

	Art. #	Built-in dwg	Plug assembly	Maintenance
<b>built-up cassette</b>	752110 X10	---	751 SPB	752110 WMA
	all types 752110 marked with X10			
<b>built-in cassette</b>	752160 X10	752950 EB	751 SPB	752160 WMA
	all types 752160 marked with X10			
<b>built-in cylinder</b>	752150 X10	751902 EB	751 SPB	752150 WMA
	all types 752150 marked with X10			

Definitions	Value	Unit
Pull-in force	5'000	N
Boundary pull-in force	4'000	N
Retention force	40'000	N
Releasing operating pressure (min. - max.)	60 - 70	bar
Repeat accuracy	0.01	mm
Clamping cycles until maintenance	1'000'000	cycles
Clamping cycles until pull-in force is checked	200'000	cycles
Oil volume until released (with airblast)	26	cm <sup>3</sup>
Oil volume until released (without airblast)	28	cm <sup>3</sup>
* Time until released (when directly connected)	2.5	sec
Pre-centering (automation)	+/- 1.5	mm
Pre-centering (manual)	+/- 4	mm
Noise (clamping process)	ca. 20	dBA
Clamping time	unlimited	---
Hydraulic medium	HLP ISO VG46	---
Piston position monitoring (by geartype flowmeter)	possible	---
Secured, no release without pressure medium	yes	---

Requirments for the environment	Value	Unit
Ambient temperature by operating	15 - 40	°C
Ambient temperature when storing	15 - 30	°C
Contamination & purity class hydraulic oil	16/13/10	ISO4406
Contamination & purity class pneumatics	7:4:4	ISO8573-1
Media supply-Ø	min. Ø5	mm per cassette

\* Depending on the media supply-Ø, cable lenght and quantity of cylinders/cassettes