



WORK GRIPPER

Pull Lock Work Gripper PLS series

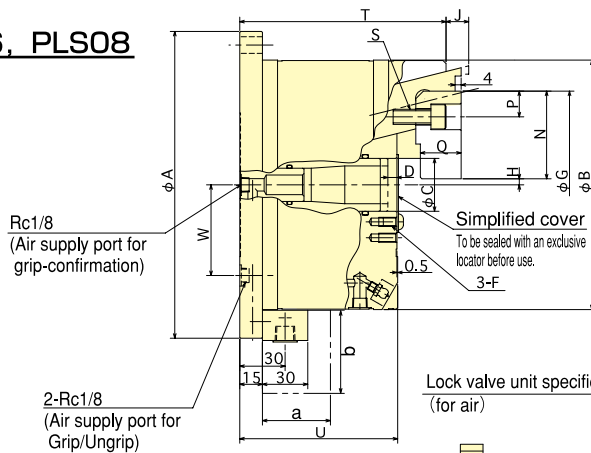
Draw down for steady gripping
Kitagawa's work holding device of M/C system used



- Stable cutting is performed by high precision and high gripping force.
- Optimum for Automated machining due to apply the seating detection.
- Multi specification is also accepted by PLS fitted on existing Multiplate.
- Because of built-in cylinder, low-built, and space saving, PLS broadens machining range.

Dimensional Drawings

PLS06, PLS08



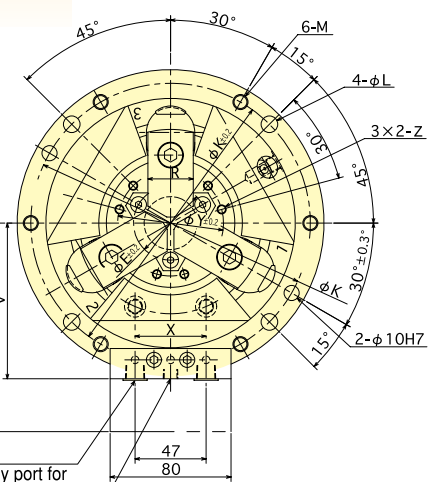
Rc1/8
(Air supply port for grip-confirmation)

2-Rc1/8
(Air supply port for Grip/Ungrip)

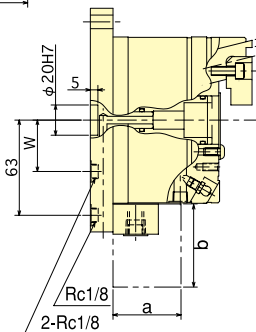
Simplified cover
To be sealed with an exclusive locator before use.

Lock valve unit specification
(for air)

2-Rc1/4
(Air supply port for open/close)
Rc1/8
(Air supply port for grip-confirmation)



PLS04



Rc1/8
2-Rc1/8

Dimensions ※The dimensions of a/b marked are the size of LV-3(Lock-valve).

Dimensions	A (h7)	B (0.0/-0.1)	C (+0.01/0)	Dmin	E	F	G (H6)	Hmax.	Hmin.	Jmax.	Jmin.	K (±0.2)	L	M	N
Model															
PLS04	148	110.1	32	4.5	42	M5×10	84	2.25	0.75	7	1	130	9	M 8	40.5
PLS06	203	165.1	35	6.0	49	M6×12	124	3.75	1.25	15	5	185	11	M10	59.5
PLS08	248	210.1	55	6.0	71	M6×12	154	3.75	1.25	17	7	230	11	M10	74.5

Dimensions	P	Q	R	S	T	U	V	(V)	W	X	Y	Z	a	b
Model														
PLS04	9.5	14	20	M 6	103	85.5	75.5	110.5	34	33	62	M5×10	45	55
PLS06	17	27	30	M10	136.5	104.5	103	138	60	47	70	M6×12	45	55
PLS08	20.5	31	35	M12	155.5	118.5	125.5	160.5	80	47	95	M6×12	45	55

Specifications ※Clamping force varies in clamping state for jaws and workpiece. ※Air Consumption = Under Pressure 0.6MPa Plunger Stroke per 10mm

Specifications	Plunger stroke mm	Jaw stroke (diameter) mm	Gripping force kN (kgf)				Max. allowable pressure MPa (kgf/cm ²)		Min. allowable pressure MPa (kgf/cm ²)	Gripping diameter mm		Weight (with standard soft jaw) kg	Air Consumption (N/l)	
			Pneumatic at 0.6MPa (6kgf/cm ²)		Hydraulic at 1.3MPa (13kgf/cm ²)		Pneumatic	Hydraulic		Max.	Min.			
Model			Use of soft jaw	Use of hardened jaw	Use of soft jaw	Use of hardened jaw								
PLS04	6	3	6.7(683)	7.4(754)	16(1631)	17.4(1774)					φ60	φ4	7.4	0.22
PLS06	10	5	18.5(1886)	22(2243)	40(4078)	45(4588)	0.7(7)	1.3(13)	0.2(2)		φ100	φ7	18	0.54
PLS08	10	5	37(3772)	40(4078)	80(8157)	84(8565)					φ130	φ7	33	0.93