

Characteristics to VDI 3290		Pressures quoted as gauge pressure	
Characteristics	Symbol	Unit	Description
General Features			
Type			Spool valve
Mounting			2 screws M5
Tube connection			Thread
Port size			G1/8; 7.4 deep
Weight (mass)		kg	0.162
Installation			In any position
Ambient temperature range	ϑ_{\min} ϑ_{\max}	°C	-10 +60
Medium temperature range	ϑ_{\min} ϑ_{\max}	°C	-10 +70
Medium			Filtered compressed air
Lubrication			With or without oil mist lubrication ¹⁾
Pneumatic Characteristics			
Nominal pressure	p_n	bar	6
Operating pressure range	p_{\min} p_{\max}	bar bar	0 10
Nominal flow	Q_N	l/min	450
Actuation			
Manual control			Direct
Stroke		mm	4.5
Actuation force	F_b	N	Type S9311-1/8: 7 Type S9311RF-1/8: 10

¹⁾ We recommend the use of mineral oil type VG 32 to ISO 3448

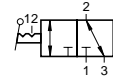
3/2 Way Valve

G1/8

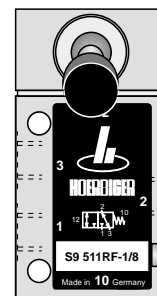
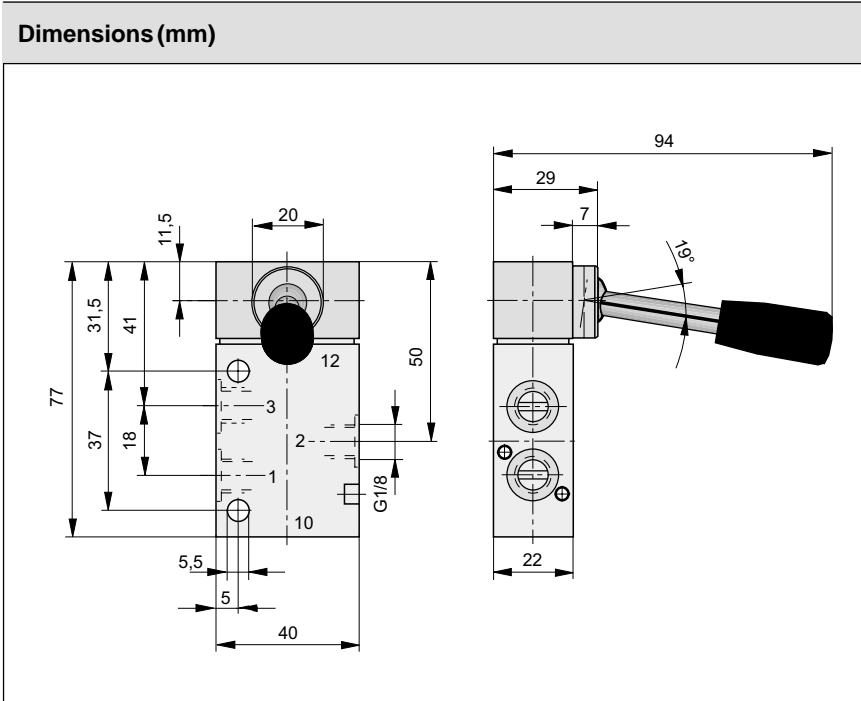
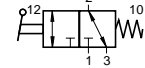
Actuation: Hand lever

Series S9

S9311-1/8



S9311RF-1/8



For product group list see 3.42.001E

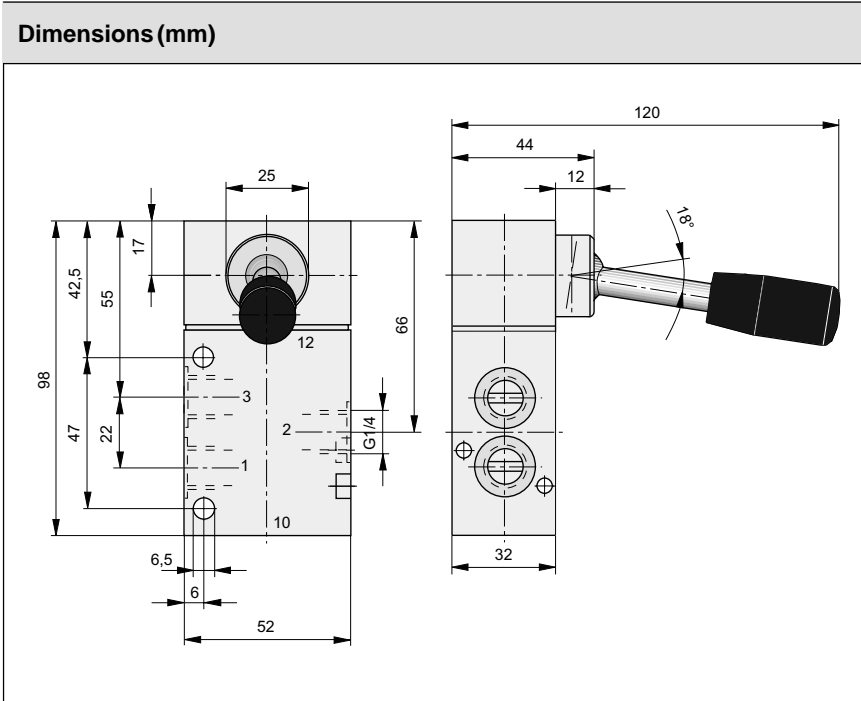
Order Instructions:
 S9311-1/8 PA 10293 (both switch positions indexed)
 S9311RF-1/8 PA 10294 (with spring return)

Data Sheet No. 3.42.002E



Characteristics to VDI 3290		Pressures quoted as gauge pressure	
Characteristics	Symbol	Unit	Description
General Features			
Type			Spool valve
Mounting			2 screws M6
Tube connection			Thread
Port size			G1/4; 11 deep
Weight (mass)		kg	0.37
Installation			In any position
Ambient temperature range	ϑ_{\min} ϑ_{\max}	°C	-10 +60
Medium temperature range	ϑ_{\min} ϑ_{\max}	°C	-10 +70
Medium			Filtered compressed air
Lubrication			With or without oil mist lubrication ¹⁾
Pneumatic Characteristics			
Nominal pressure	p_n	bar	6
Operating pressure range	p_{\min}	bar	0
	p_{\max}	bar	10
Nominal flow	Q_N	l/min	1300
Actuation			
Manual control			Direct
Stroke		mm	6.5
Actuation force	F_b	N	Type S9311-1/4: 10 Type S9311RF-1/4: 15

¹⁾ We recommend the use of mineral oil type VG32 to ISO 3448



For product group list see 3.52.001E

Order Instructions:
 S9311-1/4 PA 12708 (both lever positions indexed)
 S9311RF-1/4 PA 12709 (with spring return)

Data Sheet No. 3.52.002E

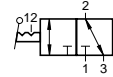
3/2 Way Valve

G1/4

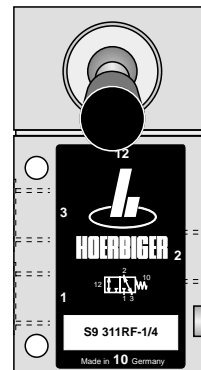
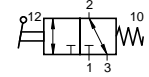
Actuation: Hand lever

Serie S9

S9311-1/4



S9311RF-1/4



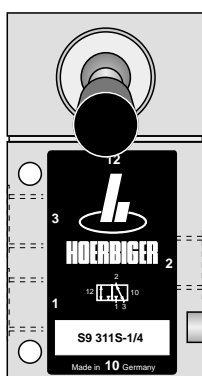
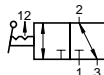
3/2 Way Valve

G1/4

Actuation:
Safety hand lever

Series S9

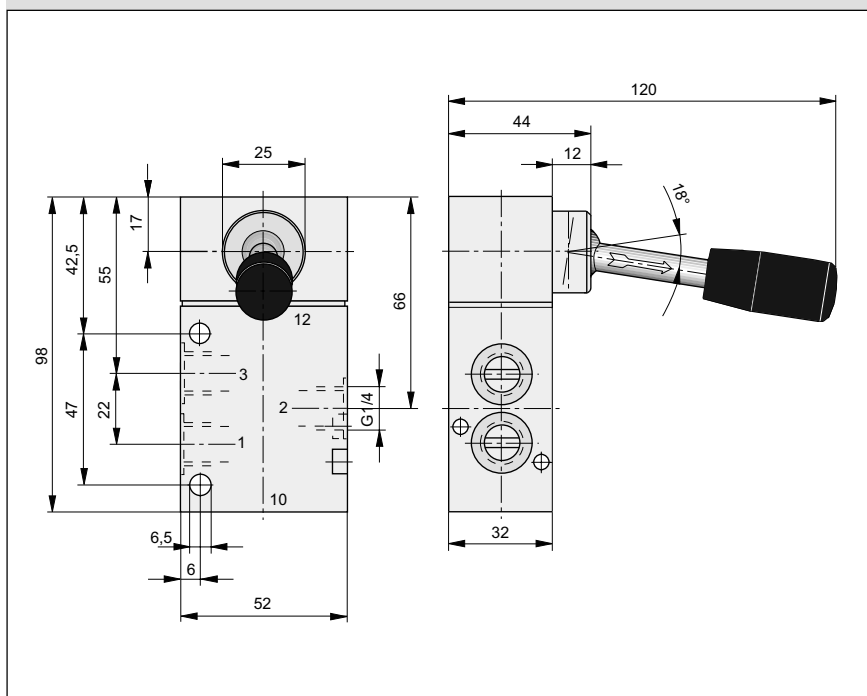
S9311S-1/4



Characteristics to VDI 3290		Pressures quoted as gauge pressure		
Characteristics	Symbol	Unit	Description	
General Features				
Type			Spool valve	
Mounting			2 screws M6	
Tube connection			Thread	
Port size			G1/4; 11 deep	
Weight (mass)		kg	0.37	
Installation			In any position	
Ambient temperature range	ϑ_{\min} ϑ_{\max}	°C °C	-10 +60	Note: When using below freezing point (°C) it is necessary to consult us.
Medium temperature range	ϑ_{\min} ϑ_{\max}	°C °C	-10 +70	
Medium				Filtered compressed air
Lubrication				With or without oil mist lubrication ¹⁾
Pneumatic Characteristics				
Nominal pressure	p_n	bar	6	
Operating pressure range	p_{\min}	bar	0	
	p_{\max}	bar	10	
Nominal flow	Q_N	l/min	1300	
Actuation				
Manual control			Direct	
Stroke		mm	6.5	
Actuation force	F_b	N	10	

¹⁾ We recommend the use of mineral oil type VG32 to ISO 3448

Dimensions (mm)



For product group list see 3.52.001E

Order Instruction:
S9311S-1/4 PA 12710 (both switching positions secured)

Data Sheet No. 3.52.003E



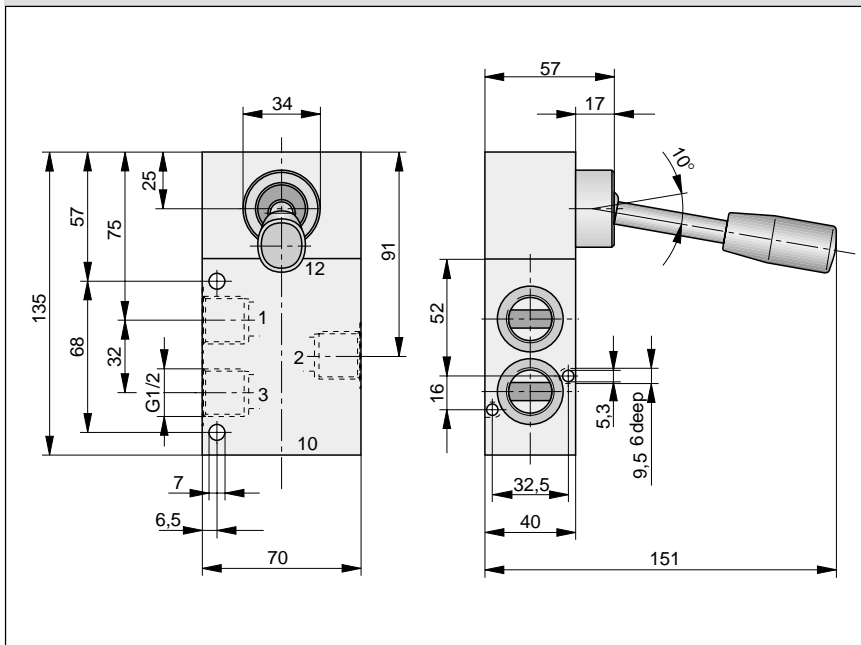
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Characteristics to VDI 3290		Pressure quoted as gauge pressure	
Characteristics	Symbol	Unit	Description
General Features			
Type			Spool valve
Mounting			2 screws M6
Tube connection			Thread
Port size			G1/2; 16 deep
Weight (mass)		kg	0.9
Installation			In any position
Ambient temperature range	ϑ_{\min} ϑ_{\max}	°C °C	-10 +60
Medium temperature range	ϑ_{\min} ϑ_{\max}	°C °C	-10 +70
Medium			Filtered compressed air
Lubrication			With or without oil mist lubrication ¹⁾
Pneumatic Characteristics			
Nominal pressure	p_n	bar	6
Operating pressure range	p_{\min} p_{\max}	bar bar	0 10
Nominal flow	Q_N	l/min	3500
Actuation			
Manual control			Direct
Stroke		mm	9.4
Actuating force	F_b	N	Type S9311(S)-1/2: 15 Type S9311RF-1/2: 40

¹⁾ We recommend mineral oil of the viscosity class VG32 to ISO 3448

Dimensions (mm)



For product group list see 3.53.001E

Order Instructions:

S9311-1/2 PA 16404 (both switching positions indexed)
S9311RF-1/2 PA 16405 (with spring return)
S9311S-1/2 PA 16406 (secured in 2 switching positions)

Data Sheet No. 3.53.002E

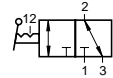
3/2 Way Valve

G1/2

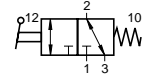
Actuation: Hand lever

Series S9

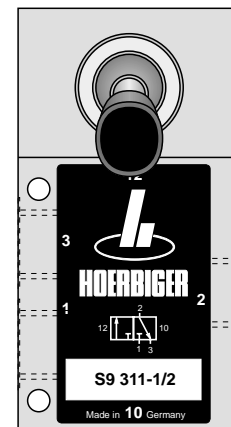
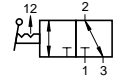
S9311-1/2



S9311RF-1/2



S9311S-1/2



HOERBIGER

ORIGA

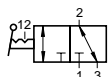
3/2 Way Valve

G1/2

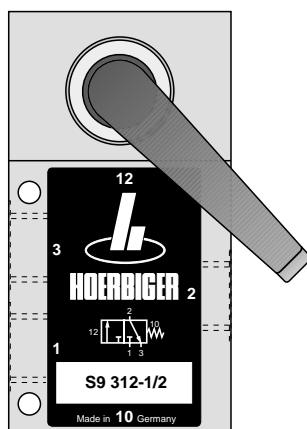
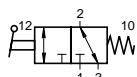
Actuation: Rotary Lever

Series S9

S9 312-1/2

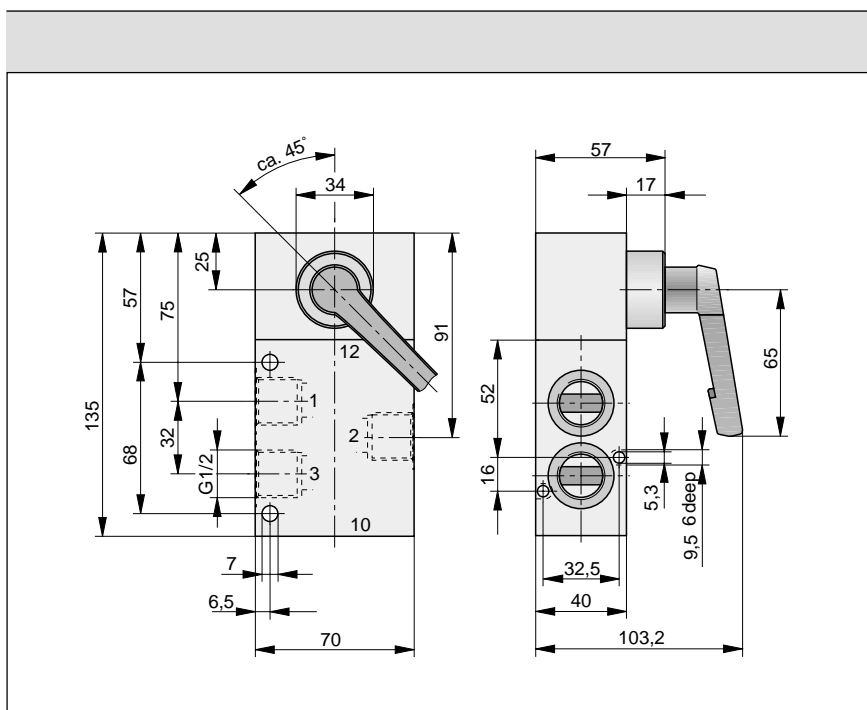


S9 312RF-1/2



Characteristics to VDI 3290		Pressure quoted as gauge pressure		
Characteristics	Symbol	Unit	Description	
General Features				
Type			Spool valve	
Mounting			2 screws M6	
Tube connection			Thread	
Port size			G1/2; 16 deep	
Weight (mass)		kg	0.95	
Installation			In any position	
Ambient temperature range	ϑ_{\min} ϑ_{\max}	°C °C	-10 +60	Note: When using below freezing point (°C), it is necessary to consult us.
Medium temperature range	ϑ_{\min} ϑ_{\max}	°C °C	-10 +70	
Medium				Filtered compressed air
Lubrication				With or without oil mist lubrication ¹⁾
Pneumatic Characteristics				
Nominal pressure	p_n	bar	6	
Operating pressure range	p_{\min} p_{\max}	bar bar	0 10	
Nominal flow	Q_N	l/min	3500	
Actuation				
Manual control			Direct	
Stroke		mm	9.4	
Actuating force	F_b	N	Type S9 312-1/2: 5 Type S9 312RF-1/2: 15	

¹⁾ We recommend mineral oil of the viscosity class VG32 to ISO 3448



For product group list see 3.53.001E

Order Instructions:
 S9 312-1/2 PA 16407 (both switching positions indexed)
 S9 312RF-1/2 PA 16408 (with spring return)

Data Sheet No. 3.53.003E



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