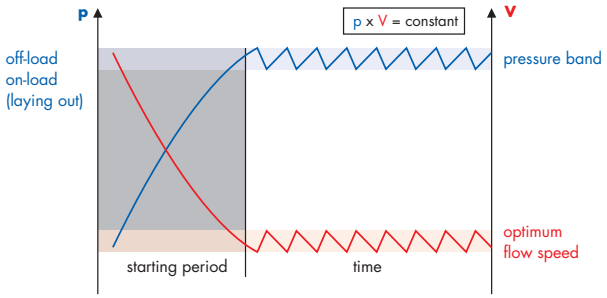
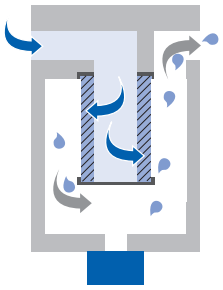
HIGHER COMPRESSED AIR QUALITY
GREATER RELIABILITY
LONGER LIFETIME

Compressed air treatment systems are always designed for specific flow rates.
They can only function at their best within a certain range.

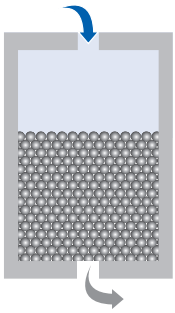


If the compressor startup takes place without any pressure, there is a danger that oil and water droplets will overrun the filter/dryer barrier.
This "overrunning" of compressed air treatment systems can create serious problems.

Oil in the network

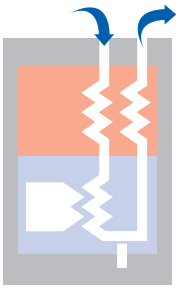


Coalescence filter:
separated droplets are entrained

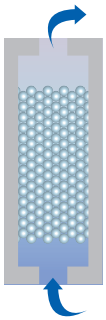


Activated carbon adsorber:
contact time for oil vapour adsorption too short

Water in the network



Refrigeration dryer:
contact time in heat exchanger too short



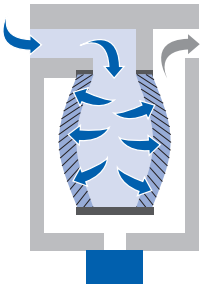
Membrane dryer:
insufficient expansion gradient

Water separator and filter:
Condensate in the quiet zone is entrained

Adsorption dryer:
contact time in desiccant bed too short

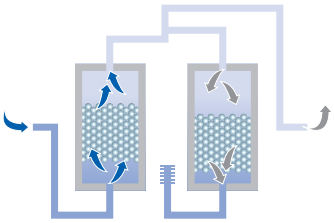
The solution: minimum pressure valves

Operational reliability



Filter:
Tensile stress on the drainage layer can lead to tearing or complete loss of drainage function

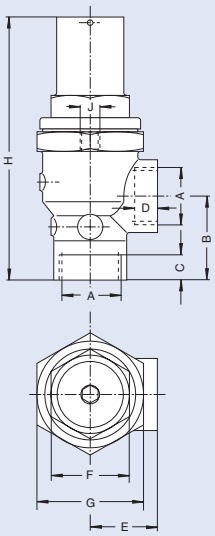
Adsorption dryer:
increased abrasion/loss of desiccant reduces dryer efficiency. Higher cost due to dust filter clogging up quickly.



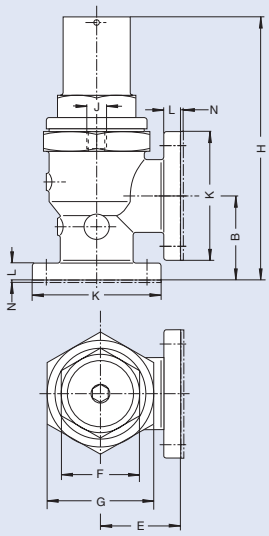
HIGHER COMPRESSED AIR QUALITY
GREATER RELIABILITY
LONGER LIFETIME

TECHNICAL DATA

Filter	Max. flow rate m³/h	Weight
MPVL15B	78	0.35
MPVL20B	102	0.45
MPVL25B	240	0.8
MPVL40B	414	1.5
MPVL50B	690	3.3
MPVL50F	690	5.7
MPVL65F	1080	9.5
MPVL80F	1620	13

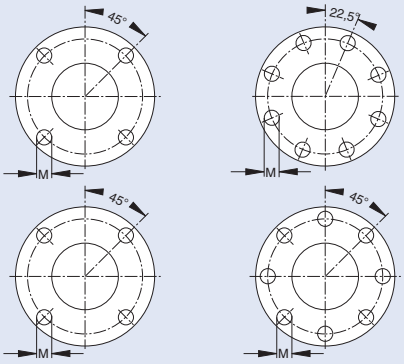


MPVL B



MPVL F

max. operating pressure	16 bar
operating temperature	0 to 100 °C
max. flow resistance	0.03 – 0.2 bar
start of opening	4.75 bar +/–0.25 bar
valve fully open	1.5 to 2 bar above opening pressure
valve fully closed	0.5 to 1 bar below opening pressure
flow rate related to	20 °C and 1 bar



MPVL50F
MPVL65F

MPVL80F

DIMENSIONS

Filter	B	C	D	E	F	G	H	J	K	L	M	N*
MPVL15B	43	13	13	31	36	46	110					
MPVL20B	50.5	15	15	36	46	55	124	M5				
MPVL25B	56.5	15	15	42.5	55	65	138	M5				
MPVL32B	67.5	20	20	48	50	70	175	M8				
MPVL40B	67.5	20	20	55	65	85	214	M8				
MPVL50B	78	24	24	66	85	100	240	M10				
MPVL50F	100			120	85	100	262	M10	165	22	4x Ø18 TK Ø125	
MPVL65F	103			150	95	130	321	M10	185	24	4x Ø18 TK Ø145	
MPVL80F	125			125	115	145	389	M12	190.5	24	4x Ø18 TK Ø160	2

Valve type supplied with BEKO flange seals for installation between plain flanges.

BEKO TECHNOLOGIES GMBH
Im Taubental 7
41468 Neuss
Germany
Phone +49 2131 988-0
Fax +49 2131 988-900
beko@beko.de
www.beko.de

XP PV 001/001
INT. Edition 06.05