

Insert filters
Einbaufilter
Parties intérieur es intégrées



Type I/Model IN-AGB



Model IN-AGB

Flow rate:
up to 2000 l/min

Nennvolumenstrom:
bis 2000 l/min

Débit:
jusqu'à 2000 l/min

Global Filtration Technology

Member of Parker Hannifin Corporation



SYMBOL EXPLANATION		
SYMBOL	DESCRIPTION	UNIT
AL	Aluminium	
Cd	Port dimension (BSP/G)	Inch
E	Element	#
Fc	Fluid compatibility	#
Fμ	Filter fineness	Micron
	XW Media type - Glass fibre	
	XX Media type - Cellulose	
	S Media type - Steel mesh	
Ft	Functional test	#
GDL	Media type HPFE Low pr.	#
H	Housing	#
Mh	Material filter housing	#
Mwc	Max. water content	ppm
NA	Not applicable	
Orq	On request	#
Pb	Burst pressure	bar
Pi	Indicator setting	bar
PO	By-pass setting	bar
POM	Plastic	
Pw	Max. working pressure	bar
Qd	Flow direction	#
Sm	Seal material	#
Std	Standard	#

SYMBOL ERKLÄRUNG		
SYMBOL	BESCHREIBUNG	EINHEIT
AL	Aluminium	
Cd	Anschluß (BSP/G)	Inch
E	Element	#
Fc	Fluid Verträglichkeit	#
Fμ	Filterfeinheit	Micron
	XW Filtermedia Glasfaser	
	XX Filtermedia Zellulose	
	S Filtermedia Edelstahlgewebe	
Ft	Funktionstest	#
GDL	Filtermedia HPFE Niederdruck	#
H	Filtergehäuse	#
Mh	Werkstoff Filtergehäuse	#
Mwc	Max. Wassergehalt	ppm
NA	Nicht zutreffend	
Orq	Auf Anfrage	#
Pb	Berstdruck	bar
Pi	Indikatoranzeige	bar
PO	By-pass Öffnungsdruck	bar
POM	Plastik	
Pw	Max. Nenndruck	bar
Qd	Durchfluß Richtung	#
Sm	Dichtungsmaterial	#
Std	Standard	#

EXPLICATION DE SYMBOLE		
SYMBOLE	DESCRIPTION	UNITÉ
AL	Aluminium	
Cd	Raccordements (BSP/G)	Inch
E	Élément	#
Fc	Compatibilité des fluides	#
Fμ	Finesses de filtration	Micron
	XW Fibre de verre	
	XX Cellulose	
	S Toile métallique inox.	
Ft	Test normalisé utilisé	#
GDL	Média type HPFE haute efficacité basse pression	#
H	Corps de filtre	#
Mh	Matière du corps de filtre	#
Mwc	Taux d'eau max.	ppm
NA	Non applicable	
Orq	Sur demande	#
Pb	Pression d'éclatement	bar
Pi	Tarage de l'indicateur	bar
PO	Tarage de by-pass	bar
POM	Plastique	
Pw	Max. pression de service	bar
Qd	Sens du débit	#
Sm	Matière de joints	#
Std	Standard	#

COMPANY PROFILE

Parker Arlon is a leading designer and manufacturer of filters for hydraulic and lubricating oil systems used in mobile and industrial applications throughout the world. The company offers standard, semi-standard and tailor-made solutions that meet all requirements. The product portfolio encompasses a wide variety of indicators, 3-way ball valves and filter elements, including the innovative *LEIF®* Low Environmental Impact Filter and *AQUASAFE®* water absorption elements. In addition, Parker Arlon provides oil analysis services.

In-depth know-how and experience, combined with an awareness of market demands and customer requirements are the foundation of Parker Arlon's customer-oriented approach. The company is pursuing new standards, not only in filtration efficiency and customer service, but also in environmental consciousness. Parker Arlon is ISO 9001 and ISO 14001 certified. Quality & environment are conveyed through technical efficiency, consistency, long lifecycles and cost efficiency.

Parker Arlon has engineering, R&D and manufacturing facilities located in Arnhem, the Netherlands, and exports 90% of its products around the world.

Parker Filtration BV is part of the Parker Hannifin Corporation – the world's largest motion and control company, manufacturing and supplying components and systems for just about anything that moves.

UNTERNEHMENS PROFIL

Parker Arlon ist ein führender Entwickler und Hersteller von Filtrationsprodukten für Hydraulik- und Schmierölsysteme, welche weltweit auf dem Mobil- und Industrie-Sektor ihre Anwendung finden.

Mit seinen Standards, Halbstandards und kundenorientierten Lösungen bedient die Firma eine Vielzahl von Anforderungen. Die Produktpalette umfasst eine breite Vielfalt von Indikatoren, 3-Wege-Kugelhähnen und Filterelementen einschließlich der innovativen, umweltfreundlichen *LEIF®* Filter und *AQUASAFE®* wasserabsorbierenden Elementen. Zusätzlich bietet Parker Arlon einen Ölanalyse-Service an.

Der langjährige know-how und Erfahrung zusammen mit der Wahrnehmung hoher Kunden- und Marktansprüche ist die Grundlage für die kundenorientierte Ausprägung von Parker Arlon. Die Umsetzung neuester Standards zeigt sich gleichermaßen in der Qualität unserer Produkte, einem hohen Niveau an Kundenservice, wie in der Verfolgung umwelt-politischer Aspekte. Parker Arlon ist ISO 9001 und 14001 zertifiziert.

Qualität und Umwelt-Verantwortung kommen durch technische Effizienz, Konsistenz, lange Lebenszyklen und Kosteneffizienz zum Ausdruck.

Parker Arlon vereint Engineering, Forschung & Entwicklung sowie Produktion am Standort in Arnhem, Niederlande. 90% der Produkte werden in die ganze Welt exportiert.

Parker Filtration BV ist Teil der Parker Hannifin Corporation, einer der international führenden Anbieter auf dem Gebiet der Antriebstechnik.

PROFIL DE L'ENTREPRISE

Parker Arlon est un des tous premiers concepteurs et fabricants mondiaux de filtres hydrauliques et de lubrification pour l'industrie et les applications mobiles.

La société propose des solutions standards, semi-standards et personnalisées pour toutes les demandes.

La gamme de produits comprend une grande variété d'indicateurs, des vannes 3 voies sphériques, d'éléments filtrants tels les innovants *LEIF®* filtre écologique et *AQUASAFE®*, élément absorbant l'eau.

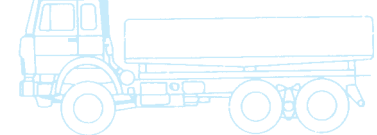
De plus, Parker Arlon assure un service d'analyse d'huile.

Un grand savoir-faire et une longue expérience, ainsi qu'une connaissance des besoins du marché et des clients sont les bases de l'approche client de Parker Arlon. La société explore de nouveaux domaines, non seulement dans l'efficacité de filtration et le service client, mais aussi dans la prise de conscience environnementale.

Parker Arlon est certifié ISO9001 et ISO14001. Qualité et environnement se traduisent par efficacité technique, qualité constante, longues durées de vie et efficacité économique.

Parker Arlon a ses bureaux d'études, Recherche et Développement et usine de production à Arnhem en Hollande, et exporte 90% de sa production dans le monde entier.

Parker Filtration BV appartient au groupe Parker Hannifin Corporation, la plus grande société du monde spécialisée dans la fabrication de composants pour le contrôle des mouvements et des fluides.

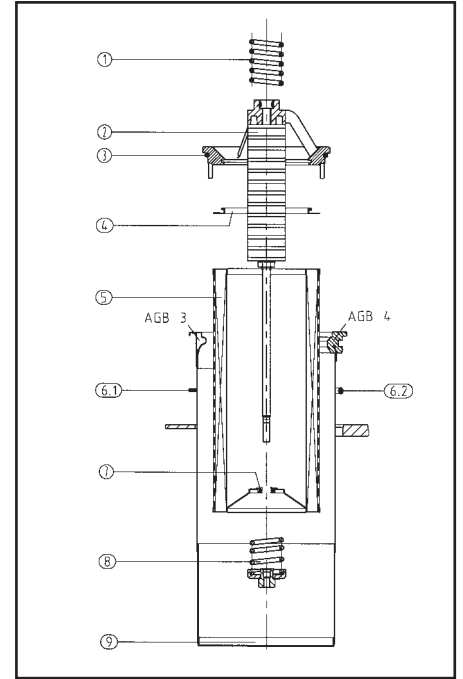


ASSEMBLY PARTS

TEILE-LISTE

PIECES DETACHEES

ITEM NUMBER TEIL NUMMER NUMÉRO DE PART	DESCRIPTION	BESCHREIBUNG	DESCRIPTION
1	Top-spring	Feder	Ressort supérieur
2	Insert	Einbausatz	Partie intérieure
3	Insert seal	O-ring Einbausatz	Joint de partie intérieure
4	By-pass seal	By-pass Dichtung	Joint de by-pass
5	Filter element	Filterelement	Élément de filtrant
6.1	Tank seal AGB-3	Behälter Dichtung AGB-3	Joint de réservoir AGB-3
6.2	Tank seal AGB-4	Behälter Dichtung AGB-4	Joint de réservoir AGB-4
7	Element seal	O-ring Element	Joint de l'élément
8	By-pass set	By-pass Satz	Ensemble by-pass
9	Funnel/diffuser	Auslaufrohr	Bac d'écoulement



TECHNICAL INFORMATION

TECHNISCHE BESCHREIBUNG

INFORMATIONS TECHNIQUES

FILTER/FILTER/FILTRE

Q max IN-AGB-1 =	125 l/min
Q max IN-AGB-2 =	300 l/min
Q max IN-AGB-3 =	500 l/min
Q max IN-AGB-4 =	2000 l/min
T:	-40°C/+120°C

AGB-4-600	m: 13,0 kg
AGB-4-800	m: 14,0 kg
AGB-4-1000	m: 16,8 kg
AGB-4-1500	m: 21,4 kg
AGB-4-2000	m: 28,3 kg

GENERAL/ALGEMEIN/GÉNÉRALES

Ft: ISO 2941
ISO 2942
ISO 2943
ISO 3724
ISO 3968
ISO 4572

BY-PASS/BY-PASS/BY-PASS

P0: 0,8 / 1,5 bar

Sm: NBR, CR, FPM
Pb: 10 bar

Fc: Oil type; Öl Type; Type d'huile
HH - HL - HLP - HV
HETG - HEPG - HEES
HFA (mineral base) - HFB - HFC
HFA (synthetic base) - Orq Please
contact Parker Arlon

INSERT/EINBAUSATZ/PARTIE INTÉRIEUR

AGB-1-30	m: 0,5 kg
AGB-1-60	m: 0,6 kg
AGB-1-90	m: 0,8 kg
AGB-1-120	m: 0,9 kg
AGB-1-125	m: 1,1 kg
AGB-2-170	m: 2,1 kg
AGB-2-230	m: 2,2 kg
AGB-2-300	m: 2,4 kg
AGB-3-270	m: 2,8 kg
AGB-3-390	m: 3,0 kg
AGB-3-500	m: 3,6 kg

MEDIA/MEDIUM/MÉDIUM

Qd: In/Out; Innen/Aussen; Intérieur/Extérieur
Fμ XW: GDL 1 - 3 - 6 - 10 - 20μm
Fμ S: 40 - 120μm
Fμ XX: 10μm nom
MWc: 500 ppm

FILTRATION EFFICIENCY

ABSCHIEDERATE

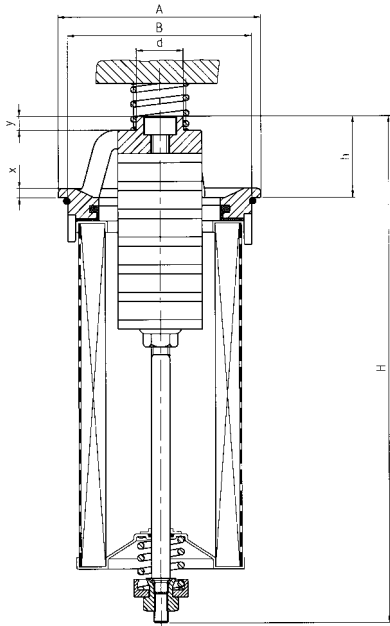
EFFICACITÉ DE FILTRATION

MEDIA FILTERMEDIA MÉDIA	MICRON MIKRON MICRON	FILTRATION RATIO FILTER FEINHEIT NIVEAU DE FILTRATION						
		$\beta_{X \geq 75}$	β_3	β_6	β_{10}	β_{12}	β_{20}	β_{25}
GDL1	1	400	4000	>5000	>5000	>5000	>5000	>5000
GDL3	3	≥ 75	1000	>5000	>5000	>5000	>5000	>5000
GDL6	6	8	≥ 75	1000	>5000	>5000	>5000	>5000
GDL10	10	5	17	≥ 75	>200	>5000	>5000	>5000
GDL20	20	N/A	2	8	10	≥ 75	>5000	>5000
XX10	33	N/A	N/A	2.6	3.5	6	23	>5000

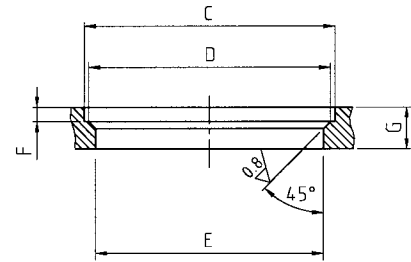
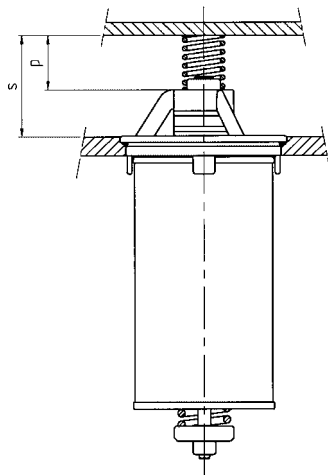
INSTALLATION DIMENSIONS

EINBAU-ABMESSUNGEN

ENCOMBREMENT

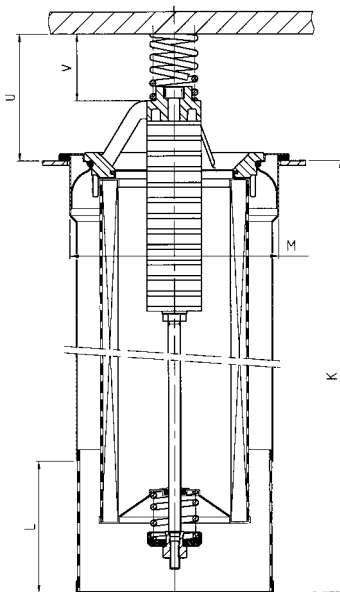


WITHOUT DIFFUSER



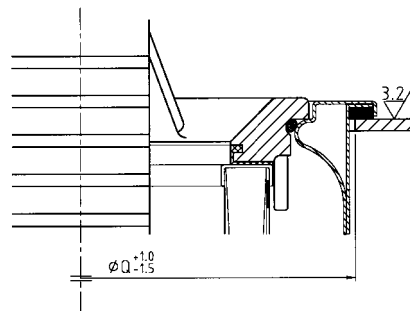
MOUNTING ARRANGEMENT

TYPE TYP TYPE	A	B	H	h	d	x	y	s	p	C	D	E	F	G
IN-AGB1-30	87	79	122	35	20	4	6	45	20	88	85	80	4	12
IN-AGB1-60	87	79	173	35	20	4	6	45	20	88	85	80	4	12
IN-AGB1-90	87	79	217	35	20	4	6	45	20	88	85	80	4	12
IN-AGB1-120	87	79	267	35	20	4	6	45	20	88	85	80	4	12
IN-AGB1-125	87	79	381	35	20	4	6	45	20	88	85	80	4	12
IN-AGB2-170	125	116	284	48	25	5	8	77	42	126	122	117	5	15
IN-AGB2-230	125	116	360	48	25	5	8	77	42	126	122	117	5	15
IN-AGB2-300	125	116	559	48	25	5	8	77	42	126	122	117	5	15
IN-AGB3-270	150	138	325	62	30	7	12	100	55	151	149	139	5	18
IN-AGB3-390	150	138	405	62	30	7	12	100	55	151	149	139	5	18
IN-AGB3-500	150	138	595	62	30	7	12	100	55	151	149	139	5	18
IN-AGB4-600	230	216	505	100	40	13.5	12	142	60	231	227	217	6	20
IN-AGB4-800	230	216	615	100	40	13.5	12	142	60	231	227	217	6	20
IN-AGB4-1000	230	216	720	100	40	13.5	12	142	60	231	227	217	6	20
IN-AGB4-1500	230	216	1000	100	40	13.5	12	142	60	231	227	217	6	20
IN-AGB4-2000	230	216	1265	100	40	13.5	12	142	60	231	227	217	6	20

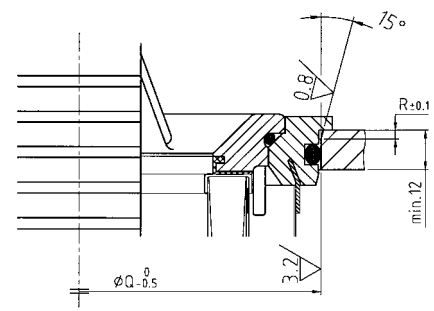


WITH DIFFUSER

AGB 3



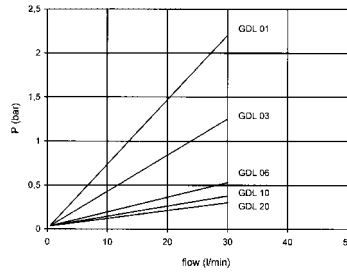
AGB 4



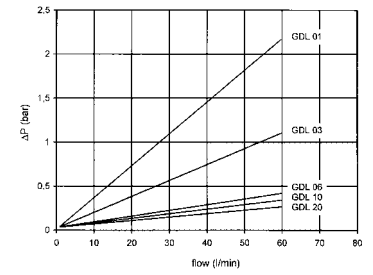
TYPE TYP TYPE	K	L	M	U	V	Q	R
IN-AGB3-270	290	110	175	106	55	178	
IN-AGB3-390	370	110	175	106	55	178	
IN-AGB3-500	560	120	175	106	55	178	
IN-AGB4-600	445	183	239	145	60	250.5	2.5
IN-AGB4-800	555	183	239	145	60	250.5	2.5
IN-AGB4-1000	660	183	239	145	60	250.5	2.5
IN-AGB4-1500	940	183	239	145	60	250.5	2.5
IN-AGB4-2000	1205	183	239	145	60	250.5	2.5

FLUID/FLUIDE $\nu = 32cSt$

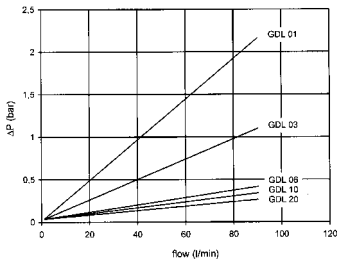
T- elements



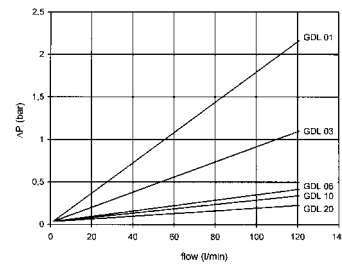
T2-elements



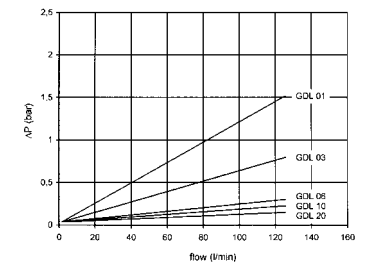
T3-elements



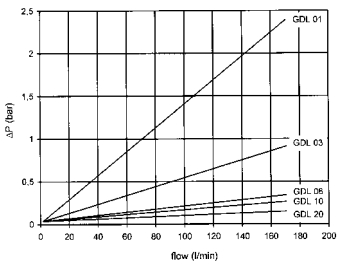
T3D-elements



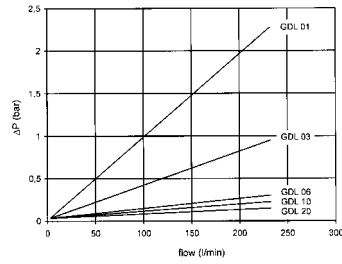
T3E-elements



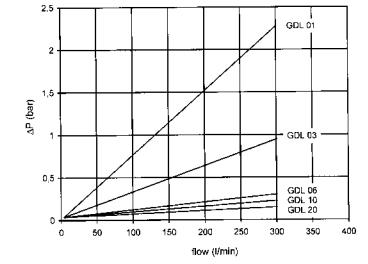
T4-elements



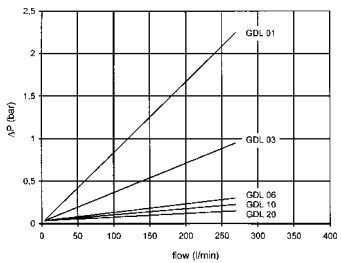
T5-elements



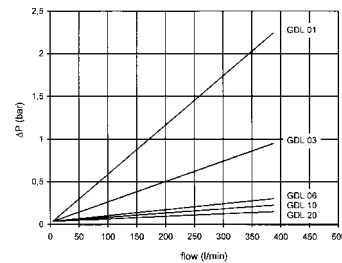
T5A-elements



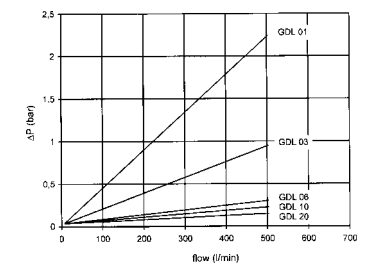
T6A-elements



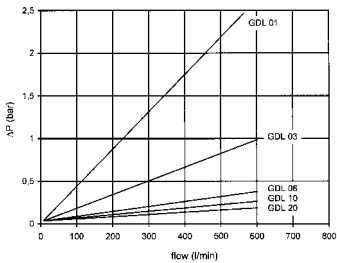
T8A-elements



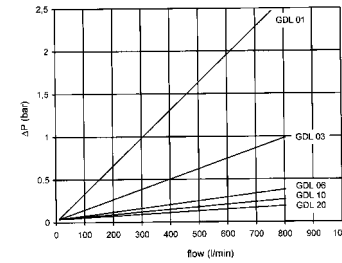
T8C-elements



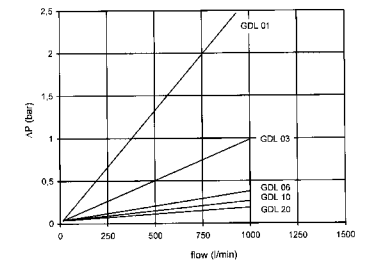
T10-elements



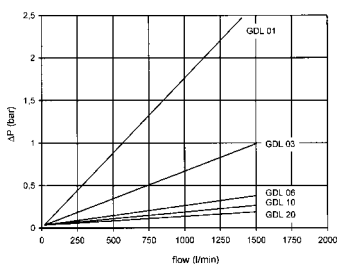
T11-elements



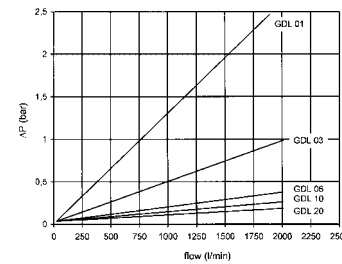
T12-elements



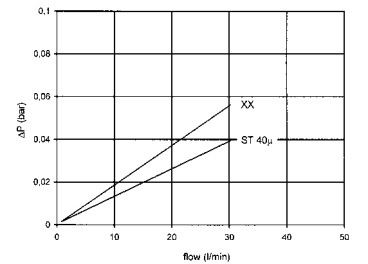
T13-elements



T14-elements



T-elements

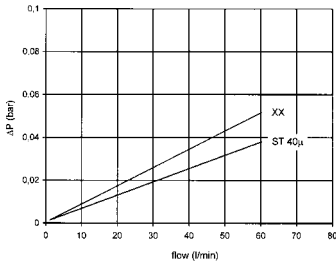


Δp/Q GRAPHS

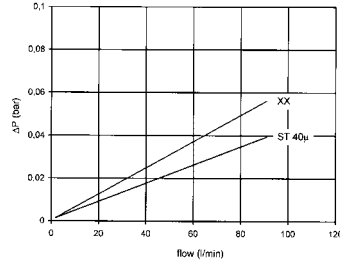
Δp/Q KENNLINIEN

Δp/Q COURBES DE DÉBIT

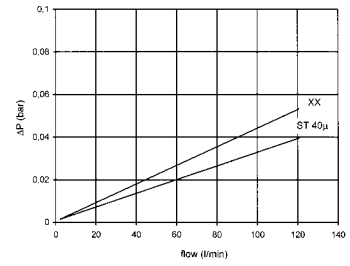
T2-elements



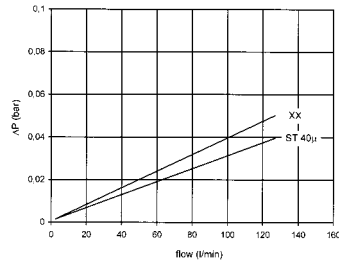
T3-elements



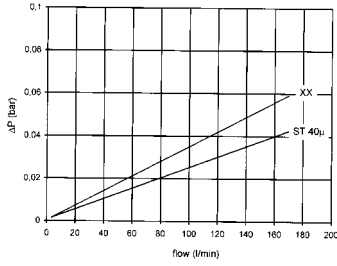
T3D-elements



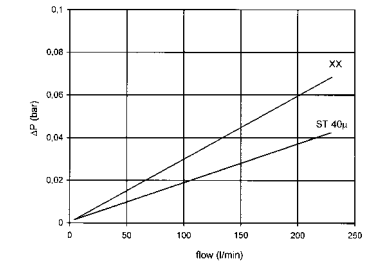
T3E-elements



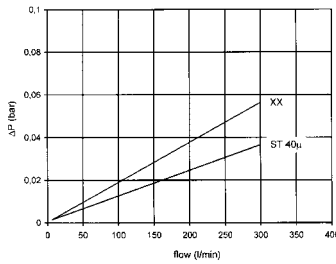
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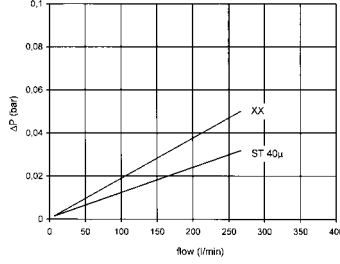
T5-elements



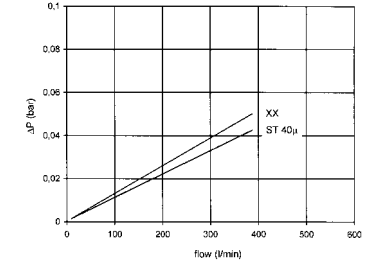
T5A-elements



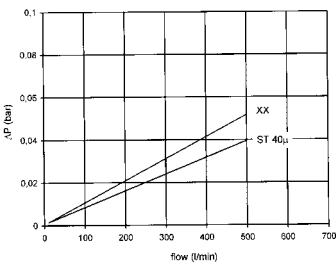
T6A-elements



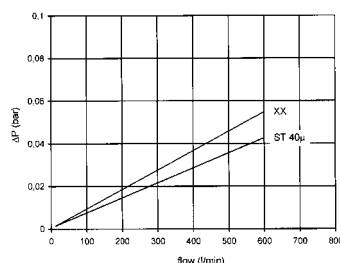
T8A-elements



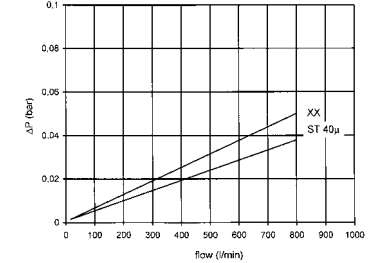
T8C-elements



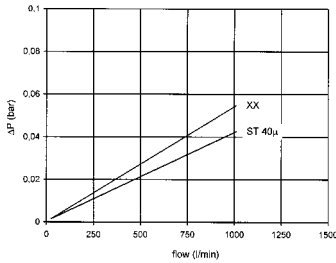
T10-elements



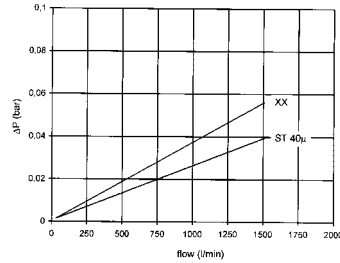
T11-elements



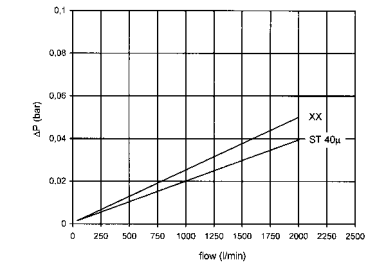
T12-elements



T13-elements



T14-elements



Δp CALCULATION

Δp KALKULATION

CALCUL Δp

FLUID/FLUID/FLUIDE A:
 $v_a = 32cSt / \gamma = 0.87$

Δp E = 0.5 bar
 Δp H = 0.1 bar
 Δp Tot. A = 0.6 bar



FLUID/FLUID/FLUIDE B:
 $v_b = 46cSt / \gamma = 1.1$

Δp E = (46/32)x0.5 = 0.72 bar
 Δp H = (1.1/0.87)x0.1 = 0.13 bar
 Δp Tot. B = 0.85 bar

1

Variety/ Ausführung/ Variante	code
IN-AGB 1-30	30
IN-AGB 1-60	60
IN-AGB 1-90	90
IN-AGB 1-120	120
IN-AGB 1-125	125
IN-AGB 2-170	170
IN-AGB 2-230	230
IN-AGB 2-300	300
IN-AGB 3-270	270
IN-AGB 3-390	390
IN-AGB 3-500	500
IN-AGB 4-600	600
IN-AGB 4-800	800
IN-AGB 4-1000	1000
IN-AGB 4-1500	1500
IN-AGB 4-2000	2000

3

Diffuser/ Auslaufrohr/ Bac d'écoulement	code
No Diffuser Ohne Auslaufrohr Sans bac d'écoulement	-
Diffuser for ≥ 3-270 Auslaufrohr für ≥ 3-270 Bac d'écoulement pour ≥ 3-270	T

4

Seal material/ Dichtungen/ Joints	code
Buna (NBR)	B
Neoprene (CR)	N
Viton (FPM)	V

5

By-pass setting/ By-pass Öffnungsdruck/ By-pass	code
0.8 bar	08
1.5 bar	15
blocked	B

2

Element/ Element/ Élément	Nominal	Filtration fineness absolute/ Filterfeinheit Absolut/ Finesse de filtration absolue				
	Cellulose/ Zellulose/ Cellulose	LEIF® HPFE glass fibre/ HPFE Glasfaser/ HPFE fibre de verre βX≥75				Stainless steel mesh/ Rostfrei Metallgewebe/ Toile métallique inoxydable
	10µm	3µm	6µm	10µm	20µm	40µm
	code	code	code	code	code	code
IN-AGB 1-30	TXX-10	TXWL-3	TXWL-6	TXWL-10	TXWL-20	ST-40
IN-AGB 1-60	TXX2-10	TXWL2-3	TXWL2-6	TXWL2-10	TXWL2-20	ST2-40
IN-AGB 1-90	TXX3-10	TXWL3-3	TXWL3-6	TXWL3-10	TXWL3-20	ST3-40
IN-AGB 1-120	TXX3D-10	TXWL3D-3	TXWL3D-6	TXWL3D-10	TXWL3D-20	ST3D-40
IN-AGB 1-125	TXX3E-R-10	TXWL3E-3	TXWL3E-6	TXWL3E-10	TXWL3E-20	ST3E-R-40
IN-AGB 2-170	TXX4-10	TXWL4-3	TXWL4-6	TXWL4-10	TXWL4-20	ST4-40
IN-AGB 2-230	TXX5-10	TXWL5-3	TXWL5-6	TXWL5-10	TXWL5-20	ST5-40
IN-AGB 2-300	TXX5A-10	TXWL5A-3	TXWL5A-6	TXWL5A-10	TXWL5A-20	ST5A-40
IN-AGB 3-270	TXX6A-10	TXWL6A-3	TXWL6A-6	TXWL6A-10	TXWL6A-20	ST6A-40
IN-AGB 3-390	TXX8A-10	TXWL8A-3	TXWL8A-6	TXWL8A-10	TXWL8A-20	ST8A-40
IN-AGB 3-500	TXX8C-10	TXWL8C-3	TXWL8C-6	TXWL8C-10	TXWL8C-20	ST8C-40
IN-AGB 4-600	TXX10-10	TXWL10-3	TXWL10-6	TXWL10-10	TXWL10-20	ST10-40
IN-AGB 4-800	TXX11-10	TXWL11-3	TXWL11-6	TXWL11-10	TXWL11-20	ST11-40
IN-AGB 4-1000	TXX12-10	TXWL12-3	TXWL12-6	TXWL12-10	TXWL12-20	ST12-40
IN-AGB 4-1500	TXX13-R-10	TXWL13-R-3	TXWL13-R-6	TXWL13-R-10	TXWL13-R-20	ST13-R-40
		In case of non LEIF®, delete L in code/ Im falle von keine LEIF®, L streichen im Code/ Si pas de LEIF®, supprimer L en code				
IN-AGB 4-2000	TXX14-10	TXW14-3	TXW14-6	TXW14-10	TXW14-20	ST14-40

Ordering example **element**
Bestellbeispiel **Element**
Exemple de commande de l'**élément**

Ordering example **filter**
Bestellbeispiel **Filter**
Exemple de commande de **filtre**

2	4
TXW8A-20	B

Std	1	2	3	4	5
IN	390	TXW8A-20	T	B	B

Note: Spare LEIF® element: no sleeve included.
Ersatz LEIF®-Element ohne Filterkorb.
Pièce détachée l'élément LEIF®: sans enveloppe métallique.

Note: Filter with LEIF® element and sleeve.
Filter mit LEIF®-Element und Filterkorb.
Filtre avec l'élément LEIF® et enveloppe métallique.



Due to continuous product improvement published data and specifications are subject to change without notice. / Aufgrund Produk
ohne Mitteilung geändert werden. / En fonction de l'évolution technique du matériel, nous nous réservons le droit de modifier c

t-Verbesserungen können Daten und Spezifikationen
ette documentation sans préavis.

*Insert filter
Einbaufilter
Parties intérieur es intégrées*

Model IN-AGB

FEATURES AND BENEFITS

- **Designed for return line filtration**
- **Flow direction from in to out**
- **Magnetic pre-filtration**
- **Simple and effective full flow by-pass**
- **Wide range of removal ratings:**
 - **GDL - glass fibre**
 - **XX - cellulose**
 - **S - stainless steel wire mesh**
- **Funnel or diffuser to avoid foaming**
- **Option: LEIF®**

MERKMALE UND VORTEILE

- **Model für Rücklauf­filterung**
- **Durchflussrichtung von innen nach aussen**
- **Magnetische Vorfilterung**
- **Einfache und effektive By-pass-Konstruktion**
- **Filterfeinheiten in:**
 - **GDL - Glasfaser**
 - **XX - Zellulose**
 - **S - Ed­elstahlge­webe**
- **Auslaufrohr zur Verhütung von Schaumbildung**
- **Option: LEIF®**

AVANTAGES ET BÉNÉFICES

- **Pour filtration sur circuit de retour**
- **Sens de filtration de l'intérieur vers l'extérieur**
- **Pré­filtra­tion mag­né­ti­que**
- **Dé­ri­va­tion by-pass simple et efficace**
- **Gamme étendue de finesses de filtration en:**
 - **Fibre de verre - GDL**
 - **Cellulose - XX**
 - **Maille en acier inoxydable - S**
- **Bac d'écoulement anti-mousse en option**
- **Option: LEIF®**