

 **FILTRAZIONE IDRAULICA**
 **HYDRAULIC FILTRATION**



FILTREC[®]
Technical Filtration

serie
FD-1



Serie FD-1

Filtri in linea per le alte pressioni *In line high pressure filters*



CORPO FILTRO

Descrizione:
Portata massima:
Pressione max di esercizio:
Pressione di prova:
Pressione di scoppio:
Connessioni:
Valvola by-pass :
Indicatore intasamento:
Temperatura di esercizio:
Materiali:

Compatibilità con fluidi:

Caratteristiche tecniche

Filtri di linea per alte pressioni con cartuccia rigenerabile o a perdere
400 lt/min

Secondo NFPA T 3.10.5.1: 420 Bar

Secondo NFPA T 3.10.5.1: 600 Bar

Secondo NFPA T 3.10.5.1: 1260 Bar

BSP, NPT, SAE J518, SAE J514b

Senza o taratura 6 Bar

Differenziale visivo e visivo elettrico, tarature 5 e 8 Bar

-25°C +120°C

- Testata: ghisa
- Contenitore: acciaio estruso
- Guarnizioni: Buna-N / Viton®

ISO 2943: Filtro compatibile con oli minerali ed alcuni oli sintetici e vegetali. Per altri fluidi contattare FILTREC S.p.A.

ELEMENTO FILTRANTE

Setto filtrante:

Microfibra di vetro 3,6,10,25 μ

Carta 10,25 μ

Tela metallica 10,25 μ

Pressione di collasso:

Secondo ISO 2941: 21 Bar e 210 Bar



FILTER HEAD

Description:
Max flow rate:
Max working pressure:
Test pressure:
Burst pressure:
Connection Ports:
By-pass:
Indicator:

Working temperature:
Materials:

Fluids compatibility:

Technical Information

*In line high pressure filter assembly with cleanable or throw way elements
400 lt/min (105.5 gpm)*

As per NFPA T 3.10.5.1: 420 Bar (6091.5 psi)

As per NFPA T 3.10.5.1: 600 Bar (8702.3 psi)

As per NFPA T 3.10.5.1: 1260 Bar (18274.8 psi)

BSP, NPT, SAE J518, SAE J514b

No by-pass or 6 Bar (87 psi) setting

Differential visual and differential electrical visual ,
5 Bar (72.5 psi) and 8 Bar (116 psi) setting.

-25°C +120°C (-13°F +248°F)

- Head: cast iron
- Bowl: extruded steel
- Seal: Buna-N / Viton®

ISO 2943: Filters are compatible with most mineral oils and some synthetic-vegetable oils. For other fluids applications, please contact Filtrec S.p.A.

FILTER ELEMENT

Filter media:

Microglass fiber 3,6,10,25 μ

Cellulose 10,25 μ

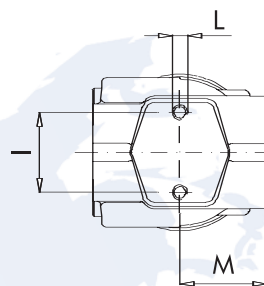
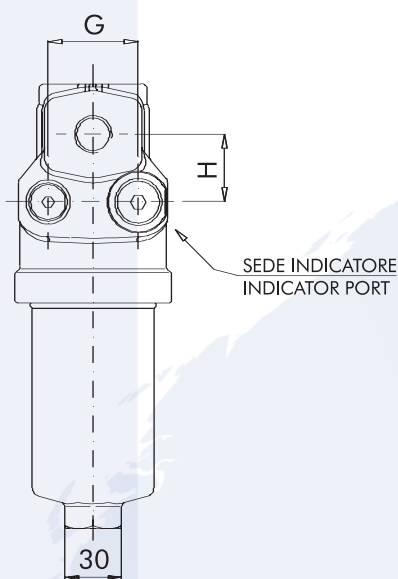
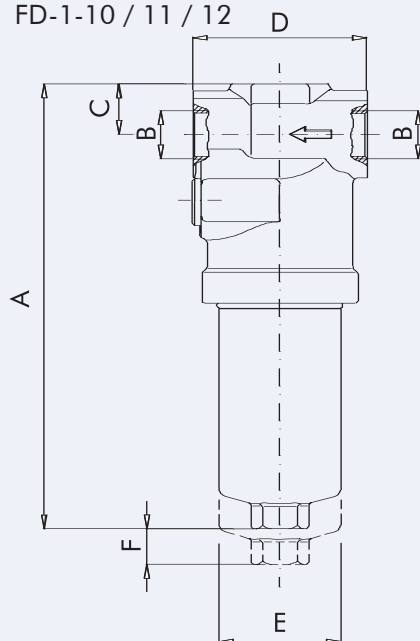
Wire mesh 10, 25 μ

Collapse pressure:

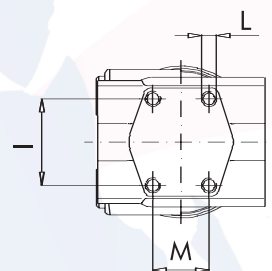
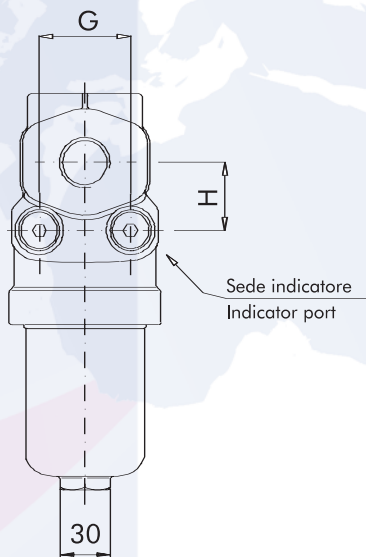
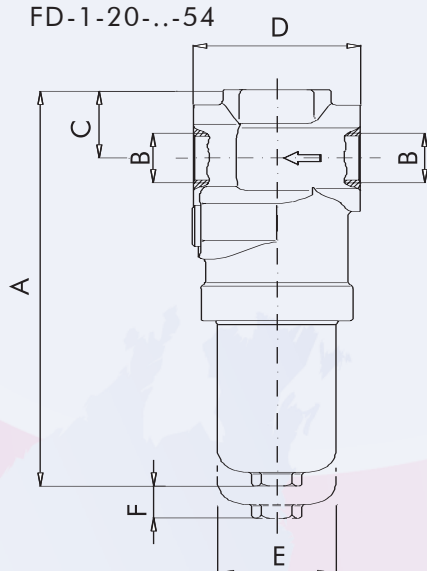
As per ISO 2941: 21 Bar (305 psi) and 210 Bar (3045 psi)

Informazioni dimensionali - Overall dimensions

FD-1-10 / 11 / 12



FD-1-20-...-54



1) Grandezza nominale - Nominal size

Codice - Code	A	B	C	D	E	F	G	H	I	L	M	Cart. ricambio - element
FD-1-10	200	1/2" - 3/4" BSP	27	100	70	95	52	39	46	Vedi tabella 5 - See table 5	50	D-1-10
FD-1-11	226	1/2" - 3/4" NPT	27	100	70	95	52	39	46		50	D-1-11
FD-1-12	323	3/4" - 1 1/16" SAE J514b	27	100	70	95	52	39	46		50	D-1-12
FD-1-20	252	3/4" - 1" BSP	39	110	78,5	100	60	45	57		37	D-1-20
FD-1-21	360	3/4" - 1" NPT	39	110	78,5	100	60	45	57		37	D-1-21
FD-1-30	252	3/4" - 1" SAE J518	39	110	78,5	100	60	45	57		37	D-1-30
FD-1-31	360	1 1/16" - 1 5/16" SAE J514b	39	110	78,5	100	60	45	57		37	D-1-31
FD-1-40	276	1" - 1 1/4" - 1 1/2" BSP	47	140	105	105	70	58	76		64	D-1-40
FD-1-41	400		47	140	105	105	70	58	76		64	D-1-41
FD-1-42	546		47	140	105	105	70	58	76		64	D-1-42
FD-1-43	685		47	140	105	105	70	58	76		64	D-1-43
FD-1-50	276	1 1/4" - 1 1/2" SAE J518	47	140	105	105	70	58	76		64	D-1-50
FD-1-51	400	1 5/8" - 1 7/8" SAE J514b	47	140	105	105	70	58	76		64	D-1-51
FD-1-52	546		47	140	105	105	70	58	76		64	D-1-52
FD-1-53	685		47	140	105	105	70	58	76		64	D-1-53
FD-1-54	306		47	140	105	105	70	58	76		64	D-1-54

2) Grado di filtrazione - Filtration ratings

Codice - Code	Materiale - Media	Efficienza - Efficiency	Note
0	senza cartuccia / no element	-----	Solo Δp 21 Bar Δp 21 Bar (305 psi) only
G03	microfibra inorganica / microglass fiber	$\beta_3 \geq 1000$	
G06	microfibra inorganica / microglass fiber	$\beta_6 \geq 1000$	
G10	microfibra inorganica / microglass fiber	$\beta_{10} \geq 1000$	
G25	microfibra inorganica / microglass fiber	$\beta_{25} \geq 1000$	
C10	carta trattata / resin impregnated cellulose	$\beta_{10} \geq 2$	
C25	carta trattata / resin impregnated cellulose	$\beta_{25} \geq 2$	
T60	tela metallica / wire mesh	-----	
T125	tela metallica / wire mesh	-----	

3) Collasso cartuccia Element collapse

Codice - Code	$\Delta^3 p$ (Bar) - $\Delta^3 p$ (psi)
A	21 Bar / 305 psi
B	210 Bar / 3045 psi

4) Guarnizioni Seals

Codice - Code	Tipo - Type
---	NBR
V	Viton®

5) Connessioni - Connection port

Codice - Code	FD-1-1x		FD-1-2x / FD-1-3x		FD-1-4x / FD-1-5x	
	B	L	B	L	B	L
B3	1/2" BSP	M8	3/4" BSP 1" BSP	M10 M10	1" BSP 1 1/4" BSP 1 1/2" BSP	M12 M12 M12
B4	3/4" BSP	M8				
B5						
B6						
B7						
N3	1/2" NPT	5/16-18 UNC-2B	3/4" NPT 1" NPT	3/8-16 UNC-2B 3/8-16 UNC-2B	1" NPT 1 1/4" NPT 1 1/2" NPT	1/2-13 UNC-2B 1/2-13 UNC-2B 1/2-13 UNC-2B
N4	3/4" NPT	5/16-18 UNC-2B				
N5						
N6						
N7						
F4M			3/4" SAE J518 - 3000 1" SAE J518 - 3000	M12 M12	1 1/4" SAE J518 - 3000 1 1/2" SAE J518 - 3000	M12 M12
F5M						
F6M						
F7M						
F4U			3/4" SAE J518 - 3000 1" SAE J518 - 3000	3/8-16 UNC-2B 3/8-16 UNC-2B	1 1/4" SAE J518 - 3000 1 1/2" SAE J518 - 3000	1/2-13 UNC-2B 1/2-13 UNC-2B
F5U						
F6U						
F7U						
H4M			3/4" SAE J518 - 6000 1" SAE J518 - 6000	M12 M12	1 1/4" SAE J518 - 6000 1 1/2" SAE J518 - 6000	M12 M12
H5M						
H6M						
H7M						
H4U			3/4" SAE J518 - 6000 1" SAE J518 - 6000	3/8-16 UNC-2B 3/8-16 UNC-2B	1 1/4" SAE J518 - 6000 1 1/2" SAE J518 - 6000	1/2-13 UNC-2B 1/2-13 UNC-2B
H5U						
H6U						
H7U						
R3	3/4-16 UNF-2B SAE J514b	5/16-18 UNC-2B	1-1/16-12 UN-2B SAE J514b 1-5/16-12 UN-2B SAE J514b	3/8-16 UNC-2B 3/8-16 UNC-2B	1-5/8-12 UN-2B SAE J514b 1-7/8-12 UN-2B SAE J514b	1/2-13 UNC-2B 1/2-13 UNC-2B
R4	1-1/16-12 UN-2B SAE J514b	5/16-18 UNC-2B				
R5						
R6						
R7						

6) Valvola di by-pass - By-pass valve

Codice - Code	Taratura - Setting
0	senza / without
D	6 Bar / 87 psi

7) Indicatori - Indicator

Codice - Code	Tipo indicatore - Indicator type	Taratura - Setting
0	senza / without	-----
Z3	differenziale visivo differential visual switch	5 Bar 72.5 psi
Z4	differenziale visivo elettrico differential electrical visual	5 Bar 72.5 psi
Z5	differenziale visivo differential visual switch	8 Bar 116 psi
Z6	differenziale visivo elettrico differential electrical visual	8 Bar 116 psi

Codici per l'ordinazione - Ordering information

Filtro completo
Filter assembly

FD-1

30	G10	A	V	F5M	D	Z4
1*	2*	3*	4*	5*	6*	7*

Cartuccia
Filter elements

D-1

30	G10	A	V
1*	2*	3*	4*

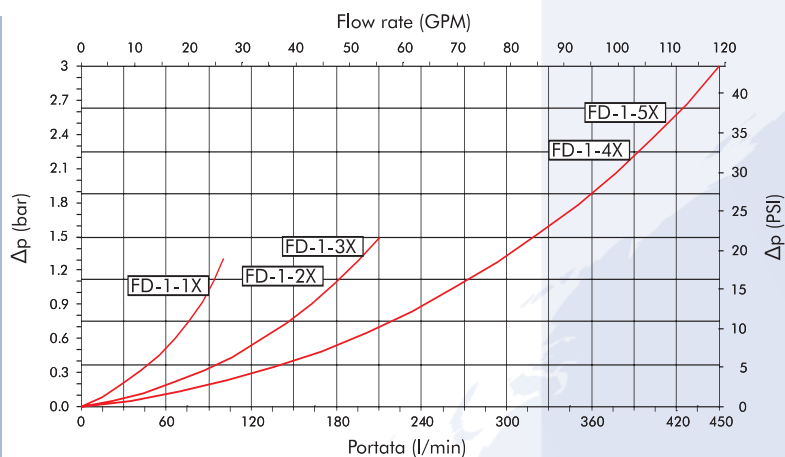
Curve di portata - Pressure drop charts

Le curve (secondo ISO 3968 classe B) sono ottenute con olio minerale avente viscosità di 30 cSt e densità di 0,86 Kg/dm³.

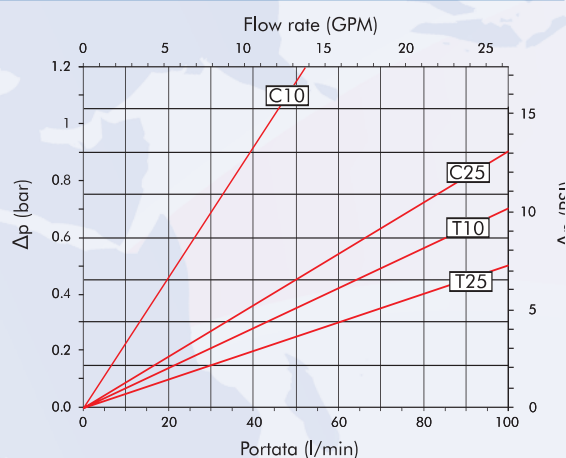
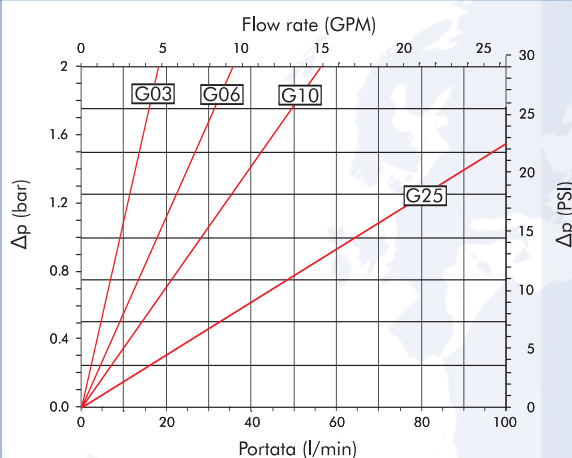
Per viscosità e densità diverse i dati variano, in prima approssimazione proporzionalmente.

Pressure drop charts as per ISO 3968 class B. 30 Cst viscosity mineral oil .

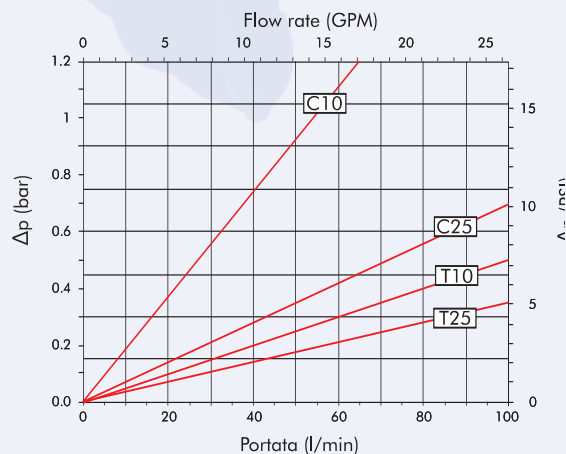
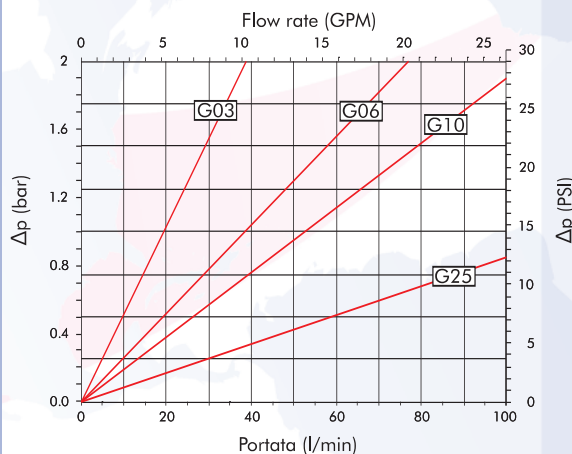
Filtro Housing



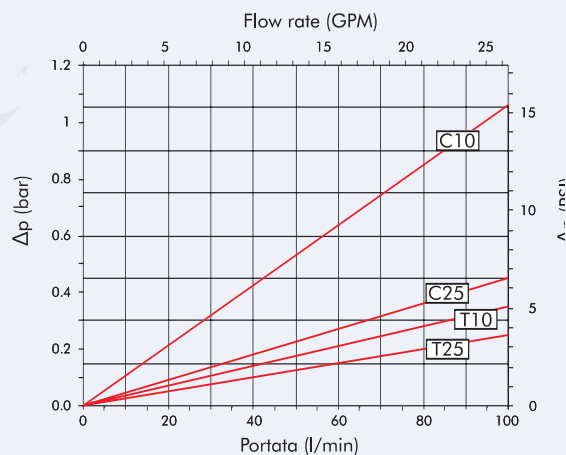
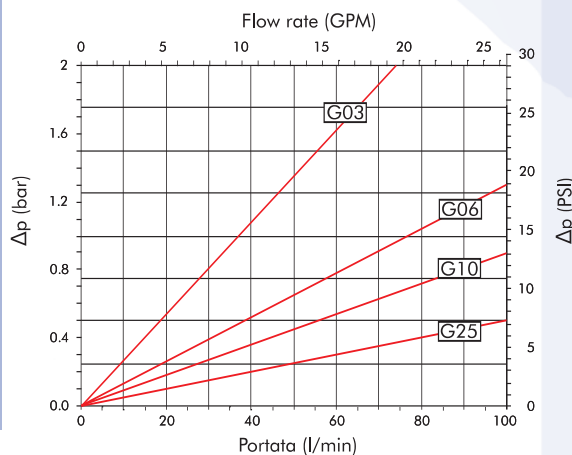
D-1-10-...-A



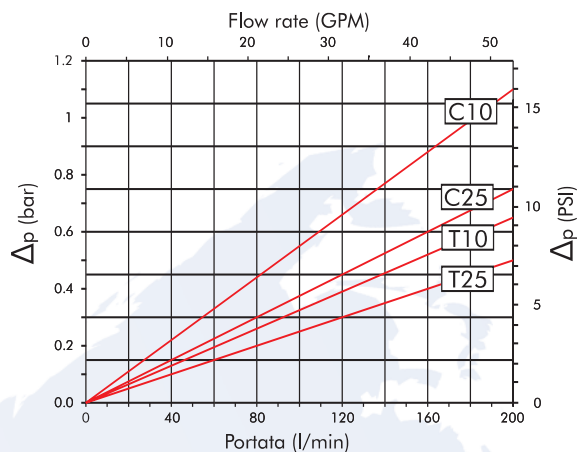
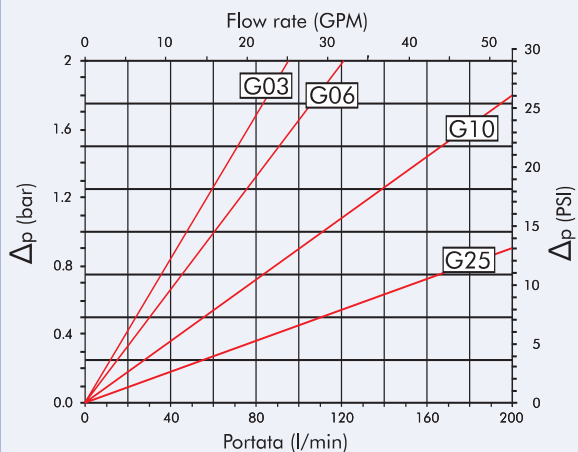
D-1-11-...-A



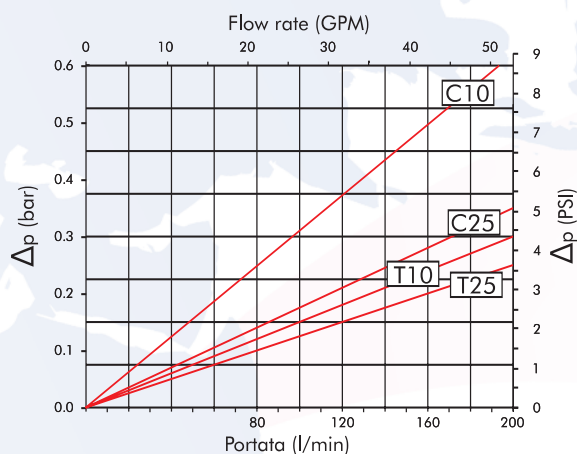
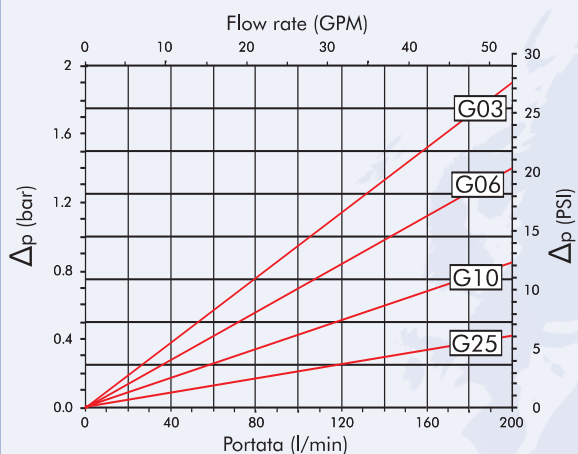
D-1-12-...-A



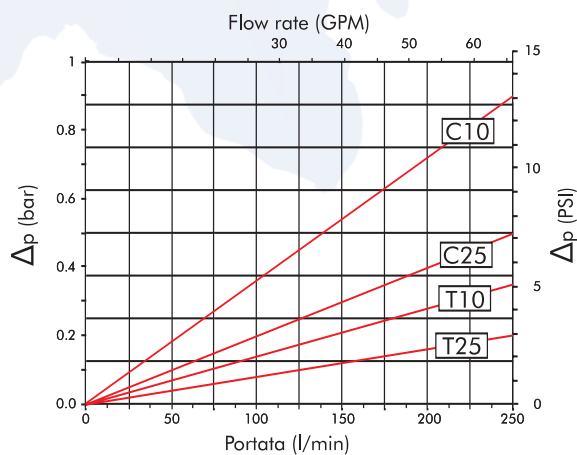
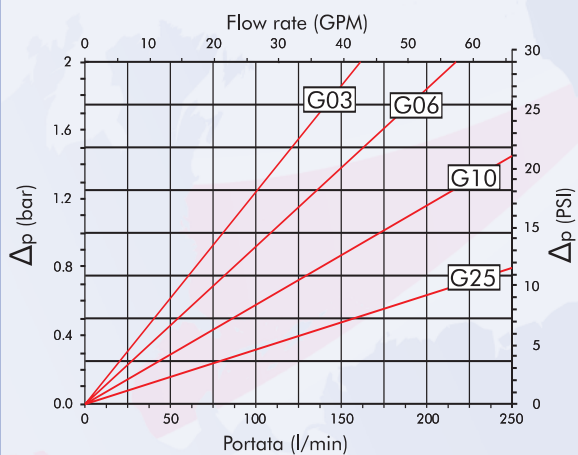
D-1-20---A D-1-30---A



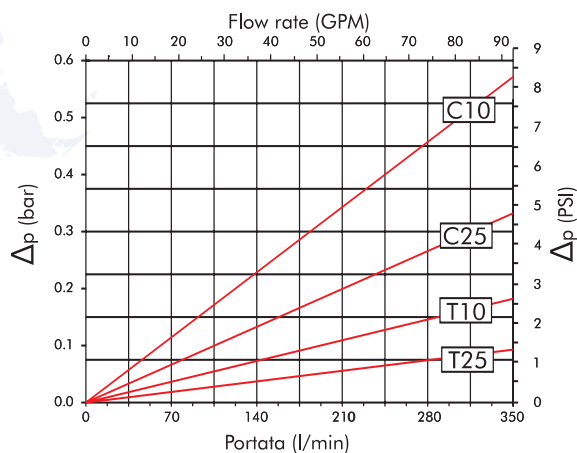
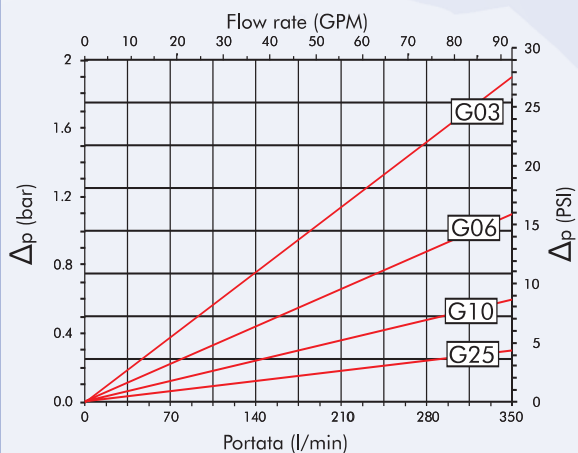
D-1-21---A D-1-31---A



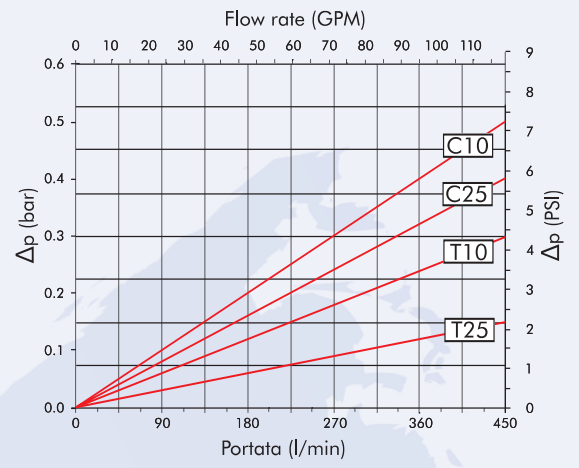
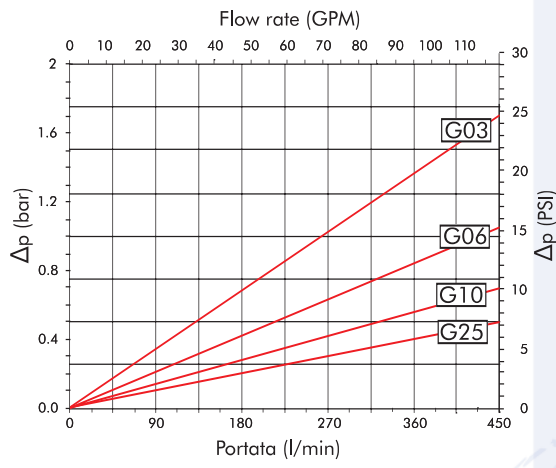
D-1-40---A D-1-50---A



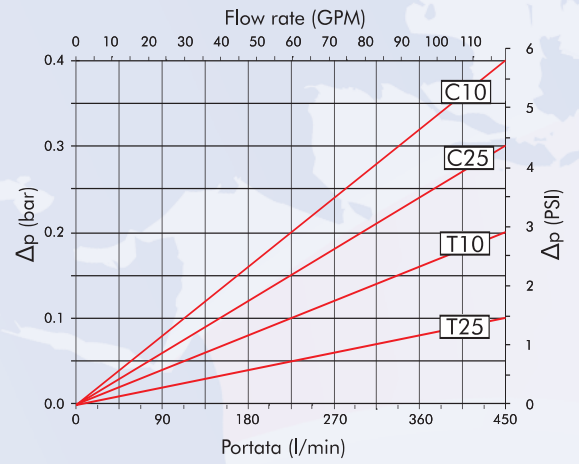
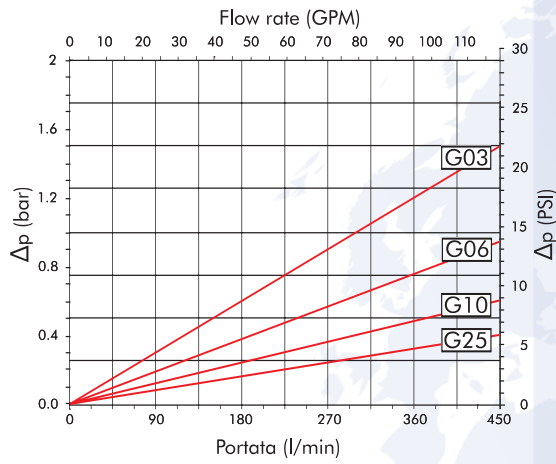
D-1-41---A D-1-51---A



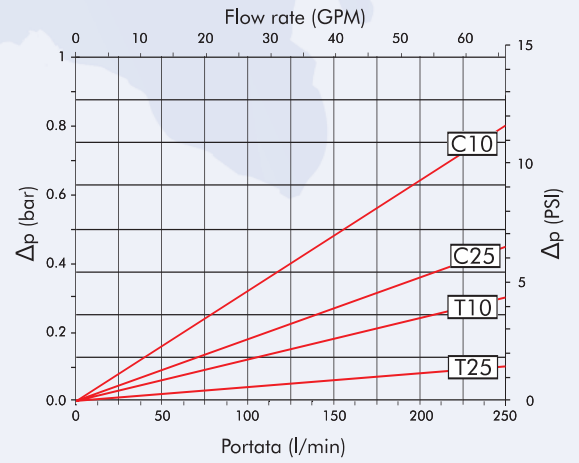
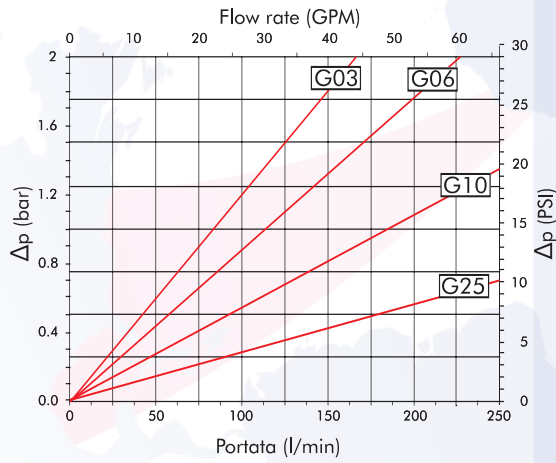
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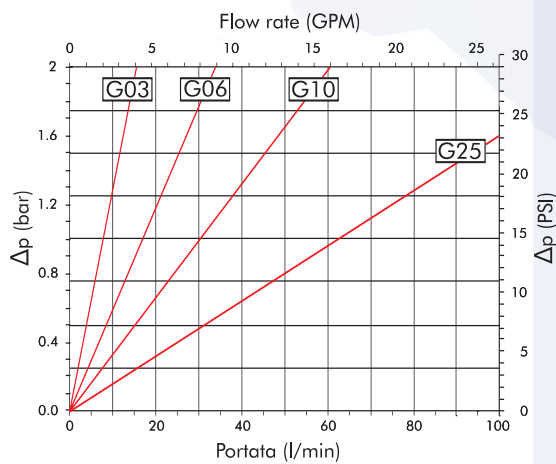
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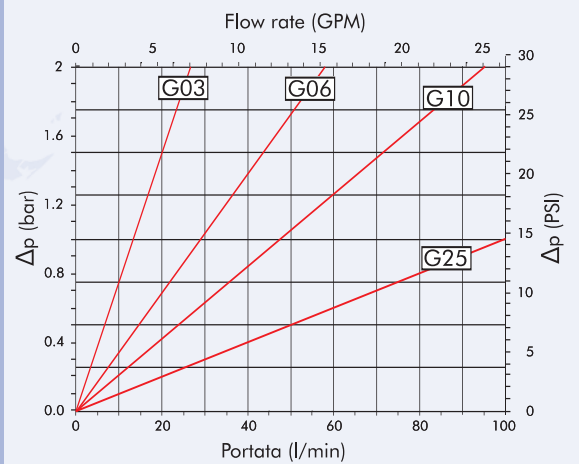
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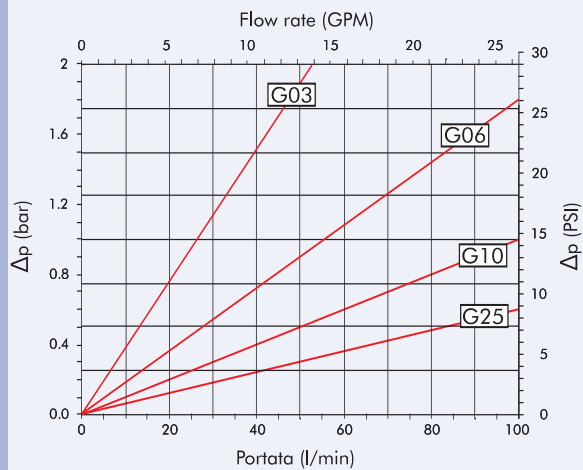
D-1-10---B



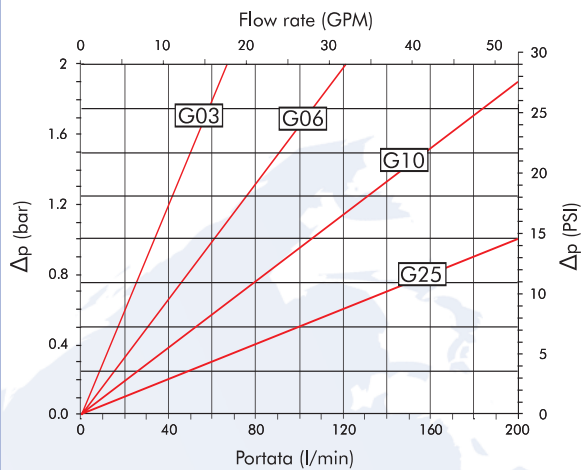
D-1-11---B



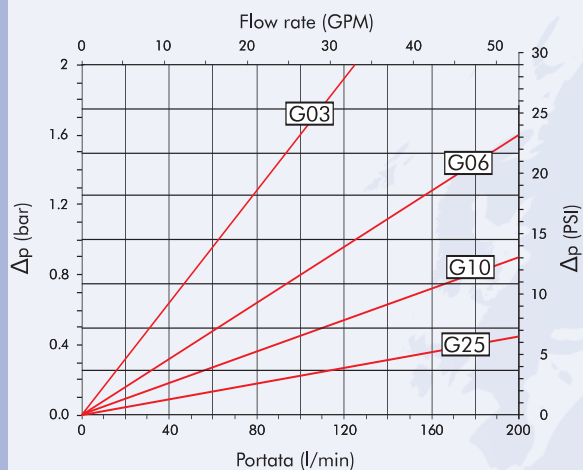
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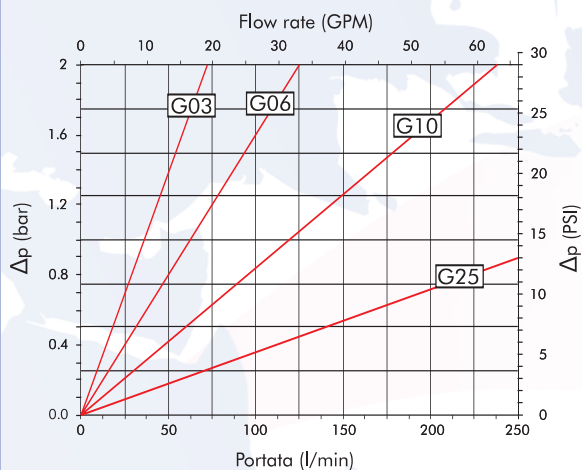
D-1-20---B D-1-30---B



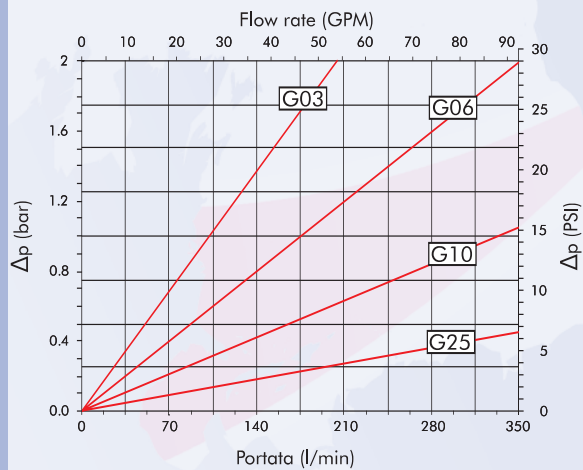
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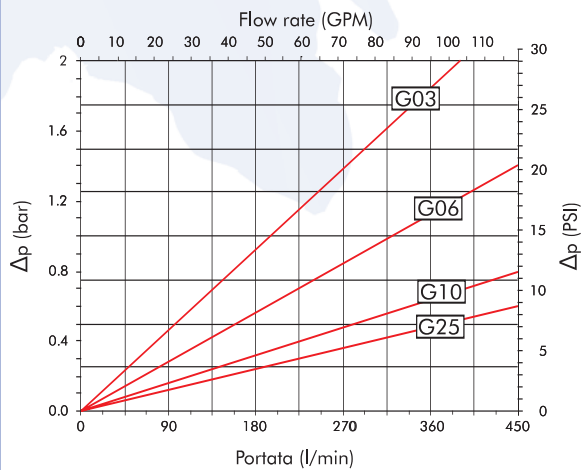
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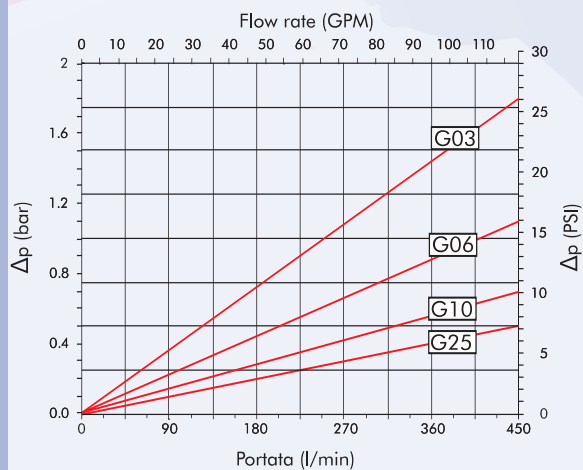
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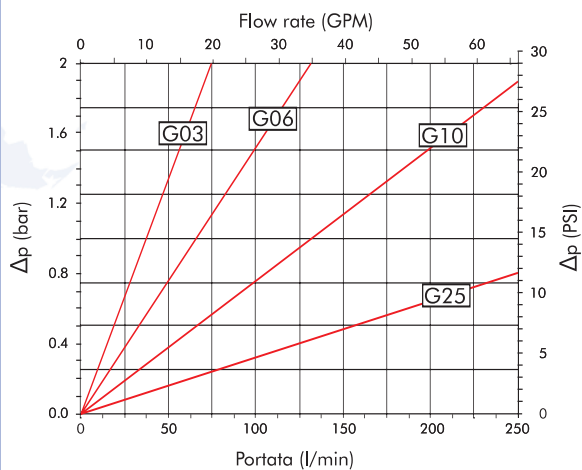
D-1-42---B D-1-52---B



D-1-43---B D-1-53---B



D-1-54---B



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