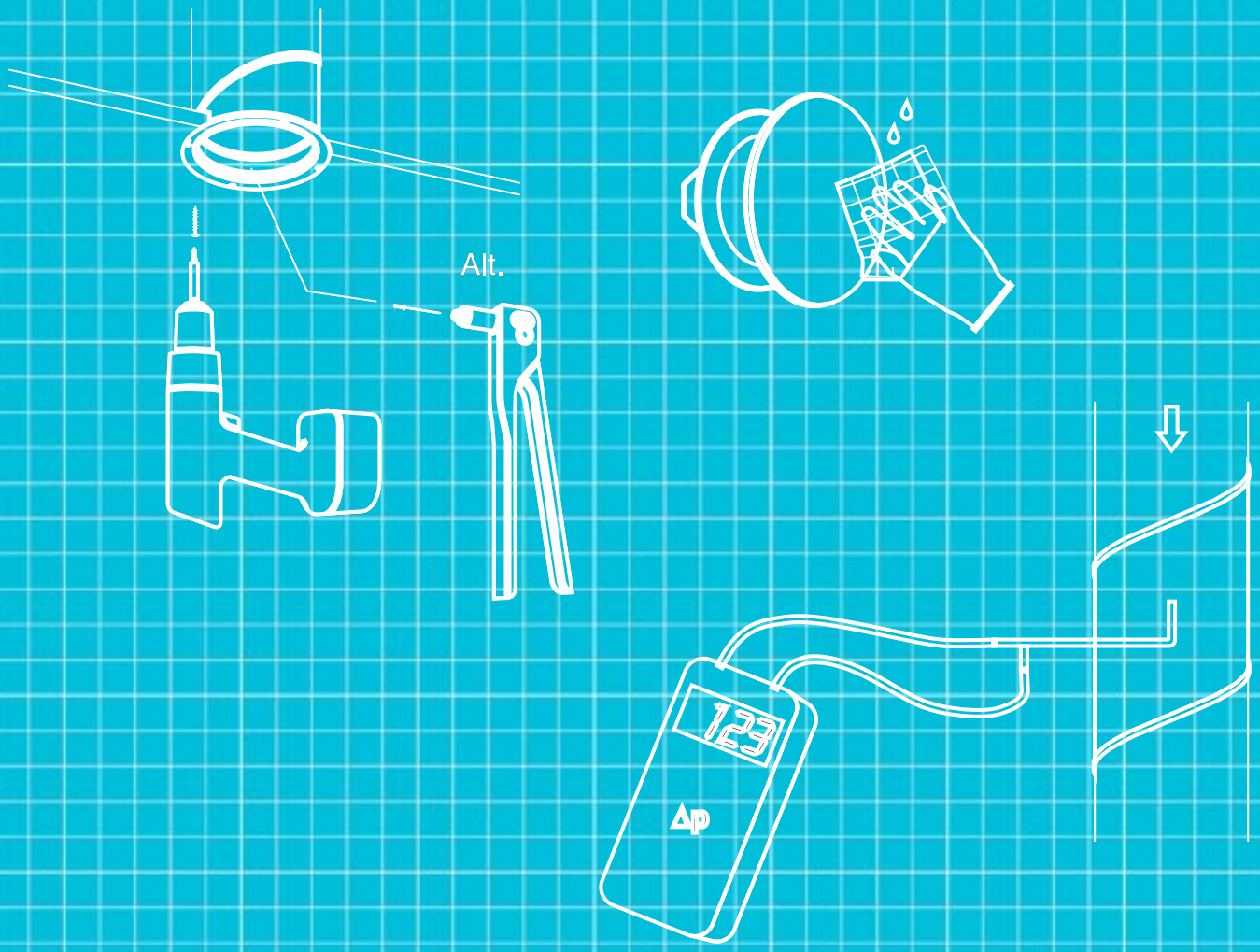


Lindab **Valves**

Mounting instructions

Lindab®

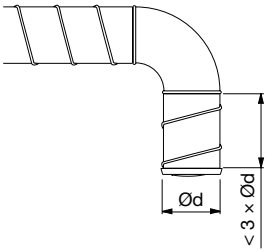
Overview diffusers, valves and cover

Unit				Connects to						
				Socket with thread for units with bayonet holder			Socket with groove for units with spring holder		Cover socket with groove for units with wire spring holder	Smooth socket for units with plate spring holder	Duct/ Fitting
Supply air	**VVTK**	Dif-fuser					**VRFU** 	**VRFM** 	**VRR**		
	VTTB	Dif-fuser					**VRFU** 	**VRFM** 	**VRR**		
	SHH	Dif-fuser									Duct
	KPT	Valve								**IL** 	Duct/ Fittings
	KI	Valve		**VRGU** 	**VRGL** 	**VRGM** 					
	KIR	Valve		**VRGU** 	**VRGL** 	**VRGM** 					
Supply and exhaust air	**TAV**	Valve									Duct

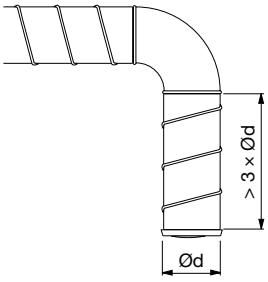
Unit				Connects to								
				Socket with thread for units with bayonet holder			Socket with groove for units with spring holder		Cover socket with groove for units with wire spring holder	Smooth socket for units with plate spring holder	Duct/ Fitting
Exhaust air	**KVB**	Valve					**VRFU** 	**VRFM** 	**VRR**		
	KDPF	Valve		**VRGU** 	**VRGL** 	**VRGM** 	**VRFU** 	**VRFM** 	**VRR**		
	KVG Ø 100–160	Valve					**VRFU** 	**VRFM** 	**VRR**		
	KVG Ø 200	Valve		**VRGU** 	**VRGL** 	**VRGM** 					
	KU	Valve		**VRGU** 	**VRGL** 	**VRGM** 					
	KSU	Valve		**VRGU** 	**VRGL** 	**VRGM** 					
	KPF	Valve								**IL** 	Duct/ Fitting
No air	**TLO**	Cover					**VRFU** 	**VRFM** 	**VRR**		

When to use the different k-factor types

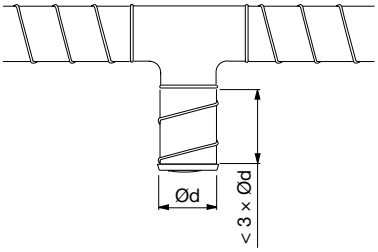
k-factor type: B (Bend 90°)



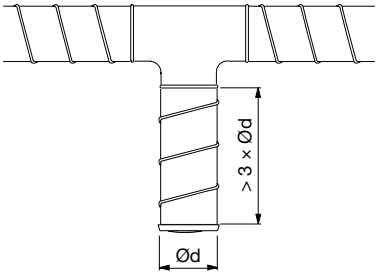
k-factor type: D (Duct)



k-factor type: T (T-piece)



k-factor type: D (Duct)



Explanations

Measurement of air flow

$$q = k \cdot \sqrt{\Delta p_m} \qquad \Delta p_m = \left(\frac{q}{k}\right)^2$$

where

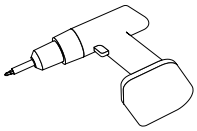
q	is	air flow	[l/s]
Δp_m	is	measuring pressure difference	[Pa]
k	is	correction factor, see table	[–]

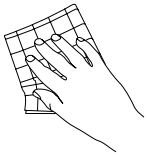
Tables

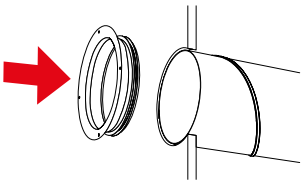
a	is	setting of valve disc or cone	[mm]
n	is	setting of valve disc or cone	[number of opening turns]
D	is	valve mounted in a duct	
B	is	valve mounted in a bend 90°	
T	is	valve mounted in a T-piece	
WOSP	is	without sector plate	
WSP	is	with sector plate	
👍	is	recommended method	
👎	is	not recommended method	

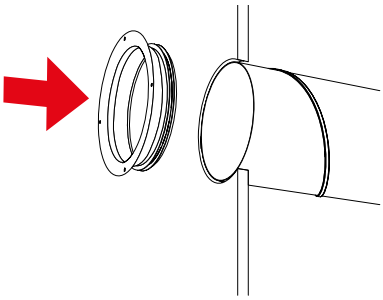
Diffuser

VVTK

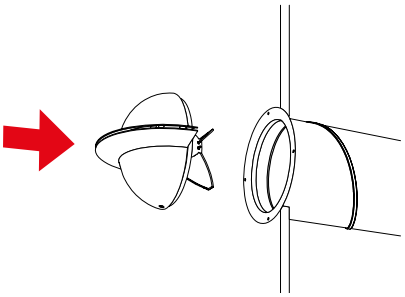


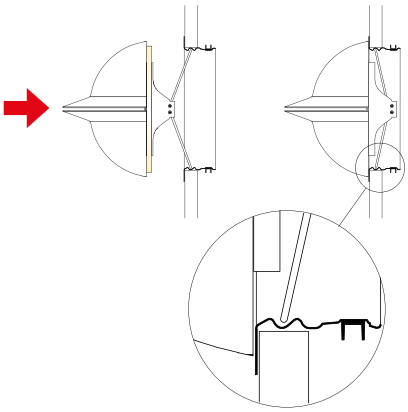




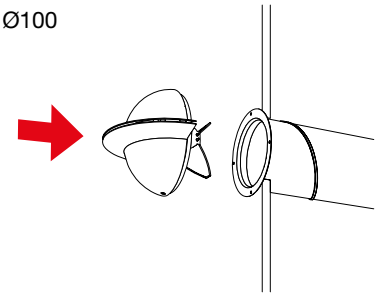


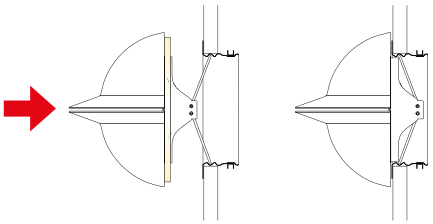
Ø125
Alt 1



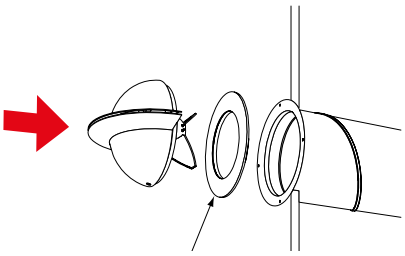


Ø100

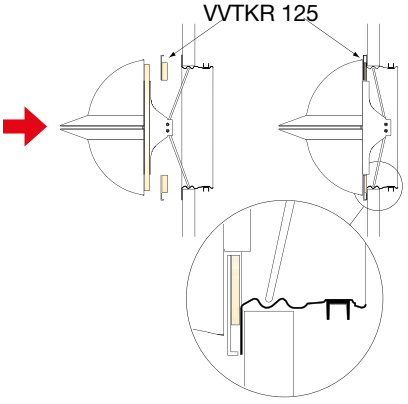




Ø125
Alt 2

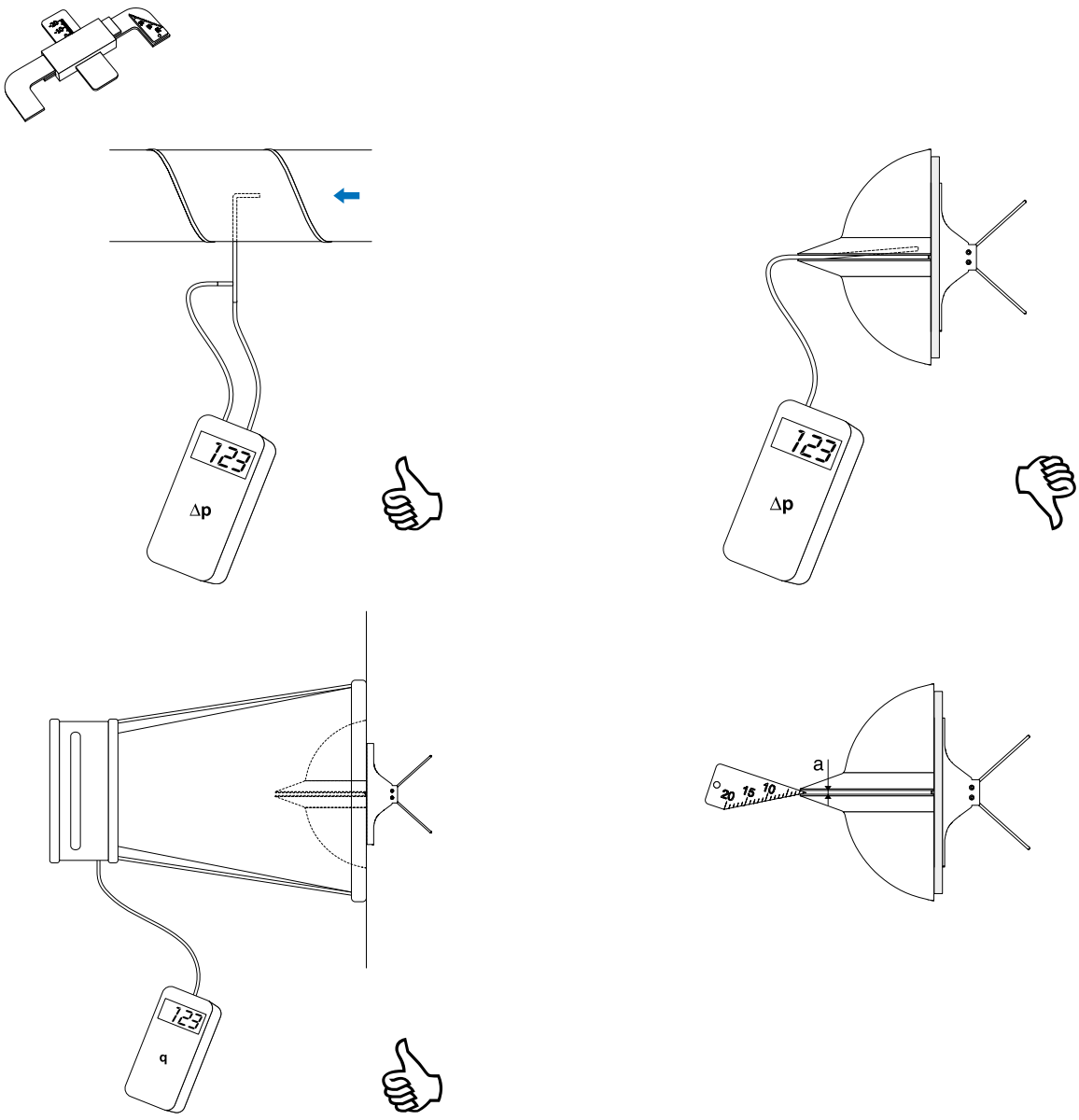


VVTKR 125



Diffuser

VVTK

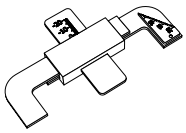


K-factors apply only to products produced after Oct 1, 2025.

Ø mm	Valve mounted in	Setting a [mm]				
100	Duct	**a**	**5**	**7**	**9**	**12**
		k	2,30	3,00	3,80	4,60
125	Duct	**a**	**5**	**7**	**9**	**12**
		k	2,30	3,00	3,80	4,60

Diffuser

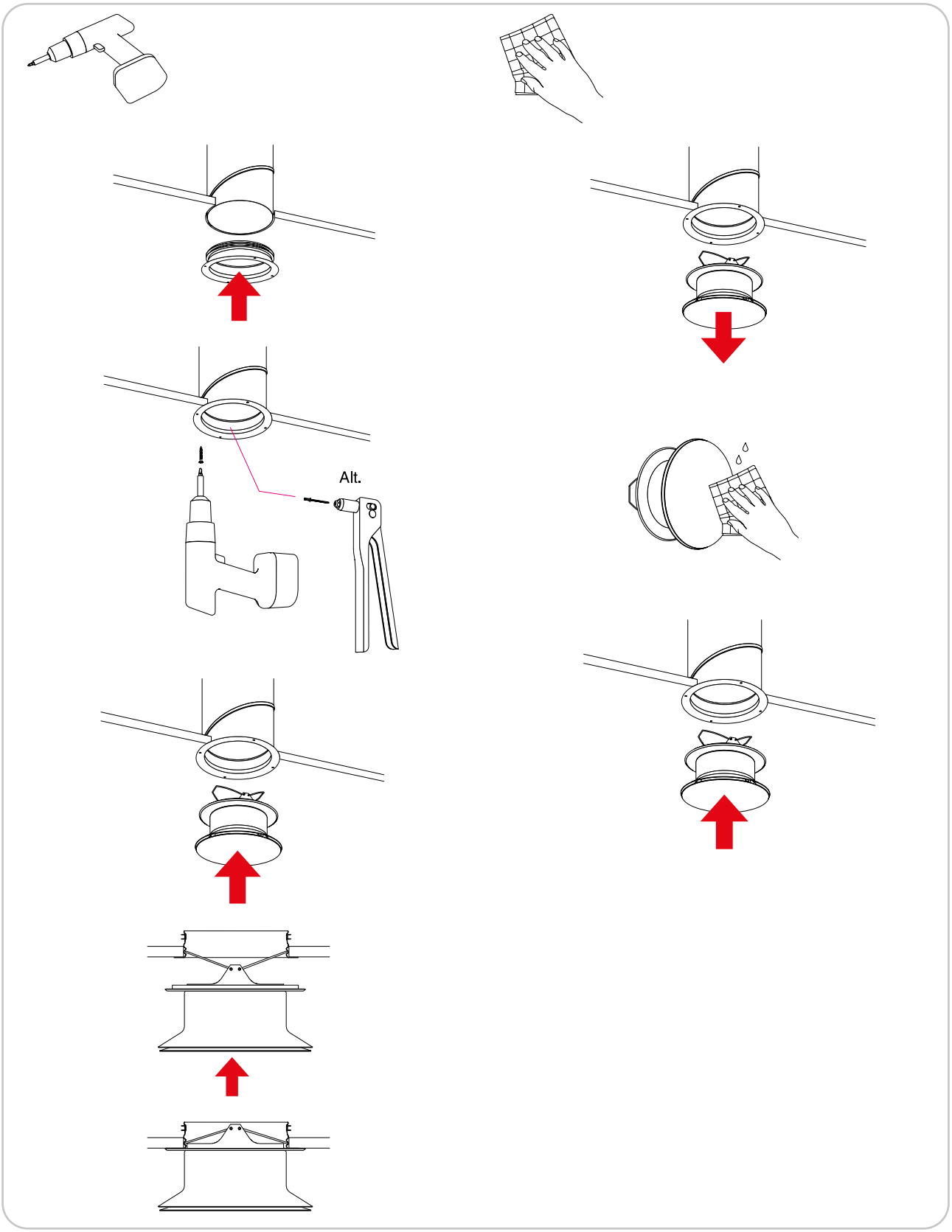
VVTK



Ø mm	Valve mounted in	Setting a [mm]						
100	Duct	**a**	**6**	**8**	**10**	**12**		
		k	1,14	1,44	1,85	2,48		
125	Duct	**a**	**6**	**7**	**8**	**10**	**12**	**16**
		k	1,25	1,51	1,87	2,16	2,73	3,61

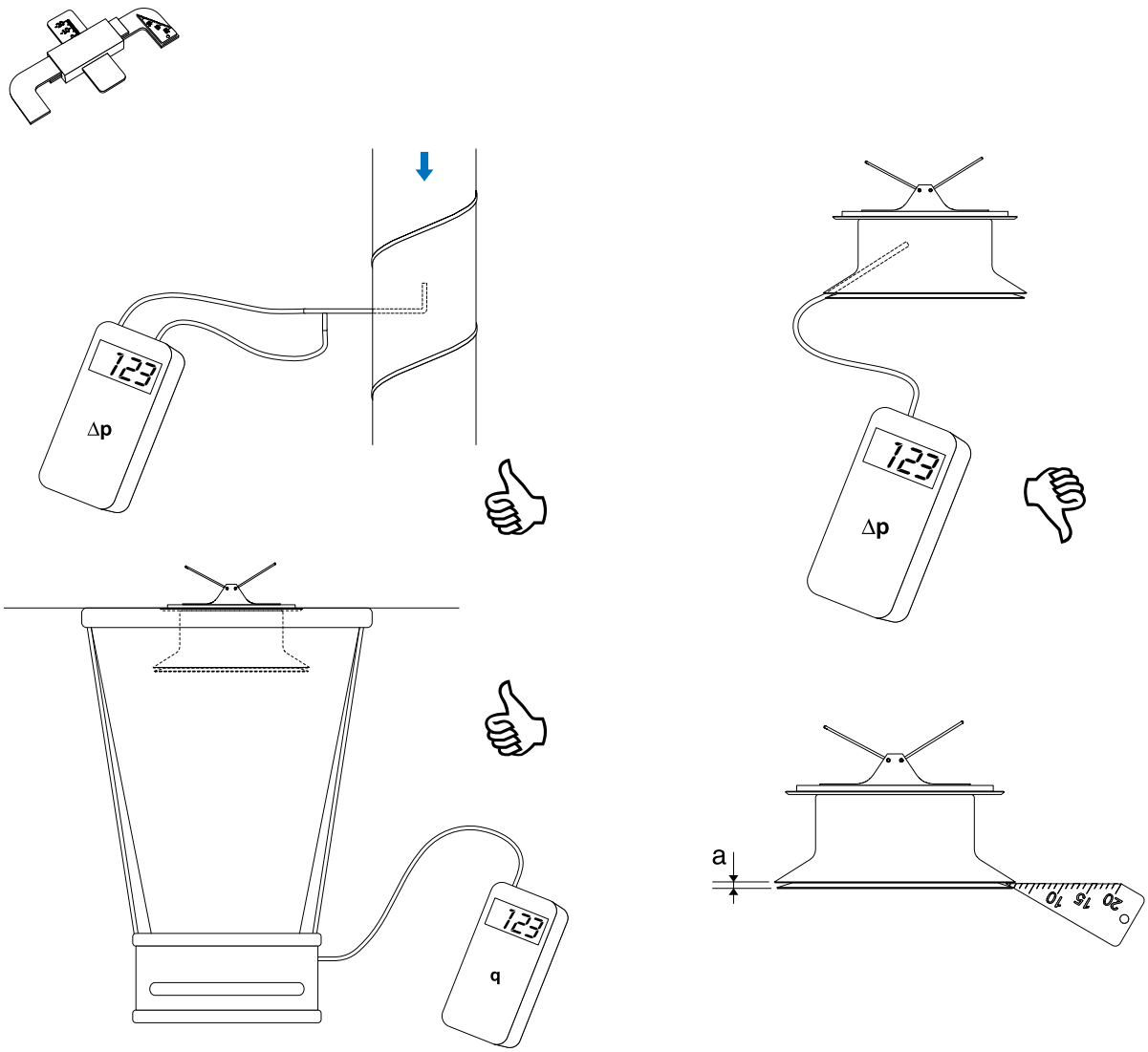
Diffuser

VTTB



Diffuser

VTTB

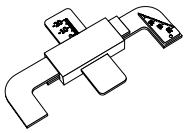


K-factors apply only to products produced after Oct 1, 2025.

Ø mm	Valve mounted in	Setting a [mm]						
100	Duct	**a**	**2**	**4**	**6**	**9**	**12**	**Fully open**
		k	0,80	1,60	2,30	3,30	4,40	5,20
125	Duct	**a**	**4**	**5**	**7**	**9**	**12**	**Fully open**
		k	2,00	2,40	3,30	4,00	5,00	5,40
160	Duct	**a**	**4**	**6**	**9**	**12**	**Fully open**	
		k	2,20	3,20	4,60	5,90	7,20	

Diffuser

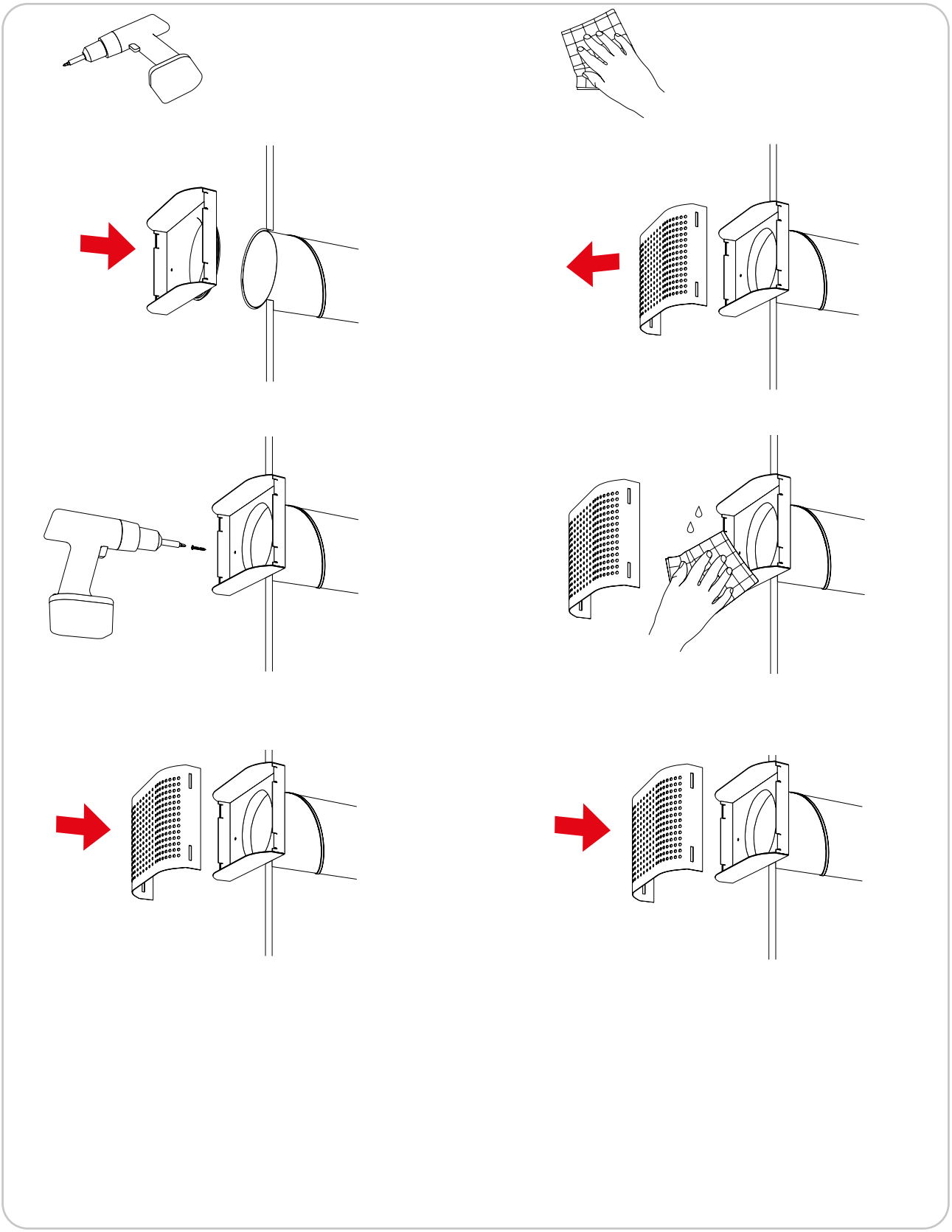
VTTB



Ø mm	Valve mounted in	Setting a [mm]							
		a	**4**	**5**	**6**	**7**	**8**	**10**	**12**	**16**
100	Duct	k	1,29	1,43	1,82	2,01	2,34	2,98	3,46	4,34
		a	**4**	**5**	**6**	**7**	**8**	**10**	**12**	**16**
125	Duct	k	1,54	1,98	2,28	2,71	3,20	3,90	4,52	5,85
		a	**5**	**6**	**7**	**8**	**10**	**12**	**16**	**20**
160	Duct	k	2,60	3,23	3,71	3,94	5,03	5,83	7,33	8,40

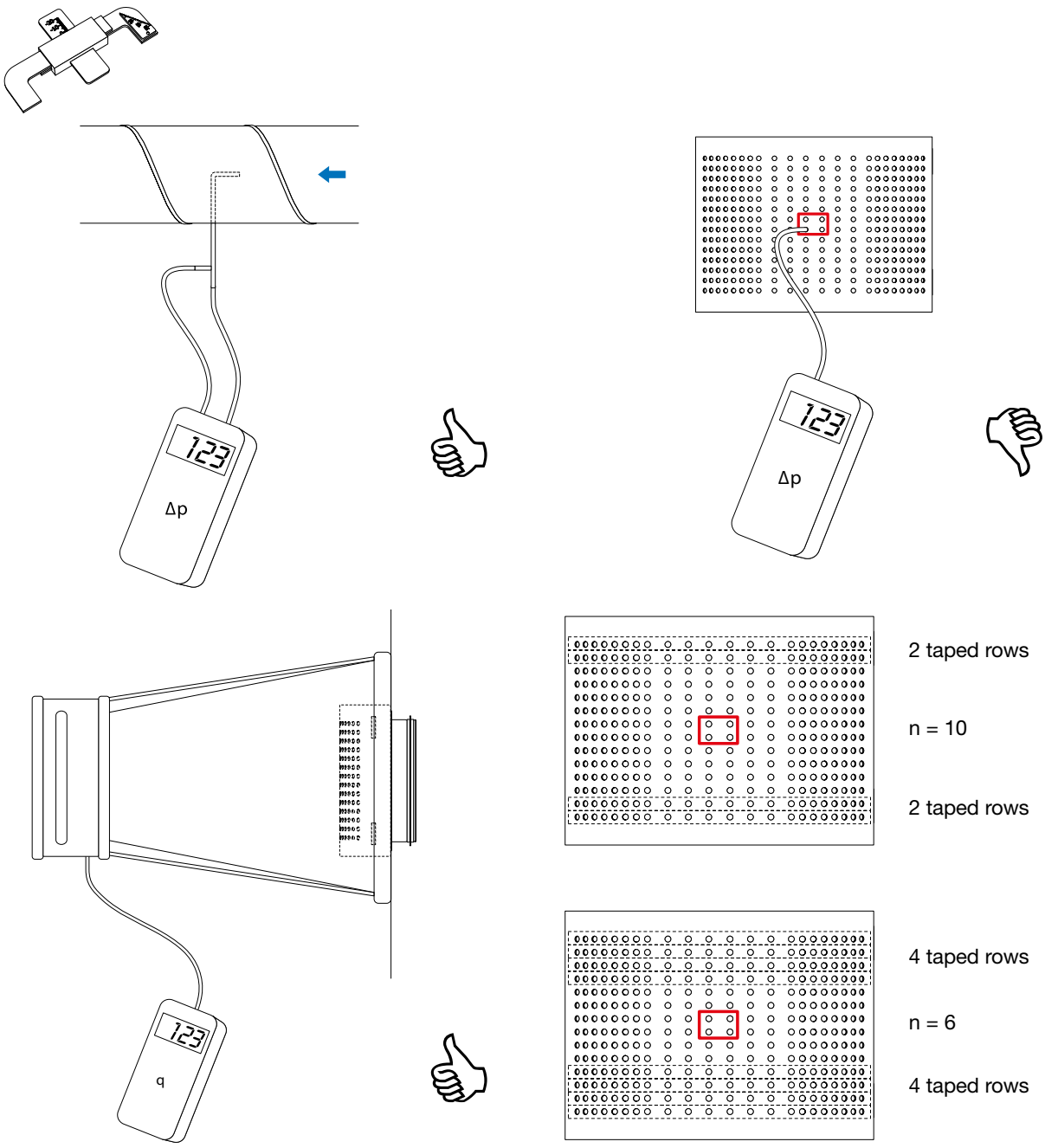
Diffuser

SHH



Diffuser

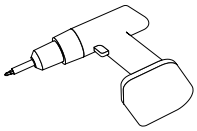
SHH

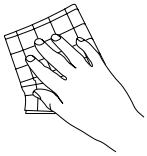


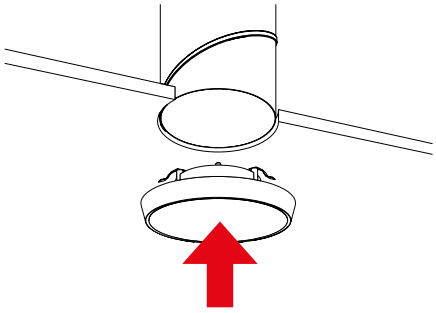
Ø mm	Diffuser mounted in	Setting n [number of open rows]							
100	Duct	**n**	**2**	**4**	**6**	**8**	**10**	**12**	**14**
		k	0,7	1,2	1,7	2,3	2,7	3,1	3,6
125	Duct	**n**	**2**	**4**	**6**	**8**	**10**	**12**	**14**
		k	0,7	1,2	1,8	2,3	2,8	3,3	3,9

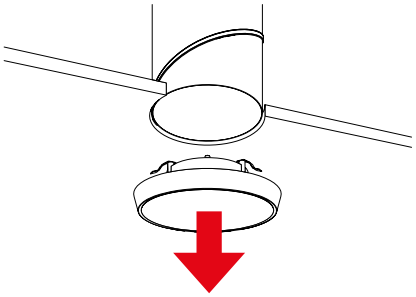
Valve

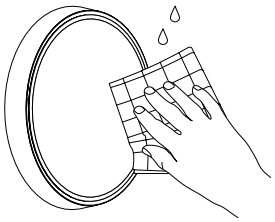
KPT

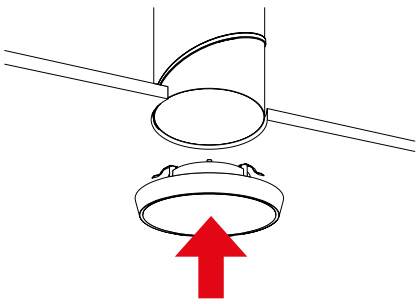








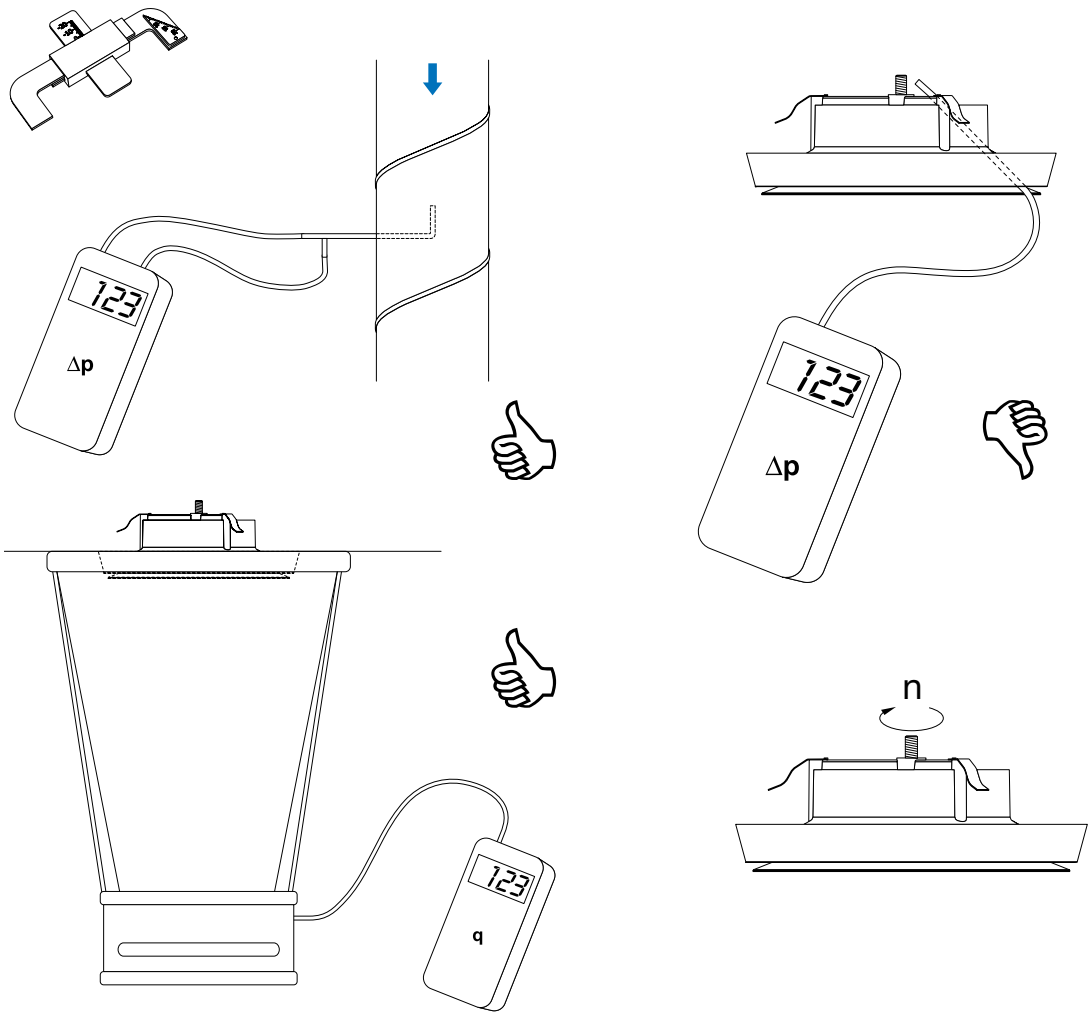




2026.03.27

Valve

KPT

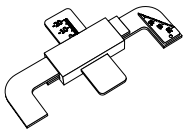


K-factors apply only to products produced after Oct 1, 2025.

Ø mm	Valve mounted in	Setting n [number of opening turns]						
100	Duct	**n**	**2**	**3**	**4**	**6**	**8**	**10**
		k	1,12	1,69	2,20	3,36	4,21	4,86
125	Duct	**n**	**4**	**5**	**6**	**7**	**8**	**9**
		k	1,23	1,50	1,79	2,09	2,30	2,66
160	Duct	**n**	**4**	**6**	**9**	**12**	**15**	**20**
		k	1,60	2,20	3,00	3,90	5,00	7,30
200	Duct	**n**	**7**	**9**	**11**	**13**	**15**	
		k	4,55	5,47	6,35	7,39	8,37	

Valve

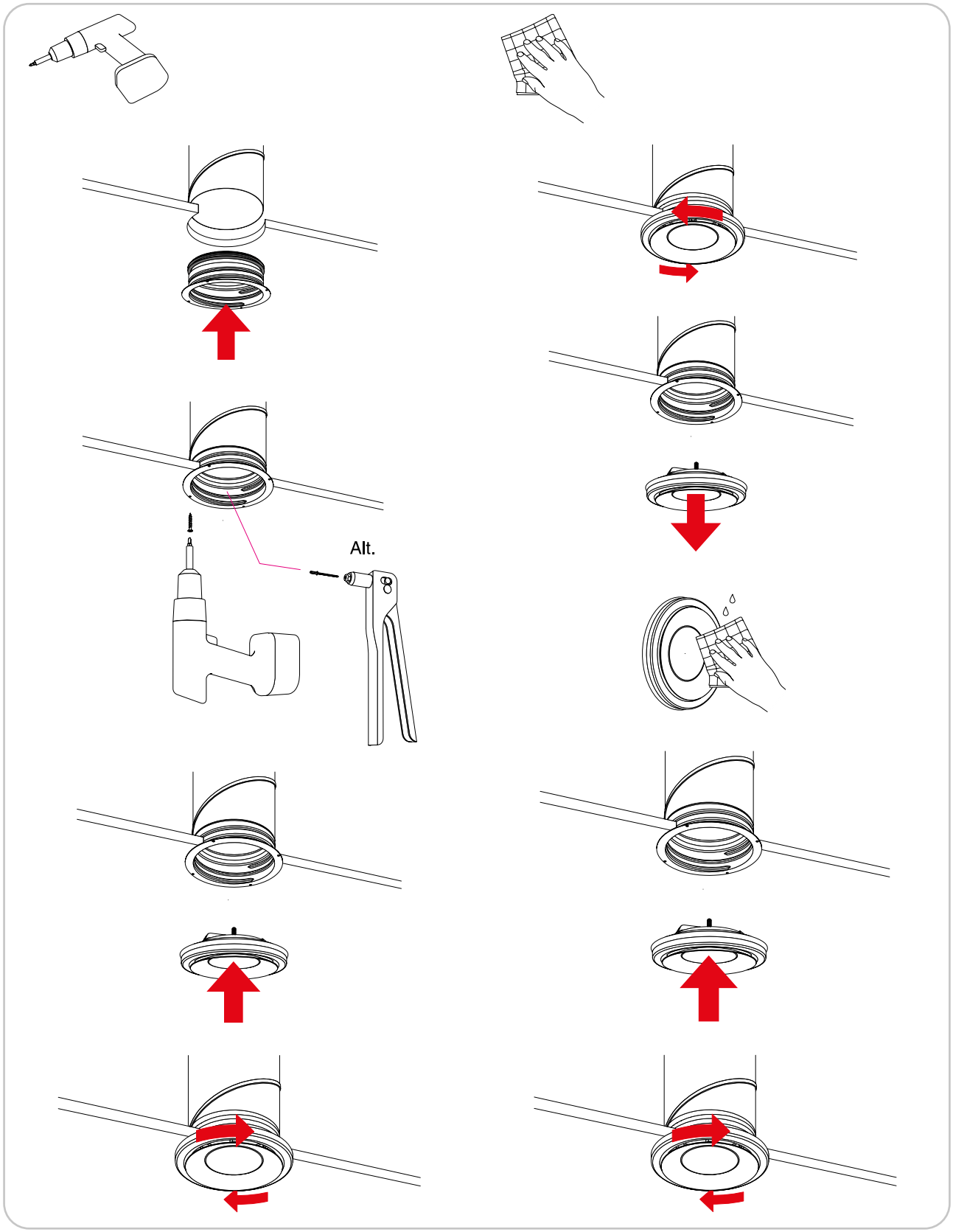
KPT



Ø mm	Valve mounted in	Setting n [number of opening turns]						
80	Duct	**n**	**1**	**2**	**3**	**4**	**6**	**8**
		k	1,08	1,42	1,83	2,30	2,92	3,77
100	Duct	**n**	**2**	**3**	**4**	**6**	**8**	**10**
		k	1,12	1,69	2,20	3,36	4,21	4,86
125	Duct	**n**	**4**	**5**	**6**	**7**	**8**	**9**
		k	1,23	1,50	1,79	2,09	2,30	2,66
160	Duct	**n**	**6**	**8**	**10**	**12**		
		k	2,34	3,06	3,73	4,35		
200	Duct	**n**	**7**	**9**	**11**	**13**	**15**	
		k	4,55	5,47	6,35	7,39	8,37	

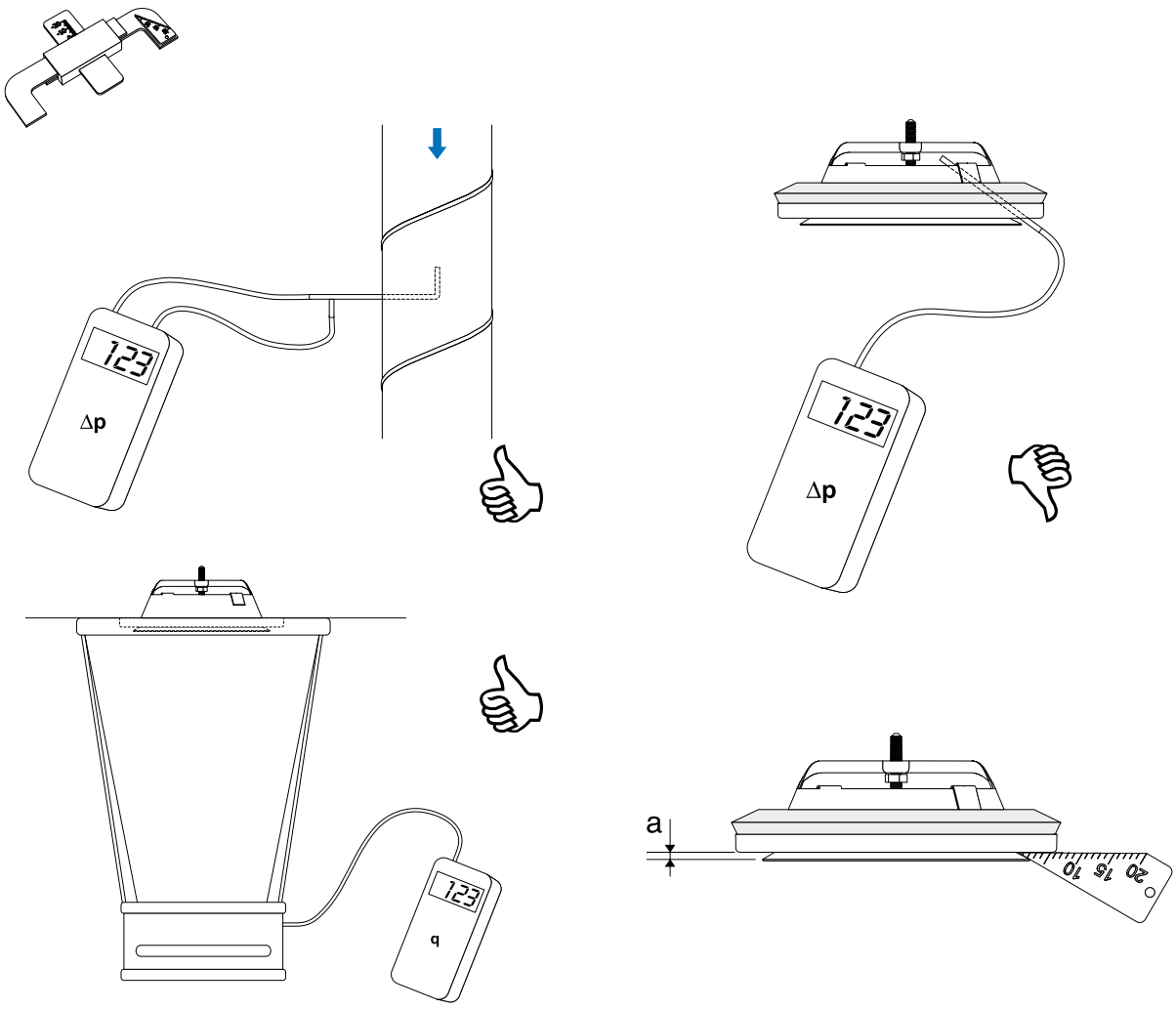
Valve

KI



Valve

KI

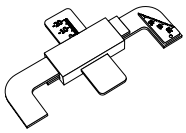


K-factors apply only to products produced after Oct 1, 2025.

Ø mm	Valve mounted in	Setting a [mm]						
80	Duct	**a**	**2**	**4**	**6**	**9**		
		k	0,76	1,51	2,52	4,22		
100	Duct	**a**	**2**	**4**	**6**	**9**	**12**	
		k	0,80	1,65	2,50	4,10	5,30	
125	Duct	**a**	**2**	**5**	**7**	**9**	**12**	**15**
		k	1,35	2,68	3,75	4,80	6,65	9,30
150	Duct	**a**	**6**	**9**	**12**	**15**	**20**	
		k	3,97	5,73	7,83	10,4	12,5	
160	Duct	**a**	**4**	**6**	**9**	**12**	**15**	**20**
		k	2,70	4,10	6,20	8,20	9,90	14,2
200	Duct	**a**	**5**	**7**	**9**	**12**	**15**	**20**
		k	4,10	5,80	7,40	9,50	12,4	15,9

Valve

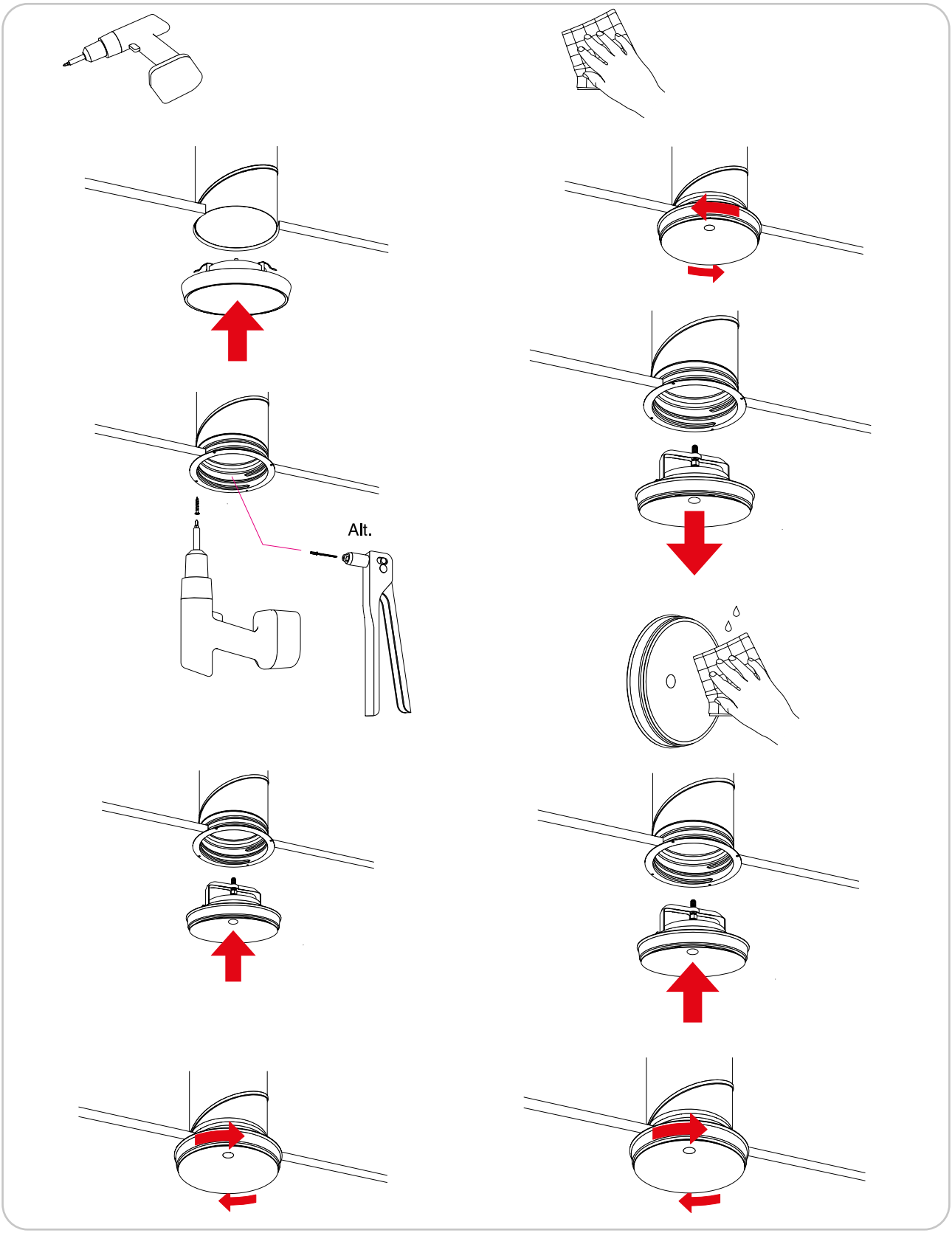
KI



Ø mm	Valve mounted in	Setting a [mm]						
80	Duct	**a**	**2**	**4**	**6**	**9**	**12**	
		k	0,779	1,36	2,05	2,65	2,80	
100	Duct	**a**	**2**	**4**	**6**	**9**	**12**	
		k	1,00	1,10	2,31	3,19	4,12	
125	Duct	**a**	**3**	**5**	**7**	**9**	**12**	**15**
		k	1,23	1,85	2,83	3,74	5,08	6,21
150	Duct	**a**	**4**	**6**	**9**	**12**	**15**	**20**
		k	2,35	3,37	4,50	5,74	7,40	10,3
160	Duct	**a**	**4**	**6**	**9**	**12**	**15**	**20**
		k	1,66	3,10	4,31	6,04	7,34	10,3
200	Duct	**a**	**5**	**6**	**9**	**12**	**15**	**20**
		k	3,66	5,17	7,05	8,00	10,4	12,9

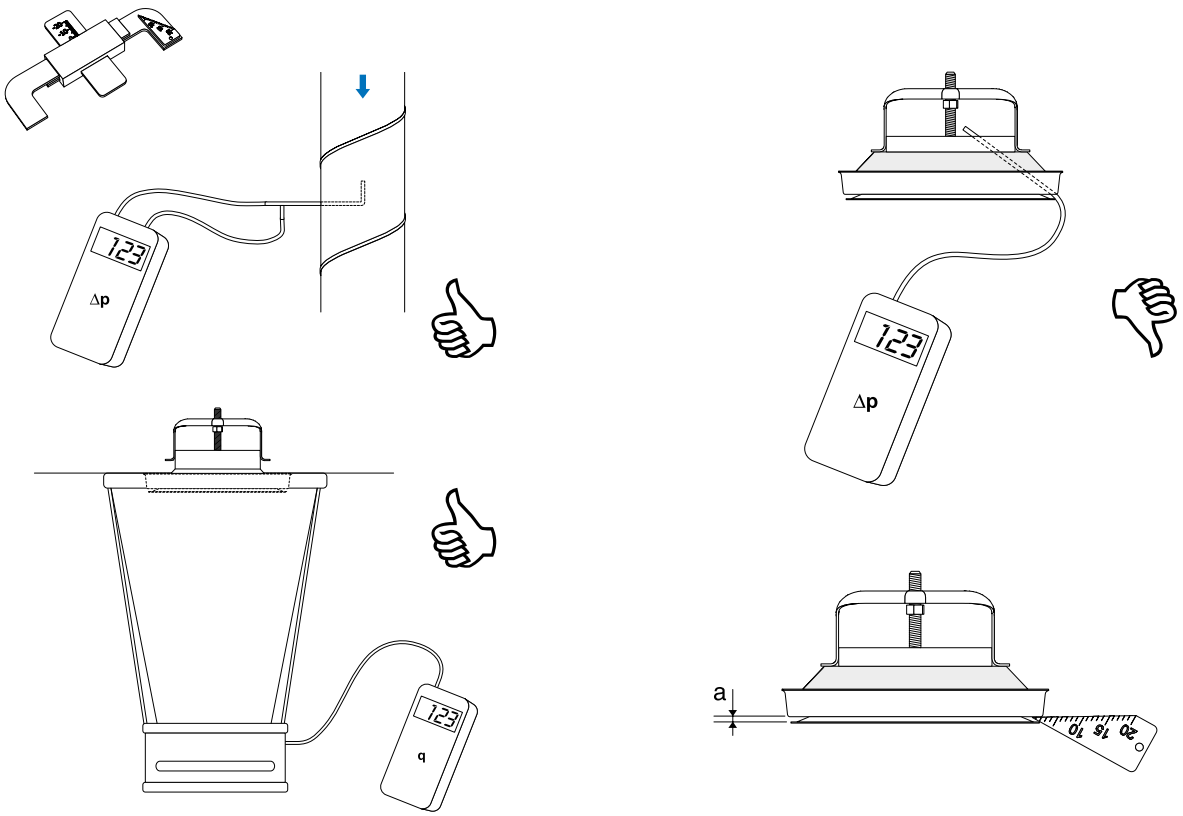
Valve

KIR



Valve

KIR



K-factors apply only to products produced after Oct 1, 2025.

Without sector plate

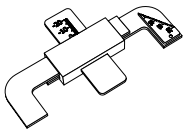
Ø mm	Valve mounted in	Setting a [mm]						
100	Duct	**a**	**2**	**4**	**6**	**9**	**12**	**15**
		k	0,95	1,45	1,85	2,30	2,70	3,80
125	Duct	**a**	**4**	**6**	**9**	**12**	**15**	
		k	2,05	2,68	3,20	3,70	4,80	
160	Duct	**a**	**4**	**6**	**9**	**15**	**20**	
		k	2,70	3,90	4,75	6,40	7,70	

With sector plate

Ø mm	Valve mounted in	Setting a [mm]						
100	Duct	**a**	**2**	**4**	**6**	**9**	**12**	**15**
		k	0,85	1,72	2,35	3,40	4,50	4,70
125	Duct	**a**	**4**	**6**	**9**	**12**	**15**	
		k	2,30	3,25	4,55	5,80	6,80	
160	Duct	**a**	**4**	**6**	**9**	**15**	**20**	
		k	3,05	4,30	6,00	10,4	12,6	

Valve

KIR



Without sector plate

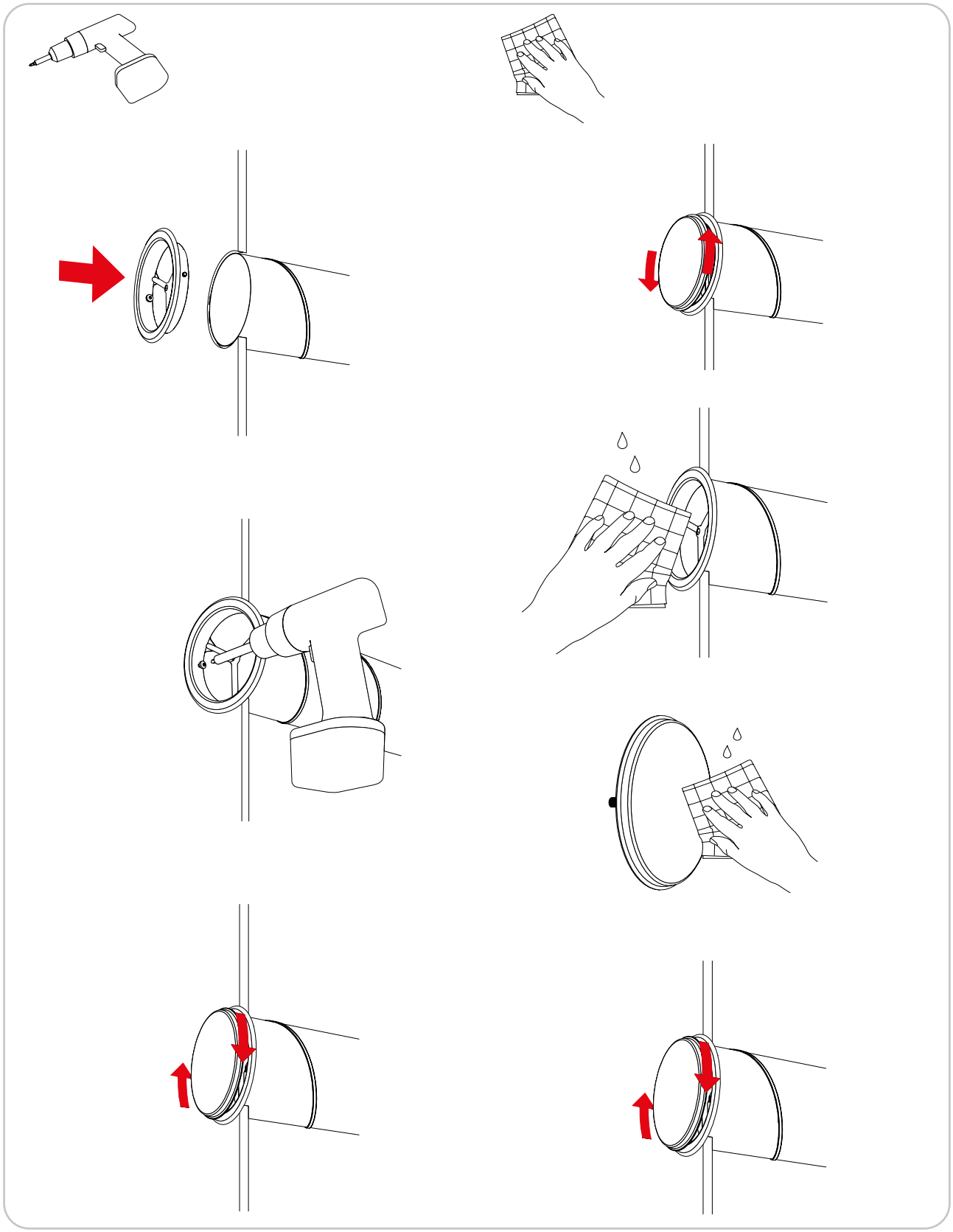
Ø mm	Valve mounted in	Setting a [mm]					
100	Duct	**a**	**2**	**4**	**6**	**9**	**12**
		k	1,09	1,56	2,11	2,81	4,31
125	Duct	**a**	**4**	**6**	**9**	**12**	**15**
		k	1,95	2,99	4,41	5,72	7,41
160	Duct	**a**	**4**	**6**	**10**	**15**	**20**
		k	2,10	3,74	5,83	9,66	12,8

With sector plate

Ø mm	Valve mounted in	Setting a [mm]					
100	Duct	**a**	**2**	**4**	**6**	**9**	**12**
		k	0,882	1,45	1,75	2,49	2,89
125	Duct	**a**	**4**	**6**	**9**	**12**	**15**
		k	1,97	2,65	3,40	4,23	4,77
160	Duct	**a**	**4**	**6**	**10**	**15**	**20**
		k	1,69	2,73	4,39	5,91	7,35

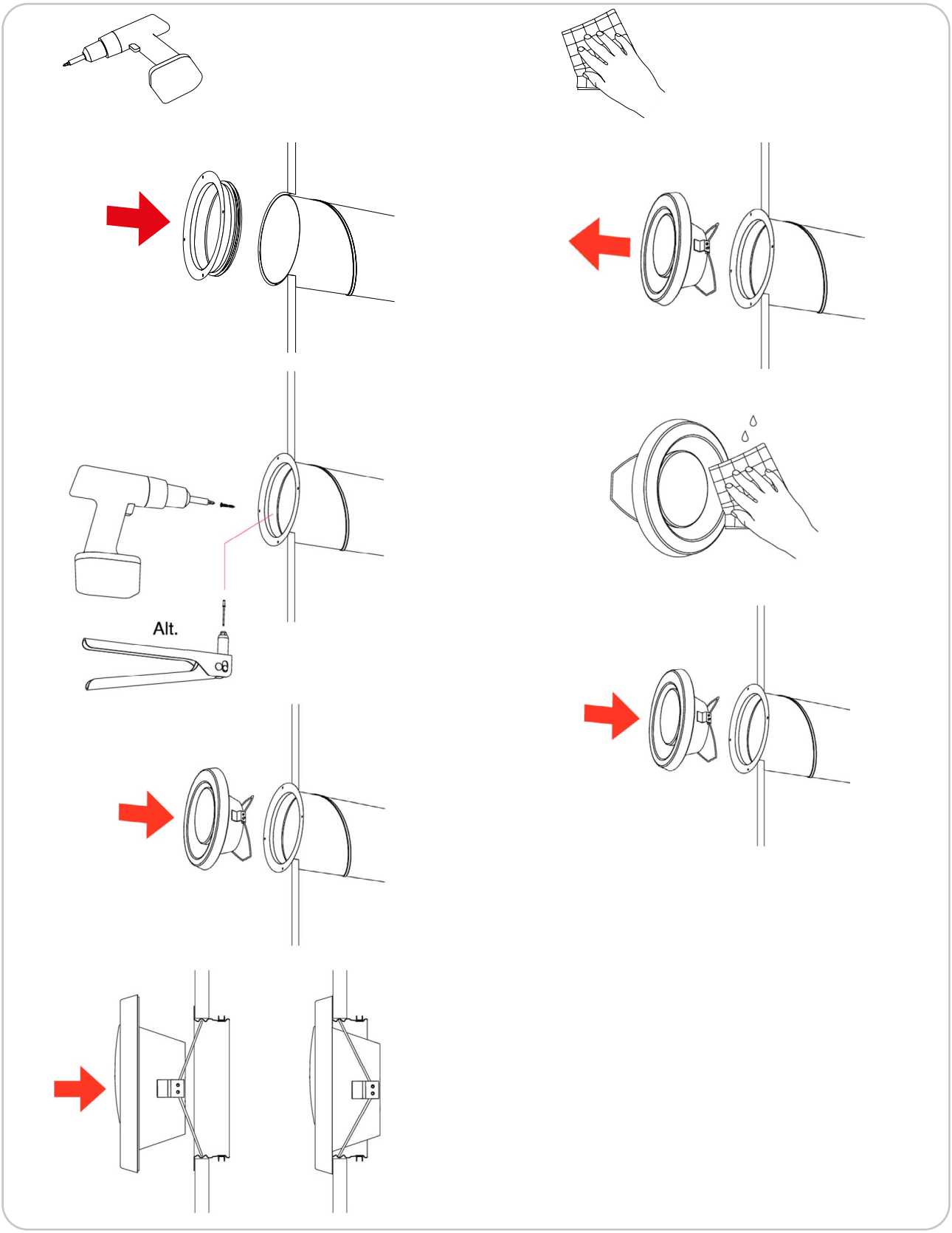
Valve

TAV



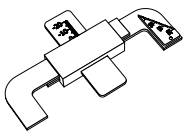
Valve

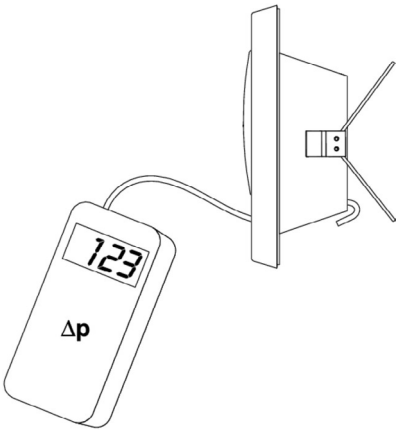
KVB

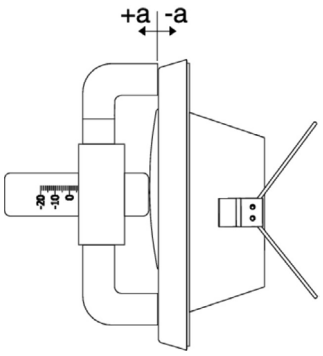


Valve

KVB





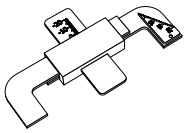


K-factors apply only to products produced after Oct 1, 2025.

ø mm	Valve mounted in	Setting a [mm]								
100	Duct	**a**	**-11**	**-9**	**-6**	**-3**	**0**	**3**	**6**	**10**
		k	0,40	0,55	0,80	1,10	1,40	1,70	2,00	2,30
125	Duct	**a**	**-20**	**-16**	**-12**	**-8**	**-4**	**0**	**4**	**8**
		k	1,10	1,40	2,00	2,30	2,80	3,20	3,60	4,00
160	Duct	**a**	**-23**	**-20**	**-15**	**-10**	**-5**	**0**	**5**	**10**	**15**
		k	1,70	1,90	3,00	4,20	5,50	6,70	7,90	8,90	10,5

Valve

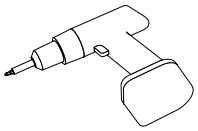
KVB

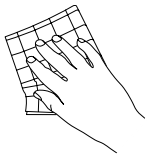


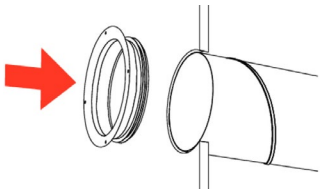
Ø mm	Valve mounted in	Setting a [mm]						
100	Duct Bend 90° T-piece	**a**	**-11**	**-9**	**-6**	**0**	**6**	**9**
		k	0,389 0,382 0,393	0,547 0,540 0,551	0,818 0,830 0,851	1,37 1,41 1,45	1,87 1,98 1,98	2,08 2,20 2,18
125	Duct Bend 90° T-piece	**a**	**-18**	**-12**	**-6**	**0**	**6**	
		k	1,32 1,26 1,40	1,88 1,80 1,81	2,47 2,46 2,63	3,01 2,90 3,11	3,46 3,46 3,72	
160	Duct Bend 90° T-piece	**a**	**-24**	**-18**	**-12**	**-6**	**0**	**6**
		k	2,05 1,76 –	2,50 2,33 2,80	3,31 3,15 3,29	4,23 3,93 4,04	5,11 4, 72 4,88	5,73 5,29 5,41

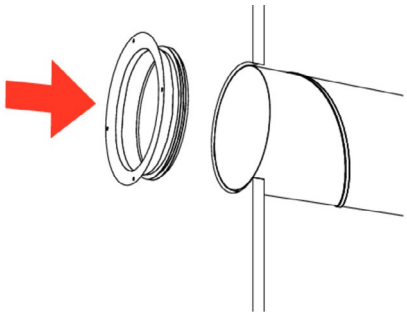
Valve

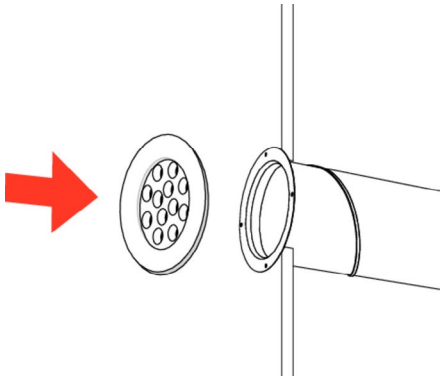
KDPF





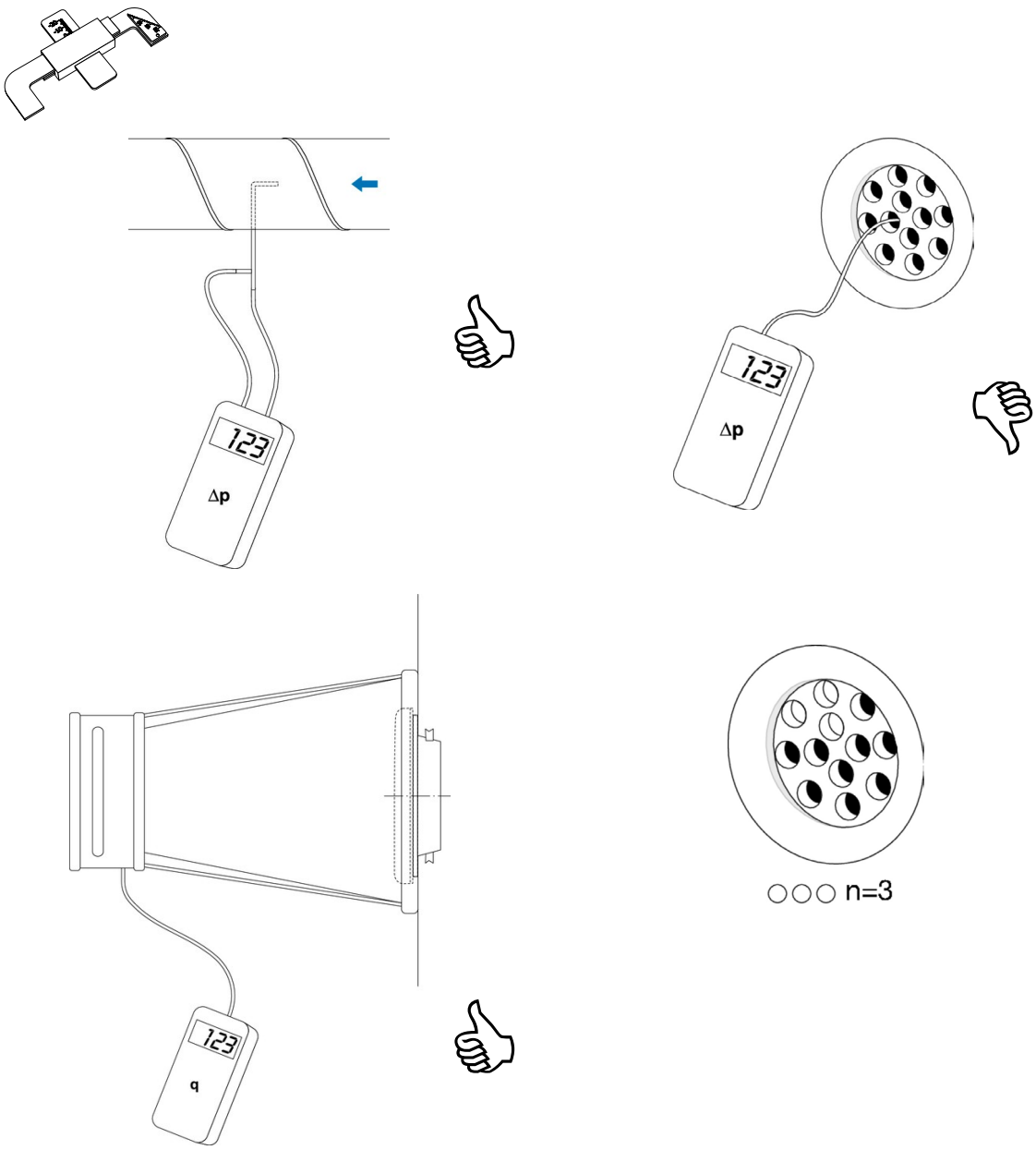






Valve

KDPF

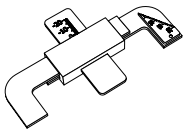


K-factors apply only to products produced after Oct 1, 2025.

Ø mm	Valve mounted in	Setting n [number of open holes]							
		n	**2**	**3**	**4**	**6**	**8**	**10**	**12**
100	Duct	k	0,60	0,72	0,93	1,28	1,69	2,20	2,65

Valve

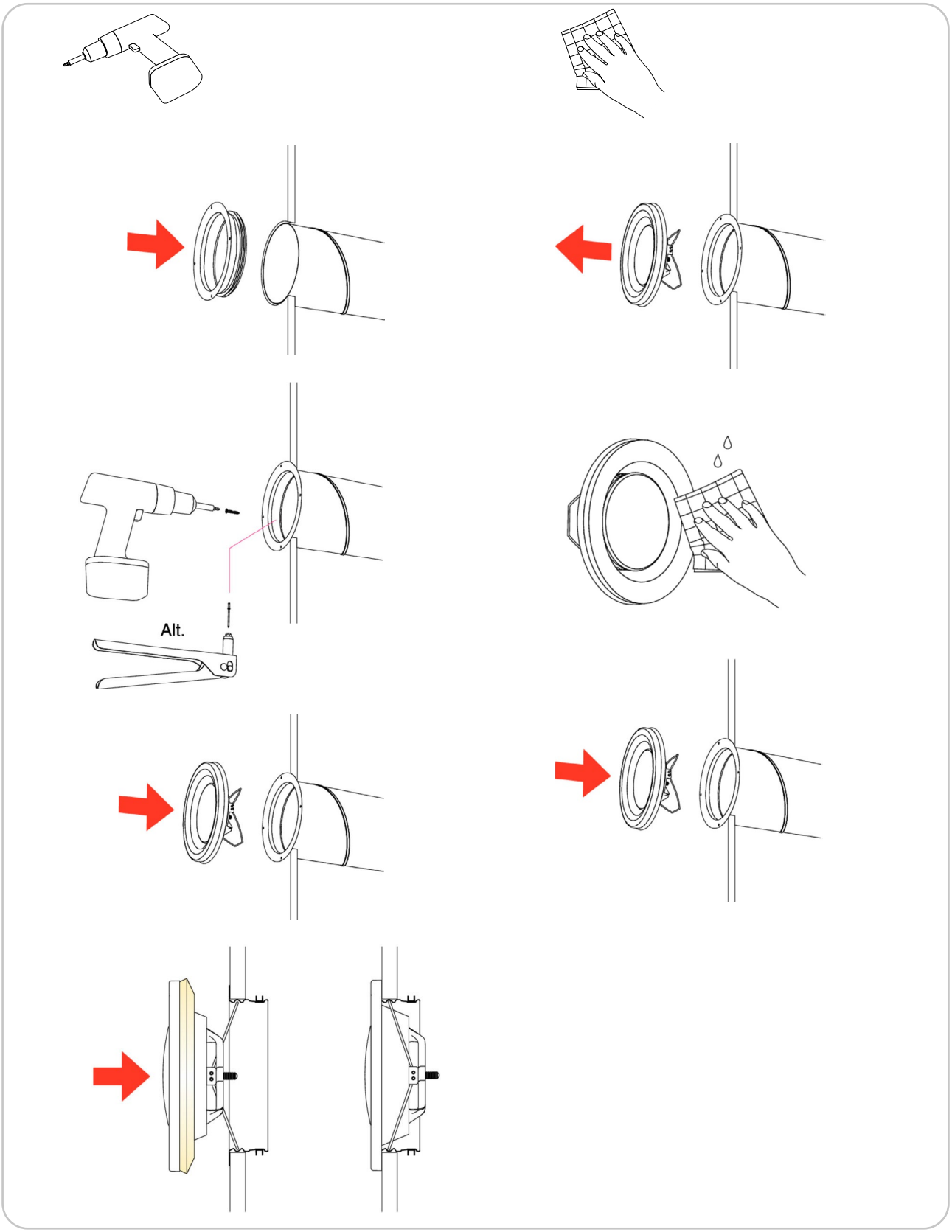
KDPF



ø mm	Valve mounted in	Setting n [number of open holes]						
100	Duct	**n**	**1**	**2**	**3**	**4**	**5**	**6**
		k	0,24	0,42	0,59	0,80	0,98	1,20
	Duct	**n**	**7**	**8**	**9**	**10**	**11**	**12**
		k	1,50	1,60	1,80	2,10	2,30	2,50

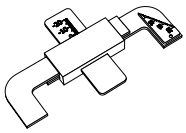
Valve

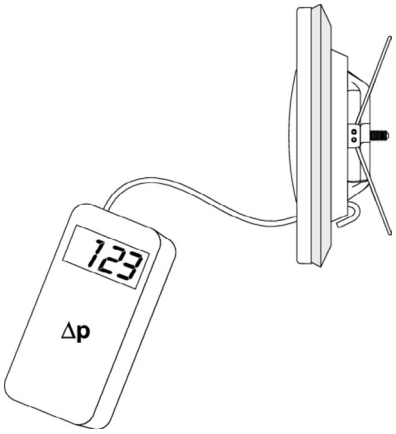
KVG Ø100–160

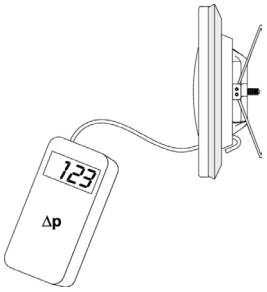


Valve

KVG Ø100–160





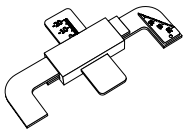


K-factors apply only to products produced after Oct 1, 2025.

Ø mm	Valve mounted in	Setting a [mm]									
100	Duct	**a**	**-9**	**-6**	**-3**	**0**	**3**	**6**	**9**	**12**	**15**
		k	0,70	1,10	1,40	1,80	2,10	2,50	2,90	3,30	3,30
125	Duct	**a**	**-17**	**-13**	**-9**	**-6**	**-3**	**0**	**5**	**10**	**15**
		k	0,90	1,40	2,10	2,70	3,10	3,50	4,30	5,00	5,80
160	Duct	**a**	**-20**	**-15**	**-10**	**-5**	**0**	**5**	**10**	**15**	**20**
		k	0,70	1,60	2,60	3,60	4,50	4,50	5,50	6,50	7,50

Valve

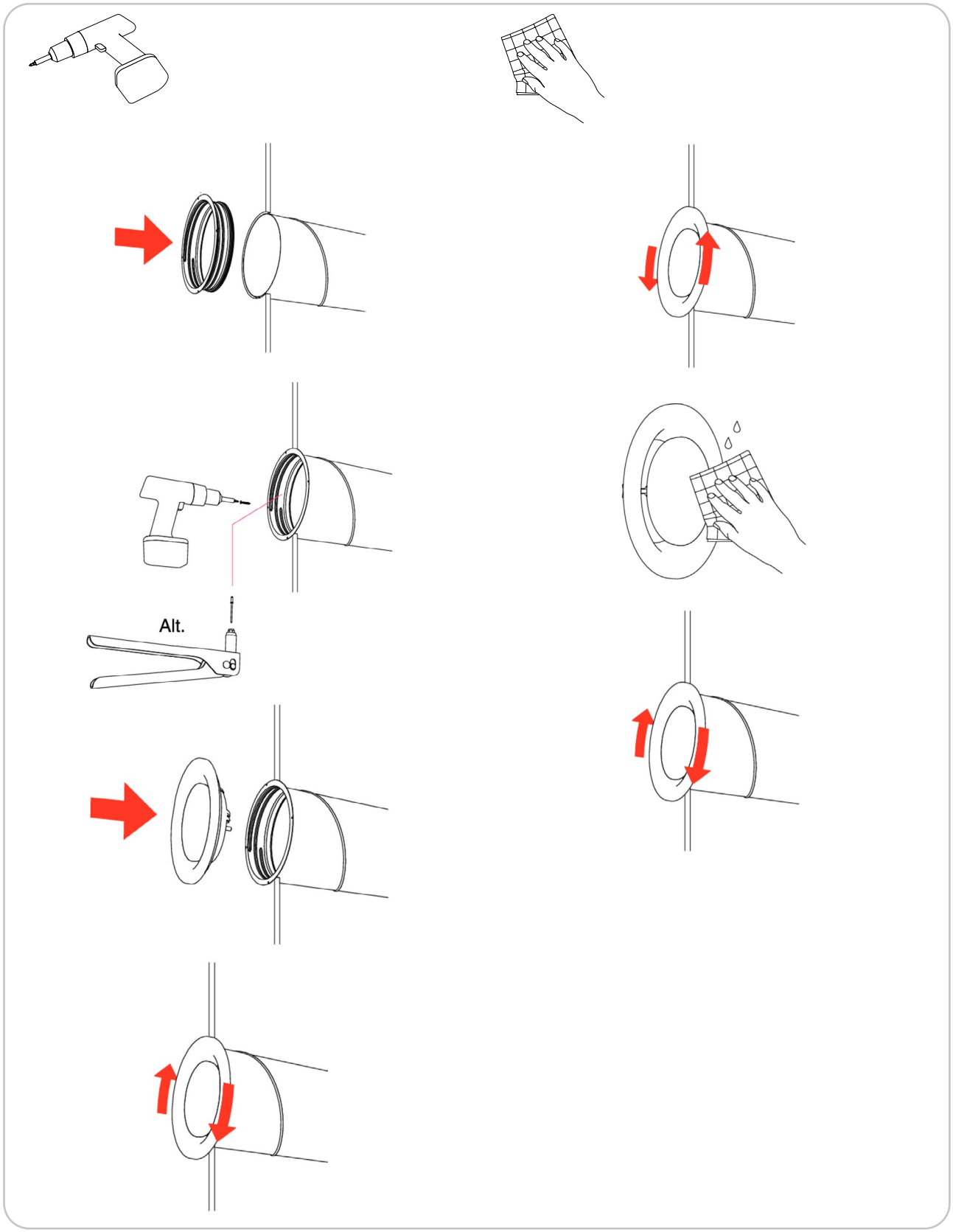
KVG Ø100–160



Ø mm	Valve mounted in	Setting a [mm]								
100	Duct Bend 90° T-piece	**a**	**-9**	**-5**	**0**	**5**	**8**	**12**		
		k	0,577 0,549 0,788	1,25 1,15 1,34	1,85 1,87 1,78	2,39 2,53 2,37	2,75 2,86 2,89	3,07 3,27 2,99		
125	Duct Bend 90° T-piece	**a**	**-17**	**-13**	**-9**	**-6**	**-3**	**0**	**5**	**10**	**15**
		k	0,736 0,651 1,12	1,27 1,31 1,94	1,96 2,06 2,64	2,41 2,49 2,89	2,93 3,35 3,06	3,36 3,62 3,54	3,96 5,03 4,07	4,79 5,43 4,97	5,85 7,05 5,61
160	Duct Bend 90° T-piece	**a**	**-18**	**-14**	**-10**	**-5**	**0**	**6**	**12**	**18**	
		k	1,05 1,05 –	1,68 1,71 1,91	2,33 2,48 2,68	3,50 3,43 3,54	4,60 4,35 4,40	5,62 5,25 5,60	6,58 6,33 6,80	7,70 7,49 7,49	

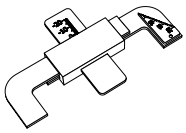
Valve

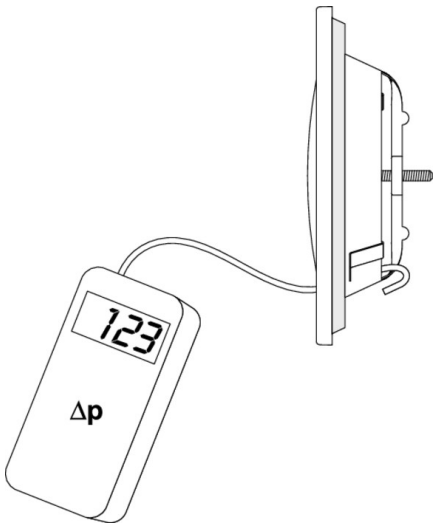
KVG Ø200

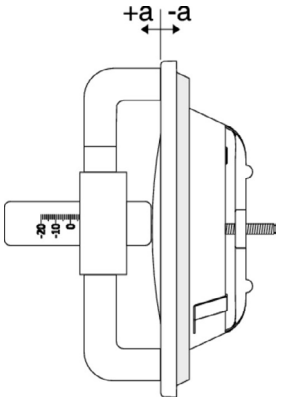


Valve

KVG Ø200





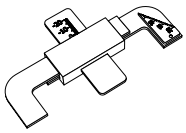


K-factors apply only to products produced after Oct 1, 2025.

Ø mm	Valve mounted in	Setting a [mm]								
200	Duct	**a**	**-20**	**-15**	**-10**	**-5**	**0**	**5**	**10**	**15**
		k	1,90	3,00	4,20	5,50	6,70	7,90	8,90	10,50

Valve

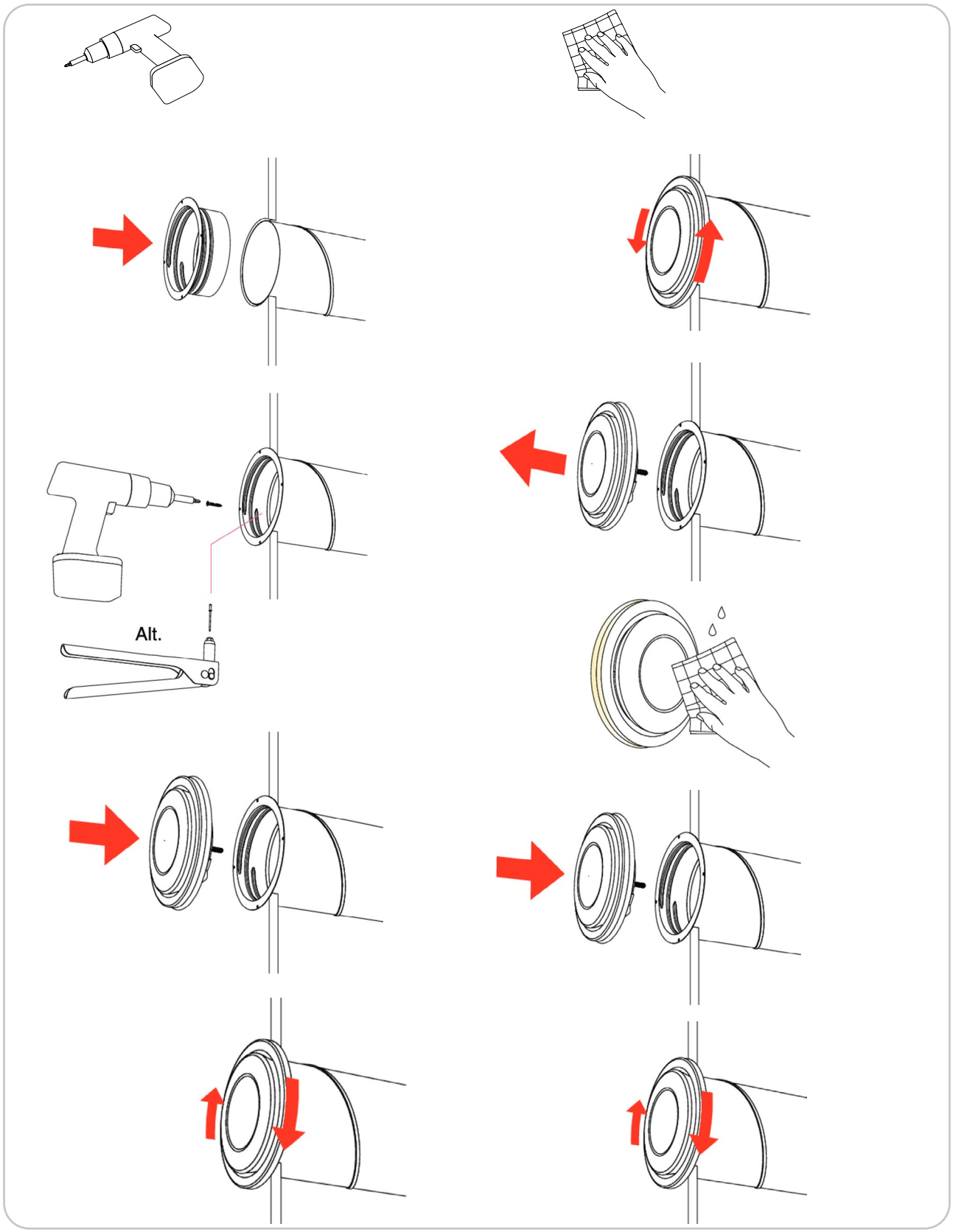
KVG Ø200



Ø mm	Valve mounted in	Setting a [mm]							
		a	**-23**	**-18**	**-15**	**-10**	**-5**	**0**	**10**	**20**
200	Duct Bend 90° T-piece	k	1,94 1,86 –	3,23 2,99 3,28	3,94 3,95 4,02	4,94 5,08 5,36	6,32 6,14 6,75	7,80 7,62 7,57	10,0 10,1 10,5	12,6 11,2 12,5

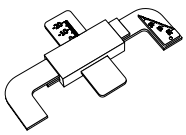
Valve

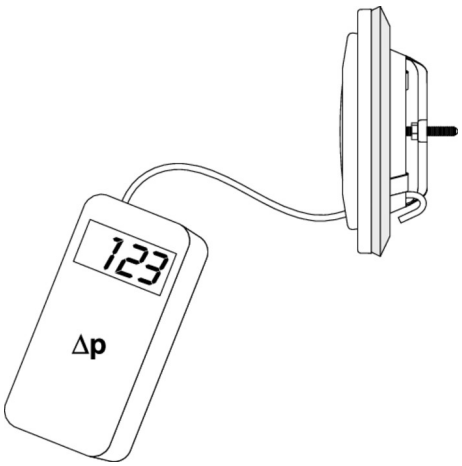
KU

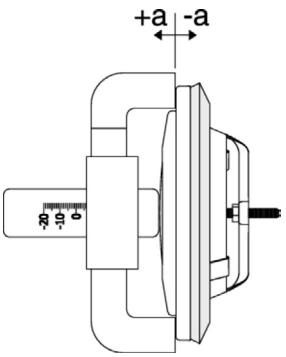


Valve

KU





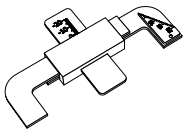


K-factors apply only to products produced after Oct, 1, 2025.

Ø mm	Valve mounted in	Setting a [mm]								
80	Duct	**a**	**-9**	**-6**	**-3**	**0**	**3**	**6**		
		k	0,62	0,85	1,25	1,42	1,70	2,00		
100	Duct	**a**	**-12**	**-9**	**-5**	**0**	**5**	**10**		
		k	0,45	0,75	1,05	1,75	2,40	3,05		
125	Duct	**a**	**-16**	**-13**	**-9**	**-6**	**-3**	**0**	**5**	**10**
		k	0,35	0,85	1,41	1,85	2,22	2,69	3,42	4,37
150	Duct	**a**	**-15**	**-12**	**-9**	**-6**	**-3**	**0**	**3**	**6**	**9**
		k	1,45	2,00	2,50	3,10	3,60	4,10	4,68	5,30	5,80
160	Duct	**a**	**-15**	**-10**	**-5**	**0**	**5**	**10**	**15**	**20**
		k	1,15	2,11	3,10	3,95	5,10	6,35	7,60	8,90
200	Duct	**a**	**-20**	**-15**	**-10**	**-5**	**0**	**5**	**10**	**15**	**20**
		k	2,75	4,00	5,20	6,30	7,50	8,80	10,0	11,6	12,8

Valve

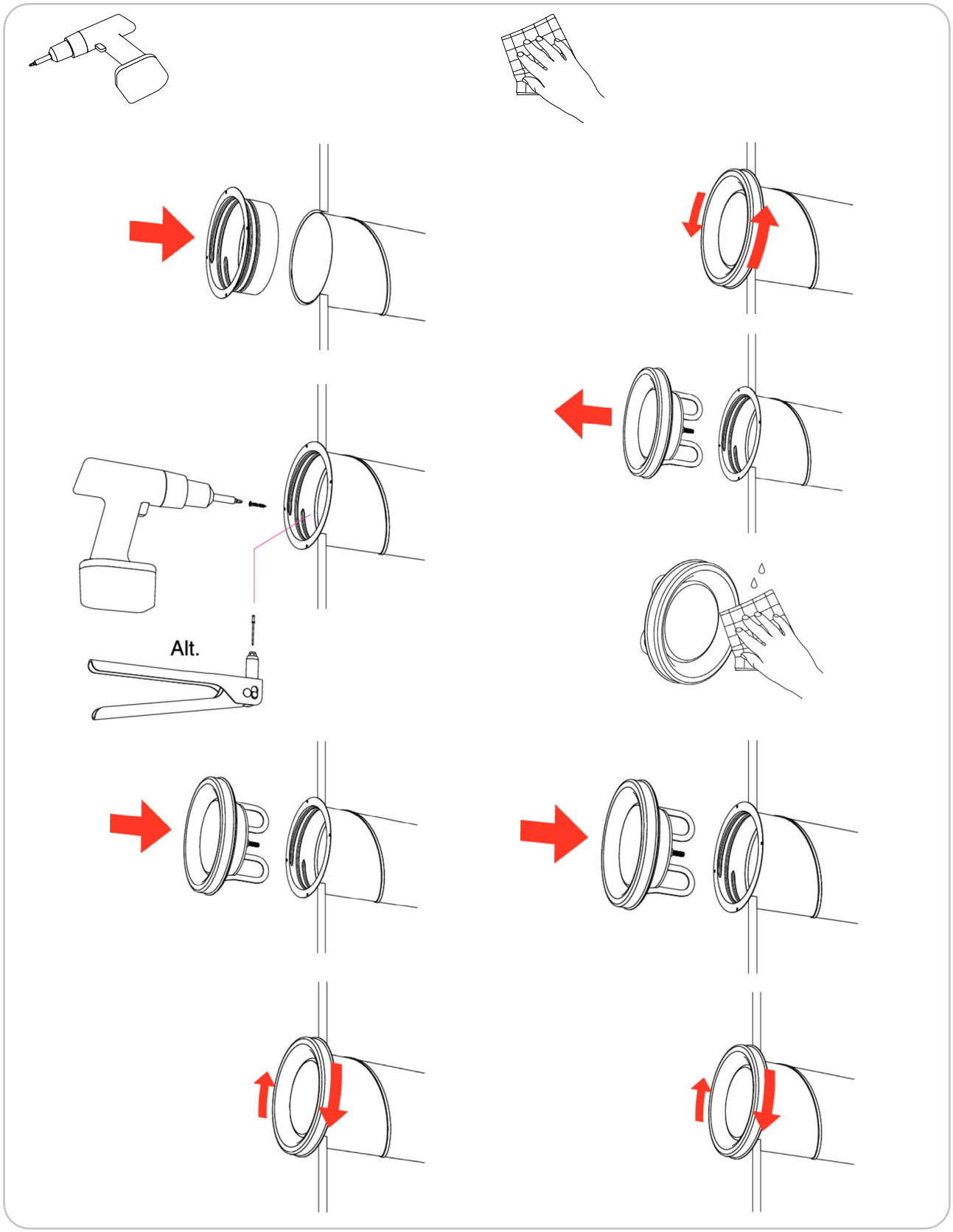
KU



Ø mm	Valve mounted in	Setting a [mm]								
80	Duct Bend 90° T-piece	**a**	**-9**	**-6**	**-3**	**0**	**3**	**6**		
		k	0,679 0,715 0,732	0,941 1,02 1,00	1,32 1,23 1,35	1,59 1,54 1,54	1,90 1,75 1,79	2,13 2,06 1,95		
100	Duct Bend 90° T-piece	**a**	**-12**	**-9**	**-5**	**0**	**5**			
		k	0,560 0,632 –	0,938 1,02 1,08	1,46 1,44 1,54	2,00 2,20 2,17	2,72 2,78 2,91			
125	Duct Bend 90° T-piece	**a**	**-17**	**-15**	**-12**	**-9**	**-6**	**-3**	**0**	**5**
		k	0,681 0,616 –	0,868 0,854 1,13	1,45 1,40 1,56	1,72 1,86 1,97	2,33 2,35 2,39	2,73 2,75 3,00	3,31 3,11 3,40	3,95 4,01 4,19
150	Duct Bend 90° T-piece	**a**	**-15**	**-12**	**-9**	**-3**	**3**	**9**		
		k	1,47 1,60 1,79	2,12 2,01 2,44	2,62 2,61 3,07	3,83 4,00 4,09	4,82 4,96 5,21	5,96 6,61 6,46		
160	Duct Bend 90° T-piece	**a**	**-20**	**-18**	**-15**	**-10**	**-5**	**0**	**6**	**10**	**12**
		k	0,833 0,879 –	1,00 1,09 1,58	1,79 1,71 2,11	2,66 2,62 3,09	3,68 3,63 3,90	4,66 4,59 4,90	5,92 5,68 6,10	6,57 6,61 6,86	7,04 6,90 7,11
200	Duct Bend 90° T-piece	**a**	**-25**	**-20**	**-15**	**-10**	**-5**	**0**	**10**	**20**	
		k	2,39 2,39 2,39	3,65 3,54 4,04	5,02 4,87 5,15	5,77 5,70 6,33	7,18 7,01 7,58	8,39 8,51 8,45	11,4 11,1 10,9	13,7 13,6 14,3	

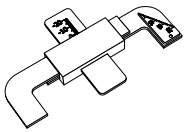
Valve

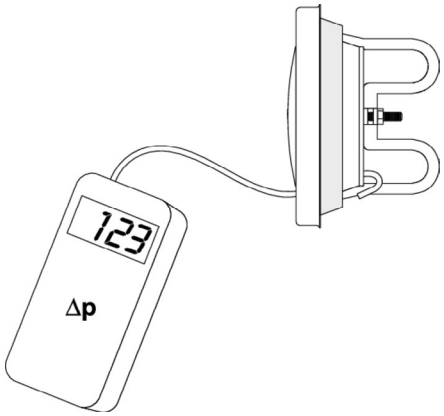
KSU

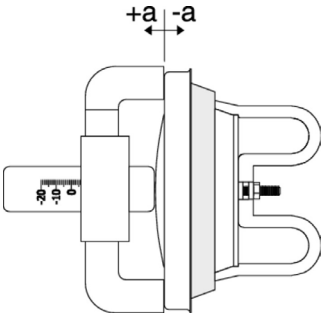


Valve

KSU





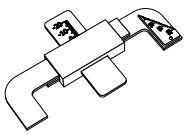


K-factors apply only to products produced after Oct, 1, 2025.

Ø mm	Valve mounted in	Setting a [mm]							
100	Duct	**a**	**-10**	**-7**	**-5**	**0**	**5**	**10**	**15**
		k	0,37	0,67	0,87	1,29	1,78	2,35	2,80
125	Duct	**a**	**-5**	**0**	**5**	**10**			
		k	1,34	1,94	2,57	3,15			
150	Duct	**a**	**-10**	**-5**	**0**	**5**	**10**	**15**	**20**
		k	1,68	2,47	3,31	4,07	4,87	5,79	6,67
160	Duct	**a**	**-10**	**-5**	**0**	**5**	**10**	**15**	**20**
		k	1,68	2,47	3,31	4,07	4,87	6,46	6,67
200	Duct	**a**	**-5**	**0**	**5**	**10**	**15**	**20**	
		k	1,40	2,55	3,75	5,00	6,30	7,60	

Valve

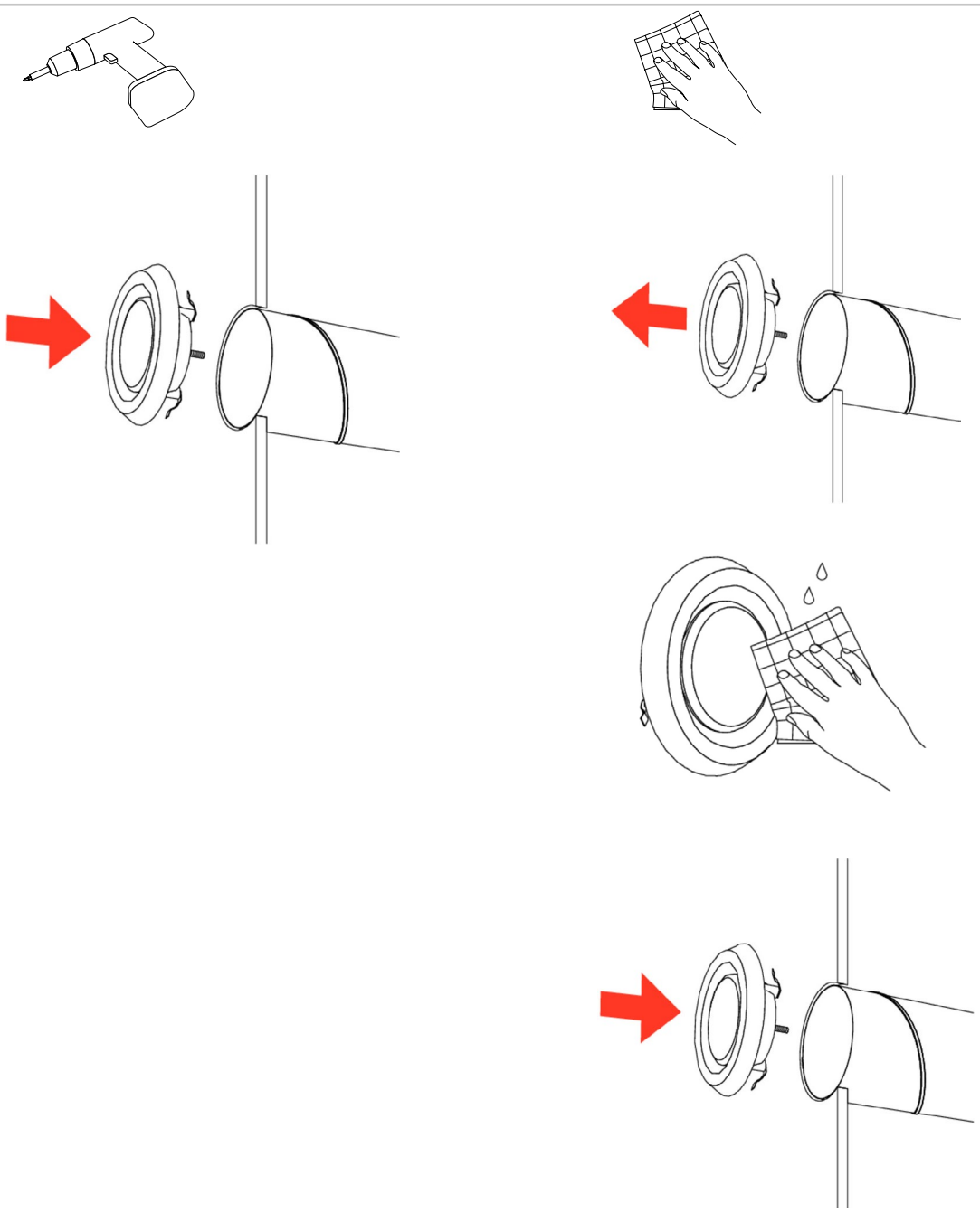
KSU



Ø mm	Valve mounted in	Setting a [mm]							
100	Duct Bend 90° T-piece	**a**	**-15**	**-12**	**-10**	**-5**	**0**	**5**	**10**
		k	0,459 0,505 0,576	0,676 0,841 0,850	0,861 1,00 1,01	1,36 1,40 1,42	1,82 1,86 1,89	2,32 2,35 2,35	2,75 2,77 2,66
125	Duct Bend 90° T-piece	**a**	**-10**	**-5**	**0**	**5**	**10**		
		k	1,29 1,24 1,53	1,93 1,90 2,20	2,59 2,61 2,88	3,29 3,33 3,41	3,91 3,90 4,27		
150	Duct Bend 90° T-piece	**a**	**-10**	**-5**	**0**	**5**	**10**	**15**	
		k	1,81 2,01 1,98	2,69 2,75 2,89	3,42 3,47 3,84	4,48 4,37 4,64	5,17 5,29 5,61	6,09 6,21 6,43	
160	Duct Bend 90° T-piece	**a**	**-10**	**-5**	**0**	**5**	**10**	**15**	
		k	1,80 1,50 2,04	2,62 2,50 2,92	3,62 3,48 4,00	4,57 4,50 4,81	5,58 5,39 5,87	6,46 6,52 6,57	
200	Duct Bend 90° T-piece	**a**	**-3**	**0**	**5**	**10**	**15**	**20**	**25**
		k	2,02 1,65 2,11	2,72 2,62 3,00	3,85 3,71 3,90	5,19 5,21 5,46	6,32 6,07 6,54	7,63 7,40 7,80	8,72 8,60 8,90

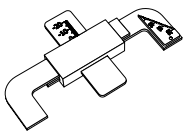
Valve

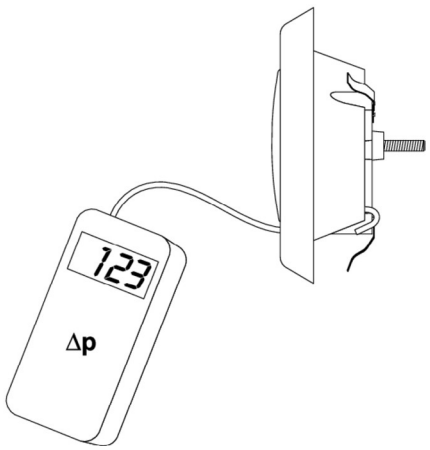
KPF

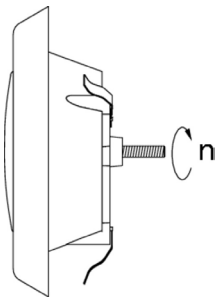


Valve

KPF





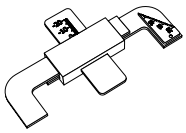


K-factors apply only to products produced after Oct, 1, 2025.

Ø mm	Valve mounted in	Setting n [number of opening turns]						
80	Duct	**n**	**0**	**3**	**6**	**9**	**12**	**15**
		k	0,68	0,81	0,95	1,11	1,25	1,35
100	Duct	**n**	**0**	**3**	**6**	**12**	**15**	**18**
		k	1,54	1,71	1,96	2,48	2,91	3,17
125	Duct	**n**	**0**	**3**	**6**	**9**	**12**	**15**
		k	1,72	1,99	2,35	2,69	2,98	3,31
160	Duct	**n**	**-3**	**0**	**3**	**6**	**9**	**15**
		k	0,90	1,30	1,80	2,70	3,20	3,70
200	Duct	**n**	**3**	**6**	**9**	**12**	**15**	**18**
		k	1,77	2,57	3,26	4,23	4,93	5,84

Valve

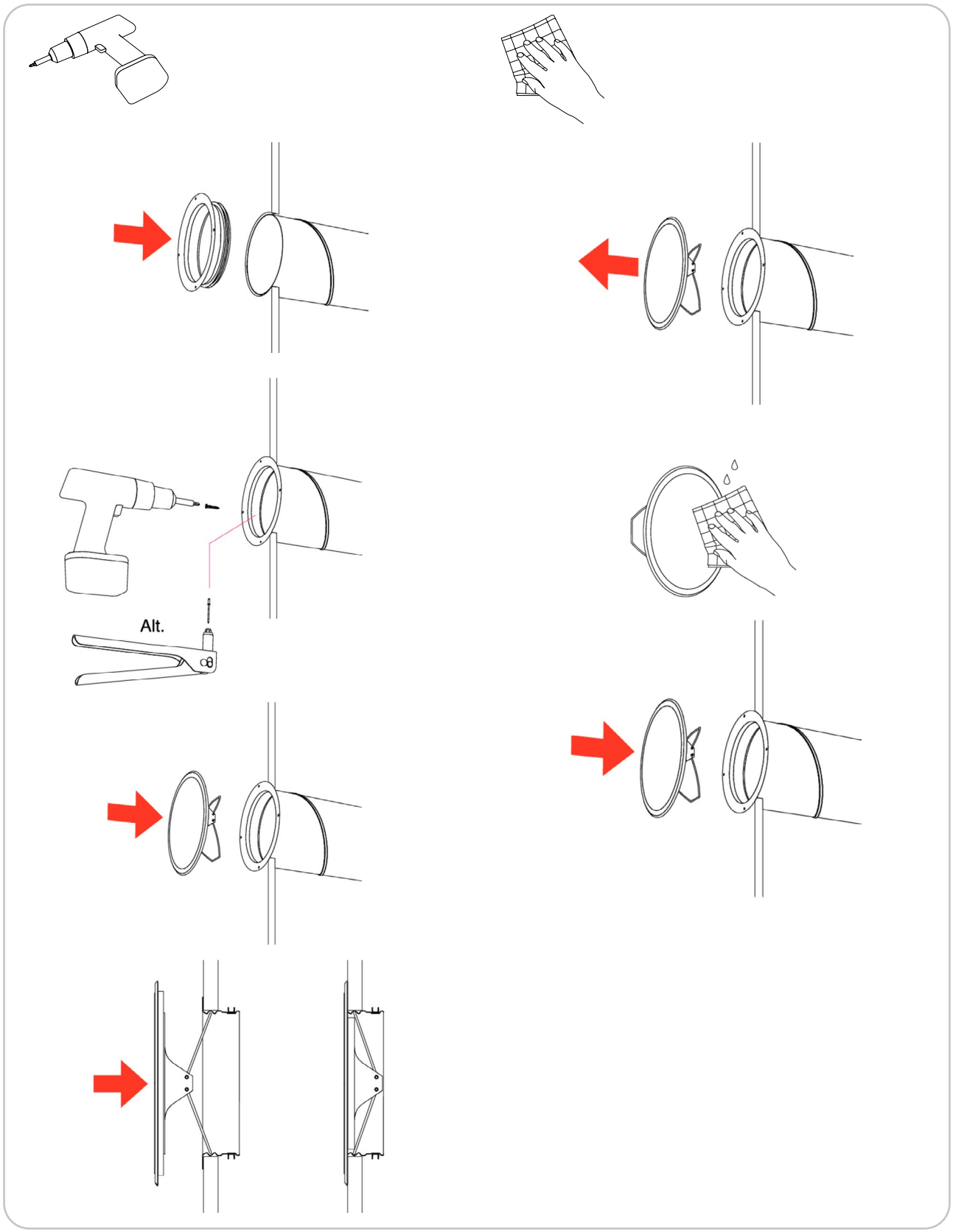
KPF



Ø mm	Valve mounted in	Setting n [number of opening turns]						
80	Duct Bend 90° T-piece	**n**	**0**	**3**	**6**	**9**	**12**	**15**
		k	0,489 0,517 –	0,675 0,621 0,715	1,08 0,867 0,915	1,07 1,10 1,14	1,55 1,31 1,18	1,42 1,42 1,41
100	Duct Bend 90° T-piece	**n**	**0**	**3**	**6**	**9**	**15**	**18**
		k	1,54 1,58 1,68	1,71 1,89 1,76	1,96 2,20 2,17	2,48 2,62 2,52	2,91 2,94 2,91	3,17 3,39 3,23
125	Duct Bend 90° T-piece	**n**	**0**	**3**	**6**	**9**	**12**	**15**
		k	1,76 1,82 –	1,99 1,95 2,07	2,44 2,42 2,66	2,89 2,74 2,90	3,31 3,21 3,47	3,67 3,56 5,26
160	Duct Bend 90° T-piece	**n**	**3**	**6**	**9**	**12**	**15**	**18**
		k	1,54 1,41 1,57	2,19 1,97 2,22	2,78 2,52 2,84	3,20 3,04 3,43	3,94 3,63 4,05	4,46 4,23 4,63
200	Duct Bend 90° T-piece	**n**	**3**	**6**	**9**	**12**	**15**	**18**
		k	1,77 1,78 –	2,57 2,45 2,53	3,26 3,26 3,03	4,23 3,48 3,79	4,93 4,89 4,55	5,84 5,14 5,04

Cover

TLO



Most of us spend the majority of our time indoors. Indoor climate is crucial to how we feel, how productive we are and if we stay healthy.

We at Lindab have therefore made it our most important objective to contribute to an indoor climate that improves people's lives. We do this by developing energy-efficient ventilation solutions and durable building products. We also aim to contribute to a better climate for our planet by working in a way that is sustainable for both people and the environment.

Lindab | For a better climate