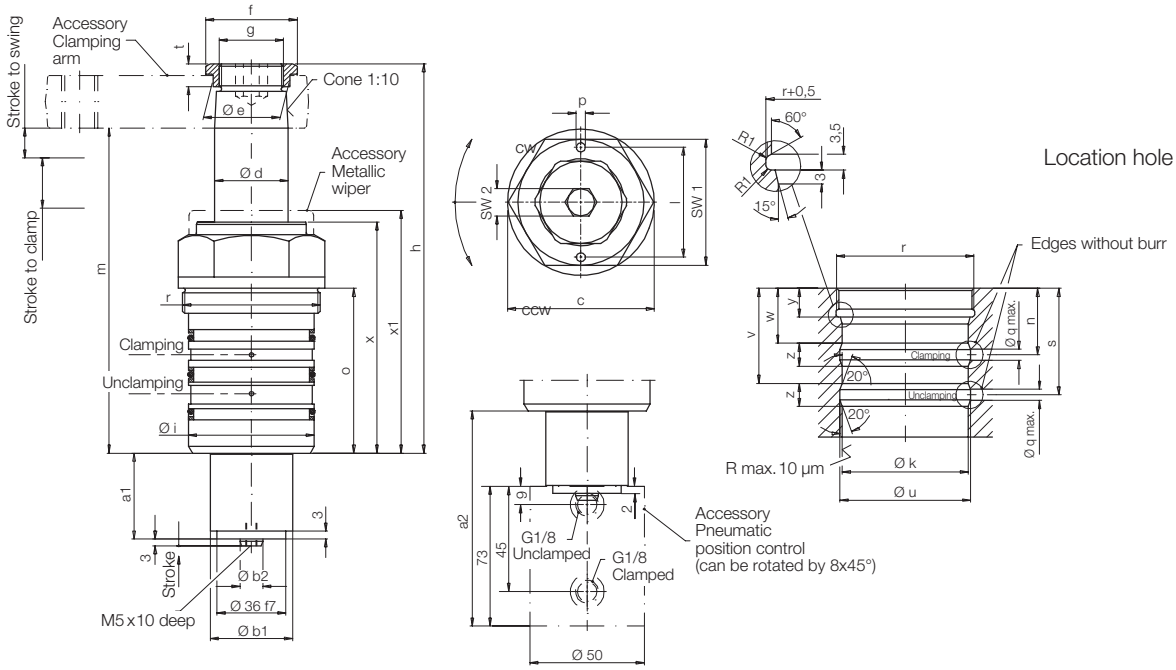


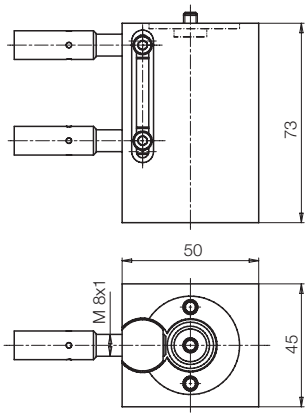
Stroke to clamp	[mm]	22	20
Stroke to swing	[mm]	13	18
Total stroke	[mm]	35	38
Operating pressure to swing, min.	[bar]	30	30
Max. oil flow rate	[cm³/s]	20	55
Oil to clamp	[cm³]	15.8	43.8
Oil to return	[cm³]	41.2	114.2
a1	[mm]	38	41
a2	[mm]	108	112
Ø b1	[mm]	36	45
Ø b2 f7	[mm]	10	12
Ø c	[mm]	64	100
Ø d	[mm]	32	50
Ø e	[mm]	33.5	55.5
f	[mm]	40	68
g	[mm]	M 28x1.5	M 45x1.5
h	[mm]	171	209
Ø i f7	[mm]	55	85
Ø k H7	[mm]	55	85
l	[mm]	-	80
m -1	[mm]	143	169
n	[mm]	29	41
o	[mm]	72	109
Ø p / deep	[mm]	-	8 / 9
Ø q max.	[mm]	5	6
r	[mm]	M 60x1.5	M 90x2
s	[mm]	46.5	64
t	[mm]	10	12
Ø u	[mm]	57	87
v	[mm]	41.5	59
w	[mm]	24	36
x	[mm]	101	124
x1	[mm]	106	129
y	[mm]	12.5	20.5
z	[mm]	10	10
SW 1	[mm]	55	95
SW 2	[mm]	12	17

	Part-no.	Part-no.
Clockwise rotation 90°	**1895-101-VMH35**	**1897-101-VMH38**
Counterclockwise rotation 90°	**1895-201-VMH35**	**1897-201-VMH38**
0 degree	**1895-241-VMH35**	**1897-241-VMH38**

Accessories		
Pneumatic position control, complete	**0353-808**	**0353-810**
Electrical position monitoring		
– without switch	**0353-815**	**0353-813**
– with standard switch	**0353-814**	**0353-811**
Metallic wiper, complete	**0341-100**	**0341-102**

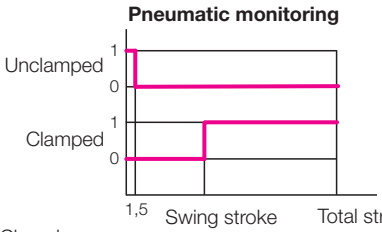
Clamping force diagram see data sheet B 1.892, pg. 2 – other accessories see data sheet B 1.892, pg. 4
Further proximity switches see data sheet B 1.552, pg. 2

Accessory:
Electrical position monitoring



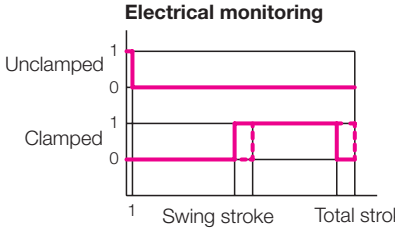
Function charts

Pneumatic monitoring



1 = Closed
0 = Passage

Electrical monitoring



Key for available angles of rotation

Angle of rotation (±1°)	Part-no.
90°	**189X-X0X-VMHXX**
60°	**189X-X2X-VMHXX**
45°	**189X-X3X-VMHXX**