output accessories



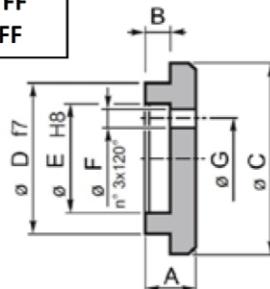
**Flangia FL
Flange FL**

TIPO TYPE	A	B	C	D	E	F	G	H	L	N	O	P	Q	R	S
FL100-160	55	20,5	6	28,5	60	42	42	40X36	60	125	145	10	7	6	10,5
FL250-500M	68	22,5	8,5	37	78	60	60	58X53	95	145	168	15	10	12	12,5
FL250-500P	80	22,5	8,5	49	78	60	60	58X53	95	145	168	15	12	12	12,5
FL700	90	31	10,5	48,5	105	72	72	70X64	125	175	210	20	15	12	14,5
FL1000-1600	90	31	10,5	48,5	105	85	80	80X74	125	175	210	20	15	12	19
FL1600P-2500	110	33	12	65	140	105	105	100X94	170	212	254	23	20	12	21
FL5000	125	30	10	85	157	120	125	DIN 5480 20X3X9H	220	320	385	30	25	12	25
FL6500	145	30	10	105	197	150	150	DIN 5480 50X5X9H	250	350	415	30	25	12	32
FL9000	170	42	10	118	227	171	171	DIN 5480 70X5X9H	250	350	415	40	25	12	32



**Boccola Scanalata BS
Splined Bushing BS**

**Fondello di Arresto FF
Stop Bottom Plate FF**

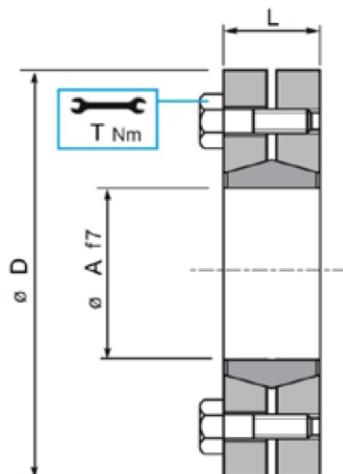


TIPO TYPE	A	B	C	D	E	F	G	H
BS100-160	55	20,5	6	28,5	60	42	42	40X36
BS250-500M	68	22,5	8,5	37	78	60	60	58X53
BS250-500P	80	22,5	8,5	49	78	60	60	58X53
BS700	90	31	10,5	48,5	95	72	72	70X64
BS1000-1600	90	31	10,5	48,5	108	85	80	80X74
BS1600P-2500	110	33	12	65	135	105	105	100X94
BS5000	125	30	10	85	160	120	125	DIN 5480 120X3X9H
BS6500	145	30	10	105	210	150	150	DIN 5480 150X5X9H
BS9000	170	42	15	113	250	171	171	DIN 5480 170X5X9H

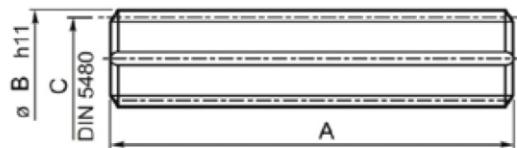
TIPO TYPE	A	B	C	D	E	F	G	FORO HOLE
FF100-160	9,5	4,5	50	42	35	n° 3 07	24	A
FF250-500M	13	7,5	70	60	50	n° 3 11	32	A
FF700	18	9,5	82	72	62	n° 3 11	40	A
FF1000-1600	18	9,5	92	80	70	n° 3 11	45	B
FF1600P-2500	20	11,5	125	105	85	n° 3 15	52	B
FF5000	25	9,5	148	125	100	n° 3 17	70	B
FF6500	25	9,5	175	150	125	n° 3 17	90	B
FF9000	22	9,5	190	171	140	n° 3 17	90	b

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Giunto di Attrito GA
Shrink Disc GA



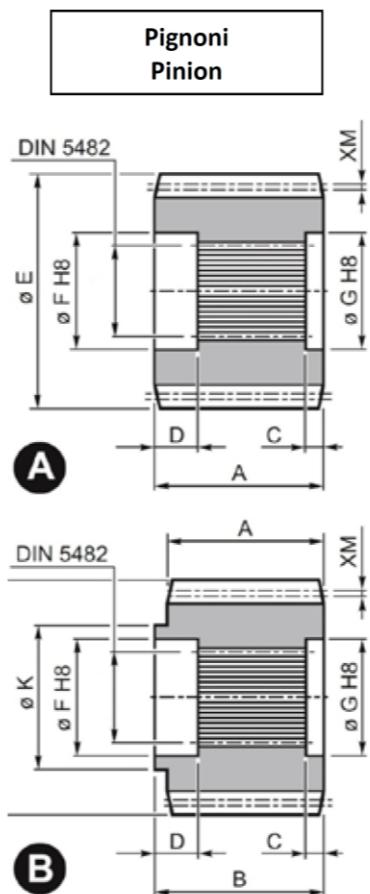
Barra Scanalata KB
Splined Rod KB



GRANDEZZA SIZE	DIMENSIONI - DIMENSIONS				daNm	T [Nm]
	d f7	D	L	dw h6		
PG100	62	110	30,5	50	220	12
PG160	62	110	30,5	50	220	12
PG250	100	170	44	75	750	30
PG500	100	170	44	75	750	30
PG700	125	215	54	90	1300	59
PG1000	140	230	60,5	100	1760	100
PG1600	165	290	71	120	3500	250
PG2500	185	330	86	135	5200	250
PG5000	200	350	112	150	9250	250
PG6500	200	350	112	150	9250	250
PG9000	240	405	144	180	17600	490

TIPO TYPE	A	B	C
KB100-160	280	39,5	40X36
KB250-500	320	57,5	58X53
KB700	290	69,3	70X64
KB1000-1600	320	79,3	80X74
KB2500	320	99,3	100X94
KB5000	320	139	140X5X8f (DIN 5480)

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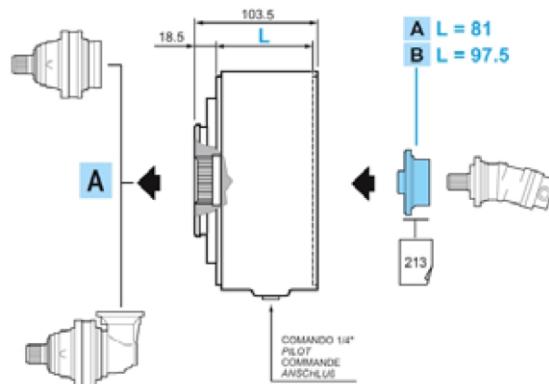


TAGLIA SIZE	M	Z	XM	MATERIALE MATERIAL	FIG.	A	B	C	D	E	F	G	K
100-160	5	16	2,5	38NiCrMo4	A	55	-	6	25,5	95	42	42	-
100-160	8	16	4	38NiCrMo4	A	55	-	6	20,5	152	42	42	-
250-500 M	5	20	0	38NiCrMo4	A	80	-	8,5	22,5	110	60	60	-
250-500 M	8	11	5	38NiCrMo4	A	68	-	8,5	22,5	110,8	60	60	-
250-500 M	8	12	0	38NiCrMo4	A	68	-	8	21	112,8	60	60	-
250-500 M	8	14	4	16CrNi4	A	68	-	15,5	22,5	131,2	60	60	-
250-500 M	8	14	4	16CrNi4	B	60	68	8,5	22,5	131,2	60	60	80
250-500 M	8	15	0	38NiCrMo4	A	68	-	8,5	22,5	136	60	60	-
250-500 P	6	14	3	38NiCrMo4	A	95	-	23	21	99,6	60	60	-
250-500 P	8	12	2,35	38NiCrMo4	A	80	-	8,5	22,5	116,7	60	60	-
250-500 P	8	13	0	18NiCrMo5	A	80	-	8	21	120	60	60	-
PG 700	8	21	0	38NiCrMo4	A	90	-	10	30	184	72	72	-
PG 700	10	11	8,06	18NiCrMo5	A	90	-	10	31	142,1	72	72	-
PG 700	10	11	8,06	18NiCrMo5	B	90	99	18,5	31	142,1	72	72	84
PG 700	10	12	0	38NiCrMo4	A	90	-	10	31	140	72	72	-
PG 700	10	13	0	38NiCrMo4	A	90	-	10	30	155	72	72	-
PG 700	12	12	3,96	18NiCrMo5	B	90	105	25,5	31	176	72	84	95
PG 1000 M	10	12	0	38NiCrMo4	A	90	-	10	31	140	85	80	-
PG 1000 M	10	14	0	38NiCrMo4	A	90	-	10	31	160	85	80	-
PG 1000 M	10	15	5	38NiCrMo4	A	90	-	10	31	180	85	80	-
PG 1000 M	10	18	5	42CrMo4	B	85	114	31	24	209,3	85	95	160
PG 1000 M	10	19	0	39NiCrMo3	A	10	0	31	20,5	210	85	95	-
PG 1000 M	12	14	3	38NiCrMo4	B	90	105	15	31	194,5	85	95	130
PG 1600 M	10	12	0	38NiCrMo4	A	90	-	10	31	140	85	80	-
PG 1600 M	10	14	0	38NiCrMo4	A	90	-	10	31	160	85	80	-
PG 1600 M	10	15	5	38NiCrMo4	A	90	-	10	31	180	85	80	-
PG 1600 M	10	18	5	42CrMo4	B	85	114	31	24	209,3	85	95	160
PG 1600 M	12	14	3	38NiCrMo4	B	90	105	15	31	194,5	85	95	130

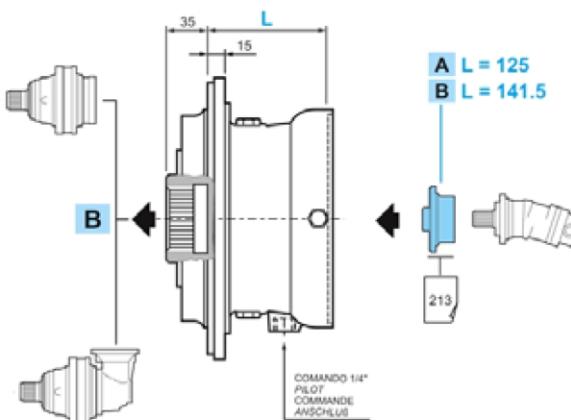
Modular brakes

I freni in dotazione ai riduttori sono di tipo idraulico, con dischi a bagno d'olio, adatti esclusivamente alla frenatura statica, ovvero di parcheggio. I freni hanno la lubrificazione separata da quella del riduttore epicicloidale. In fase di immissione del lubrificante bisognerà quindi provvedere anche al riempimento del freno, mediante un apposito foro adduzione olio posto sullo stesso. Il lubrificante consigliato è un ISO VG 32. Normalmente possono andar bene gli idraulici.

Planetary reduction units can be equipped with hydraulic brakes with oil-bath disks, expressly designed for static or parking braking. The lubrication for the brakes is separated from the lubrication of the planetary gear units. Thus, during the lubricant inlet phase, it is necessary to pour the fluid also into the brake through the proper hole mounted on its casing. We suggest to use lubricant ISO VG 32 (however, hydraulic lubricants can be used as well).

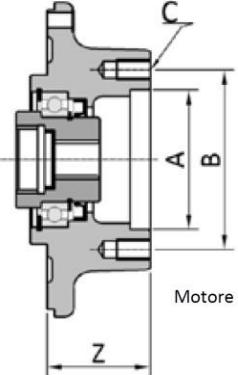
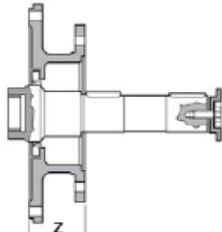
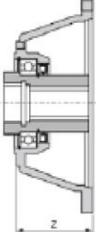


TIPO - TYPE	Cfs min [Nm]	Pa min [bar]	Codice - Code	P max [bar]	Oil [Lt]		Peso - Weight [Kg]
					V1	B5	
RA 10	90	15	4706.000.500				
RA 16	140	21	4706.001.500				
RA 25	220	17	4706.002.500				
RA 35	330	21	4706.003.500				
RA 45	430	28	4706.004.500				
RA 55	550	34	4706.006.500				

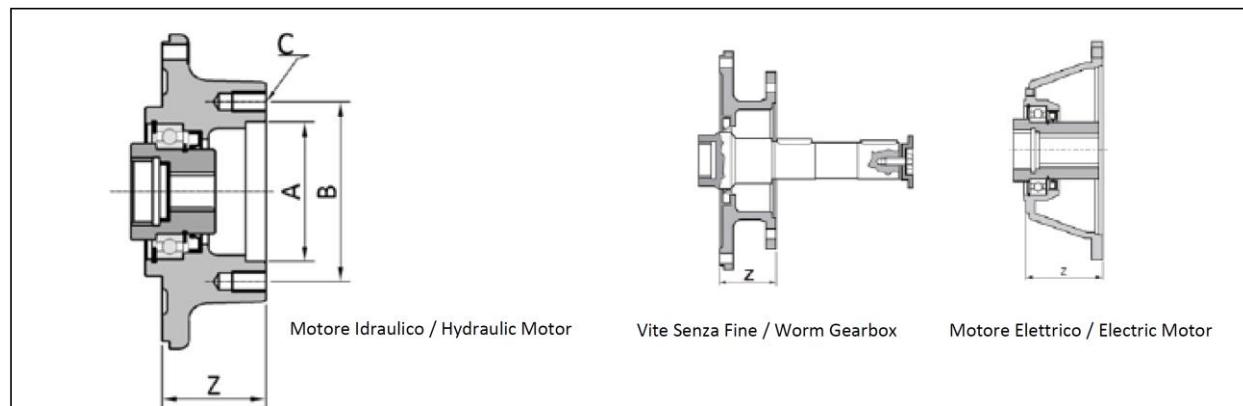


TIPO - TYPE	Cfs min [Nm]	Pa min [bar]	Codice - Code	P max [bar]	Oil [Lt]		Peso - Weight [Kg]
					V1	B5	
RB 25	250	20	4705.300.500				
RB 40	400	30	4705.301.500				
RB 63	650	45	4705.302.500				
RB 80	800	33	4705.303.500				
RB 100	1000	40	4705.304.500				
RB 125	1250	40	4705.305.500				
RB 160	1500	40	4705.306.500				
RB 180	1700	45	4705.307.500				

Motor adaptors

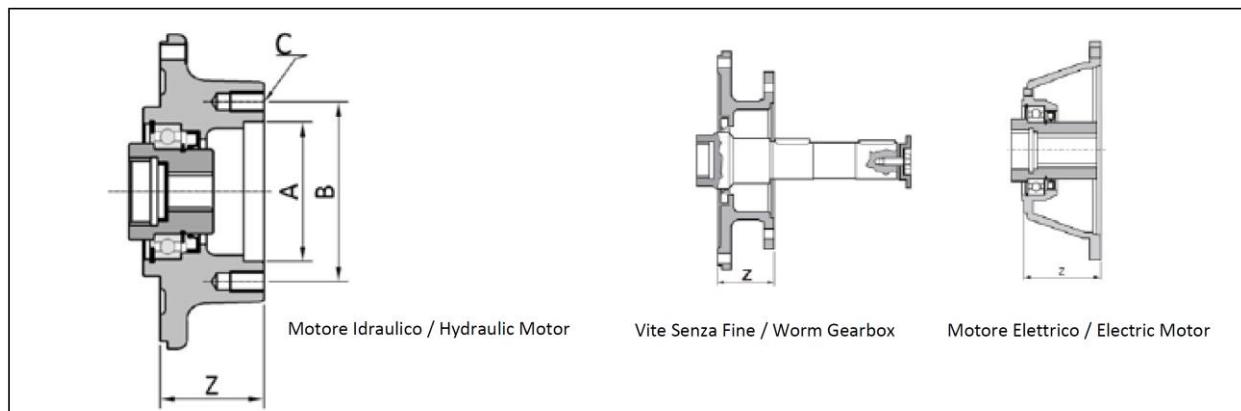
	Motore Idraulico / Hydraulic Motor		Vite Senza Fine / Worm Gearbox		Motore Elettrico / Electric Motor	
Tipo Motore / Motor Type	Codice / Code	Tipo Entrata	GIUNTO - COUPLING	C	A [mm] B [mm] Z	
MOTORI ELETTRICI ELETTRICI UNEL/IEC B5 - ELECTRIC MOTORS UNEL/IEC B5						
IEC 63	4702.011.005	A	Ø 11 ch 4	4 x M8	95 115 36	
IEC 71	4702.011.006	A	Ø 14 ch 5	4 x M8	110 130 36	
IEC 80	4702.011.001	A	Ø 19 ch 6	4 x M10	130 165 56	
IEC 90	4702.011.002	A	Ø 24 ch 8	4 x M10	130 165 56	
IEC 100/112	4702.011.003	A	Ø 28 ch 8	4 x M12	180 215 66	
IEC 132	4702.011.004	A	Ø 38 ch 10	4 x M12	230 265 100	
IEC 160	4702.011.047	A	Ø 42 ch 12	4 x M16	250 300 135	
IEC 180	4702.011.048	A	Ø 48 ch 14	4 x M16	250 300 135	
IEC 160	4702.051.001	B	Ø 42 ch 12	4 x M16	250 300 118	
IEC 180	4702.051.002	B	Ø 48 ch 14	4 x M16	250 300 118	
IEC 200	4702.051.015	B	Ø 55 ch 16	4 x M16	300 350 148	
IEC 225	4702.051.016	B	Ø 60 ch 18	8 x M16	350 400 139	
IEC 250	4702.051.024	B	Ø 65 ch 18	8 x M16	450 500	
IEC 280	4702.051.025	B	Ø 65 ch 18	8 x M16	450 500	
IEC 160	4702.071.001	C	Ø 42 ch 12	4 x M16	250 300 150	
IEC 180	4702.071.002	C	Ø 48 ch 14	4 x M16	250 300 150	
IEC 200	4702.071.003	C	Ø 55 ch 16	4 x M16	300 350 150	
IEC 225	4702.071.004	C	Ø 60 ch 18	8 x M16	350 400 139	
IEC 250	4702.071.005	C	Ø 65 ch 18	8 x M16	450 500 139	
IEC 280	4702.071.006	C	Ø 65 ch 18	8 x M16	450 500 139	
IEC 160	4702.081.001	D	Ø 42 ch 12	4 x M16	250 300 150	
IEC 180	4702.081.002	D	Ø 48 ch 14	4 x M16	250 300 150	
IEC 200	4702.081.003	D	Ø 55 ch 16	4 x M16	300 350 150	
IEC 225	4702.081.004	D	Ø 60 ch 18	8 x M16	350 400 139	
IEC 250	4702.081.005	D	Ø 65 ch 18	8 x M16	450 500 139	
IEC 280	4702.081.006	D	Ø 65 ch 18	8 x M16	450 500 139	
MOTORI ELETTRICI ELETTRICI NEMA C - ELECTRIC MOTORS NEMA C						
286TC - 284TC	4702.051.006	B	Ø 1" 7/8 ch.1/2x1/2	N° 4 Ø 13,5	10" 1/2 9"	139
365TS	4702.051.010	B	Ø 1" 7/8 ch.1/2x1/2	N° 8 Ø 17	12" 1/2 11"	149
326T	4702.051.007	B	Ø 2" 2/16 ch. 1/2x1/2	N° 8 Ø 17	12" 1/2 11"	149
56 - 56H	4702.011.007	A	Ø 5/8" ch.3/16X3X16	N° 4 Ø 10	4" 1/2 5" 7/8	80
143TC - 145TC - 182 - 184C	4702.011.008	A	Ø 7/8" ch.3/16X3X16	N° 4 Ø 10	4" 1/2 5" 7/8	80
182TC - 184TC - 213 - 215C	4702.011.009	A	Ø1" 1/8 ch.1/4X1/4	N° 4 Ø 13,5	8" 1/2 7" 1/4	89
213C - 215TC	4702.011.010	A	Ø1" 3/8 ch 5/16X5/16	N° 4 Ø 13,5	8" 1/2 7" 1/4	89
DINAMIC OIL						
AH100 - BH150 - BH175 - BH200	4702.013.024	A	28x34 UNI 221	5 x M10	175 210	56
CH250 - DH300 - DH350	4702.053.003	B	32x38 UNI 221	5 x M12	195 265	138
PH800 - PH1250 - MH 1000	4702.053.020	C	46x50 UNI 220	5 x M16	256 300	118
PH800 - PH1250 - MH 1000	4702.073.001	C	46x50 UNI 220	5 x M16	256 300	148
PH800 - PH1250 - MH 1000	4702.083.001	D	46x50 UNI 220	5 x M16	256 300	148

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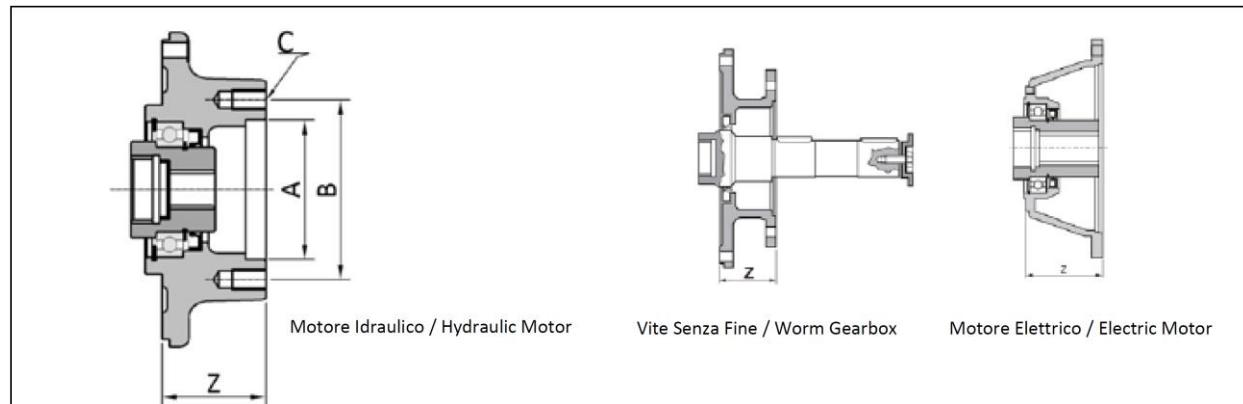
Tipo Motore / Motor Type	Codice / Code	Tipo Entrata	GIUNTO - COUPLING	C	A [mm]	B [mm]	Z
CALZONI							
MR 190	4702.013.036	A	32x38 UNI 221	7 x M10	160	225	
MR 300	4702.053.002	B	42x48 UNI 222	7 x M10	175	232	
SAUER DANFOSS (orbit)							
OMM	4702.012.035	A	Ø 16 ch 5	3 x M6	31,5	45	
OMP - OMR	4702.012.012	A	Ø 25 ch 8	2 x M12	82,55	106,4	
OMP - OMR	4702.013.013	A	SAE 6 B	2 x M12	82,55	106,4	
OMP - OMR	4702.012.014	A	Ø 25,4 ch 6,35	2 x M12	82,55	106,4	
OMS	4702.012.019	A	Ø 32 ch 10	4 x M12	82,55	106,4	
OMS	4702.013.039	A	12/24 DP Z=14	4 x M12	82,55	106,4	
OMSS	4702.013.006	A	12/24 DP Z=12	4 x M10	100	125	
OMT	4702.052.002	B	Ø 40 ch 12	4 x M12	125	160	
OMT	4702.012.031	A	Ø 40 ch 12	4 x M12	125	160	
OMTS	4702.013.032	A	12/24 DP Z=16	4 x M12	125	160	
OMV	4702.052.003	B	Ø 50 ch 14	4 x M16	160	200	
OMVS	4702.053.029	B	10/20 DP Z=16	4 x M12	140	180	
DENISON HYDRAULICS							
M4E - M3D - M1D	4702.013.015	A	12/24 DP Z=14	2 x M16 - 4 x M14	127	181 - 162	
M4C - M4SC- M1C	4702.013.001	A	16/32 DP Z=13	2 x M12	101,6	146	
M3B - M3B1 - TM3B	4702.013.010	A	16/32 DP Z=9	2 x M12	82,55	106,4	
M4C - M4SC	4702.012.003	A	Ø 22,22 ch 6,35	2 x M12	101,6	146	
AXIAL PUMP (COMER INDUSTRIES)							
M2-AMVCS 30,40,50,55	4702.013.001	A	16/32 DP Z=13	2 x M12	101,6	146	
M2-AMVCS 30,40,50,55	4702.013.003	A	16/32 DP Z=15	2 x M12	101,6	146	
M2-AMVCS 30,40,50,55	4702.012.002	A	Ø 22,22 ch 6,35	2 x M12	101,6	146	
AMF 24,34,55	4702.013.070	A	25x22 DIN 5482	4 x M10	100	160	
EATON CHAR-LYNN							
Serie 2000	4702.013.038	A	12/24 DP Z=14	2 x M12	82,55	106,4	
Serie 2000	4702.012.019	A	Ø 32 ch 10	4 x M12	82,55	106,4	
Serie 2000	4702.012.018	A	Ø 32 ch 10	2 x M12	82,55	106,4	
Serie 2000	4702.012.017	A	Ø 31,75 ch 7,96	2 x M12	82,55	106,4	
Bearingless 2000	4702.013.033	A	12/24 DP Z=12	4 x M12	101,6	127	
Serie 4000	4702.013.016	A	12/24 DP Z=17	4 x M14	127	162	
Serie 4000	4702.012.020	A	Ø 31,75 ch 7,96	4 x M14	127	162	
Bearingless 4000	4702.013.045	A	10/20 DP Z=12	4 x M14	127	162	
Serie 4000-6000	4702.012.027	A	Ø 40 ch 12	4 x M14	127	162	
MF-MV 25	4702.013.001	A	16/32 DP Z=13	2 x M12	101,6	146	
MF-MV 25	4702.013.003	A	16/32 DP Z=15	2 x M12	101,6	146	
MF-MV 25	4702.012.001	A	Ø 22,22 ch 6,35	2 x M12	101,6	146	
MF-MV 33-39-46-54	4702.013.015	A	12/24 DP Z=14	4 x M14	127	162	
MF-MV 33-39-46-54	4702.013.017	A	16/32 DP Z=21	4 x M14	127	162	
MF-MV 54	4702.013.018	A	16/32 DP Z=23	4 x M14	127	162	
Serie J	4702.012.035	A	Ø 16 ch,5	5 x Ø 6,5	31,5	45	
Orbitali A-H-S	4702.012.012	A	Ø 25 ch 8	2 x M12	82,55	106,4	
Orbitali A-H-S	4702.012.014	A	Ø 25,4 ch 6,35	2 x M12	82,55	106,4	
Orbitali A-H-S	4702.013.013	A	SAE 6 B	2 x M12	82,55	106,4	

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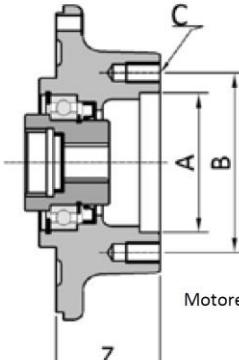
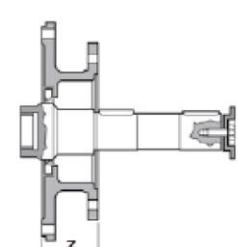
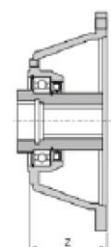
Tipo Motore / Motor Type	Codice / Code	Tipo Entrata	GIUNTO - COUPLING	C	A [mm]	B [mm]	z
GEOLINK (COMER INDUSTRIES)							
GFL - GFS - GKS	4702.013.013	A	SAE 6 B	2 x M12	82,55	106,4	
GFL - GFS - GKS	4702.013.011	A	25x22 DIN 5482	2 x M12	82,55	106,4	
GFL - GFS - GKS	4702.012.012	A	Ø 25 ch 8	2 x M12	82,55	106,4	
GFL - GFS - GKS	4702.012.013	A	Ø 25,4 ch 6,35	2 x M12	82,55	106,4	
GDS	4702.012.035	A	Ø 16 ch 5	5 X D.6,5	31,5	45	
GLC	4702.013.006	A	12/24 DP Z=12	4 x M10	100	125	
GLS	4702.012.019	A	Ø 32 ch 10	4 x M12	82,55	106,4	
H.M.T. - S.A.M. HYDRAULIC							
H1C30	4702.013.007	A	W25x1,25x18 DIN 5480	4 X M10 - 2 x M12	100	125	
H1C55 - H2V55	4702.013.019	A	W30x2x14 DIN 5480	4 x M12	125	160	
H1C75 - H2V75	4702.013.071	A	W35x2x16 DIN 5480	4 x M12	140	180	
H1C90 - H1C108 - H2V108	4702.013.065	A	N40x2x18 DIN 5480	4 x M16	160	200	
H1C90 - H1C108 - H2V108	4702.053.007	B	N40x2x18 DIN 5480	4 x M16	160	200	
H1C160	4702.053.009	B	W45x2x18 DIN 5480	4 x M16	180	224	
INTERMOT							
IAM H1 100-150-175-195	4702.013.052	A	26x32 UNI 221	5 x M10	172	190	
IAM H1 200 - 250 - 300	4702.053.016	B	32x38 UNI 221	5 x M12	190	210	
IAM H2 200 - 250 - 300 - 350	4702.053.016	B	32x38 UNI 221	5 x M12	190	210	
IAM H2 400 - 500 - 600	4702.053.017	B	36x42 UNI 221	5 x M14	230	254	
IAM H3 400 - 450 - 500 - 600 - 700 - 800	4702.053.017	B	36x42 UNI 221	5 x M14	230	254	
IAM H4 700 - 800 - 900 - 1000 - 1100 - 1200	4702.053.020	B	46x50 UNI 220	5 x M16	256	300	
IAM H5 1000-1200-1400-1800-2000-2200	4702.053.021	B	62x72 UNI 221	5 x M20	301,5	327	
LINDE							
MF63M	4702.013.015	A	12/24 DP Z=14	2 x M12	127	181	
MF43M	4702.013.003	A	16/32 DP Z=15	2 x M12	101,6	146	
BMF35	4702.013.070	A	25x22 DIN 5482	4 x M10	100	160	
BMF50	4702.013.060	A	30x27 DIN 5482	4 x M10	100	160	
BMF75	4702.013.061	A	W31x35 DIN 5482	4 x M12	115	180	
BMF105	4702.013.026	A	40x36 DIN 5482	4 x M16	125	200	
BMF186 Versione Americana	4702.053.022	B	8/16 DP Z=13	4 x M14	127	162	
OILDRIVE (DINAMICOIL)							
MGL-MGT-MGLR-A-	4702.013.011	A	25x22 DIN 5482	2 x M12	82,55	106,4	
MGL-MGT-MGLR-A-25	4702.012.012	A	Ø 25 ch 8	2 x M12	82,55	106,4	
MGL-MGT-MGLR-A-25,4	4702.012.014	A	Ø 25,4 ch 6,35	2 x M12	82,55	106,4	
MGL-MGT MGLR-A-SAE 6B	4702.013.013	A	SAE 6 B	2 x M12	82,55	106,4	
MGL-MGT-MGLR-B-SAE 6B	4702.013.012	A	SAE 6 B	4 x M 12	82,55	106,4	
OLIOTSTIP							
RMF 100-150	4702.013.043	A	26x32 UNI 221	5 x M10	172	172	
RMF 200-300	4702.053.016	B	32x38 UNI 221	5 x M12	190	190	

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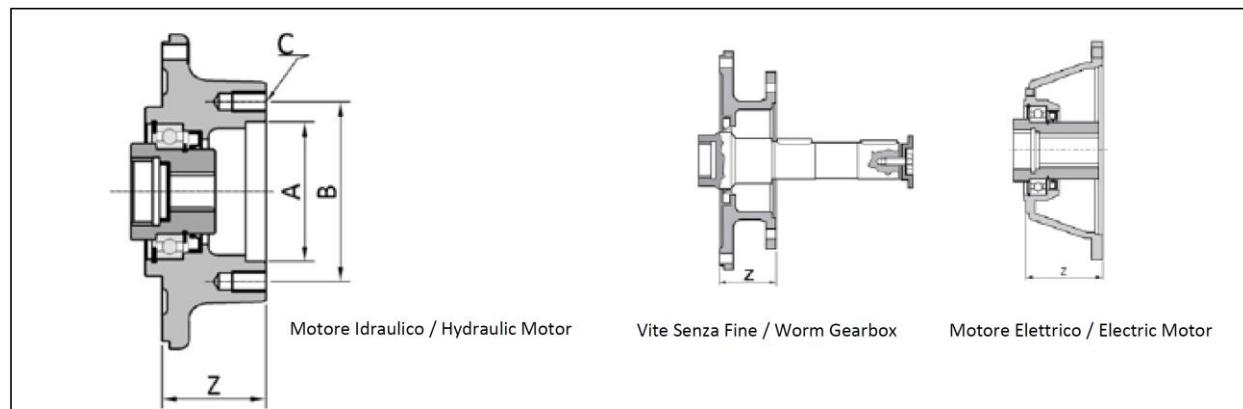


Tipo Motore / Motor Type	Codice / Code	Tipo Entrata	GIUNTO - COUPLING	C	A [mm]	B [mm]	Z
BRUENINGHAUS HYDROMATIK (BOSCH REXROTH)							
MZA 01-03-06-00	4702.012.012	A	Ø 25 ch 8	2 x M12	82,55	106,4	
A2FM 10-12 serie 6.1 alb. P	4702.012.061	A	Ø 20 ch 6	4 x M8	80	100	
A2FM 16 serie 6.1 alb. B	4702.012.062	A	Ø 25 ch 8	4 x M8	80	100	
A2FM 23-28 serie 6.1 alb. P	4702.012.063	A	Ø 25 ch 8	4 x M10	100	125	
A2FM 10-12-16 serie 6.1 alb. A	4702.013.009	A	W25x1,25x18 DIN 5480	4 x M8	80	100	
A2FM 23-28 serie 6.1 alb. Z	4702.013.062	A	W25x1,25x18 DIN 5480	4 x M10	100	125	
A2FM 23-28-32 serie 6.1 alb. A	4702.013.063	A	W30x2X14 DIN 5480	4 x M10	100	125	
A2FM 45-56 serie 6.1 alb. Z	4702.013.019	A	W30x2X14 DIN 5480	4 x M12	125	160	
A2FM 45 serie 6.1 alb. A	4702.013.020	A	W32X2X14 DIN 5480	4 x M12	125	160	
A2FM 56-63 serie 6.1 alb. A	4702.013.021	A	W35X2X16 DIN 5480	4 x M12	125	160	
A2FM 80 serie 6.1 alb. Z	4702.013.071	A	W35X2X16 DIN 5480	4 x M12	140	180	
A2FM 80-90 serie 6.1 alb. A	4702.013.064	A	N40x2x18 DIN 5480	4 x M12	140	180	
A2FM 107 serie 6.1 alb. Z	4702.013.065	A	N40x2x18 DIN 5480	4 x M16	160	200	
A2FM 107 serie 6.1 alb. Z	4702.053.007	B	N40x2x18 DIN 5480	4 x M16	160	200	
A2FM 107-125 serie 6.1 alb. A	4702.053.006	B	W45X2X21 DIN 5480	4 x M16	160	200	
A2FM 160-180 serie 6.1 alb. A	4702.053.008	B	W50x2x24 DIN 5480	4 x M16	180	224	
A2FM 160 serie 6.1 alb. Z	4702.053.009	B	W50x2x24 DIN 5480	4 x M16	180	224	
A6VM55 alb. Z	4702.013.019	A	W30X2X14 DIN 5480	4 x M12	125	160	
A6VM55 alb. A	4702.013.021	A	W35X2X16 DIN 5480	4 x M12	125	160	
A6VM80 alb. Z	4702.013.071	A	W35X2X16 DIN 5480	4 x M12	140	180	
A6VM80 alb. A	4702.013.064	A	N40x2x18 DIN 5480	4 x M12	140	180	
A6VM107 alb. Z	4702.013.065	A	N40x2x18 DIN 5480	4 x M16	160	200	
A6VM107 alb. Z	4702.053.007	B	N40x2x18 DIN 5480	4 x M16	160	200	
A6VM107 alb. A	4702.053.006	B	W45X2X21 DIN 5480	4 x M16	160	200	
A6VM160 alb. Z	4702.053.009	B	W45X2X21 DIN 5480	4 x M16	180	224	
SAEJ 744C - SAE A							
SAE A 2F	4702.012.025	A	Ø 19,05 ch 4,8	2 x M12	82,55	106,4	
SAE A 2F	4702.012.012	A	Ø 25 ch 8	2 x M12	82,55	106,4	
SAE A 2F	4702.013.013	A	SAE 6 B	2 x M12	82,55	106,4	
SAE A 2F	4702.013.014	A	SAE 6 B	2 x M12	82,55	106,4	
SAE A 2F	4702.012.013	A	Ø 25,4 ch 6,35	2 x M12	82,55	106,4	
SAE A 2F	4702.012.014	A	Ø 25,4 ch 6,35	2 x M12	82,55	106,4	
SAE A 2F	4702.012.015	A	Ø 31,75 ch 7,96	2 x M12	82,55	106,4	
SAE A 2F	4702.012.017	A	Ø 31,75 ch 7,96	2 x M12	82,55	106,4	
SAE A 2F	4702.012.018	A	Ø 32 ch 10	2 x M12	82,55	106,4	
SAE A 2F	4702.013.038	A	12/24 DP Z=14	2 x M12	82,55	106,4	
SAE A 2F	4702.013.049	A	16/32 DP Z=13	2 x M12	82,55	106,4	
SAE A 2F	4702.013.010	A	16/32 DP Z=9	2 x M12	82,55	106,4	
SAE A 2F	4702.013.011	A	25x22 DIN 5482	2 x M12	82,55	106,4	
SAE A 4F (45°-90°)	4702.012.019	A	Ø 32 ch 10	4 x M12 - 4 x M12	82,55	106,4	
SAE A 4F (45°-90°)	4702.012.016	A	Ø 31,75 ch 7,96	4 x M12 - 4 x M12	82,55	106,4	
SAE A 4F (45°-90°)	4702.013.039	A	12/24 DP Z=14	4 x M12 - 4 x M12	82,55	106,4	
SAE A 4F (45°-90°)	4702.013.047	A	12/24 DP Z=14	4 x M12 - 4 x M12	82,55	106,4	
SAE A 4F (45°-90°)	4702.012.022	A	Ø 25,4 ch 6,35	4 x M12 - 4 x M12	82,55	106,4	
SAE A 4F (45°-90°)	4702.012.026	A	Ø 25 ch 8	4 x M12 - 4 x M12	82,55	106,4	
SAE A 4F (45°-90°)	4702.013.012	A	SAE 6 B	4 x M12 - 4 x M12	82,55	106,4	

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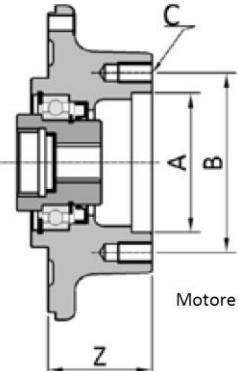
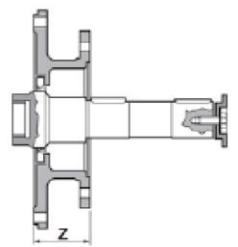
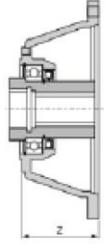
 <p>Motore Idraulico / Hydraulic Motor</p>								 <p>Vite Senza Fine / Worm Gearbox</p>								 <p>Motore Elettrico / Electric Motor</p>										
Tipo Motore / Motor Type	Codice / Code	Tipo Entrata	GIUNTO - COUPLING	C	A [mm]	B [mm]	Z																			
SAEJ 744C - SAE B																										
SAE B 2F + 4F	4702.012.038	A	Ø 31,75 ch 7,96	2 x M 12	101,6	146 - 127																				
SAE B 2F + 4F	4702.013.053	A	12/24 DP Z=14	2 x M12 - 4 x M12	101,6	146 - 127																				
SAE B 2F + 4F	4702.013.001	A	16/32 DP Z=13	2 x M12 - 4 x M12	101,6	146 - 127																				
SAE B 2F + 4F	4702.013.002	A	16/32 DP Z=13	2 x M12 - 4 x M12	101,6	146 - 127																				
SAE B 2F + 4F	4702.013.003	A	16/32 DP Z=15	2 x M12 - 4 x M12	101,6	146 - 127																				
SAE B 2F + 4F	4702.012.001	A	Ø 22,22 ch 6,35	2 x M12 - 4 x M12	101,6	146 - 127																				
SAE B 2F + 4F	4702.012.002	A	Ø 22,22 ch 6,35	2 x M12 - 4 x M12	101,6	146 - 127																				
SAE B 2F + 4F	4702.012.003	A	Ø 22,22 ch 6,35	2 x M12 - 4 x M12	101,6	146 - 127																				
SAE B 2F + 4F	4702.012.009	A	Ø 25 ch 8	2 x M12 - 4 x M12	101,6	146 - 127																				
SAE BB 2F + 4F	4702.013.050	A	12/24 DP Z=14	2 x M12 - 4 x M12	101,6	146 - 127																				
SAE BB 2F + 4F	4702.012.004	A	Ø 25,4 ch 6,35	2 x M12 - 4 x M12	101,6	146 - 127																				
SAE BB 2F + 4F	4702.012.005	A	Ø 25,4 ch 6,35	2 x M12 - 4 x M12	101,6	146 - 127																				
SAEJ 744C - SAE C																										
SAE C 2F + 4F	4702.012.020	A	Ø 31,75 ch 7,96	2 x M16 - 4 x M14	127	181 - 162																				
SAE C 2F + 4F	4702.013.015	A	12/24 DP Z=14	2 x M16 - 4 x M14	127	181 - 162																				
SAE C 2F + 4F	4702.013.017	A	16/32 DP Z=21	2 x M16 - 4 x M14	127	181 - 162																				
SAE C 2F + 4F	4702.013.018	A	16/32 DP Z=23	2 x M16 - 4 x M14	127	181 - 162																				
SAE CC 2F + 4F	4702.013.016	A	12/24 DP Z=17	2 x M16 - 4 x M14	127	181 - 162																				
SAEJ 744C - SAE D																										
SAE D 4F	4702.053.004	B	12/24 DP Z=20	4 x M20	152,4	228,6																				
SAE D 4F	4702.053.012	B	16/32 DP Z=27	4 x M20	152,4	228,6																				
SAE D 4F	4702.053.005	B	8/16 DP Z=13	4 x M20	152,4	228,6																				
SAI																										
M05 - P05 - GM05	4702.013.041	A	28x34 UNI 221	5 x Ø 13	125	160																				
M05 - P05 - GM05	4702.013.044	A	W35x2x16 DIN 5480	5 x Ø 13	125	160																				
M1	4702.013.022	A	28x34 UNI 221	5 x M10	175	210																				
M1	4702.013.040	A	W35x2x16 DIN 5480	5 x M10	175	210																				
GM1	4702.013.081	A	28x34 UNI 221	5 x M12	175	210																				
P 1	4702.013.048	A	W35x2x16 DIN 5480	5 x M12	175	210																				
M2	4702.013.066	A	36x40 UNI 200	5 x M12	150	195																				
GM2	4702.013.055	A	36x40 UNI 200	5 x M12	150	250																				
M2 - M3	4702.053.010	B	36x40 UNI 200	5 x M12	150	250 - 195																				
GM3	4702.053.037	B	46x54 UNI 221	5 x M18	265	310																				
M4	4702.053.025	B	56x65 UNI 221	5 X M14	175	245																				
S.A.M. HYDRAULIK																										
AG-AR NS25	4702.013.011	A	25x22 DIN 5482	2 x M12	82,55	106,4																				
AG-AR NC25	4702.012.012	A	Ø 25 ch 8	2 x M12	82,55	106,4																				
AG-AR NC25.4	4702.012.014	A	Ø 25,4 ch 6,35	2 x M12	82,55	106,4																				
AG-AR NSD25	4702.013.013	A	SAE 6 B	2 x M12	82,55	106,4																				
AGS -ARS DC25	4702.012.026	A	Ø 25 ch 8	4 x M12	82,55	106,4																				
AGS-ARS DCN25 HPR	4702.012.019	A	Ø 32 ch 10	4 x M12	82,55	106,4																				
AGS-ARS DSD25	4702.013.012	A	SAE 6 B	4 x M12	82,55	106,4																				

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Tipo Motore / Motor Type	Codice / Code	Tipo Entrata	GIUNTO - COUPLING	C	A [mm]	B [mm]	Z
SAUER DANFOSS (piston)							
SNM2	4702.013.010	A	16/32 DP Z=9	2 x M12	82,55	106,4	
MMF 023C	4702.013.001	A	16/32 DP Z=13	2 x M12 - 4 x M12	101,6	146 - 127	
MMF 035C	4702.013.003	A	16/32 DP Z=15	2 x M12 - 4 x M12	101,6	146 - 127	
OMF 18-SMF18	4702.013.001	A	16/32 DP Z=13	2 x M12 - 4 x M12	101,6	146 - 127	
OMV18-SMV18	4702.013.067	A	16/32 DP Z=13	2 x M12 - 4 x M12	101,6	146 - 127	
SMF 4/046	4702.013.003	A	16/32 DP Z=15	2 x M12 - 4 x M12	101,6	146 - 127	
90 M55	4702.013.017	A	16/32 DP Z=21	4 x M14	127	162	
90 M75	4702.053.013	B	16/32 DP Z=21	4 x M14	127	162	
90 M75-M100	4702.013.018	A	16/32 DP Z=23	4 x M14	127	162	
90 M130 VMV 5/160	4702.053.012	B	16/32 DP Z=27	4 x M20	152,4	228,6	
51 V110 VMV 5/160	4702.053.012	B	16/32 DP Z=27	4 x M20	152,4	228,6	
51 V 250	4702.053.026	B	8/16 DP Z=15	4 x M20	165,1	317,5	
TRW-TORQMOTOR (PARKER)							
ME	4702.013.047	A	12/24 DP Z=14	4 x M12	82,55	106,4	
MF-MAC-MAF-MAB (fl.1 - alb. 1)	4702.013.012	A	Ø 25 ch 8	2 x M12	82,55	106,4	
MF-MAC-MAF-MAB (fl.1 - alb. 2)	4702.012.014	A	Ø 25,4 ch 6,35	2 x M12	82,55	106,4	
MF-MAC-MAF-MAB (fl.1 - alb. 3)	4702.013.013	A	SAE 6 B	2 x M12	82,55	106,4	
VICKERS (EATON)							
35 M - 45 M	4702.013.015	A	12/24 DP Z=14	2 x M16	127	181	
35 M - 45 M	4702.012.020	A	Ø 31,75 ch 7,96	2 x M16	127	181	
MVE 19 - MFE 19	4702.013.003	A	16/32 DP Z=15	2 x M12 - 4 x M12	101,6	146 - 127	
CR (fl. 1 - alb. 2)	4702.012.014	A	Ø 25,4 ch 6,35	2 x M12	82,55	106,4	
CR (fl. 1 - alb. 2)	4702.012.017	A	Ø 31,75 ch 7,96	2 x M12	82,55	106,4	
CR (fl. 1 - alb. 2)	4702.012.015	A	Ø 31,75 ch 7,96	2 x M12	82,55	106,4	
VOLVO-VOAC (PARKER)							
F11-10M C K	4702.012.065	A	Ø 20 ch 8	4 x M10 - 4 x M10	100	125 - 160	
F11-19M C K	4702.012.064	A	Ø 25 ch 8	2 x M12	112	140	
F11-28M S K	4702.012.060	A	Ø 25 ch 8	2 x M12	101,6	146	
F11-10M C D	4702.013.046	A	W20X1.25X14 DIN 5480	2 x M12	100	125	
F11-19M C D	4702.013.068	A	W25x1,25x18 DIN 5480	2 x M12	112	140 - 195	
F11-78 M C D	4702.013.065	A	N40x2x18 DIN 5480	4 x M16	160	200	
F11-110 M C D	4702.013.034	A	N40x2x18 DIN 5480	4 x M16	180	224	
F11-110 M C D	4702.053.018	B	N40x2x18 DIN 5480	4 x M16	180	224	
F12-80 M I D	4702.013.064	A	N40x2x18 DIN 5480	4 x M12	140	180	
F11-39-58 M C D	4702.013.030	A	W30X2X14 DIN 5480	4 x M12	140	180	
F12-30 M F I H D	4702.013.063	A	W30X2X14 DIN 5480	4 x M10 - 4 x M10	100	125 - 160	
F12-40 M F D	4702.013.020	A	W32X2X14 DIN 5480	4 x M12	125	160	
V12 30	4702.013.063	A	W30X2X14 DIN 5480	4 x M10 - 4 x M10	100	125 - 160	
V12 60 alb. D	4702.013.021	A	W35X2X16 DIN 5480	4 x M12	125	160	
V11 60 M S S	4702.013.015	A	12/24 DP Z=14	2 x M16 - 4 x M14	127	181 - 162	
V12 60 alb. C	4702.013.019	A	W30x2x14 DIN 5480	4 x M12	125	160	
V11 80 M S S	4702.013.015	A	12/24 DP Z=14	2 x M16 - 4 x M14	127	181 - 162	
V12 110 M(U-S) S SAE D	4702.053.005	B	8/16 DP Z=13	4 x M20	152,4	228,6	
V12 110 M I D	4702.053.006	B	W45X2X21 DIN 5480	4 x M16	160	200	
V12 110 I H D	4702.053.006	B	W45X2X21 DIN 5480	4 x M16	160	200	

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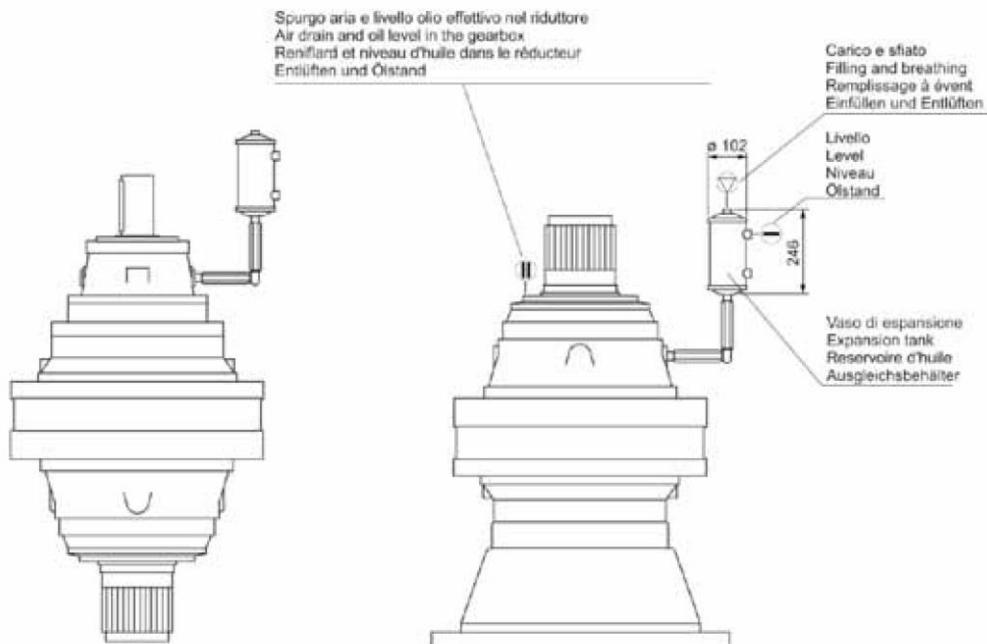
	Motore Idraulico / Hydraulic Motor		Vite Senza Fine / Worm Gearbox		Motore Elettrico / Electric Motor		
WHITE							
RE fl. 06-08 - alb. 05	4702.013.039	A	12/24 DP Z=14	4 x M12	82.55	106.4	
RE fl. 06-08 - alb. 04	4702.012.016	A	Ø 31,75 ch 7,96	4 x M12	82.55	106.4	
HB-HS-RS fl. 03 - alb. 48	4702.012.012	A	Ø 25 ch 8	2 x M12	82.55	106.4	
HB-HS-RS fl. 07-09 - alb. 01	4702.012.014	A	Ø 25,4 ch 6,35	2 x M12	82.55	106.4	
HB-RE fl. 08 - alb. 09	4702.012.019	A	Ø 32 ch 10	4 x M12	82.55	106.4	
HB fl. 08 - alb. 49	4702.013.012	A	SAE 6 B	4 x M12	82.55	106.4	
HS-RS fl. 07-09 - alb. 06	4702.013.013	A	SAE 6 B	2 x M12	82.55	106.4	
RIDUTTORE VITE SENZA FINE MOTOVARIO / MOTVARIO WORM GEARBOX							
NMRV 50 / NRV 50	4702.017.004	A	Ø 25 ch 8	4 x Ø 9	70	85	
NMRV 63 / NRV 63	4702.017.005	A	Ø 25 ch 8	8 x Ø 9	80	95	
NMRV 75 / NRV 75	4702.017.006	A	Ø 28 ch 8	8 x Ø 9	95	115	
NMRV 90 / NRV 90	4702.017.007	A	Ø 35 ch 10	8 x Ø 11	110	130	
NMRV 110-105 / NRV 110-105	4702.057.002	B	Ø 42 ch 12	8 x Ø 11	130	165	
NMRV 130 / NRV 130	4702.057.001	B	Ø 45 ch 14	8 x Ø 13	1880	215	

VASO ESPANSIONE OLIO

Per applicazioni dove vengono considerate posizioni di montaggio verticali si consiglia l'utilizzo di un vaso di espansione che permette di alloggiare eventuali espansioni di olio o di garantire un rabbocco in posizioni inaccessibili. Tale accessorio può essere fornito su richiesta.

OIL RESERVOIR

For applications with planetary gearboxes mounted in vertical position, we suggest the use of an oil reservoir which can absorb eventual oil expansions and/or ensure a safe topping up in accessible positions. This fitting is supplied upon specific request.



SCAMBIATORE DI CALORE

Qualora la potenza meccanica trasmessa sia superiore a quella termica trasmissibile (vedi tabelle dati tecnici motoriduttori e riduttori), è possibile fornire il riduttore correddato di centralina di raffreddamento. Le centraline autonome di raffreddamento sono unità composte da uno scambiatore di calore aria-olio, una motopompa, un filtro dell'olio da raffreddare, un elettroventilatore ed un impianto elettrico comprendente la protezione termica dei motori elettrici. Caratteristica delle centraline è il basso livello di rumorosità.

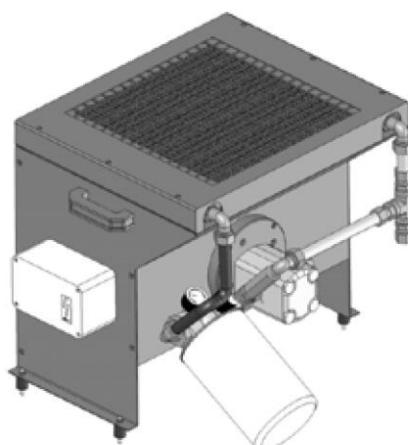
Nota la potenza da trasmettere P e verificato che questa sia superiore alla potenza termica P_t , calcolare la potenza da smaltire P_s con la formula: $P_s = 0.1 \cdot (P_{t1} - P_t)$

OIL COOLER

In the event transmitted mechanical power is higher than transmissible thermal power (see tables of gearbox specifications), gearboxes are available complete with a cooling system. These separate cooling systems are made up of an air-oil heat exchanger, a motor pump, a filter for warm oil and an electric system that incorporates an overload cutout for electric motors. A special feature of these cooling systems is their low noise. Power P to be transmitted is known.

Once you have determined that it is higher than thermal power P_t , calculate excess power P_s using this formula:

$$P_s = 0.1 \cdot (P_{t1} - P_t)$$



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