

## 10.12 - RACCORDI A PRESSARE PER TUBI FLESSIBILI

### Raccordi per tubi flessibili

La gamma dei raccordi a pressare per tubi flessibili viene prodotta in 3 serie.

La scelta dei tubi (in funzione delle pressioni) determina la serie dei raccordi e le specifiche ghiere da utilizzare nella raccordatura.

### Informazioni Tecniche

Tubi e raccordi hanno limiti nella pressione di esercizio; quest'ultima è di norma  $\frac{1}{4}$  della pressione di scoppio, fattore di sicurezza 4.

Le pressioni di esercizio sono riportate nelle norme DIN 2353, DIN 20066, DIN 20078 e corrispondenti.

La pressione massima applicabile su un sistema oleodinamico è la più bassa tra quelle prescritte per il tubo e per il raccordo.

L'utilizzo combinato a pressioni, temperature a raggi di curvatura ai limiti consentiti possono danneggiare il tubo compromettendo l'ancoraggio al raccordo e riducendo la durata del sistema.

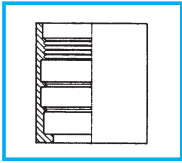
I metodi di prova dei tubi flessibili raccordati sono stabiliti dalle normative SAE J343, DIN 20024 e ISO 1436.

### Pressioni massime di esercizio

Raccordi	Diametro tubi											
	1/4		5/16		3/8		1/2		5/8			
	Filet.	(bar)	Filet.	(bar)	Filet.	(bar)	Filet.	(bar)	Filet.	(bar)		
<b>BSP 60° (BS 5200)</b>	1/4	775	3/8	690	3/8	690	1/2	515	5/8	480		
					1/2	515	5/8	480	3/4	430		
<b>JIC 37° UNF-UN (SAE 514)</b>	7/16	310	9/16	275	9/16	275	3/4	275	7/8	210		
	1/2	275			3/4	275	7/8	210	1"1/16	210		
	9/16	275			7/8	210						
<b>DIN 20078 L</b>	08 L	250	10 L	250	10 L	250	15 L	260	16 L	300		
					12 L	250						
<b>DIN 20078 S</b>	10 S	630	12 S	630	12 S	630	16 S	400	20 S	400		
					14 S	630						
<b>FLANGE J 518 S3000</b>							1/2	350				
<b>FLANGE J 518 S6000</b>							1/2	415				
<b>ORIENTABILI AD OCCHIO (DIN 7642)</b>	1/4	200	3/8	200	3/8	200	1/2	200	5/8	200		
	12	200	16	200	1/2	200	5/8	200	3/4	200		
	14	200			16	200	18	200	26	200		
					18	200	22	200				
<b>TUBI</b>	1/4		5/16		3/8		1/2		5/8			
<b>DIN 20021 - 2TE</b>		200		68		63		58		50		
<b>DIN 20022 1ST - 1SN</b>		225		215		180		160		130		
<b>DIN 20022 2ST - 2SN</b>		400		350		330		275		250		
<b>DIN 20023 - 4SP</b>		/		/		445		415		350		
<b>DIN 20023 - 4SH</b>		/		/		/		/		/		
Raccordi	3/4		1"		1"1/4		1"1/2		2"			
	Filet.	BAR	Filet.	BAR	Filet.	BAR	Filet.	BAR	Filet.	BAR		
<b>BSP 60° (BS 5200)</b>	3/4	430	1"	345	1"1/4	345	1"1/2	345	2"	345		
	1"	345	1"1/4	345								
<b>JIC 37° UNF-UN (SAE 514)</b>	1"1/16	210	1"5/16	170	1"5/8	140	1"7/8	105	2"1/2	80		
<b>DIN 20078 L</b>	22 L	160	28 L	100	35 L	100	42 L	100				
<b>DIN 20078 S</b>	25 S	400	30S	250	38 S	250						
<b>FLANGE J 518 S3000</b>	3/4	350	1"	350	1"1/4	280	1"1/2	210	2"	210		
	1"	350	1"1/4	280	1"1/2	210	2"	210				
<b>FLANGE J 518 S6000</b>	3/4	350	1"	415	1"1/4	415	1"1/2	415	2"	415		
	1"	415	1"1/4	415	1"1/2	415						
<b>ORIENTABILI AD OCCHIO (DIN 7642)</b>	3/4	200	1"	200								
	1"	200										
	30	200										
<b>TUBI</b>	3/4		1"		1"1/4		1"1/2		2"			
<b>DIN 20021 - 2TE</b>		45		40		/		/		/		
<b>DIN 20022 1ST - 1SN</b>		105		88		63		50		40		
<b>DIN 20022 2ST - 2SN</b>		215		165		125		90		80		
<b>DIN 20023 - 4SP</b>		350		280		210		185		165		
<b>DIN 20023 - 4SH</b>		420		380		325		290		250		

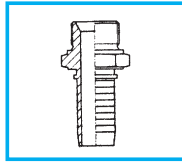
## GHIERE E RACCORDI PER SAE100R1AT - R2AT - R5 - R6 - R7 - HPT1 - HPT2

**Ghiera**



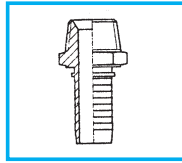
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**Maschio 60° cilindrico BSP**



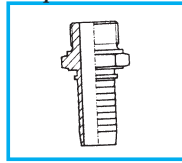
Cod.: **LMCI ...**<sup>1)</sup>

**Maschio conico BSP**



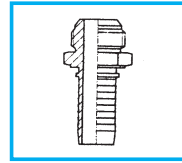
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**Maschio sede piana BSP**



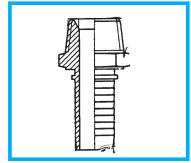
Cod.: **LMR ...**<sup>1)</sup>

**Maschio jic 74° UNF-UN**



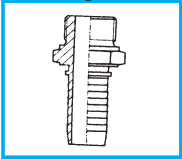
Cod.: **LMJ ...**<sup>1)</sup>

**Maschio NPT**



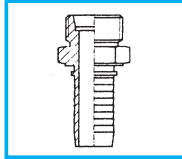
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**Maschio metrico sede piana**



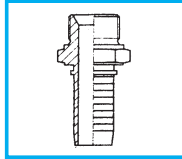
Cod.: **LMM ...**<sup>1)</sup>

**Maschio serie leggera 2M DIN**



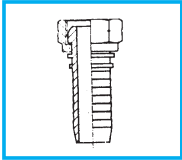
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**Maschio serie pesante 24° DIN**



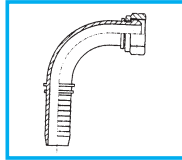
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**Femmina BSP sede 60°**



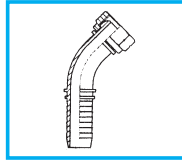
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**Femmina 90° BSP sede 60°**



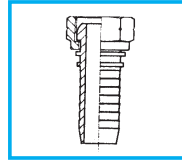
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**Femmina 45° BSP sede 60°**



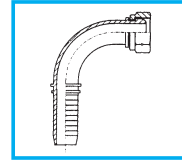
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**Femmina fil. metrico sede 60° DIN 3863**



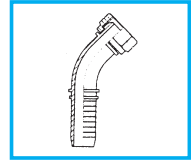
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**Femmina 90° fil. metrico sede 60° DIN 3863**



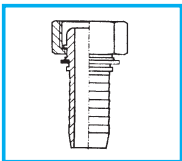
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**Femmina 45° fil. metrico sede 60° DIN 3863**



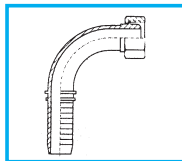
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**Femmina fil. metrico sede 24° serie leggera**



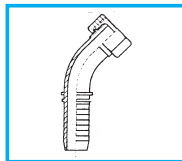
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**Femmina 90° fil. metrico sede 24° serie leggera**



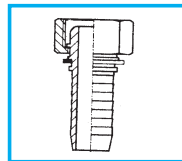
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**Femmina 45° fil. metrico sede 24° serie leggera**



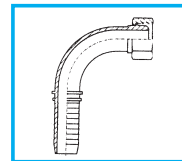
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**Femmina fil. metric sede 24° serie pesante**



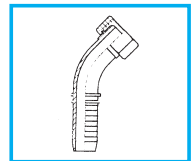
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**Femmina 90° fil. metrico sede 24° serie pesante**



Cod.: **LFS90 ...**<sup>1)</sup>

**Femmina 45° fil. metrico sede 24° serie pesante**

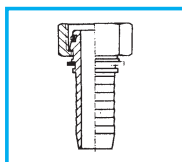


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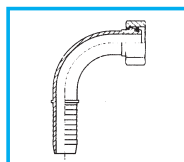
<sup>1)</sup> Misure a richiesta

I tubi si trovano nella sez.7

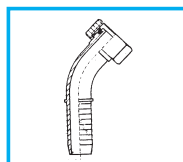
**RACCORDI FEMMINA SEDE 24° con O-Ring DIN 3865 - Filetto metrico serie leggera**



Cod.: **LFL ...<sup>1)</sup>**

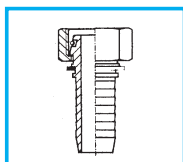


Cod.: **LFL90**

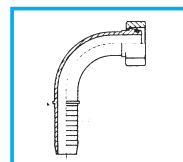


Cod.: **LFL45**

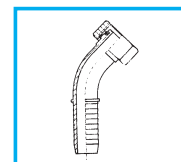
**RACCORDI FEMMINA SEDE 24° con O-Ring DIN 3865 - Filetto metrico serie pesante**



Cod.: **LFS ...<sup>1)</sup>**

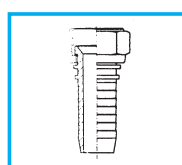


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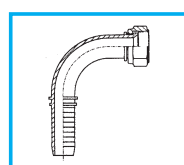


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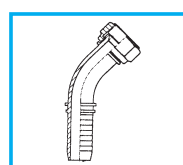
**RACCORDI FEMMINA JIC SEDE 74°**



Cod.: **LFJ ...<sup>1)</sup>**

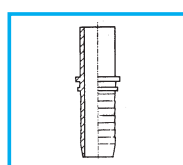


Cod.: **LFJ90...<sup>1)</sup>**

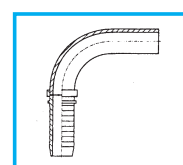


Cod.: **LFJ45...<sup>1)</sup>**

**CODOLI METRICI serie leggera per raccordi DIN 2353**

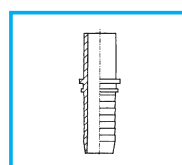


Cod.: **LL ...<sup>1)</sup>**

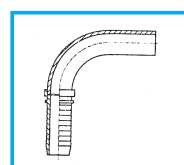


Cod.: **LL90 ...<sup>1)</sup>**

**CODOLI METRICI serie pesante per raccordi DIN 2353**



Cod.: **LS ...<sup>1)</sup>**

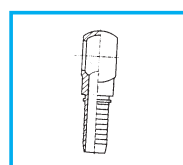


Cod.: **LS90 ...<sup>1)</sup>**

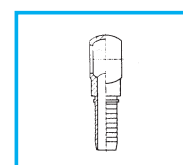
**Raccordi orientabili ad occhio**

*Metrico*

*BSP*

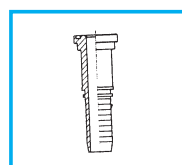


Cod.: **LOM ...<sup>1)</sup>**

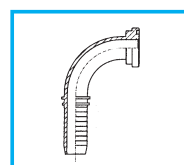


Cod.: **LO ...<sup>1)</sup>**

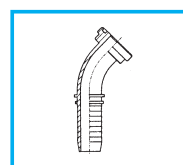
**FLANGE SAE J 518 3000PSI**



Cod.: **LF3 ...<sup>1)</sup>**

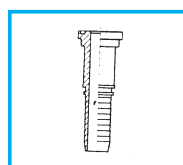


Cod.: **LF390...<sup>1)</sup>**

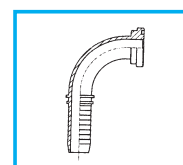


Cod.: **LF345...<sup>1)</sup>**

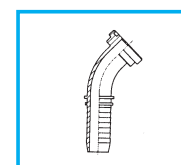
**FLANGE SAE J 518 6000PSI**



Cod.: **LF6 ...<sup>1)</sup>**



Cod.: **LF690 ...<sup>1)</sup>**



Cod.: **LF645...<sup>1)</sup>**

**GHIERE , RACCORDI E MASCHIO PER TUBO DIN 20023-4SP (R9)**

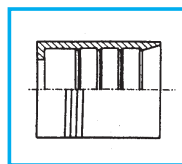
*Ghiera*

*Maschio 24°DIN 3861*

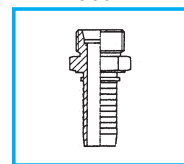
*Maschio NPT*

*BSP cilindrico sede 60°*

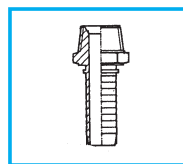
*JIC 74° UNF-UN*



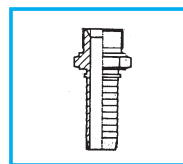
Cod.: **LG ...<sup>1)</sup>**



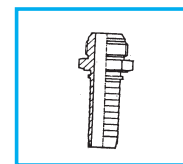
Cod.: **LCES ...<sup>1)</sup>**



Cod.: **LMN ...<sup>1)</sup>**



Cod.: **LMCI ...<sup>1)</sup>**

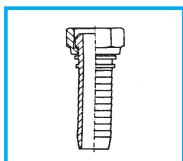


Cod.: **LMJ ...<sup>1)</sup>**

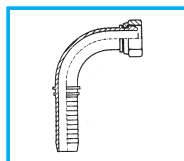
<sup>1)</sup> Misure a richiesta



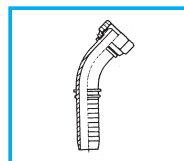
**RACCORDI FEMMINA BPS SEDE 60° per tubo DIN 20023 4SP (RP)**



Cod.: LF ...<sup>1)</sup>

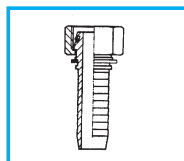


Cod.: LF90 ...<sup>1)</sup>

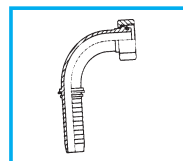


Cod.: LF45 ...<sup>1)</sup>

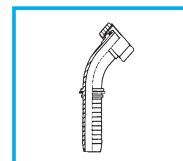
**RACCORDI FEMMINA filetto metrico sede 24° din 3865 con O-Ring per tubo DIN 20023 4SP**



Cod.: LFS ...<sup>1)</sup>

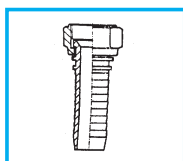


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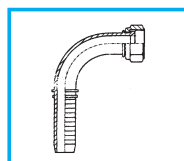


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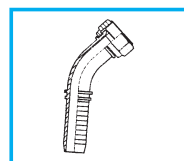
**RACCORDI FEMMINA sede JIC 74° per tubo DIN 20023-4SP (R9)**



Cod.: LFJ ...<sup>1)</sup> R9

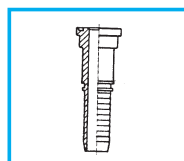


Cod.: LFJ90 ...<sup>1)</sup> R9

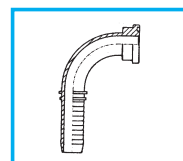


Cod.: LFJ45 ...<sup>1)</sup> R9

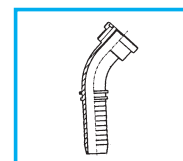
**FLANGE SAE J518 3000PSI per tubo DIN 20023-4SP**



Cod.: LF3 ...<sup>1)</sup> R9

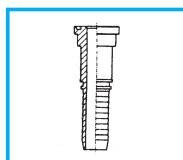


Cod.: LF390 ...<sup>1)</sup> R9

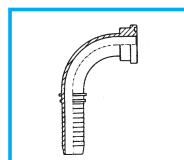


Cod.: LF345 ...<sup>1)</sup> R9

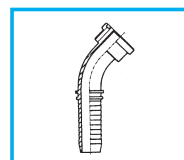
**FLANGE SAE J518 6000 PSI per tubo DIN 20023-4SP**



Cod.: LF6 ...<sup>1)</sup>

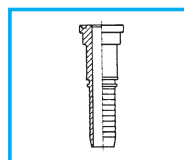


Cod.: LF690

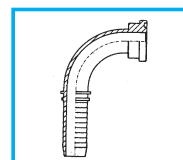


Cod.: LF645

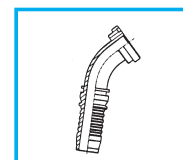
**FLANGE TIPO CAT per tubo DIN 20023-4SP**



Cod.: LFC ...<sup>1)</sup>



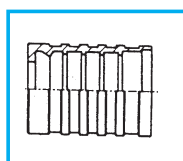
Cod.: LFC90



Cod.: LFC45

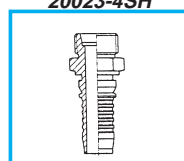
**RACCORDI A PRESSARE per tubo DIN20023 4SH (INTERLOCK)**

Ghiere per tubo  
DIN 20023 HSH



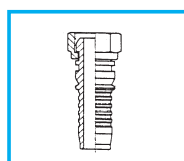
Cod.: LGJ ...<sup>1)</sup>

Maschio 24° DIN  
3861 per tubo DIN  
20023-4SH

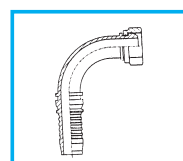


Cod.: LMI ...<sup>1)</sup>

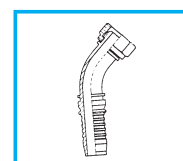
**RACCORDI FEMMINA BSP sede 60° per tubo DIN 20023-4SH (INTERLOCK)**



Cod.: LFI ...<sup>1)</sup>

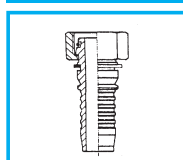


Cod.: LFI90

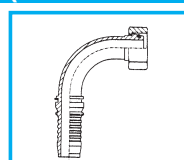


Cod.: LFI45 ...<sup>1)</sup>

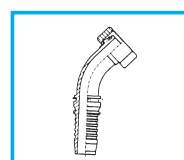
**RACCORDI FEMMINA FILETTO metrico sede 24° DIN 3865 con O-Ring per tubo DIN 20023-4SH (INTERLOCK)**



Cod.: LFSI ...<sup>1)</sup>

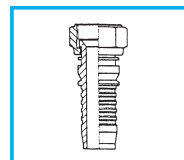


Cod.: LFSI90 ...<sup>1)</sup>

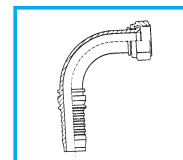


Cod.: LFSI45 ...<sup>1)</sup>

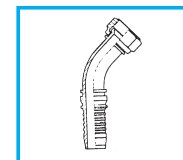
**RACCORDI FEMMINA sede JIC 74° per tubo DIN 20023-4SH 20023-4SH (INTERLOCK)**



Cod.: LFJI ...<sup>1)</sup>



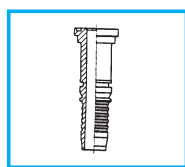
Cod.: LFJI90



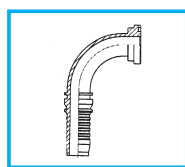
Cod.: LFJI45

<sup>1)</sup> Misure a richiesta

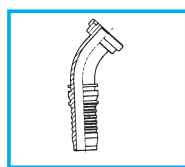
## Flange SAE J518 3000PSI per tubo DIN 20023-4SH 20023-4SH (INTERLOCK)



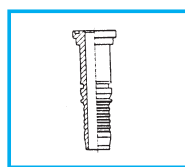
Cod.: LF3I ...<sup>1)</sup>



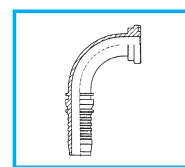
Cod.: LF3I90 ...<sup>1)</sup>



Cod.: LF3I45 ...<sup>1)</sup>



Cod.: LF6I ...<sup>1)</sup>



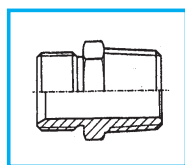
Cod.: LF6I90 ...<sup>1)</sup>



Cod.: LF6I45...<sup>1)</sup>

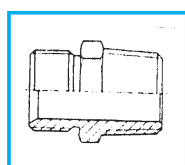
## Componenti / adattatori

*Adattatore BSP  
cilindrico 60° -  
BSP conico*



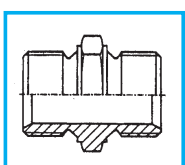
Cod.: LNC ...<sup>1)</sup>

*Adattatore BSP  
cilindrico 60° -  
NPT*



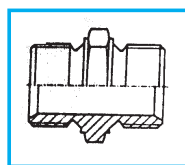
Cod.: LNCN ...<sup>1)</sup>

*Adattatore BSP  
cilindrico 60° -  
BSP cilindrico 60°*



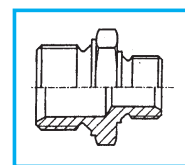
Cod.: LN ...<sup>1)</sup>

*Adattatore metrico  
cilindrico 60° -  
metrico cilindrico*



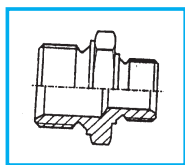
Cod.: LNM ...<sup>1)</sup>

*Adattatore di  
riduzione BSP  
cilindrico 60°*



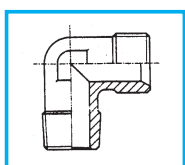
Cod.: LNR ...<sup>1)</sup>

*Adattatore di  
riduzione metrico  
cilindrico 60°*



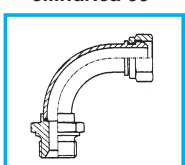
Cod.: LNMR ...<sup>1)</sup>

*Adattatore a 90°  
maschio BSP  
cilindrico 60° -  
Maschio BSP  
conico*



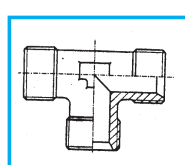
Cod.: LA ...<sup>1)</sup>

*Adattatore a 90°  
maschio BSP  
cilindrico 60° -  
Femmina BSP  
cilindrica 60°*



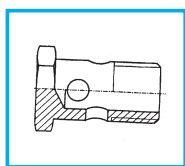
Cod.: LAMF ...<sup>1)</sup>

*Adattatore a T  
Maschio BSP  
cilindrico 60° o 60°*



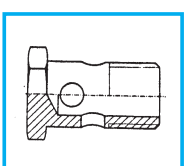
Cod.: LAT ...<sup>1)</sup>

*Bullone cavo  
filetto BSP*



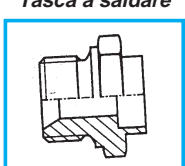
Cod.: LT ...<sup>1)</sup>

*Bullone cavo  
filetto metrico*



Cod.: LTM ...<sup>1)</sup>

*Adattatore BSP  
cilindrico 60° con  
Tasca a saldare*



Cod.:  
LN...<sup>1)</sup>  
F143

<sup>1)</sup> Misure a richiesta