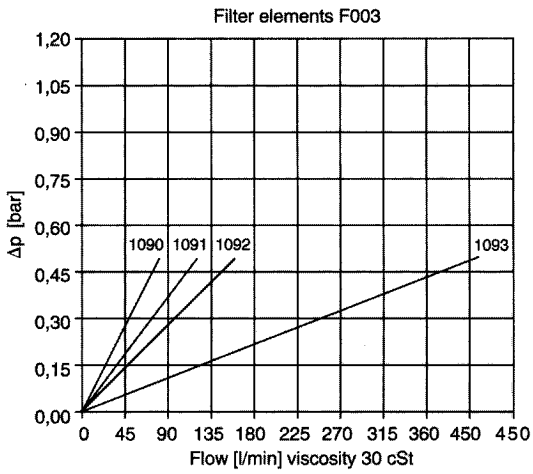
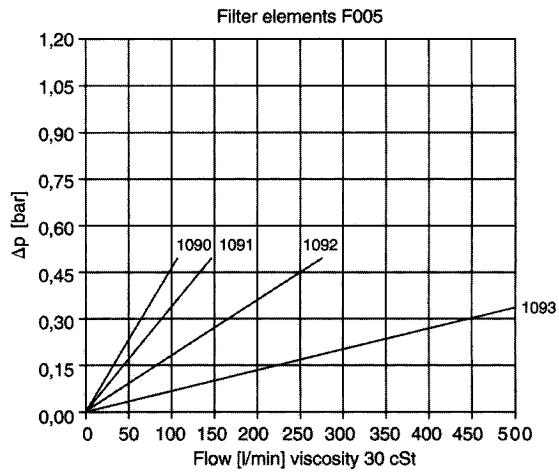
Pressure drop curves series 1090

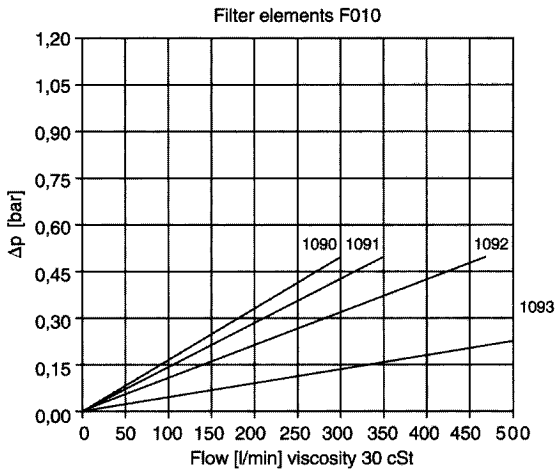
The recommended level of the initial pressure drop for low pressure filters is max 0,3 bar.

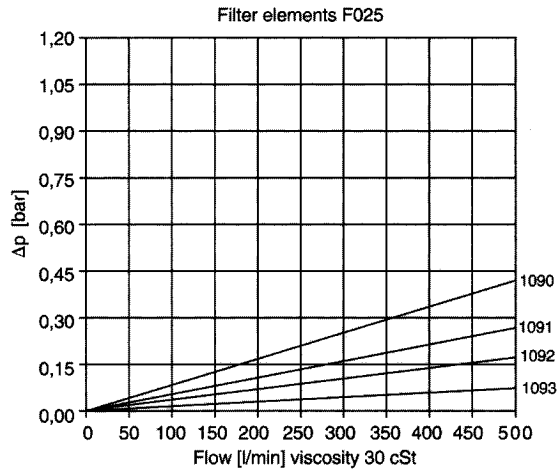
If the medium used has a viscosity different from 30 cSt, pressure drop over the filter can be estimated as follows:

$\Delta p = (\Delta p_{30} \times \text{viscosity of medium used}) / 30\ cSt$







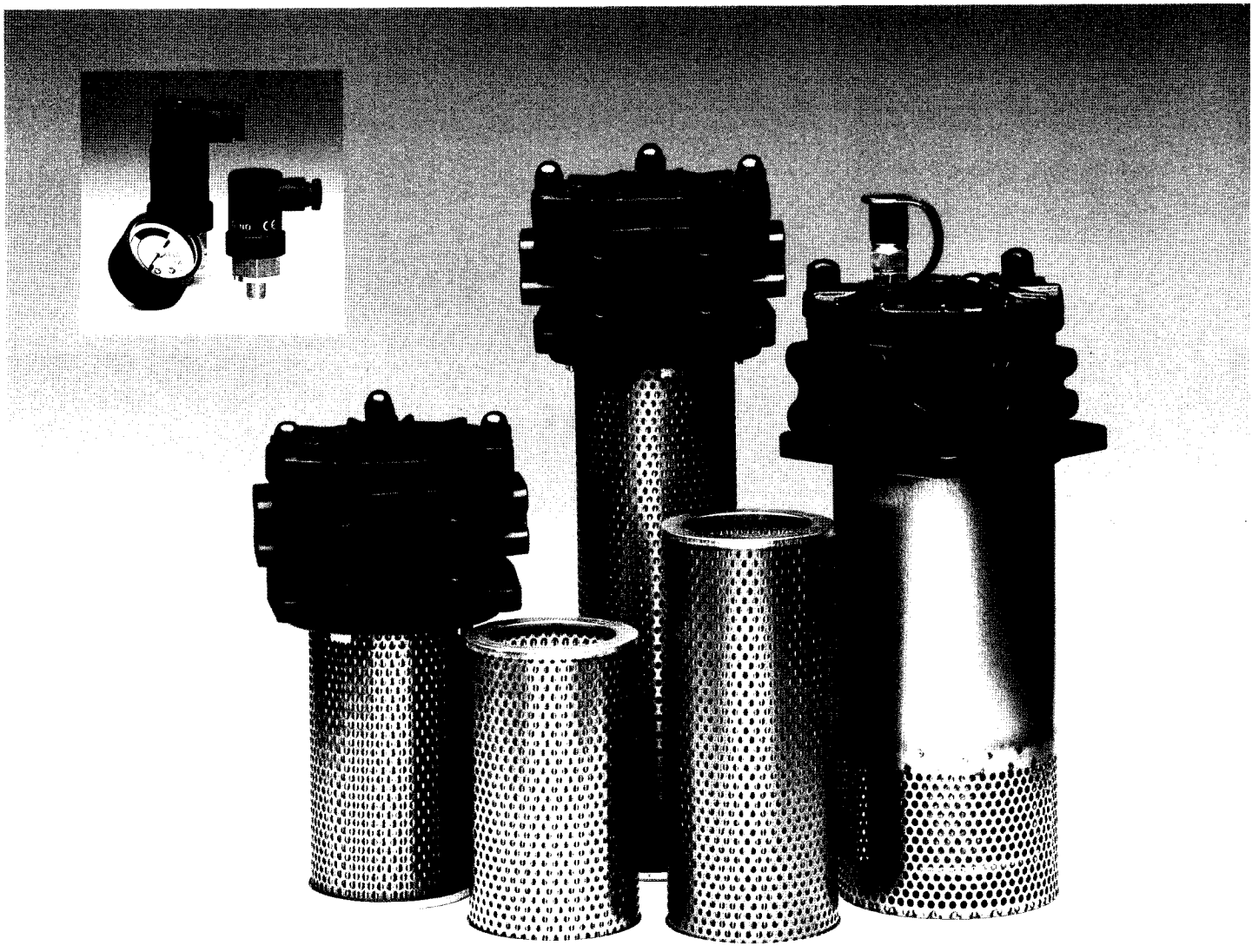


Hydraulic

Low Pressure Filters Series 1095

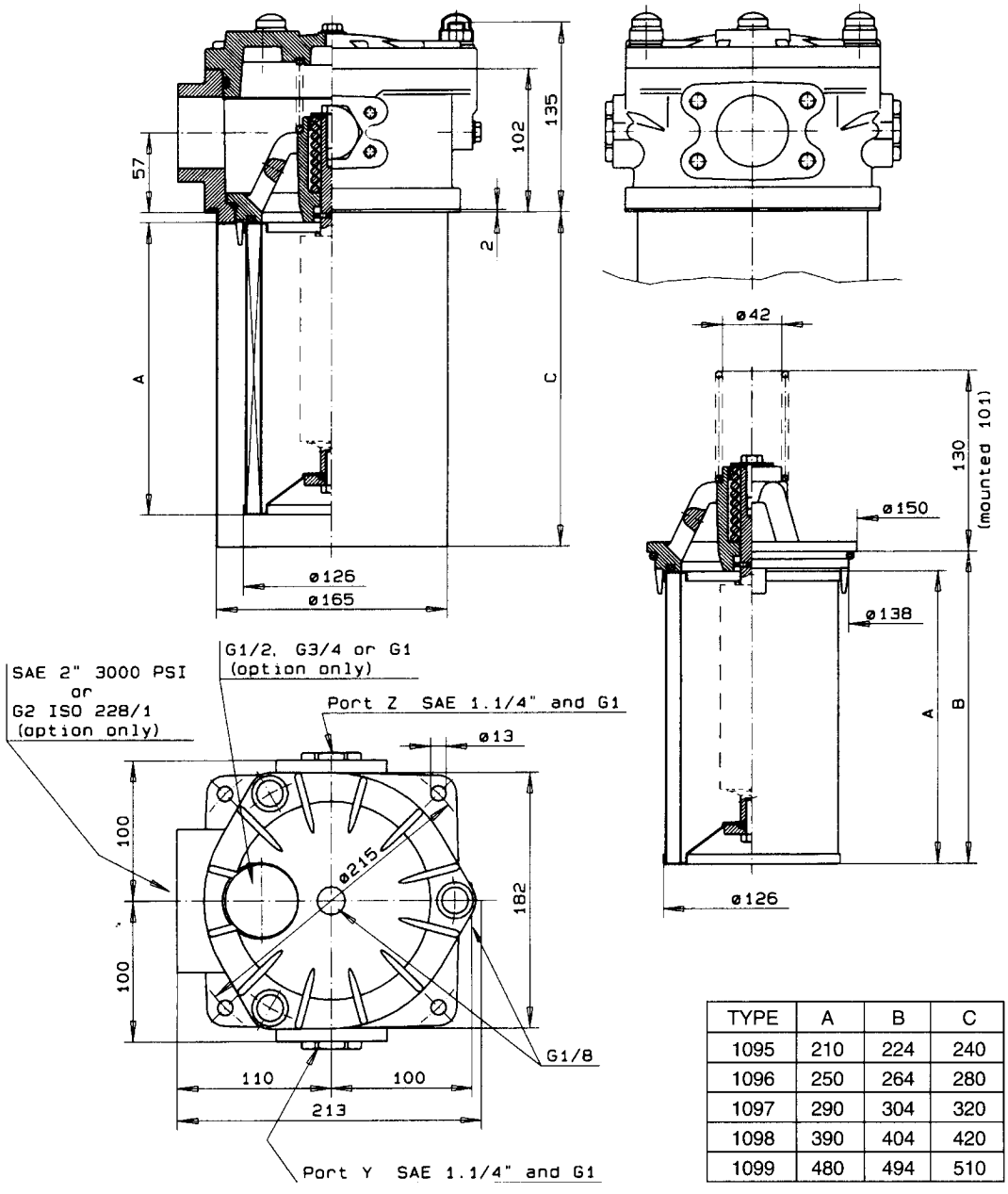
Application: As a tank top or inside the tank installation filter in hydraulics and lubrication
Max 500 l/min • 8 bar

Brochure 3.50
3.1997 / FIN



Parker
Filtration

Low pressure filters series 1095



TYPE	A	B	C
1095	210	224	240
1096	250	264	280
1097	290	304	320
1098	390	404	420
1099	480	494	510

Technical Data:

Assembly	as a tank top with holder inside tank
Operating pressure	max 8 bar (800 kPa)
Connections	thread G2 (ISO 228/1) or flange SAE 2", max pressure 210 bar
Seal material	nitrile (ordering code B)
Operating temperature range	–30°...+100°C
Degree of filtration	determined by Multi-pass -test according to ISO 4572, see the separate table
Filtration material	special fiber glass mixture
Flow fatique characteristics	filter media is supported so that the optimal fatique life is achieved (ISO 3724)
Element collapse rating	8 bar (ISO 2941)
By-pass valve	opening pressure 1,6 bar (0,16 MPa)
Pressure indicator options	1,0 ± 0,2 bar: – visual pressure meter (code M) – electric pressure indicator (code G) – maximum voltage 220 V – current 0,5 A (res.) / 0,2 A (ind.) – enclosure class IP65
Magnet pack	available as option (code M)
Filter housing and holder	material aluminium (code A), splash guard of steel
Filter element	end cap material steel (code S)

Ordering instructions

		Table 1		Table 2		Table 3		Table 4		Table 5		Table 6
FILTER ASSEMBLY: *(Filter housing without element FT)	**FK***		.		.		**A**		.		–	

		Table 1		Table 2		Table 3		Table 4		Table 6
FILTER ELEMENT WITH HOLDER:	**FH**		.		.		**A**		–	

		Table 1		Table 2		Table 3	
FILTER ELEMENT:	**FC**		.		.		**S**

		Table 7
PRESSURE INDICATOR:	**FPC**	

		Table 3
SEAL KIT:	**FD1095-**	

Table 1

FILTER TYPE	
Element length*	CODE
210 mm	1095
250 mm	1096
290 mm	1097
390 mm	1098
480 mm	1099

* See filter capacity table to choose the right element size. For more information look also the pressure drop curves at backside.

Table 2

DEGREE OF FILTRATION	
According to ISO 4572 ($\beta_x \geq 75$)	CODE
3 micron absolute	F003
5 micron absolute	F005
10 micron absolute	F010
25 micron absolute	F025

Table 3

SEAL TYPE	
Seal material options	CODE
Nitrile	B

Table 4

BY-PASS VALVE	
Opening pressure	CODE
1,6 bar	16

Table 5

FILTER CONNECTION	
Connection type	CODE
G2 thread	GX32
SAE 2" flange, 210 bar	SX32

Table 6

OPTION	
Additional connection / magnet option	CODE
G1/2 at cover	V1
G3/4 at cover	V2
G1 at cover	V3
Magnet pack	M
Magnet pack + V1	M1
Magnet pack + V2	M2
Magnet pack + V3	M3

ORDERING EXAMPLES:
Please note that when choosing the right size of the filter assembly, choose first the desired connections and the degree of filtration. The element length (table 1) can be decided last according to the Δp demands of the system.

COMPLETE FILTER: **FK1098.F003.BA16.SX32**
This code is for complete filter assembly with 390 mm long element and 3 micron absolute degree of filtration ($\beta_3 \geq 75$, ISO 4572). Seal material is nitrile and the filter housing is of aluminium. Filter includes 1,6 bar by-pass valve and SAE 2" flange for connection.

FILTER ELEMENT: **FC.1097.F010.BS**
This filter element is 290 mm long. Its degree of filtration is 10 micron absolute ($\beta_{10} \geq 75$, ISO 4572). The seal material is nitrile and the element caps are of steel.

Table 7

PRESSURE INDICATOR	
Indicator type option	CODE
Visual indicator 1,0 bar	M10
Electric indicator 1,0 bar	G10

DEGREE OF FILTRATION ACCORDING TO ISO 4572

Type	Micron rating sizes x for β-value			Final loss of pressure, Δp (bar)
	$\beta_x=2$	$\beta_x=20$	$\beta_x \geq 75$	
F003	< 2	2	3	4.0
F005	2	4	5	
F010	5	8	10	
F025	10	20	25	

FILTER CAPACITY

NOMINAL FLOW (l/min) FOR COMPLETE FILTER VISCOSITY 30 cSt	
Filter type	Filter connections
	GX32 / SX32
FK1095.F010	210
F025	230
FK1096.F010	240
F025	270
FK1097.F010	290
F025	310
FK1098.F010	400
F025	420
FK1099.F010	470
F025	500