



Product information

Specimen holders

for threaded-end and shouldered-end specimens and screws





Specimen holders for hydraulic grips

	14-074-007	14-074-005	14-074-006	14-018-300
Capacity	250kN	400kN	600kN	1200kN
Temperature	Room temperature			
Connection	Adaption for hydraulic grip			
	100.20/100.21 250.20/250.21	400.20/ 400.21	600.20/ 600.21	1200.20/ 1200.21
Dimensions (HxWxD) [mm]	140x260x260	141x429x429	140x200x200	330x190x315
Size	PV75			PV100
Design	bronzed, protective visor			
Weight (1 clamp)	12kg	15.5kg	20kg	40kg



Specimen holders for wedge type grips

	14-074-002	14-074-008
Capacity	250kN	400kN
Temperature	Room temperature	
Connection	AS60 for wedge type grip 14-096-100/14-096-250	AS61 for wedge type grip 14-096-400
	140x200x200	
Dimensions (HxWxD) [mm]	140x200x200	
Size	PV75	
Design	bronzed, protective visor	
Weight (1 clamp)	12kg	14kg



Specimen holders with standard tool connection

	14-095-020	14-095-050	14-074-010	14-074-000
Capacity	20kN	50kN	250kN	600kN
Temperature	Room temperature			
Connection	R20/8	R36/18	R60/3	M64x4
	70x150x150		140x200x200	150x200x200
Dimensions (HxWxD) [mm]	70x150x150		140x200x200	150x200x200
Design	bronzed, protective visor			
Size	PV42		PV75	
Weight (1 clamp)	1kg		8kg	



Specimen holders for the use in temperature chambers

	16-012-902	14-095-091	14-095-092	16-074-010	
Capacity	10kN	50kN		250kN	
Temperature	-150°C to +400°C	-100°C to +400°C		-80°C to +280°C	
Connection	M12	M27x2	R36/18	R60/30	
	49x34x32		70x150x150	Height 84mm, D=Ø86mm	140x200x200
Dimensions (HxWxD) [mm]	49x34x32		70x150x150	Height 84mm, D=Ø86mm	140x200x200
Size	PV42			PV75	
Design	nickel-base alloy	bronzed with protective visor		nickel-plated	
Weight (1 clamp)	1kg	1kg		8kg	



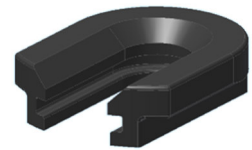
Application:

Specimen holders are suitable for tensile tests on specimens, which cannot be gripped directly with vice or wedge grips due to their size, geometry or composition. The usage of specimen holders in combination with related tools allows testing of **shouldered-end** and **threaded-end specimens** as specified in DIN 50125. Furthermore screws, nuts and combinations of both can be tested accord. to ISO 898-1 and -2. Special designed insertion plates enable wedge loading test on screws. All in all, a huge variety of testing tools like insertion plates, inlay nuts, washer inlays and adaption plates can be utilized for manifold testing purposes.

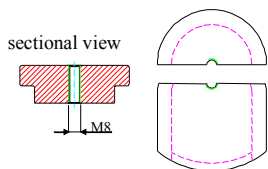
Equipment for adaptation of different insertion plate sizes

Insertion adapter plate:

75mm	For adaption from PV75 to PV42	14-074-050
42mm		

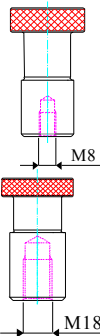
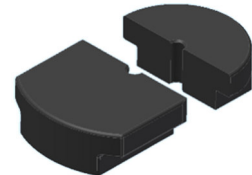


Equipment for threaded-end specimens and screws



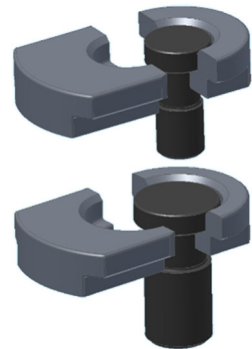
Insertion plates for threaded-end specimens:

M5 to M18 → for PV42	14-095-110 ... 170
M4 to M33 → for PV75	14-074-070 ... 185

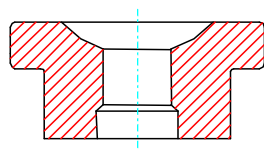


Inlay nuts for threaded-end specimens/screws for:

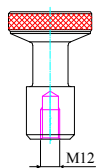
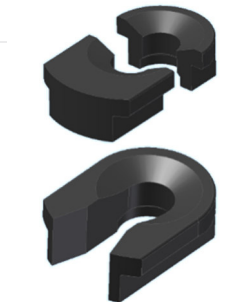
M4 to M16 → for 17/30 use in 14-095-370/14-074-350	14-095-900 ... 908 14-095-955 ... 957
M12 to M18 → for 22/38 use in 14-095-380/14-074-370	14-074-900 ... 903 14-074-920 ... 921
M18 to M30 → for 30/48 use in 14-074-390	14-074-904 ... 912 14-074-951 ... 953



Insertion plates with spherical calottes:

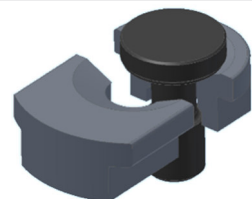


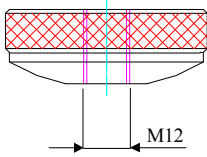
Split insertion plate:	
R30 → PV42	14-095-600
R30, R50, R80 → PV75	14-074-600 ... 602
Slotted insertion plate:	
R30 → PV42	14-095-601
R30, R50, R80 → PV75	14-074-603 ... 605



Spherical inlay nuts (long) for threaded-end specimens/screws for:

M4 to M12 → for R30	14-095-610 ... 617
M12 to M18 → for R50	14-074-610 ... 613
M18 to M30 → for R80	14-074-630 ... 635

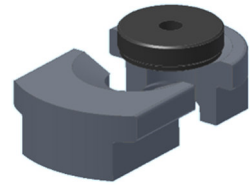




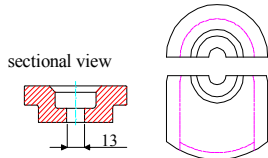
Spherical inlays for threaded-end specimens/screws:

M12 to M18 → for R50 14-017-101 ... 110
M18 to M30 → for R80 14-018-101 ... 110

Attention: These inlays cannot be used in combination with extensometer measurements!

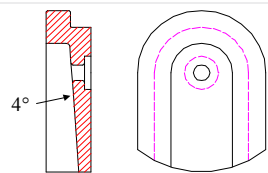
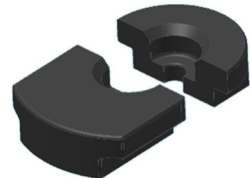


Equipment for screw heads



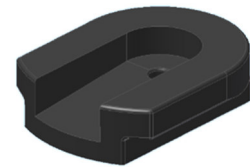
Insertion plates for screw heads:

M4 to M12 → PV42 14-074-200 ... 270
M8 to M30 → PV75 14-074-200 ... 295

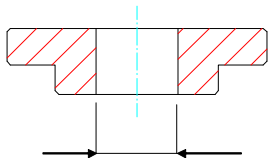


Insertion plates for screw heads for wedge loading:

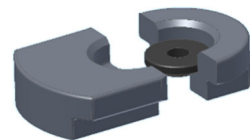
4° to 6° → M4 to M12 → PV42 14-095-510 ... 557
4° to 6° → M8 to M30 → PV75 14-074-510 ... 560



Washer inlays for screw heads:



M4 to M12 → for 17/30 14-095-700 ... 707
use in 14-095-370/14-074-350
M12 to M18 → for 22/38 14-074-700 ... 703
use in 14-095-380/14-074-370
M18 to M24 → for 30/48 14-074-704 ... 707
use in 14-074-390



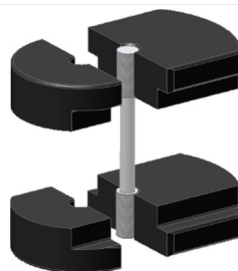
Further tools for PV100 are available on request.

Examples for tool combinations for different test purposes

Testing of shouldered-end specimens with insertion plates



Testing of threaded-end specimens with insertion plates



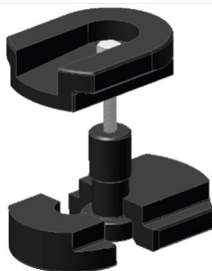
Testing of threaded bolts with insertion plates and inlay nuts



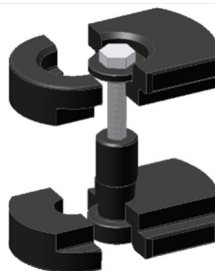
Screw testing with insertion plates



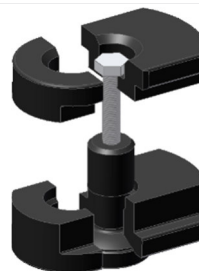
Wedge loading of screws with insertion plates and inlay nuts



Screw testing with washer inlays and inlay nuts



Screw testing with insertion plates and spherical inlay nuts



Screw testing with insertion plates and inlay nuts

