



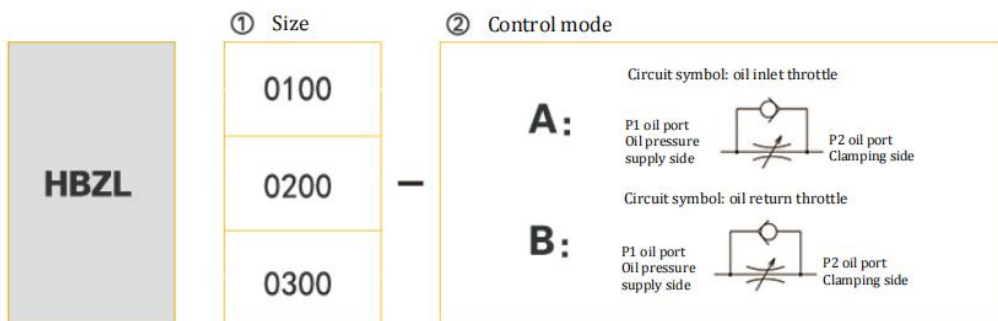
## HBZL

Speed control valve that can be directly installed on the oil cylinder

### Model Representation

HBZL ①-②

(Example: HBZL0100-B)



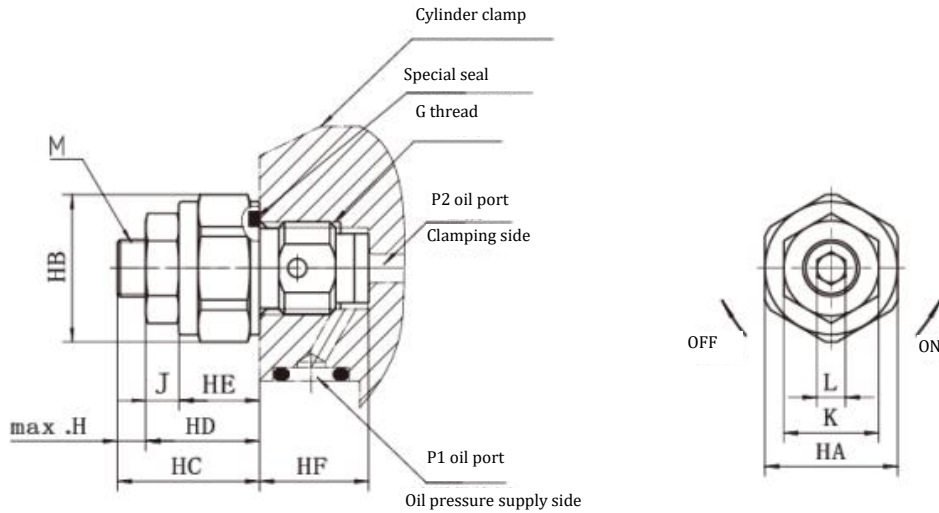
### Specification

Model	HBZL0100-A	HBZL0200-A	HBZL0300-A	HBZL0100-B	HBZL0200-B	HBZL0300-B
Maximum operating pressure	Mpa 7					
Withstand pressure	Mpa 10.5					
Control mode	Oil inlet throttle			Oil return throttle		
RP thread dimension	RP 1/8	RP 1/4	RP 3/8	RP 1/8	RP G1/4	RP 3/8
Starting pressure	Mpa 0.04			0.12		
Maximum runner area	MM <sup>2</sup> 2.6	5.0	11.6	2.6	5.0	10.2
Operating fluid	Equivalent to ISO-VG-32 general hydraulic oil of ISO viscosity grade					
Operating temperature	°C 0~70					
Recommended tightening torque for body	N. m 10	25	35	10	25	35

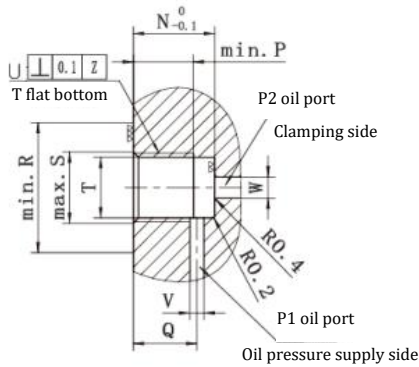
### Precautions:

1. The minimum runner area, when the control side is fully opened, is equal to the maximum runner area in the above table
2. When using, please set the P1 oil port as the oil pressure supply side and the P2 oil port as the clamping side as shown in the figure. Otherwise, flow control will not be possible
3. It is not allowed to re-use the used HBZL (speed control valve) on other cylinders. Otherwise, the metal seal may not be tight due to the difference in the depth of the bottom surface of the RP thread of the cylinder, so that the speed cannot be adjusted.

Overall Dimension



Installation Part Processing Dimension



(mm)

Model	HBZL0100-□	HBZL0200-□	HBZL0300-□
HA	14	18	22
HB	15.5	20	24
HC	15	16	20
HD	12	13	16
HE	8.5	9.5	11
HF	(11.6)	(15.1)	(17.6)
G	G1/8	G1/4	G3/8
H	3	3	4
J	3.5	3.5	5
K	10	10	13
L	3	3	4
M	M6×0.75	M6×0.75	M8×0.75
N	11.5	15	17.5
P	8.5	11※1	13
Q	9	11.5	13
R (plane)	16	20.5	24.5
S	10	13.5	17
T	8.7	11.5	15
U	Rp 1/8	Rp 1/4	Rp 3/8
V	2~3	3~4	4~5
W	2.5~5	3.5~7	4.5~9

Precautions:

1. ▽▽▽ will become the sealing surface, so it is necessary to protect it
2. ▽▽ will become the metal sealing surface of the HBZL end face, so it is necessary to protect it (pay attention when deburring)
3. Do not leave chips, burrs and other foreign objects at the intersection of the processing hole
4. When using, please set the P1 oil port as the oil pressure supply side and the P2 oil port as the clamping side as shown in the figure.
5. When installing plugs and joints with specifications of G thread sold on the market, please set [※1] in the dimension table to 12.5