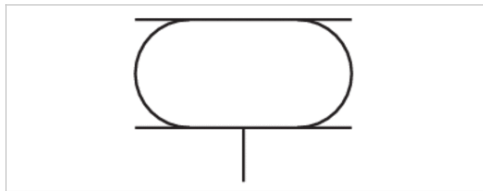


Series BCC

- single

- Stroke 15-125 mm



Type

Functional principle

Working pressure min./max.

Ambient temperature min./max.

Medium

Permissible angle of tilt max.

Pressure for determining forces

Weight

Bellow actuator with mounting ring and cover

Single-acting, retracted without pressure

0 ... 8 bar

See table below

Compressed air

20 °

6 bar

See table below

Technical data

Part No.	Cover diameter	Compressed air connection	Max. effective stroke
		G	
R412020583	78 mm	G 1/4	15 mm
R412020584	110 mm	G 3/8	35 mm
R414000177	152,5 mm	G 1/2	50 mm
R412020585	153,5 mm	G 1/2	45 mm
R412020586	184 mm	G 1/2	65 mm
R412020587	210 mm	G 1/2	85 mm
R412020588	260 mm	G 1/2	85 mm
R412020589	310 mm	G 1/2	100 mm
R412020590	310 mm	G 1/2	125 mm

Part No.	Min. radial installation space	Feature	Ambient temperature min./max.
R412020583	95 mm	2 3/4x1	-30 ... 90 °C
R412020584	140 mm	4 1/2x1	-30 ... 90 °C
R414000177	190 mm	6x1	-30 ... 90 °C
R412020585	190 mm	6x1	-30 ... 90 °C
R412020586	245 mm	8x1	-40 ... 70 °C
R412020587	300 mm	10x1	-40 ... 70 °C
R412020588	350 mm	12x1	-40 ... 70 °C
R412020589	425 mm	14 1/2x1	-40 ... 70 °C
R412020590	445 mm	16x1	-40 ... 70 °C

Part No.	Material	Material	Force min./max.	Weight
	Bellow	Cap		
R412020583	Chloroprene rubber	Aluminum	1300 ... 2600 N	0,45 kg
R412020584	Chloroprene rubber	Aluminum	1900 ... 5600 N	0,7 kg
R414000177	Chloroprene rubber	Aluminum	4900 ... 11900 N	1,6 kg
R412020585	Chloroprene rubber	Steel galvanized	4900 ... 11200 N	2,5 kg
R412020586	caoutchouc/butadiene caoutchouc	Steel galvanized	8000 ... 18000 N	3,1 kg
R412020587	caoutchouc/butadiene caoutchouc	Steel galvanized	12000 ... 25500 N	4,1 kg
R412020588	caoutchouc/butadiene caoutchouc	Steel galvanized	18000 ... 38000 N	5,4 kg
R412020589	caoutchouc/butadiene caoutchouc	Steel galvanized	28000 ... 58000 N	7,1 kg
R412020590	caoutchouc/butadiene caoutchouc	Steel galvanized	38000 ... 61000 N	7,6 kg

Part No.	Fig.
R412020583	Fig. 1
R412020584	Fig. 2
R414000177	Fig. 3
R412020585	Fig. 4
R412020586	Fig. 4
R412020587	Fig. 4
R412020588	Fig. 4
R412020589	Fig. 4
R412020590	Fig. 4

Technical information

Compliance with the minimum height H min. as well as the maximum height H max. must be ensured with end stops.

Use at operating height $\geq H_{max}$: only permitted upon approval by AVENTICS

Further information on vibration isolation can be found in the "Technical information" document (available in the MediaCentre).

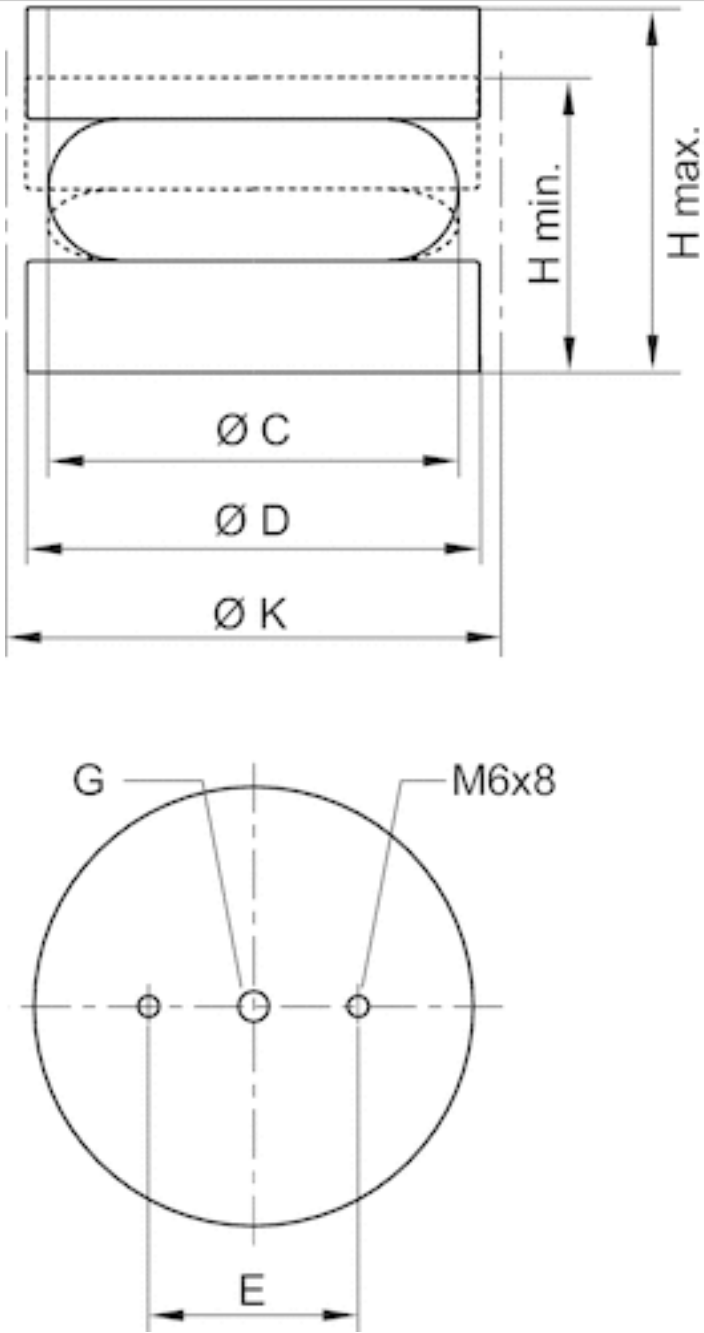
The bellow can be exchanged.

Technical information

Material	
Bellow	Chloroprene rubber caoutchouc/butadiene caoutchouc
Front cover	Aluminum Steel, galvanized
End cover	Aluminum Steel, galvanized

Dimensions

Fig. 1

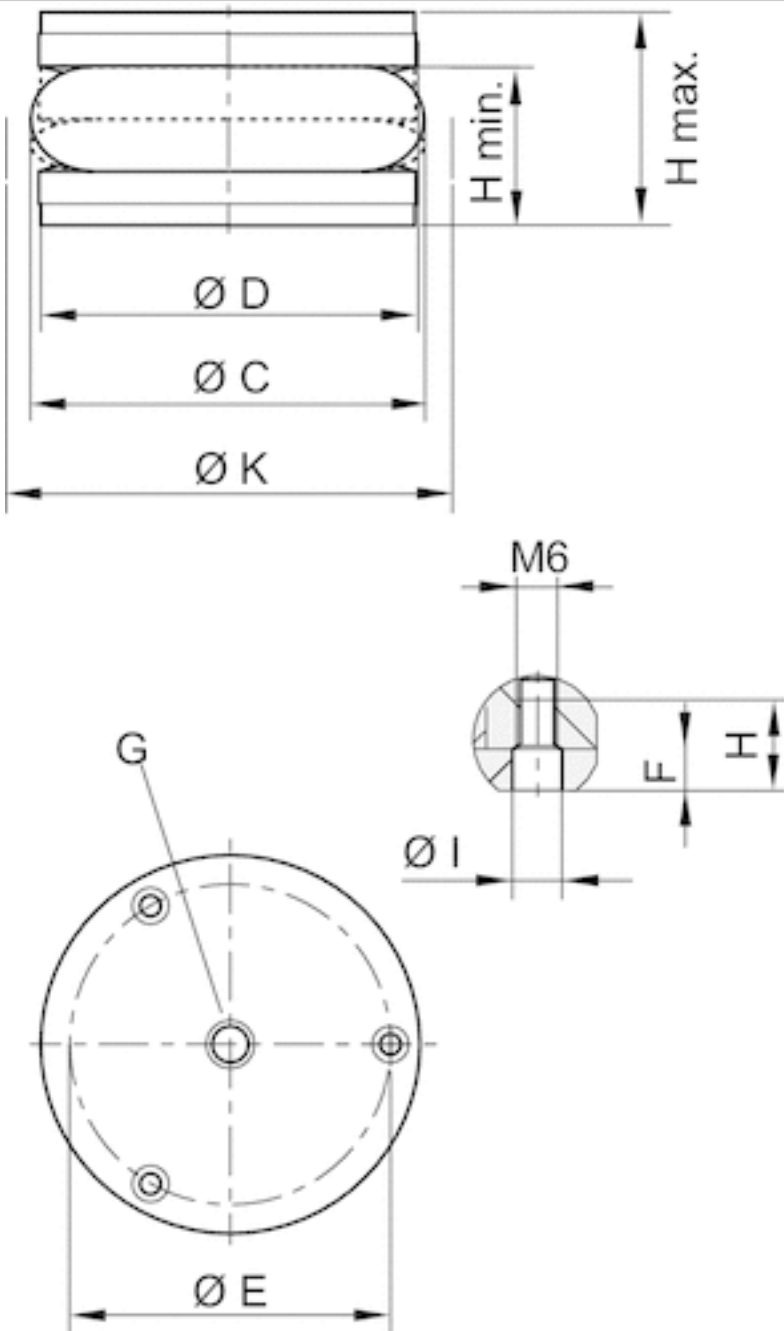


Dimensions

Part No.	Compressed air connection G	H min.	H max.	C	D	E $\pm 0,5$ mm
R412020583	G 1/4	50 mm	65 mm	80 mm	78 mm	36
K mm		Return force, min.				
95 mm		400 N				

Dimensions

Fig. 2

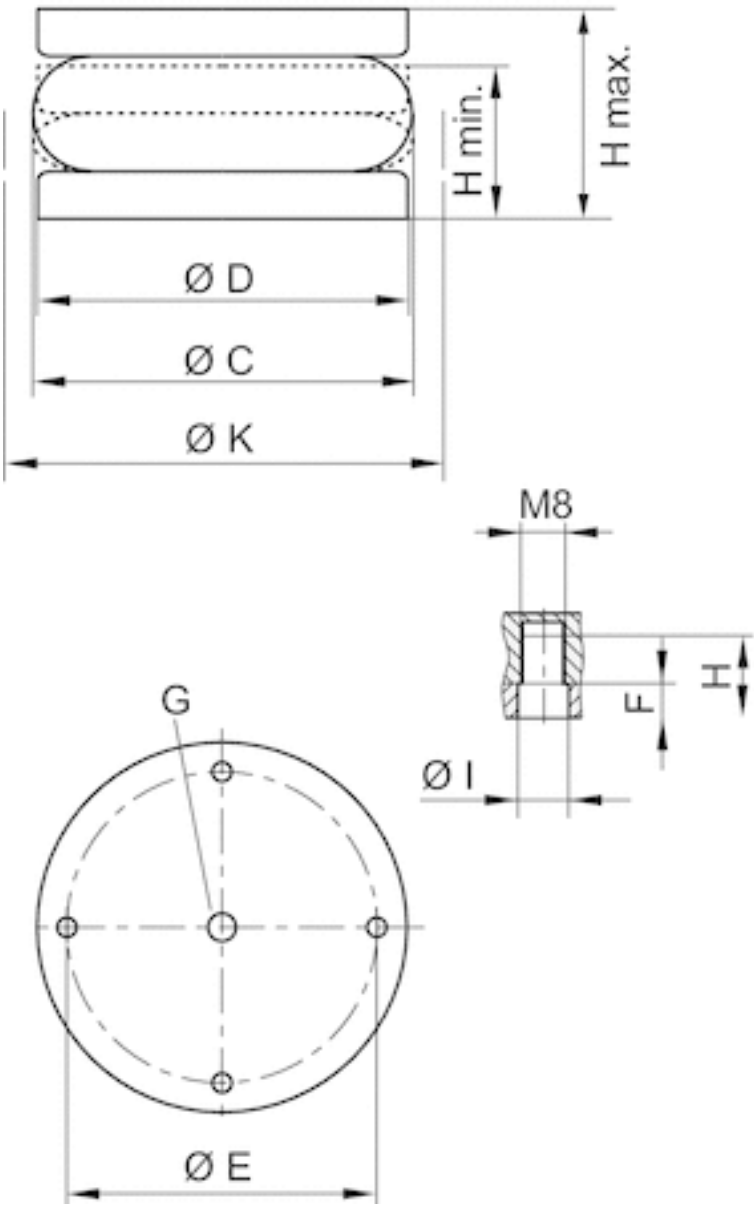


Dimensions

Part No.	Compressed air connection G	H min.	H max.	C	D	E $\pm 0,5$ mm
R412020584	G 3/8	50 mm	85 mm	125 mm	110 mm	93
F mm	H mm	I mm	K	Return force, min.		
6	13	7	140 mm	150 N		

Dimensions

Fig. 3

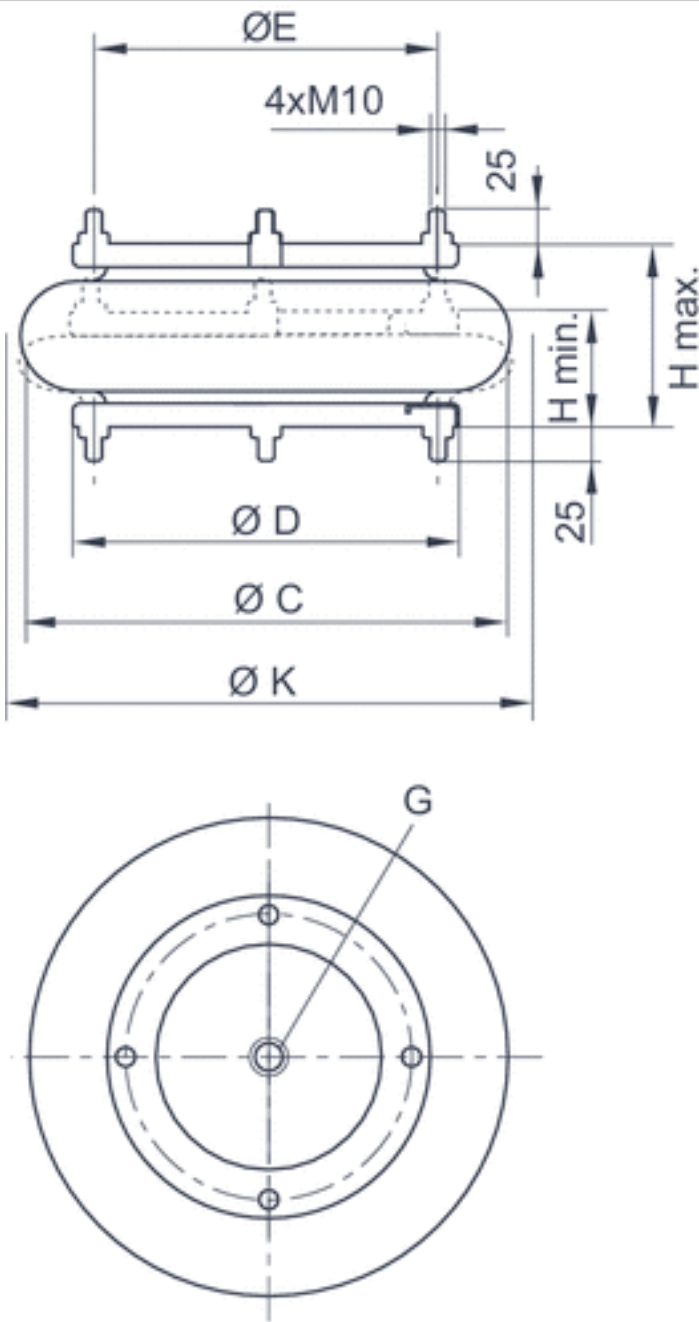


Dimensions

Part No.	Compressed air connection G	H min.	H max.	C	D
R414000177	G 1/2	55 mm	105 mm	175 mm	152,5 mm
E ±0,5 [mm] mm	F mm	H mm	I mm	K	Return force, min. N
127	6	14.5	9	190 mm	320 N

Dimensions

Fig. 4



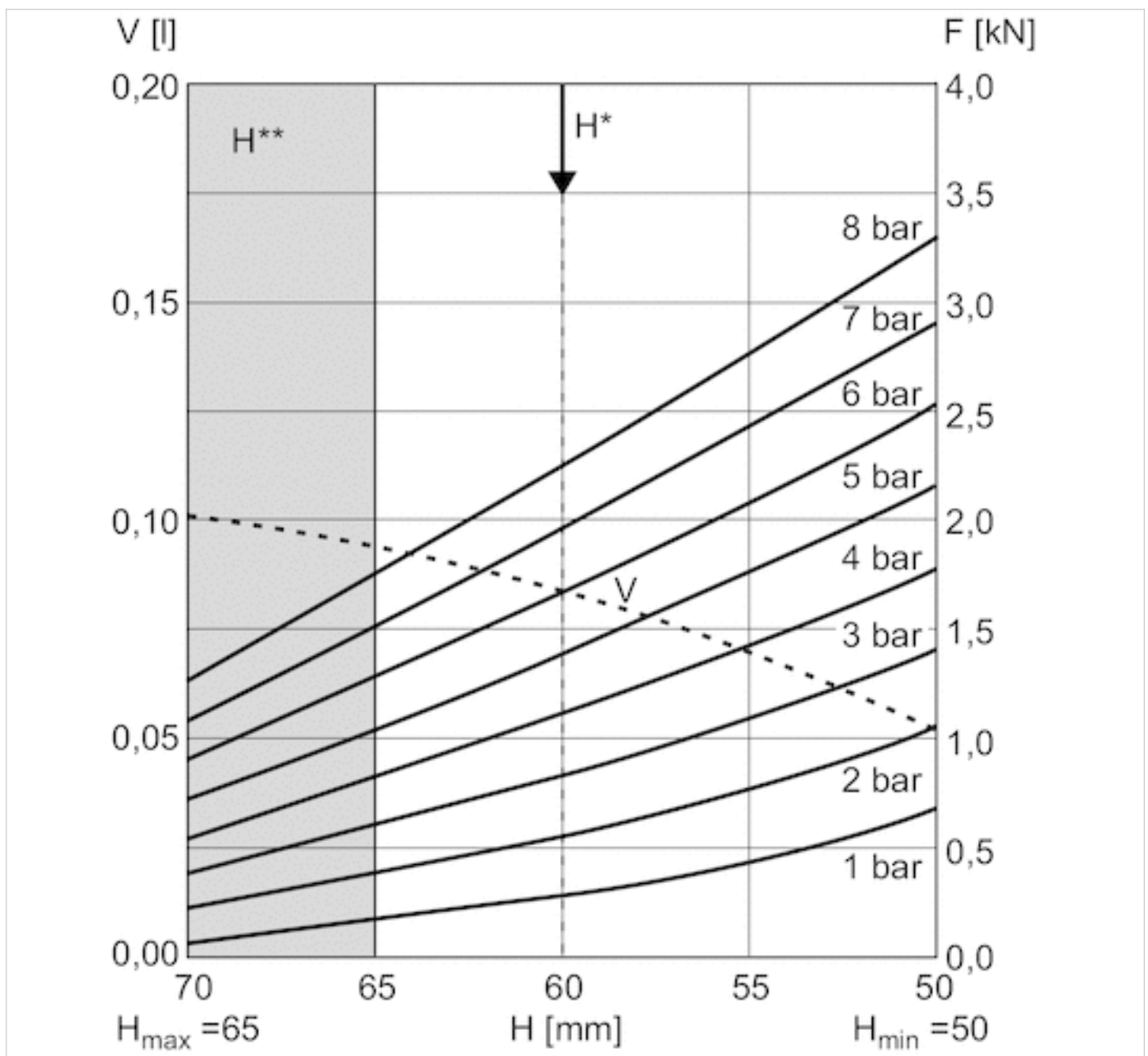
Dimensions

Part No.	Compressed air connection G	H min.	H max.	C	D	E mm
R412020585	G 1/2	50 mm	95 mm	175 mm	153,5 mm	127
R412020586	G 1/2	50 mm	115 mm	230 mm	184 mm	155.5
R412020587	G 1/2	50 mm	135 mm	270 mm	210 mm	181
R412020588	G 1/2	50 mm	135 mm	330 mm	260 mm	232
R412020589	G 1/2	50 mm	150 mm	400 mm	310 mm	282.5
R412020590	G 1/2	50 mm	175 mm	420 mm	310 mm	282.5

K	Return force, min.
190 mm	320 N
245 mm	290 N
300 mm	150 N
350 mm	200 N
425 mm	230 N
445 mm	30 N

Diagrams

Force-displacement diagram, R412020583



V = volume

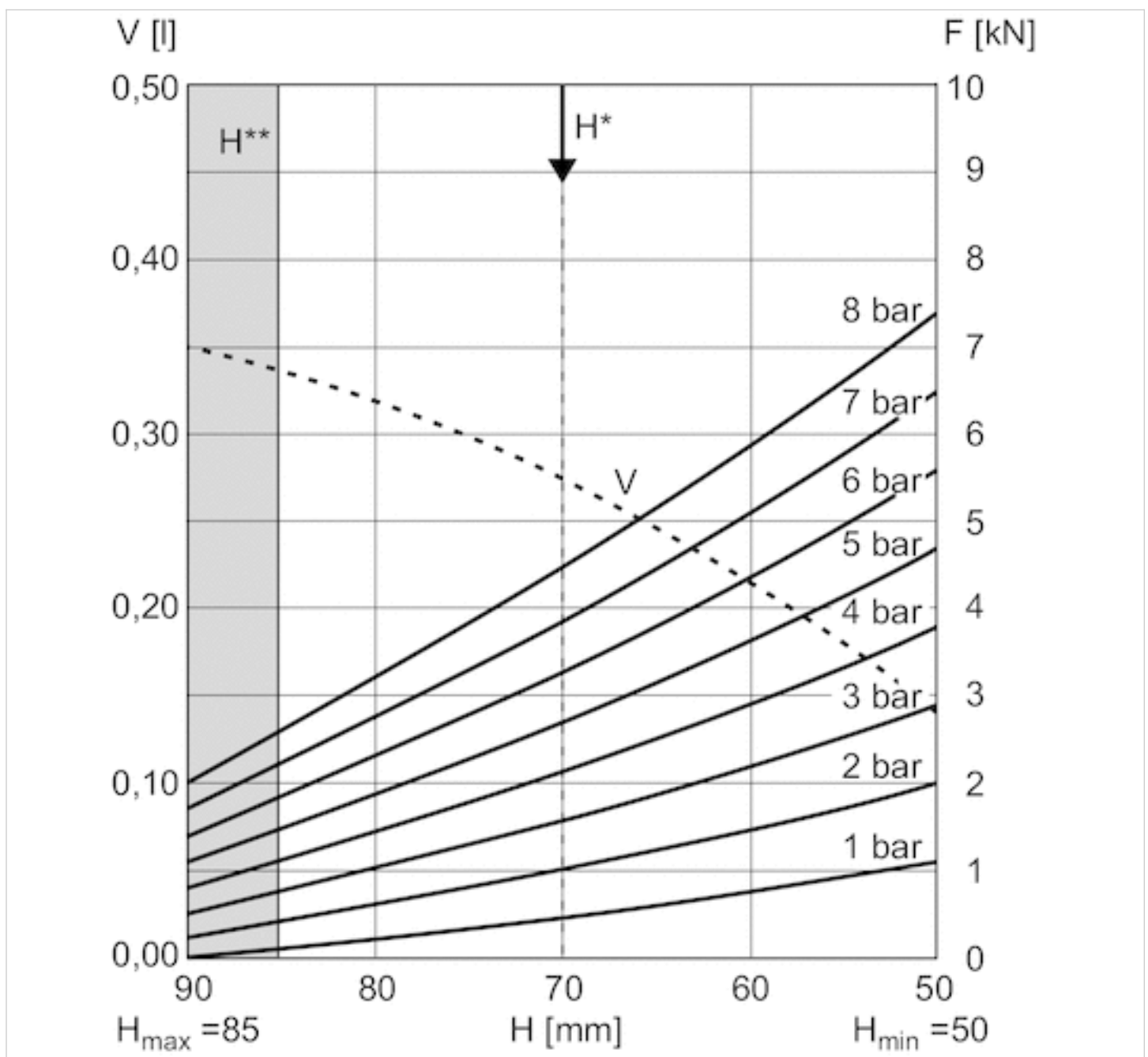
H = height

H^* = recommended operating height for vibration isolation

H^{**} = use permitted only upon approval by AVENTICS

1 kN = 1000 N

Force-displacement diagram, R412020584



V = volume

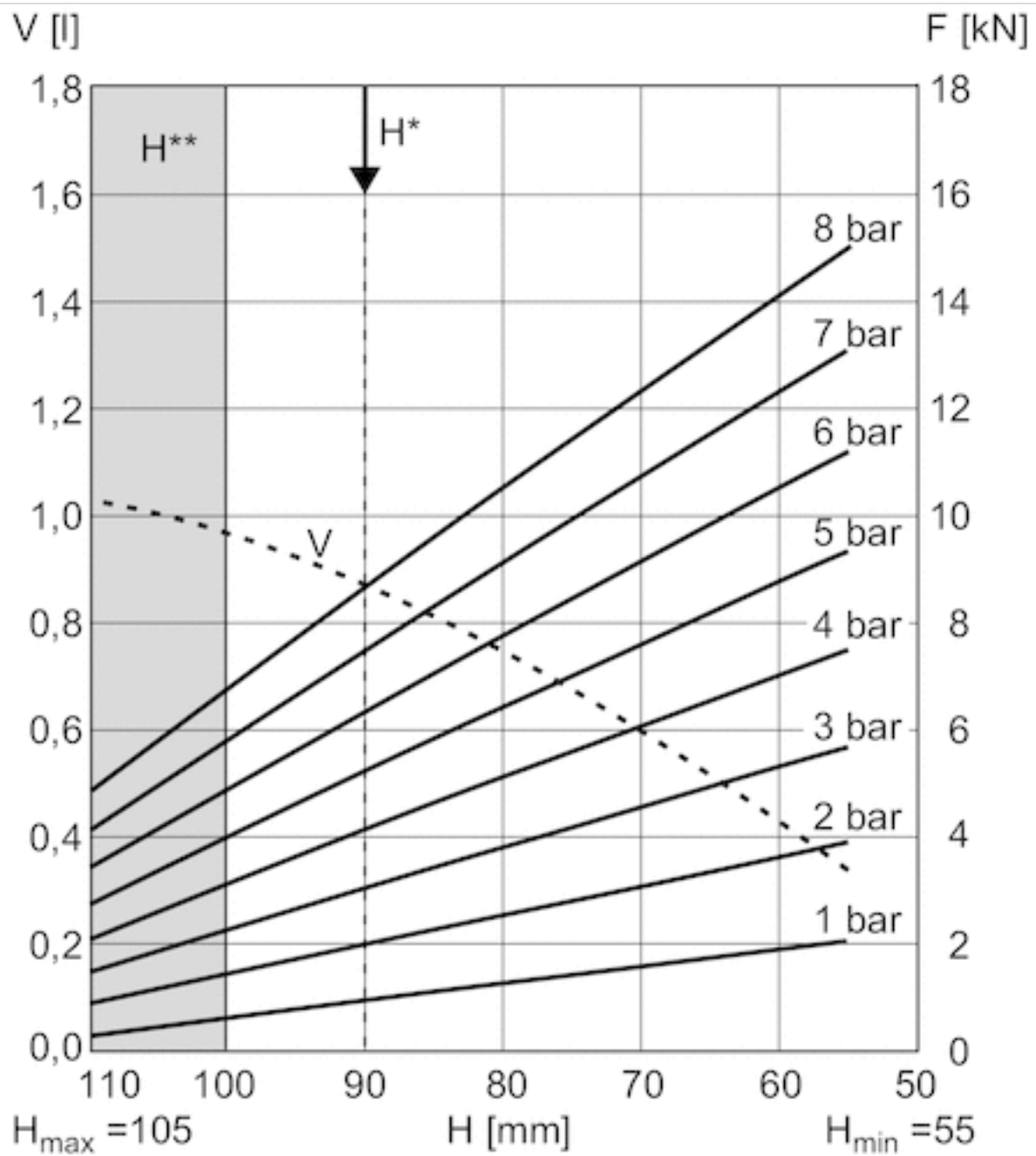
H = height

H^* = recommended operating height for vibration isolation

H^{**} = use permitted only upon approval by AVENTICS

1 kN = 1000 N

Force-displacement diagram, R414000177



V = volume

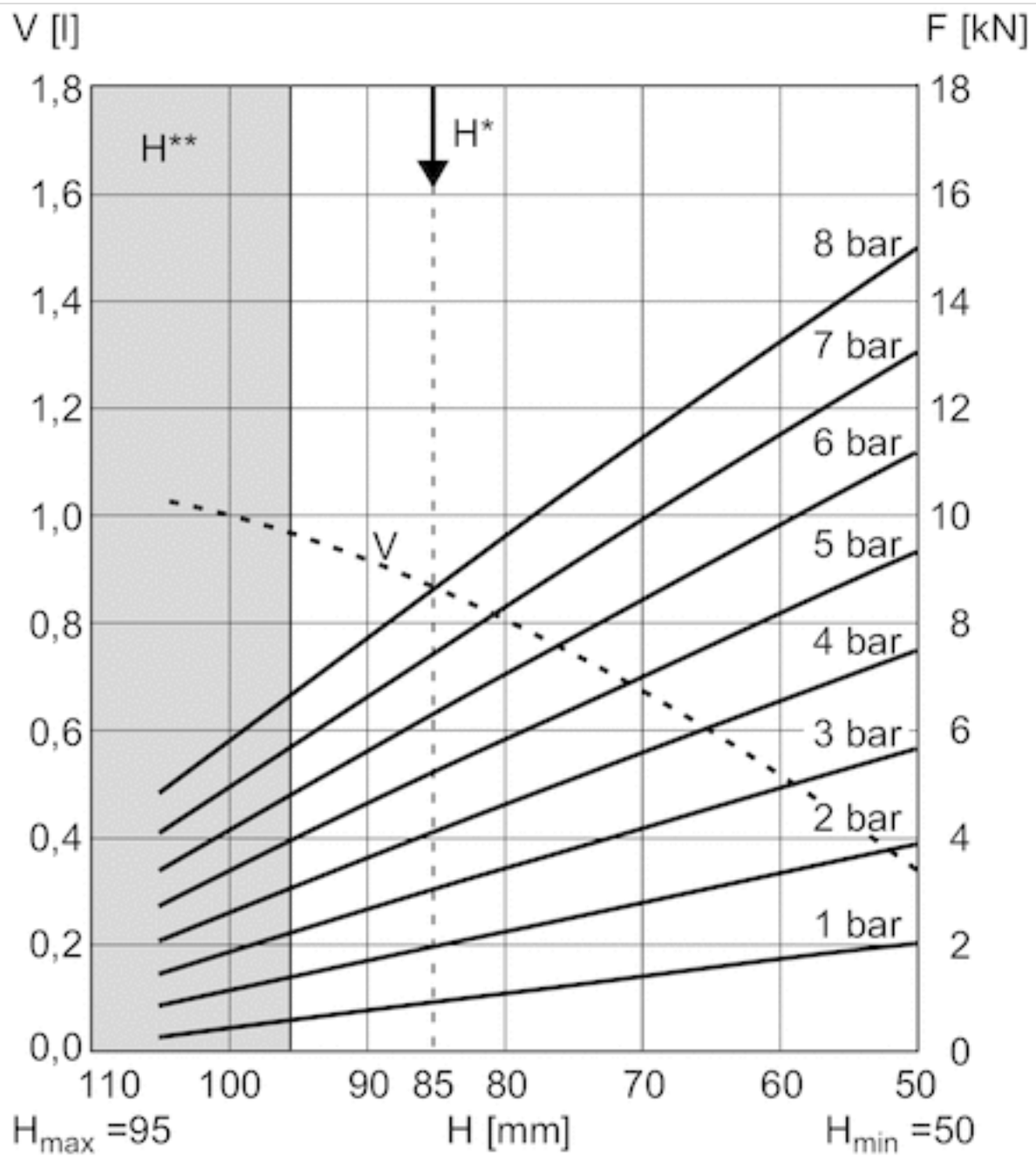
H = height

H* = recommended operating height for vibration isolation

H** = use permitted only upon approval by AVENTICS

1 kN = 1000 N

Force-displacement diagram, R412020585



V = volume

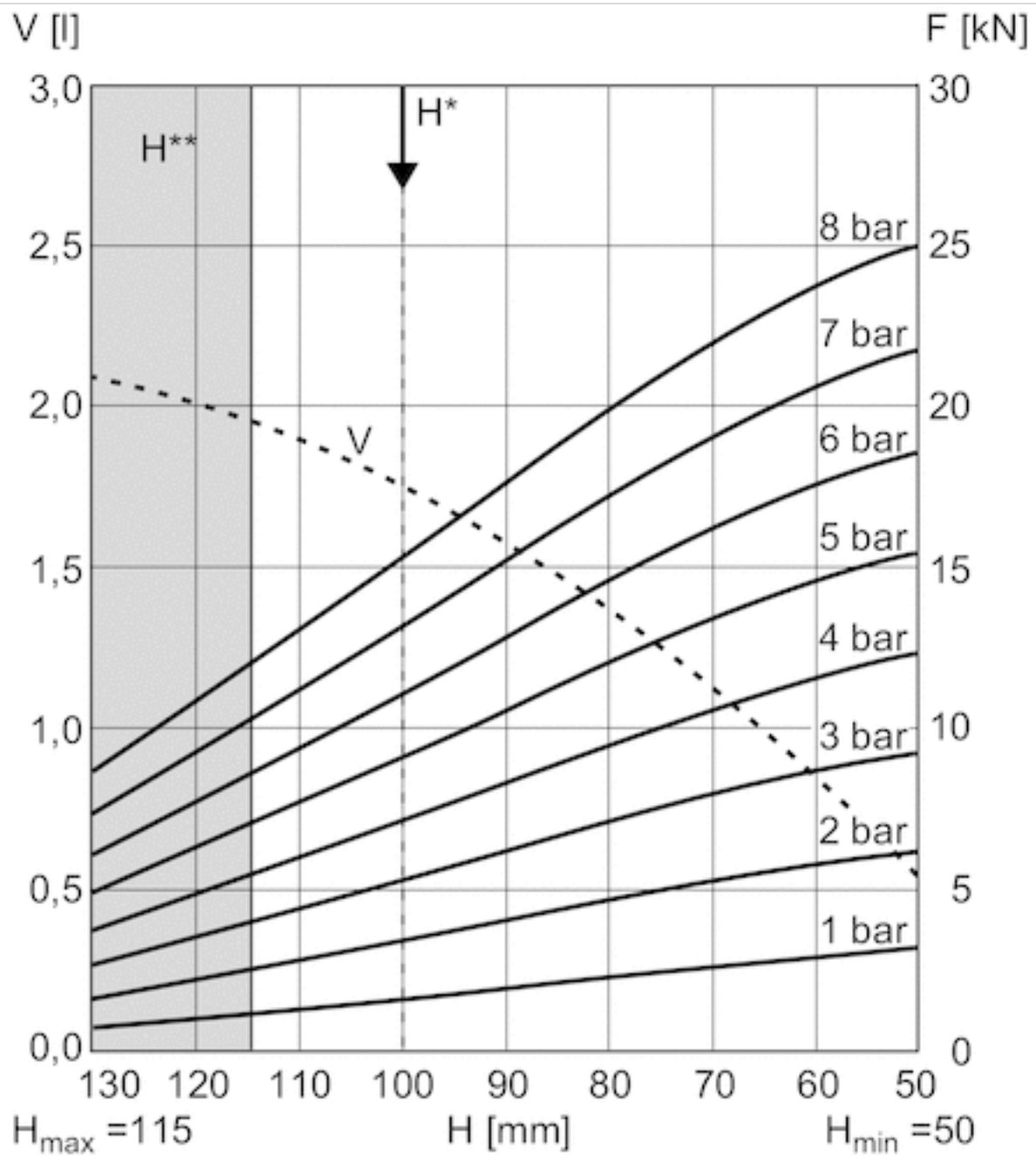
H = height

H^* = recommended operating height for vibration isolation

H^{**} = use permitted only upon approval by AVENTICS

1 kN = 1000 N

Force-displacement diagram, R412020586



V = volume

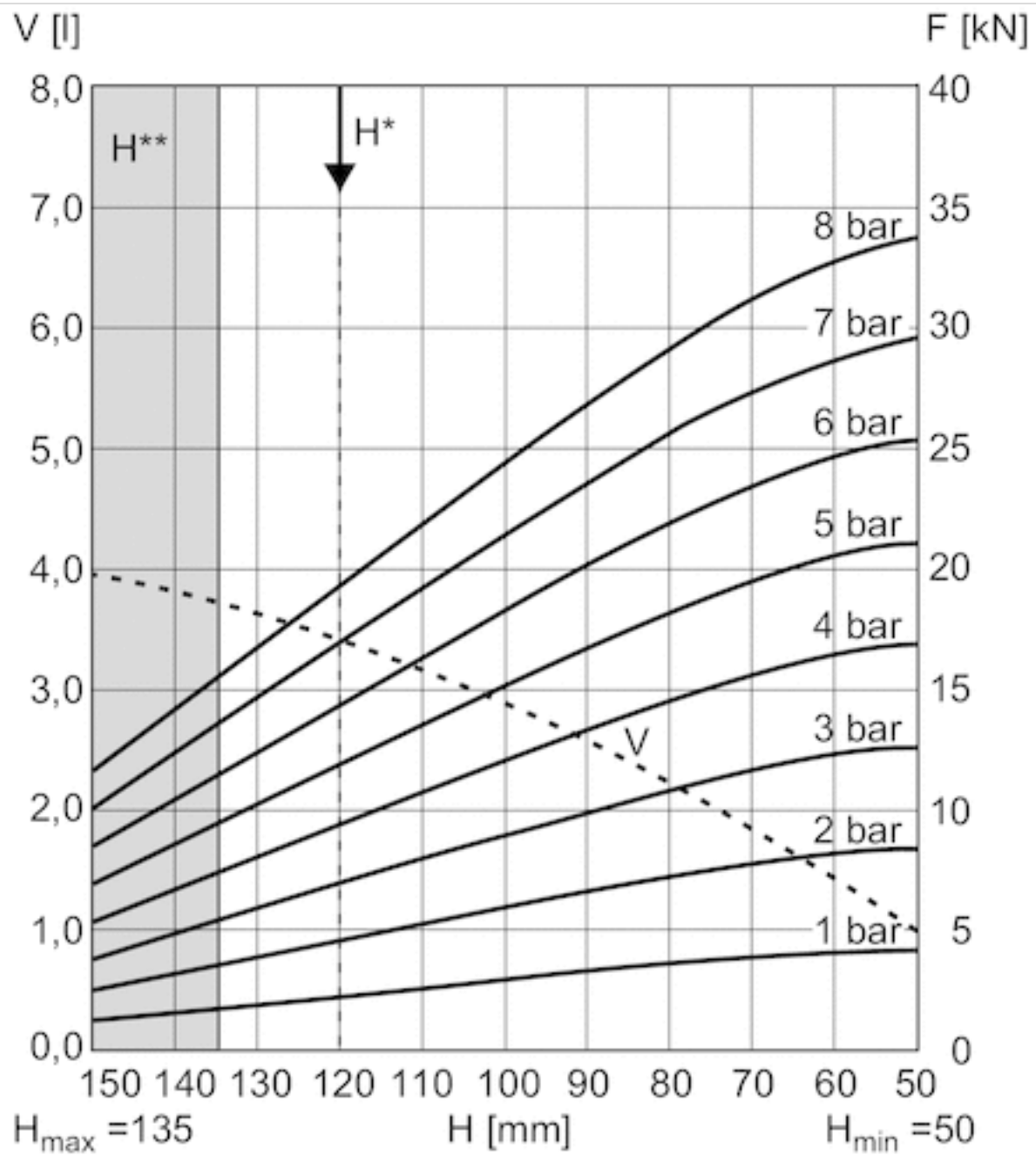
H = height

H^* = recommended operating height for vibration isolation

H^{**} = use permitted only upon approval by AVENTICS

1 kN = 1000 N

Force-displacement diagram, R412020587



V = volume

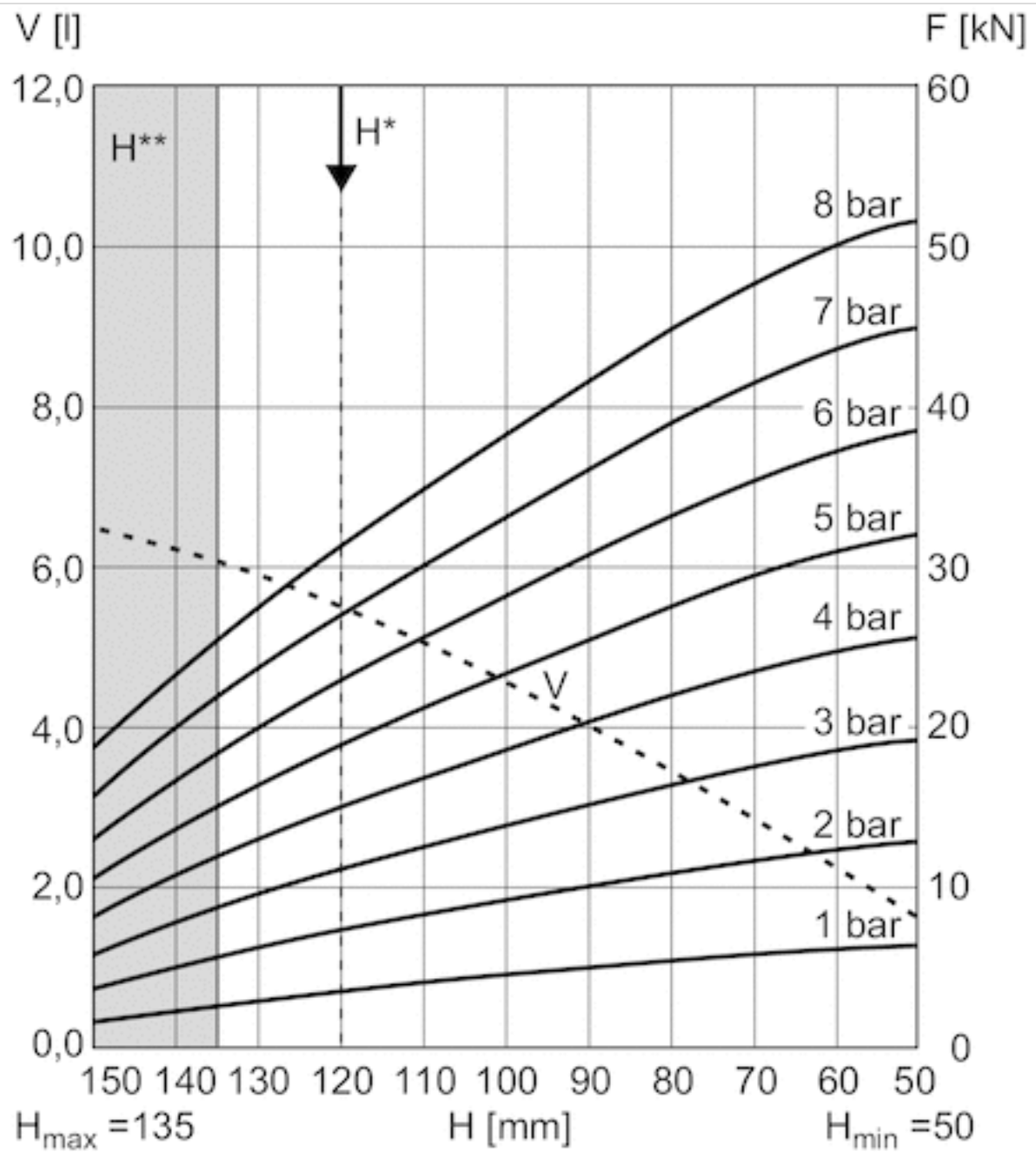
H = height

H^* = recommended operating height for vibration isolation

H^{**} = use permitted only upon approval by AVENTICS

1 kN = 1000 N

Force-displacement diagram, R412020588



V = volume

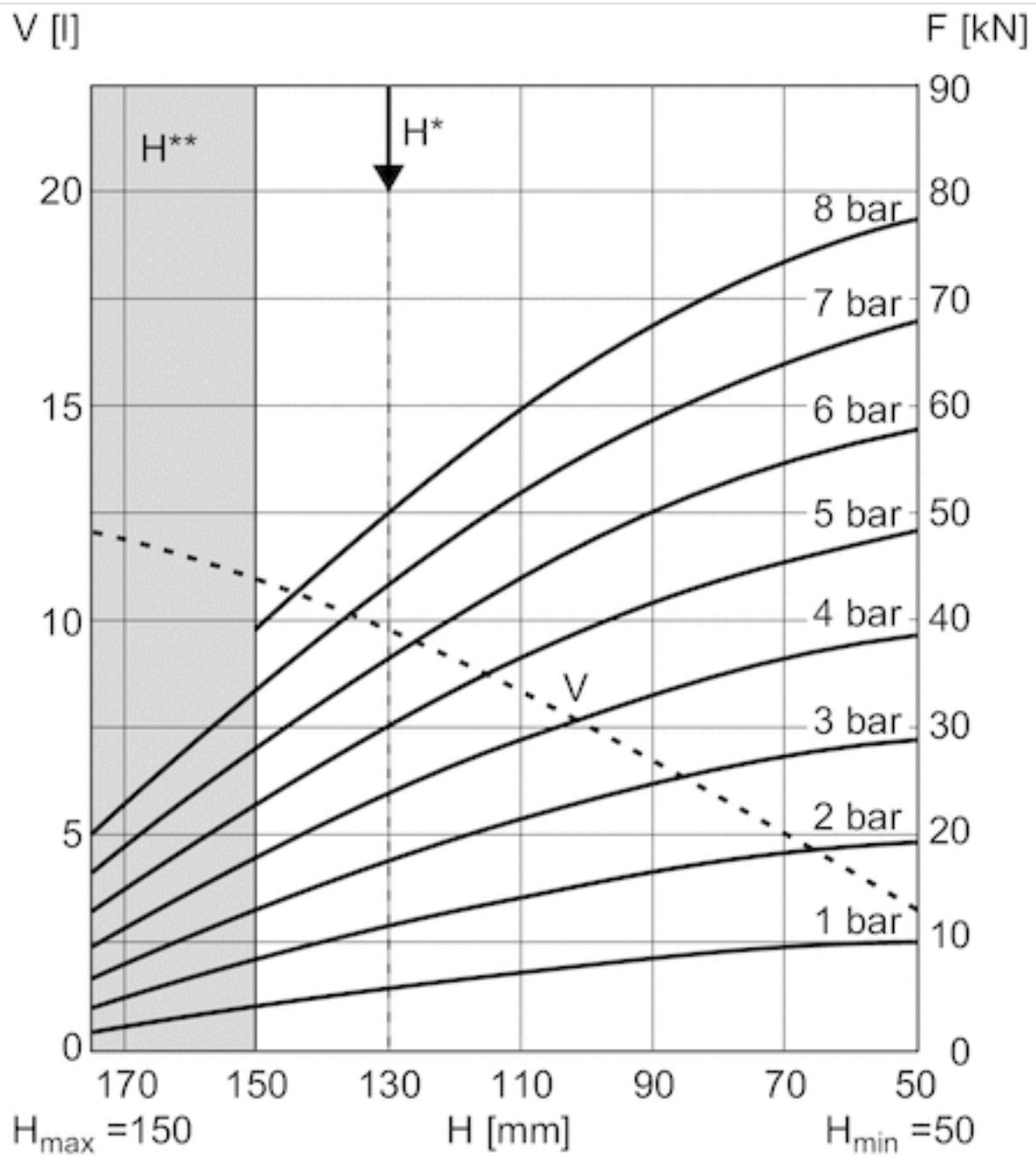
H = height

H^* = recommended operating height for vibration isolation

H^{**} = use permitted only upon approval by AVENTICS

1 kN = 1000 N

Force-displacement diagram, R412020589



V = volume

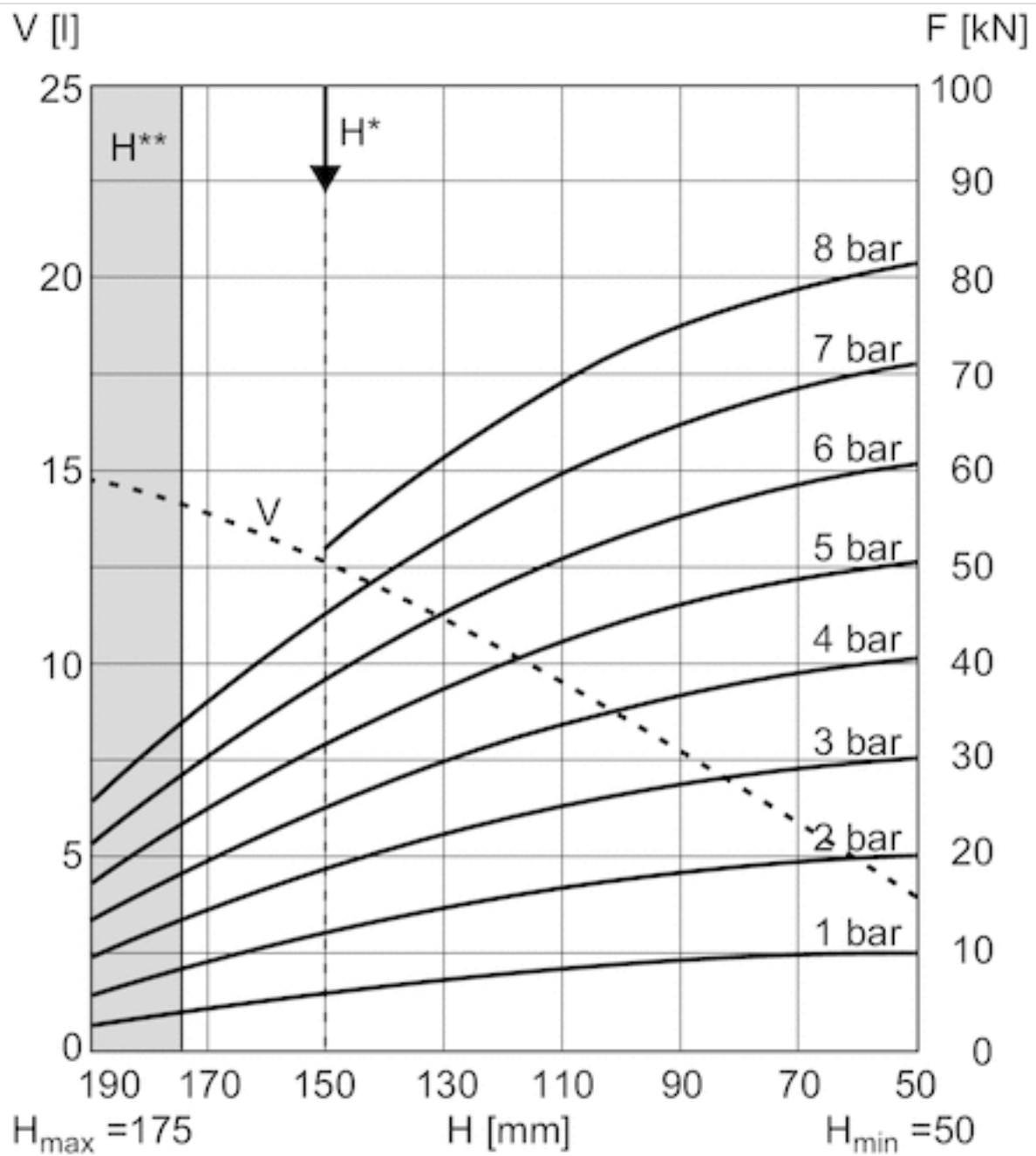
H = height

H* = recommended operating height for vibration isolation

H** = use permitted only upon approval by AVENTICS

1 kN = 1000 N

Force-displacement diagram, R412020590



V = volume

H = height

H^* = recommended operating height for vibration isolation

H^{**} = use permitted only upon approval by AVENTICS

1 kN = 1000 N

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