

# HAVA DAMPERLERİ / AIR VOLUME DAMPERS

E.1.1 / E.1.7



**VVD-S**  
**HAVA DAMPERİ**  
**AIR VOLUME DAMPER**



**VVD-C**  
**HAVA DAMPERİ**  
**AIR VOLUME DAMPER**

E.2.1 / E.2.4



**VBD**  
**GERİ DÖNÜŞSÜZ DAMPER**  
**BACKDRAFT DAMPER**

## HAVA DAMPERİ VVD

### Hava Damperi

Havlandırma sistemlerinde kanal hava miktarını ayarlamak için kullanılır. isteğe bağlı olarak servomotor ilavesi yapılabilir. Kanatlar arasında kauçuk sızdırmazlık contası bulunur. Kanatlar aerodinamik yapıya sahip olduğundan direnç oluşturmazlar.

Hava damper kasası kendinden flanşlı olduğundan kanala kolayca montajı yapılabılır.

Kanat malzemesi özel haddelenmiş alüminyum profildir.



## VVD-S



## VVD-C

## AIR VOLUME DAMPER VVD

### Air Volume Damper

Dampers are used to regulate air quantity at grilles.

Also motor can be added upon request. The blades have rubber gasket on the edges for less leakage.

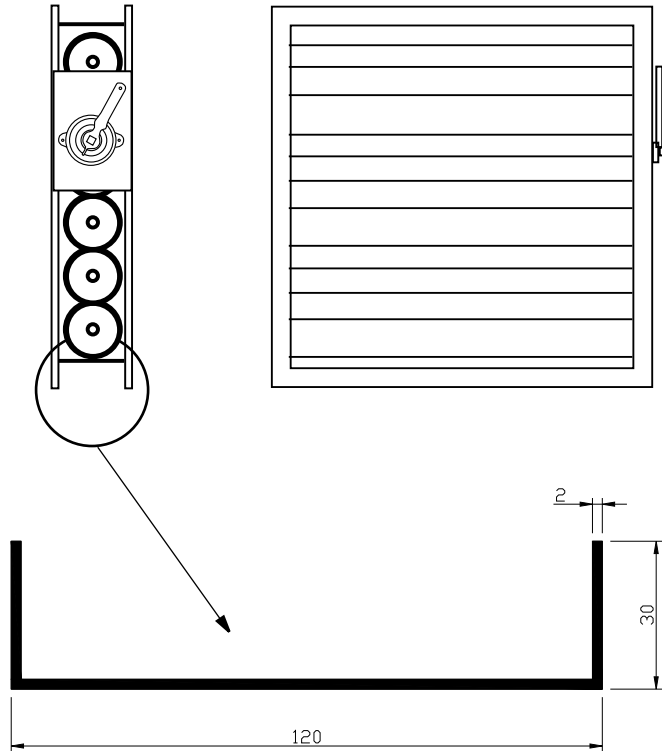
The blades have aerodynamically shaped for little residence.

The damper body is shelf flanged to installation easily.

The blades and casing are made of aluminium profile standard.

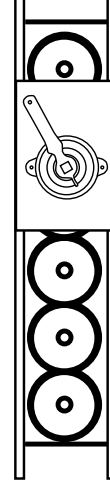
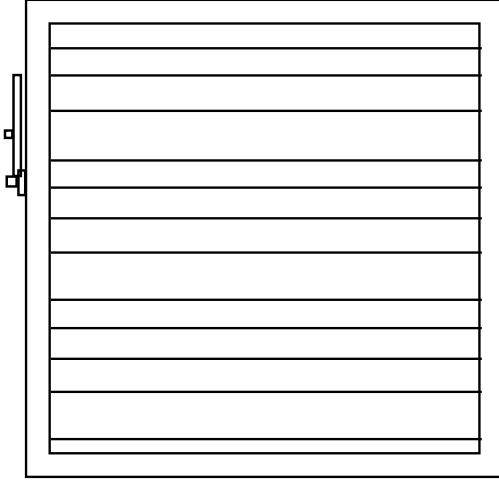
**STANDART ÖLÇÜLER VE Ak(m<sup>2</sup>) DEĞERLERİ**

	200	300	400	500	600	800	1000	1200	1400	1600
100	0,021	0,031	0,041	0,052	0,062	0,083	0,103	0,124	0,144	0,165
200	0,040	0,060	0,081	0,101	0,121	0,161	0,201	0,242	0,282	0,322
300	0,060	0,090	0,120	0,150	0,180	0,240	0,300	0,360	0,419	0,479
400	0,080	0,119	0,159	0,199	0,239	0,318	0,398	0,477	0,557	0,636
500	0,099	0,149	0,198	0,248	0,298	0,397	0,496	0,595	0,694	0,794
600	0,119	0,178	0,238	0,297	0,357	0,475	0,594	0,713	0,832	0,951
700	0,138	0,208	0,277	0,346	0,415	0,554	0,692	0,831	0,969	1.108
800	0,158	0,237	0,316	0,395	0,474	0,632	0,791	0,949	1,107	1,265
900	0,178	0,267	0,356	0,444	0,533	0,711	0,889	1,067	1,244	1,422
1000	0,197	0,296	0,395	0,494	0,592	0,790	0,987	1,184	1,382	1,579
1100	0,217	0,326	0,434	0,543	0,651	0,868	1,085	1,302	1,519	1,736
1200	0,237	0,355	0,473	0,592	0,710	0,947	1,813	1,420	1,657	1,893
1300	0,256	0,384	0,513	0,641	0,769	1,025	1,282	1,538	1,794	2.051
1400	0,276	0,414	0,552	0,690	0,828	1,104	1,830	1,656	1,932	2.208
1500	0,296	0,443	0,591	0,739	0,887	1,181	1,478	1,774	2,069	2,365
1600	0,315	0,473	0,630	0,788	0,946	1,261	1,576	1,891	2,207	2,522

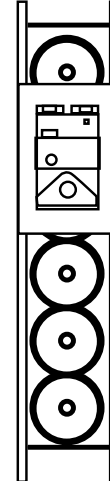
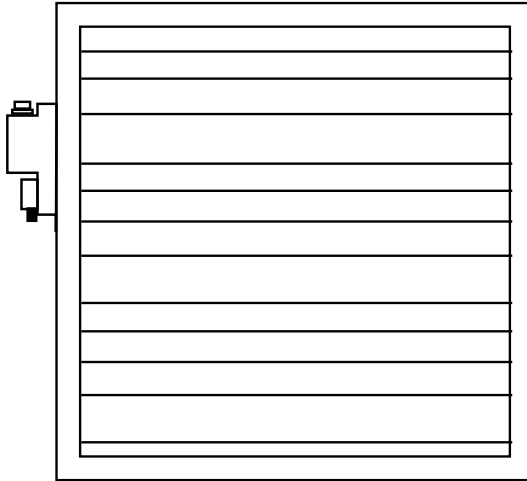


**DAMPER KASA ÖLÇÜLERİ**

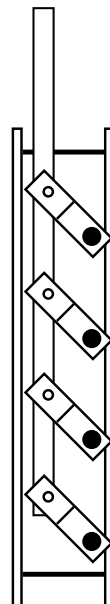
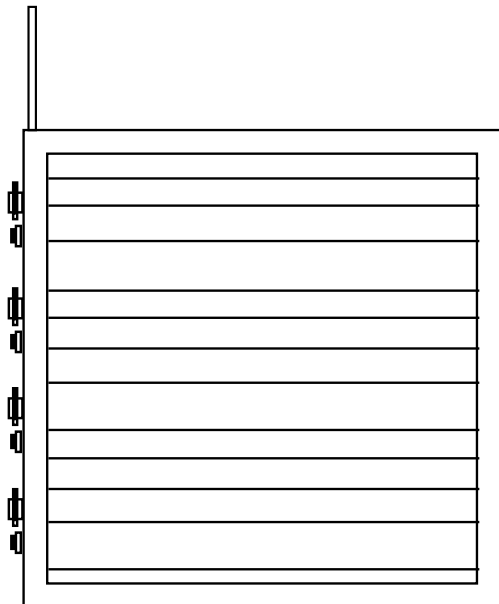
VVD-S HAVA DAMPERİ MEKANİZMA ÇEŞİTLERİ / VOLUME DAMPER MECHANISM TYPES



DİŞLİ KLAPELİ  
MEKANİZMA  
GEAR + VALVE  
MECHANISM

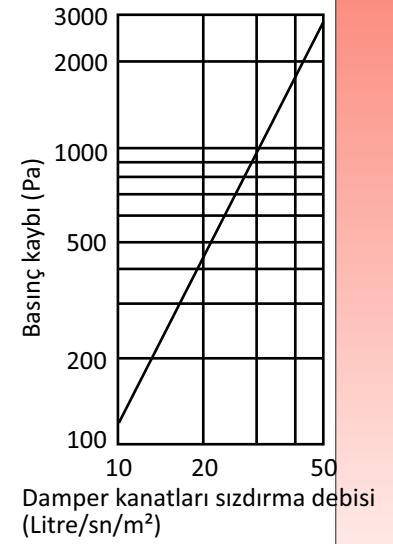
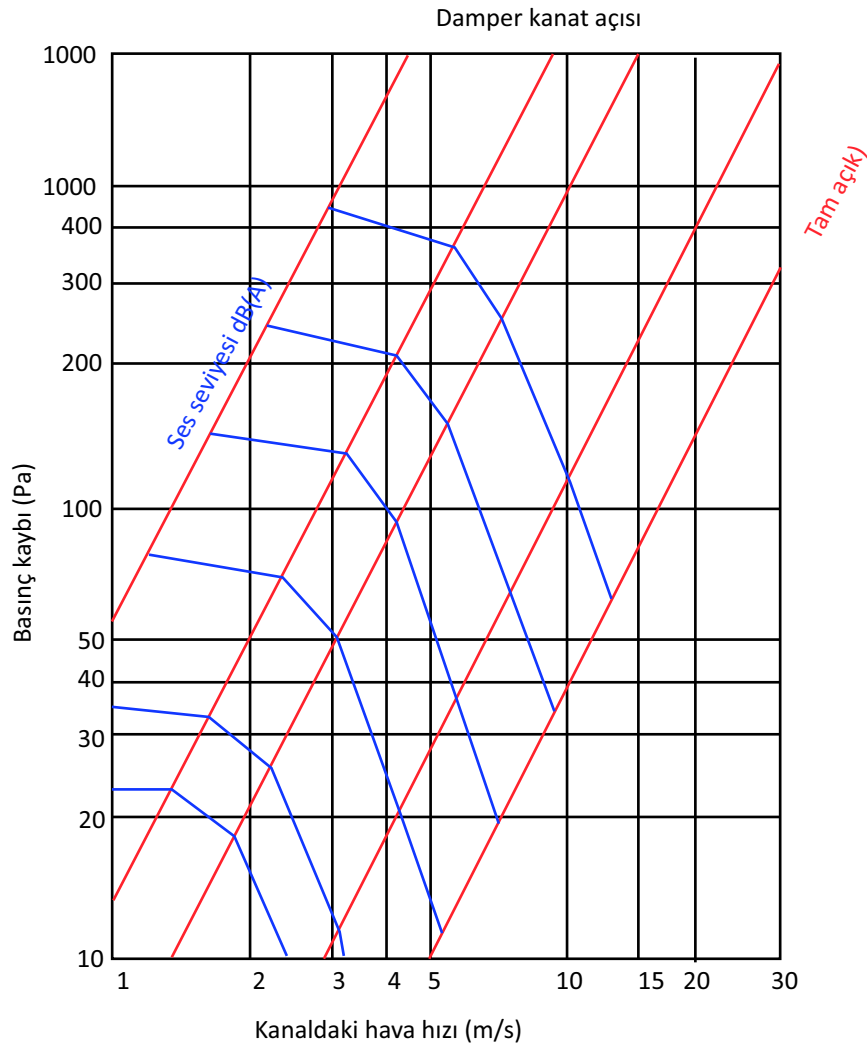


DİŞLİ  
SERVOMOTORLU  
MEKANİZMA  
GEAR +  
SERVOMOTOR  
MECHANISM

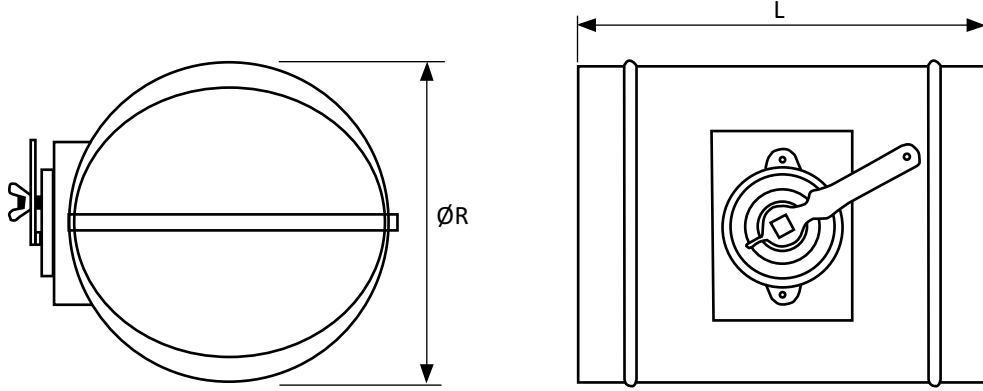


PARALEL KANAT  
BRONZ YATAKLI  
MEKANİZMA  
PARALLEL WING  
BRONZED BEARINGS  
MECHANISM

**VVD-S HAVA DAMPERİ SEÇİM DİAGRAMI / VOLUME DAMPER SELECTION DIAGRAM**

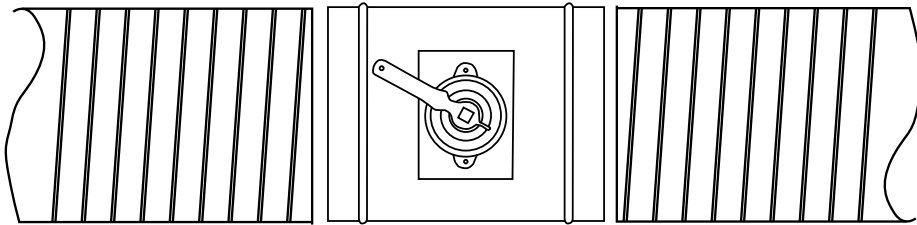


VVD-C YUVARLAK HAVA DAMPERİ / CIRCULAR VOLUME DAMPER  
STANDART ÖLÇÜLER / STANDART SIZES



ØR	100	125	160	200	250	315	400	500	630
L	300	300	300	300	300	300	400	400	400

KANALA MONTAJ / DUCT INSTALLATION



**VVD-C YUVARLAK HAVA DAMPERİ / CIRCULAR VOLUME DAMPER  
SEÇİM TABLOSU / SELECTION TABLE**

Çap (mm)	Debi (m <sup>3</sup> /h)	Hava Hızı (m/s)	$\alpha=15^\circ$		$\alpha=30^\circ$		$\alpha=45^\circ$		$\alpha=60^\circ$	
			Basınç kaybı (pa)	Ses dB(A)	Basınç Kaybı (pa)	Ses dB(A)	Basınç kaybı (pa)	Ses dB(A)	Basınç kaybı (pa)	Ses dB(A)
100	100	3,54	9	25	25	34	61	41	185	50
	150	5,31	20	35	55	44	138	51	410	60
	200	7,08	36	42	100	51	250	58	730	67
	250	8,85	57	48	153	56	390	64	1110	73
	300	10,62	83	53	220	61	566	68	1600	82
125	100	2,26	4	<20	10	24	25	30	74	38
	175	3,96	11	28	30	36	78	44	226	53
	250	5,66	23	37	61	45	160	53	470	62
	325	7,36	39	44	107	52	270	59	790	63
	400	9,06	60	49	160	57	410	64	1180	73
160	150	2,07	2	<20	9	20	21	28	63	37
	300	4,15	12	29	34	38	84	45	250	54
	450	6,22	28	39	76	48	190	55	560	64
	600	8,29	50	47	140	55	345	62	1000	72
	750	10,37	83	53	220	61	566	68	1600	82
200	250	2,21	2	<20	8	25	27	36	100	48
	450	3,98	8	30	30	42	100	54	360	66
	700	6,19	18	41	72	54	250	66	870	78
	950	8,4	34	49	130	62	460	74	1550	85
	1200	10,62	54	55	210	68	720	80		
250	400	2,26	2	<20	10	28	32	38	115	51
	650	3,68	7	28	26	40	86	52	310	64
	1000	5,66	15	38	60	52	200	63	730	76
	1350	7,64	28	47	110	60	375	72	1300	84
	1700	9,62	45	53	173	66	600	78		
315	600	2,14	2	<20	9	26	29	37	105	49
	1200	4,28	9	31	35	44	118	56	420	68
	1800	6,42	20	42	77	55	260	67	920	79
	2400	8,56	36	50	137	63	475	75	1640	86
	3000	10,7	55	56	213	69	745	81		
400	1000	2,21	2	<20	10	28	32	38	115	51
	1800	3,98	8	30	30	42	100	54	360	66
	2700	5,97	18	40	67	53	227	65	820	77
	3600	7,96	30	47	118	61	410	73	1440	87
	4500	9,95	46	54	180	67	620	80		
500	1500	2,12	2	<20	9	26	29	37	105	49
	3000	4,25	9	31	35	44	118	56	420	68
	4500	6,37	20	42	77	55	260	67	920	79
	6000	8,49	36	50	137	63	475	75	1640	86
	7500	10,62	55	56	213	69	745	81		
630	2600	2,32	2	<20	11	29	33	39	120	52
	4700	4,19	9	31	35	44	118	56	420	68
	6800	6,06	19	41	68	54	230	66	820	80
	8900	7,93	30	47	118	61	410	73	1440	87
	11000	9,81	46	54	180	67	620	80		



MENFEZ SANAYİ

VVD-S VVD-C  
HAVA DAMPERİ  
AIR VOLUME DAMPER

## SİPARİŞ KODLAMASI / ORDER FORM

MODEL	VVD-S	K	KS	400	x	200
ÜRÜN ÇEŞİDİ TYPE	C : DAİRESEL / CİRCULAR S : KARE / SQUARE					
AKSESUAR ACCESORIES	KS : SERVOMOTORSUZ / W/O SERVOMOTOR KL : SERVOMOTORLU / WITH SERVOMOTOR					
GENİŞLİK WIDE	W : (Damper boğaz ölçüsü)					
YÜKSEKLİK HEIGHT	H : (Damper boğaz ölçüsü)					



**GERİ  
DÖNÜŞSÜZ  
DAMPER  
VBD****Geri Dönüşsüz Damper**

Geri dönüşsüz damperler standart olarak galvaniz sactan imal edilir.

Havlandırma sistemlerinde emiş ve üflemede otomatik açılma veya kapanma sağlayarak tek yönlü hava akışını sağlamak için kullanılır.

Damper kasası kendinden flanşlı olduğundan kanala kolayca montaj yapılabılır.

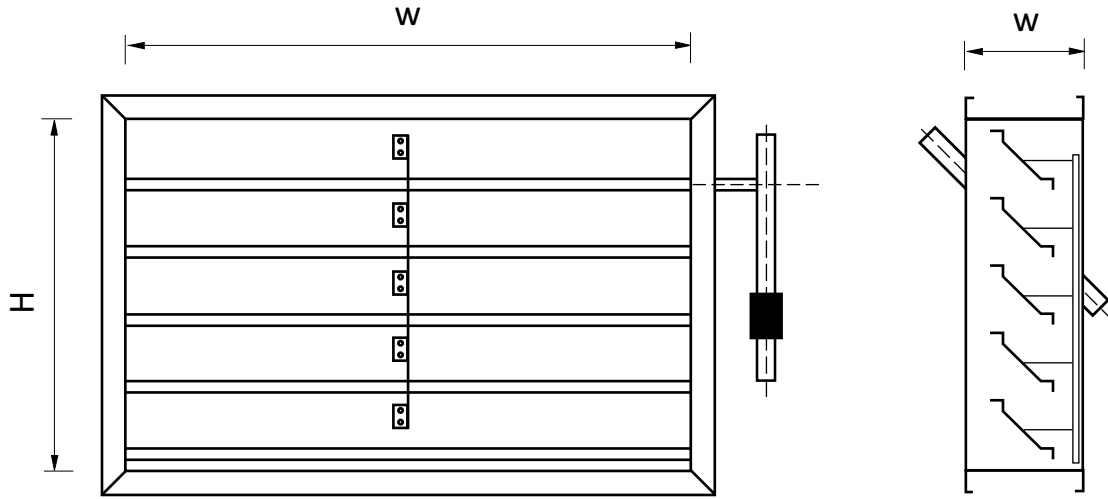
**VBD****BACKDRAFT  
DAMPER  
VBD****Backdraft Damper**

Backdraft damper blades are made of galvanized sheet metal.

It supplies one way air flow in air duct. And also supplies open operation for intake or discharge one direction by air pressure in air duct.

The damper body is shelf flanged to installation easily.

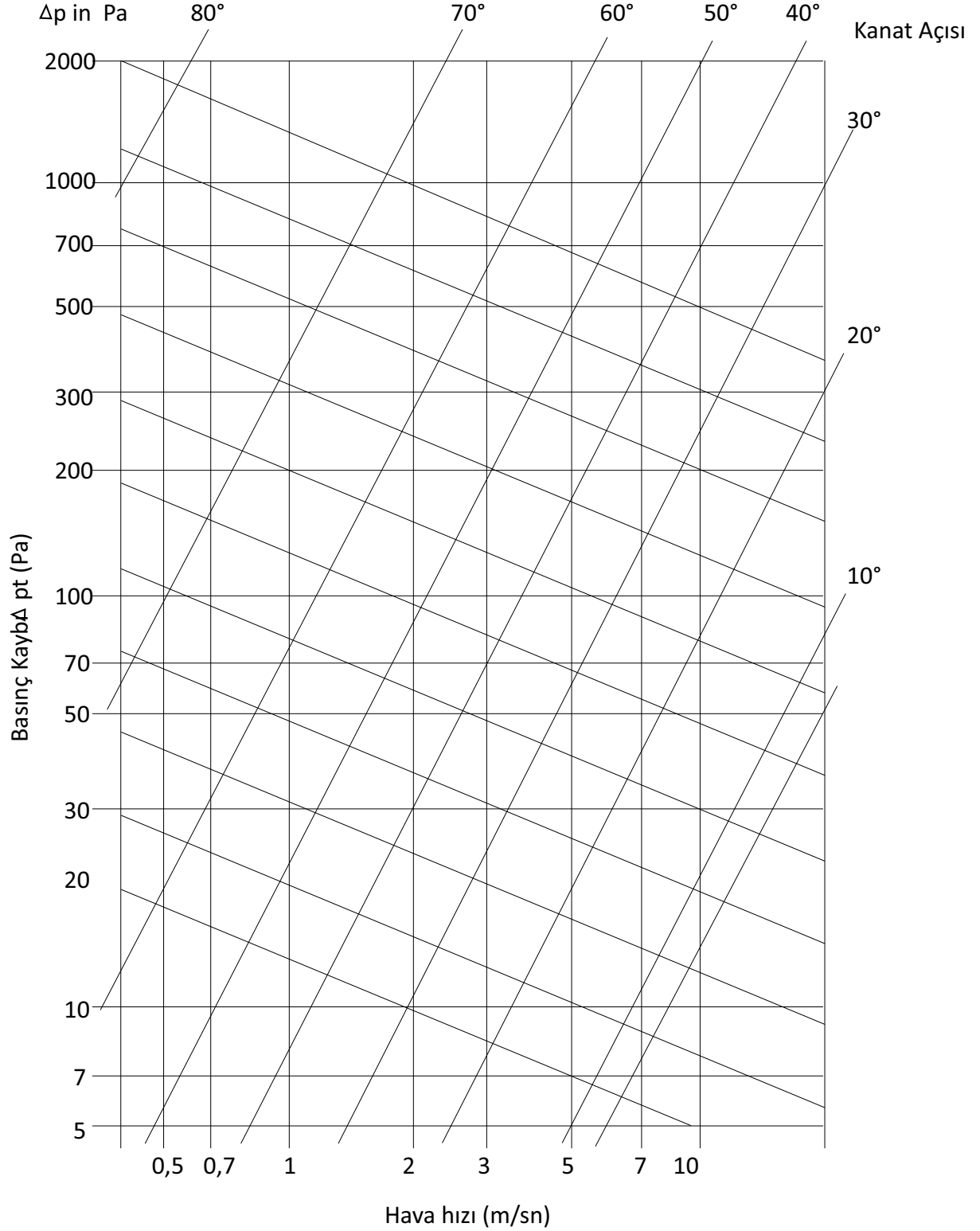
TEKNİK DETAYLAR / TECHNICAL DETAILS



W	100	200	300	400	500	600	700	800	900	1000	1200	1300	1400	1500
H	100	200	300	400	500	600	700	800	900	1000				

Hava hızı (Velocity)	0,5	1	2	3	4	5	6
Basın (Pressure)	8	17	34	49	68	84	100

SEÇİM GRAFİĞİ / SELECTION DIAGRAM



## SİPARİŞ KODLAMASI / ORDER FORM

	VBD	50	100
MODEL			
GENİŞLİK WIDE	W : (Damper boğaz ölçüsü)		
YÜKSEKLİK HEIGHT	H : (Damper boğaz ölçüsü)		