



FILTRAZIONE IDRAULICA
HYDRAULIC FILTRATION



FILTREC[®]
Technical Filtration

serie
FR-1



Serie FR-1

Filtri sul ritorno Return filter



FILTER HOUSING

Description:
Max flow rate:
Max working pressure:
Test pressure:
Burst pressure:
Connection Ports:
Indicator:
Working temperature:
Materials:

Fluids compatibility:
 vegetable oils. With other fluid applications please contact Filtrec S.p.A.

FILTER ELEMENT

Filter media:

Collapse pressure:
By-pass:

Technical Information

Tank top mounting design return line with reusable or disposable element.
 600 l/min (158 gpm)

As per NFPA T 3.10.5.1: 8 Bar (116 psi)

As per NFPA T 3.10.5.1: 12 Bar (174 psi)

As per NFPA T 3.10.5.1: 16 Bar (232 psi)

BSP, NPT, SAE J514b

Visual and electrical.

-25°C +100°C (-13°F +212°F)

- Cover: aluminium
- Head: aluminium
- Bowl: nylon - carbon 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.

Microglass fiber 3,6,10,25 µm

Cellulose 10,25 µm

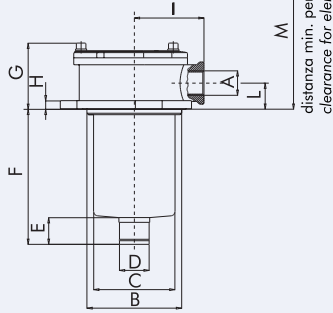
Wire mesh 60, 125 µm

As per ISO 2941: 10 Bar (145 psi)

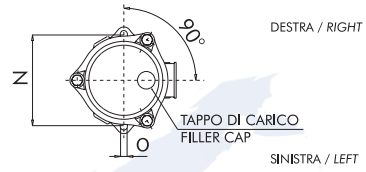
Return line 1,7 Bar (24.6 psi)

Informazioni dimensionali - Overall dimensions

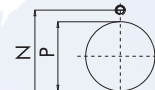
FR1-1-10 / 11 / 20 / 22 / 30



distanza min. per rimozione elemento
clearance for element removal

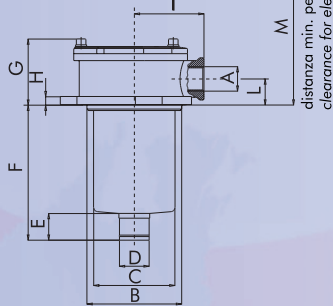


FORATURA SERBATOIO
TANK HOLE DIMENSIONS

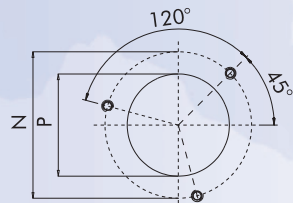
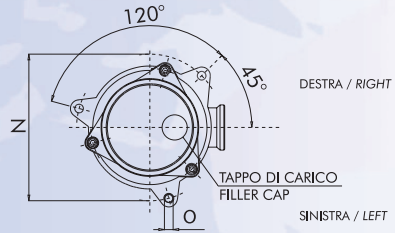


- 2 FORI M6 PER SERIE FR-1-10 / 11
- 2 FORI M8 PER SERIE FR-1-20 / 22 / 30
- 2 M6 THREAD HOLES FOR FR-1-10/11 SERIE
- 2 M8 THREAD HOLES FOR FR-1-20/22/30 SERIE

FR1-1-40 / 43

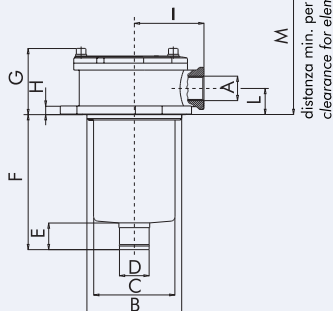


distanza min. per rimozione elemento
clearance for element removal

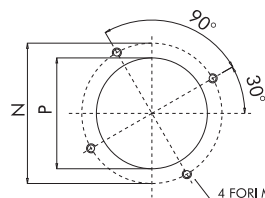
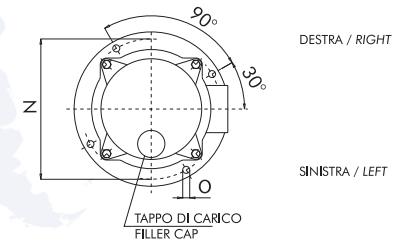


- 3 FORI M10
- 3 M10 THREAD HOLES

FR-1-1-50 / 51 / 60 / 64



distanza min. per rimozione elemento
clearance for element removal



- 4 FORI M10
- 4 M10 THREAD HOLES

1) Grandezza nominale - Nominal size

Codice - Code	A	B	C	D	E	F	G	H	I	L	M	N	O	P	Cart. ricambio - Element
FR-1-10	3/8" - 1/2" - 3/4" BSP	66,5	62	24	22	83	54	8	51	20,5	150	89±1	7	67,5	R-1-10
	3/8" - 1/2" - 3/4" NPT														
FR-1-11	9/16" - 18 UNF - SAE J514b	66,5	62	24	22	152	54	8	51	20,5	220	89±1	7	67,5	R-1-11
	3/4"-16 UNF - SAE J514b 1 1/16"-12 UN-SAE J514b														
FR-1-20	1/2" - 3/4" BSP	87,5	80	27,5	27	106	73	11	67	28,5	190	115±1	8,5	88,5	R-1-20
	1/2" - 3/4" NPT														
FR-1-22	3/4" - 1" BSP	87,5	80	27,5	27	151	73	11	67	28,5	230	115±1	8,5	88,5	R-1-22
	3/4" - 1" NPT														
FR-1-30	1 1/16"-12 UN-SAE J514b	87,5	80	40	29	232	73	11	67	28,5	310	115±1	8,5	88,5	R-1-30
	1 5/16"-12 UN-SAE J514b														
FR-1-40	1" - 1 1/4" - 1 1/2" BSP	129	111	40	36	230	87	11	95	35,5	320	175	11	130	R-1-40
	1" - 1 1/4" - 1 1/2" NPT														
FR-1-43	1 5/16"-12 UN-SAE J514b	129	111	40	36	273	87	11	95	35,5	360	175	11	130	R-1-43
	1 5/8"-12 UN-SAE J514b 1 7/8"-12 UN-SAE J514b														
FR-1-50	1 1/4" - 1 1/2" - 2" BSP	174	151	50	41	171	108	11	119	41	270	220	11	175	R-1-50
	1 1/4" - 1 1/2" - 2" NPT														
FR-1-51	1 5/8"-12 UN-SAE J514b	174	151	50	41	238	108	11	119	41	340	220	11	175	R-1-51
	1 7/8"-12 UN-SAE J514b														
FR-1-60	2 1/2"-12 UN-SAE J514b	174	151	64	41	238	108	11	119	41	340	220	11	175	R-1-60
	1 1/2" - 2" BSP														
FR-1-64	1 1/2" - 2" NPT	174	151	64	41	298	108	11	119	41	380	220	11	175	R-1-64
	1 7/8"-12 UN-SAE J514b 2 1/2"-12 UN-SAE J514b														

2) Grado di filtrazione - Filtration ratings

Codice - Code	Materiale - Media	Efficienza - Efficiency
0	senza cartuccia / no element	-----
G03	microfibra inorganica / microglass fiber	$\beta_{4,5 \mu\text{m} (c)} \geq 1000$
G06	microfibra inorganica / microglass fiber	$\beta_{7 \mu\text{m} (c)} \geq 1000$
G10	microfibra inorganica / microglass fiber	$\beta_{12 \mu\text{m} (c)} \geq 1000$
G25	microfibra inorganica / microglass fiber	$\beta_{27 \mu\text{m} (c)} \geq 1000$
C10	carta trattata / resin impregnated cellulose	$\beta_{10 \mu\text{m} (c)} \geq 2$
C25	carta trattata / resin impregnated cellulose	$\beta_{25 \mu\text{m} (c)} \geq 2$
T60	tela metallica / wire mesh	-----
T125	tela metallica / wire mesh	-----

3) Guarnizioni - Seals

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

4) Connesioni - Connection port

Codice - Code	Connessione - Connection
B2	3/8" BSP
B3	1/2" BSP
B4	3/4" BSP
B5	1" BSP
B6	1 1/4" BSP
B7	1 1/2" BSP
B8	2" BSP
N2	3/8" NPT
N3	1/2" NPT
N4	3/4" NPT
N5	1" NPT
N6	1 1/4" NPT
N7	1 1/2" NPT
N8	2" NPT
R2	9/16" - 18 UNF-2B SAE J514b
R3	3/4" - 16 UNF-2B SAE J514b
R4	1 1/16" - 12 UN-2B SAE J514b
R5	1 5/16" - 12 UN-2B SAE J514b
R6	1 5/8" - 12 UN-2B SAE J514b
R7	1 7/8" - 12 UN-2B SAE J514b
R8	2 1/2" - 12 UN-2B SAE J514b

5) Tappo di carico - Filler cap

Codice - Code	Tipo - Type
0	senza / without
T	con / with

6) Posizione indicatore Indicator position

Codice - Code	Posizione - Position
0	senza / without
C	coperchio / cover *
D	destra / right **
S	sinistra / left

* Non disponibile per FR-1-10 con tappo di carico

* Not available for FR-1-10 with filler cap

** Non disponibile per FR-1-1x ed FR-1-4x

** Not available for FR-1-1x and FR-1-4x

7) Indicatori - Indicators

Codice Code	Tipo indicatore - Indicator type	Taratura Setting
0	senza / without	
R1	manometro scala pressure gauge indicator scale	0÷10 Bar 0÷145 psi
R2	pressostato n.a. taratura pressure switch O.C.	1,3 Bar 18,85 psi O.C.
R3	pressostato n.c. taratura pressure switch C.C.	1,3 Bar 18,85 psi C.C.
R6	pressostato visivo visual pressure	1,2 Bar 17,4 Psi
R7	manovuotometro taratura pressure vacuum gauge	-1÷5 Bar -14,5÷72,5 Psi

Codici per l'ordinazione - Ordering information

Filtro completo
Filter assembly

FR-1

20

C10

B

V

B3

T

C

R1

1*

2*

3*

4*

5*

6*

7*

Cartuccia
Filter element

R-1

20

C10

B

V

1*

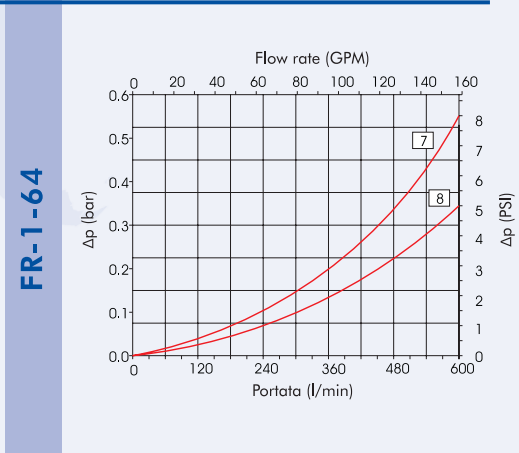
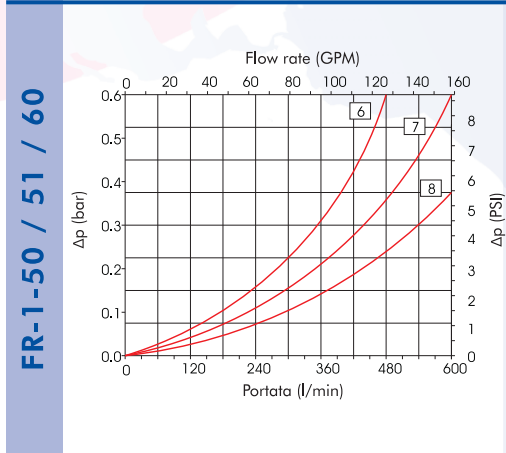
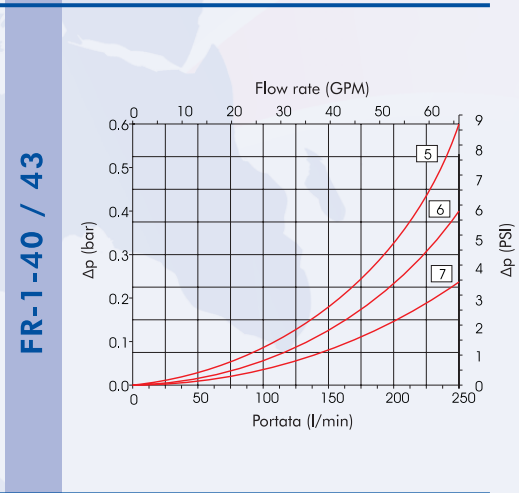
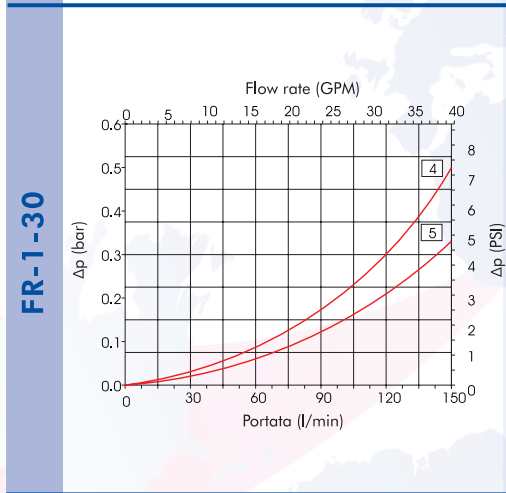
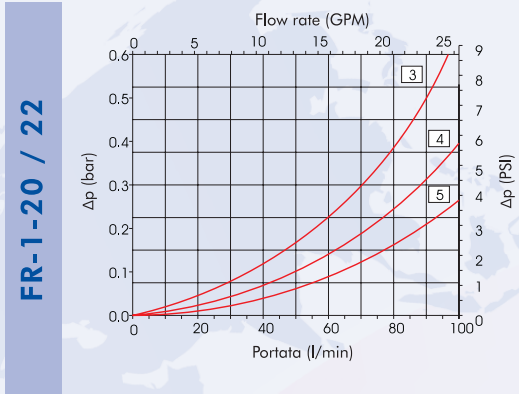
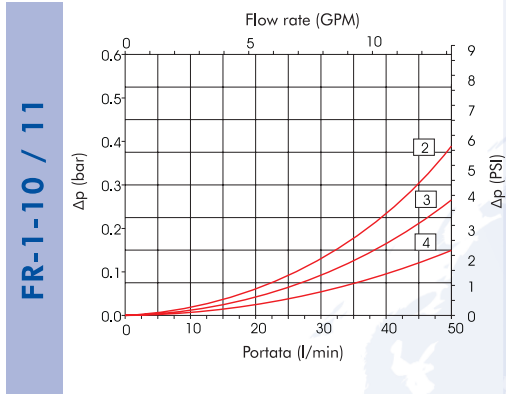
2*

3*

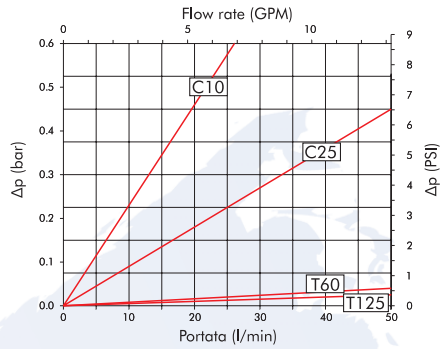
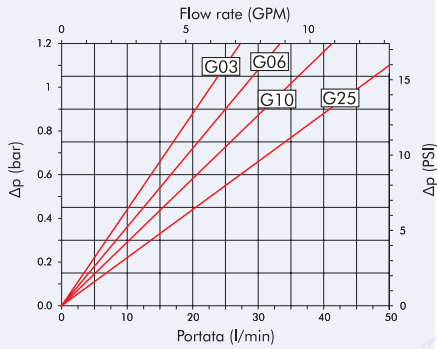
Curve di portata - Pressure drop charts

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.
Il numero relativo alla curva di portata è riferito all'attacco del filtro; es.: 2 indica attacco B2 o N2.

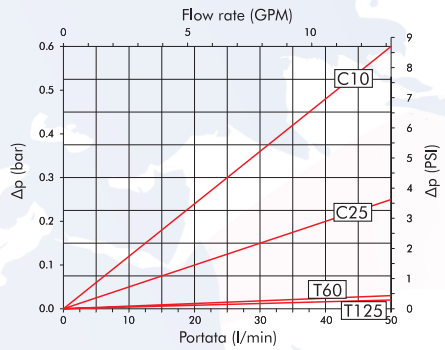
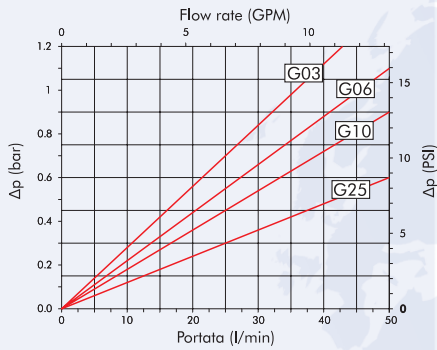
Pressure drop charts (as per ISO 3968 class B) are obtained using mineral oil with 30 cSt viscosity and 0,86 Kg/dm³ density.
With different values of viscosity and density data may vary.
The numbers indicate connection of the filters: i.e. 2 means B2 or N2 connections.



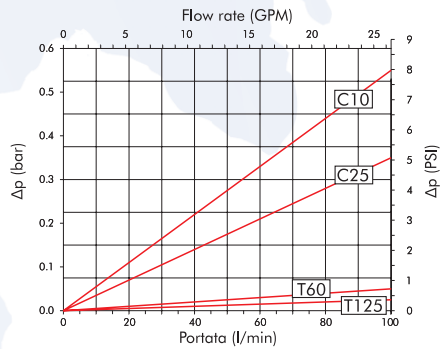
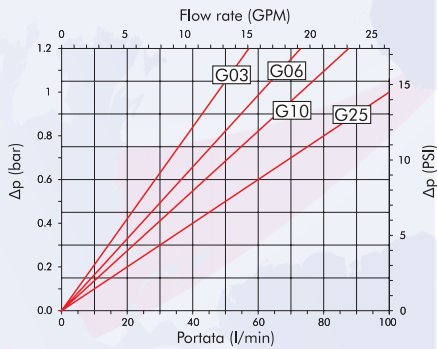
R-1-10



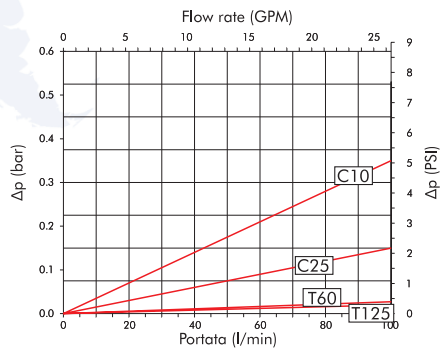
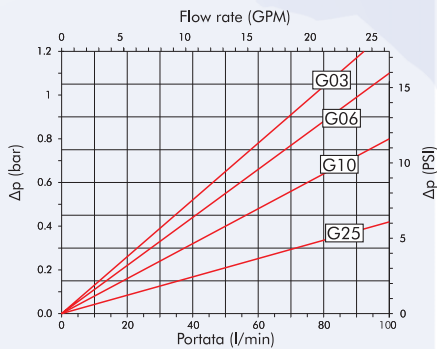
R-1-11



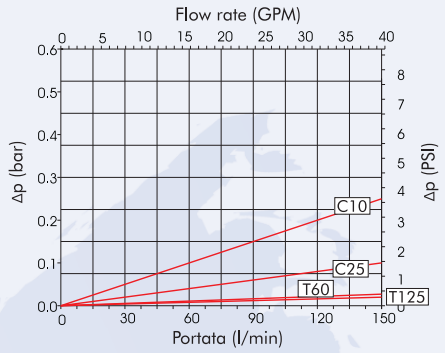
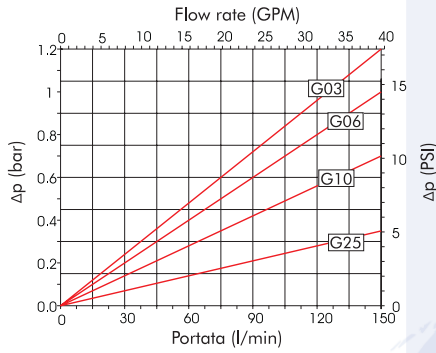
R-1-20



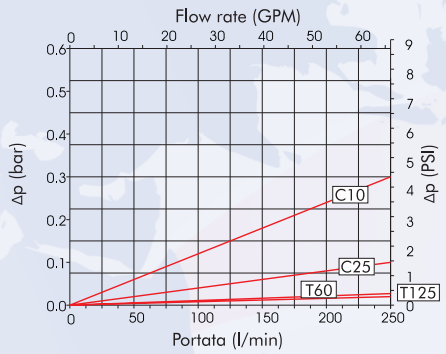
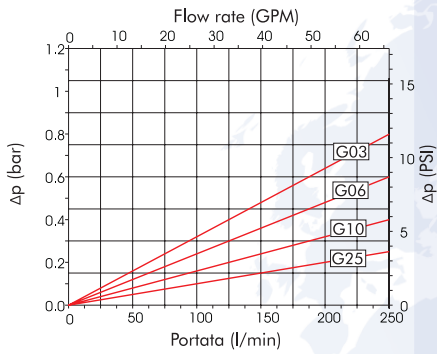
R-1-22



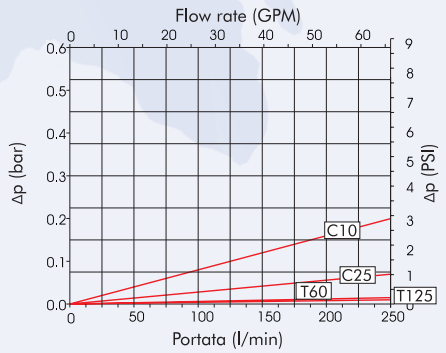
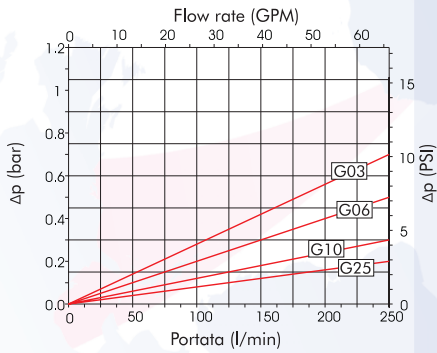
R-1-30



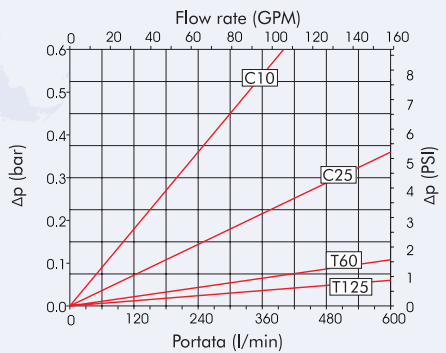
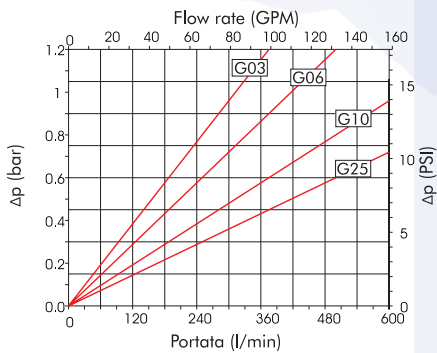
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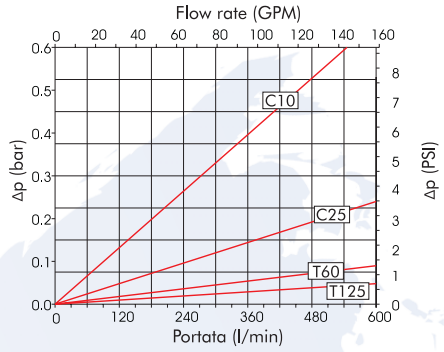
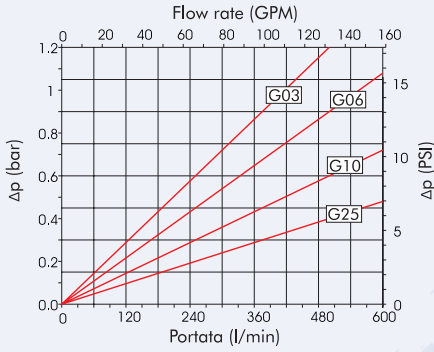
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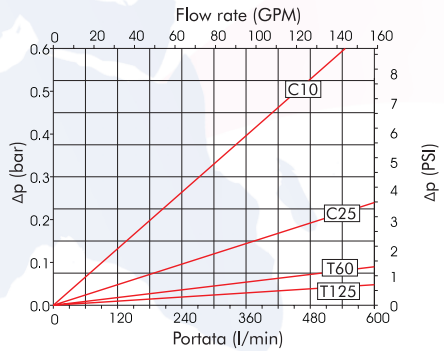
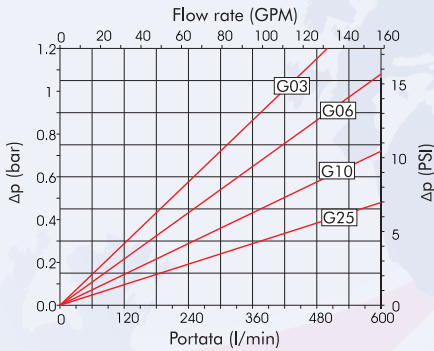
R-1-50



R-1-51



R-1-60



R-1-64

