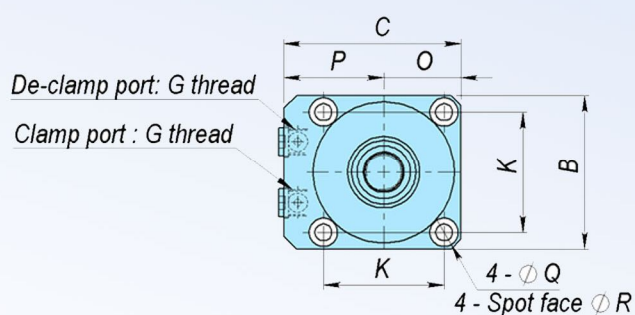




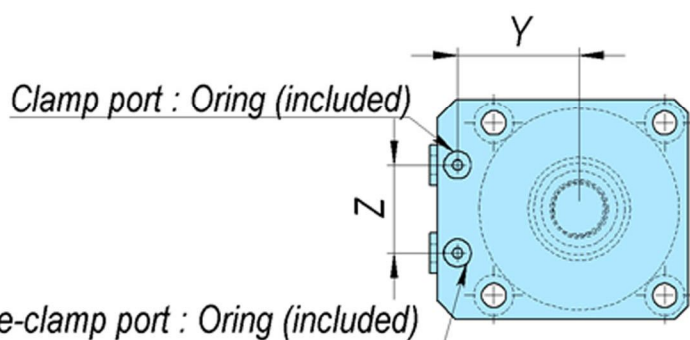
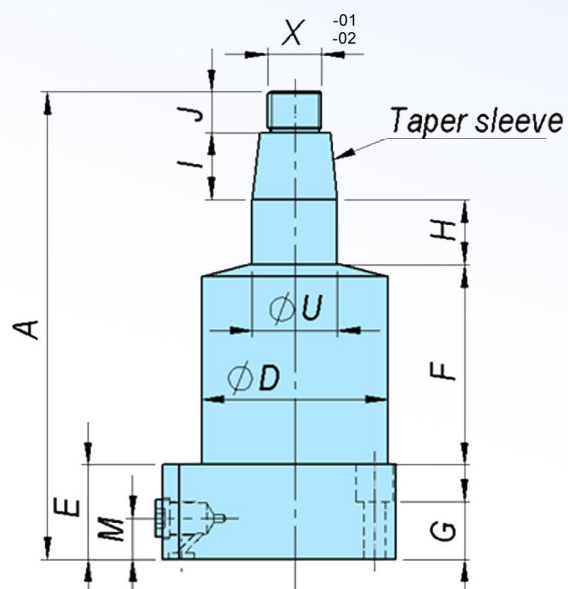
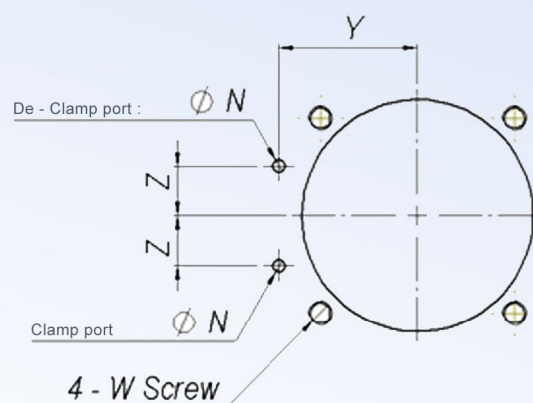
Features

- ✱ Min/max Operating pressure 10 / 70 bar
- ✱ Large clamping range
- ✱ Cylinder swing direction available clockwise (RH) & counter clockwise (LH)
- ✱ Double action range
- ✱ 360° adjustable arm location
- ✱ Arm swing will be $90^{\circ} \pm 1^{\circ}$

✱ Outline Dimension



✱ Machining Dimension



KNOW HOW TO ORDER

- 1 Bottom mounting
- 2 Body Size
- 3 Type
- 4 Piping Method (M=Manifold type, P=Piping type)
- 5 Swing direction (L=Left, R=Right)
- 6 Angle for swing

HS B 048 0 M P L R 90

1 2 3 4 5 6

Dimension Table

Model No.	HSB0360 M L P R 90	HSB0400 M L P R 90	HSB0480 M L P R 90	HSB0550 M L P R 90	HSB0650 M L P R 90	HSB0750 M L P R 90	HSB0900 M L P R 90	HSB1050 M L P R 90
A	95	111	122	137.5	145	171.5	185	243
B	40	45	52	60	70	80	95	120
C	49	54	61	69	81	92	107	127
ØD	Ø36	Ø40	Ø48	Ø55	Ø65	Ø75	Ø90	Ø105
E	25	25	28	28	30	37	40	50
F	39.5	50	52	59	63	71	74	99
G	18	17	18.5	17	18	22	22	24.5
H	14.5	15	16	19	20	23.5	25	30.5
I	9	12	14	20	20	26	32	387
J	7	9	12	12	12	14	14	17
K	31.5	34	40	47	55	63	75	88
M	11	11	11	11	12	12	16	17
N	3	3	3	3	3	3	3	4
O	20	22.5	26	30	35	40	47.5	60
P	29	31.5	35	39	46	52	59.5	67
Q	4.5	5.5	5.5	6.6	6.6	9	11	14
R	7.5	9.5	9.5	11	11	14.5	17.5	20
ØU	15	18	22	25	30	36	45	55
X (Nominal x pitch)	M 10 X 1	M 12 X 1.5	M 16 X 1.5	M 16 X 1.5	M 20 X 1.5	M 30 X 1.5	M 36 X 1.5	M 45 X 1.5
Y	23.5	26	30	33.5	39.5	45	52.5	60
Z	16	18	22	24	30	32	37	45
Clamp Port / M- option	G1/8	G1/8	G1/8	G1/8	G1/4	G1/4	G1/4	G1/4
De-clamp Port P- option	G1/8	G1/8	G1/8	G1/8	G1/4	G1/4	G1/4	G1/4
Taper angle	6	6	6	6	6	6	11	11
O-Ring	1BP5	1BP5	1BP5	1BP5	1BP7	1BP7	1BP7	1BP7
BORE	Ø26	Ø28	Ø36	Ø44	Ø50	Ø63	Ø72	Ø80

Specification Table

Model No.	HSB0360 M L P R 90	HSB0400 M L P R 90	HSB0480 M L P R 90	HSB0550 M L P R 90	HSB0650 M L P R 90	HSB0750 M L P R 90	HSB0900 M L P R 90	HSB1050 M L P R 90
CLAMPING FORCE (kN)	2.4	3.3	4.7	6.9	9	13.7	20	28
FULL STROKE	13.5	14.5	15.5	18.5	20	24	26	32
SWING STROKE (90°)	5.5	6.5	7.5	8.5	10	12	14	16
VERTICAL /LOCKING STROKE	8	8	8	10	10	12	12	16
Cyl. Volume Locking cm ³	2.6	2.36	7	13.2	25.2	42.3	102.6	151
Cyl. Volume Release cm ³	4.9	6.38	12.5	20.9	37.1	68.7	127.8	199.5
Max. opreating pressure (MPa)	7							
Min opreating pressure (MPa)	1.5							
Design pressure (Mpa)	10							
Temperatur °C	0-70							
Weight kg	0.8	1	1.3	1.8	2.7	4.2	5.5	9

Machining dimention table for mounting :

Model No.	HSB0360 M L P R 90	HLT0400 M L P R 90	HSB0481 M L P R 90	HSB0550 M L P R 90	HSB0650 M L P R 90	HSB0750 M L P R 90	HSB0900 M L P R 90	HSB1050 M L P R 90
Z	16	18	22	24	30	32	37	45
W (Nominal x pitch)	M4 X 0.7	M 5 X 0.8	M 5 X 0.8	M 6 X 1	M 6 X 1	M 8 X 1.25	M 10 X 1.5	M 12 X 1.75
N	Ø3	Ø3	Ø3	Ø3	Ø5	Ø5	Ø5	Ø5
K	31.4	34	40	47	55	63	75	88
Y	23.5	26	30	33.5	39.5	45	52.5	60