06

Filtri - Filters

SERIE **AFI** SERIES

Filtri in aspirazione e sul ritorno
Suction or return filters

Con il fine di migliorare costantemente la qualità dei nostri prodotti, ci riserviamo il diritto di modificarne in qualsiasi momento le caratteristiche senza preavviso.
È responsabilità della spettabile clientela la costante verifica dei dati contenuti nei cataloghi.
Questo catalogo annulla e sostituisce i precedenti.

In order to constantly improve our products quality, we take the right to make changes to the catalogues at any time without notice.
Customers have the responsibility to continuously check all the information in the catalogues.
This catalogue cancels and replaces the previous ones.

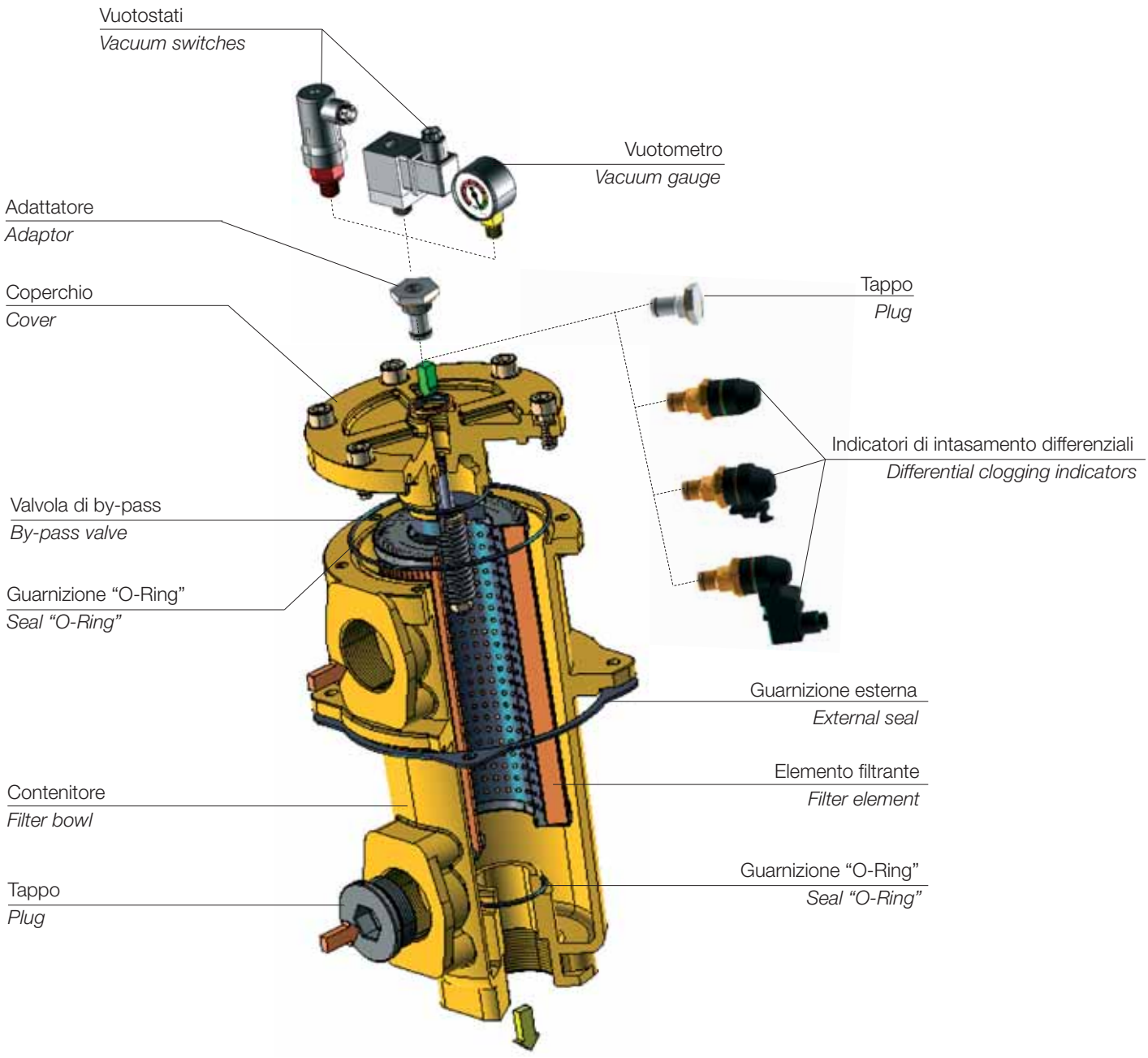
Versione - Version 01/022009

FILTRI IN ASPIRAZIONE E SUL RITORNO SERIE AFI 2.000.000 Pa (20 BAR)

SUCTION AND RETURN FILTER SERIES AFI 2.000.000 Pa (20 BAR)

AFI è la serie di filtri particolarmente indicata per applicazioni industriali su linee di ritorno e aspirazione.
Funzionando ad una pressione massima di 2.000.000 Pa (20 bar), trovano impiego anche su linee di mandata a bassa pressione.
Materiali e tecnologie avanzate, impiegate per la costruzione degli elementi filtranti, consentono elevate prestazioni ed efficienza conformi alle norme ISO vigenti relative alla qualità degli stessi elementi filtranti.

The AFI series is particulary suitable for industrial use, to be installed on return and suction lines.
Operating at a maximum pressure of 2.000.000 Pa (20 bar), they can be used also on low pressure delivery lines.
Materials and advanced technology used in the construction of filtering elements, guarantee a high level of performance and efficiency completely in conformity with the ISO regulations at present in force.



LA SERIE DI FILTRI AFI È CONFORME ALLE SEGUENTI NORME ISO:

-ISO 2941 - Oleoidraulica - Elementi filtranti - Verifica della resistenza allo schiacciamento o allo scoppio

-ISO 2942 - Oleoidraulica - Elementi filtranti - Verifica dell'integrità di fabbricazione e determinazione del punto di prima bolla

-ISO 2943 - Oleoidraulica - Elementi filtranti - Verifica della compatibilità dei materiali con i fluidi

-ISO 3723 - Oleoidraulica - Elementi filtranti - Verifica della resistenza alla deformazione assiale

-ISO 3724 - Oleoidraulica - Elementi filtranti - Verifica della resistenza a fatica per variazioni di portata

-ISO 3968 - Oleoidraulica - Filtri - Determinazione della perdita di carico in funzione della portata

-ISO 16889 - Oleoidraulica - Filtri - Metodo Multi-pass valutazione delle caratteristiche di filtrazione di un elemento filtrante

AFI FILTER SERIES IS SUITABLE TO THE FOLLOWING ISO STANDARDS:

-ISO 2941 - Hydraulic fluid power - Filter elements Verification of collapse / burst resistance

-ISO 2942 - Hydraulic fluid power - Filter elements Verification of fabrication integrity and determination of the first bubble point

-ISO 2943 - Hydraulic fluid power - Filter elements Verification of material compatibility with fluids

-ISO 3723 - Hydraulic fluid power - Filter elements Method for end load test

-ISO 3724 - Hydraulic fluid power - Filter elements Verification of flow fatigue characteristics

-ISO 3968 - Hydraulic fluid power - Filters - Evaluation of pressure drop versus flow characteristics

-ISO 16889 - Hydraulic fluid power - Filters - Multi-pass method for evaluating filtration performance of a filter element

MATERIALI (elementi filtranti)

Fondelli	Lamiera zincata
Tubo di sostegno	Lamiera zincata
Reti di supporto	Acciaio galvanizzato con rivestimento epossidico

MATERIALS (filter elements)

End caps	Galvanized sheet iron
Support tube	Galvanized sheet iron
Support mesh	Galvanized steel with epox coating

SETTI FILTRANTI

FILTRATION MATERIALS

Elementi Filtranti Filter elements	Descrizione Description	Materiale Material	Grado di filtrazione Filtration (µm)	Rapporto ß / ß Ratio	
				ISO 4572 ßx≥200	ISO 16889 ßx(c)≥200
C10	Carta trattata / Treated paper	Fibre di cellulosa / Cellulose fibre	10	-	-
C25	Carta trattata / Treated paper	Fibre di cellulosa / Cellulose fibre	25	-	-
F03	Fibra inorganica / Inorganic fibre	Fibra di vetro / Glass fibre	3	3	5
F06	Fibra inorganica / Inorganic fibre	Fibra di vetro / Glass fibre	6	6	6
F10	Fibra inorganica / Inorganic fibre	Fibra di vetro / Glass fibre	10	10	9
F25	Fibra inorganica / Inorganic fibre	Fibra di vetro / Glass fibre	25	25	20
R60	Rete a maglia quadra / Square mesh	Aisi 304	60	-	-
R90	Rete a maglia quadra / Square mesh	Aisi 304	90	-	-
R125	Rete a maglia quadra / Square mesh	Aisi 304	125	-	-
R250	Rete a maglia quadra / Square mesh	Aisi 304	250	-	-

SUPERFICI UTILI (cm^2) ELEMENTI FILTRANTI

FILTRATION AREA (cm^2) FILTER ELEMENTS

Elementi filtranti / Filter elements	CFI025	CFI040	CFI100	CFI250	CFI630	CFI850
C10 - C25	500	890	1380	4650	7080	14930
F03 - F06 - F10 - F25	380	820	1260	3780	7080	11150
R60 - R90 - R125 - R250	280	450	700	1860	3620	15700

MATERIALI (corpo)

Contenitore	AFI025/040/100/250/630: Alluminio AFI850: Acciaio
Coperchio	AFI025/040/100/250/630: Alluminio AFI850: Acciaio
Guarnizioni	N: Nitrilica (Buna-N) V: Fluoroelastomero (viton)
Valvola di by-pass	Materiale plastico
Indicatore	Ottone

MATERIALS (housing)

Housing	AFI025/040/100/250/630: Aluminium AFI850: Steel
Cover	AFI025/040/100/250/630: Aluminium AFI850: Steel
Seals	N: Nitrile (Buna-N) V: Fluoroelastomer (viton)
By-pass valve	Plastic material
Indicator	Brass

CONDIZIONI DI ESERCIZIO

Pressioni corpo filtro	Pressione massima d'esercizio: 2.000.000 Pa (20 bar) Pressione di collaudo: 3.000.000 Pa (30 bar) Pressione di scoppio: 60.000.000 Pa (60 bar)
Temperatura d'esercizio	Da -25 a +95 C
Pressioni di collasso degli elementi filtranti	1.000.000 Pa (10 bar)
Pressione taratura valvola di by-pass	Ritorno: 300.000 Pa ±10% (3 bar) (inizio apertura) Aspirazione: 25.000 Pa ±10% (0.25 bar) (inizio apertura)
Compatibilità con i liquidi - ISO 2943	Compatibili con oli minerali tipo (HH,HM,HR,HV,HG secondo ISO 6743/4)

WORKING CONDITIONS

Filter pressure	Max working pressure: 2.000.000 Pa (20 bar) Test pressure: 3.000.000 Pa (30 bar) Bursting pressure: 60.000.000 Pa (60 bar)
Working temperature	-25 to +95 C
Collapse pressure (filter element)	1.000.000 Pa (10 bar)
By-pass valve setting pressure	Return: 300.000 Pa ±10% (3 bar) (starting of opening) Suction: 25.000 Pa ±10% (0.25 bar) (starting of opening)
Compatibily with hydraulic fluids ISO 2943	Compatible with mineral oils type (HH,HM,HR,HV,HG according to ISO 6743/4)

Le portate sono state calcolate per avere una perdita di carico Δp ≤60.000 Pa (0.6 bar) per i filtri sul ritorno e Δp ≤5.000 Pa (0.05 bar) per i filtri in aspirazione.
I valori sono stati ottenuti con olio Minerale avente viscosità cinematica 30 cSt e densità 860 kg/m³.
(vedi note a pag. 10)

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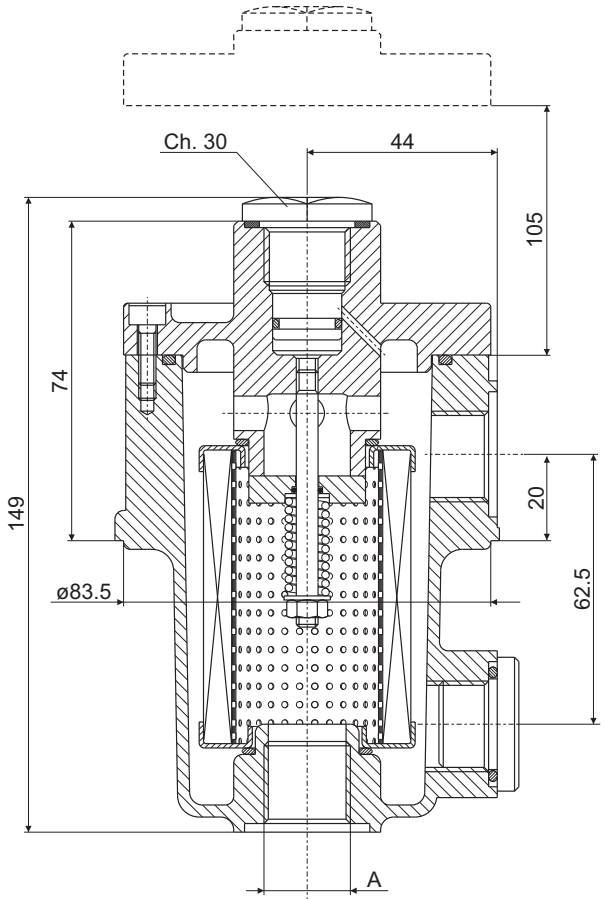
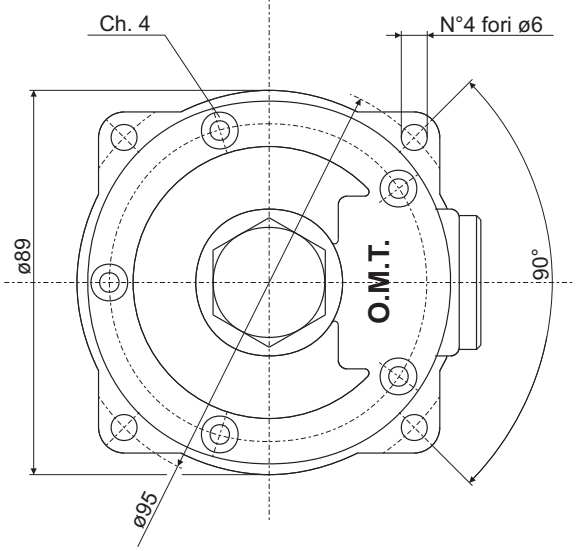
(See remarks on pag.10)



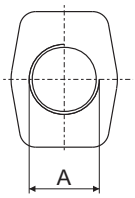


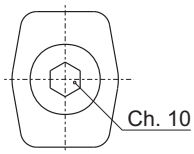
PORTATE CONSIGLIATE
RECOMMENDED FLOWS

AFI	Elemento filtrante Filter element	Portata / Flow (L/min) Aspirazione Suction	 Ritorno Return	Peso Weight (kg)
025	C10	-	40	0,750
025	C25	-	40	0,750
025	F03	-	8	0,750
025	F06	-	12	0,750
025	F10	-	28	0,750
025	F25	-	39	0,750
025	R60	30	40	0,750
025	R90	32	40	0,750
025	R125 / R250	35	40	0,750

ATTACCHI FILETTATI
THREADED CONNECTIONS

Codice Code	A
025	1/2" BSP
025	1/2" NPT
025	SAE 8-3/4" - 16 UNF





(Tappo / *Plug*)

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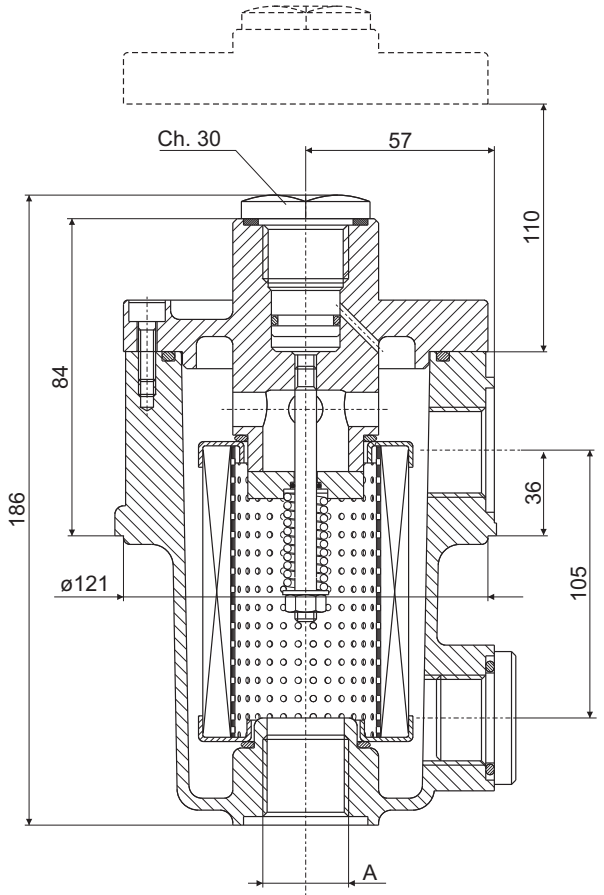
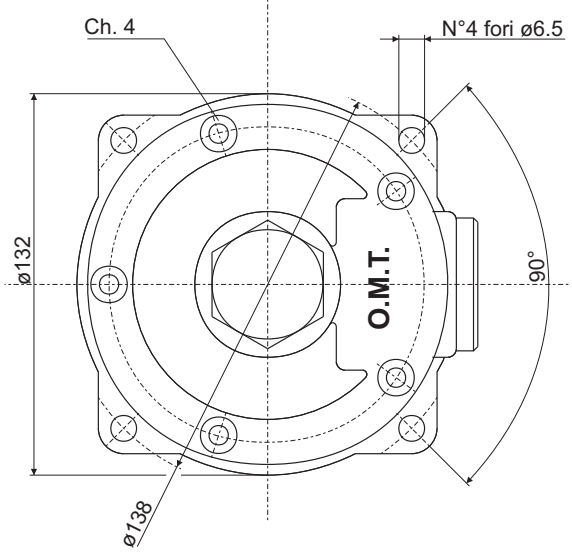


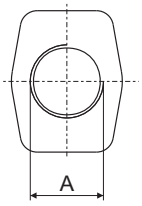


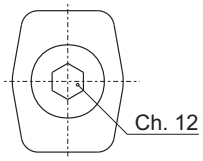
PORTATE CONSIGLIATE
RECOMMENDED FLOWS

AFI	Elemento filtrante Filter element	Portata / Flow (L/min) Aspirazione Suction	 Ritorno Return	Peso Weight (kg)
040	C10	-	80	2,5
040	C25	-	80	2,5
040	F03	-	18	2,5
040	F06	-	29	2,5
040	F10	-	42	2,5
040	F25	-	75	2,5
040	R60	40	80	2,5
040	R90	43	80	2,5
040	R125 / R250	50	80	2,5

ATTACCHI FILETTATI
THREADED CONNECTIONS

Codice Code	A
-	3/4" BSP
1	3/4" NPT
2	SAE 12-1 1/16" - 12 UNF





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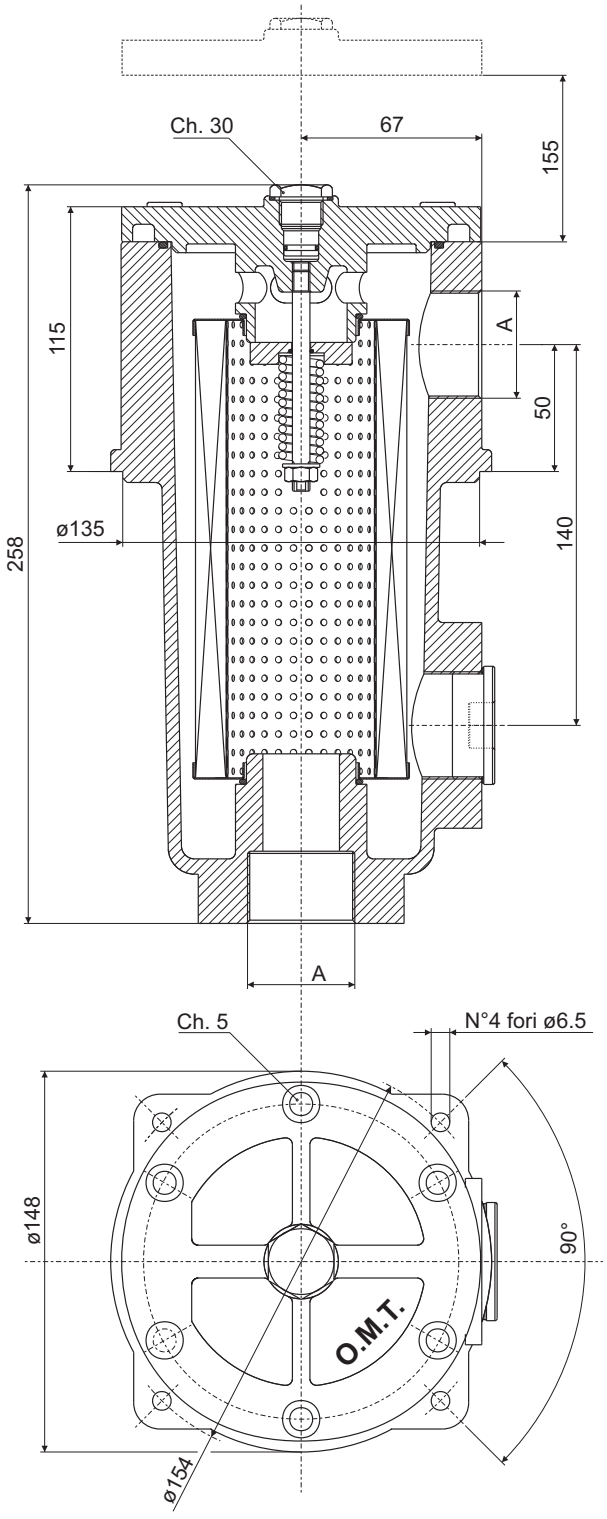
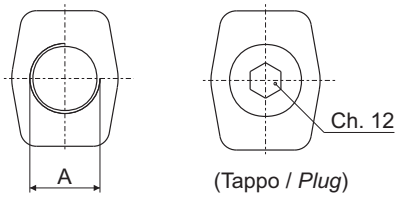


PORTATE CONSIGLIATE
RECOMMENDED FLOWS

AFI	Elemento filtrante Filter element	Portata / Flow (L/min) Aspirazione Suction	 Ritorno Return	Peso Weight (kg)
100	C10	-	120	3,6
100	C25	-	120	3,6
100	F03	-	40	3,6
100	F06	-	53	3,6
100	F10	-	82	3,6
100	F25	-	120	3,6
100	R60	60	120	3,6
100	R90	70	120	3,6
100	R125 / R250	85	120	3,6

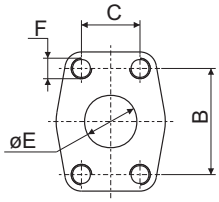
ATTACCHI FILETTATI
THREADED CONNECTIONS

Codice Code	A
-	1" BSP
1	1" NPT
2	SAE 16-1 5/16" - 12 UNF



ATTACCHI FLANGIATI
FLANGED CONNECTIONS

Codice Code	A	øE	B	C	F
3	1" SAE3000 PSI/M	25	52,4	26,2	M10
4	1" SAE3000 PSI/UNC	25	52,4	26,2	3/8"UNC



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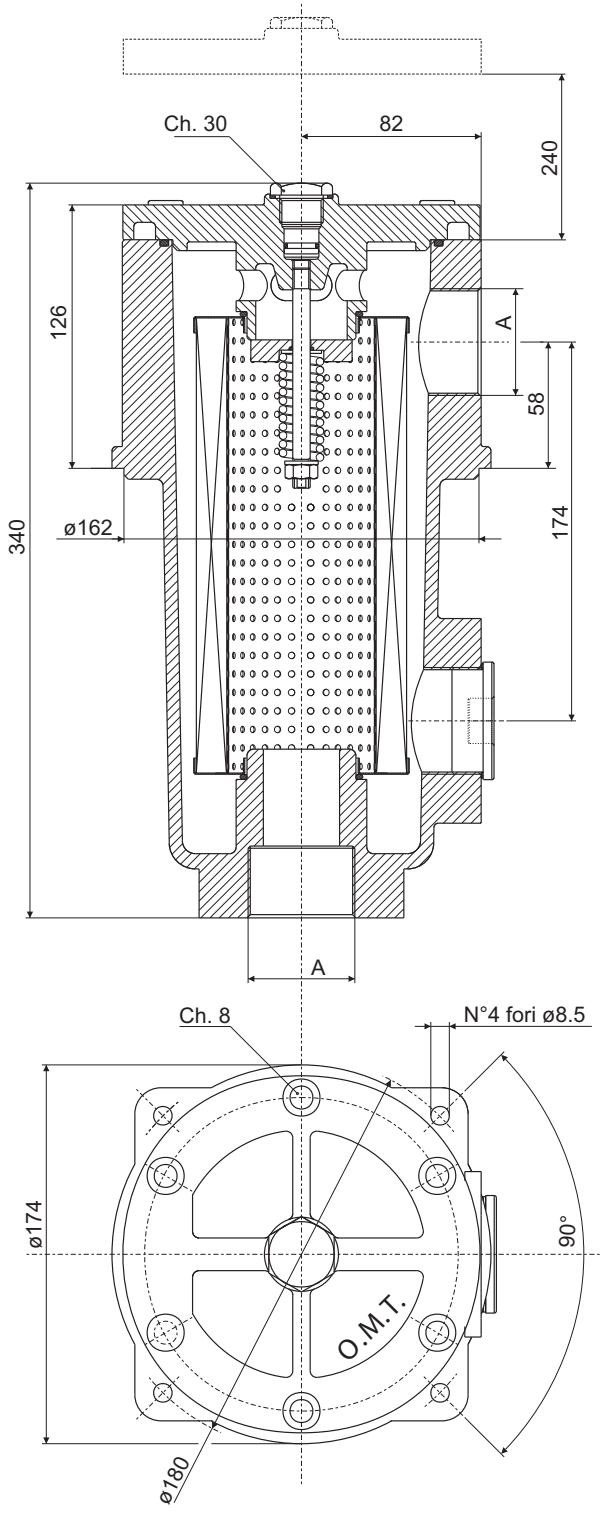
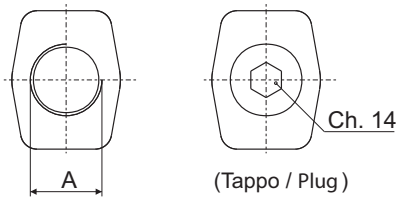


PORTATE CONSIGLIATE
RECOMMENDED FLOWS

AFI	Elemento filtrante Filter element	Portata / Flow (L/min) Aspirazione Suction	 Ritorno Return	Peso Weight (kg)
250	C10	-	300	5,2
250	C25	-	300	5,2
250	F03	-	120	5,2
250	F06	-	190	5,2
250	F10	-	250	5,2
250	F25	-	300	5,2
250	R60	110	300	5,2
250	R90	130	300	5,2
250	R125 / R250	150	300	5,2

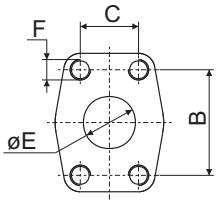
ATTACCHI FILETTATI
THREADED CONNECTIONS

Codice Code	A
-	1 1/2" BSP
1	1 1/2" NPT
2	SAE 24-1 7/8" - 12 UNF



ATTACCHI FLANGIATI
FLANGED CONNECTIONS

Codice Code	A	øE	B	C	F
3	1 1/2" SAE3000 PSI/M	38	70	35,7	M10
4	1 1/2" SAE3000 PSI/UNC	38	70	35,7	1/2"UNC



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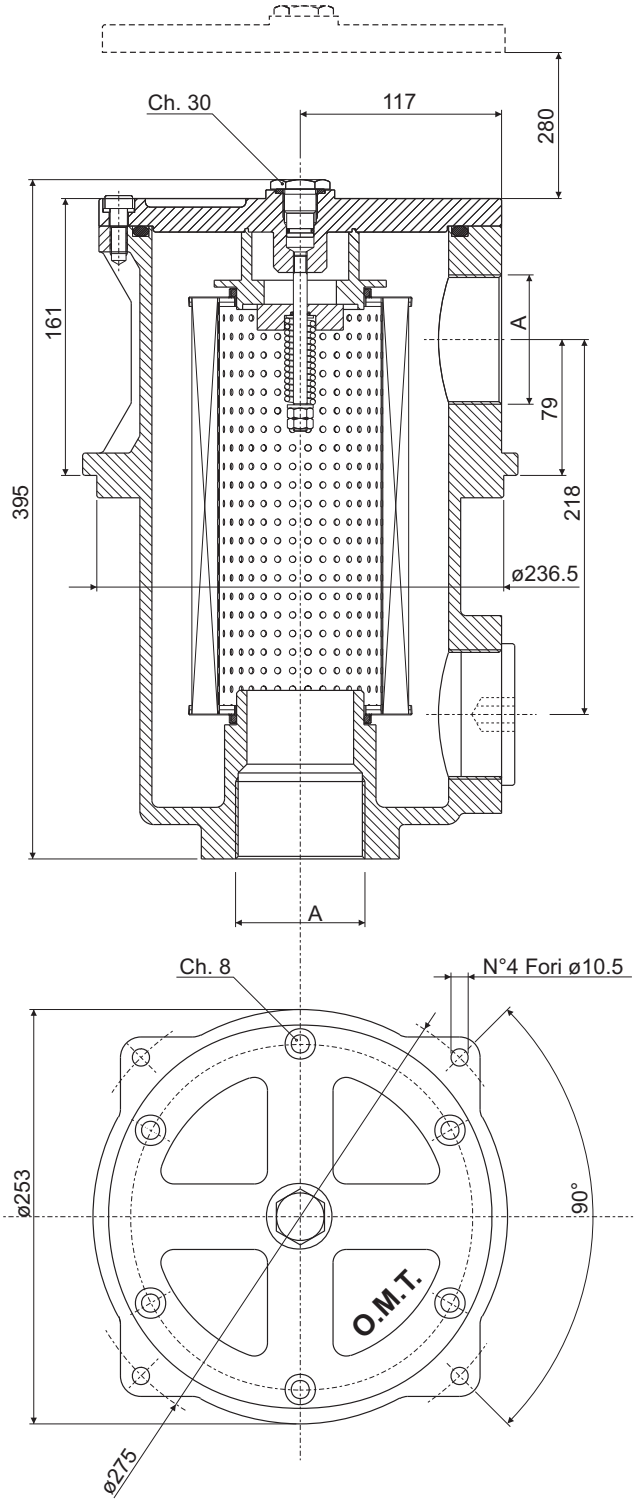
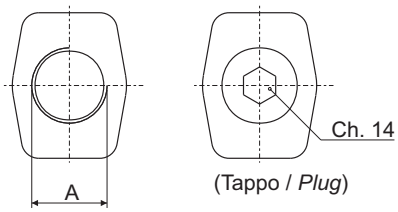


PORTATE CONSIGLIATE
RECOMMENDED FLOWS

AFI	Elemento filtrante Filter element	Portata / Flow (L/min)		Peso Weight (kg)
		Aspirazione Suction	Ritorno Return	
630	C10	-	650	13
630	C25	-	650	13
630	F03	-	210	13
630	F06	-	370	13
630	F10	-	430	13
630	F25	-	570	13
630	R60	200	650	13
630	R90	230	650	13
630	R125 / R250	270	650	13

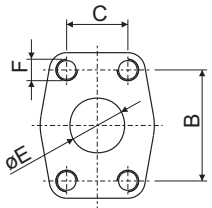
ATTACCHI FILETTATI
THREADED CONNECTIONS

Codice Code	A
-	2 1/2" BSP
1	2 1/2" NPT
2	SAE 32-2 1/2" - 12 UNF



ATTACCHI FLANGIATI
FLANGED CONNECTIONS

Codice Code	A	øE	B	C	F
3	2 1/2" SAE3000 PSI/M	63	89	50,8	M12
4	2 1/2" SAE3000 PSI/UNC	63	89	50,8	1/2"UNC



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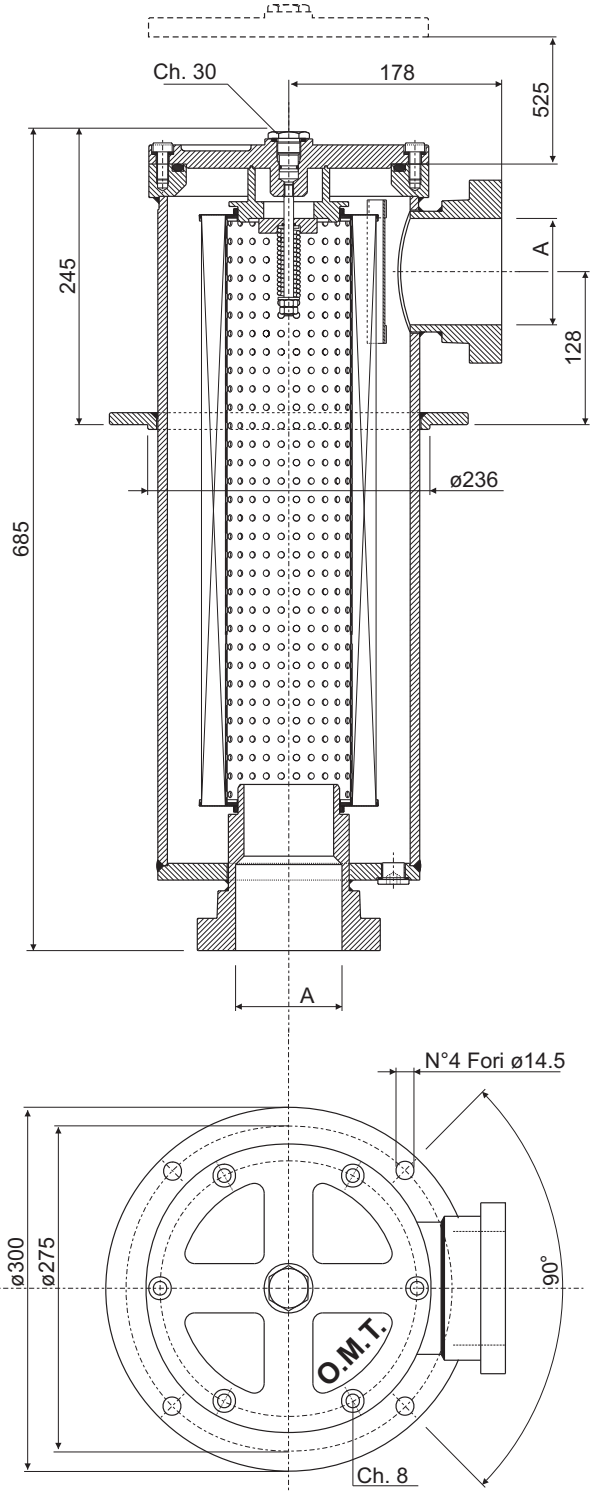
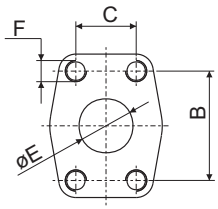


PORTATE CONSIGLIATE
RECOMMENDED FLOWS

AFI	Elemento filtrante Filter element	Portata / Flow (L/min)		Peso Weight (kg)
		Aspirazione Suction	Ritorno Return	
850	C10	-	1100	48
850	C25	-	1200	48
850	F03	-	540	48
850	F06	-	740	48
850	F10	-	950	48
850	F25	-	1000	48
850	R60	400	1200	48
850	R90	470	1200	48
850	R125 / R250	550	1200	48

ATTACCHI FLANGIATI
FLANGED CONNECTIONS

Codice Code	A	øE	B	C	F
-	3 1/2" SAE3000 PSI/M	89	120,7	70	M16
1	3 1/2" SAE3000 PSI/UNC	89	120,7	70	5/8"UNC



Cadute di Pressione
(conformi a ISO 3968)

Pressure Drops
(according to ISO 3968)

La caduta di pressione completa si ottiene sommando la caduta di pressione del corpo filtro e quella dell'elemento filtrante.

Cadute di pressione nel corpo filtro

Le curve sono valide con olio minerale avente massa volumica di 860 kg/m^3. La caduta di pressione è direttamente proporzionale alla massa volumica.

Cadute di pressione negli elementi filtranti

Le curve sono valide con olio minerale avente viscosità cinematica di 30 cSt. La variazione di caduta di pressione è proporzionale alla viscosità cinematica.

The pressure drop of the complete filter is calculated by adding the pressure drop of the housing to that of the filter element.

Pressure drops in the housing

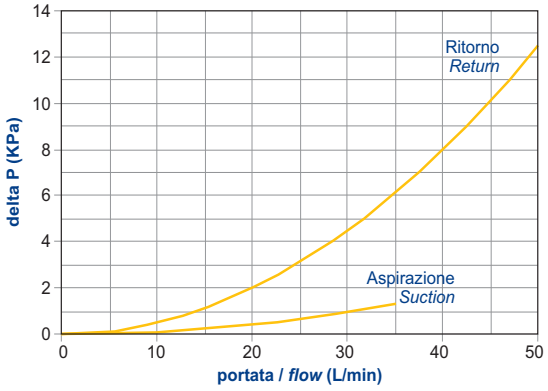
The graphics refer to the use of mineral oil with a mass density of 860 kg/m^3. The pressure drop is directly proportional to the mass density.

Pressure drops in the filter elements

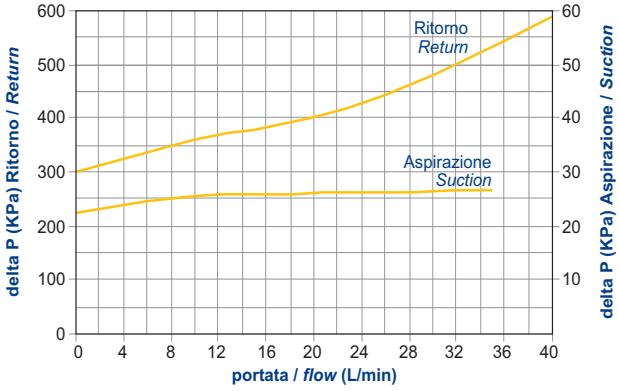
The graphics refer to mineral oil with a kinematic viscosity of 30 cSt. The variation of the pressure drop is proportional to the kinematic viscosity.

AFI serie/series 025

ΔP CORPI / ΔP HOUSINGS

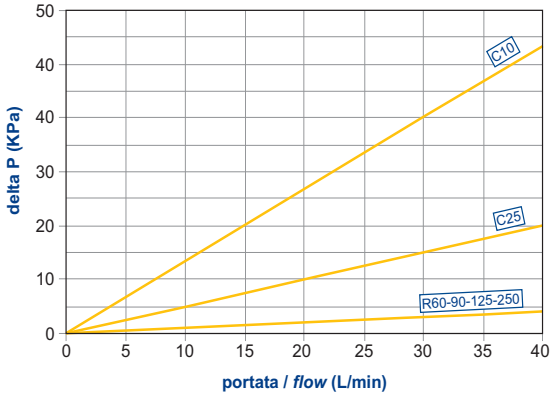


BY-PASS / BY-PASS

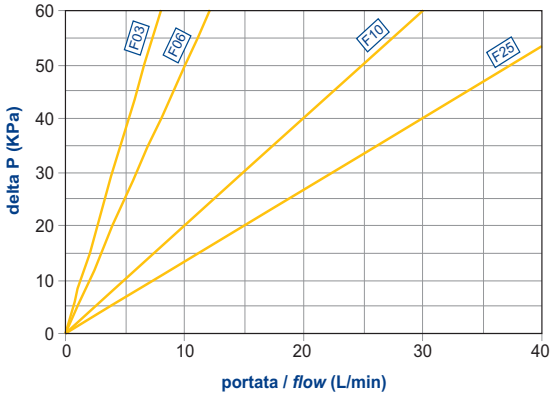


tipo CFI025 (R) series

ΔP ELEMENTI (ritorno)

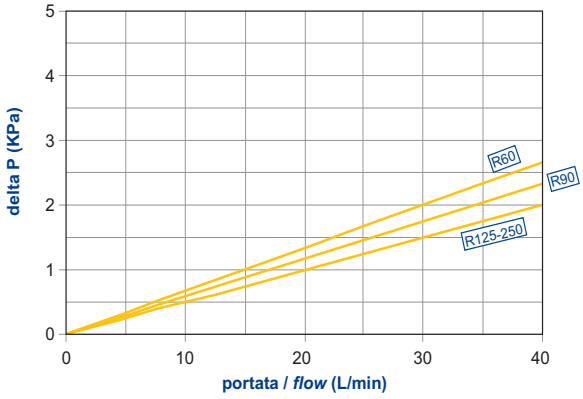


ΔP ELEMENTS (return)



tipo CFI025 (A) series

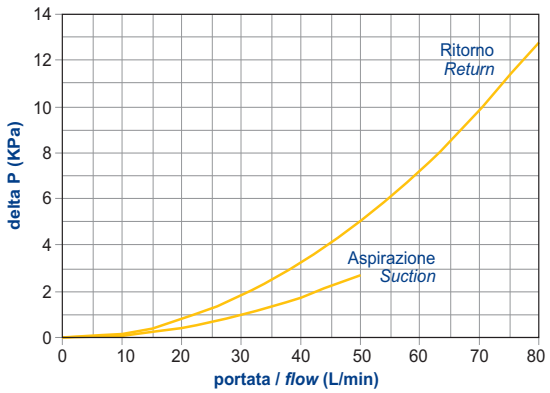
ΔP ELEMENTI (aspirazione)



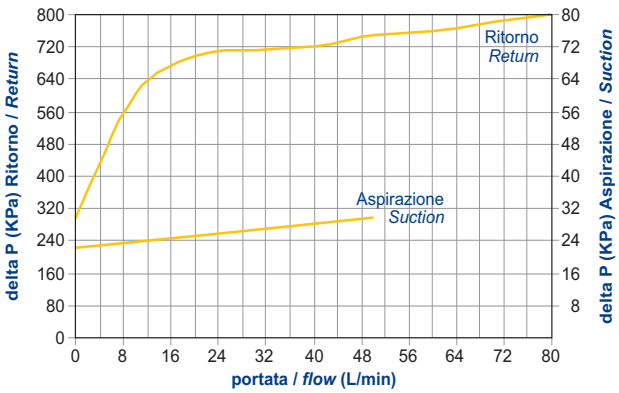
ΔP ELEMENTS (suction)

AFI serie/series 040

ΔP CORPI / ΔP HOUSINGS



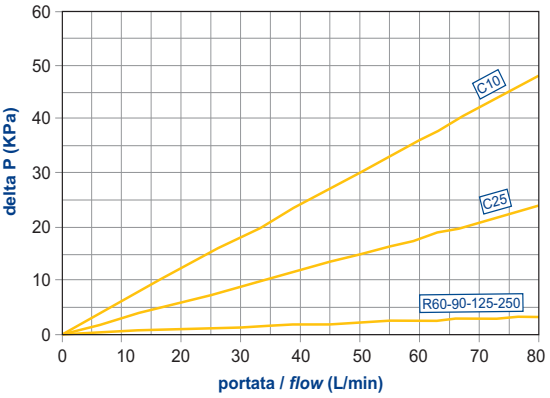
BY-PASS / BY-PASS

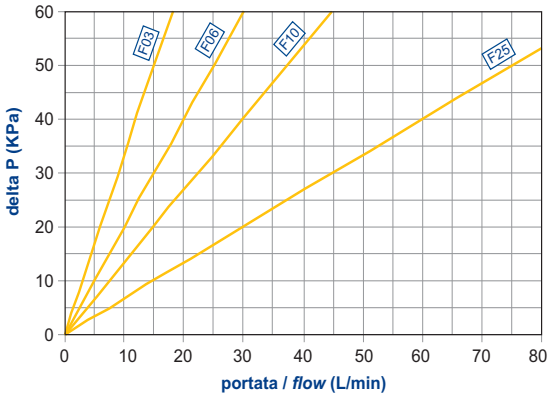


ΔP ELEMENTI (ritorno)

tipo CFI040 (R) series

ΔP ELEMENTS (return)

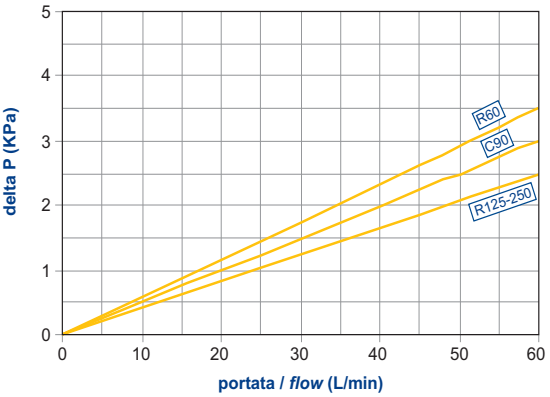




ΔP ELEMENTI (aspirazione)

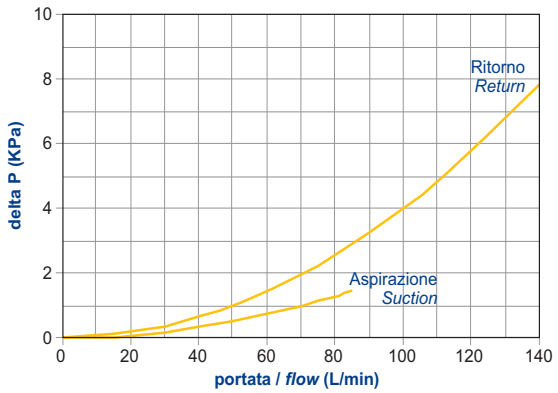
tipo CFI040 (A) series

ΔP ELEMENTS (suction)

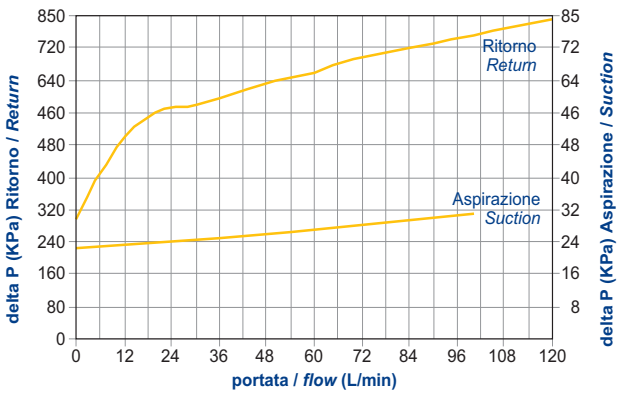


AFI serie/series 100

ΔP CORPI / ΔP HOUSINGS



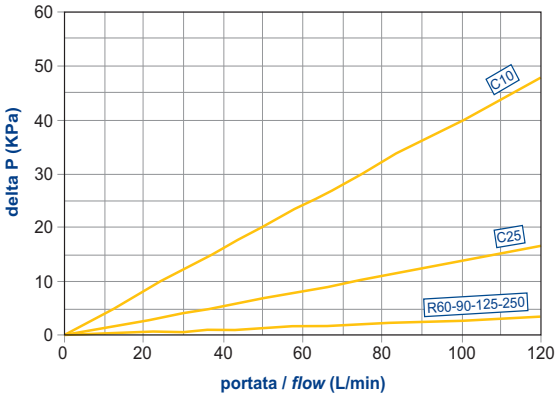
BY-PASS / BY-PASS

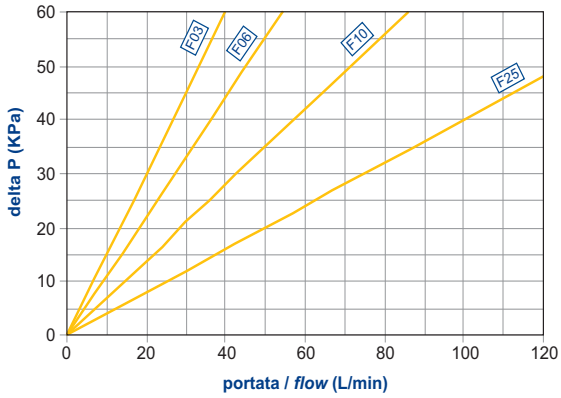


ΔP ELEMENTI (ritorno)

tipo CFI100 (R) series

ΔP ELEMENTS (return)

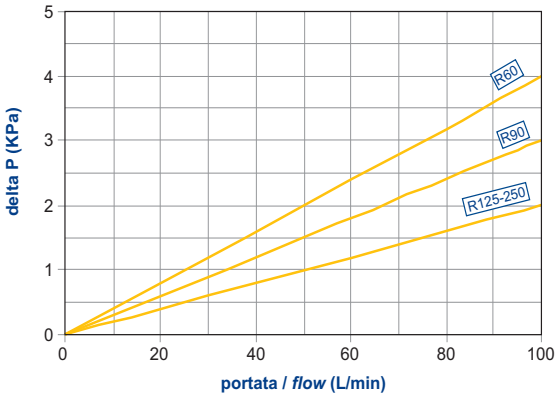




ΔP ELEMENTI (aspirazione)

tipo CFI100 (A) series

ΔP ELEMENTS (suction)

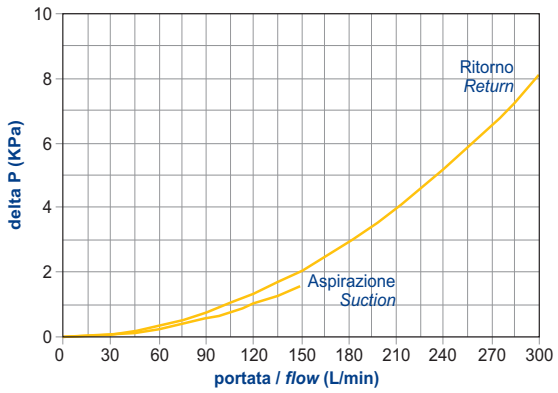


Cadute di Pressione
(conformi a ISO 3968)

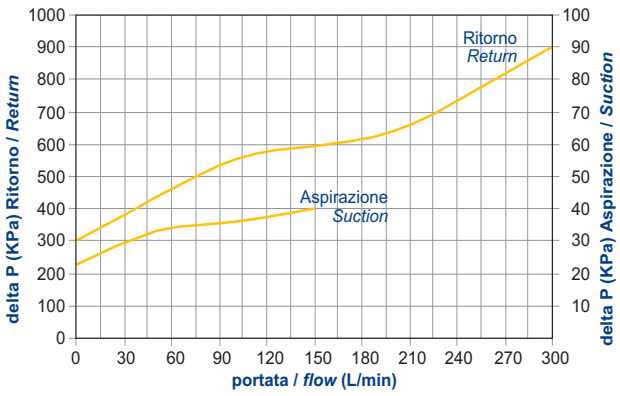
Pressure Drops
(according to ISO 3968)

AFI serie/series 250

ΔP CORPI / ΔP HOUSINGS

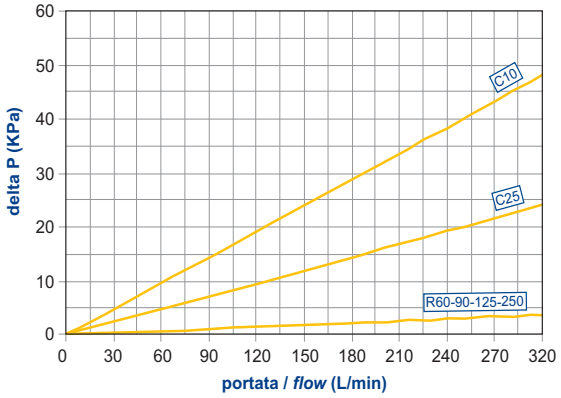


BY-PASS / BY-PASS

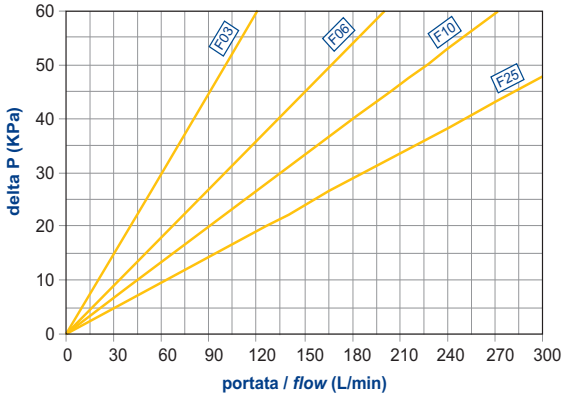


ΔP ELEMENTI (ritorno)

tipo CFI250 (R) series

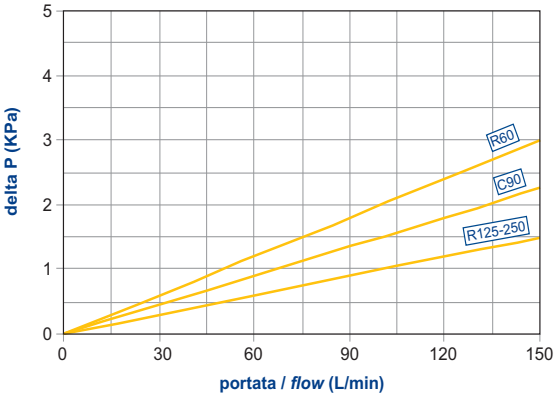


ΔP ELEMENTS (return)



ΔP ELEMENTI (aspirazione)

tipo CFI250 (A) series



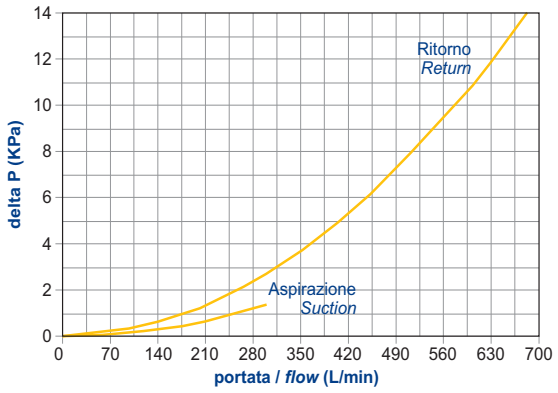
ΔP ELEMENTS (suction)

Cadute di Pressione
(conformi a ISO 3968)

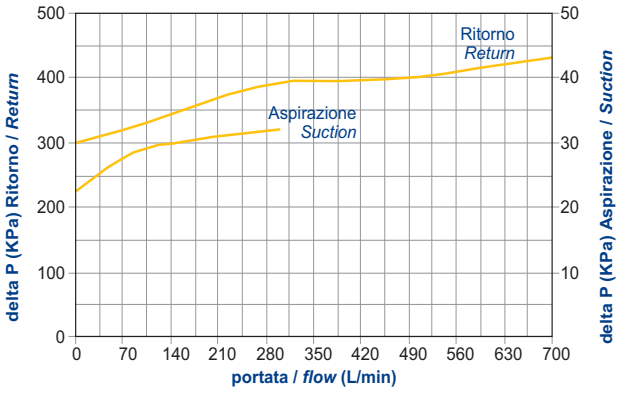
Pressure Drops
(according to ISO 3968)

AFI serie/series 630

ΔP CORPI / ΔP HOUSINGS



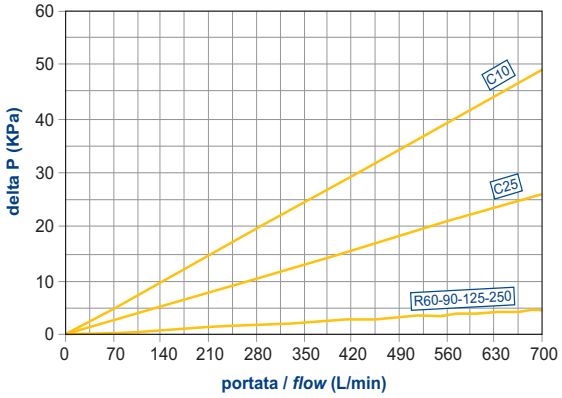
BY-PASS / BY-PASS

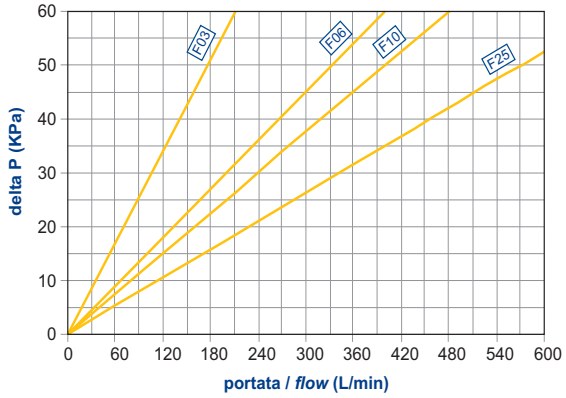


ΔP ELEMENTI (ritorno)

tipo CFI630 (R) series

ΔP ELEMENTS (return)

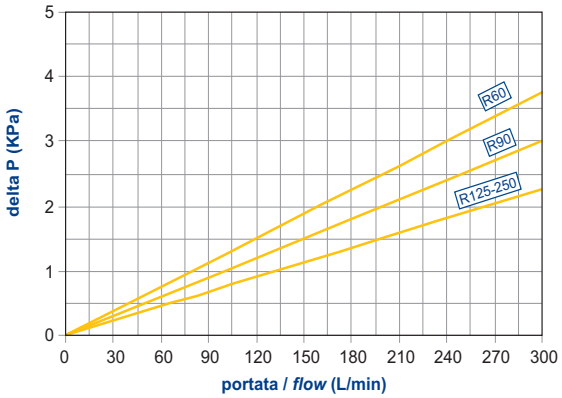




ΔP ELEMENTI (aspirazione)

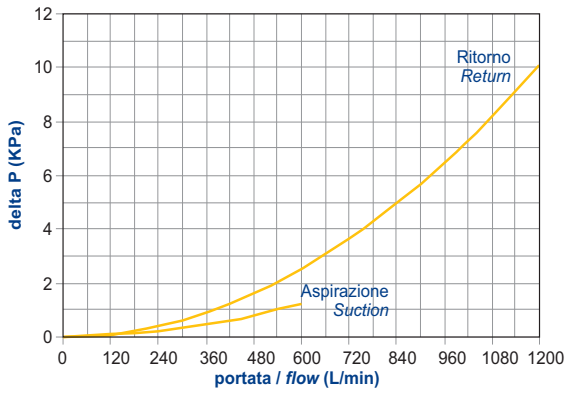
tipo CFI630 (A) series

ΔP ELEMENTS (suction)

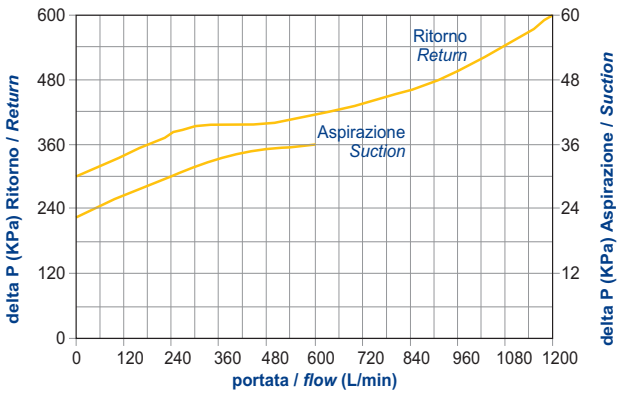


AFI serie/series 850

ΔP CORPI / ΔP HOUSINGS



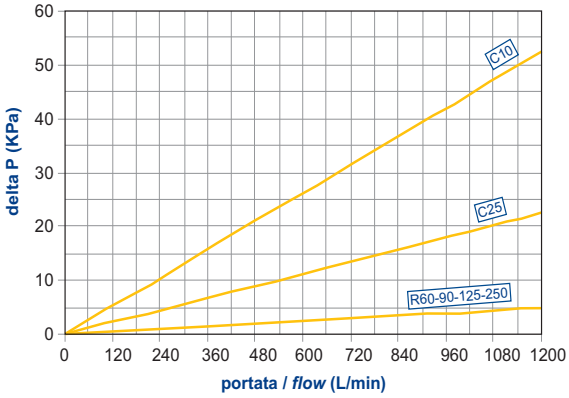
BY-PASS / BY-PASS

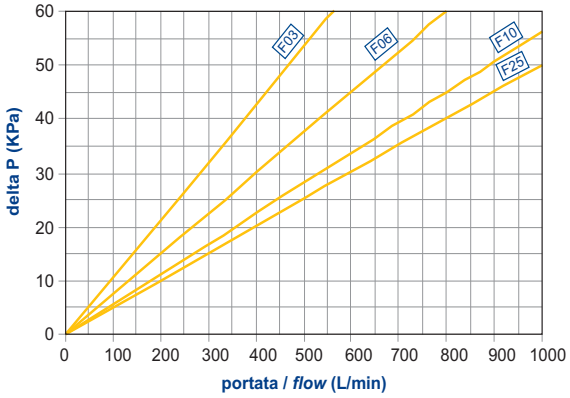


ΔP ELEMENTI (ritorno)

tipo CFI850 (R) series

ΔP ELEMENTS (return)

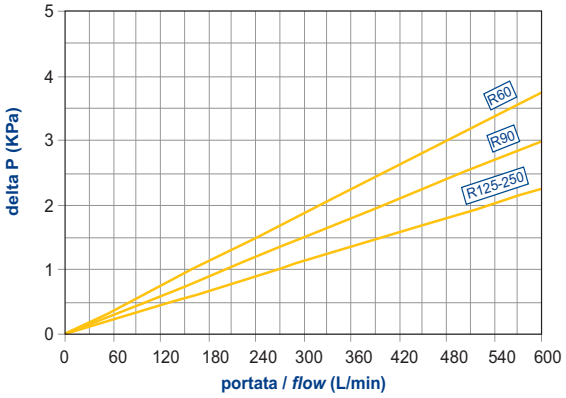




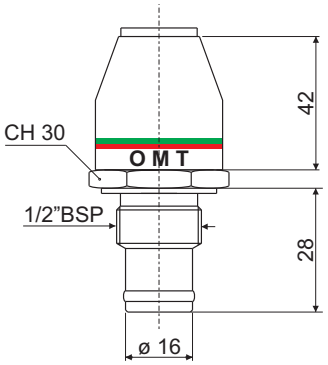
ΔP ELEMENTI (aspirazione)

tipo CFI850 (A) series

ΔP ELEMENTS (suction)

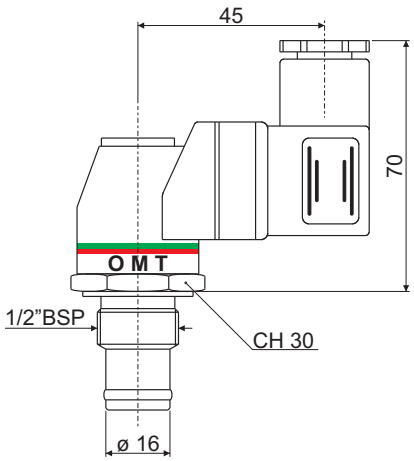


DV 200



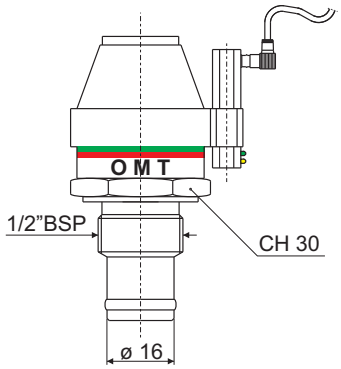
INDICATORE VISIVO
VISUAL INDICATOR

DE 200



INDICATORE VISIVO-ELETTRICO
ELECTRICAL VISUAL INDICATOR

DR 200



INDICATORE VISIVO-ELETTRICO
CON CONTATTI "REED"
VISUAL-ELECTRICAL INDICATOR
WITH "REED" CONTACTS

CARATTERISTICHE TECNICHE
TECHNICAL DATA

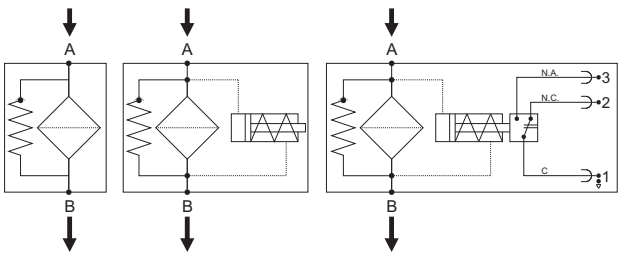
Codice Part number	Descrizione Description	Taratura Setting	Contatti elettrici Electrical Contacts
D V 200	visivo / visual	200.000Pa (2 bar)	-
D E 200	visivo- elettrico electrical-visual		Scambio Changeover
D R 200	visivo- elettrico con contatti "reed" Visual-electrical with "reed" contacts		

Tensioni di rottura per DR200 Breakdown voltage for DR200	
Tensione di alimen. (V) Feeder voltage (V)	Potenza con carico induttivo (VA) Power with inductive load (VA)
A.C. 3-115	20
D.C. 3-115	20

Tensioni di rottura per DE200 Breakdown voltage for DE200		
Tensione di alimen. (V) Feeder voltage (V)	Carico resistivo (A) Resistive load (A)	Carico induttivo (A) Inductive load (A)
C.A. 125	5	5
C.A. 250	5	5
C.C. 15	10	10
C.C. 30	5	5
C.C. 50	2	2
C.C. 125	0.5	0.06

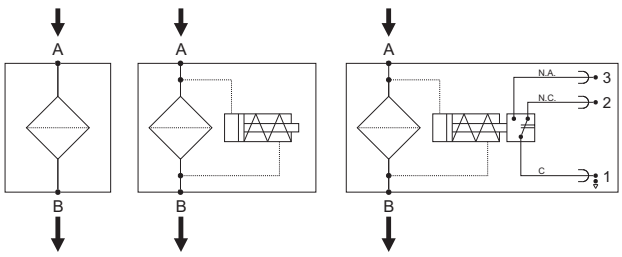
SIMBOLOGIA
SIMBOLOGY

Con By-pass / With By-pass



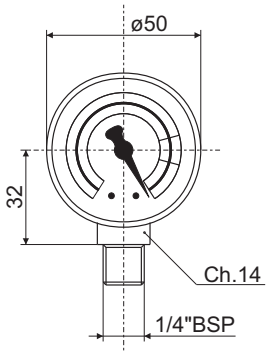
AFI...R | AFI...R + DV200 | AFI...R + DE200 / DR200

Senza By-pass / Without By-pass



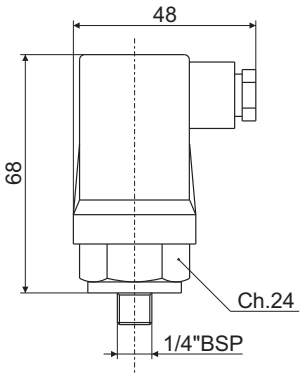
AFI...S | AFI...S + DV200 | AFI...S + DE200 / DR200

VV 2



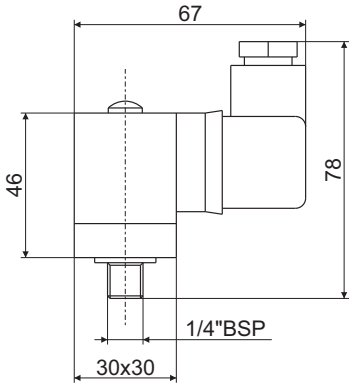
VUOTOMETRO
VACUUM GAUGE

VE 2



VUOTOSTATO CON CONTATTI IN SCAMBIO "FAST-ON"
VACUUM SWITCH WITH CONTACT "FAST-ON" SWITCH

VE 3



VUOTOSTATO CON CONTATTI IN SCAMBIO DIN 42560
VACUUM SWITCH WITH CONTACTS DIN 42560 SWITCH

CARATTERISTICHE TECNICHE
TECHNICAL DATA

Codice Part number	Descrizione Description	Scala taratura Setting	Contatti elettrici Electrical Contacts	Tipo Type
VV2	visivo / visual	0-76 cm Hg	-	Puntuale On the spot
VE2	elettrico electrical	-20000 Pa (-0,2 bar)	Scambio Changeover	
VE3				

CARATTERISTICHE ELETTRICHE
ELECTRICAL DATA

Codice Part number	Tensione max di lavoro (V) Max feeder voltage (V)	Carico resistivo (A) Resistive load (A)	Carico induttivo (A) Inductive load (A)	Protezione (completo) Protection (complete)
VE2	C.A. 220	6	2	IP 65
VE3	C.A. 250	3	2	IP 65

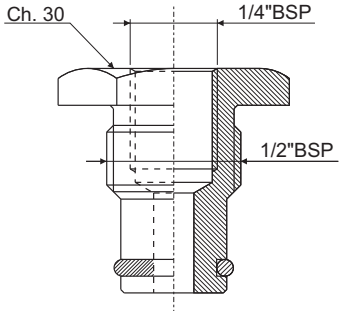
ADATTATORE
ADAPTOR

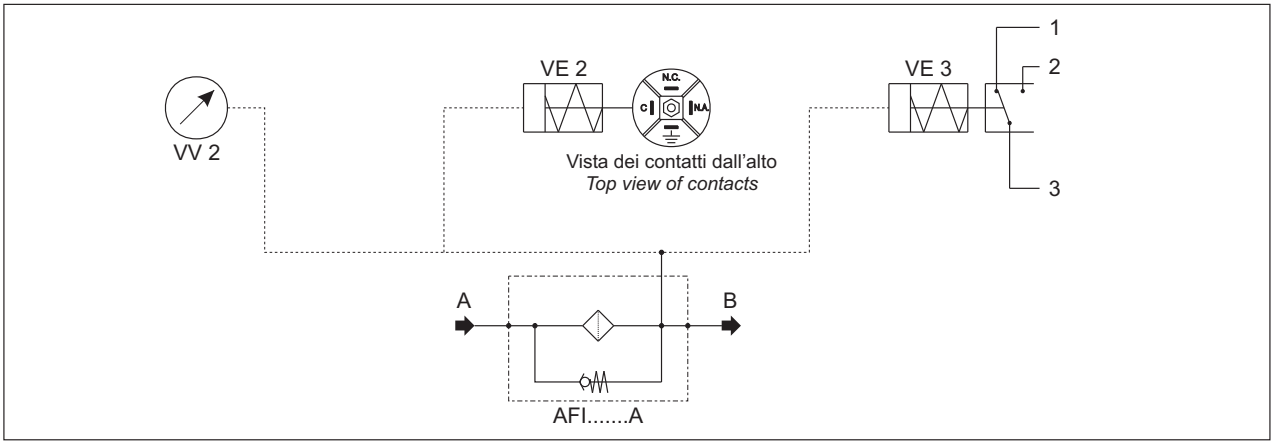
Necessario per utilizzare gli indicatori di intasamento con attacco da 1/4" BSP, l'adattatore è fornito standard in tutti i Filtri completi con by-pass in aspirazione.

Esempio: AFI040C25NA (Adattatore incluso) Codice adattatore: AFI 850-04-G

To be used with 1/4"BSP clogging indicators, the adaptor is supplied standard into complete filters with suction by-pass.

Example: AFI040C25NA (Adaptor included) Adaptor part number: AFI 850-04-G





CODICE PER L'ORDINAZIONE DEL FILTRO COMPLETO
HOW TO ORDER THE COMPLETE FILTER

AFI 250 C25 N A 2

Grandezza nominale filtro completo Nominal Size complete filter	Grandezza nominale Elemento filtrante Nominal size Replacement element
025	025
040	040
100	100
250	250
630	630
850	850

Elemento filtrante Filtration Element		
-		Senza elemento filtrante Without filtration elements
C10	10 µm	Carta trattata con resine ßx≥2 Resin treated cellulose ßx≥2
C25	25 µm	Carta trattata con resine ßx≥2 Resin treated cellulose ßx≥2
F03	3 µm	Fibre inorganiche ßx≥200 Inorganic fibre ßx≥200
F06	6 µm	Fibre inorganiche ßx≥200 Inorganic fibre ßx≥200
F10	10 µm	Fibre inorganiche ßx≥200 Inorganic fibre ßx≥200
F25	25 µm	Fibre inorganiche ßx≥200 Inorganic fibre ßx≥200
R60	60 µm	Rete a maglia quadra (Aisi 304) Square mesh (Aisi 304)
R90	90 µm	Rete a maglia quadra (Aisi 304) Square mesh (Aisi 304)
R125	125 µm	Rete a maglia quadra (Aisi 304) Square mesh (Aisi 304)

Elemento filtrante Filtration Element	
N	Nitrile / Buna-N
V	Viton

Valvola di By-pass By-pass valve	
S	Senza by-pass Without by-pass
R	By-pass sul ritorno Return by-pass Δp 3 bar
A	By-pass in aspirazione Suction by-pass Δp 0,25 bar

CFI 250 C25

Codice per l'ordinazione dell'elemento filtrante di ricambio
How to order the replacement element

ATTACCHI
CONNECTIONS

A	025	040	100	250	630	850
-	1/2" BSP	3/4" BSP	1" BSP	1 1/2" BSP	2 1/2" BSP	3 1/2" SAE3000 PSI/M
1	1/2" NPT	3/4" NPT	1" NPT	1 1/2" NPT	2 1/2" NPT	3 1/2" SAE 3000 PSI/UNC
2	SAE8-3/4"-16UNF	SAE12-1 1/16"-12UN	SAE16-1 5/16"-12UN	SAE24-1 7/8"-12UN	SAE32-2 1/2"-12 UN	
3			1" SAE 3000 PSI/M	1 1/2"SAE 3000 PSI/M	2 1/2" SAE 3000 PSI/M	
4			1" SAE 3000 PSI/UNC	1 1/2"SAE 3000 PSI/UNC	2 1/2" SAE 3000 PSI/UNC	

* Per l'ordinazione degli indicatori di intasamento, guardare pag. 16-17
* See page 16-17 for information how to order clogging indicators

ELEMENTO FILTRANTE
FILTRATION ELEMENTS

Codici vecchi Old codes	Codici nuovi New codes
CFI025A	CFI025C10
CFI025B	CFI025C25
CFI025C	CFI025R60
CFI025U	CFI025R90
CFI025E	CFI025R125
CFI025G	CFI025F10
CFI025H	CFI025F25

Codici vecchi Old codes	Codici nuovi New codes
CFI040A	CFI040C10
CFI040B	CFI040C25
CFI040C	CFI040R60
CFI040U	CFI040R90
CFI040E	CFI040R125
CFI040G	CFI040F10
CFI040H	CFI040F25

Codici vecchi Old codes	Codici nuovi New codes
CFI100A	CFI100C10
CFI100B	CFI100C25
CFI100C	CFI100R60
CFI100U	CFI100R90
CFI100E	CFI100R125
CFI100G	CFI100F10
CFI100H	CFI100F25

Codici vecchi Old codes	Codici nuovi New codes
CFI250A	CFI250C10
CFI250B	CFI250C25
CFI250C	CFI250R60
CFI250U	CFI250R90
CFI250E	CFI250R125
CFI250G	CFI250F10
CFI250H	CFI250F25

Codici vecchi Old codes	Codici nuovi New codes
CFI630A	CFI630C10
CFI630B	CFI630C25
CFI630C	CFI630R60
CFI630U	CFI630R90
CFI630E	CFI630R125
CFI630G	CFI630F10
CFI630H	CFI630F25

Codici vecchi Old codes	Codici nuovi New codes
CFI850A	CFI850C10
CFI850B	CFI850C25
CFI850C	CFI850R60
CFI850U	CFI850R90
CFI850E	CFI850R125
CFI850G	CFI850F10
CFI850H	CFI850F25

FILTRO COMPLETO
COMPLETE FILTER

Codici vecchi Old codes	Codici nuovi New codes
AFI_ _ _A_ _	AFI_ _ _C10_ _
AFI_ _ _B_ _	AFI_ _ _C25_ _
AFI_ _ _C_ _	AFI_ _ _R60_ _
AFI_ _ _U_ _	AFI_ _ _R90_ _
AFI_ _ _E_ _	AFI_ _ _R125_ _
AFI_ _ _G_ _	AFI_ _ _F10_ _
AFI_ _ _H_ _	AFI_ _ _F25_ _

Esempio / Exemple

Codici vecchi Old codes	Codici nuovi New codes
AFI100CNR	AFI100R60NR

SCAMBIATORI
HEAT EXCHANGERS

FILTRI
FILTERS

ACCESSORI
ACCESSORIES

COMPONENTI
COMPONENTS

FLANGE / FLANGES
RACCORDI / COUPLINGS
BLOCCHI / MANIFOLDS

OMT

OMT s.p.a. Via Lombardia, 14 - 24040 Calvenzano (Bg) ITALY - Tel. +39 0363 860311 - Fax +39 0363 335636
www.omtfiltri.com - omt@omtfiltri.com

07

Filtri - Filters

SERIE **AFR** SERIES

Filtri in aspirazione e sul ritorno
Suction or return filters

Con il fine di migliorare costantemente la qualità dei nostri prodotti, ci riserviamo il diritto di modificarne in qualsiasi momento le caratteristiche senza preavviso.
È responsabilità della spettabile clientela la costante verifica dei dati contenuti nei cataloghi.
Questo catalogo annulla e sostituisce i precedenti.

In order to constantly improve our products quality, we take the right to make changes to the catalogues at any time without notice.
Customers have the responsibility to continuously check all the information in the catalogues.
This catalogue cancels and replaces the previous ones.

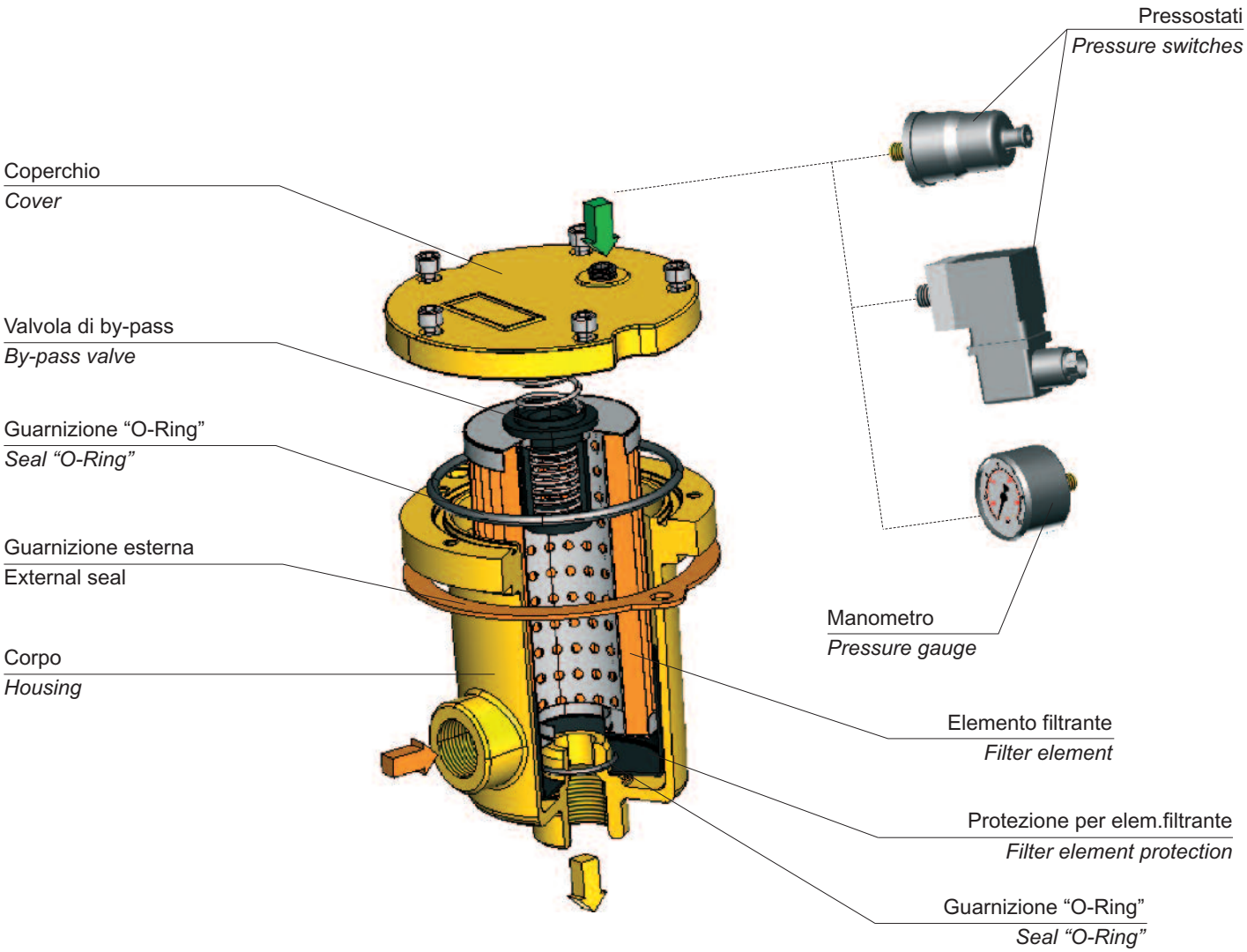
Versione - Version 03/042018

FILTRI IN ASPIRAZIONE E SUL RITORNO SERIE AFR 1.500.000 Pa (15 BAR)

SUCTION AND RETURN FILTER SERIES AFR 1.500.000 Pa (15 BAR)

AFR è la serie di filtri per linee in aspirazione e sul ritorno; la gamma è composta da quattro differenti grandezze con portate nominali fino a 180 L/min.
Gli elementi filtranti sono costruiti con i più evoluti materiali, a garanzia di una elevata efficienza di filtrazione e della massima durata nel tempo.
La divisione Ricerca e Sviluppo, presente nella sede di Calvenzano (Bg), utilizzando moderne e sofisticate apparecchiature di prova, esercita un costante controllo delle prestazioni dei filtri e degli elementi filtranti OMT.

AFR is the series to be installed on return and suction lines; the range includes four different sizes with nominal flow rates up to 180 L/min.
Filter elements are made with the most advanced materials, to guarantee a high filtration efficiency and a long-lasting life.
OMT Research & Development department, located in Calvenzano (Bg), uses modern and sophisticated test equipments and makes a continuous check about filter and filter element performances.



LA SERIE DI FILTRI AFR È CONFORME ALLE SEGUENTI NORME ISO:

-ISO 2941 - Oleoidraulica - Elementi filtranti - Verifica della resistenza allo schiacciamento o allo scoppio

-ISO 2942 - Oleoidraulica - Elementi filtranti - Verifica dell'integrità di fabbricazione e determinazione del punto di prima bolla

-ISO 2943 - Oleoidraulica - Elementi filtranti - Verifica della compatibilità dei materiali con i fluidi

-ISO 3723 - Oleoidraulica - Elementi filtranti - Verifica della resistenza alla deformazione assiale

-ISO 3724 - Oleoidraulica - Elementi filtranti - Verifica della resistenza a fatica per variazioni di portata

-ISO 3968 - Oleoidraulica - Filtri - Determinazione della perdita di carico in funzione della portata

-ISO 16889 - Oleoidraulica - Filtri - Metodo Multi-pass valutazione delle caratteristiche di filtrazione di un elemento filtrante

AFR FILTER SERIES IS SUITABLE TO THE FOLLOWING ISO STANDARDS:

-ISO 2941 - Hydraulic fluid power - Filter elements Verification of collapse / burst resistance

-ISO 2942 - Hydraulic fluid power - Filter elements Verification of fabrication integrity and determination of the first bubble point

-ISO 2943 - Hydraulic fluid power - Filter elements Verification of material compatibility with fluids

-ISO 3723 - Hydraulic fluid power - Filter elements Method for end load test

-ISO 3724 - Hydraulic fluid power - Filter elements Verification of flow fatigue characteristics

-ISO 3968 - Hydraulic fluid power - Filters - Evaluation of pressure drop versus flow characteristics

-ISO 16889 - Hydraulic fluid power - Filters - Multi-pass method for evaluating filtration performance of a filter element

MATERIALI (elementi filtranti)

Fondelli	Lamiera zincata
Tubo di sostegno	Lamiera zincata
Reti di supporto	Acciaio galvanizzato con rivestimento epossidico

MATERIALS (filter elements)

End caps	Galvanized sheet iron
Support tube	Galvanized sheet iron
Support mesh	Galvanized steel with epox coating

SETTI FILTRANTI

FILTRATION MATERIALS

Elementi filtranti Filter elements	Descrizione Description	Materiale Material	Grado di filtrazione (µm) Filtration (µm)	Rapporto ß / ß Ratio	
				ISO 4572 ßx≥200	ISO 16889 ßx(c)≥200
C10	Carta trattata / Treated paper	Fibre di cellulosa / Cellulose fibre	10	-	-
C25	Carta trattata / Treated paper	Fibre di cellulosa / Cellulose fibre	25	-	-
F03	Fibra inorganica / Inorganic fibre	Fibra di vetro / Glass fibre	3	3	5
F06	Fibra inorganica / Inorganic fibre	Fibra di vetro / Glass fibre	6	6	6
F10	Fibra inorganica / Inorganic fibre	Fibra di vetro / Glass fibre	10	10	9
F25	Fibra inorganica / Inorganic fibre	Fibra di vetro / Glass fibre	25	25	20
R60	Rete a maglia quadra / Square mesh	Aisi 304	60	-	-
R90	Rete a maglia quadra / Square mesh	Aisi 304	90	-	-
R250	Rete a maglia quadra / Square mesh	Aisi 304	250	-	-

SUPERFICI UTILI (cm^2) ELEMENTI FILTRANTI

FILTRATION AREA (cm^2) FILTER ELEMENTS

Elementi filtranti / Filter elements	CR 091	CR 111	CR 112	CR 171
C10 - C25	500	890	1380	4650
F03 - F06 - F10 - F25	380	820	1260	3780
R60 - R90 - R250	280	450	700	1860

MATERIALI (corpo)

Corpo	Alluminio
Coperchio	Alluminio
Guarnizioni	N: Nitrilica (Buna-N) V: Fluoroelastomero (viton)
Valvola di by-pass	Corpo (nylon)
Indicatore	Ottone

MATERIALS (housing)

Housing	Aluminium
Cover	Aluminium
Seals	N: Nitrile (Buna-N) V: Fluoroelastomer (viton)
By-pass valve	Housing (nylon)
Indicator	Brass

CONDIZIONI DI ESERCIZIO

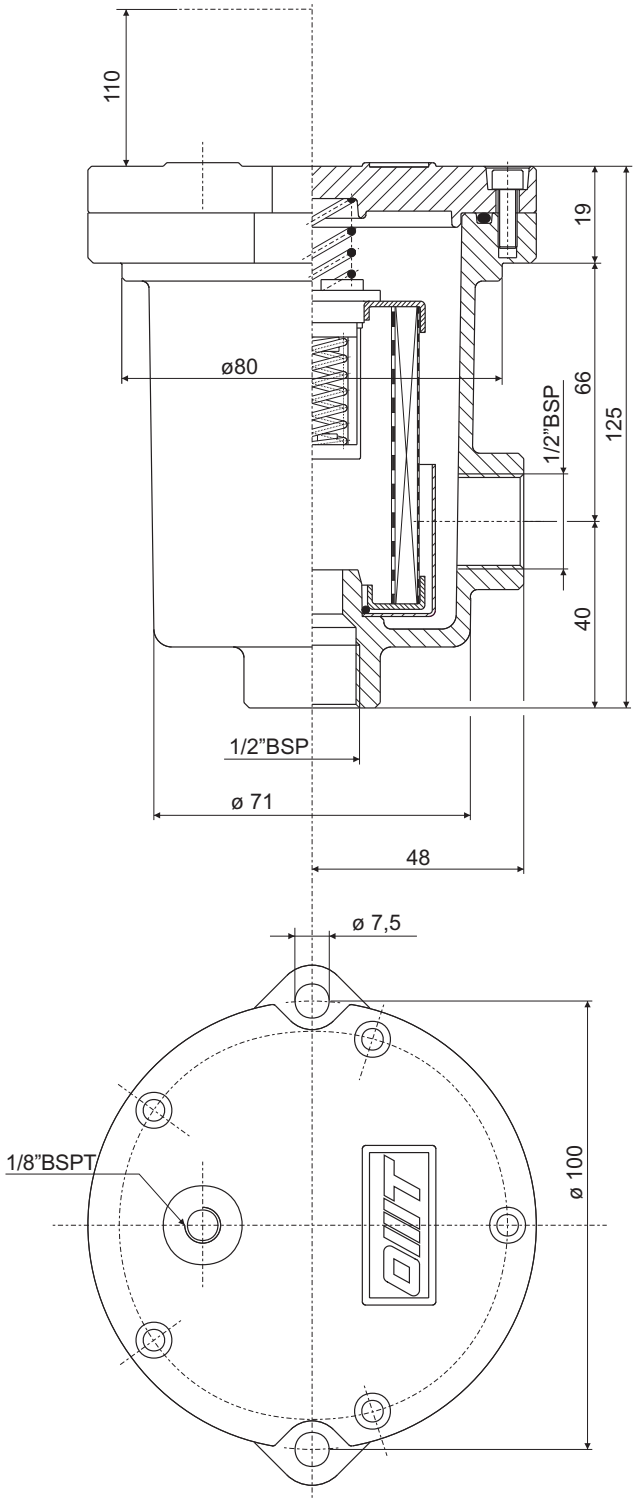
Pressioni corpo filtro	Pressione massima d'esercizio: 1.500.000 Pa (15 bar) Pressione di collaudo: 2.400.000 Pa (24 bar) Pressione di scoppio: 45.000.000 Pa (45 bar)
Temperatura d'esercizio	Da -25 a +95 °C
Pressioni di collasso degli elementi filtranti	1.000.000 Pa (10 bar)
Pressione taratura valvola di by-pass	Ritorno: 170.000 Pa ±10% (1.7 bar) (inizio apertura) Aspirazione: 25.000 Pa ±10% (0.25 bar) (inizio apertura)
Compatibilità con i liquidi - ISO 2943	Compatibili con oli minerali tipo (HH, HM, HR, HV, HG secondo ISO 6743/4)

WORKING CONDITIONS

Filter pressure	Max working pressure: 1.500.000 Pa (15 bar) Test pressure: 2.400.000 Pa (24 bar) Bursting pressure: 45.000.000 Pa (45 bar)
Working temperature	-25 to +95 °C
Collapse pressure (filter element)	1.000.000 Pa (10 bar)
By-pass valve setting pressure	Return: 170.000 Pa ±10% (1.7 bar) (starting of opening) Suction: 25.000 Pa ±10% (0.25 bar) (starting of opening)
Compatibily with hydraulic fluids ISO 2943	Compatible with mineral oils type (HH, HM, HR, HV, HG according to ISO 6743/4)

Le portate sono state calcolate per avere una perdita di carico Δp ≤40.000 Pa (0.4 bar) per i filtri sul ritorno e Δp ≤0.000 Pa (0.1 bar) per i filtri in aspirazione.
I valori sono stati ottenuti con olio minerale avente viscosità cinematica 30 cSt e densità 860 kg/m^3.
(vedi note a pag. 8)

Flows have been calculated just in order to obtain a pressure drop Δp ≤40.000 Pa (0.4 bar) for return lines and Δp ≤10.000 Pa (0.1 bar) for suction lines. The values have been obtained using mineral oil kinematic viscosity 30 cSt and 860 kg/m^3 density.
(See remarks on pag. 8)



PORTATE CONSIGLIATE
RECOMMENDED FLOWS

AFR	Elemento filtrante Filter element	Portata / Flow (l/min)		Peso Weight (kg)
		Aspirazione Suction	Ritorno Return	
30	C10	5	16	0,700
30	C25	8	20	0,700
30	F03	-	9	0,700
30	F06	-	10	0,700
30	F10	-	13	0,700
30	F25	-	17	0,700
30	R60 / R90	12	30	0,700
30	R250	15	30	0,700

Le portate sono state calcolate per avere una perdita di carico Δp ≤40.000 Pa (0.4 bar) per i filtri sul ritorno e Δp ≤10.000 Pa (0.1 bar) per i filtri in aspirazione.
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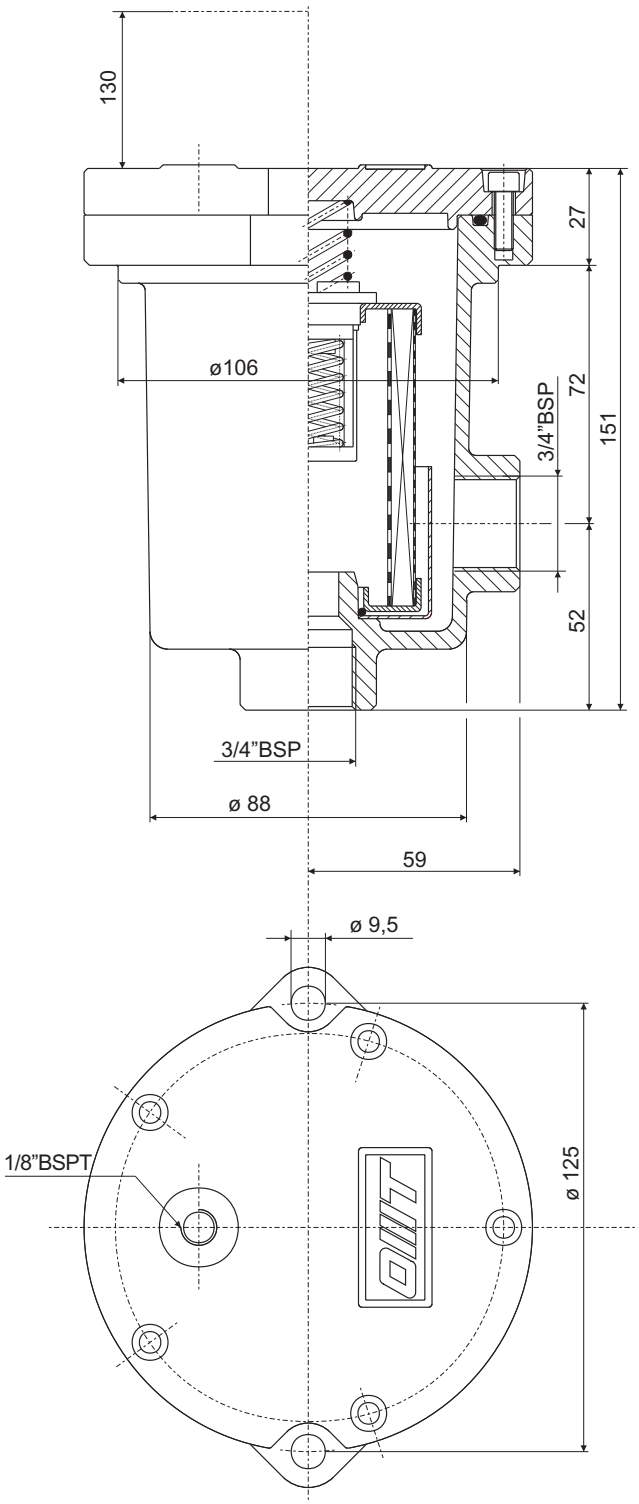

PORTATE CONSIGLIATE
RECOMMENDED FLOWS

AFR	Elemento filtrante Filter element	Portata / Flow (l/min)		Peso Weight (kg)
		Aspirazione Suction	Ritorno Return	
60	C10	15	49	1,200
60	C25	25	65	1,200
60	F03	-	27	1,200
60	F06	-	29	1,200
60	F10	-	32	1,200
60	F25	-	41	1,200
60	R60	27	68	1,200
60	R90	29	71	1,200
60	R250	30	71	1,200

Le portate sono state calcolate per avere una perdita di carico Δp ≤40.000 Pa (0.4 bar) per i filtri sul ritorno e Δp ≤10.000 Pa (0.1 bar) per i filtri in aspirazione.
I valori sono stati ottenuti con olio Minerale avente viscosità cinematica 30 cSt e densità 860 kg/m^3. (vedi note a pag. 8)

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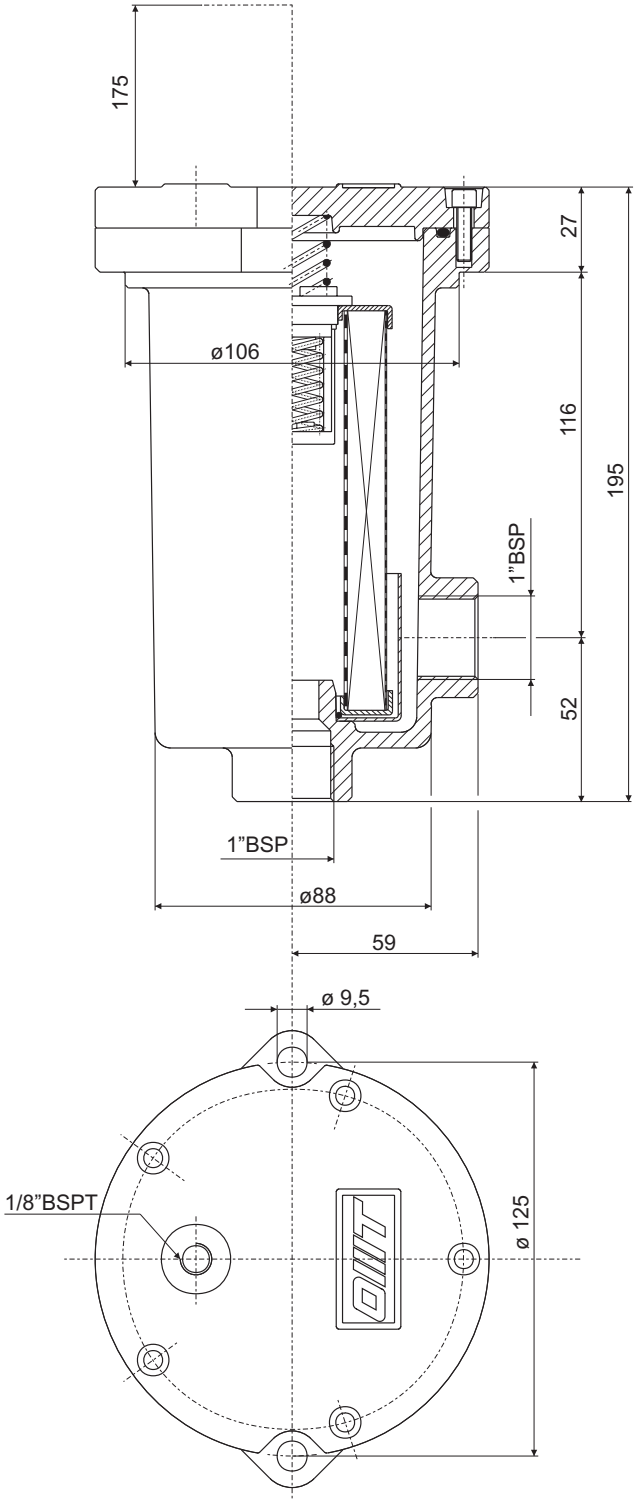
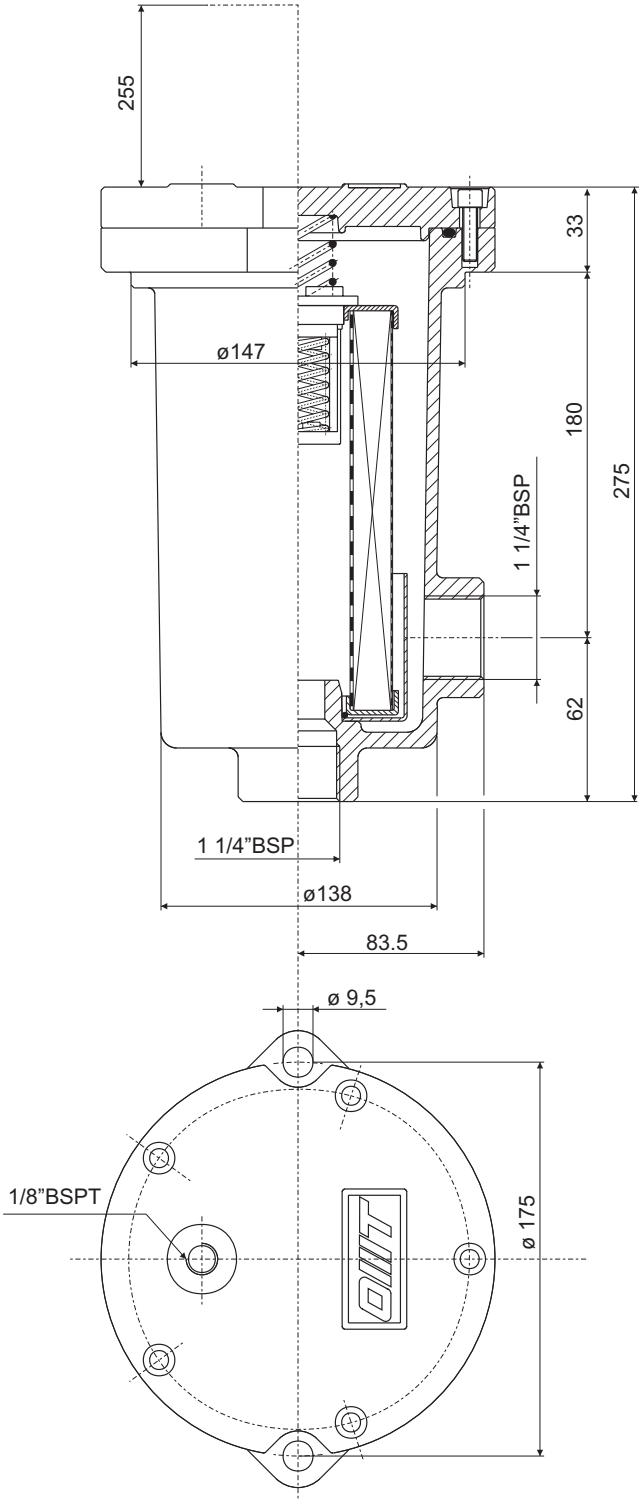


PORTATE CONSIGLIATE
RECOMMENDED FLOWS

AFR	Elemento filtrante Filter element	Portata / Flow (l/min)		Peso Weight (kg)
		Aspirazione Suction	Ritorno Return	
100	C10	22	85	1,450
100	C25	41	110	1,450
100	F03	-	36	1,450
100	F06	-	40	1,450
100	F10	-	56	1,450
100	F25	-	73	1,450
100	R60	47	110	1,450
100	R90	50	110	1,450
100	R250	50	110	1,450

Le portate sono state calcolate per avere una perdita di carico Δp ≤40.000 Pa (0.4 bar) per i filtri sul ritorno e Δp ≤10.000 Pa (0.1 bar) per i filtri in aspirazione.
I valori sono stati ottenuti con olio Minerale avente viscosità cinematica 30 cSt e densità 860 kg/m^3. (vedi note a pag. 8)

Flows have been calculated just in order to obtain a pressure drop Δp ≤40.000 Pa (0.4 bar) for return lines and Δp ≤10.000 Pa (0.1 bar) for suction lines. The values have been obtained using mineral oil kinematic viscosity 30 cSt and 860 kg/m^3 density. (See remarks on pag. 8)



PORTATE CONSIGLIATE
RECOMMENDED FLOWS

AFR	Elemento filtrante Filter element	Portata / Flow (l/min)		Peso Weight (kg)
		Aspirazione Suction	Ritorno Return	
180	C10	53	150	3,5
180	C25	60	189	3,5
180	F03	-	94	3,5
180	F06	-	104	3,5
180	F10	-	123	3,5
180	F25	-	131	3,5
180	R60	69	200	3,5
180	R90	72	200	3,5
180	R250	80	200	3,5

Cadute di Pressione
(conformi a ISO 3968)

Pressure Drops
(according to ISO 3968)

La caduta di pressione del filtro completo si ottiene sommando la caduta di pressione del corpo filtro e quella dell'elemento filtrante.

Cadute di pressione nel corpo filtro

Le curve sono valide con olio minerale avente massa volumica di 860 kg/m^3. La caduta di pressione è direttamente proporzionale alla massa volumica.

Cadute di pressione negli elementi filtranti

Le curve sono valide con olio minerale avente viscosità cinematica di 30 cSt. La variazione di caduta di pressione è proporzionale alla viscosità cinematica.

The pressure drop of the complete filter is calculated by adding the pressure drop of the housing to the one of the filter element.

Pressure drops in the housing

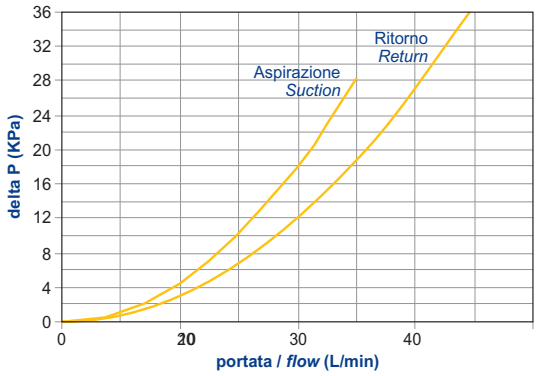
The graphics refer to the use of mineral oil with a mass density of 860 kg/m^3. The pressure drop is directly proportional to the mass density.

Pressure drops in the filter elements

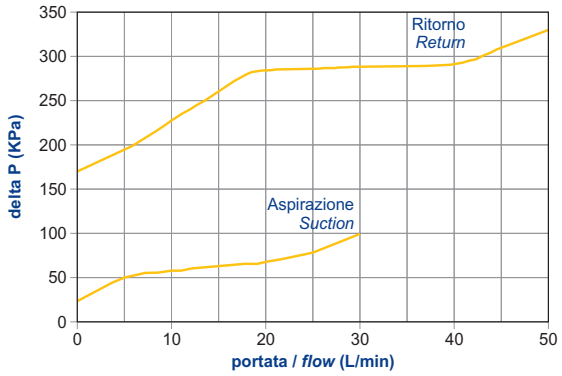
The graphics refer to mineral oil with a kinematic viscosity of 30 cSt. The variation of the pressure drop is proportional to the kinematic viscosity.

AFR serie/series 30

ΔP CORPI / ΔP HOUSINGS



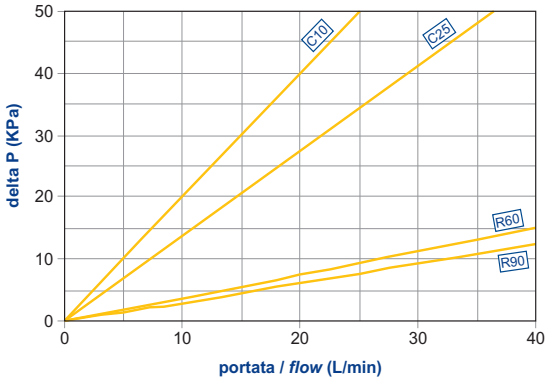
BY-PASS / BY-PASS

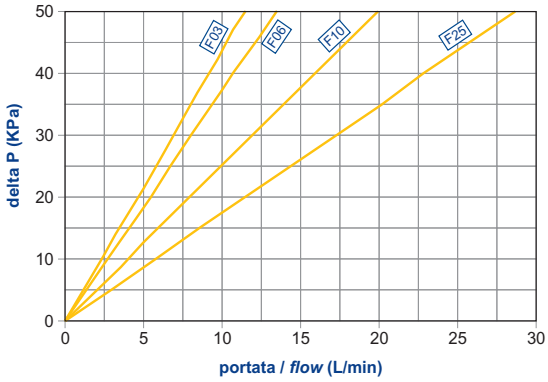


ΔP ELEMENTI (ritorno)

tipo CR091 (R) series

ΔP ELEMENTS (return)

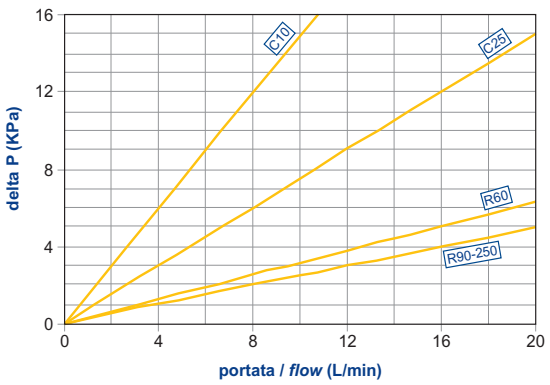




ΔP ELEMENTI (aspirazione)

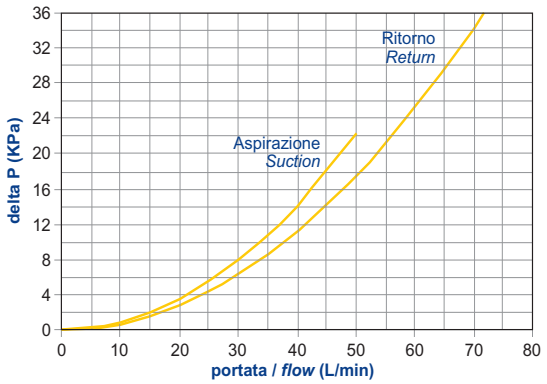
tipo CR091 (A) series

ΔP ELEMENTS (suction)

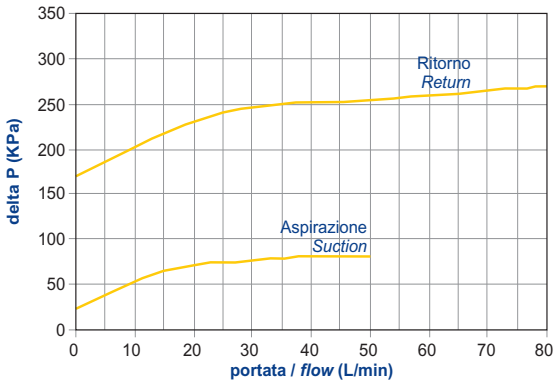


AFR serie/series 60

ΔP CORPI / ΔP HOUSINGS



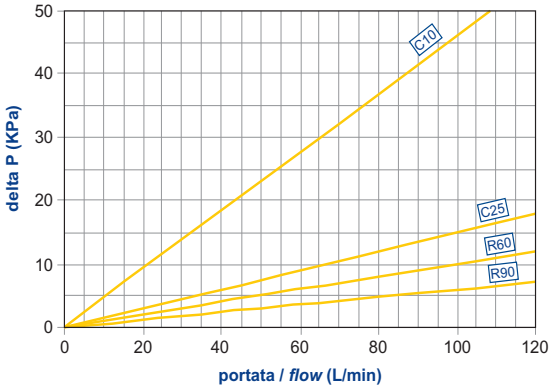
BY-PASS / BY-PASS

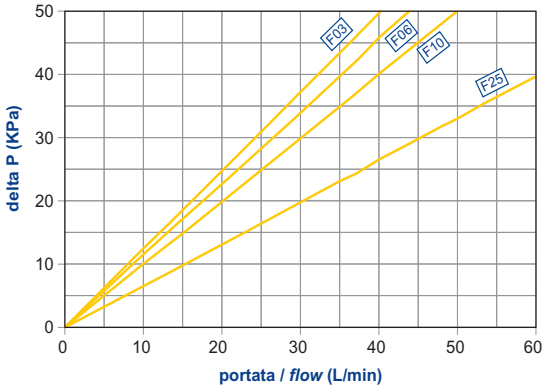


ΔP ELEMENTI (ritorno)

tipo CR111 (R) series

ΔP ELEMENTS (return)

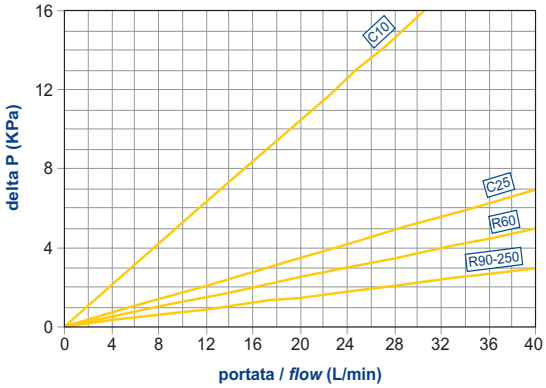




ΔP ELEMENTI (aspirazione)

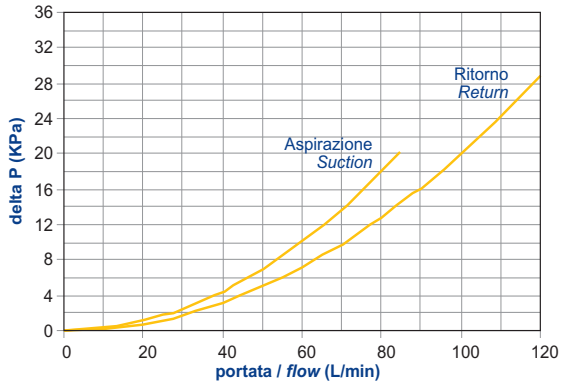
tipo CR111 (A) series

ΔP ELEMENTS (suction)

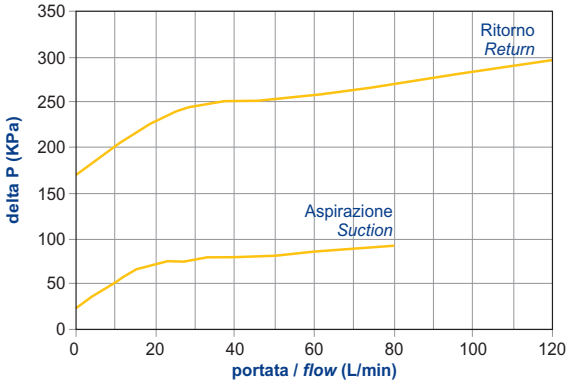


AFR serie/series 100

ΔP CORPI / ΔP HOUSINGS



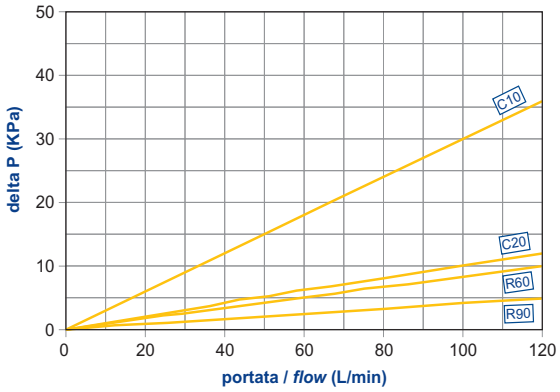
BY-PASS / BY-PASS

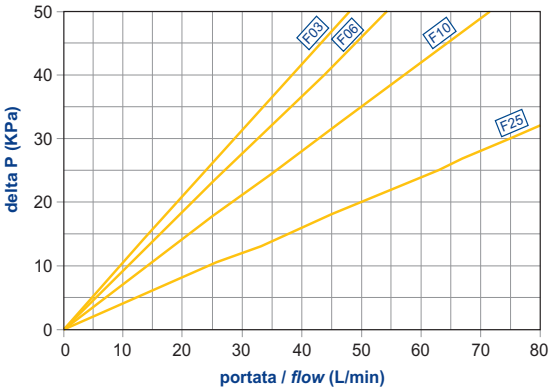


ΔP ELEMENTI (ritorno)

tipo CR112 (R) series

ΔP ELEMENTS (return)

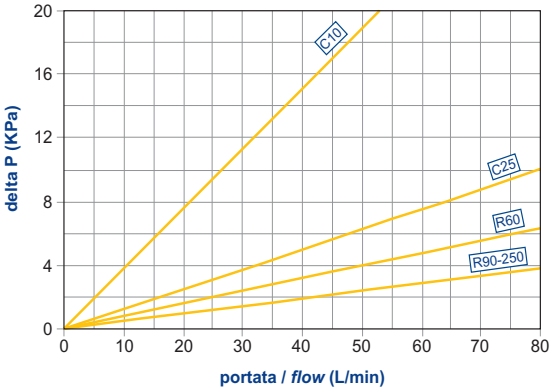




ΔP ELEMENTI (aspirazione)

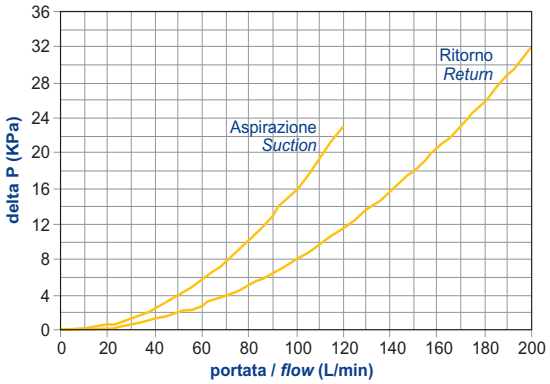
tipo CR112 (A) series

ΔP ELEMENTS (suction)

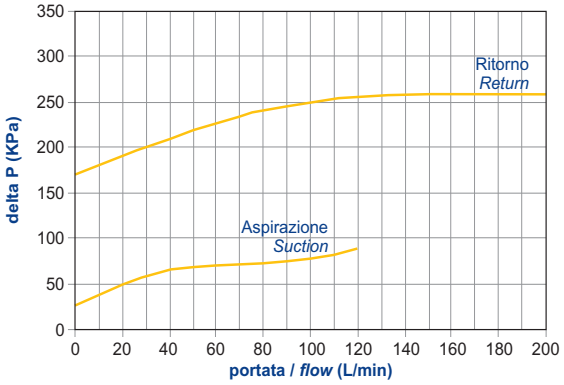


AFR serie/series 180

ΔP CORPI / ΔP HOUSINGS



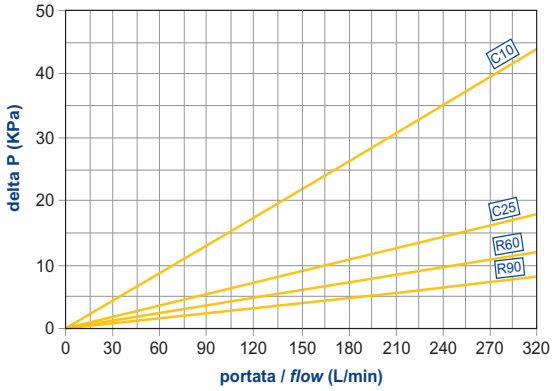
BY-PASS / BY-PASS

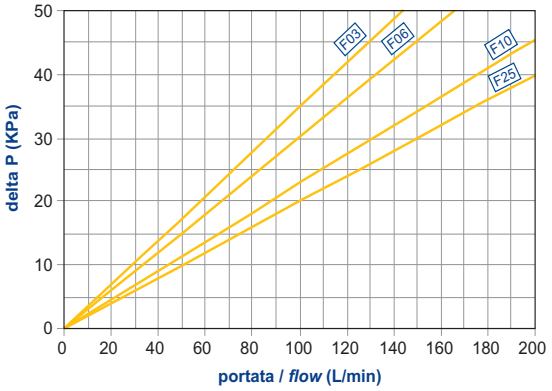


ΔP ELEMENTI (ritorno)

tipo CR171 (R) series

ΔP ELEMENTS (return)

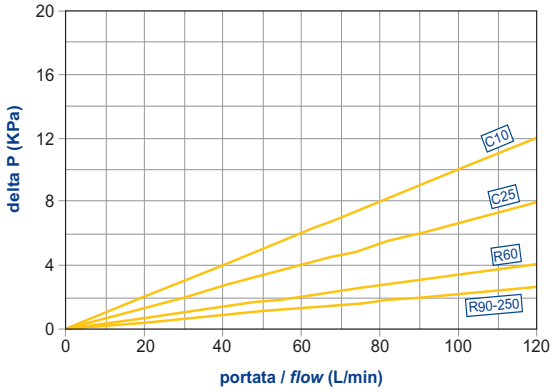




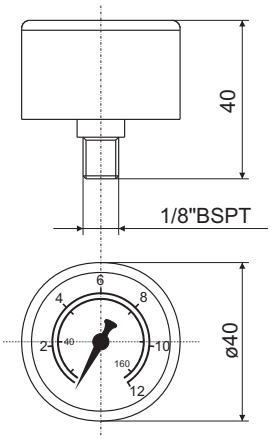
ΔP ELEMENTI (aspirazione)

tipo CR171 (A) series

ΔP ELEMENTS (suction)

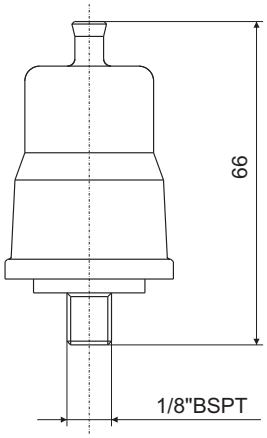


PV1



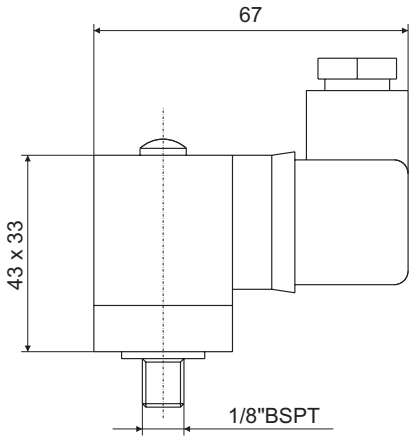
MANOMETRO
PRESSURE GAUGE

PE1 - PE2



PRESSOSTATO CON CONTATTI N.A. O N.C.
PRESSURE SWITCH WITH CONTACTS N.O. OR N.C.

PE3



PRESSOSTATO A MEMBRANA REGOLABILE CON CONTATTI IN SCAMBIO
PRESSURE SWITCH WITH CHANGEOVER CONTACTS

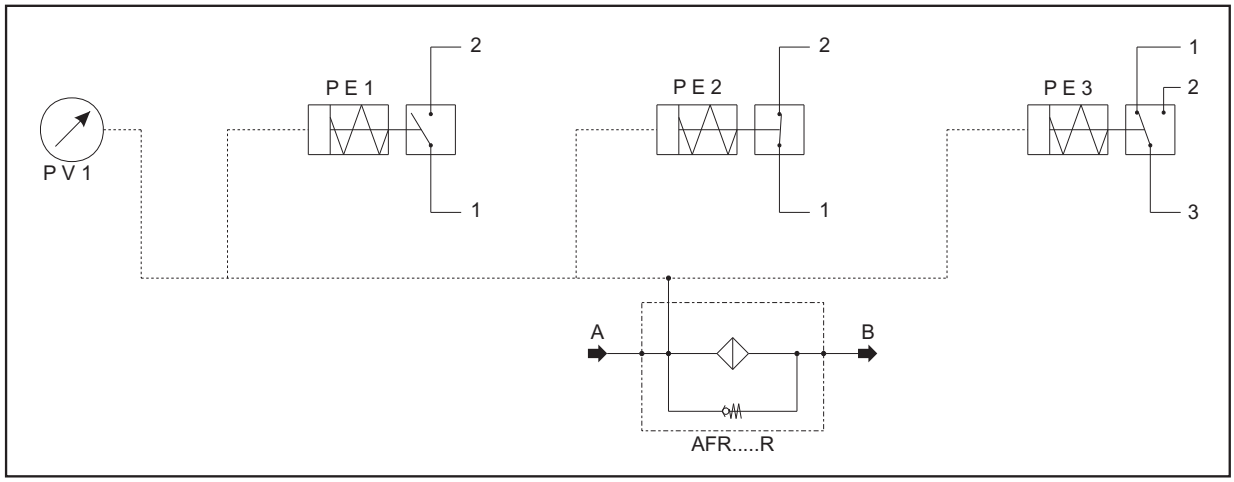
CARATTERISTICHE TECNICHE
TECHNICAL DATA

Codice Part number	Descrizione Description	Scala taratura Setting	Contatti elettrici Electrical Contacts	Tipo Type
PV1	visivo visual	0-120000 Pa (0-12 bar)	-	Puntuale On the spot
PE1	elettrico electrical	130000 Pa (1,3 bar)	N.A. / N.O.	
PE2			N.C.	
PE3			Scambio Changeover	

CARATTERISTICHE ELETTRICHE
ELECTRICAL DATA

Codice Part number	Tensione max di lavoro (V) Max feeder voltage (V)	Carico resistivo (A) Resistive load (A)	Carico induttivo (A) Inductive load (A)	Protezione (completo) Protection (complete)
PE1	C.A. 48	0,5	0,2	IP 00
PE2	C.A. 48	0,5	0,2	IP 00
PE3	C.A. 250	3	2	IP 65 DIN40050

SIMBOLOGIA / SIMBOLOGY



CODICE PER L'ORDINAZIONE DEL FILTRO COMPLETO
HOW TO ORDER THE COMPLETE FILTER

AFR 100 F03 N R

Grandezza nominale filtro completo Nominal Size complete filter	Grandezza nominale Elemento filtrante Nominal size Replacement element
30	091
60	111
100	112
180	171

		Elemento filtrante Filtration Elements
-		Senza elemento filtrante Without filtration elements
C10	10 µm	Carta trattata con resine ßx≥2 Resin treated cellulose ßx≥2
C25	25 µm	Carta trattata con resine ßx≥2 Resin treated cellulose ßx≥2
F03	3 µm	Fibre inorganiche ßx≥200 Inorganic fibre ßx≥200
F06	6 µm	Fibre inorganiche ßx≥200 Inorganic fibre ßx≥200
F10	10 µm	Fibre inorganiche ßx≥200 Inorganic fibre ßx≥200
F25	25 µm	Fibre inorganiche ßx≥200 Inorganic fibre ßx≥200
R60	60 µm	Rete a maglia quadra (Aisi 304) Square mesh (Aisi 304)
R90	90 µm	Rete a maglia quadra (Aisi 304) Square mesh (Aisi 304)
R250	250 µm	Rete a maglia quadra (Aisi 304) Square mesh (Aisi 304)

Guarnizioni Seals	
N	Nitrile / Buna-N
V	Viton

Valvola di By-pass By-pass valve	
S	Senza by-pass Without by-pass
R	By-pass sul ritorno Return by-pass Δp 1,7 bar
A	By-pass in aspirazione Suction by-pass Δp 0,25 bar

Opzione A disponibile solo per elementi filtranti in rete e carta

A option available only for wire mesh and cellulose filter element

CR 112 F03 R

Codice per l'ordinazione dell'elemento filtrante di ricambio
How to order the replacement element

* Per l'ordinazione degli indicatori di intasamento, guardare pag. 12
* See page 12 for information how to order clogging indicators

ELEMENTO FILTRANTE
FILTRATION ELEMENTS

Codici vecchi Old codes	Codici nuovi New codes
CA30AR	CR091C10R
CA30BR	CR091C25R
CA30CR	CR091R60R
CA30UR	CR091R90R
CA30GR	CR091F10R
CA30HR	CR091F25R

Codici vecchi Old codes	Codici nuovi New codes
CA30AA	CR091C10A
CA30BA	CR091C25A
CA30CA	CR091R60A
CA30UA	CR091R90A

Codici vecchi Old codes	Codici nuovi New codes
CA30AS	CR091C10S
CA30BS	CR091C25S
CA30CS	CR091R60S
CA30US	CR091R90S
CA30GS	CR091F10S
CA30HS	CR091F25S

Codici vecchi Old codes	Codici nuovi New codes
CA60AR	CR111C10R
CA60BR	CR111C25R
CA60CR	CR111R60R
CA60UR	CR111R90R
CA60GR	CR111F10R
CA60HR	CR111F25R

Codici vecchi Old codes	Codici nuovi New codes
CA60AA	CR111C10A
CA60BA	CR111C25A
CA60CA	CR111R60A
CA60UA	CR111R90A

Codici vecchi Old codes	Codici nuovi New codes
CA60AS	CR111C10S
CA60BS	CR111C25S
CA60CS	CR111R60S
CA60US	CR111R90S
CA60GS	CR111F10S
CA60HS	CR111F25S

Codici vecchi Old codes	Codici nuovi New codes
CA100AR	CR112C10R
CA100BR	CR112C25R
CA100CR	CR112R60R
CA100UR	CR112R90R
CA100GR	CR112F10R
CA100HR	CR112F25R

Codici vecchi Old codes	Codici nuovi New codes
CA100AA	CR112C10A
CA100BA	CR112C25A
CA100CA	CR112R60A
CA100UA	CR112R90A

Codici vecchi Old codes	Codici nuovi New codes
CA100AS	CR112C10S
CA100BS	CR112C25S
CA100CS	CR112R60S
CA100US	CR112R90S
CA100GS	CR112F10S
CA100HS	CR112F25S

Codici vecchi Old codes	Codici nuovi New codes
CA180AR	CR171C10R
CA180BR	CR171C25R
CA180CR	CR171R60R
CA180UR	CR171R90R
CA180GR	CR171F10R
CA180HR	CR171F25R

Codici vecchi Old codes	Codici nuovi New codes
CA180AA	CR171C10A
CA180BA	CR171C25A
CA180CA	CR171R60A
CA180UA	CR171R90A

Codici vecchi Old codes	Codici nuovi New codes
CA180AS	CR171C10S
CA180BS	CR171C25S
CA180CS	CR171R60S
CA180US	CR171R90S
CA180GS	CR171F10S
CA180HS	CR171F25S

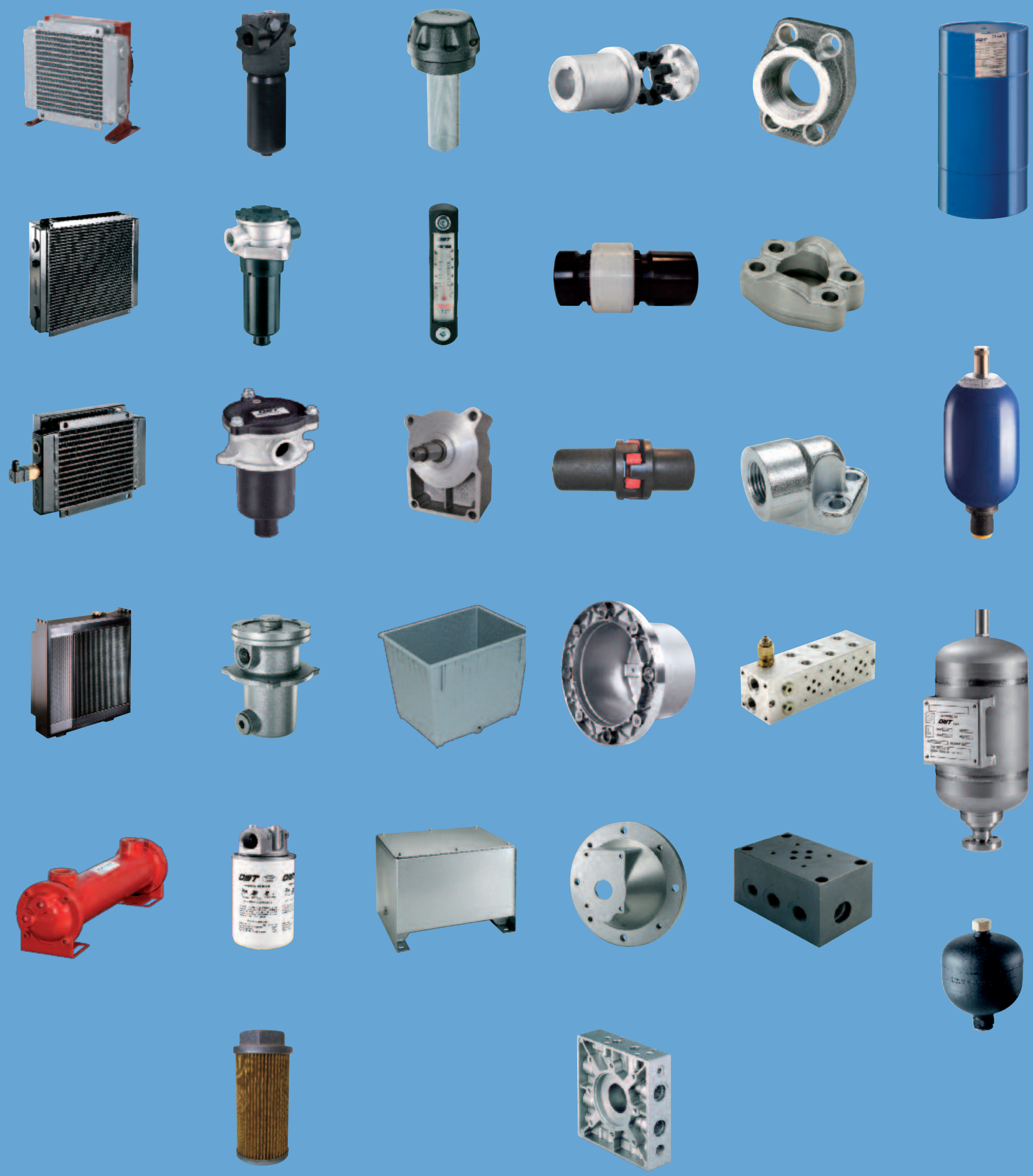
FILTRO COMPLETO
COMPLETE FILTER

Codici vecchi Old codes	Codici nuovi New codes
AFR_ _ _A_ _	AFR_ _ _C10_ _
AFR_ _ _B_ _	AFR_ _ _C25_ _
AFR_ _ _C_ _	AFR_ _ _R60_ _
AFR_ _ _U_ _	AFR_ _ _R90_ _
AFR_ _ _G_ _	AFR_ _ _F10_ _
AFR_ _ _H_ _	AFR_ _ _F25_ _

Esempio / Exemple

Codici vecchi Old codes	Codici nuovi New codes
AFR100CNR	AFR100R60NR

SCAMBIATORI HEAT EXCHANGERS	FILTRI FILTERS	ACCESSORI ACCESSORIES	COMPONENTI COMPONENTS	FLANGE/FLANGES RACCORDI/COUPLINGS BLOCCHI/MANIFOLDS	ACCUMULATORI ACCUMULATOR



OMT S.p.A. Via Lombardia, 14 - 24040 Calvenzano (Bg) ITALY - Tel. +39 0363 860311 - Fax +39 0363 335636
www.omtfiltri.com - omt@omtfiltri.com

03

Filtri - Filters

SERIE **OMTF** SERIES

Filtri sul ritorno
Return filters

CARATTERISTICHE TECNICHE
TECHNICAL DATA

CONDIZIONI DI ESERCIZIO

Pressioni corpo filtro	Pressione massima d'esercizio: 0.8 MPa (8 bar) Pressione di scoppio: 1.0 MPa (10 bar)
Temperatura d'esercizio	da -25 a +110°C
Compatibilità con i liquidi - ISO 2943	Compatibili con oli minerali tipo (HH, HM, HR, HV, HG secondo ISO 6743/4)

WORKING CONDITIONS

Filter pressure	Maximum working pressure 0.8 MPa (8 bar) Burst pressure: 1.0 MPa (10 bar)
Working temperature	-25 to +110 °C
Compatibily with hydraulic fluids ISO 2943	Compatible with mineral oils type (HH, HM, HR, HV, HG (according to ISO 6743/4)

CORPO FILTRO

Testina	Pressofusione di Alluminio
Contenitore	OMTF09-11-17: Nylon caricato vetro OMTF22: Acciaio con trattamento cataforesi
Attacchi	½"÷2" BSP (altre filettature su richiesta)
Guarnizioni	N: Nitrilica (Buna-N)

FILTER HOUSING

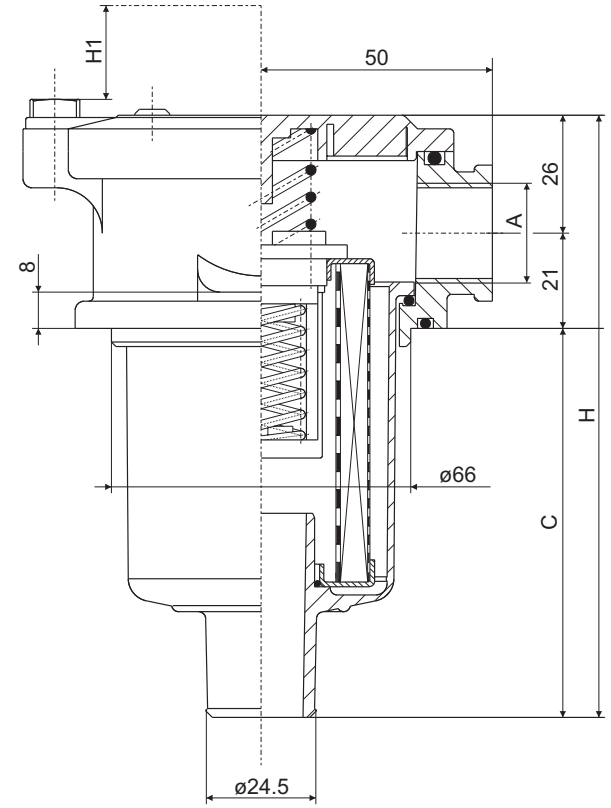
Head/Cover	Die-Casting Aluminium
Filter bowl	OMTF09-11-17: Glass reinforced nylon OMTF22: Cataphoresis treated steel
Connection Ports	½"÷2" BSP (other sizes on request)
Seals	N: Nitrile (Buna-N)

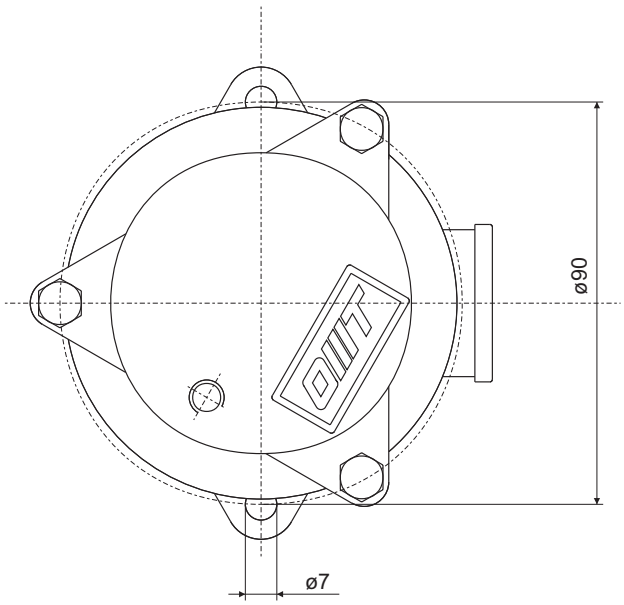
ELEMENTO FILTRANTE

Fondelli	Lamiera zincata
Tubo di sostegno	Ferro zincato
Materiale Filtrante	Carta, Fibra Inorganica, Tela (AISI304)
Taratura Valvola By-Pass	0.17 MPa ± 10% (1.7bar)

FILTER ELEMENT

End caps	Galvanized sheet
Support tube	Galvanized Steel
Filtration Media	Paper, inorganic Fiberglass, Wire Mesh (AISI304)
Setting By-Pass Valve	0.17 MPa ± 10% (1.7bar)





ATTACCHI
CONNECTION PORTS

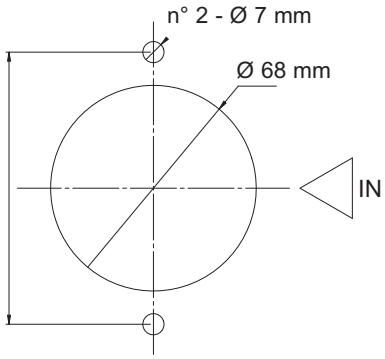
Tipo / Type	A
	1/2" BSP

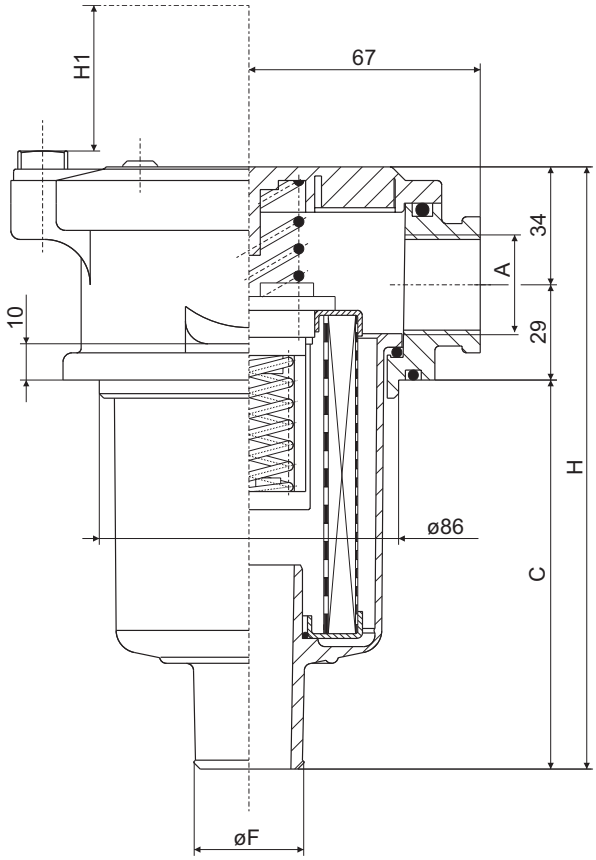
LUNGHEZZE E PESO
LENGTHS AND WEIGHT

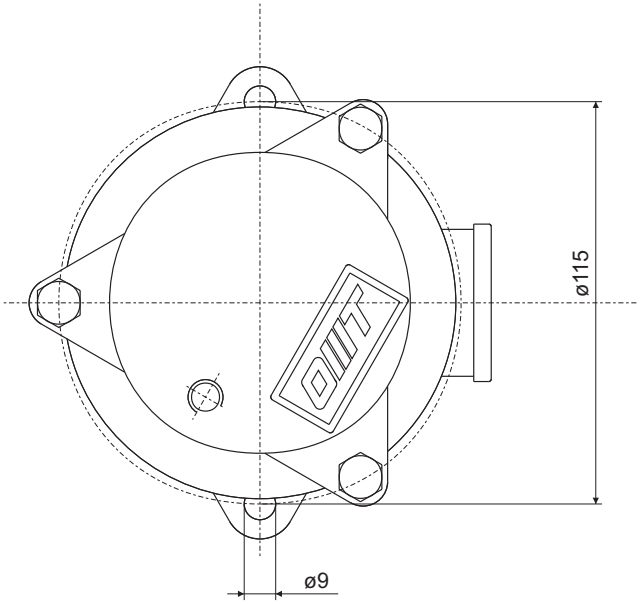
Tipo / Type	C	H	H1	Peso (Kg) Weight (Kg)
1	85	132	110	0,400

FORATURA SERBATOIO
TANK MOUNTING PATTERN

Serie 09 / Series 09







ATTACCHI
CONNECTION PORTS

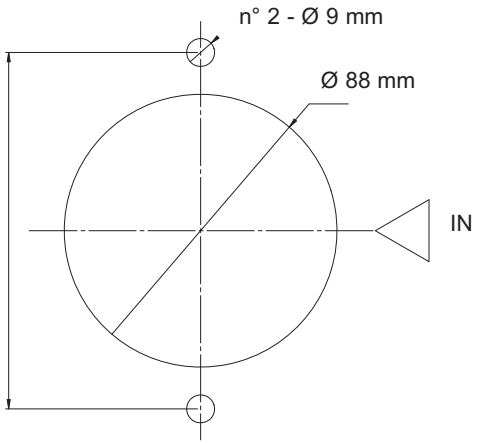
Tipo / Type	A
	1/2” BSP
1	3/4” BSP
2	1” BSP

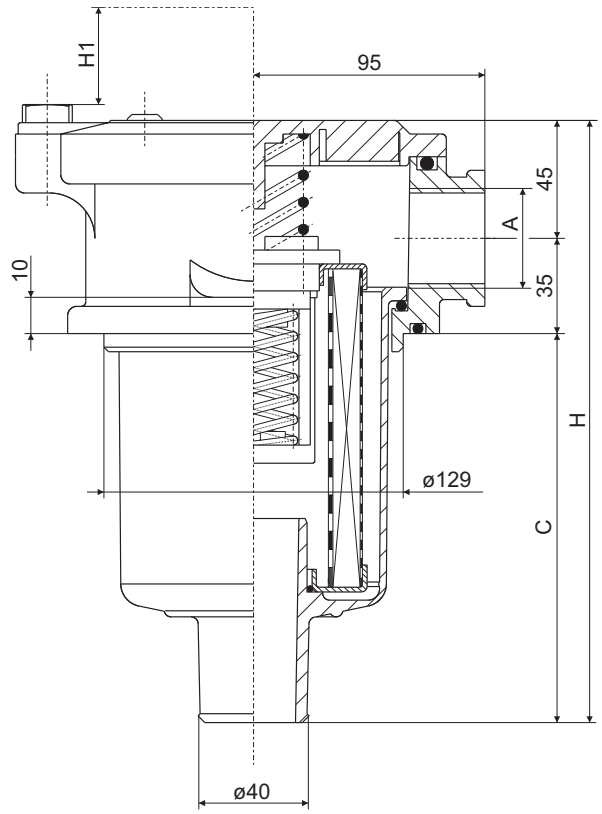
LUNGHEZZE E PESO
LENGTHS AND WEIGHT

Tipo / Type	C	H	H1	ØF	Peso (Kg) Weight (Kg)
1	92	155	130	30	0,715
2	150	213	190	30	0,770
3	232	295	270	40	0,830

FORATURA SERBATOIO
TANK MOUNTING PATTERN

Serie 11 / Series 11



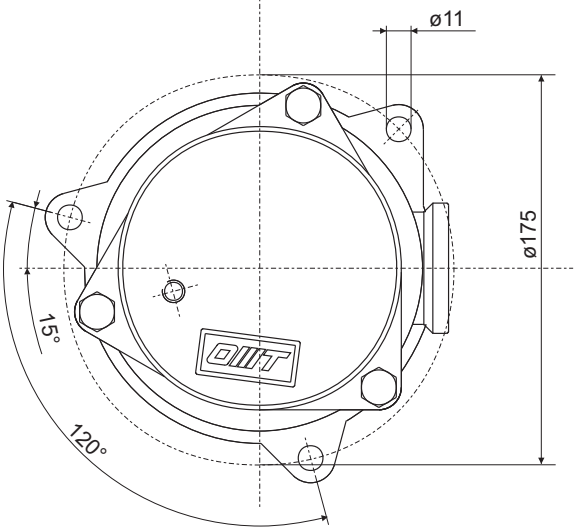


ATTACCHI
CONNECTION PORTS

Tipo / Type	A
	1" BSP
1	1 1/4" BSP

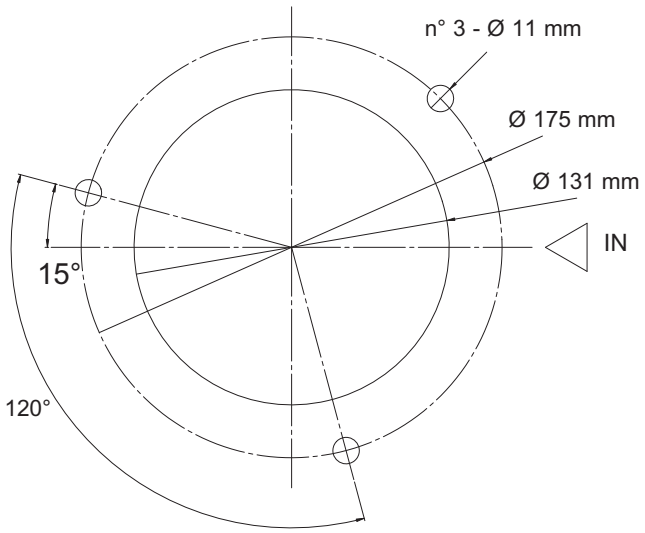
LUNGHEZZE E PESO
LENGTHS AND WEIGHT

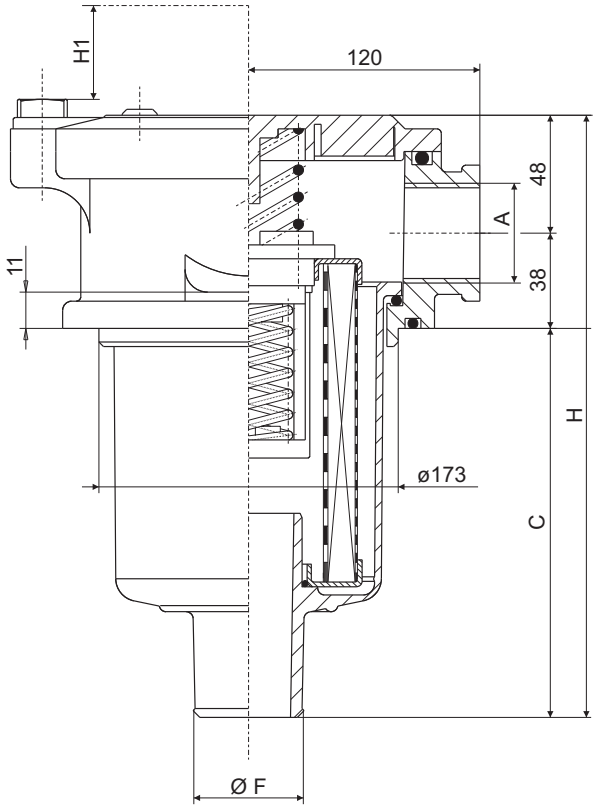
Tipo / Type	C	H	H1	Peso (Kg) Weight (Kg)
1	244	323	255	1,940



FORATURA SERBATOIO
TANK MOUNTING PATTERN

Serie 17 / Series 17





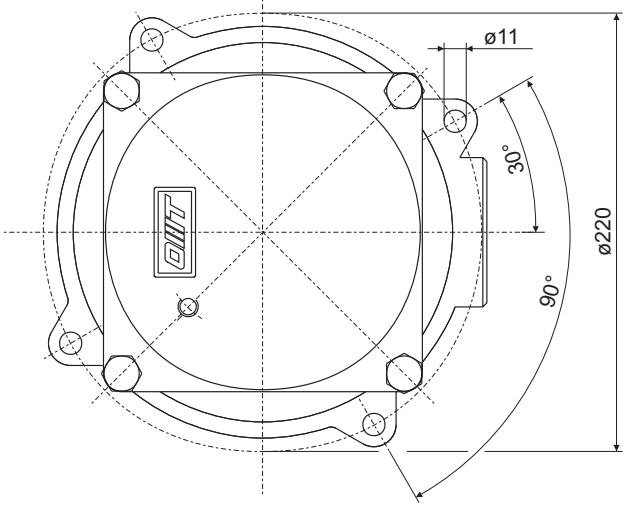
ATTACCHI
CONNECTION PORTS

Tipo / Type	A
	1 1/4" BSP
1	1 1/2" BSP
2	2" BSP

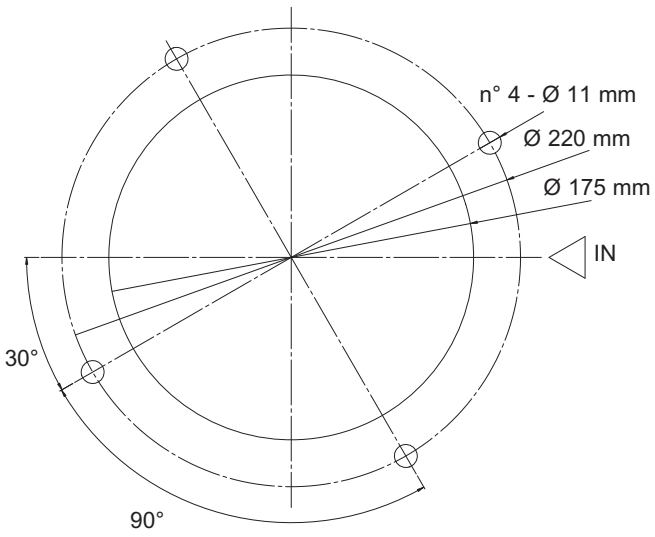
LUNGHEZZE E PESO
LENGTHS AND WEIGHT

Tipo / Type	C	H	H1	ØF	Peso (Kg) Weight (Kg)
1	176	262	210	51	3,250
2	236	322	260	51	3,800
3	236	322	260	64	3,800
4	282	368	320	64	3,900

FORATURA SERBATOIO
TANK MOUNTING PATTERN



Serie 22 / Series 22

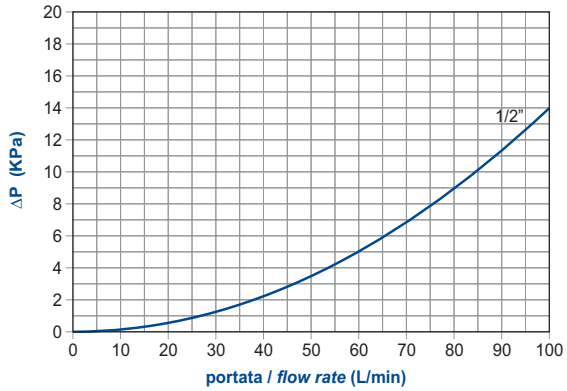


Il valore della caduta di pressione totale (Δp) si ottiene sommando, il valore Δp del corpo filtro e dell'elemento filtrante ad una data portata. Questo non deve idealmente superare 0.5 bar (7,3 psi) e non dovrebbe eccedere 1/3 del valore di taratura della valvola di by-pass.
La caduta di pressione dipende dalla viscosità dell'olio mediamente in maniera direttamente proporzionale.

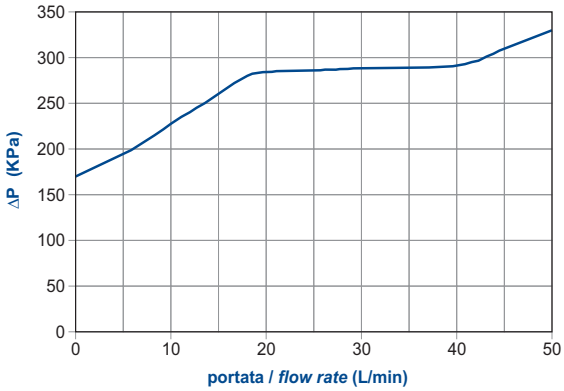
The total Pressure Drop (Δp) value is obtained by adding the Δp values of filter housing and filter element at the given flow rate.
This ideally should not exceed 0,5 bar (7,3 psi) and should never exceed 1/3 of the set value of the by-pass valve.
The Pressure Drop is affected by the oil viscosity in a roughly proportional way.

OMTF serie/series 09

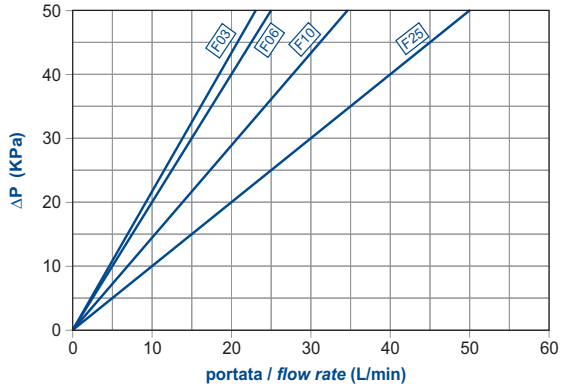
ΔP CORPI / ΔP HOUSINGS

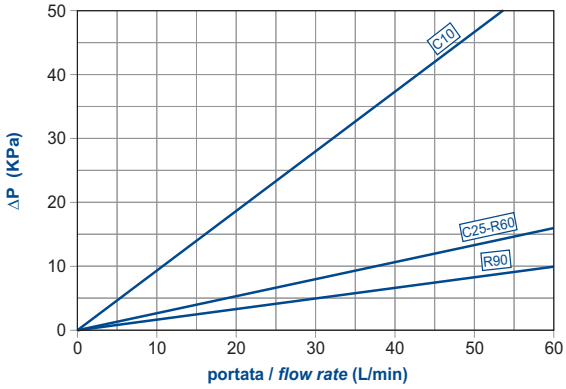


BY-PASS / BY-PASS



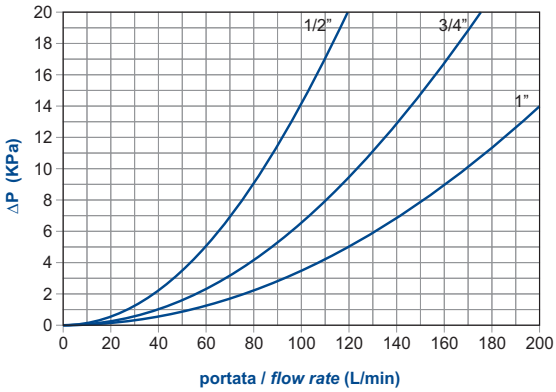
ΔP ELEMENTI — **tipo CR09 1 series** — **ΔP ELEMENTS**



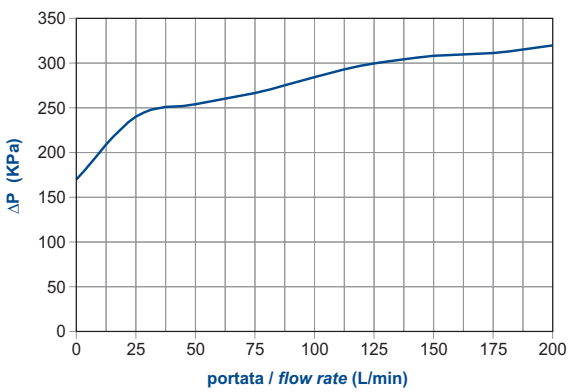


OMTF serie/series 11

ΔP CORPI / ΔP HOUSINGS

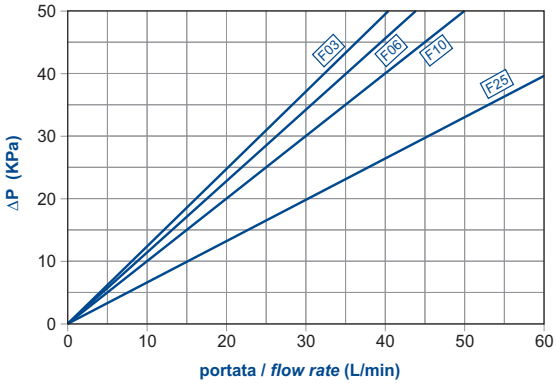


BY-PASS / BY-PASS

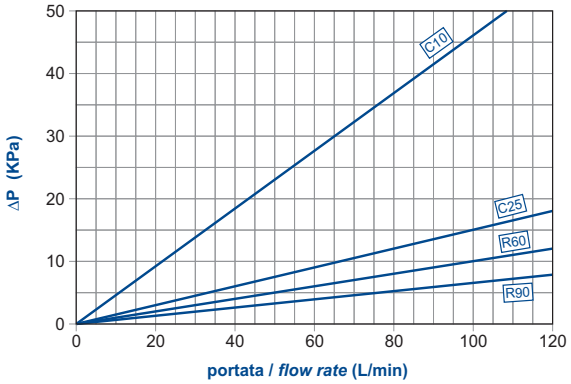


tipo CR11 1 series

ΔP ELEMENTI

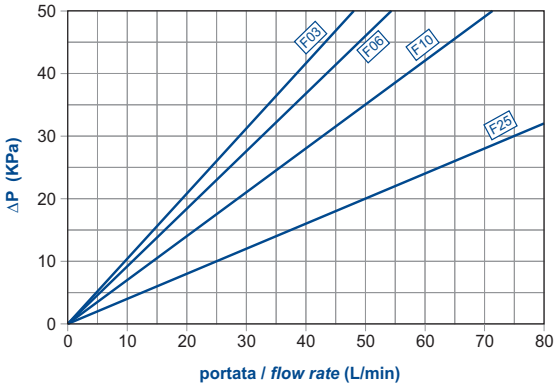


ΔP ELEMENTS

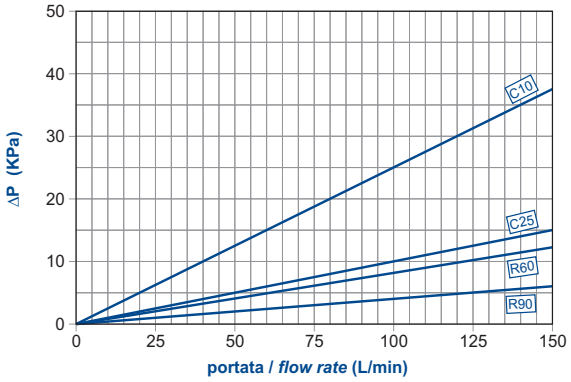


tipo CR11 2 series

ΔP ELEMENTI

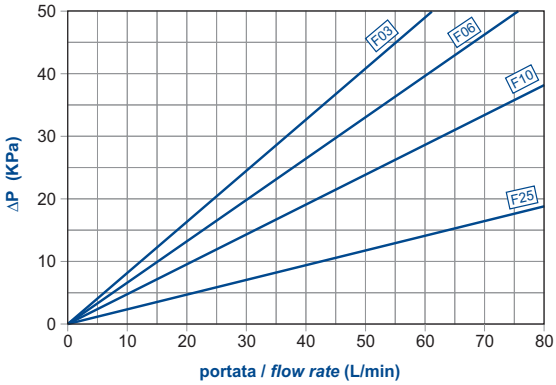


ΔP ELEMENTS

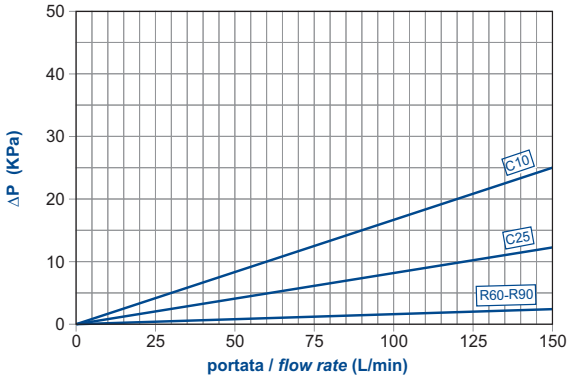


tipo CR11 3 series

ΔP ELEMENTI

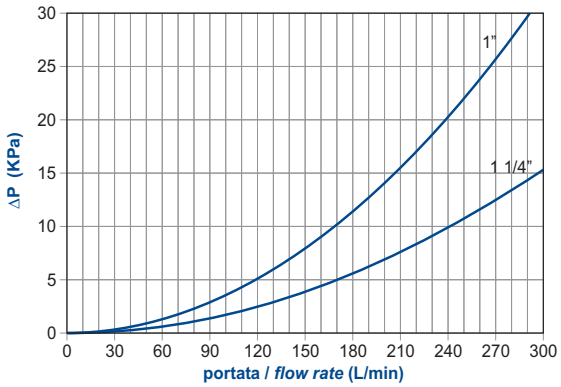


ΔP ELEMENTS

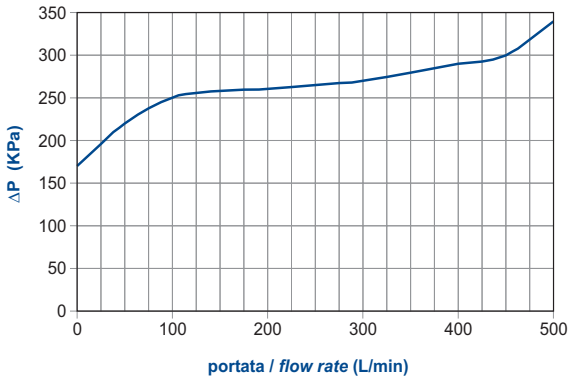


OMTF serie/series 17

ΔP CORPI / ΔP HOUSINGS

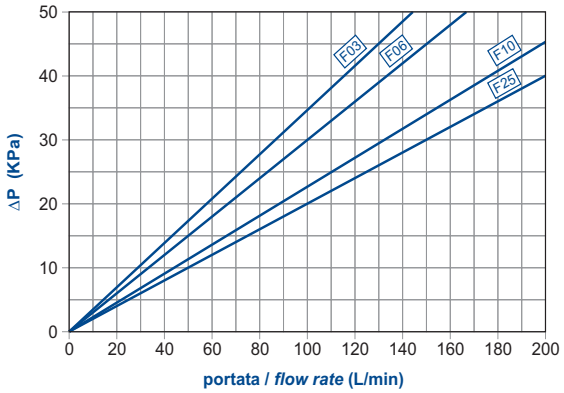


BY-PASS / BY-PASS

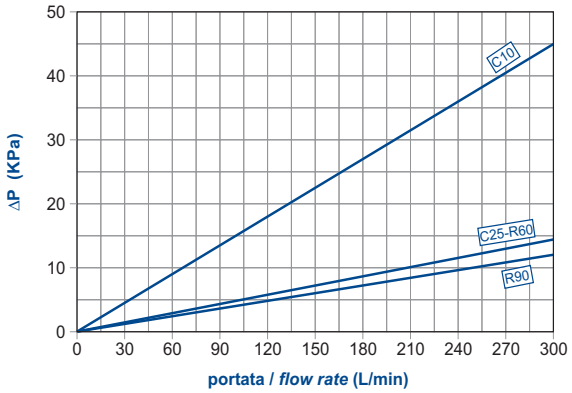


ΔP ELEMENTI

tipo CR17 1 series

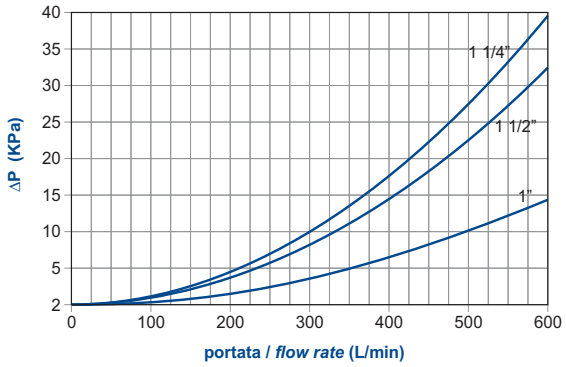


ΔP ELEMENTS

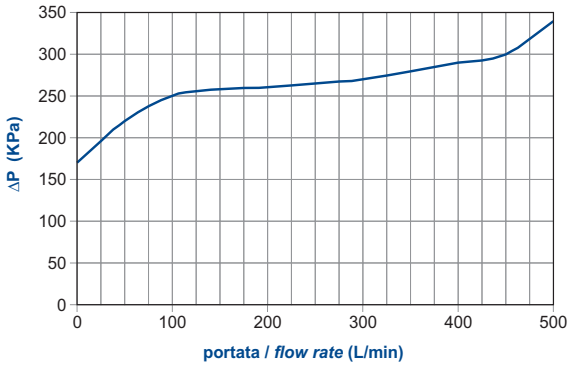


OMTF serie/series 22

ΔP CORPI / ΔP HOUSINGS

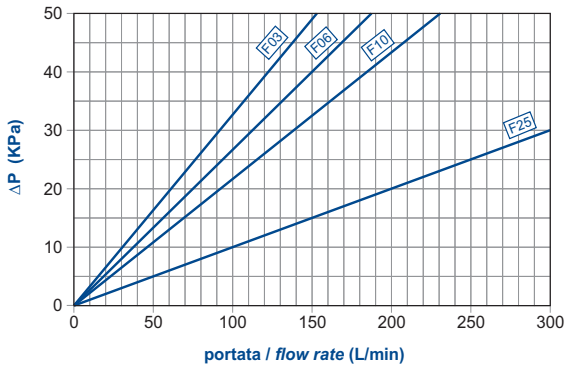


BY-PASS / BY-PASS

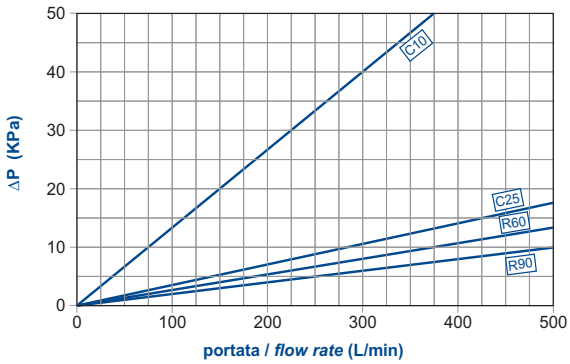


tipo CR22 1 series

ΔP ELEMENTI

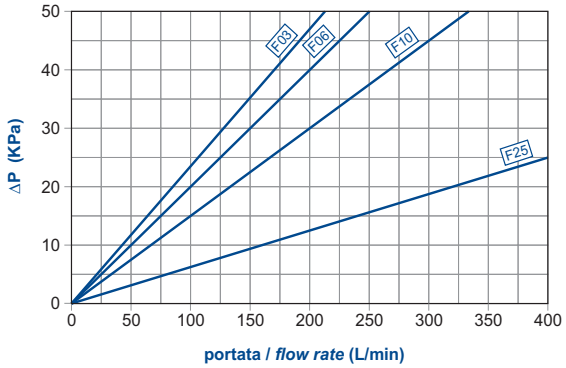


ΔP ELEMENTS

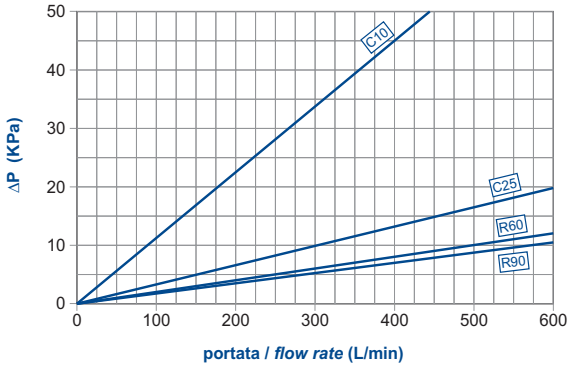


tipo CR22 2-3 series

ΔP ELEMENTI

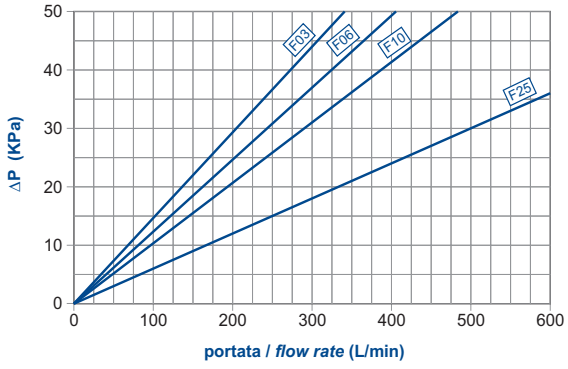


ΔP ELEMENTS

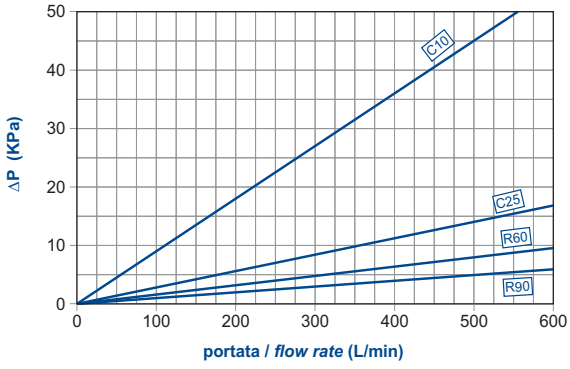


tipo CR22 4 series

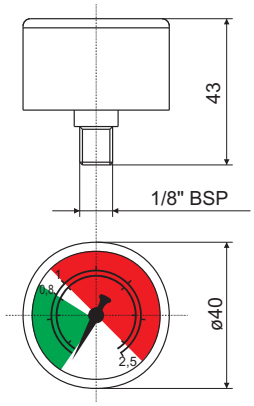
ΔP ELEMENTI



ΔP ELEMENTS

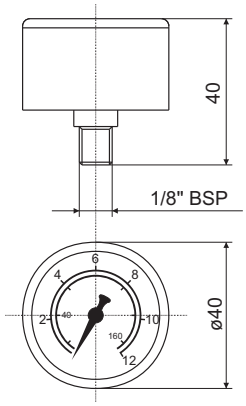


F10 - 001

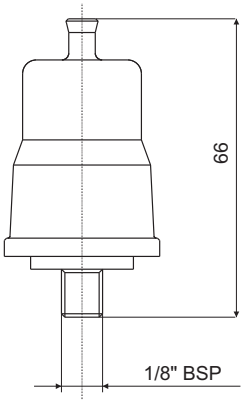


MANOMETRO
PRESSURE GAUGE

PV1

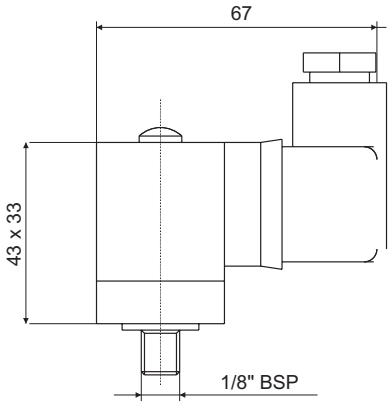


PE1 - PE2



PRESSOSTATO CON CONTATTI N.A. O N.C.
PRESSURE SWITCH WITH CONTACTS N.O. OR N.C.

PE3



PRESSOSTATO CON CONTATTI IN SCAMBIO
PRESSURE SWITCH WITH CHANGEOVER CONTACTS

NB. La caduta di pressione (Δp) attraverso il filtro cresce durante l'utilizzo. L'elemento filtrante deve essere sostituito quando l'indicatore lo segnala e prima che Δp raggiunga il valore di taratura della valvola di by-pass. Accertarsi che l'indicatore non dia un falso allarme in caso di partenza a freddo (alta viscosità dovuta a bassa temperatura).

NB. The Pressure Drop (Δp) through the filter increases during the system operation. The cartridge must be replaced when the indicator shows and before the Δp reaches the by-pass value setting. In cold start conditions a false alarm can be caused by higher oil viscosity due to low temperature.

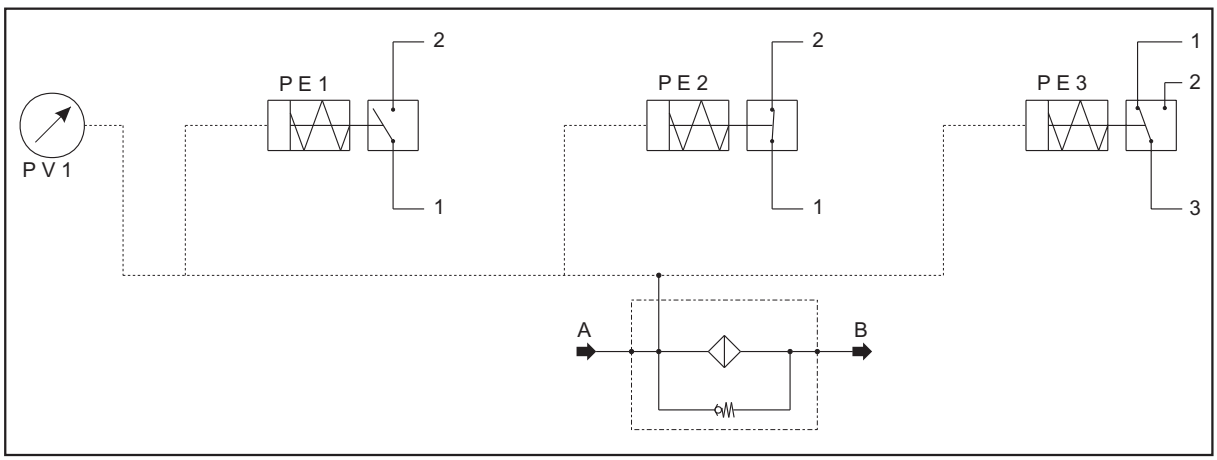
CARATTERISTICHE TECNICHE
TECHNICAL DATA

Codice Part number	Descrizione Description	Scala taratura Setting	Contatti elettrici Electrical Contacts	Tipo Type
F10-001	visivo visual	0-2,5 bar	-	Puntuale On the spot
PV1	visivo visual	0-12 bar	-	
PE1	elettrico electrical	1,3 bar	N.A. / N.O.	
PE2			N.C.	
PE3			Scambio Changeover	

CARATTERISTICHE ELETTRICHE
ELECTRICAL DATA

Codice Part number	Tensione max di alimen. (V) Max feeder voltage (V)	Carico resistivo (A) Resistive load (A)	Carico induttivo (A) Inductive load (A)	Protezione (completo) Protection (complete)
PE1	C.A. 48	0,5	0,2	IP 54
PE2	C.A. 48	0,5	0,2	IP 54
PE3	C.A. 250	3	2	IP 65 DIN40050

SIMBOLOGIA / SIMBOLOGY



CODIFICA FILTRI
FILTER CODIFICATION

OMTF 11 2 F03 N A 2

Grandezza nominale Nominal Size	Lunghezze Lenght
09	1
11	1;2;3
17	1
22	1;2;3;4

Elemento filtrante Filter Element		
-		Senza elemento filtrante Without filtration elements
C10	10 µm	Carta trattata con resine Resin treated cellulose
C25	25 µm	Carta trattata con resine Resin treated cellulose
F03	3 µm	Fibre inorganiche Inorganic fibre
F06	6 µm	Fibre inorganiche Inorganic fibre
F10	10 µm	Fibre inorganiche Inorganic fibre
F25	25 µm	Fibre inorganiche Inorganic fibre
R60	60 µm	Rete (Aisi 304) Whire mesh (Aisi 304)
R90	90 µm	Rete a maglia quadra (Aisi 304) Whire mesh (Aisi 304)

Guarnizioni Seals	
N	Nitrile / Buna-N

Predisposizioni coperchio Plug settings	
A	Sede indicatore 1/8" BSPT Indicator plug 1/8" BSPT
B*	Sede indicatore 1/8" NPT Indicator plug 1/8" NPT

* su richiesta / on demand

Valvola di By-pass By-pass valve	
R	By-pass Δp 1,7 bar

CR 11 2 F03 R

Codice per l'ordinazione dell'elemento filtrante di ricambio
Filter element code

ATTACCHI
CONNECTION PORTS

A	OMTF09	OMTF11	OMTF17	OMTF22
-	1/2" BSP	1/2" BSP	1" BSP	1 1/4" BSP
1		3/4" BSP	1 1/4" BSP	1 1/2" BSP
2		1" BSP		2" BSP

CODICE KIT GUARNIZIONI
SPARE SEAL KIT P/N

TIPO - TYPE	NBR - BUNA N
OMTF09	KIT - OMTF09
OMTF11	KIT - OMTF11
OMTF17	KIT - OMTF17
OMTF22	KIT - OMTF22

* Per l'ordinazione degli indicatori di intasamento, guardare pag. 10
* See page 10 for information how to order clogging indicators

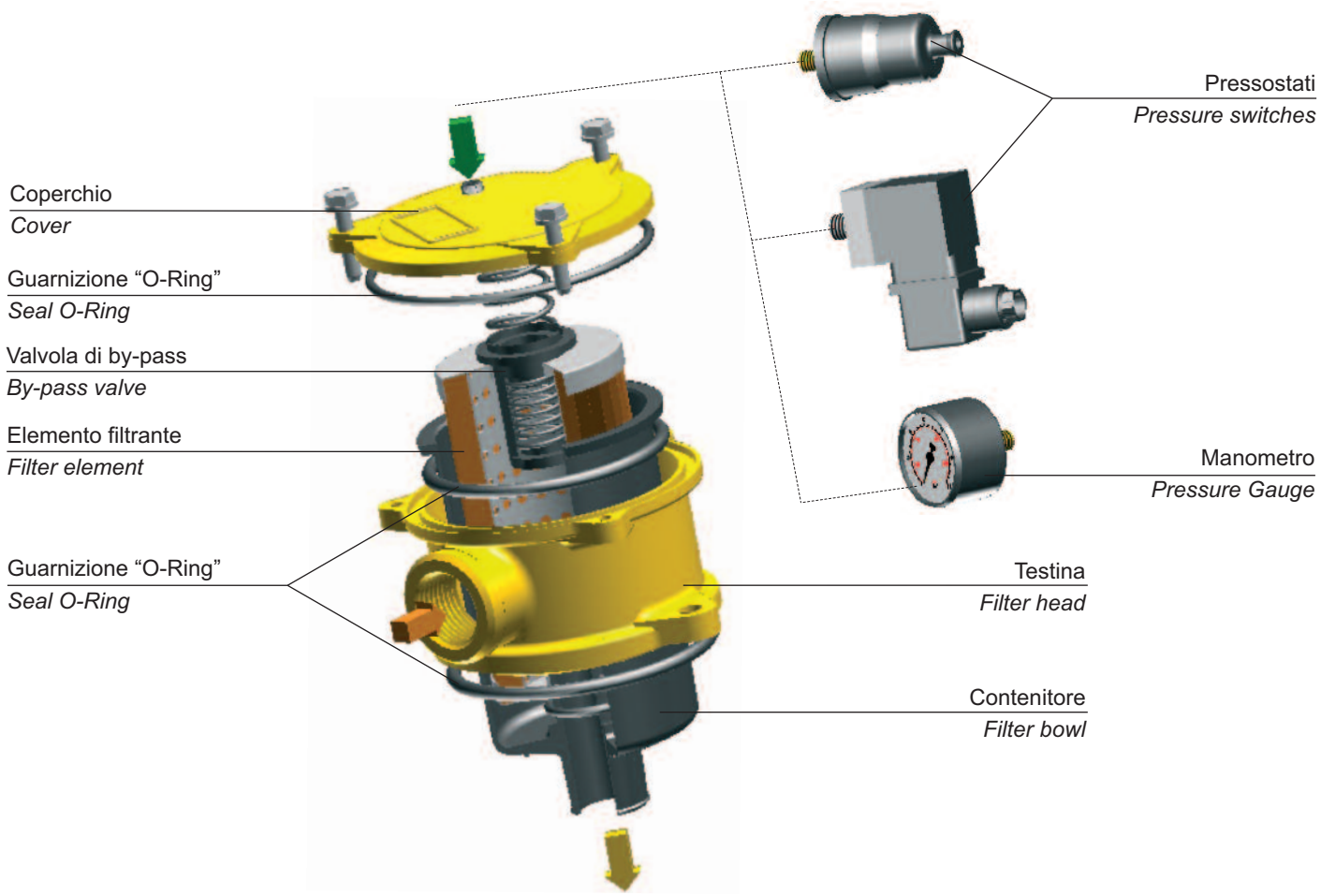
La OMT si riserva il diritto di cessare la produzione di qualsiasi modello, di variarne le specifiche tecniche e i disegni in ogni momento, senza preavviso e senza incorrere in obblighi. Il presente catalogo annulla e sostituisce i precedenti.

OMT reserves the right to stop manufacturing any model, to modify technical specifications or drawings whenever necessary, without previous notice and without incurring obligations of any kind. This catalogue cancels and replaces the previous ones.

CONSIGLI GENERALI - GENERAL TIPPS

1) Assicurarsi che il filtro sia usato secondo i parametri di pressione, temperatura e compatibilità illustrate in questo catalogo;
2) Sostituire l'elemento filtrante non appena l'indicatore attiva il segnale d'allarme alla temperatura d'esercizio. In caso nessun indicatore sia montato seguire le indicazioni dell'implantista;
3) Effettuare la manutenzione solo a sistema spento, assicurandosi che non vi sia pressione residua nel filtro;
4) Sostituire l'elemento filtrante esausto con una cartuccia OMT, verificando il codice;
5) Sostituire le guarnizioni del filtro lubrificando i filetti e avvitando con cura.

1) Check the filter is working according to pressure, temperature and oil compatibility, previously described in this catalogue;
2) Replace the filter element as soon as the clogging indicator switches the alarm signal at working tempeature. If no indicator is mounted, follow the istruction of the system manufacturer;
3) Perform the maintenance only when the system is switched off, ensuring that no residual pressure is present;
4) Replace the clogged filter element with a OMT cartridge, checking the part number;
5) Replace the filter gaskets, lubricating the threads and screwing whith care.



SCAMBIATORI
HEAT EXCHANGERS

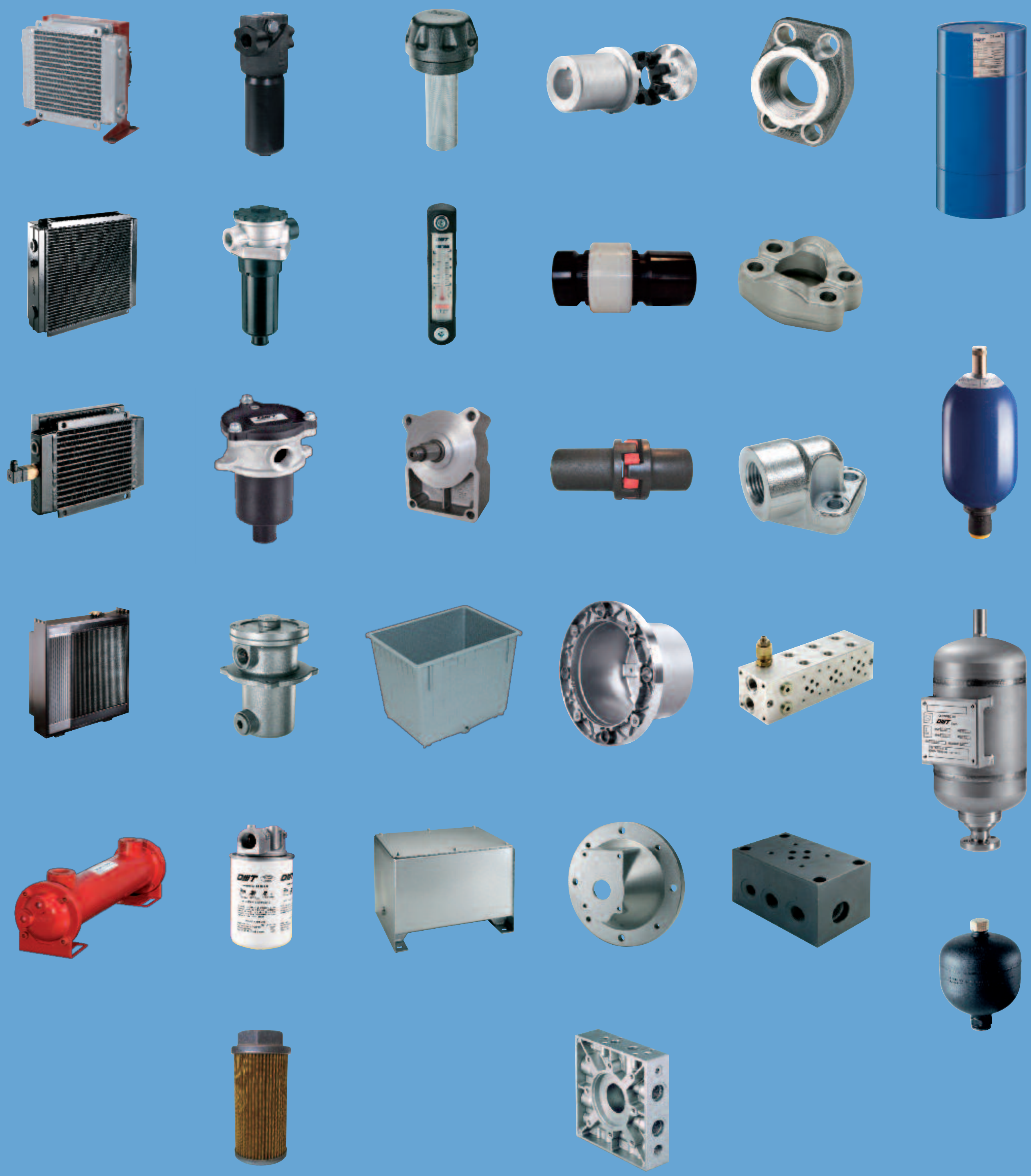
FILTRI
FILTERS

ACCESSORI
ACCESSORIES

COMPONENTI
COMPONENTS

FLANGE/FLANGES
RACCORDI/COUPLINGS
BLOCCHI/MANIFOLDS

ACCUMULATORI
ACCUMULATOR



OMT S.p.A. Via Lombardia, 14 - 24040 Calvenzano (Bg) ITALY - Tel. +39 0363 860311 - Fax +39 0363 335636
www.omtfiltri.com - omt@omtfiltri.com

OMT

SERIE **SPIN-ON** SERIES
Filtri in linea
Filters

FILTRI SERIE SPIN-ON
SPIN-ON FILTERS

DESCRIZIONE

I filtri in linea della serie OMTI con cartuccia avvitabile a perdere (SPIN-ON) sono adatti per essere applicati sia in aspirazione che sul ritorno di impianti idraulici e di lubrificazione sono disponibili con attacchi da 3/4" a 1.1/2" GAS oppure sui modelli tipo OMTI31 - OMTI36 con flangiatura SAE. I filtri FTT sono idonei esclusivamente per linee di ritorno. Le cartucce SPIN-ON possono essere fornite standard o con membrana antisvuotamento, così da impedire la fuoriuscita dell'olio durante la sostituzione.I filtri della serie OMTI e FTT possono ricevere sia cartucce di tipo standard Europeo sia di tipo Americano.

DATI TECNICI FILTRO COMPLETO
- Pressione massima di esercizio = 10 bar
- Pressione massima di collaudo = 18 bar
- Valvola by-pass in aspirazione tarata a 0.25 bar ± 10%
- Valvola by-pass sul ritorno tarata 1.7 bar ± 10%
- Temperatura di esercizio da -25°C a +95°C
- Compatibilità con oli idraulici verificata secondo ISO 2943
- Pressione differenz. di collasso della cartuccia = 5 bar secondo ISO 2941
- Attacchi filettati secondo UNI 388
- Testina eseguita in lega d'alluminio UNI 5076

ELEMENTI FILTRANTI
- A/B: carta trattata con resine con grado di filtrazione 10 e 25 micron ßx≥2
- F/N/G/H: Fibre inorganiche con grado di filtrazione da 3, 6, 10 e 25 micron ßx≥75
- C: rete metallica con grado di filtrazione da 60 micron
- E: rete a maglia in ottone con grado di filtrazione da 125 micron
- Efficienza di filtrazione multipass-test secondo ISO 4572

TIPI DI SEGNALATORE
- PV1: manometro con scala da 0 a 12 bar
- VV1: vuotometro con scala da 0 a -76cm Hg
- PE1: pressostato con contatti normalmente aperti con tartura 1,3 bar ± 10%
- PE2: pressostato con contatti normalmente chiusi con tartura 1,3 bar ± 10%
- VE1: vuotostato con contatti normalmente aperti con taratura 0,2 bar ± 10%
- DV131: indicatore differenziale visivo di intasamento con taratura 1,3 bar ± 10% (da montare esclusivamente su testina di tipo T31"-I")
- DV130: indicatore differenziale visivo di intasamento con taratura 1,3 bar ± 10% (da montare esclusivamente su testina di tipo T20"-I")
- DE131: indicatore differenziale visivo elettrico di intasam. con taratura 1,3 bar ± 10% (da montare esclusivamente su testina di tipo T31"-I")
- DE130: indicatore differenziale visivo elettrico di intasam. con taratura 1,3 bar ± 10% (da montare esclusivamente su testina di tipo T20"-I")
- PE3: pressostato a membrana regolabile con contatti in scambio con taratura 1,3 bar ± 10%

DESCRIPTION

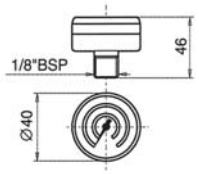
In line SPIN-ON type filters with disposable cartridge elements suitable for application on suction lines or pressure return lines. Filter heads are available with port tappings of 3/4" to 1.1/2" BSP, whilst the larger sizeds type OMTI31 - OMTI36 are available with SAE ports.
SPIN-ON replace elements can be supplied either standard or with safety feature to stop oil spillage during element replacement.
The filter head on both the OMTI and FTT are suitable for either European standard or American standard cartridge elements.

COMPLETE FILTER TECHNICAL DATA
- Max working pressure = 10 bar
- Max test pressure = 18 bar
- Suction by-pass valve calibrated to 0.25 bar ± 10%
- Return by-pass valve calibrated to 1.7 bar ± 10%
- Working temperature -25°C up to +95°C
- Compatibility with hydraulic oils as per ISO 2943
- Filtrating elements collapse pressure ISO 2941
- Threated connections according with UNI 388
- Filter head aluminium UNI 5076 alloy

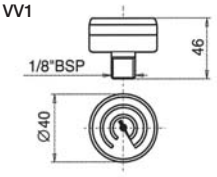
REPLECEMENT ELEMENTS
- A and B in micropaper treated with resin and stabilized filtration ratios 10 and 25 micron ßx≥2
- C in steel with filtration ratios 60 micron
- E in brass mesh with filtration ration 125 micron
- Filtration efficiency multipass-test as per ISO 4572

OPTIONALS
- PV1: gauge with pressure range from 0 to 12 bar
- VV1: for suction line with gauge scale to 76 cm Hg
- PE1: pressure switch with NA elettrical contacts and pressure setting 1,3 bar ± 10%
- PE2: pressure switch with NC elettrical contacts and pressure setting 1,3 bar ± 10%
- VE1: vacuum switch with NO electrical contacts set at 0,2 bar ± 10%
- DV131: differential visual indicator calibrated at 1,3 bar ± 10% (to be mounted only on T31"-I" head)
- DV130: differential visual indicator calibrated at 1,3 bar ± 10% (to be mounted only on T20"-I" head)
- DE131: differential visual electrical indicator calibrated at 1,3 bar ± 10% (to be mounted only on T31"-I" head)
- DE130: differential visual electrical indicator calibrated at 1,3 bar ± 10% (to be mounted only on T20"-I" head)
- PE3: membrane pressure switch with pressure setting 1,3 bar ± 10%

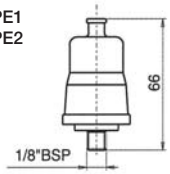
PV1



VV1

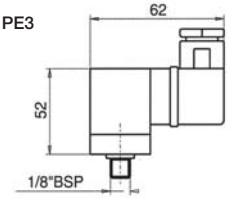


PE1
PE2

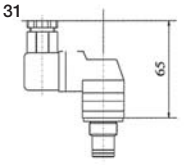


DR130
DR131

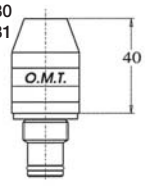
PE3



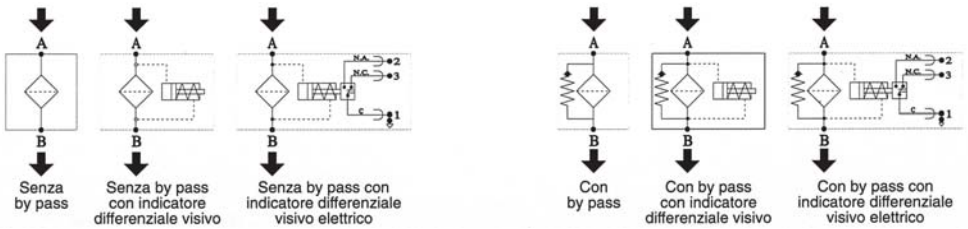
DE130
DE131



DV130
DV131



SIMBOLOGIA - SIMBOLS



Con il fine di migliorare costantemente la qualità dei nostri prodotti, ci riserviamo il diritto di modificarne in qualsiasi momento le caratteristiche senza preavviso. È responsabilità della spettabile clientela la costante verifica dei dati contenuti nei cataloghi. Questo catalogo annulla e sostituisce i precedenti.

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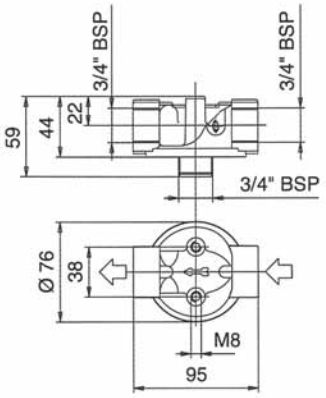
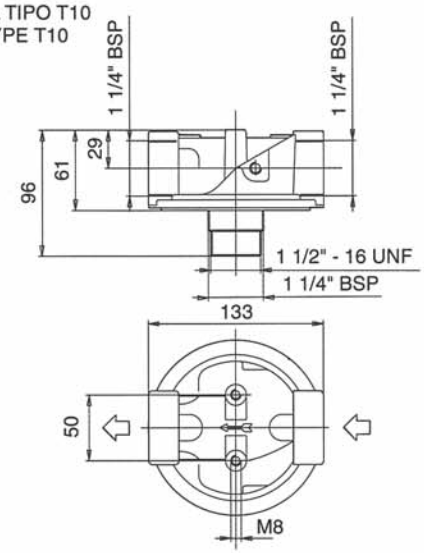
Versione - Version 02/112009

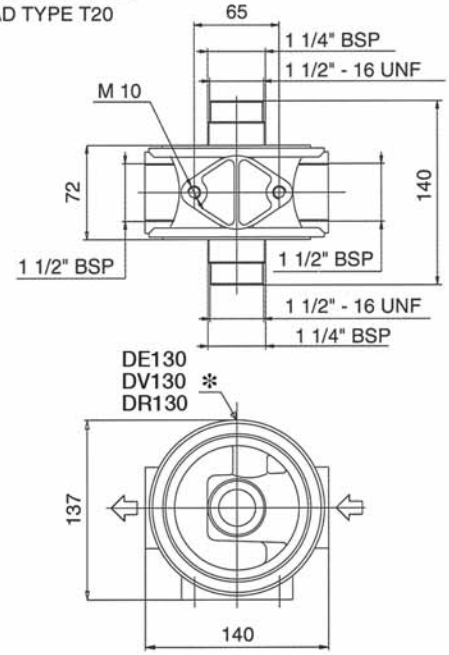
TESTINA TIPO T05
HEAD TYPE T05



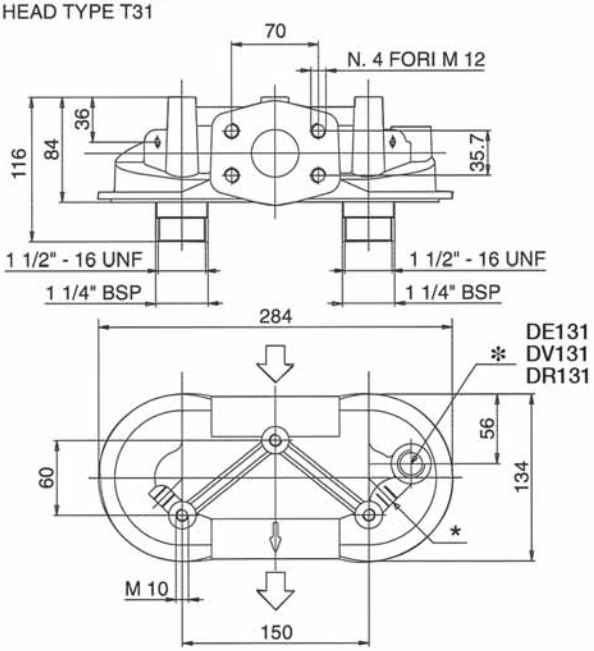
TESTINA TIPO T10
HEAD TYPE T10



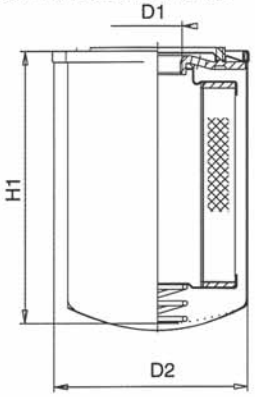
TESTINA TIPO T20
HEAD TYPE T20



TESTINA TIPO T31
HEAD TYPE T31



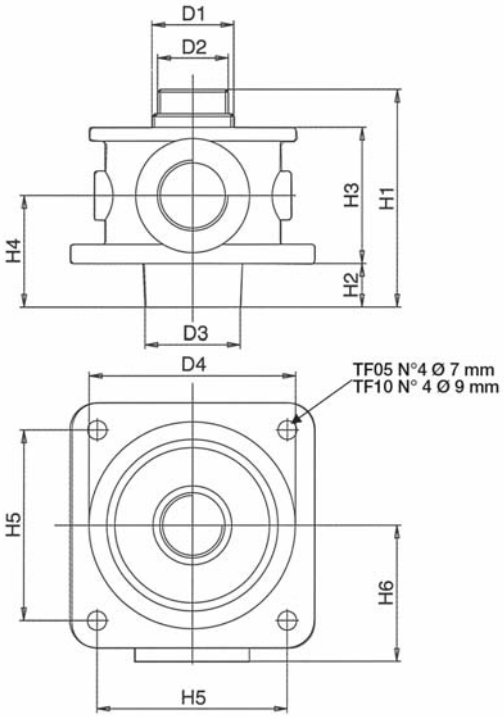
CARTUCCIA SERIE CS
CARTRIDGE SERIES CS



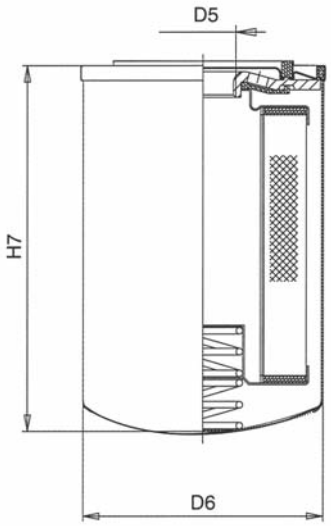
***= solo per T20 e T31 "-I"**
for T20 and T31 "-I" only

Dimensioni cartuccia - Dimensions			
Codice Code	D1	D2	H1
CS 05	3/4" BSP	98	145
CS 06			190
CS 10	1 1/4" BSP	132	180
CS 15	1 1/4" BSP	132	226

TESTINA TIPO TF05 - TF10
HEAD TYPE TF05 - TF10



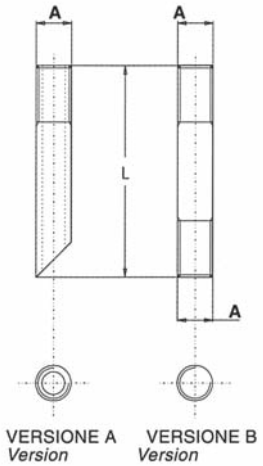
CARTUCCIA SERIE CSM
CARTRIDGE SERIES CSM



Tipo Type	Dimensioni / Dimensions													Portata max.
	D1 BSP	D2	D3	D4	D5 BSP	D6	H1	H2	H3	H4	H5	H6	H7	
FTT 05	3/4"	-	35	76	3/4"	98	80	16	50	41	70	50	145	95
FTT 06													190	110
FTT 10	11/4"	1 1/2" 16UNF	60	135	1 1/4"	132	127	20	73	56	100	70	180	240
FTT 15													226	260

ACCESSORI / OPTIONALS

Tubo di scarico per filtri FTT
Clearance tube for FTT filter



CODICE PER ORDINAZIONE / HOW TO ORDER

S A 34 G 100 — Lunghezza / Length

Versione Version	
A	Versione A Version A
V	Versione B Version B

Tipo Type	Dimensioni / Dimensions	
	A	L = Lunghezza / Length
34	3/4"	a richiesta upon request
112	1 1/2"	a richiesta upon request

G	Filetto GAS Thread GAS
N	Filetto NTP Thread NTP

CADUTE DI PRESSIONE (CONFORMI A ISO 3968 CI.B)

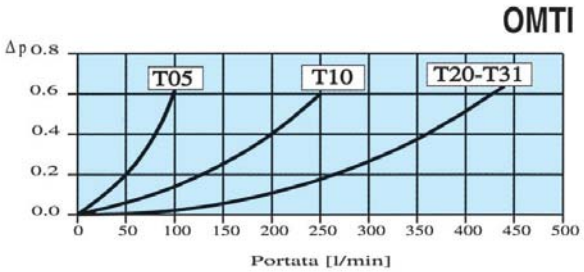
La caduta di pressione completa si ottiene sommando la caduta di pressione del corpo filtro e quella dell'elemento filtrante.

PRESSURE DROPS (COMPLYNG TO ISO 3968 CI.B)

The pressure drop of the complete filter is calculated by adding the pressure drop of the housing to that of the filter element.

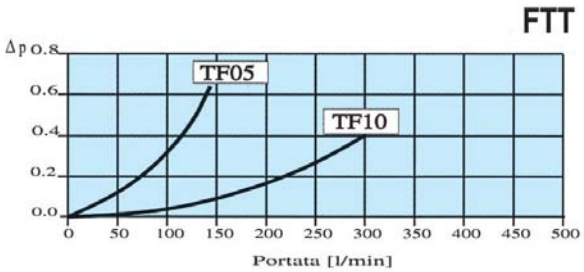
CADUTA DI PRESSIONE DELLA TESTINA

Caduta di pressione nel corpo filtro
Le curve sono valide con olio minerale avente massa volumica di 860 kg/m^3. La caduta di pressione è proporzionale alla massa volumica



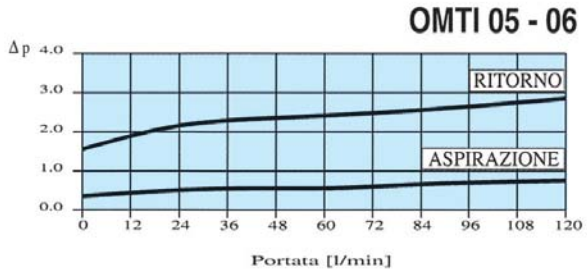
HEAD PRESSURE DROP

Pressure drops in the housing
The graphics refer to use of mineral oil with a mass density of 860 kg/m^3. The pressure drop is proportional to the variations of mass density



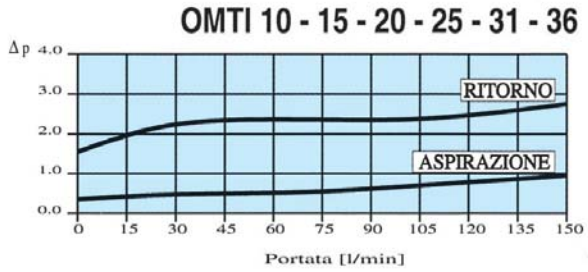
CADUTA DI PRESSIONE DELLA VALVOLA BY-PASS

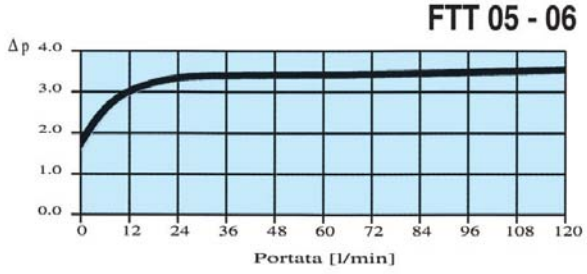
Caduta di pressione nelle valvole by-pass
Le curve sono valide con olio minerale avente massa volumica di 860 kg/m^3. La caduta di pressione è proporzionale alla massa volumica.

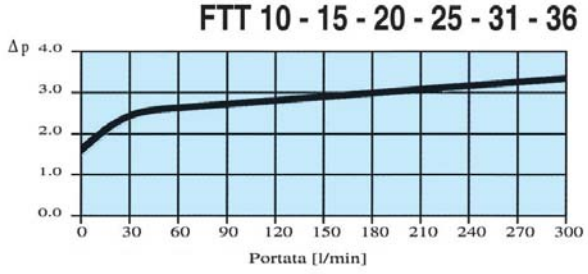


PRESSURE DROP IN BY-PASS VALVE

Pressure drop in by-pass valves
he graphics refer to use of mineral oil with a mass density of 860 kg/m^3. The pressure drop is proportional to the variations of mass density.







CADUTE DI PRESSIONE ELEMENTI FILTRANTI

Caduta di pressione negli elementi filtranti

Le curve sono valide con olio minerale avente viscosità cinematica di 30 cSt.

La variazione di caduta di pressione è proporzionale alla viscosità cinematica.

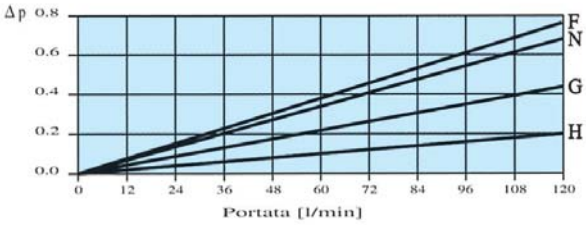
FILTER ELEMENT PRESSURE DROP

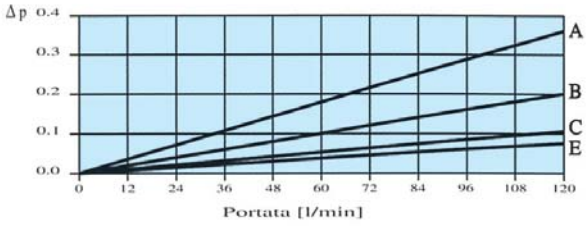
Pressure drops in the filtering elements

The graphics refer to mineral oil with a kinematic viscosity of 30 cSt.

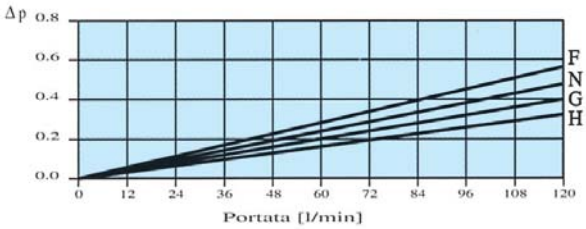
The variation of the pressure drop is proportional to viscosity.

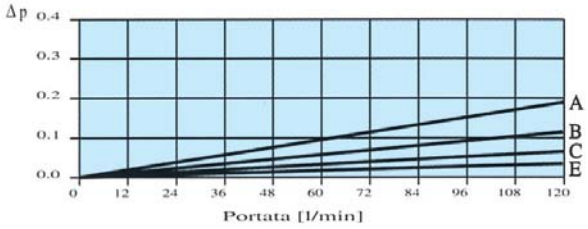
CS 05 - CSM 05



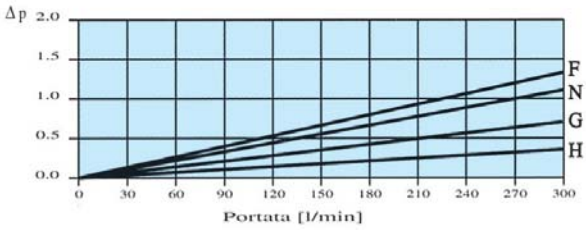


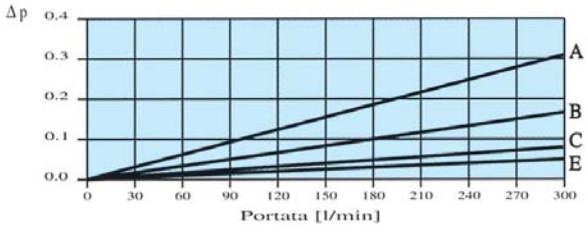
CS 06 - CSM 06



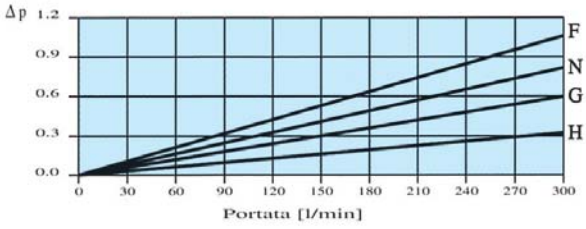


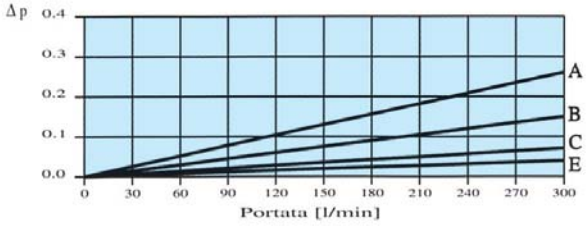
CS 10 - CSM 10





CS 15 - CSM 15





CODICE PER L'ORDINAZIONE DEL FILTRO COMPLETO
HOW TO ORDER THE COMPLETE FILTER

OMTI 05 A N R - I

-	
I	Predisposizione attacco indicatore differenziale valido solo per T20 e T31 Differential indicators connections T20 and T31 only

Valvola by-pass / By pass valve

A	By-pass in aspirazione solo per OMTI-CS Suction by-pass only for OMTI-CS
R	By-pass sul ritorno / Return by-pass
S	Senza by-pass / Without by-pass

Serie / Series

OMTI	Filtro in linea completo Complete line filter
FTT	Filtro sul ritorno completo Return complete filter

Guarnizioni / Seals

N	Nitrilica Buna - N
V	Vilton

Elemento filtrante / Filter elements

A	10 µm	Carta trattata con resine ßx ≥2 Resin treated cellulose ßx ≥2
B	25 µm	Carta trattata con resine ßx ≥2 Resin treated cellulose ßx ≥2
C	60 µm	Rete a maglia quadra (Aisi 304) Square mesh (Aisi 304)
E	125 µm	Rete a maglia quadra (Aisi 304) Square mesh (Aisi 304)
F	3 µm	Fibre inorganiche ßx ≥200 Inorganic fibre ßx ≥200
G	10 µm	Fibre inorganiche ßx ≥200 Inorganic fibre ßx ≥200
H	25 µm	Fibre inorganiche ßx ≥200 Inorganic fibre ßx ≥200
N	6 µm	Fibre inorganiche ßx ≥200 Inorganic fibre ßx ≥200

Grandezza nominale / Nominal size

	OMTI	FTT
05	3/4"	3/4"
06		
10	1 1/4"	1 1/2"
15		
20	1 1/2"	
25		
31	Flangia Flange SAE	
36		

Codice per l'ordinazione delle cartucce e testine di ricambio
How to order replacement elements and filter head

Cartuccia / Cartridge: CS 05 A N R

Da indicare solo per la serie CSM
To indicate only for series CSM

Cartuccia Serie / Cartridge series

CS	Filtro in linea OMTI In line filter OMTI
CSM	Filtro sul ritorno FTT Return filter FTT

Grandezza nominale / Nominal Size

05 06	N. 1	per filtro OMTI e FTT for filter OMTI and FTT
10	N. 1	per filtro OMTI 10 e FTT 10 for filter OMTI 10 and FTT 10
	N. 2	per filtro OMTI 20 e OMTI 31 for filter OMTI 20 and OMTI 31
15	N. 1	per filtro OMTI 15 e FTT 15 for filter OMTI 15 and FTT 15
	N. 2	per filtro OMTI 25 e OMTI 36 for filter OMTI 25 and OMTI 36

-	
I	Predisposizione attacco indicatore differenziale valido solo per T20 e T31 Differential indicators connections T20 and T31 only

Testina / Head: T 05 VO R - I

Da indicare solo per la serie OMTI
To indicate only for series OMTI

Testina serie / Head series

T	Filtro in linea OMTI In line filter OMTI
TF	Filtro sul ritorno FTT Return filter FTT

Grandezza nominale / Nominal Size

05	per filtri for filters	OMTI FTT	05 - 06
10	per filtri for filters	OMTI FTT	10 - 15
20	per filtri for filters	OMTI	20 - 25
31	per filtri for filters	OMTI	31 - 36

Tipo di attacchi / Linkage type

VO	Standard Standard
VX	A richiesta Upon request

08

SCAMBIATORI
HEAT EXCHANGERS

FILTRI
FILTERS

ACCESSORI
ACCESSORIES

COMPONENTI
COMPONENTS

FLANGE / FLANGES
RACCORDI / COUPLINGS
BLOCCHI / MANIFOLDS

Filtri - Filters

OMT s.p.a. Via Lombardia, 14 - 24040 Calvenzano (Bg) ITALY - Tel. +39 0363 860311 - Fax +39 0363 335636
www.omtfiltri.com - omt@omtfiltri.com

05

Filtri - Filters

SERIE **OMTP** SERIES

Filtri sul ritorno

Return filters

Con il fine di migliorare costantemente la qualità dei nostri prodotti, ci riserviamo il diritto di modificarne in qualsiasi momento le caratteristiche senza preavviso.
È responsabilità della spettabile clientela la costante verifica dei dati contenuti nei cataloghi.
Questo catalogo annulla e sostituisce i precedenti.

In order to constantly improve our products quality, we take the right to make changes to the catalogues at any time without notice.
Customers have the responsibility to continuously check all the information in the catalogues.
This catalogue cancels and replaces the previous ones.

Versione - Version 05/042018

FILTRI SUL RITORNO SERIE OMTP
1.000.000 Pa (10 BAR)

RETURN FILTERS OMTP SERIES
1.000.000 Pa (10 BAR)

OMTP, è la serie di filtri per le linee di ritorno; la gamma è composta da due grandezze con portate nominali fino a 150 L/min.

Posizionati flangiati sul coperchio del serbatoio, sono forniti di serie con valvola di by-pass e filtro aria da 10 µm o 40 µm, per la filtrazione dell'aria scambiata dal serbatoio con l'ambiente esterno.

Gli elementi filtranti sono costruiti con i più evoluti materiali, a garanzia di una elevata efficienza di filtrazione e della massima durata nel tempo.

La concezione di costruzione modulare, propria della serie OMTP, permette al cliente OMT di poter scegliere la configurazione più adatta alla propria necessità.

La divisione Ricerca e Sviluppo presente nella sede di Calvenzano, utilizzando moderne e sofisticate apparecchiature di prova, esercita un costante controllo delle prestazioni dei filtri e degli elementi filtranti OMT.

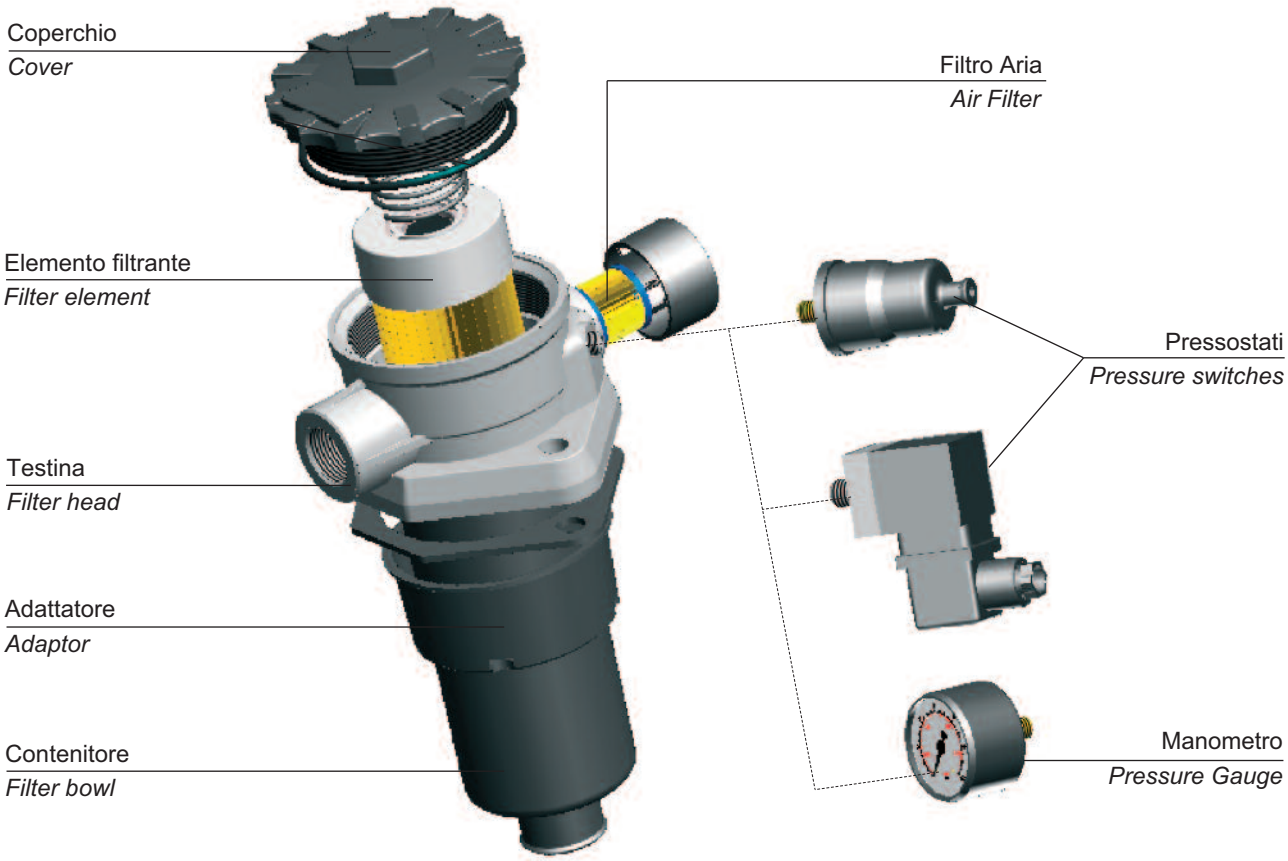
OMTP are a series of return line in-tank filters; their range has two sizes with nominal flows up to 150 L/min.

OMTP filters are flanged on the top of the reservoir and have a by-pass valve and air breather (10 µm and 40 µm) as standard, aimed to filter the air exchanged with the environment.

Filter elements are manufactured with the most advanced materials, in order to grant a high filtration efficiency and duration.

The OMTP modular manufacturing allows customers to choose the most proper configuration.

The R&D of OMT makes a constant control of the performance of both filter assemblies and elements, through advanced quality test equipment.



LA SERIE DI FILTRI HMM È CONFORME ALLE SEGUENTI NORME ISO:

-ISO 2941 - Oleoidraulica - Elementi filtranti - Verifica della resistenza allo schiacciamento o allo scoppio

-ISO 2942 - Oleoidraulica - Elementi filtranti - Verifica dell'integrità di fabbricazione e determinazione del punto di prima bolla

-ISO 2943 - Oleoidraulica - Elementi filtranti - Verifica della compatibilità dei materiali con i fluidi

-ISO 3723 - Oleoidraulica - Elementi filtranti - Verifica della resistenza alla deformazione assiale

-ISO 3724 - Oleoidraulica - Elementi filtranti - Verifica delle caratteristiche mediante prova di resistenza a fatica in funzione della portata

-ISO 3968 - Oleoidraulica - Filtri - Determinazione della perdita di carico in funzione della portata

-ISO 16889 - Oleoidraulica - Filtri - Metodo Multi-pass: valutazione delle caratteristiche di filtrazione di un elemento filtrante

HMM FILTER SERIES IS SUITABLE TO THE FOLLOWING ISO STANDARDS:

-ISO 2941 - Hydraulic fluid power - Filter elements Verification of collapse / burst resistance

-ISO 2942 - Hydraulic fluid power - Filter elements Verification of fabrication integrity and determination of the first bubble point

-ISO 2943 - Hydraulic fluid power - Filter elements Verification of material compatibility with fluids

-ISO 3723 - Hydraulic fluid power - Filter elements Method for end load test

-ISO 3724 - Hydraulic fluid power - Filter elements Verification of flow fatigue characteristics

-ISO 3968 - Hydraulic fluid power - Filters - Evaluation of pressure drop versus flow characteristics

-ISO 16889 - Hydraulic fluid power filters - Multi-pass method for evaluating filtration performance of a filter element

MATERIALI (elementi filtranti)

Fondelli	Lamiera zincata
Tubo di sostegno	Lamiera zincata
Reti di supporto	Acciaio galvanizzato con rivestimento epossidico

MATERIALS (filter elements)

End caps	Galvanized sheet iron
Support tube	Galvanized sheet iron
Support mesh	Galvanized steel with epox coating

SETTI FILTRANTI / FILTRATION MATERIALS

Elementi filtranti Filter elements	Descrizione Description	Materiale Material	Grado di filtrazione (µm) Filtration (µm)	Rapporto ß / ß Ratio	
				ISO 4572 ßx≥200	ISO 16889 ßx(c)≥200
C10	Carta trattata / Treated paper	Fibre di cellulosa / Cellulose fibre	10	-	-
C25	Carta trattata / Treated paper	Fibre di cellulosa / Cellulose fibre	25	-	-
F03	Fibra inorganica / Inorganic fibre	Fibra di vetro / Glass fibre	3	3	5
F06	Fibra inorganica / Inorganic fibre	Fibra di vetro / Glass fibre	6	6	6
F10	Fibra inorganica / Inorganic fibre	Fibra di vetro / Glass fibre	10	10	9
F25	Fibra inorganica / Inorganic fibre	Fibra di vetro / Glass fibre	25	25	20
R25	Rete a maglia quadra / Square mesh	Aisi 304	25	-	-
R60	Rete a maglia quadra / Square mesh	Aisi 304	60	-	-
R90	Rete a maglia quadra / Square mesh	Aisi 304	90	-	-
R125	Rete a maglia quadra / Square mesh	Aisi 304	125	-	-

SUPERFICI UTILI (cm^2) ELEMENTI FILTRANTI / FILTRATION AREA (cm^2) FILTER ELEMENTS

OMTPR	20	101	102	103
C10 - C25	870	940	1500	1850
F06 - F10 - F25	710	670	1020	1670
R25 - R60 - R90 - R125	680	670	1020	1590

CARATTERISTICHE TECNICHE
TECHNICAL DATA

MATERIALI (corpo)

Testina	Pressofusione di Alluminio
Contenitore	Nylon caricato vetro
Coperchio	Nylon caricato vetro
Guarnizioni	N: Nitrilica (Buna-N) V: Fluoroelastomero (viton)
Valvola di by-pass	Gomma Nitrica

MATERIALS (housing)

Filter head	Aluminium die-casting
Filter bowl	Glass reinforced nylon
Cover	Glass reinforced nylon
Seals	N: Nitrile (Buna-N) V: Fluoroelastomer (viton)
By-pass valve	Nitrile (Buna-N)

CONDIZIONI DI ESERCIZIO

Pressioni corpo filtro	Pressione massima d'esercizio: 1.000.000 Pa (10 bar) Pressione di collaudo: 2.000.000 Pa (20 bar) Pressione di scoppio: 3.000.000 Pa (30 bar)
Temperatura d'esercizio	Da -20 a +90°C
Pressioni di collasso degli elementi filtranti	500.000 Pa (5 bar)
Pressione taratura valvola di by-pass	150.000 Pa (1.5 bar)
Compatibilità con i liquidi - ISO 2943	Compatibili con oli minerali tipo (HH, HM, HR, HV, HG secondo ISO 6743/4)

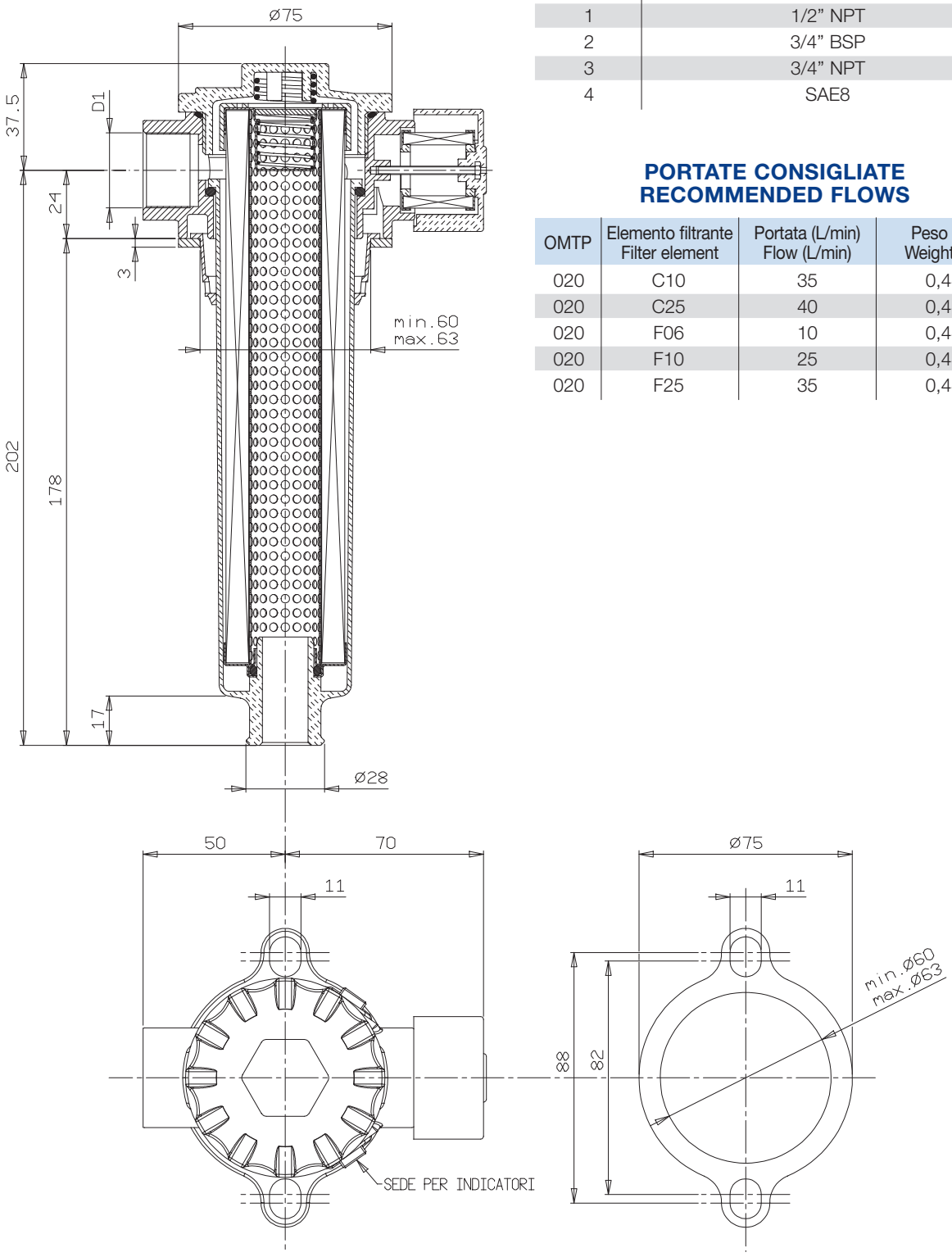
WORKING CONDITIONS

Filter pressure	Max working pressure: 1.000.000 Pa (10 bar) Test pressure: 2.000.000 Pa (20 bar) Bursting pressure: 3.000.000 Pa (30 bar)
Working temperature	-20 to +90°C
Collapse pressure (filter element)	500.000 Pa (5 bar)
By-pass valve setting pressure	150.000 Pa (1.5 bar)
Compatibily with hydraulic fluids ISO 2943	Compatible with mineral oils type (HH, HM, HR, HV, HG according to ISO 6743/4)

OMTP
serie/series 020

Le portate sono state calcolate per avere una perdita di carico Δp ≤ 40.000 Pa (0.4 bar) con olio minerale avente viscosità cinematica 30 cSt e densità 860 kg/m^3. (Vedi note a pag. 8)

Flows have been calculated just in order to obtain a pressure drop Δp ≤ 40.000 Pa (0.4 bar) with mineral oil kinematic viscosity 30 cSt and 860 kg/m^3 density. (See remarks on page 8)



ATTACCHI / CONNECTIONS

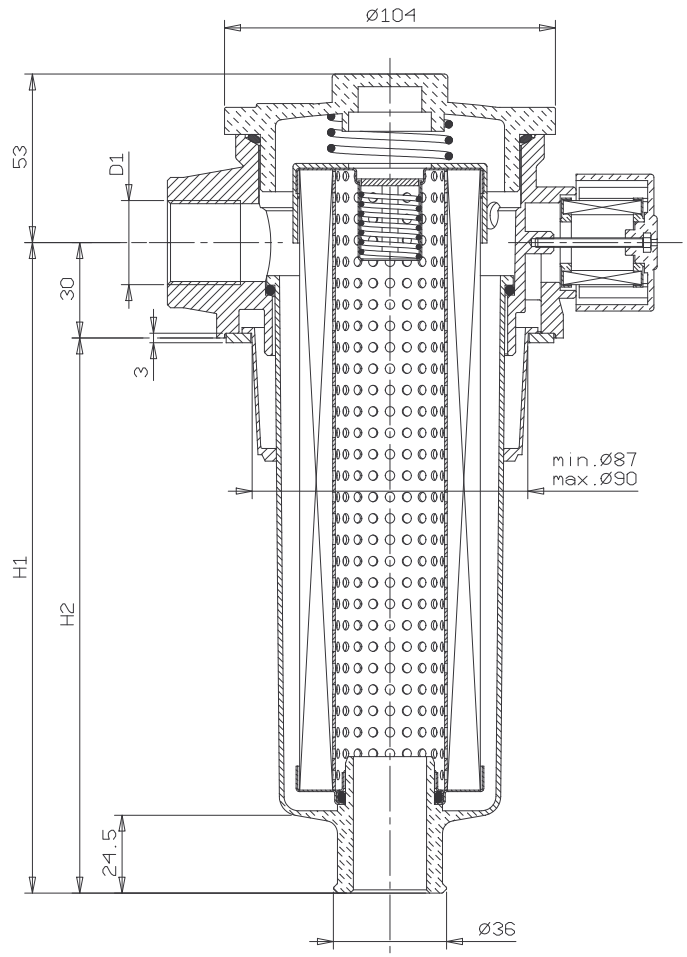
Tipo / Type	OMTP 20
	1/2" BSP
1	1/2" NPT
2	3/4" BSP
3	3/4" NPT
4	SAE8

PORTATE CONSIGLIATE
RECOMMENDED FLOWS

OMTP	Elemento filtrante Filter element	Portata (L/min) Flow (L/min)	Peso (kg) Weight (kg)
020	C10	35	0,44
020	C25	40	0,44
020	F06	10	0,44
020	F10	25	0,44
020	F25	35	0,44

Le portate sono state calcolate per avere una perdita di carico Δp ≤ 40.000 Pa (0.4 bar) con olio minerale avente viscosità cinematica 30 cSt e densità 860 kg/m³. (Vedi note a pag. 09)

Flows have been calculated just in order to obtain a pressure drop Δp ≤ 40.000 Pa (0.4 bar) with mineral oil kinematic viscosity 30 cSt and 860 kg/m³ density. (See remarks on page 09)



ATTACCHI / CONNECTIONS

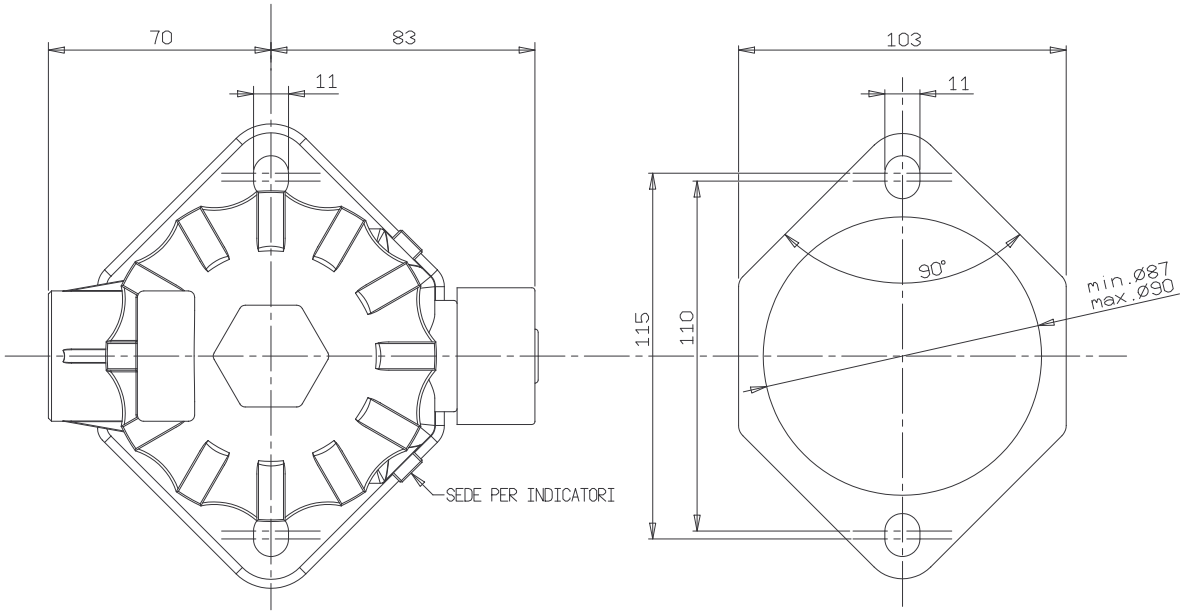
Tipo / Type	OMTP100
	3/4" BSP
1	3/4" NPT
2	1" BSP
3	1" NPT
4	SAE12

LUNGHEZZE / LENGTHS

Tipo / Type	H1	H2
101	140	110
102	205	175
103	305	275

PORTATE CONSIGLIATE
RECOMMENDED FLOWS

OMTP	Elemento filtrante Filter element	Portata (L/min) Flow (L/min)	Peso (kg) Weight (kg)
101	C10	60	0,875
101	C25	60	0,875
101	F06	25	0,875
101	F10	35	0,875
101	F25	60	0,875
102	C10	80	1.0
102	C25	80	1.0
102	F06	35	1.0
102	F10	45	1.0
102	F25	80	1.0
103	C10	100	1.15
103	C25	100	1.15
103	F06	40	1.15
103	F10	60	1.15
103	F25	100	1.15



Cadute di Pressione
(conformi a ISO 3968)
Pressure Drops
(according to ISO 3968)

La caduta di pressione completa si ottiene sommando la caduta di pressione del corpo filtro e quella dell'elemento filtrante.

Cadute di pressione nel corpo filtro
Le curve sono valide con olio minerale avente massa volumica di 860 kg/m^3. La caduta di pressione è proporzionale alla massa volumica.

Cadute di pressione negli elementi filtranti
Le curve sono valide con olio minerale avente viscosità cinematica di 30 cSt. La variazione di caduta di pressione è proporzionale alla viscosità cinematica.

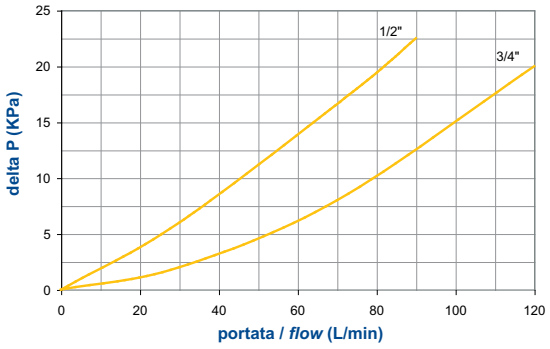
The pressure drop of the complete filter is calculated by adding the pressure drop of the housing to that of the filter element.

Pressure drops in the housing
The graphics refer to the use of mineral oil with a mass density of 860 kg/m^3. The pressure drop is proportional to the variations of mass density.

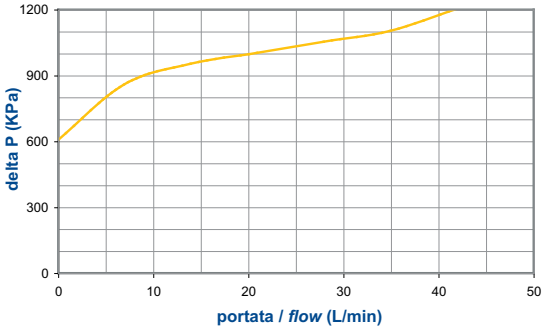
Pressure drops in the filter elements
The graphics refer to mineral oil with a kinematic viscosity of 30 cSt. The variation of the pressure drop is proportional to the kinematic viscosity.

OMTP serie/series 20

ΔP CORPI / ΔP HOUSINGS

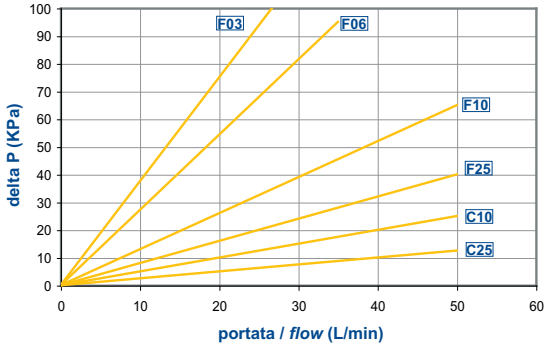


BY-PASS / BY-PASS



OMTPR20

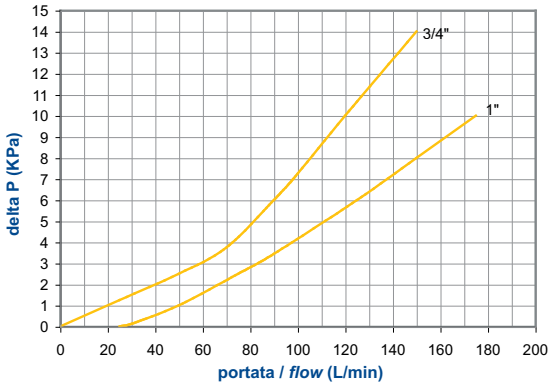
ΔP ELEMENTI **ΔP ELEMENTS**



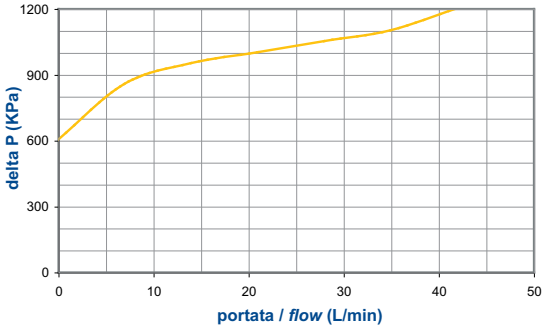
Cadute di Pressione
(conformi a ISO 3968)
Pressure Drops
(according to ISO 3968)

OMTP serie/series 100

ΔP CORPI / ΔP HOUSINGS



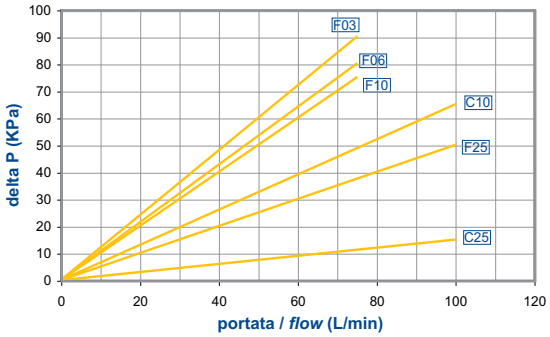
BY-PASS / BY-PASS



ΔP ELEMENTI

OMPTR101

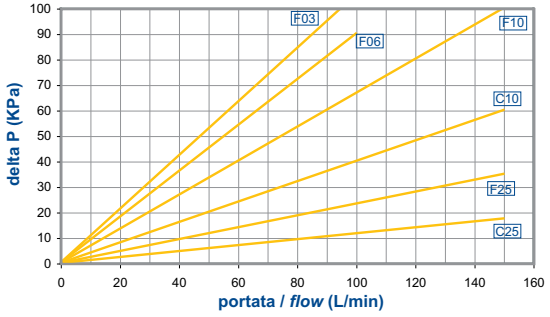
ΔP ELEMENTS



ΔP ELEMENTI

OMPTR102

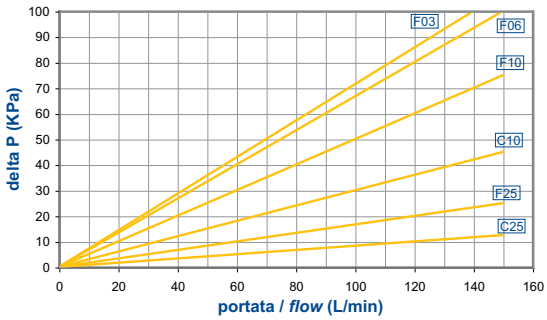
ΔP ELEMENTS



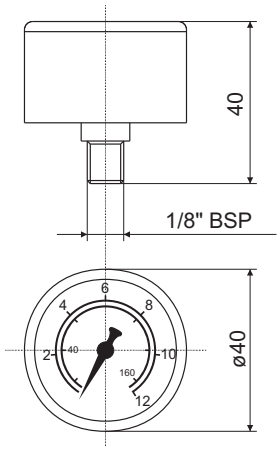
ΔP ELEMENTI

OMPTR103

ΔP ELEMENTS

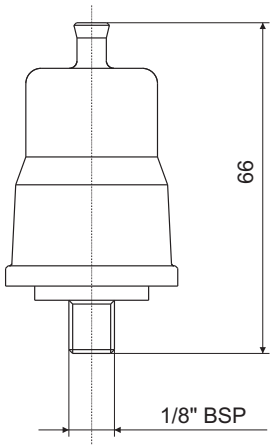


PV1



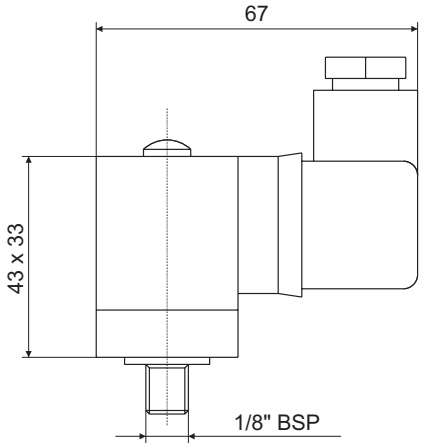
MANOMETRO
PRESSURE GAUGE

PE1 - PE2



PRESSOSTATO CON CONTATTI N.A. O N.C.
PRESSURE SWITCH WITH CONTACTS N.O. OR N.C.

PE3



PRESSOSTATO CON CONTATTI IN SCAMBIO
PRESSURE SWITCH WITH CHANGEOVER CONTACTS

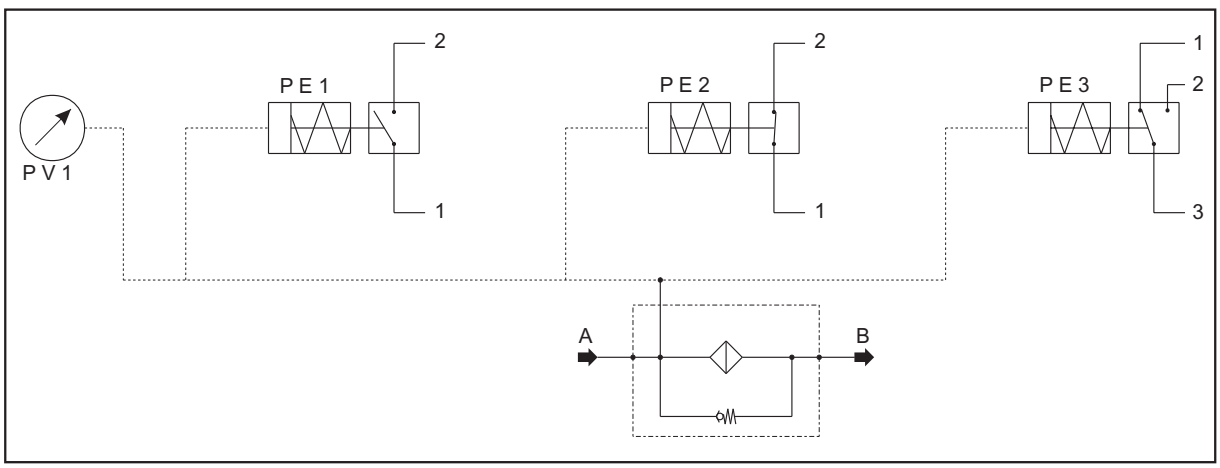
CARATTERISTICHE TECNICHE
TECHNICAL DATA

Codice Part number	Descrizione Description	Scala taratura Setting	Contatti elettrici Electrical Contacts	Tipo Type
PV1	visivo visual	0-12 bar	-	Puntuale On the spot
PE1	elettrico electrical	1,3 bar	N.A. / N.O.	
PE2			N.C.	
PE3			Scambio Changeover	

CARATTERISTICHE ELETTRICHE
ELECTRICAL DATA

Codice Part number	Tensione max di alimen. (V) Max feeder voltage (V)	Carico resistivo (A) Resistive load (A)	Carico induttivo (A) Inductive load (A)	Protezione (completo) Protection (complete)
PE1	C.A. 48	0,5	0,2	IP 54
PE2	C.A. 48	0,5	0,2	IP 54
PE3	C.A. 250	3	2	IP 65 DIN40050

SIMBOLOGIA / SIMBOLOGY



CODICE PER L'ORDINAZIONE DEL FILTRO COMPLETO

HOW TO ORDER THE COMPLETE FILTER

OMTP 101 C10 N 1 - A

Grandezza nominale Nominal Size	Lunghezze Lenght
020	
101	1
102	2
103	3

Elemento filtrante Filtration Element		
C10	10 µm	Carta trattata con resine ßx≥2 Resin treated cellulose ßx≥2
C25	25 µm	Carta trattata con resine ßx≥2 Resin treated cellulose ßx≥2
F06	6 µm	Fibre inorganiche ßx≥200 Inorganic fibre ßx≥200
F10	10 µm	Fibre inorganiche ßx≥200 Inorganic fibre ßx≥200
F25	25 µm	Fibre inorganiche ßx≥200 Inorganic fibre ßx≥200
R60	60 µm	Rete a maglia quadra (Aisi304) Square mesh (Aisi304)
R90	90 µm	Rete a maglia quadra (Aisi304) Square mesh (Aisi304)
R125	125 µm	Rete a maglia quadra (Aisi304) Square mesh (Aisi304)
T25	25 µm	Rete a maglia quadra (Aisi304) Square mesh (Aisi304)

Guarnizioni Seals	
N	Nitrile / Buna-N
V	Viton

Attacchi Connections		
	OMTP20	OMTP100
	1/2" BSP	3/4" BSP
1	1/2" NPT	3/4" NPT
2	3/4" BSP	1" BSP
3	3/4" NPT	1" NPT
4	SAE8	SAE12

Elemento Filtrante Aria Air Filter Element		
A	10 µm	Carta trattata Resin treated cellulose
B	40 µm	Carta trattata Resin treated cellulose

OMTPR 101 F03 N

Codice per l'ordinazione dell'elemento filtrante di ricambio
How to order the replacement element

* Per l'ordinazione degli indicatori di intasamento, guardare pag. 8
* See page 8 for information how to order clogging indicators

ELEMENTO FILTRANTE / FILTRATION ELEMENTS

Codici vecchi Old codes	Codici nuovi New codes
OMTPR20-AN	**OMTPR020C10N**
OMTPR20-BN	**OMTPR020C25N**
OMTPR20-CN	**OMTPR020R60N**
OMTPR20-EN	**OMTPR020R125N**
OMTPR20-GN	**OMTPR020F10N**
OMTPR20-HN	**OMTPR020F25N**
OMTPR20-NN	**OMTPR020F06N**
OMTPR20-UN	**OMTPR020R90N**
OMTPR20-ZN	**OMTPR020T25N**

Codici vecchi Old codes	Codici nuovi New codes
OMTPR100-1-AN	**OMTPR101C10N**
OMTPR100-1-BN	**OMTPR101C25N**
OMTPR100-1-CN	**OMTPR101R60N**
OMTPR100-1-EN	**OMTPR101R125N**
OMTPR100-1-GN	**OMTPR101F10N**
OMTPR100-1-HN	**OMTPR101F25N**
OMTPR100-1-NN	**OMTPR101F06N**
OMTPR100-1-UN	**OMTPR101R90N**
OMTPR100-1-ZN	**OMTPR101T25N**

Codici vecchi Old codes	Codici nuovi New codes
OMTPR100-2-AN	**OMTPR102C10N**
OMTPR100-2-BN	**OMTPR102C25N**
OMTPR100-2-CN	**OMTPR102R60N**
OMTPR100-2-EN	**OMTPR102R125N**
OMTPR100-2-GN	**OMTPR102F10N**
OMTPR100-2-HN	**OMTPR102F25N**
OMTPR100-2-NN	**OMTPR102F06N**
OMTPR100-2-UN	**OMTPR102R90N**
OMTPR100-2-ZN	**OMTPR102T25N**

Codici vecchi Old codes	Codici nuovi New codes
OMTPR100-3-AN	**OMTPR103C10N**
OMTPR100-3-BN	**OMTPR103C25N**
OMTPR100-3-CN	**OMTPR103R60N**
OMTPR100-3-EN	**OMTPR103R125N**
OMTPR100-3-GN	**OMTPR103F10N**
OMTPR100-3-HN	**OMTPR103F25N**
OMTPR100-3-NN	**OMTPR103F06N**
OMTPR100-3-UN	**OMTPR103R90N**
OMTPR100-3-ZN	**OMTPR103T25N**

FILTRO COMPLETO / COMPLETE FILTER

Codici vecchi Old codes	Codici nuovi New codes
OMTP20AN-10	**OMTP020C10N-A**
OMTP20AN1-10	**OMTP020C10N1-A**
OMTP20AN2-10	**OMTP020C10N2-A**
OMTP20AN3-10	**OMTP020C10N3-A**
OMTP20AN4-10	**OMTP020C10N4-A**

Codici vecchi Old codes	Codici nuovi New codes
OMTP20BN-10	**OMTP020C25N-A**
OMTP20BN1-10	**OMTP020C25N1-A**
OMTP20BN2-10	**OMTP020C25N2-A**
OMTP20BN3-10	**OMTP020C25N3-A**
OMTP20BN4-10	**OMTP020C25N4-A**

Codici vecchi Old codes	Codici nuovi New codes
OMTP20CN-10	**OMTP020R60N-A**
OMTP20CN1-10	**OMTP020R60N1-A**
OMTP20CN2-10	**OMTP020R60N2-A**
OMTP20CN3-10	**OMTP020R60N3-A**
OMTP20CN4-10	**OMTP020R60N4-A**

Codici vecchi Old codes	Codici nuovi New codes
OMTP20EN-10	**OMTP020R125N-A**
OMTP20EN1-10	**OMTP020R125N1-A**
OMTP20EN2-10	**OMTP020R125N2-A**
OMTP20EN3-10	**OMTP020R125N3-A**
OMTP20EN4-10	**OMTP020R125N4-A**

Codici vecchi Old codes	Codici nuovi New codes
OMTP20GN-10	**OMTP020F10N-A**
OMTP20GN1-10	**OMTP020F10N1-A**
OMTP20GN2-10	**OMTP020F10N2-A**
OMTP20GN3-10	**OMTP020F10N3-A**
OMTP20GN4-10	**OMTP020F10N4-A**

Codici vecchi Old codes	Codici nuovi New codes
OMTP20HN-10	**OMTP020F25N-A**
OMTP20HN1-10	**OMTP020F25N1-A**
OMTP20HN2-10	**OMTP020F25N2-A**
OMTP20HN3-10	**OMTP020F25N3-A**
OMTP20HN4-10	**OMTP020F25N4-A**

Codici vecchi Old codes	Codici nuovi New codes
OMTP20NN-10	**OMTP020F06N-A**
OMTP20NN1-10	**OMTP020F06N1-A**
OMTP20NN2-10	**OMTP020F06N2-A**
OMTP20NN3-10	**OMTP020F06N3-A**
OMTP20NN4-10	**OMTP020F06N4-A**

Codici vecchi Old codes	Codici nuovi New codes
OMTP20UN-10	**OMTP020R90N-A**
OMTP20UN1-10	**OMTP020R90N1-A**
OMTP20UN2-10	**OMTP020R90N2-A**
OMTP20UN3-10	**OMTP020R90N3-A**
OMTP20UN4-10	**OMTP020R90N4-A**

Codici vecchi Old codes	Codici nuovi New codes
OMTP20ZN-10	**OMTP020T25N-A**
OMTP20ZN1-10	**OMTP020T25N1-A**
OMTP20ZN2-10	**OMTP020T25N2-A**
OMTP20ZN3-10	**OMTP020T25N3-A**
OMTP20ZN4-10	**OMTP020T25N4-A**

Codici vecchi Old codes	Codici nuovi New codes
OMTP20AN-40	**OMTP020C10N-B**
OMTP20AN1-40	**OMTP020C10N1-B**
OMTP20AN2-40	**OMTP020C10N2-B**
OMTP20AN3-40	**OMTP020C10N3-B**
OMTP20AN4-40	**OMTP020C10N4-B**

Codici vecchi Old codes	Codici nuovi New codes
OMTP20BN-40	**OMTP020C25N-B**
OMTP20BN1-40	**OMTP020C25N1-B**
OMTP20BN2-40	**OMTP020C25N2-B**
OMTP20BN3-40	**OMTP020C25N3-B**
OMTP20BN4-40	**OMTP020C25N4-B**

Codici vecchi Old codes	Codici nuovi New codes
OMTP20CN-40	**OMTP020R60N-B**
OMTP20CN1-40	**OMTP020R60N1-B**
OMTP20CN2-40	**OMTP020R60N2-B**
OMTP20CN3-40	**OMTP020R60N3-B**
OMTP20CN4-40	**OMTP020R60N4-B**

Codici vecchi Old codes	Codici nuovi New codes
OMTP20EN-40	**OMTP020R125N-B**
OMTP20EN1-40	**OMTP020R125N1-B**
OMTP20EN2-40	**OMTP020R125N2-B**
OMTP20EN3-40	**OMTP020R125N3-B**
OMTP20EN4-40	**OMTP020R125N4-B**

Codici vecchi Old codes	Codici nuovi New codes
OMTP20GN-40	**OMTP020F10N-B**
OMTP20GN1-40	**OMTP020F10N1-B**
OMTP20GN2-40	**OMTP020F10N2-B**
OMTP20GN3-40	**OMTP020F10N3-B**
OMTP20GN4-40	**OMTP020F10N4-B**

Codici vecchi Old codes	Codici nuovi New codes
OMTP20HN-40	**OMTP020F25N-B**
OMTP20HN1-40	**OMTP020F25N1-B**
OMTP20HN2-40	**OMTP020F25N2-B**
OMTP20HN3-40	**OMTP020F25N3-B**
OMTP20HN4-40	**OMTP020F25N4-B**

Codici vecchi Old codes	Codici nuovi New codes
OMTP20NN-40	**OMTP020F06N-B**
OMTP20NN1-40	**OMTP020F06N1-B**
OMTP20NN2-40	**OMTP020F06N2-B**
OMTP20NN3-40	**OMTP020F06N3-B**
OMTP20NN4-40	**OMTP020F06N4-B**

Codici vecchi Old codes	Codici nuovi New codes
OMTP20UN-40	**OMTP020R90N-B**
OMTP20UN1-40	**OMTP020R90N1-B**
OMTP20UN2-40	**OMTP020R90N2-B**
OMTP20UN3-40	**OMTP020R90N3-B**
OMTP20UN4-40	**OMTP020R90N4-B**

Codici vecchi Old codes	Codici nuovi New codes
OMTP20ZN-40	**OMTP020T25N-B**
OMTP20ZN1-40	**OMTP020T25N1-B**
OMTP20ZN2-40	**OMTP020T25N2-B**
OMTP20ZN3-40	**OMTP020T25N3-B**
OMTP20ZN4-40	**OMTP020T25N4-B**

Codici vecchi Old codes	Codici nuovi New codes
OMTP100-1AN-10	**OMTP101C10N-A**
OMTP100-1AN1-10	**OMTP101C10N1-A**
OMTP100-1AN2-10	**OMTP101C10N2-A**
OMTP100-1AN3-10	**OMTP101C10N3-A**
OMTP100-1AN4-10	**OMTP101C10N4-A**

Codici vecchi Old codes	Codici nuovi New codes
OMTP100-1BN-10	**OMTP101C25N-A**
OMTP100-1BN1-10	**OMTP101C25N1-A**
OMTP100-1BN2-10	**OMTP101C25N2-A**
OMTP100-1BN3-10	**OMTP101C25N3-A**
OMTP100-1BN4-10	**OMTP101C25N4-A**

Codici vecchi Old codes	Codici nuovi New codes
OMTP100-1CN-10	**OMTP101R60N-A**
OMTP100-1CN1-10	**OMTP101R60N1-A**
OMTP100-1CN2-10	**OMTP101R60N2-A**
OMTP100-1CN3-10	**OMTP101R60N3-A**
OMTP100-1CN4-10	**OMTP101R60N4-A**

Codici vecchi Old codes	Codici nuovi New codes
OMTP100-1EN-10	**OMTP101R125N-A**
OMTP100-1EN1-10	**OMTP101R125N1-A**
OMTP100-1EN2-10	**OMTP101R125N2-A**
OMTP100-1EN3-10	**OMTP101R125N3-A**
OMTP100-1EN4-10	**OMTP101R125N4-A**

Codici vecchi Old codes	Codici nuovi New codes
OMTP100-1GN-10	**OMTP101F10N-A**
OMTP100-1GN1-10	**OMTP101F10N1-A**
OMTP100-1GN2-10	**OMTP101F10N2-A**
OMTP100-1GN3-10	**OMTP101F10N3-A**
OMTP100-1GN4-10	**OMTP101F10N4-A**

Codici vecchi Old codes	Codici nuovi New codes
OMTP100-1HN-10	**OMTP101F25N-A**
OMTP100-1HN1-10	**OMTP101F25N1-A**
OMTP100-1HN2-10	**OMTP101F25N2-A**
OMTP100-1HN3-10	**OMTP101F25N3-A**
OMTP100-1HN4-10	**OMTP101F25N4-A**

FILTRO COMPLETO / COMPLETE FILTER

Codici vecchi Old codes	Codici nuovi New codes
OMTP100-1NN-10	**OMTP101F06N-A**
OMTP100-1NN1-10	**OMTP101F06N1-A**
OMTP100-1NN2-10	**OMTP101F06N2-A**
OMTP100-1NN3-10	**OMTP101F06N3-A**
OMTP100-1NN4-10	**OMTP101F06N4-A**

Codici vecchi Old codes	Codici nuovi New codes
OMTP100-1UN-10	**OMTP101R90N-A**
OMTP100-1UN1-10	**OMTP101R90N1-A**
OMTP100-1UN2-10	**OMTP101R90N2-A**
OMTP100-1UN3-10	**OMTP101R90N3-A**
OMTP100-1UN4-10	**OMTP101R90N4-A**

Codici vecchi Old codes	Codici nuovi New codes
OMTP100-1ZN-10	**OMTP101T25N-A**
OMTP100-1ZN1-10	**OMTP101T25N1-A**
OMTP100-1ZN2-10	**OMTP101T25N2-A**
OMTP100-1ZN3-10	**OMTP101T25N3-A**
OMTP100-1ZN4-10	**OMTP101T25N4-A**

Codici vecchi Old codes	Codici nuovi New codes
OMTP100-1AN-40	**OMTP101C10N-B**
OMTP100-1AN1-40	**OMTP101C10N1-B**
OMTP100-1AN2-40	**OMTP101C10N2-B**
OMTP100-1AN3-40	**OMTP101C10N3-B**
OMTP100-1AN4-40	**OMTP101C10N4-B**

Codici vecchi Old codes	Codici nuovi New codes
OMTP100-1BN-40	**OMTP101C25N-B**
OMTP100-1BN1-40	**OMTP101C25N1-B**
OMTP100-1BN2-40	**OMTP101C25N2-B**
OMTP100-1BN3-40	**OMTP101C25N3-B**
OMTP100-1BN4-40	**OMTP101C25N4-B**

Codici vecchi Old codes	Codici nuovi New codes
OMTP100-1CN-40	**OMTP101R60N-B**
OMTP100-1CN1-40	**OMTP101R60N1-B**
OMTP100-1CN2-40	**OMTP101R60N2-B**
OMTP100-1CN3-40	**OMTP101R60N3-B**
OMTP100-1CN4-40	**OMTP101R60N4-B**

Codici vecchi Old codes	Codici nuovi New codes
OMTP100-1EN-40	**OMTP101R125N-B**
OMTP100-1EN1-40	**OMTP101R125N1-B**
OMTP100-1EN2-40	**OMTP101R125N2-B**
OMTP100-1EN3-40	**OMTP101R125N3-B**
OMTP100-1EN4-40	**OMTP101R125N4-B**

Codici vecchi Old codes	Codici nuovi New codes
OMTP100-1GN-40	**OMTP101F10N-B**
OMTP100-1GN1-40	**OMTP101F10N1-B**
OMTP100-1GN2-40	**OMTP101F10N2-B**
OMTP100-1GN3-40	**OMTP101F10N3-B**
OMTP100-1GN4-40	**OMTP101F10N4-B**

Codici vecchi Old codes	Codici nuovi New codes
OMTP100-1HN-40	**OMTP101F25N-B**
OMTP100-1HN1-40	**OMTP101F25N1-B**
OMTP100-1HN2-40	**OMTP101F25N2-B**
OMTP100-1HN3-40	**OMTP101F25N3-B**
OMTP100-1HN4-40	**OMTP101F25N4-B**

Codici vecchi Old codes	Codici nuovi New codes
OMTP100-1NN-40	**OMTP101F06N-B**
OMTP100-1NN1-40	**OMTP101F06N1-B**
OMTP100-1NN2-40	**OMTP101F06N2-B**
OMTP100-1NN3-40	**OMTP101F06N3-B**
OMTP100-1NN4-40	**OMTP101F06N4-B**

Codici vecchi Old codes	Codici nuovi New codes
OMTP100-1UN-40	**OMTP101R90N-B**
OMTP100-1UN1-40	**OMTP101R90N1-B**
OMTP100-1UN2-40	**OMTP101R90N2-B**
OMTP100-1UN3-40	**OMTP101R90N3-B**
OMTP100-1UN4-40	**OMTP101R90N4-B**

Codici vecchi Old codes	Codici nuovi New codes
OMTP100-1ZN40	**OMTP101T25N-B**
OMTP100-1ZN1-40	**OMTP101T25N1-B**
OMTP100-1ZN2-40	**OMTP101T25N2-B**
OMTP100-1ZN3-40	**OMTP101T25N3-B**
OMTP100-1ZN4-40	**OMTP101T25N4-B**

Codici vecchi Old codes	Codici nuovi New codes
OMTP100-2AN-10	**OMTP102C10N-A**
OMTP100-2AN1-10	**OMTP102C10N1-A**
OMTP100-2AN2-10	**OMTP102C10N2-A**
OMTP100-2AN3-10	**OMTP102C10N3-A**
OMTP100-2AN4-10	**OMTP101C10N4-A**

Codici vecchi Old codes	Codici nuovi New codes
OMTP100-2BN-10	**OMTP102C25N-A**
OMTP100-2BN1-10	**OMTP102C25N1-A**
OMTP100-2BN2-10	**OMTP102C25N2-A**
OMTP100-2BN3-10	**OMTP102C25N3-A**
OMTP100-2BN4-10	**OMTP102C25N4-A**

Codici vecchi Old codes	Codici nuovi New codes
OMTP100-2CN-10	**OMTP102R60N-A**
OMTP100-2CN1-10	**OMTP102R60N1-A**
OMTP100-2CN2-10	**OMTP102R60N2-A**
OMTP100-2CN3-10	**OMTP102R60N3-A**
OMTP100-2CN4-10	**OMTP102R60N4-A**

Codici vecchi Old codes	Codici nuovi New codes
OMTP100-2EN-10	**OMTP102R125N-A**
OMTP100-2EN1-10	**OMTP102R125N1-A**
OMTP100-2EN2-10	**OMTP102R125N2-A**
OMTP100-2EN3-10	**OMTP102R125N3-A**
OMTP100-2EN4-10	**OMTP102R125N4-A**

Codici vecchi Old codes	Codici nuovi New codes
OMTP100-2GN-10	**OMTP102F10N-A**
OMTP100-2GN1-10	**OMTP102F10N1-A**
OMTP100-2GN2-10	**OMTP102F10N2-A**
OMTP100-2GN3-10	**OMTP102F10N3-A**
OMTP100-2GN4-10	**OMTP102F10N4-A**

Codici vecchi Old codes	Codici nuovi New codes
OMTP100-2HN-10	**OMTP102F25N-A**
OMTP100-2HN1-10	**OMTP102F25N1-A**
OMTP100-2HN2-10	**OMTP102F25N2-A**
OMTP100-2HN3-10	**OMTP102F25N3-A**
OMTP100-2HN4-10	**OMTP102F25N4-A**

Codici vecchi Old codes	Codici nuovi New codes
OMTP100-2NN-10	**OMTP102F06N-A**
OMTP100-2NN1-10	**OMTP102F06N1-A**
OMTP100-2NN2-10	**OMTP102F06N2-A**
OMTP100-2NN3-10	**OMTP102F06N3-A**
OMTP100-2NN4-10	**OMTP102F06N4-A**

Codici vecchi Old codes	Codici nuovi New codes
OMTP100-2UN-10	**OMTP102R90N-A**
OMTP100-2UN1-10	**OMTP102R90N1-A**
OMTP100-2UN2-10	**OMTP102R90N2-A**
OMTP100-2UN3-10	**OMTP102R90N3-A**
OMTP100-2UN4-10	**OMTP102R90N4-A**

Codici vecchi Old codes	Codici nuovi New codes
OMTP100-2ZN-10	**OMTP102T25N-A**
OMTP100-2ZN1-10	**OMTP102T25N1-A**
OMTP100-2ZN2-10	**OMTP102T25N2-A**
OMTP100-2ZN3-10	**OMTP102T25N3-A**
OMTP100-2ZN4-10	**OMTP102T25N4-A**

Codici vecchi Old codes	Codici nuovi New codes
OMTP100-2AN-40	**OMTP102C10N-B**
OMTP100-2AN1-40	**OMTP102C10N1-B**
OMTP100-2AN2-40	**OMTP102C10N2-B**
OMTP100-2AN3-40	**OMTP102C10N3-B**
OMTP100-2AN4-40	**OMTP101C10N4-B**

Codici vecchi Old codes	Codici nuovi New codes
OMTP100-2BN-40	**OMTP102C25N-B**
OMTP100-2BN1-40	**OMTP102C25N1-B**
OMTP100-2BN2-40	**OMTP102C25N2-B**
OMTP100-2BN3-40	**OMTP102C25N3-B**
OMTP100-2BN4-40	**OMTP102C25N4-B**

Codici vecchi Old codes	Codici nuovi New codes
OMTP100-2CN-40	**OMTP102R60N-B**
OMTP100-2CN1-40	**OMTP102R60N1-B**
OMTP100-2CN2-40	**OMTP102R60N2-B**
OMTP100-2CN3-40	**OMTP102R60N3-B**
OMTP100-2CN4-40	**OMTP102R60N4-B**

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Codici vecchi Old codes	Codici nuovi New codes
OMTP100-2EN-40	**OMTP102R125N-B**
OMTP100-2EN1-40	**OMTP102R125N1-B**
OMTP100-2EN2-40	**OMTP102R125N2-B**
OMTP100-2EN3-40	**OMTP102R125N3-B**
OMTP100-2EN4-40	**OMTP102R125N4-B**

Codici vecchi Old codes	Codici nuovi New codes
OMTP100-2GN-40	**OMTP102F10N-B**
OMTP100-2GN1-40	**OMTP102F10N1-B**
OMTP100-2GN2-40	**OMTP102F10N2-B**
OMTP100-2GN3-40	**OMTP102F10N3-B**
OMTP100-2GN4-40	**OMTP102F10N4-B**

Codici vecchi Old codes	Codici nuovi New codes
OMTP100-2HN-40	**OMTP102F25N-B**
OMTP100-2HN1-40	**OMTP102F25N1-B**
OMTP100-2HN2-40	**OMTP102F25N2-B**
OMTP100-2HN3-40	**OMTP102F25N3-B**
OMTP100-2HN4-40	**OMTP102F25N4-B**

Codici vecchi Old codes	Codici nuovi New codes
OMTP100-2NN-40	**OMTP102F06N-B**
OMTP100-2NN1-40	**OMTP102F06N1-B**
OMTP100-2NN2-40	**OMTP102F06N2-B**
OMTP100-2NN3-40	**OMTP102F06N3-B**
OMTP100-2NN4-40	**OMTP102F06N4-B**

Codici vecchi Old codes	Codici nuovi New codes
OMTP100-2UN-40	**OMTP102R90N-B**
OMTP100-2UN1-40	**OMTP102R90N1-B**
OMTP100-2UN2-40	**OMTP102R90N2-B**
OMTP100-2UN3-40	**OMTP102R90N3-B**
OMTP100-2UN4-40	**OMTP102R90N4-B**

Codici vecchi Old codes	Codici nuovi New codes
OMTP100-2ZN-40	**OMTP102T25N-B**
OMTP100-2ZN1-40	**OMTP102T25N1-B**
OMTP100-2ZN2-40	**OMTP102T25N2-B**
OMTP100-2ZN3-40	**OMTP102T25N3-B**
OMTP100-2ZN4-40	**OMTP102T25N4-B**

Codici vecchi Old codes	Codici nuovi New codes
OMTP100-3AN-10	**OMTP103C10N-A**
OMTP100-3AN1-10	**OMTP103C10N1-A**
OMTP100-3AN2-10	**OMTP103C10N2-A**
OMTP100-3AN3-10	**OMTP103C10N3-A**
OMTP100-3AN4-10	**OMTP103C10N4-A**

Codici vecchi Old codes	Codici nuovi New codes
OMTP100-3BN-10	**OMTP103C25N-A**
OMTP100-3BN1-10	**OMTP103C25N1-A**
OMTP100-3BN2-10	**OMTP103C25N2-A**
OMTP100-3BN3-10	**OMTP103C25N3-A**
OMTP100-3BN4-10	**OMTP103C25N4-A**

Codici vecchi Old codes	Codici nuovi New codes
OMTP100-3CN-10	**OMTP103R60N-A**
OMTP100-3CN1-10	**OMTP103R60N1-A**
OMTP100-3CN2-10	**OMTP103R60N2-A**
OMTP100-3CN3-10	**OMTP103R60N3-A**
OMTP100-3CN4-10	**OMTP103R60N4-A**

Codici vecchi Old codes	Codici nuovi New codes
OMTP100-3EN-10	**OMTP103R125N-A**
OMTP100-3EN1-10	**OMTP103R125N1-A**
OMTP100-3EN2-10	**OMTP103R125N2-A**
OMTP100-3EN3-10	**OMTP103R125N3-A**
OMTP100-3EN4-10	**OMTP103R125N4-A**

Codici vecchi Old codes	Codici nuovi New codes
OMTP100-3GN-10	**OMTP103F10N-A**
OMTP100-3GN1-10	**OMTP103F10N1-A**
OMTP100-3GN2-10	**OMTP103F10N2-A**
OMTP100-3GN3-10	**OMTP103F10N3-A**
OMTP100-3GN4-10	**OMTP103F10N4-A**

Codici vecchi Old codes	Codici nuovi New codes
OMTP100-3HN-10	**OMTP103F25N-A**
OMTP100-3HN1-10	**OMTP103F25N1-A**
OMTP100-3HN2-10	**OMTP103F25N2-A**
OMTP100-3HN3-10	**OMTP103F25N3-A**
OMTP100-3HN4-10	**OMTP103F25N4-A**

Codici vecchi Old codes	Codici nuovi New codes
OMTP100-3NN-10	**OMTP103F06N-A**
OMTP100-3NN1-10	**OMTP103F06N1-A**
OMTP100-3NN2-10	**OMTP103F06N2-A**
OMTP100-3NN3-10	**OMTP103F06N3-A**
OMTP100-3NN4-10	**OMTP103F06N4-A**

Codici vecchi Old codes	Codici nuovi New codes
OMTP100-3UN-10	**OMTP103R90N-A**
OMTP100-3UN1-10	**OMTP103R90N1-A**
OMTP100-3UN2-10	**OMTP103R90N2-A**
OMTP100-3UN3-10	**OMTP103R90N3-A**
OMTP100-3UN4-10	**OMTP103R90N4-A**

Codici vecchi Old codes	Codici nuovi New codes
OMTP100-3ZN-10	**OMTP103T25N-A**
OMTP100-3ZN1-10	**OMTP103T25N1-A**
OMTP100-3ZN2-10	**OMTP103T25N2-A**
OMTP100-3ZN3-10	**OMTP103T25N3-A**
OMTP100-3ZN4-10	**OMTP103T25N4-A**

Codici vecchi Old codes	Codici nuovi New codes
OMTP100-3AN-40	**OMTP103C10N-B**
OMTP100-3AN1-40	**OMTP103C10N1-B**
OMTP100-3AN2-40	**OMTP103C10N2-B**
OMTP100-3AN3-40	**OMTP103C10N3-B**
OMTP100-3AN4-40	**OMTP103C10N4-B**

Codici vecchi Old codes	Codici nuovi New codes
OMTP100-3BN-40	**OMTP103C25N-B**
OMTP100-3BN1-40	**OMTP103C25N1-B**
OMTP100-3BN2-40	**OMTP103C25N2-B**
OMTP100-3BN3-40	**OMTP103C25N3-B**
OMTP100-3BN4-40	**OMTP103C25N4-B**

Codici vecchi Old codes	Codici nuovi New codes
OMTP100-3CN-40	**OMTP103R60N-B**
OMTP100-3CN1-40	**OMTP103R60N1-B**
OMTP100-3CN2-40	**OMTP103R60N2-B**
OMTP100-3CN3-40	**OMTP103R60N3-B**
OMTP100-3CN4-40	**OMTP103R60N4-B**

Codici vecchi Old codes	Codici nuovi New codes
OMTP100-3EN-40	**OMTP103R125N-B**
OMTP100-3EN1-40	**OMTP103R125N1-B**
OMTP100-3EN2-40	**OMTP103R125N2-B**
OMTP100-3EN3-40	**OMTP103R125N3-B**
OMTP100-3EN4-40	**OMTP103R125N4-B**

Codici vecchi Old codes	Codici nuovi New codes
OMTP100-3GN-40	**OMTP103F10N-B**
OMTP100-3GN1-40	**OMTP103F10N1-B**
OMTP100-3GN2-40	**OMTP103F10N2-B**
OMTP100-3GN3-40	**OMTP103F10N3-B**
OMTP100-3GN4-40	**OMTP103F10N4-B**

Codici vecchi Old codes	Codici nuovi New codes
OMTP100-3HN-40	**OMTP103F25N-B**
OMTP100-3HN1-40	**OMTP103F25N1-B**
OMTP100-3HN2-40	**OMTP103F25N2-B**
OMTP100-3HN3-40	**OMTP103F25N3-B**
OMTP100-3HN4-40	**OMTP103F25N4-B**

Codici vecchi Old codes	Codici nuovi New codes
OMTP100-3NN-40	**OMTP103F06N-B**
OMTP100-3NN1-40	**OMTP103F06N1-B**
OMTP100-3NN2-40	**OMTP103F06N2-B**
OMTP100-3NN3-40	**OMTP103F06N3-B**
OMTP100-3NN4-40	**OMTP132F06N4-B**

Codici vecchi Old codes	Codici nuovi New codes
OMTP100-3UN-40	**OMTP103R90N-B**
OMTP100-3UN1-40	**OMTP103R90N1-B**
OMTP100-3UN2-40	**OMTP103R90N2-B**
OMTP100-3UN3-40	**OMTP103R90N3-B**
OMTP100-3UN4-40	**OMTP103R90N4-B**

Codici vecchi Old codes	Codici nuovi New codes
OMTP100-3ZN-40	**OMTP103T25N-B**
OMTP100-3ZN1-40	**OMTP103T25N1-B**
OMTP100-3ZN2-40	**OMTP103T25N2-B**
OMTP100-3ZN3-40	**OMTP103T25N3-B**
OMTP100-3ZN4-40	**OMTP103T25N4-B**

05

Filtri - Filters

SCAMBIATORI
HEAT EXCHANGERS

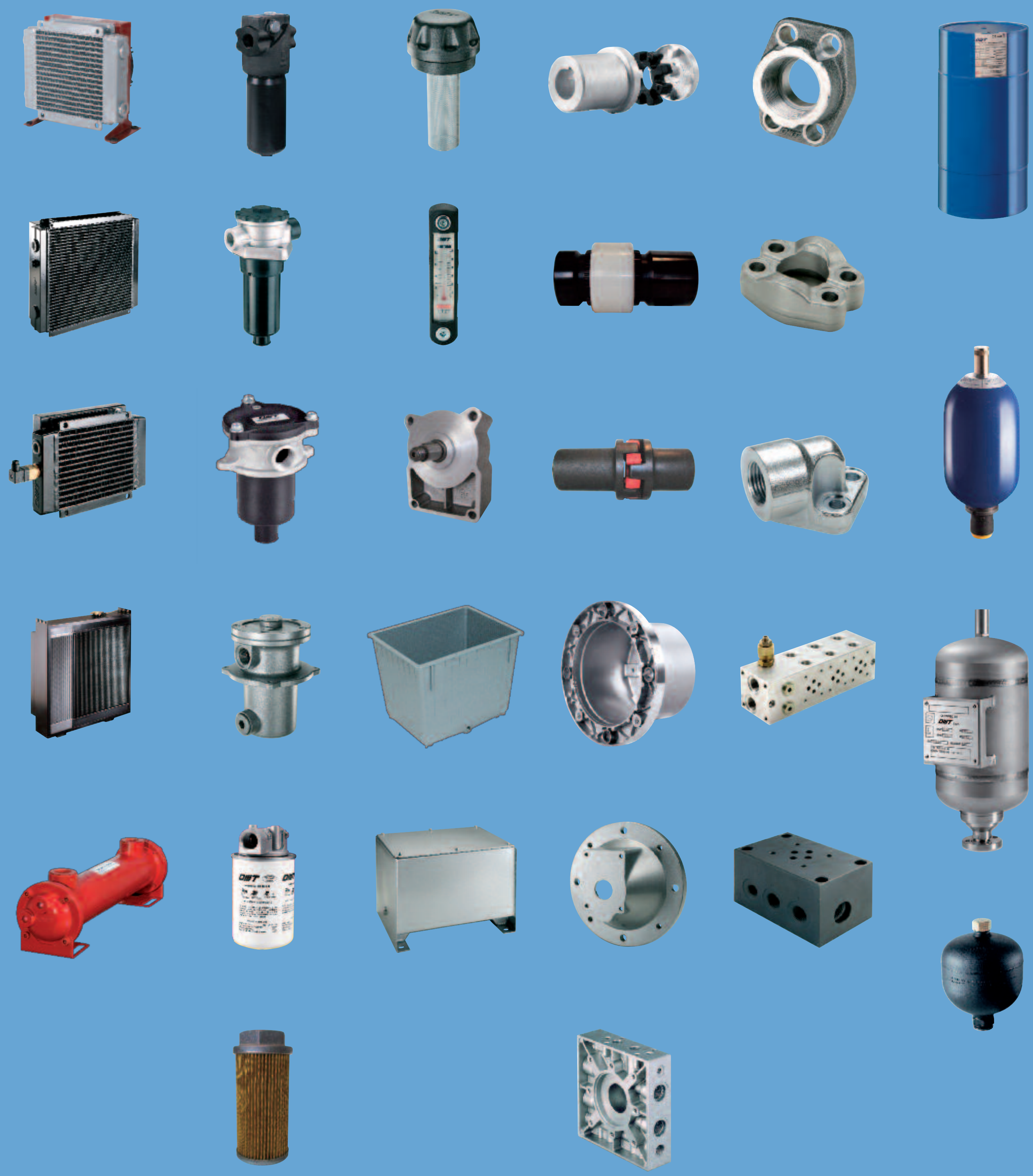
FILTRI
FILTERS

ACCESSORI
ACCESSORIES

COMPONENTI
COMPONENTS

FLANGE/FLANGES
RACCORDI/COUPLINGS
BLOCCHI/MANIFOLDS

ACCUMULATORI
ACCUMULATOR



OMT S.p.A. Via Lombardia, 14 - 24040 Calvenzano (Bg) ITALY - Tel. +39 0363 860311 - Fax +39 0363 335636
www.omtfiltri.com - omt@omtfiltri.com