

Use

Flow limiting devices are primarily used in oil circulating systems for the supply of friction points.

The volume flow rate can be adjusted stepwise by changing the various orifice disks at the range of 0,1 to 9,0 l/min.

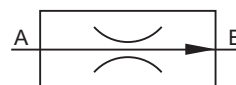
The simple exchange of the orifice disks enable a subsequent change of the flow rate values, also at the machine. The special adjusting unit causes that the volume flow rate is constantly independent from pressure and viscosity.

BEKA flow limiting devices can directly be installed in front of progressive distributors of the types SXW-1 and SXW-2, by means of a connection plate with plug-in sieve. Different base plates for the installation of up to 6 flow limiting devices are listed in the accessories.

The electric monitoring of the volume flow rate at the flow limiting device is done via a proximity switch. If the volume flow rate falls below the value of approx. 70 %, a malfunction signal is send. The installation can be done subsequently.

Please take into account a reserve capacity of approx. 20 % above the theoretical flow rate values as well as a pressure differential in front and after the flow limiting device of approx. 5 bar.

Symbol according to DIN ISO 1219



Technical data

Operating pressure without add-ons: 5 to 200 bar

Operating pressure with signal transmitter:
5 bis 85 bar

Necessary differential pressure
between inlet and outlet: ≥ 5 bar

Lubricant: oils on synthetic and mineral base

Operating viscosity: 20 to 600 mm²/s

Ambient and lubricant temperature:
(Pay attention to operating viscosity!)

without add-on 0 to 100 °C

with signal transmitter 0 to 90 °C

Installation position: optional

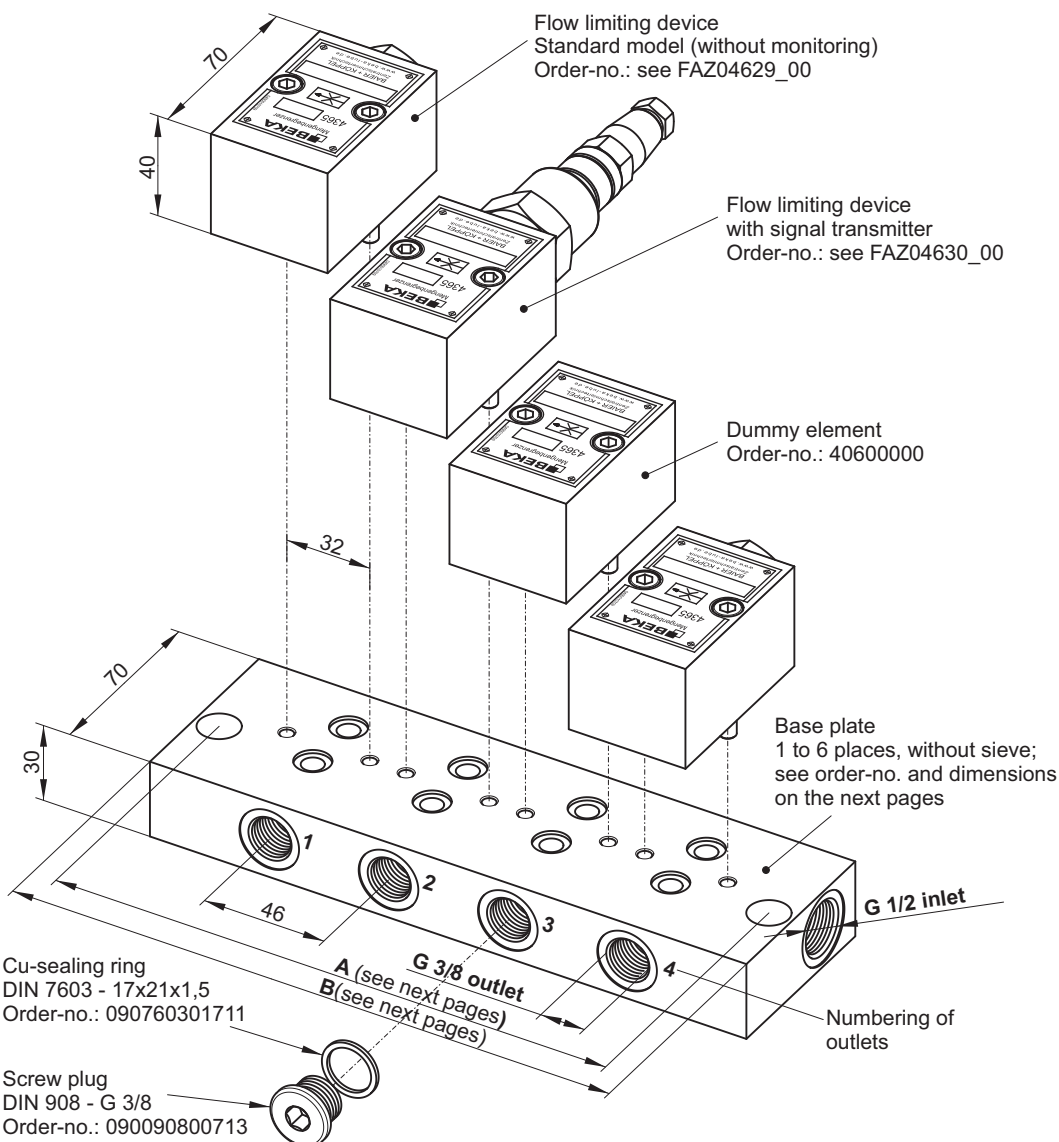
Housing material: aluminium anodized

Protection class: with signal transmitter IP 67

Weight (standard model): 386,4 g

Scope of delivery:
with fastening screws DIN 912 - M6x45

Flow limiting device



Order key for flow limiting device with base plate type-no. 4367

e.g.: 4367	GE12L	GE08L	110SG	120K	000	180K	200K	000
Type-no.			Outlet 1*	Outlet 2*	Outlet 3*	Outlet 4*	Outlet 5*	Outlet 6*

Inlet-fitting	Outlet-fitting
G1/2 (w/o)	G3/8 (w/o)
GE06L	
GE08L	
GE10L	
GE12L	
GE15L	
GE18L	
GE22L	-

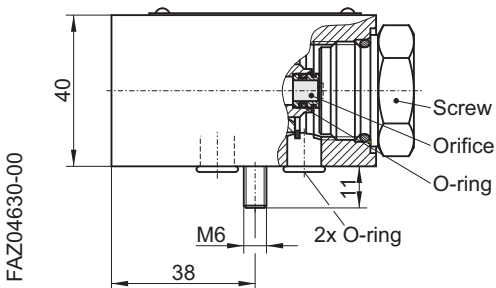
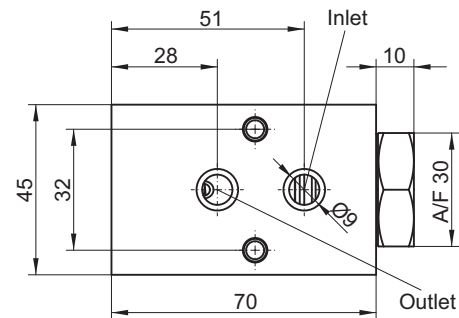
Volume flow (l/min)**	Orifice disk-Ø (mm)	Code	Monitoring
-	Dummy element** 40600000	000	-
Codes see table Orifice disk Ø and flow rate values			K = no SG = signal trans.

* Numbering of outlets see drawing of base plate

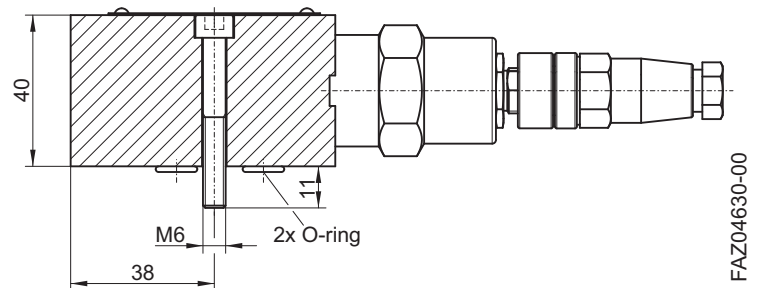
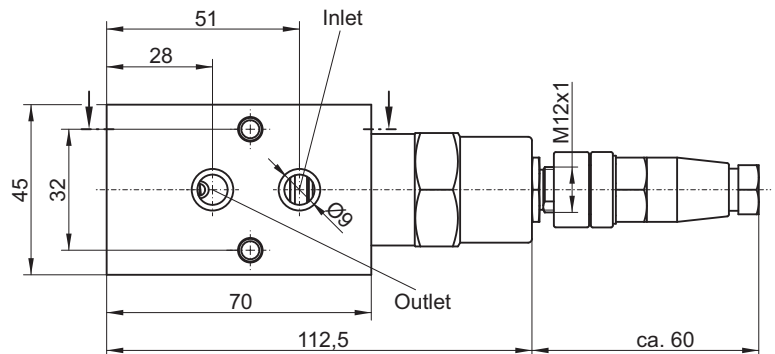
** Outlets at dummy elements are equipped with screw plugs

*** further orifice disks-Ø on demand

Standard model (without monitoring)



with signal transmitter



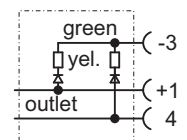
Switch position
at blocked nozzle



Normal position /
go position



Trouble position at
pressure/ volume deficit



Order key for flow limiting device without base plate type-no. 4365

Type number	4365	4365 01 110 000
Code	4365	
Monitoring	without	with signal transm. 24 V
Code	01	02
Orifice disk Ø (mm)	see table orifice disk-Ø (next page)	
Code	see table orifice disk-Ø (next page)	
Special models		

Order key for spare part orifice disk* acc. to F4365/05-00

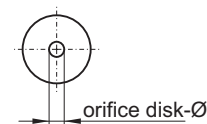
Article number*	F4365/05-00	F4365/05-00 110
Code	F4365/05-00	
Orifice disk Ø (mm)	see table orifice disk-Ø (next page)	
Code	see table orifice disk-Ø (next page)	

*For a replacement orifice disk, please order also an o-ring, order no. 09037710031641

Flow limiting device

Table volume flow and orifice disks-Ø

for order key series-no. 4367, 4365 or article-no. F4365/05-00



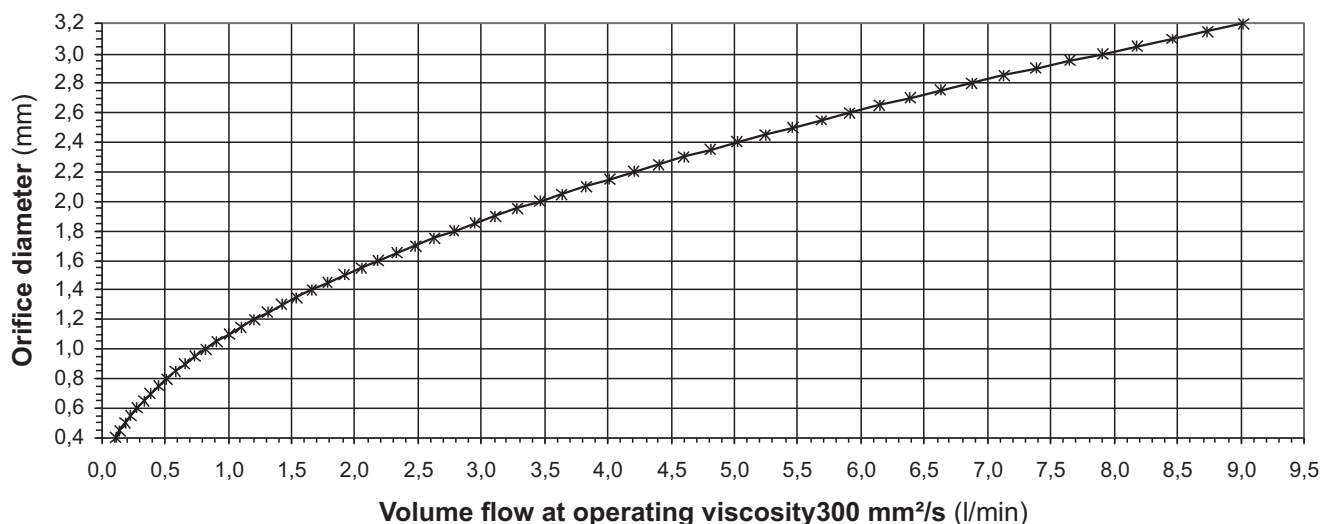
Flow (l/min)**	Orifice-Ø * (mm)	Code
0,11	0,40	040
0,15	0,45	045
0,19	0,50	050
0,23	0,55	055
0,28	0,60	060
0,33	0,65	065
0,39	0,70	070
0,45	0,75	075
0,51	0,80	080
0,59	0,85	085
0,66	0,90	090
0,74	0,95	095
0,82	1,00	100
0,91	1,05	105
1,01	1,10	110
1,10	1,15	115
1,21	1,20	120
1,31	1,25	125
1,42	1,30	130
1,54	1,35	135
1,66	1,40	140
1,79	1,45	145
1,92	1,50	150
2,05	1,55	155
2,19	1,60	160
2,33	1,65	165
2,48	1,70	170
2,63	1,75	175
2,79	1,80	180

Flow (l/min)**	Orifice-Ø * (mm)	Code
2,95	1,85	185
3,12	1,90	190
3,29	1,95	195
3,46	2,00	200
3,64	2,05	205
3,82	2,10	210
4,01	2,15	215
4,21	2,20	220
4,40	2,25	225
4,61	2,30	230
4,81	2,35	235
5,02	2,40	240
5,24	2,45	245
5,46	2,50	250
5,68	2,55	255
5,91	2,60	260
6,15	2,65	265
6,38	2,70	270
6,63	2,75	275
6,88	2,80	280
7,13	2,85	285
7,38	2,90	290
7,64	2,95	295
7,91	3,00	300
8,18	3,05	305
8,45	3,10	310
8,73	3,15	315
9,02	3,20	320

* other orifice-Ø on demand

** values are valid at an operating viscosity of 300 mm²/s

Diagram



Subject to alterations!

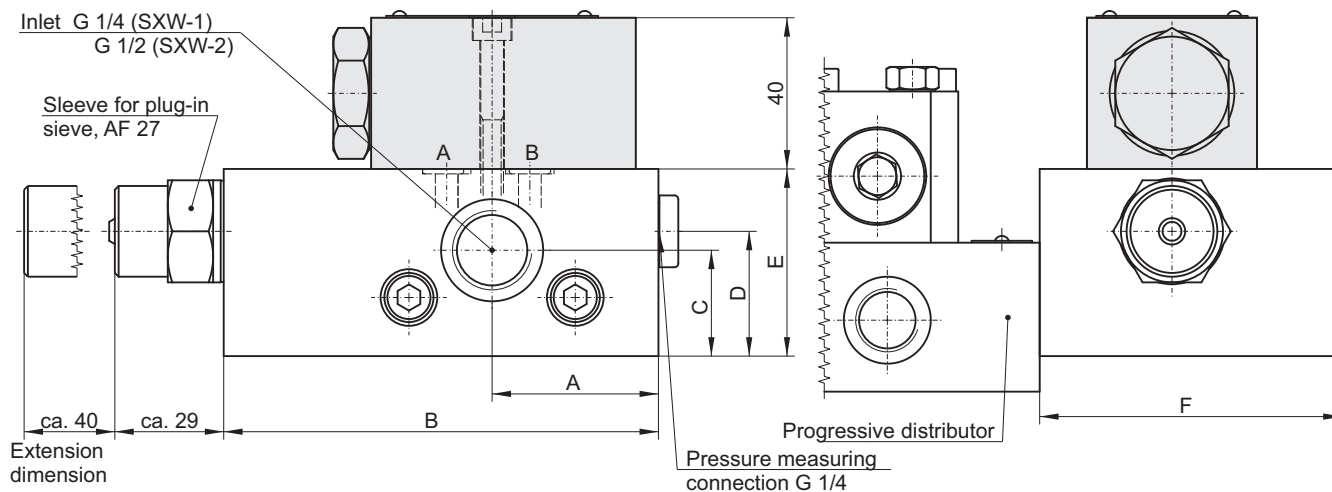
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Accessories



Flow limiting device

Connection plate for progressive distributor SXW-1 or SXW-2



Dim. (mm) SXW-1: A = 35,5; B = 105; C = 27; D = 30; E = 55; F = 60
 SXW-2: A = 44; B = 115; C = 28; D = 33; E = 49,5; F = 80

Conn. plate for distributor	w. plug-in sieve (mm)	Order-no.
SXW-1	MW* 0,1	40620303
SXW-1	MW* 0,3	40620304
SXW-2	MW* 0,1	40620403
SXW-2	MW* 0,3	40620404

* MW = mesh size

Spare parts plug-in sieve (mm)	Order-no.
MW* 0,1	04410057
MW* 0,3	04410064

* MW = Maschenweite - mesh size