

 
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 l/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 µm

Carta 10,25 µm

Tela metallica 10,25 µm

Pressione di collasso:

Secondo ISO 2941: 21 Bar e 210 Bar



FILTER HOUSING

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 l/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: Filter assembly compatible with mineral oils and some synthetic or vegetable oils. With other fluid applications please contact Filtrec S.p.A.

FILTER ELEMENT

Filter media:

Microglass fiber 3,6,10,25 µm

Cellulose 10,25 µm

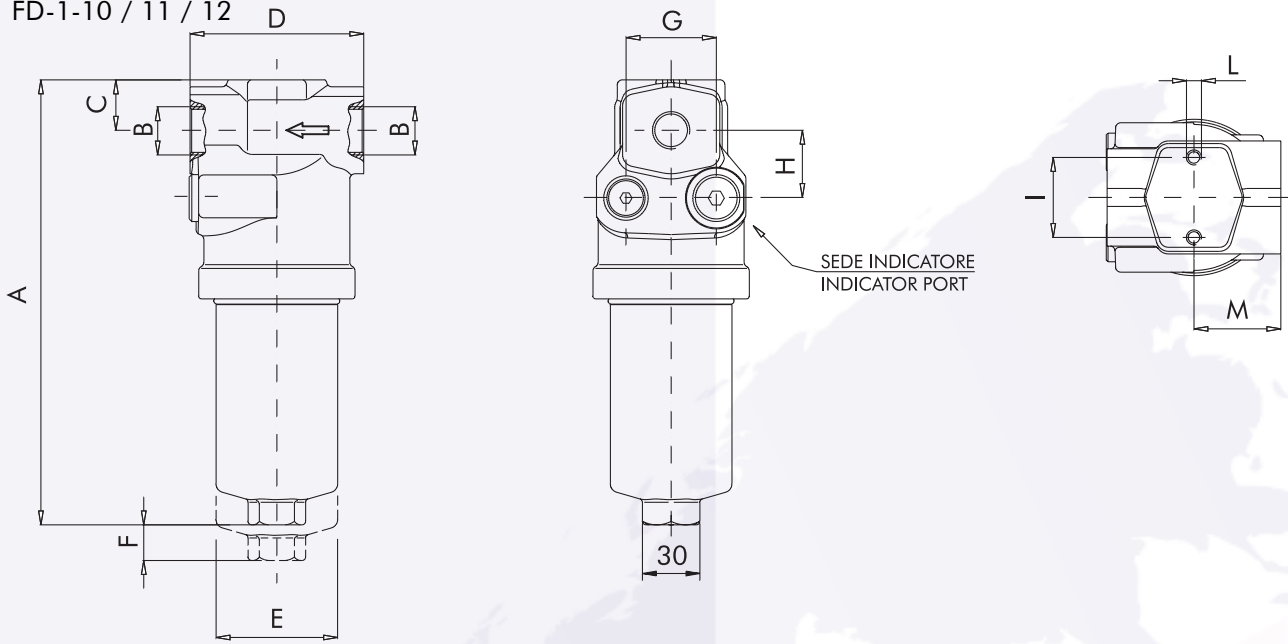
Wire mesh 10, 25 µm

Collapse pressure:

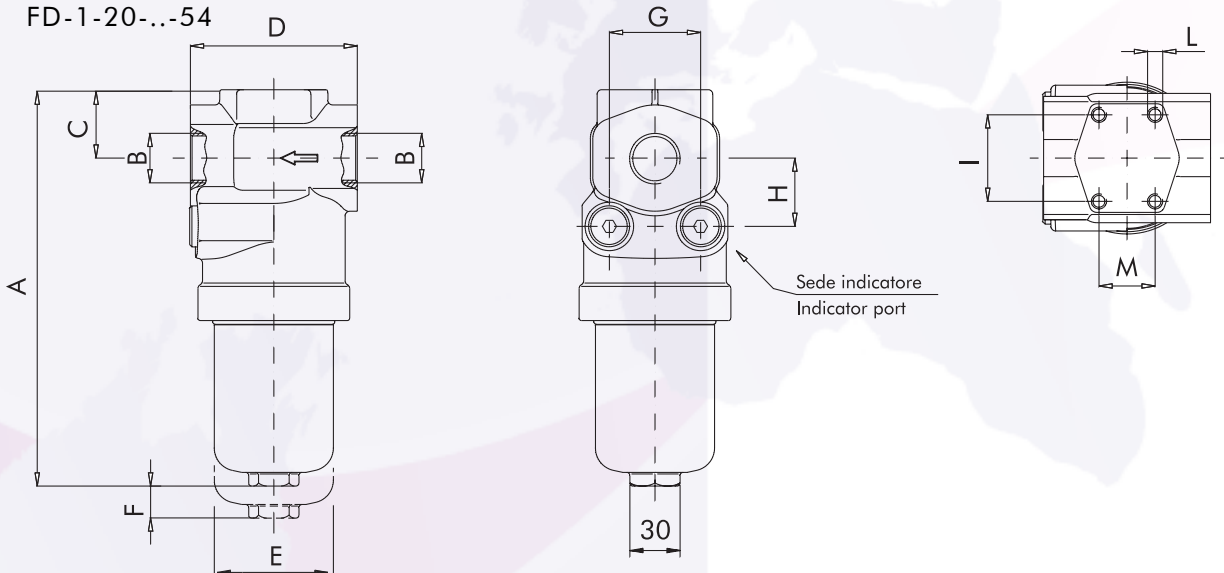
As per ISO 2941: 21 Bar (305 psi) and 210 Bar (3045 psi)

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	208	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	234	1/2" - 3/4" NPT	27	100	70	95	52	39	46		50	D-1-11
FD-1-12	331	3/4" - 1 1/16" SAE J514b	27	100	70	95	52	39	46		50	D-1-12
FD-1-20	250	3/4" - 1" BSP	39	110	78,5	100	60	45	57		37	D-1-20
FD-1-21	358	3/4" - 1" NPT	39	110	78,5	100	60	45	57		37	D-1-21
FD-1-30	250	3/4" - 1" SAE J518	39	110	78,5	100	60	45	57		37	D-1-30
FD-1-31	358	1 1/16" - 1 5/16" SAE J514b	39	110	78,5	100	60	45	57		37	D-1-31
FD-1-40	274	1" - 1 1/4" - 1 1/2" BSP	47	140	105	105	70	58	76		64	D-1-40
FD-1-41	399		47	140	105	105	70	58	76		64	D-1-41
FD-1-42	544		47	140	105	105	70	58	76		64	D-1-42
FD-1-43	689		1" - 1 1/4" - 1 1/2" NPT	47	140	105	105	70	58		76	64
FD-1-50	274	1 1/4" - 1 1/2" SAE J518	47	140	105	105	70	58	76		64	D-1-50
FD-1-51	399	1 5/8" - 1 7/8" SAE J514b	47	140	105	105	70	58	76	64	D-1-51	
FD-1-52	544		47	140	105	105	70	58	76	64	D-1-52	
FD-1-53	689		47	140	105	105	70	58	76	64	D-1-53	
FD-1-54	304		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	-----	
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	$\beta_{10} \geq 2$	Solo Δp 21 Bar
C25	carta trattata / resin impregnated cellulose	$\beta_{25} \geq 2$	Δp 21 Bar (305 psi) only
T60	tela metallica / wire mesh	-----	
T125	tela metallica / wire mesh	-----	

3) Collasso cartuccia - Element collapse

Codice - Code	Δp (Bar) - Δp (psi)
A	21Bar / 305 psi
B	210Bar / 3045 psi

4) Guarnizioni - Seals

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

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

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 element

D-1

30

G10

A

V

1*

2*

3*

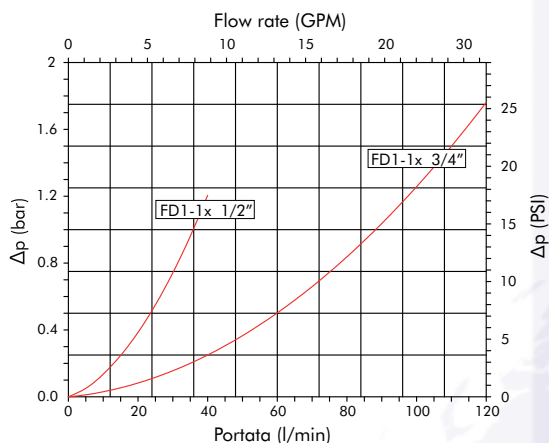
4*

Curve di portata - Pressure drop charts

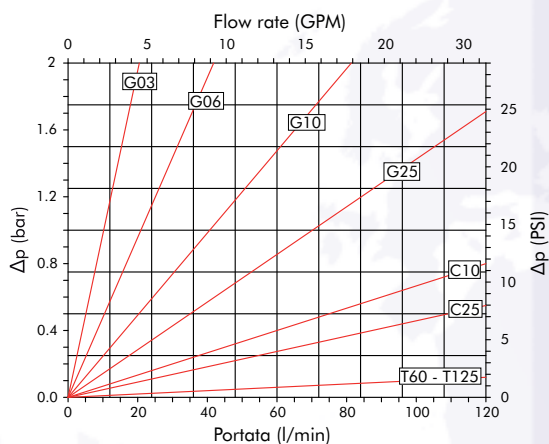
Le curve (secondo ISO 3968 classe B) sono ottenute con olio minerale avente viscosità di 30 cSt e densità di 0,86 Kg/dm³. Per viscosità e densità diverse i dati variano.

Pressure drop charts (as per ISO 3968 class B) are obtained using mineral oil with 30 cSt viscosity and 0,86 Kg/dm³ density. With different values of viscosity and density data may vary.

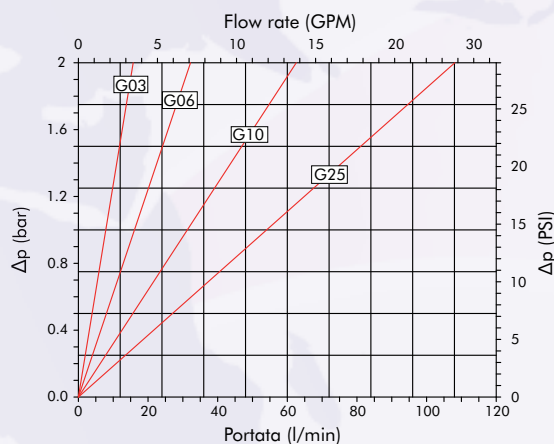
Filtro Housing



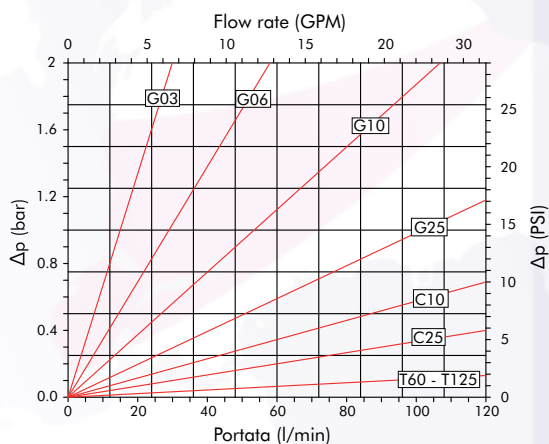
D-1-10-...-A



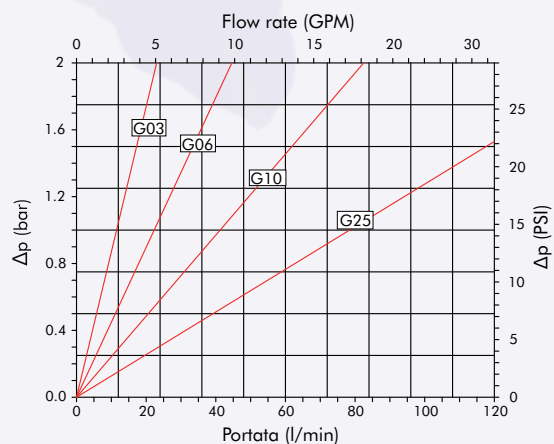
D-1-10-...-B



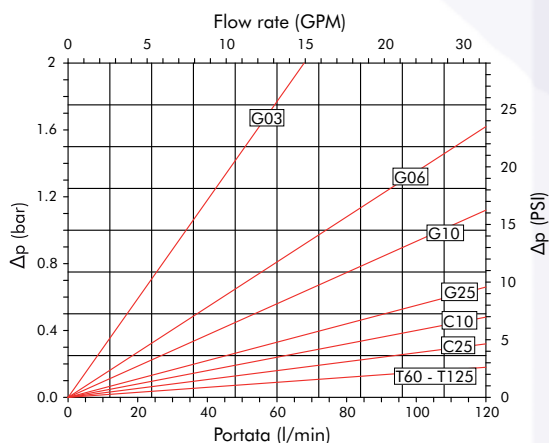
D-1-11-...-A



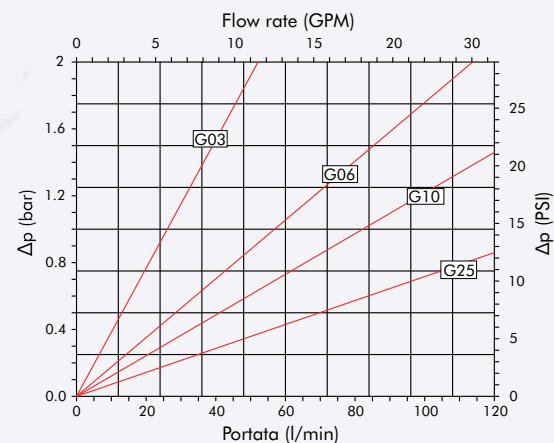
D-1-11-...-B



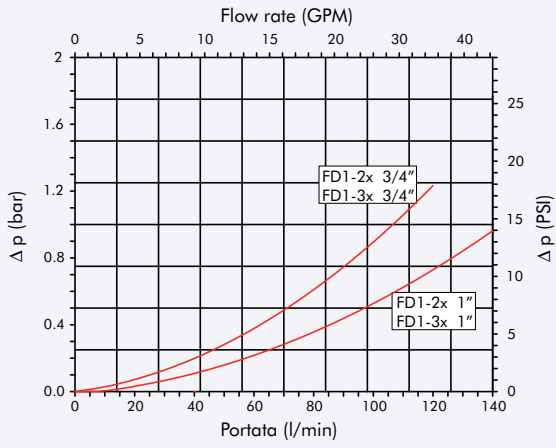
D-1-12-...-A



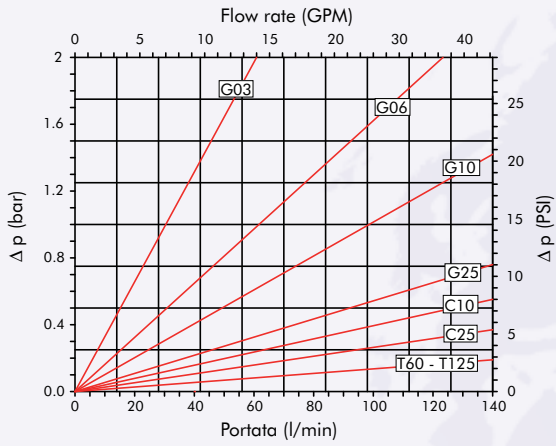
D-1-12-...-B



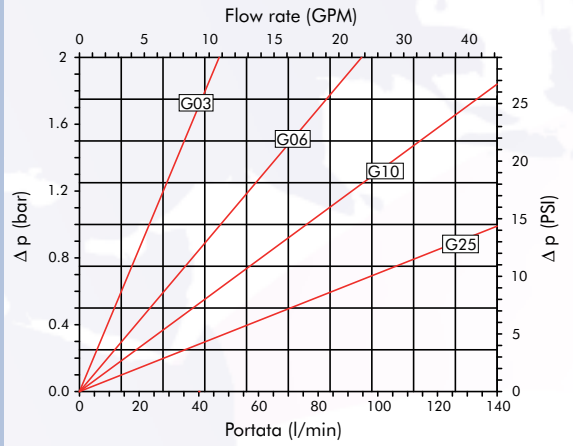
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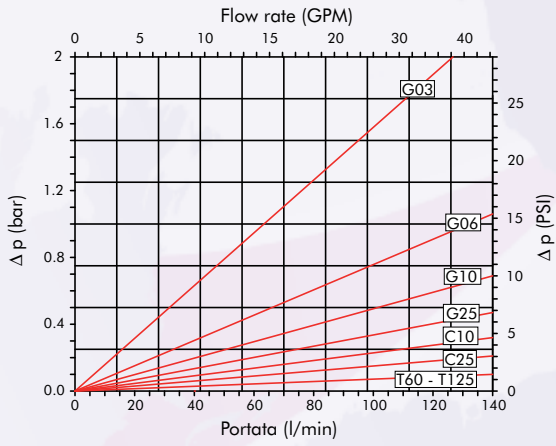
D-1-20/30...-A



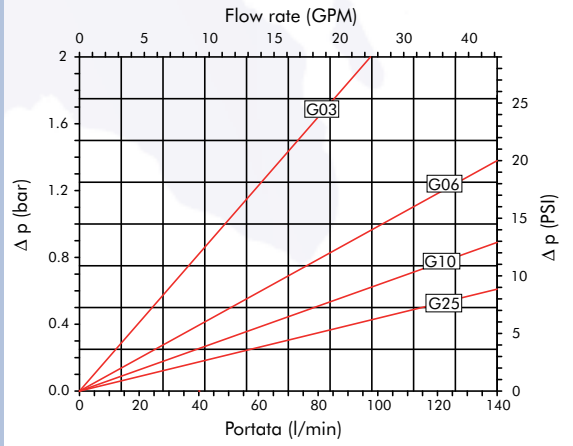
D-1-20/30...-B



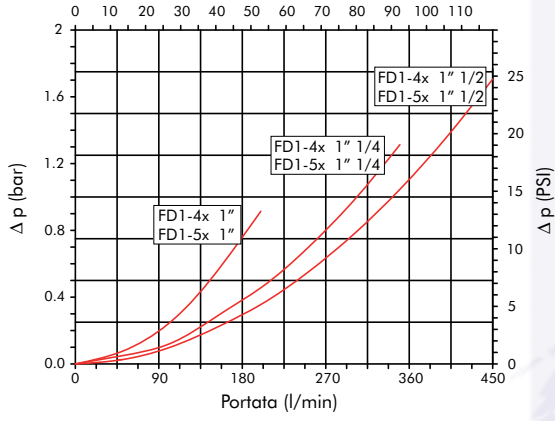
D-1-21/31...-A



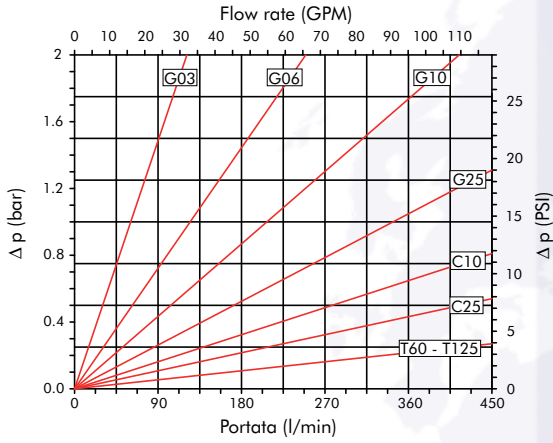
D-1-21/31...-B



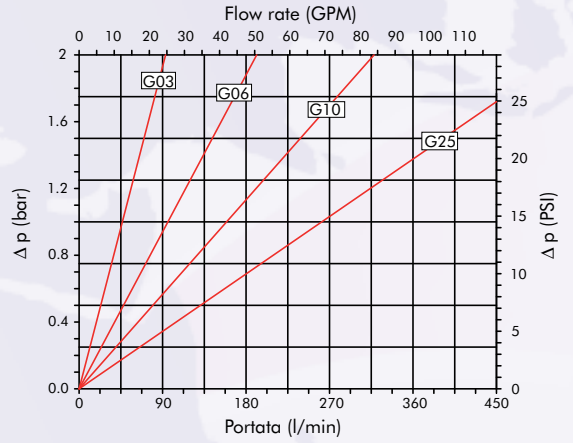
Filtro Housing



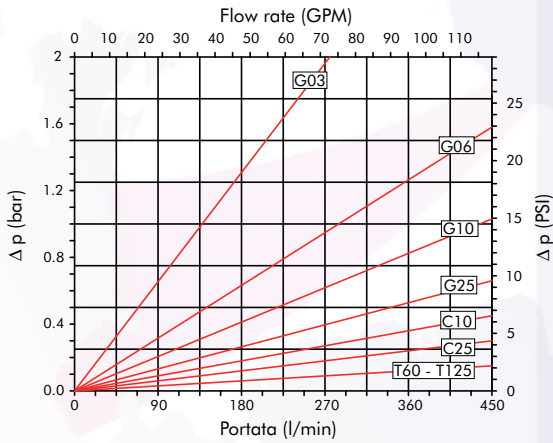
D-1-40---A D-1-50---A



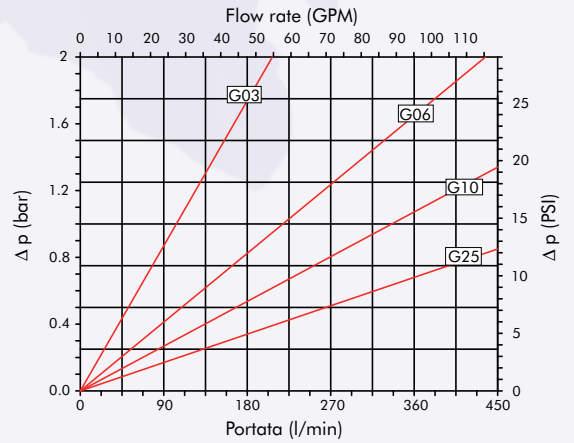
D-1-40---B D-1-50---B



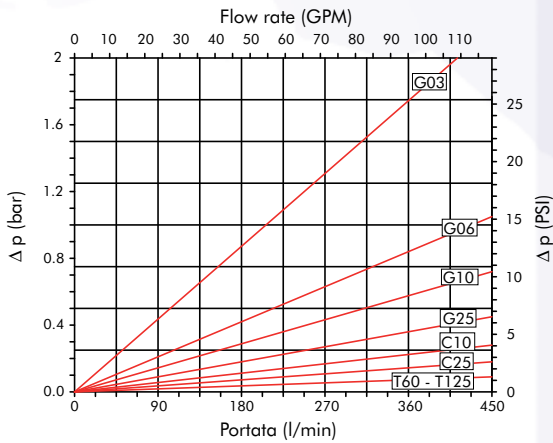
D-1-41---A D-1-51---A



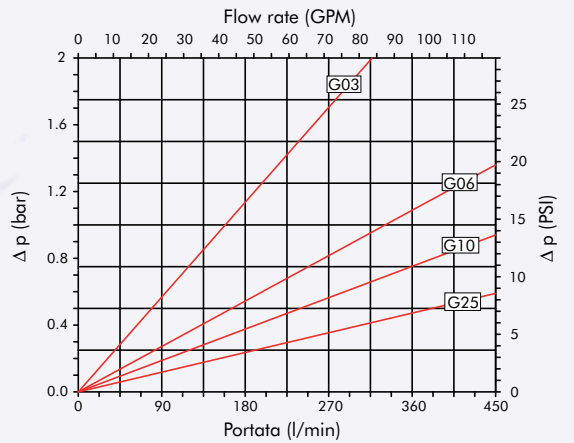
D-1-41---B D-1-51---B



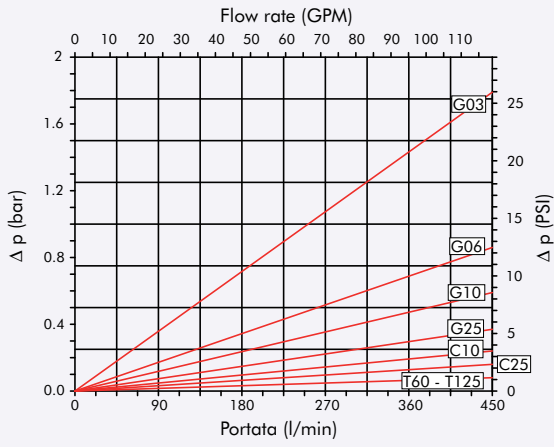
D-1-42---A D-1-52---A



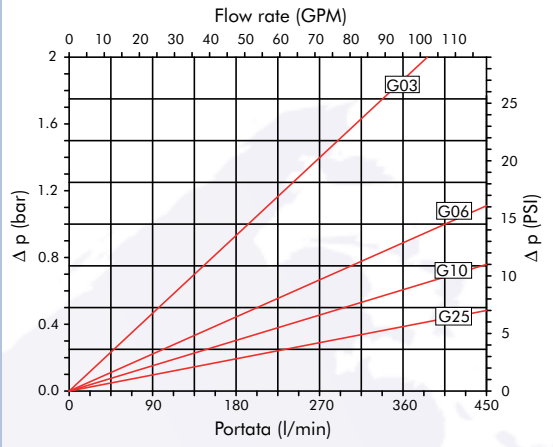
D-1-42---B D-1-52---B



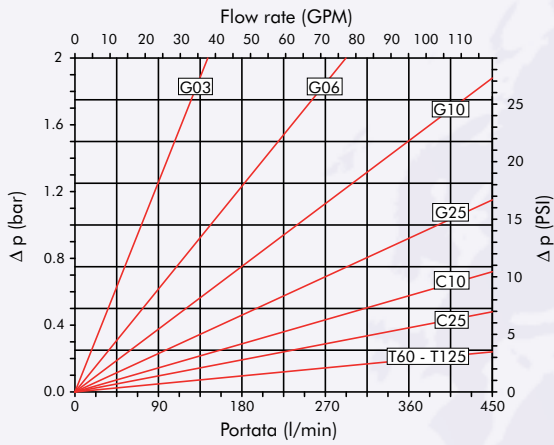
D-1-43-...-A D-1-53-...-A



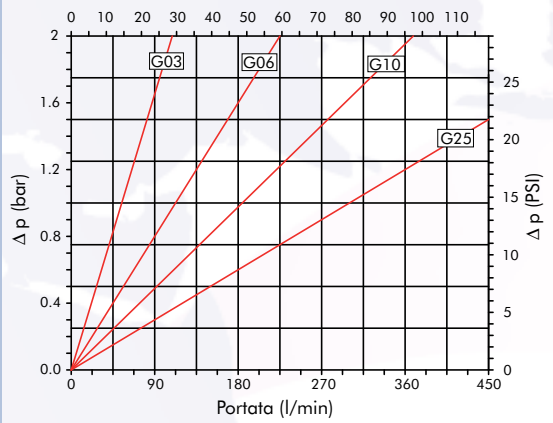
D-1-43-...-B D-1-53-...-B



D-1-54-...-A



D-1-54-...-B



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