

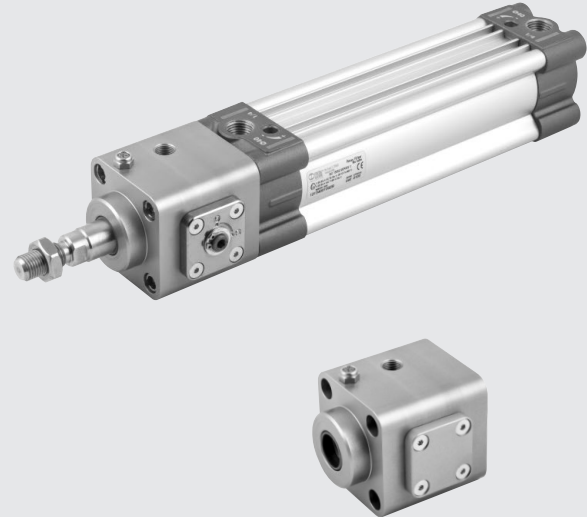
ACCESSORIES FOR ISO 15552 CYLINDERS: "SECURE LOCK" ROD LOCK

A new series of in-line locking devices by Metal Work with superior characteristics. Performances are guaranteed by a system of springs and conical sliding and ball bearings which, combined with carefully selected materials, ensure reliable and accurate locking of the system, which can be released by supplying air through the relevant inlet. A version with manual release is also available.

When "Secure Lock" devices are fitted to ISO 15552 cylinders, the piston rod can be locked in position when the system is turned off or an emergency stop occurs.

"Secure Lock" can withstand occasional situations of dynamic locking. It locks the rod and prevents it from moving. Since negligible play is created, it is ideal for high-precision applications.

With the optional cam-operated manual release function, the rod lock can be disengaged mechanically merely by rotating a pin using a standard Allen wrench. When the pin is released, it automatically returns to the "rod locked" position.

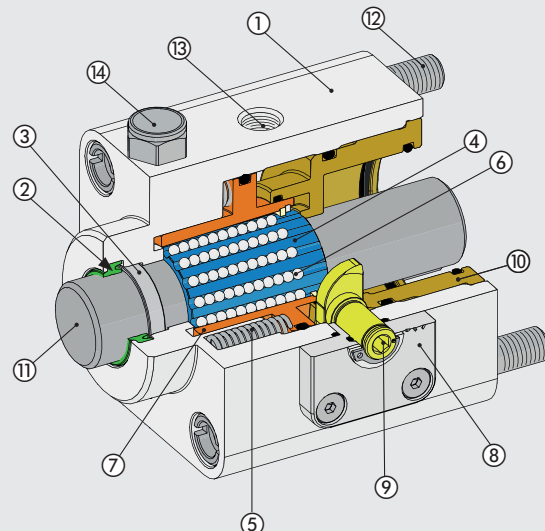


TECHNICAL DATA

Pilot pressure	bar	5 to 10						
	MPa	0.5 to 1						
Temperature range	°C	-10 to +80						
	°F	14 to 176						
Operation		NC - bidirectional						
Mechanics		Locking gripper controlled by a bearing ball piston.						
Locking force	Ø	32	40	50	63	80	100	125
	N	650	1100	1600	2500	4000	6300	8700
Notes		The piston rod must be clean and dry. During assembly, do not rotate the piston rod if the Secure Lock device is locked.						

COMPONENTS

- ① BODY: anodized aluminium
- ② WIPER RING: polyurethane
- ③ GUIDE RING: technopolymer
- ④ GRIPPER: hardened steel
- ⑤ SPRINGS: spring steel
- ⑥ BALLS: hardened steel
- ⑦ PISTON: hardened steel
- ⑧ MANUAL RELEASE PLATE: treated aluminium
- ⑨ MANUAL RELEASE PIN: hardened steel
- ⑩ PLUG: anodized aluminium
- ⑪ FALSE ROD: steel
- ⑫ TIE RODS: stainless steel
- ⑬ AIR SUPPLY FOR RELEASE
- ⑭ SILENCER: nickel-plated brass with stainless steel wire

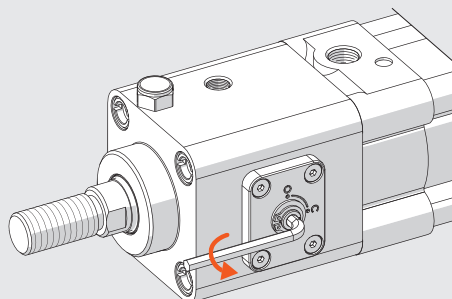


MANUAL RELEASE

In the versions equipped with manual control it is possible to use an hex key to temporarily unlock the device.

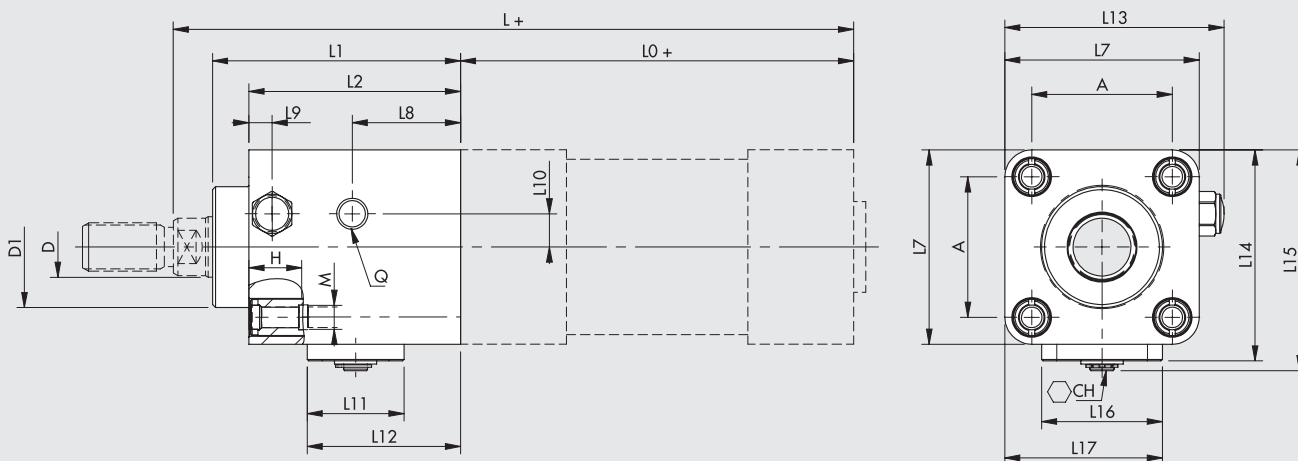
The hex key must be inserted in the hexagonal seat of the pin for the manual control (component 9 in the list of components) and used for the rotation of the same as shown in the figure.

Once released, the pin will automatically return to its initial position.



DIMENSIONS

+ = ADD STROKE



VERSION WITH MANUAL CONTROL

Code	Ø	L1	L2	L7	L8	L9	L10	L11	L12	L13	L14	L15	L16	L17	D	D1	A	H	M	Q	CH	L0	L	Weight [g]
W5010010102	32	58	48	46	25.2	9.5	8	30	41.2	50.7	51.5	54.3	28	37	12	30	32.5	14.5	M6	M5	2.5	94	162	307
W5010010103	40	65	55	54	26.9	6	8.5	32	43.9	58.7	59.5	63	33	43.5	16	35	38	14.5	M6	G1/8	4	105	180	455
W5010010104	50	82	70	64.3	35.8	7.7	11	32	50.7	72.5	69.8	73	40	52.2	20	40	46.5	17.5	M8	G1/8	4	106	200	860
W5010010105	63	82	70	76	34.6	8.7	16.3	32	50.5	84.2	81.5	84.7	40	58	20	45	56.5	17.5	M8	G1/8	4	121	215	1100
W5010010106	80	110	90	94	41.3	14.7	20.5	47	66.1	102.2	103	106.3	65	79.5	25	45	72	21.5	M10	G1/8	6	128	251	2350
W5010010107	100	115	100	111	49.8	18.2	25	47	73.6	119.2	120	123.3	65	88.5	25	55	89	21.5	M10	G1/8	6	138	266	3490
W5010010108	125	167	122	135	67.5	23	30	54	90.2	143.2	148	151.8	84	109.5	32	60	110	25.5	M12	G1/8	10	160	347	6370

VERSION WITHOUT MANUAL CONTROL

Code	Ø	L1	L2	L7	L8	L9	L10	L11	L12	L13	L14	L15	L16	L17	D	D1	A	H	M	Q	CH	L0	L	Weight [g]
W5010020102	32	58	48	46	25.2	9.5	8	30	41.2	50.7	51.5	-	28	37	12	30	32.5	14.5	M6	M5	-	94	162	303
W5010020103	40	65	55	54	26.9	6	8.5	32	43.9	58.7	59.5	-	33	43.5	16	35	38	14.5	M6	G1/8	-	105	180	446
W5010020104	50	82	70	64.3	35.8	7.7	11	32	50.7	72.5	69.8	-	40	52.2	20	40	46.5	17.5	M8	G1/8	-	106	200	846
W5010020105	63	82	70	76	34.6	8.7	16.3	32	50.5	84.2	81.5	-	40	58	20	45	56.5	17.5	M8	G1/8	-	121	215	1080
W5010020106	80	110	90	94	41.3	14.7	20.5	47	66.1	102.2	103	-	65	79.5	25	45	72	21.5	M10	G1/8	-	128	251	2305
W5010020107	100	115	100	111	49.8	18.2	25	47	73.6	119.2	120	-	65	88.5	25	55	89	21.5	M10	G1/8	-	138	266	3430
W5010020108	125	167	122	135	67.5	23	30	54	90.2	143.2	148	-	84	109.5	32	60	110	25.5	M12	G1/8	-	160	347	6260