



 **FILTRAZIONE DI PROCESSO**  
 **PROCESS FILTRATION**



**FILTREC**<sup>®</sup>  
Technical Filtration

serie  
**IFS-R9**





# Serie IFS-R9

## Filtri simplex in linea Inline simplex filter



### CORPO FILTRO

#### Descrizione:

Portata massima:

Pressione max di esercizio:

Conessioni:

Valvola by-pass :

Indicatore intasamento:

Temperatura di esercizio:

Materiali:

Davit:

### ELEMENTO FILTRANTE

Setto filtrante:

Pressione di collasso:



### FILTER HEAD

Description:

Max flow rate:

Max working pressure:

Port connections:

By-pass:

Indicator:

Working temperature:

Materials:

Davit:

### FILTER ELEMENT

Filter media:

Collapse pressure:

### Caratteristiche tecniche

Filtri a corpo singolo, elemento filtrante a cestello, senso di filtrazione interno-esterno

4500 lt/min

25 Bar

ANSI, DIN, UNI

Senza valvola by-pass

Differenziale visivo elettrico, tarature 2 Bar

-30°C +90°C

- Acciaio al carbonio, Acciaio inox aisi 304 - 304L - 316 - 316L
- Guarnizioni:      Buna-N      compatibile secondo ISO 2943 con oli minerali (HH-HL-HM-HR-HV-HG) emulsioni acquose (HFAE-HFAS)  
                         Viton      compatibile secondo ISO 2943 con fluidi sintetici (HS-HFDR-HFDD-HFDS)

Per flangia con peso superiore ai 15 Kg

Microfibra inorganica 3, 6, 10, 25  $\mu$

Carta 10, 25  $\mu$

Tela metallica 10, 25, 40, 50, 100, 250  $\mu$

Secondo ISO 2941: 10 Bar

### Technical Information

Single filter body, basket type elements, flow inside to outside

4500 lt/min (1190 gpm)

25 Bar (362.5 psi)

ANSI, DIN, UNI

No by-pass available

Differential visual electrical, 2 Bar (29 psi) setting

-30°C +90°C (-22°F +194°F)

- Body: carbon steel, stainless steel inox aisi 304 - 304L - 316 - 316L
- Seal:                Buna-N      compatible as per ISO 2943 with mineral oil (HH-HL-HM-HR-HV-HG) water oil emulsions (HFAE-HFAS)  
                         Viton      compatible as per ISO 2943 with synthetic fluid (HS-HFDR-HFDD-HFDS)

For flange of weight superior to 15 Kg.

Microglass fiber 3, 6, 10, 25  $\mu$

Cellulose 10, 25  $\mu$

Wire mesh 10, 25, 40, 50, 100, 250  $\mu$

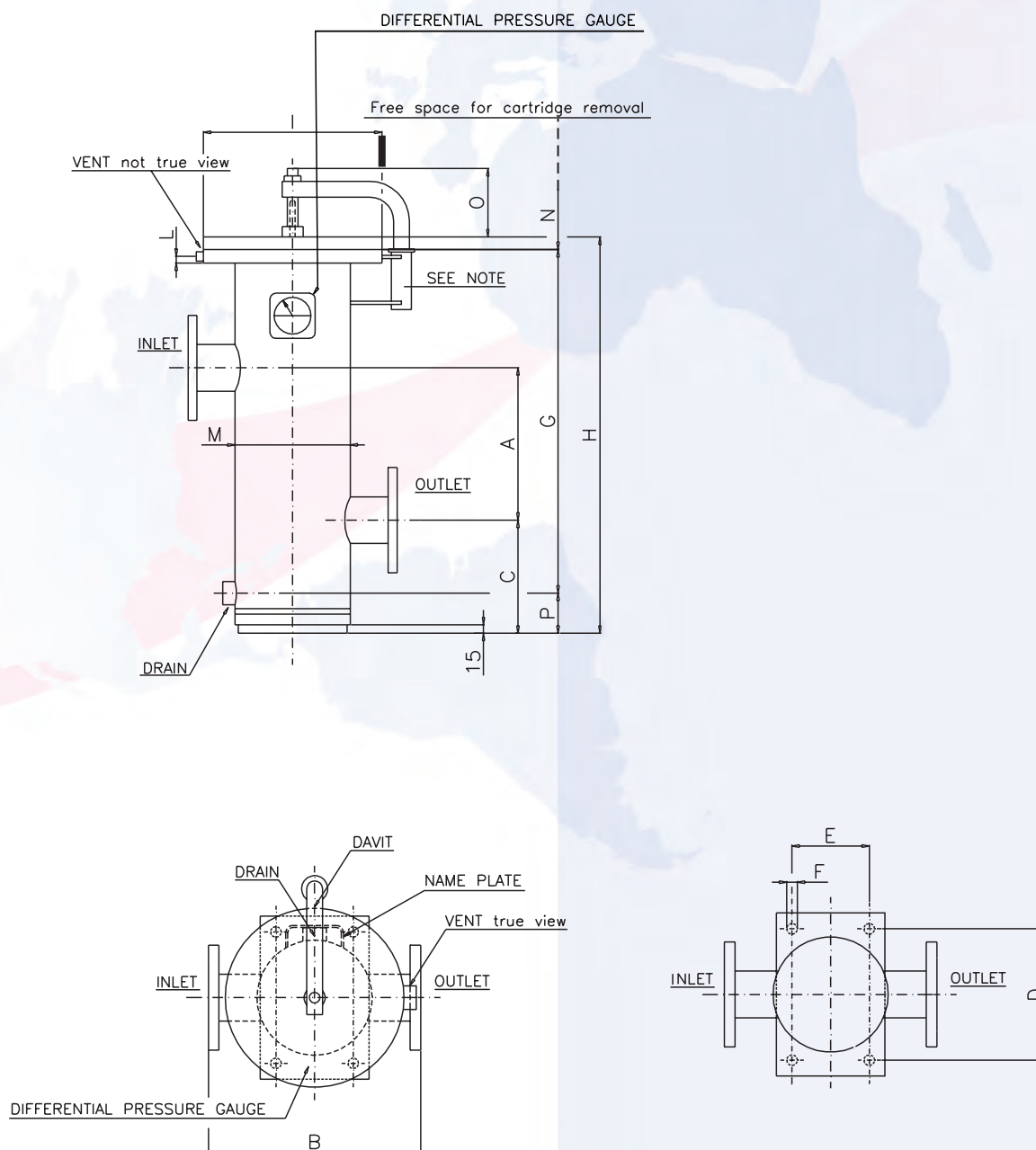
As per ISO 2941: 10 Bar (145 psi)

## Informazioni dimensionali *Overall dimensions*

|           | Dimensioni [mm]<br>Dimensions [mm] |      |     |     |     |     |      |      |     |    |     |      |     |     |
|-----------|------------------------------------|------|-----|-----|-----|-----|------|------|-----|----|-----|------|-----|-----|
|           | A                                  | B    | C   | D   | E   | Ø F | G    | H    | I   | L  | Ø M | N    | O   | P   |
| IFS-R9-10 | 450                                | 700  | 170 | 290 | 160 | 14  | 665  | 775  | 343 | 14 | 219 | 470  | 120 | 75  |
| IFS-R9-11 |                                    |      | 465 |     |     |     | 1035 | 1145 |     |    |     | 720  |     |     |
| IFS-R9-12 |                                    |      | 800 |     |     |     | 1435 | 1545 |     |    |     | 1020 |     |     |
| IFS-R9-20 | 600                                | 800  | 500 | 380 | 220 | 18  | 1035 | 1180 | 534 | 18 | 356 | 720  | 230 | 105 |
| IFS-R9-13 |                                    | 700  | 750 | 290 | 160 |     | 1435 | 1545 | 343 | 14 | 219 | 1020 | 120 | 75  |
| IFS-R9-30 |                                    | 1000 | 375 | 400 | 300 |     | 1150 | 1295 | 597 | 20 | 406 | 720  | 230 | 105 |
| IFS-R9-21 |                                    | 900  |     | 380 | 220 |     | 1250 | 1395 | 534 | 18 | 356 |      |     |     |
| IFS-R9-22 |                                    |      |     |     |     |     | 1650 | 1795 |     |    |     |      |     |     |
| IFS-R9-31 |                                    | 1000 | 375 | 400 | 300 |     | 1400 | 1545 | 597 | 20 | 406 | 720  |     |     |

Figura 1 - Filtri flangiati con ingresso/uscita disassati

Figure 1 - Foot mounted with offset flanges



## Dimensionamento del filtro *Filter size*

In funzione della portata e della connessione, selezionare la dimensione del corpo.

Le portate sono riferite a una cartuccia con 25  $\mu$  in microfibra ed il relativo Dn, con olio minerale avente densità di 0,86 kg/dm<sup>3</sup> e viscosità cinematica di 30 mm<sup>2</sup>/sec (cSt).

Le portate sono espresse in Lt./min e riferite ad una perdita di carico pari a Dp=0,35 bar. max. a filtro completo.

Select body dimensions according to flow rate and connection port type.

Flow rate is referred to a filter element with the following characteristics: 25  $\mu$  fiberglass with 0,86 kg/dm<sup>3</sup> density and 30 mm<sup>2</sup>/sec (cSt) viscosity mineral oil.

Flow rates are expressed in Lt./min and referred to a differential pressure Dp=0,35 bar max (5,075 psi max) in complete filter.

|     | Grandezza<br>Size |     |     |     |      |      |      |      |      |
|-----|-------------------|-----|-----|-----|------|------|------|------|------|
| Dn. | 10                | 11  | 12  | 20  | 13   | 30   | 21   | 22   | 31   |
| 2"  | 350               |     |     |     |      |      |      |      |      |
| 3"  | 500               |     |     |     |      |      |      |      |      |
|     |                   | 700 |     |     |      |      |      |      |      |
|     |                   |     | 800 |     |      |      |      |      |      |
|     |                   |     |     | 900 |      |      |      |      |      |
| 4"  |                   |     |     |     | 1300 |      |      |      |      |
|     |                   |     |     |     |      | 1500 |      |      |      |
| 5"  |                   |     |     |     |      |      | 2300 |      |      |
| 6"  |                   |     |     |     |      |      | 3200 |      |      |
|     |                   |     |     |     |      |      |      | 3500 |      |
| 8"  |                   |     |     |     |      |      |      |      | 4500 |

## Codici per l'ordinazione *Ordering information*

### 1) Grandezza nominale *Nominal size*

| Codice<br>Code | Schema<br>Figure | Connessioni <i>Connections</i> |          |          |          | Volume olio<br>Oil Volume (Lt) | Peso<br>Weight (Kg) | Nr. Cartucce<br>Nr. Cartridges | Cart. ricambio<br>Repl. element |  |  |  |
|----------------|------------------|--------------------------------|----------|----------|----------|--------------------------------|---------------------|--------------------------------|---------------------------------|--|--|--|
|                |                  | In/out                         | Vent     | Drain    | PDI      |                                |                     |                                |                                 |  |  |  |
| IFS-R9-10      | 1                | 2"                             | ½" NPT-F | ¾" NPT-F | ¼" NPT-F | 25                             | 90                  | 1                              | R9-10                           |  |  |  |
|                |                  |                                |          |          |          | 30                             | 110                 |                                |                                 |  |  |  |
| IFS-R9-11      |                  | 3"                             |          |          |          | 35                             | 128                 |                                | R9-11                           |  |  |  |
| IFS-R9-12      |                  |                                |          |          |          | 45                             | 135                 |                                | R9-12                           |  |  |  |
| IFS-R9-20      |                  |                                |          |          |          | 125                            | 200                 | 2                              | R9-11                           |  |  |  |
| IFS-R9-13      |                  | 4"                             |          |          |          | 45                             | 165                 | 1                              | R9-12                           |  |  |  |
| IFS-R9-30      |                  |                                |          |          |          | 160                            | 325                 | 3                              | R9-11                           |  |  |  |
| IFS-R9-21      |                  | 5"                             |          |          |          | 145                            | 210                 | 2                              | R9-11                           |  |  |  |
|                |                  |                                |          |          |          | 135                            | 210                 |                                |                                 |  |  |  |
| IFS-R9-22      |                  | 6"                             |          |          |          | 140                            | 275                 |                                | R9-12                           |  |  |  |
| IFS-R9-31      |                  | 8"                             |          |          |          | 150                            | 225                 | 3                              | R9-11                           |  |  |  |

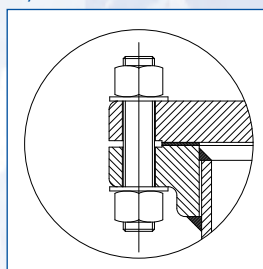
## 2) Grado di filtrazione *Filtration ratings*

| Codice<br>Code                           | Materiale<br>Media                            | Efficienza<br>Efficiency                                                   |
|------------------------------------------|-----------------------------------------------|----------------------------------------------------------------------------|
| 0                                        | senza cartuccia<br>no element                 | -----                                                                      |
| G03<br>G06<br>G10<br>G25                 | microfibra inorganica<br>microglass fiber     | $b_3 \geq 200$<br>$b_6 \geq 200$<br>$b_{10} \geq 200$<br>$b_{25} \geq 200$ |
| C10<br>C25                               | carta trattata<br>resin impregnated cellulose | $b_{10} \geq 2$<br>$b_{25} \geq 2$                                         |
| T10<br>T25<br>T40<br>T50<br>T100<br>T250 | tela metallica<br>wire mesh                   | -----<br>-----<br>-----<br>-----<br>-----<br>-----                         |

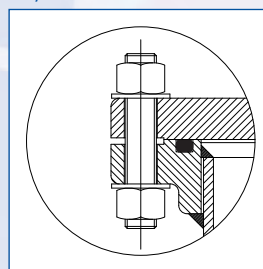
## 3) Guarnizioni *Seals*

| Codice<br>Code | Tipo<br>Type |
|----------------|--------------|
| A              | Abestos free |
| ---            | NBR          |
| T              | Teflon       |
| V              | Viton        |

A / T



V / NBR



## 4) Dimensione attacchi *Connection port size*

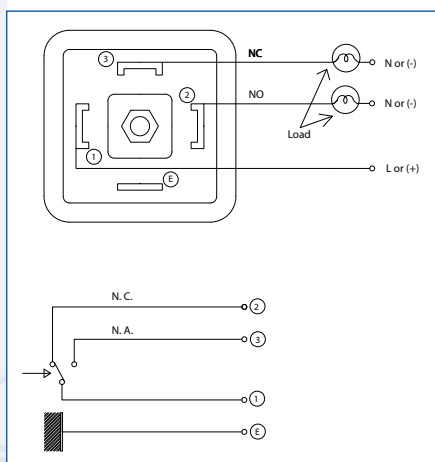
| Codice<br>Code | Attacchi<br>Connection |
|----------------|------------------------|
| 2              | 2"                     |
| 3              | 3"                     |
| 4              | 4"                     |
| 5              | 5"                     |
| 6              | 6"                     |
| 8              | 8"                     |

## 5) Tipo attacchi *Connection port type*

| Codice<br>Code | Attacchi<br>Connection port type |
|----------------|----------------------------------|
| FU 10          | Flangia PN. 10 UNI EN 1092-1     |
| FU 16          | Flangia PN. 16 UNI EN 1092-1     |
| FA 150         | Flangia ANSI 150 S.O.R.F.        |
| FA 300         | Flangia ANSI 300 S.O.R.F.        |
| FD 16          | Flangia PN. 16 DIN 2633          |
| FD 25          | Flangia PN. 25 DIN 2634          |

## 6) Indicatori *Indicators*

| Codice<br>Code | Tipo indicatore<br>Indicator type                                                   | Taratura<br>Setting |
|----------------|-------------------------------------------------------------------------------------|---------------------|
| 0              | senza<br>without                                                                    | ----                |
| Z10            | manometro differenziale<br>visivo elettrico<br>differential electrical visual gauge | 2 Bar<br>29 psi     |



**Attacchi degli interruttori e  
connessioni DIN**  
Reed switches & DIN plug  
connection

**Specifiche Tecniche**  
Technical Specific.

**Voltaggio Voltage 230V**  
**Amperaggio Amperage 10A**

**Tipo SPDT**  
Type SPDT

**28 VAC 0.25 A max**  
**28 VDC 3 W max**

**Connettore DIN 43650**  
DIN Connector 43650

## 7) Materiale corpo *Housing material*

| Codice<br>Code | Materiale<br>Material                     |
|----------------|-------------------------------------------|
| CS             | Acciaio al carbonio<br>Carbon steel       |
| SS             | Acciaio inox aisi 304<br>Stainless steel  |
| SSX            | Acciaio inox aisi 316<br>Stainless steel  |
| SSL            | Acciaio inox aisi 304L<br>Stainless steel |
| SSXL           | Acciaio inox aisi 316L<br>Stainless steel |

## Codici per l'ordinazione *Ordering information*

Filtro completo  
Filter assembly

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|    |     |    |    |      |     |    |
|----|-----|----|----|------|-----|----|
| 10 | G10 | V  | 3  | FD16 | Z10 | CS |
| 1* | 2*  | 3* | 4* | 5*   | 6*  | 7* |

Cartuccia  
Filter element

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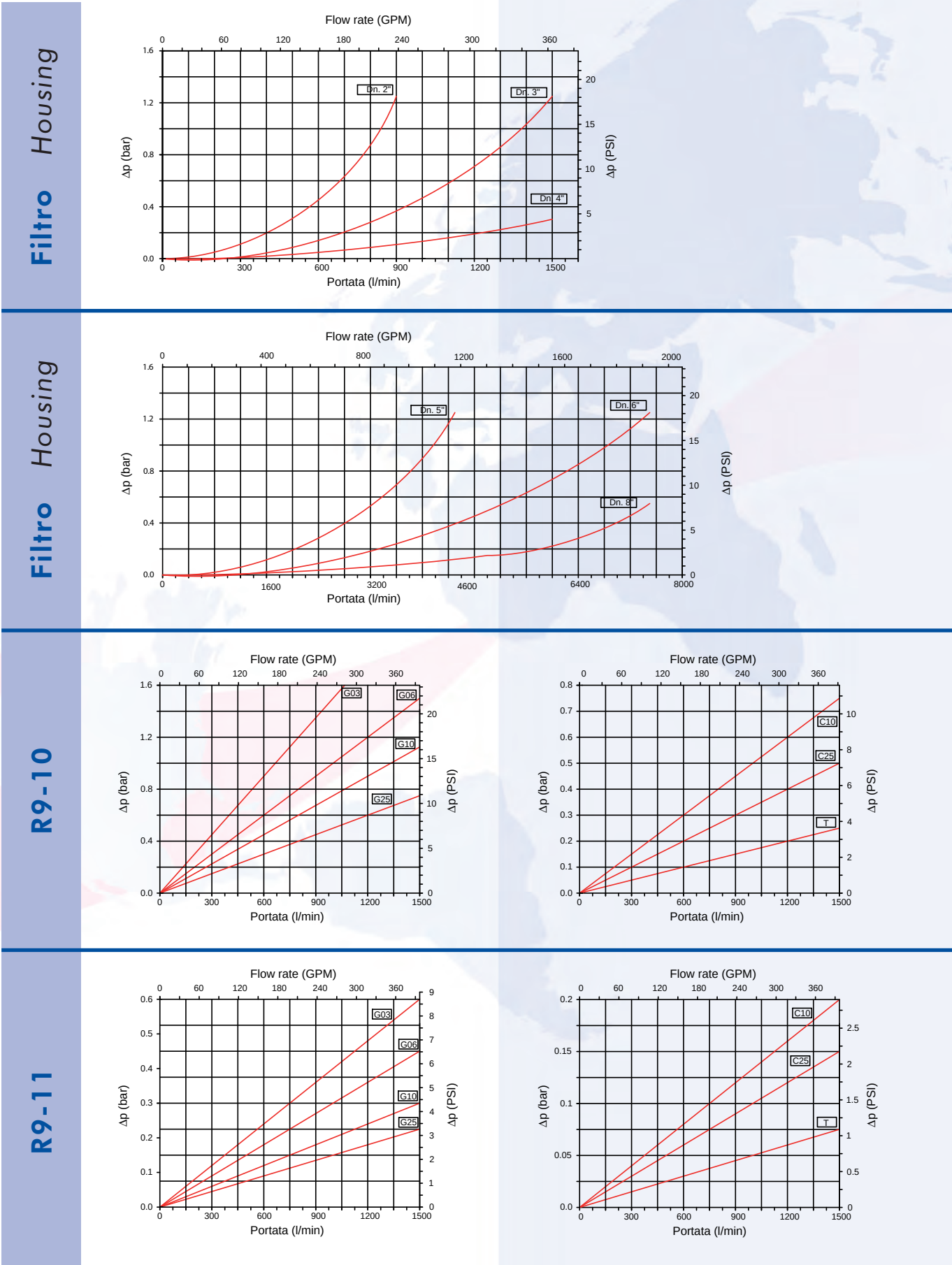
|    |     |    |
|----|-----|----|
| 10 | G10 | V  |
| 1* | 2*  | 3* |



# Curve di portata Pressure drop charts

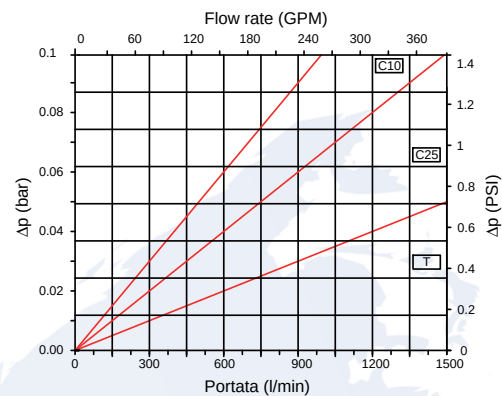
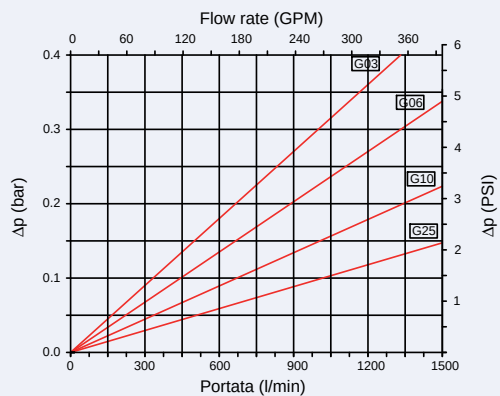
Le curve (secondo ISO 3968 classe B) sono ottenute con olio minerale avente viscosità di 30 cSt e densità di 0,86 Kg/dm<sup>3</sup>  
Per viscosità e densità diverse i dati variano, in prima approssimazione proporzionalmente.

Pressure drop charts as per ISO 3968 class B. 30 cSt viscosity and 0,86 Kg/dm<sup>3</sup> density mineral oil.





# R9-12



## NOTE - NOTES





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