

Valves
Test
Benches

IN TEST WE TRUST

INSTRUMENTS
FOR TEST & CONTROL

think'PC PROGETTI



Made in Italy

IN TEST WE TRUST

Dear customer,
Given the demands of the global market and the cost of raw materials, European valve producers must ensure the absolute quality of their product if they are to keep their market share.

For this reason, your investment in control & testing equipment is critical.

THINK' PC PROGETTI offers a complete range of rigs capable of testing your products according to the most rigorous international standards.

The skill of our technical staff, our flexibility in production, and our quick turnaround on new projects make PC PROGETTI a reliable partner, trusted by the biggest manufacturers in Italy and international groups.

Our technicians have years of background and experience specifically in high pressure equipment, allowing them to quickly install and set up the plant.

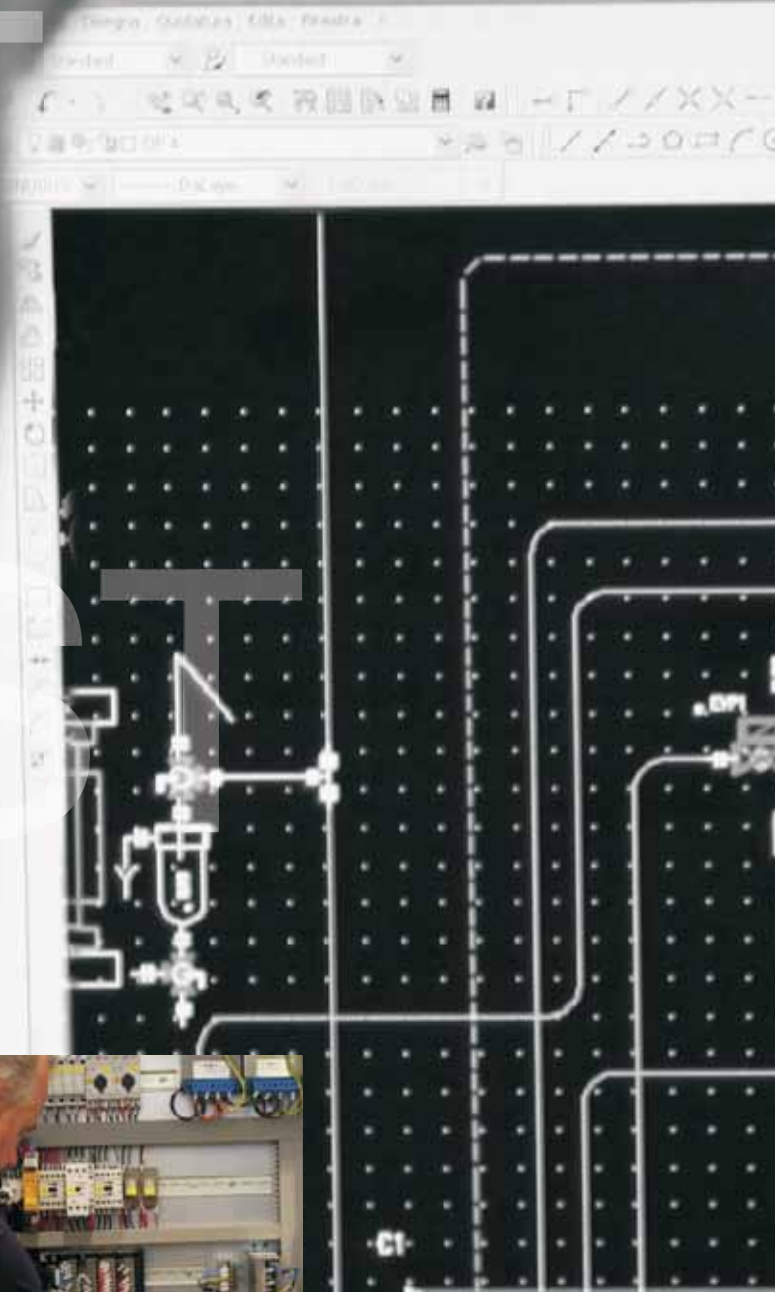
Our product range includes vertical benches, horizontal benches, and single pressurization skids; each unit could be designed according to the customer special request. The automatic benches can be connected to a PC using our proprietary software that allows you to download test data and print out the testing certification so often required today.

Welcome at
THINK' PC PROGETTI
and be our guest!

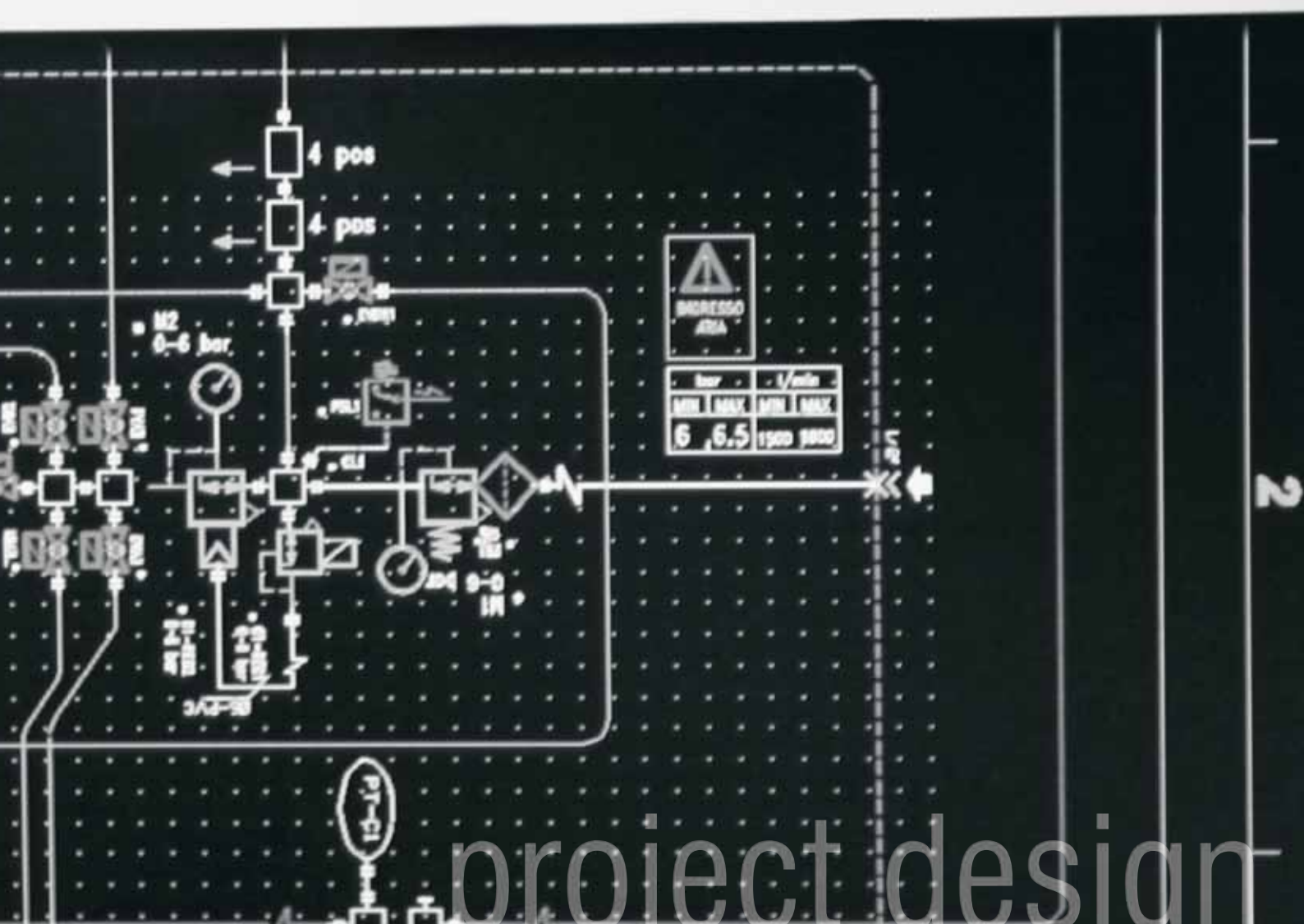


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project design

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metal cutting

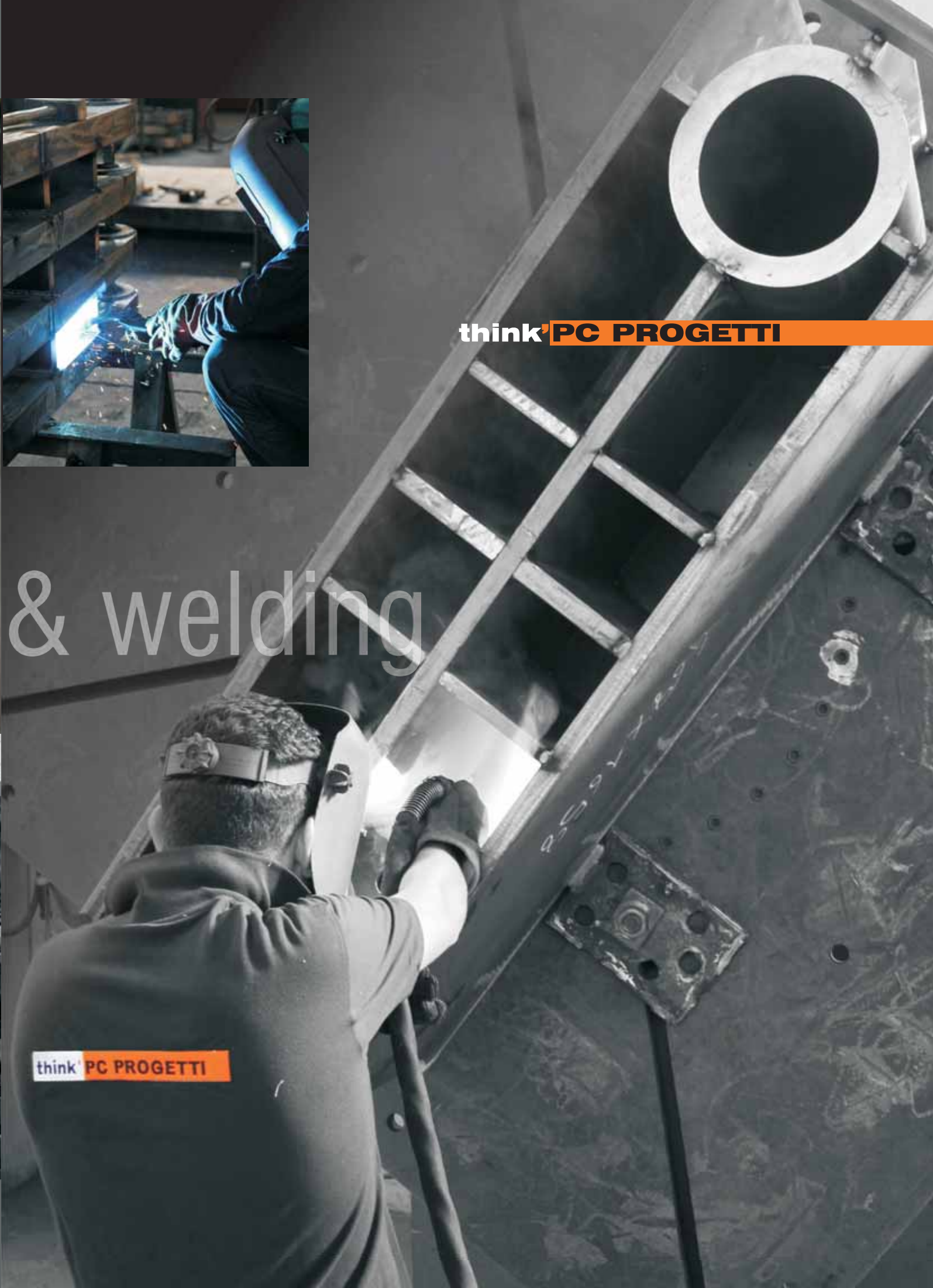




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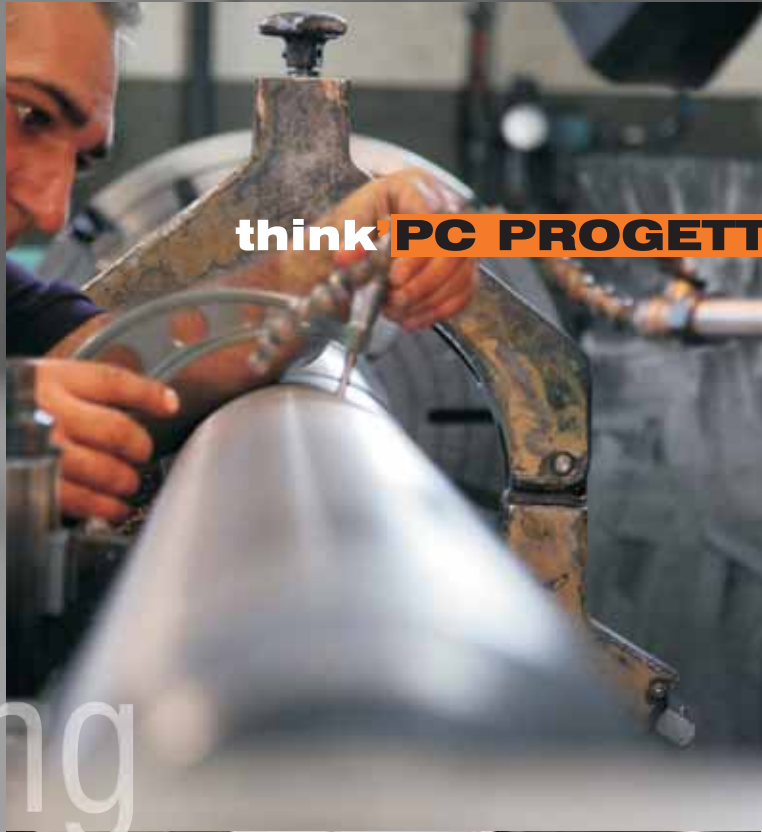
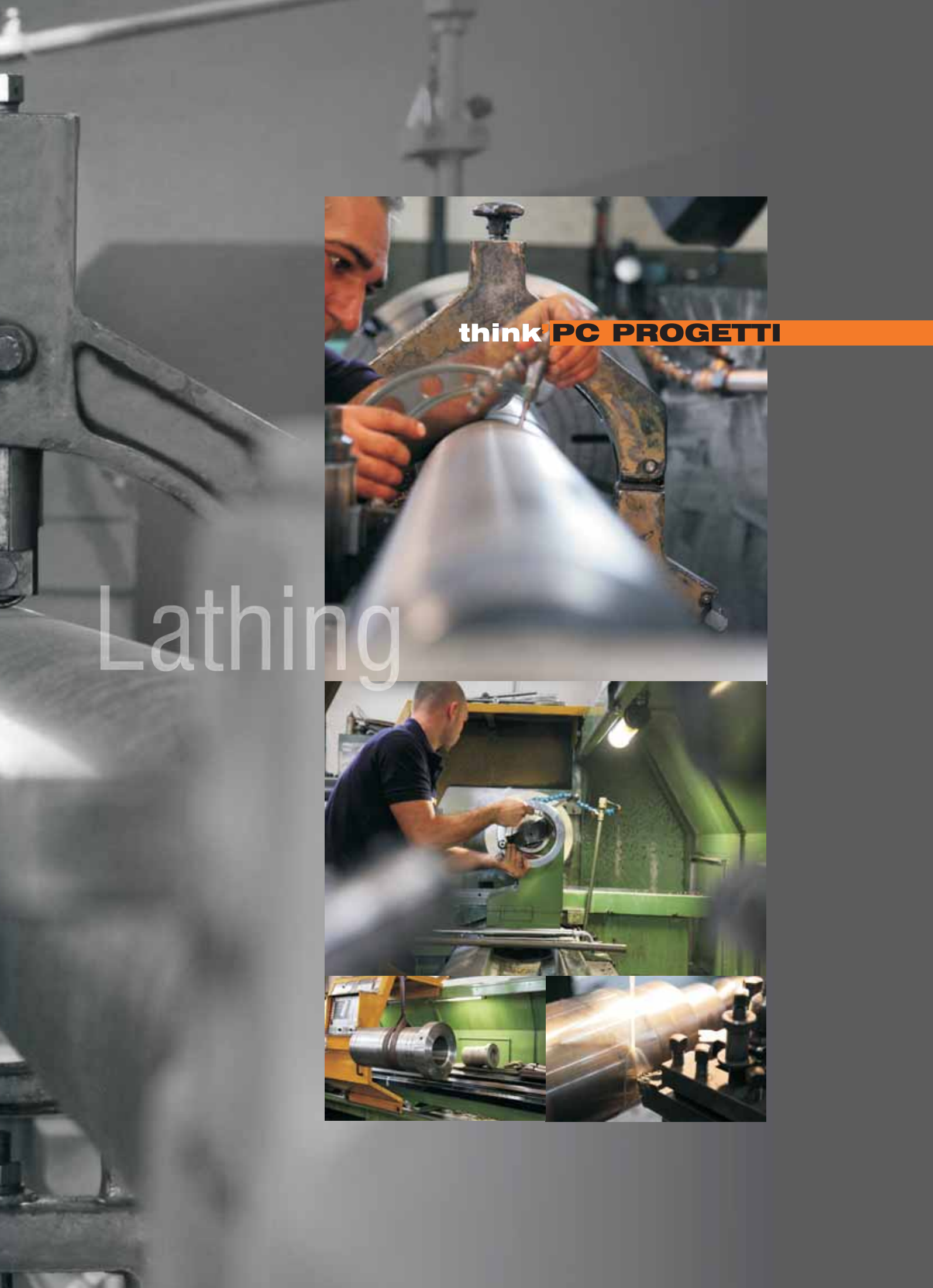
& welding

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IN
TEST
WE
TRUST



think PC PROGETTI

Lathing



IN TES WEST TRUST



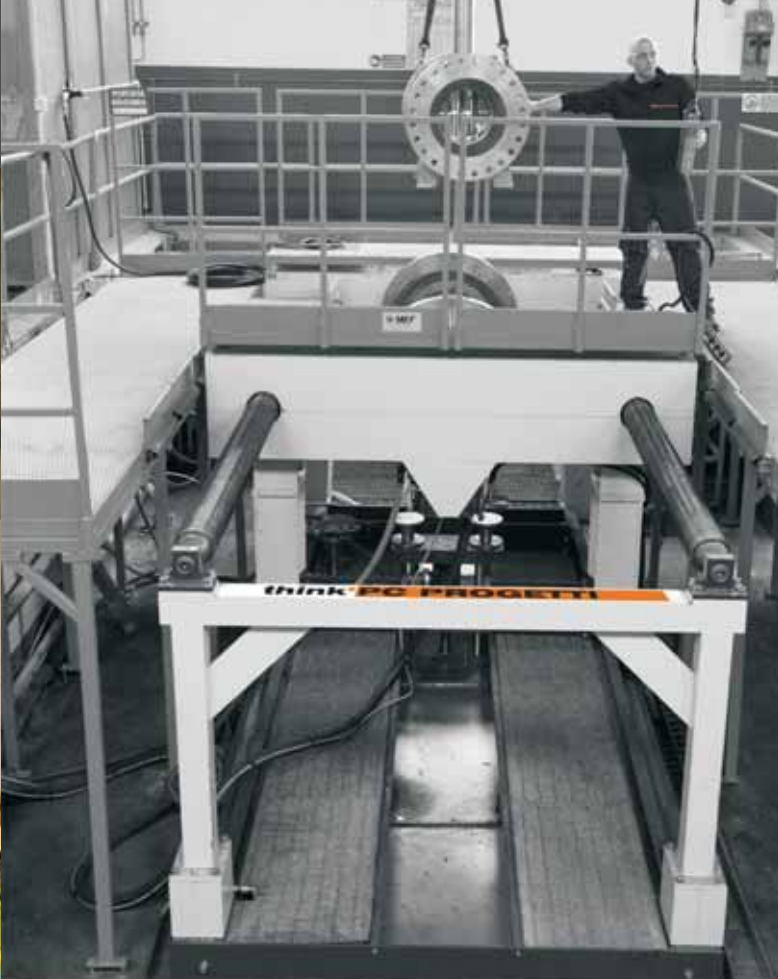


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Milling

SATI SFATON FOR OUR JOBS!





think **PC PROGETTI**



Index

Horizontal test bench.

pag	mod	Clamp type		
18	BO-2V/2800	2	2800 TON	with bore plugs clamping.
19	BO-2V/2500	2	2500 TON	with bore plugs clamping.
20	BO-2V/2400	2	2400 TON	with bore plugs clamping.
21	BO-2V/1800	2	1800 TON	with bore plugs clamping.
22	BO-2V/1600	2	1600 TON	with bore plugs clamping.
23	BO-2V/1200	2	1200 TON	with bore plugs clamping.
24	BO-2V/600	2	600 TON	with bore plugs clamping.
25	BO-2V/450	2	450 TON	with bore plugs clamping.
26	BO-2V/250	2	250 TON	with bore plugs clamping.
27	BO-2V/150	2	150 TON	with bore plugs clamping.
28	BO-2CV/750	3	750 TON	with combined clamping.
29	BO-2CV/450	3	450 TON	with combined clamping.
30	BO-2CV/250	3	250 TON	with combined clamping.
31	BO-2CV/100	3	100 TON	with combined clamping.

Horizontal test bench with 30° column disposal

pag	mod	Clamp type		
32	BO30-2CV/750	3	750 TON	with combined clamping.
33	BO30-2CV/500	3	500 TON	with combined clamping.
34	BO30-2CV/250	3	250 TON	with combined clamping.
35	BO30-2CV/250L	3	250 TON	with combined clamping.
36	BO30-CV/40P	3	40 TON	with combined clamping.
37	BO30-CV/50P	3	50 TON	with combined clamping.

Horizontal test bench with 45° column disposal

pag	mod	Clamp type		
38	BO45-2CV/3000	3	3000 TON	with combined clamping.
39	BO45-2CV/2000	3	2000 TON	with combined clamping.
40	BO45-2CV/500	3	500 TON	with combined clamping.
41	BO45-2CV/400	3	400 TON	with combined clamping.
42	BO45-2V/850	2	850 TON	with bore plugs clamping
43	BO45-2V/600	2	600 TON	with bore plugs clamping

Horizontal test benches for PIPE test

pag	mod	Clamp type		
44	BOT-2CV/2000	3	200 TON	combined clamping
45	BOT-2CS/1200	1	1200 TON	press clamping
45	BOT-2VS/600	2	600 TON	bore/radial plugs clamping

Vertical test benches

pag	mod	Clamp type		
46	BV-PMC/1200	1	1200 TON	mobile bridge, with press clamping.
47	BV-PMC/850	1	850 TON	mobile bridge, with press clamping.
48	BV-PMC/650W	1	650 TON	mobile bridge, with press clamping.
49	BV-PMC/650	1	650 TON	mobile bridge, with press clamping.
50	BV-PMC/550	1	550 TON	mobile bridge, with press clamping.
51	BV-PMC/500	1	500 TON	mobile bridge, with press clamping.
52	BV-PMC/500S	1	500 TON	mobile bridge, with press clamping.
53	BV-PMC/350	1	350 TON	mobile bridge, with press clamping.
54	BV-PMC/200-2	1	200 TON	mobile bridge, 2 test places, with press clamping.
55	BV-PMC/200S	1	200 TON	mobile bridge, with press clamping.
56	BV-PMC/120L	1	120 TON	mobile bridge, with press clamping.
57	BV-PMC/100-2	1	100 TON	mobile bridge, 2 test places, with press clamping.
58	BV-PMC/100	1	100 TON	mobile bridge, with press clamping.
59	BV-PMV/600	1	600 TON	mobile bridge, with bore plugs clamping.
60	BV-PMV/350	1	350 TON	mobile bridge, with bore plugs clamping.
61	BV-2V/800	2	800 TON	with bore plugs clamping.
62	BV-1V/200	2	200 TON	with bore plugs clamping.
63	BV-CV/100	3	100 TON	mobile bridge, with combined clamping.
64	BV-CCV/20	3	20 TON	mobile bridge, with combined clamping & valve actuator
65	BV-CCV/15	3	15 TON	mobile bridge, with combined clamping.

Multiple stations test benches

pag	mod	Clamp type		
66	BV-3V/360	2	360 TON	3 st. with bore plugs clamping.
67	BV-3V/270	2	270 TON	3 st. with bore plugs clamping.
68	BV-3V/150L	2	150 TON	3 st. with bore plugs clamping.
69	BV-3V/150	2	150 TON	3 st. with bore plugs clamping.
70	BV-3CV/240	3	240 TON	3 st. with combined clamping.
71	BV-5CV/150	3	150 TON	3 st. with combined clamping.
72	BV-5CV/100	3	100 TON	3 st. with combined clamping.
73	BV-3CV/30	3	30 TON	3 st. with combined clamping.
74	BV-5MV/20	4	20 TON	5 st. with claws clamping.

Water immersion GAS test benches

pag	mod	Clamp type		
75	BVI-V/20	2	20TON	Vertical test bench
76	BV-3CVI/60	3	60TON	Vertical test bench
77	BOI-V/450	2	450TON	Horizontal test bench

Special applications

pag	mod	
78	BV-5C-He/10	Microleakage vacuum test bench
79	SKA-100/He	Helium Spectrometer for microleakage vacuum test
80	SKC-100	Cycling endurance test
80	SKMM-100/ICRYO	Hyberbaric chamber pressurization skid
81	SKMM-50/TC + CRYO VESSEL	SKID for cryogenic temperature control & cryogenic vessel.
81	SkMM-100/FS	Gas pressurization skid for Cryogenic test.
82	SKMM-100/IC	Skid pressurizzazione test firesafe.
82	BPA-30K BPA-250K	Actuator test bench
83	BO-CV/40SA	Test bench for high speed production line.

PSV test benches

pag	mod	Clamp type		
84	BV-M/90	5	90TON	Vertical test rig, claws clamping
85	BV-M/60	5	60TON	Vertical test rig, claws clamping
85	BR-M/90	5	90TON	Tilting test rig, claws clamping
86	BR-M/15	5	15TON	Tilting test rig, claws clamping
86	SKMM-100/PSV	5		Pressurization skid with clamping tool for PSV & bullet proof test chamber.
87	SKA-PSV	-		Hydraulic & pneumatic pressurization skid for PSV valve
87	SKA-PSV2	-		Hydraulic pressurization skid for PSV valve

Automatic pressurization skid

pag	mod	
88/89	SKA-100/S	120 L/min water flow, Compact design
88/89	SKA-100	120 L/min water flow
88/89	SKA-250	240 L/min water flow
88/89	SKA-500	470 L/min water flow
88/89	SKA-1000	940 L/min water flow
88/89	SKA-2000	1880 L/min water flow

Semi-automatic pressurization skid

90/91	SKM-100	120 L/min water flow
90/91	SKM-250	240 L/min water flow
90/91	SKM-500	470 L/min water flow
90/91	SKM-1000	940 L/min water flow
90/91	SKM-2000	1880 L/min water flow

Manual pressurization skid

92/93	SKMM-10	10L/min water flow
92/93	SKMM-80/GAS	Low pressure GAS test, with 50L x2 bottle support
92/93	SKMM-100	120L/min water flow
92/93	SKMM-50/GAS-B2	High pressure GAS
92/93	SKMM-100/GAS-B2	High pressure GAS
92/93	SKMM-100/GAS-B3	High pressure GAS, with LCD and control PLC
92/93	SKMM-100/GAS-B4	High pressure GAS, with explosion proof test chamber

Accessories

94	CCMP-200	High pressure AIR compressor
94	SK-PC01	Computer console with personal computer
95	CV-X	Valve support tools
95	PLT-600 / PLT-2000	Plateau loading tools
95	RE-01	Electronic data recorder
95	BC-01	Portable Electronic bubbles counter

Certification software

96/97	TestREC5.4-M	Certification software for SKM class skids (MODBUS)
96/97	TestREC5.4	Certification software for SKA class skids (SYSWAY)
96/97	TestREC5.4-PSV	Certification software for SKM class skids for PSV test (MODBUS)

Horizontal test bench

Horizontal test bench

30°

Horizontal test bench

45°

Horizontal test bench

PIPE

Vertical test bench

Vertical Multiple stations

Water immersion GAS

Special applications

PSV

Press. skid

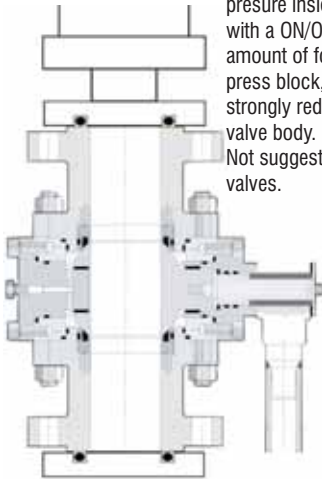
Software Accessories

Clamping styles

CLAMP
TYPE
1

Pressing:

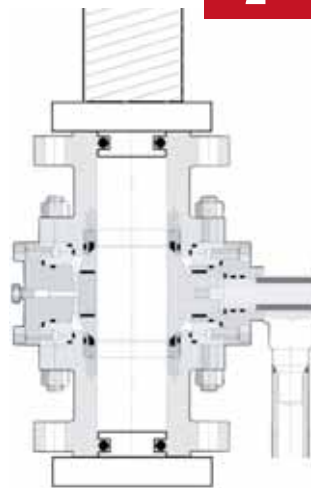
Proportionally controlled or On/Off The reaction against water hydrostatic force inside the valve, is made by an hydraulic cylinder. It can be controlled by a proportional oil regulation to the effective water pressure inside the valve or simply with a ON/OFF control to the total amount of force needed. Proportional press block, allow the system to strongly reduce the forces result on valve body.
Not suggested to test BW ending valves.



CLAMP
TYPE
2

Inner radial:

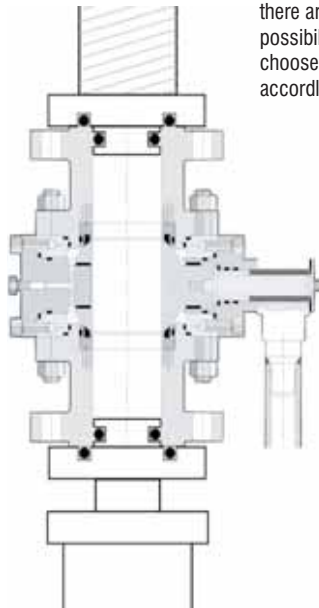
No external forces applied on valve body. The tightness is made by a O-ring seal the work on the inner side of valve body. This block style allow the valve to expand itself under the pressure test solicitation. Is the test style suggested by most diffused test standards. Inner radial style need a low ruggedness grade of walls of valve body, allowing O-ring to made the tightness. Specially suggested for BW ending valves.



CLAMP
TYPE
3

Combined:

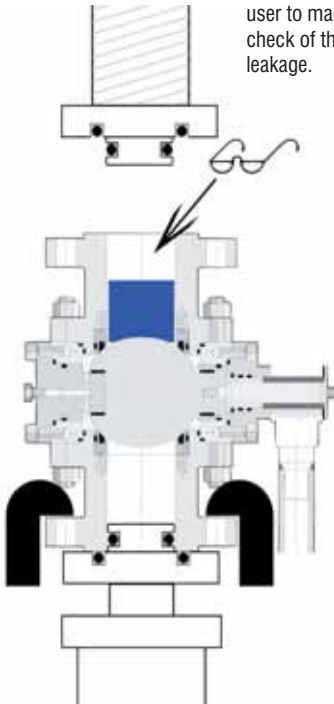
Suitable for all valves kind. It is a combination of style "1" and "2". In one test rig there are all the block possibility. Operatore could choose the best one accordly to the valve kind.



CLAMP
TYPE
4

Universal:

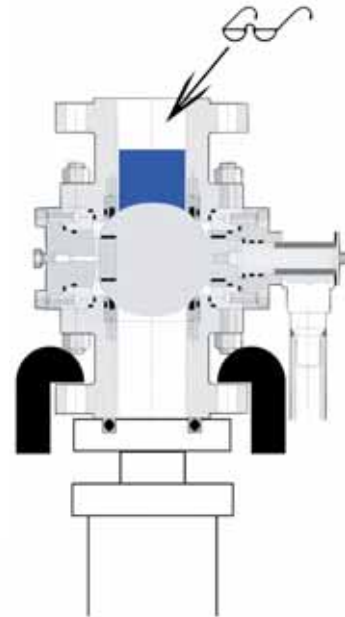
Visual leak test.
It has the same block
ability of Tightness type
"3", plus
the claws added to one
clamping side, allow the
user to made a visual
check of the seat
leakage.



CLAMP
TYPE
5

Claws only:

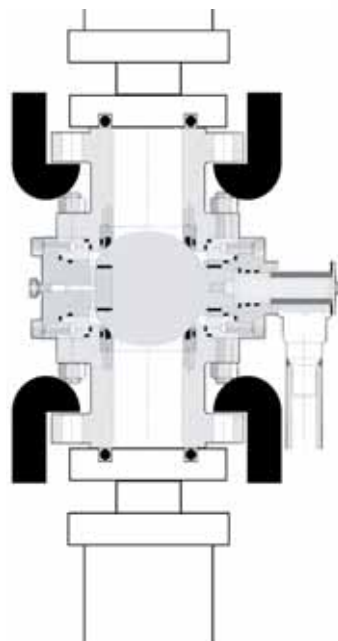
Visual leak test.
It has the same block
ability of Tightness type
"3", plus
the claws B side, allow the
user to made a visual
check of the seat leakage.



CLAMP
TYPE
6

Double Claws:

Both valve side are clamped
with clamping style "5".



BO-2V/2800

Horizontal test bench

DOUBLE SCREWED COLUMN
INNER RADIAL SEAL (BORE PLUGS)
AVAILABLE UP TO 5000 TON



Horizontal test rig with inner radial seal clamping style. The mobile reaction bridge is moved by two screwed columns that assure the complete absence of external forces on valve body. This prerogative makes it conform to the most diffuse international test standards. In the basement, a water tank is installed as water reservoir for test procedures. The rig is controlled by **SKA-1000** pressurization skid; to have more information about please consult dedicated technical data sheets. The rig could be completed with several options and accessories, please contact our sales office to have more information.

- Reaction force : **2800 TON**
(See working limits table)
- Length max : 3600 mm
- Length min : 600 mm
- Column inner distance : 2400 mm
- Basement water tank : 2900 Liter ca.
- Terminations allowed : BW, SW, RF, RJ
- Clamping style : Type 2 – Inner radial
- Reference standard : ISO, DIN, API, ANSI, ASTM, FCI, BS (Other on request).
- Electric supply : 3PH + T, 380V@50Hz, 12KW
- Dimensions : 5900 (L) x 3560 (P) x 2950 (H)

Mechanical assembly options available

OM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

See page 98 for details

***Working limits INNER RADIAL SEAL, ANSI VALVE, SHELL TEST:**

DN	20"	24"	26"	28"	30"	32"	34"	36"	40"	42"	48"	56"	60"
ANSI-150	TON												
ANSI-300	TON												
ANSI-600	TON												
ANSI-900	TON												
ANSI-1500	TON												
ANSI-2500	TON												

*Note: Showed data has been calculated considering Shell test pressure and nominal bore size according to API-6D. For further details please contact our technical office.

BO-2V/2500

Horizontal test bench

DOUBLE SCREWED COLUMN
INNER RADIAL SEAL (BORE PLUGS)



CLAMP
TYPE
2



Horizontal test bench

Horizontal test rig with inner radial seal clamping style. The mobile reaction bridge is moved by two screwed columns that assure the complete absence of external forces on valve body. This prerogative makes it conform to the most diffuse international test standards.

The rig is controlled by "SKA or SKM class" pressurization skid; to have more information about please consult dedicated technical data sheets. The rig could be completed with several options and accessories, please contact our sales office to have more information.

In the basement, a water tank is installed as water reservoir for test procedures.

- Reaction force : **2500 TON**
(See working limits table)
- Length max : 5400 mm
- Length min : 800 mm
- Column inner distance : 2500 mm
- Flow Axis Heigh : 2200 mm
- Basement water tank : 3500 Liters ca.
- Terminations allowed : BW, SW, RF, RJ
- Clamping style : Type 2 – Inner radial
- Reference standard : ISO, DIN, API, ANSI, ASTM, FCI, BS (Other on request).
- Electric supply : 3PH + T, 380V@50Hz, 10KW
- Dimensions : 7800 (L) x 3610 (P) x 2910 (H)

Mechanical assembly options available

OM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

See page 98 for details

***Working limits INNER RADIAL SEAL, ANSI VALVE, SHELL TEST:**

	DN	24"	26"	28"	30"	32"	34"	36"	40"	42"	48"	56"
ANSI-150	TON											
ANSI-300	TON											
ANSI-600	TON											
ANSI-900	TON											
ANSI-1500	TON											
ANSI-2500	TON											

*Note: Showed data has been calculated considering Shell test pressure and nominal bore size according to API-6D. For further details please contact our technical office.

[Patent Pending]

BO-2V/2400

Horizontal test bench

DOUBLE SCREWED COLUMN
INNER RADIAL SEAL (BORE PLUGS)



Horizontal test rig with inner radial seal clamping style. The mobile reaction bridge is moved by two screwed columns that assure the complete absence of external forces on valve body. This prerogative makes it conform to the most diffuse international test standards. In the basement, a water tank is installed as water reservoir for test procedures. The rig is controlled by "SKA or SKM class" pressurization skid; to have more information about please consult dedicated technical data sheets. The rig could be completed with several options and accessories, please contact our sales office to have more information.

- Reaction force : **2400 TON**
(See working limits table)
- Length max : 3900 mm
- Length min : 800 mm
- Column inner distance : 2250 mm
- Basement water tank : 2900 Liters ca.
- Terminations allowed : BW, SW, RF, RJ
- Clamping style : Type 2 – Inner radial
- Reference standard : ISO, DIN, API, ANSI, ASTM, FCI, BS (Other on request).
- Electric supply : 3PH + T, 380V@50Hz, 10KW
- Dimensions : 5800 (L) x 3360 (P) x 2950 (H)

Mechanical assembly options available

OM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

See page 98 for details

***Working limits INNER RADIAL SEAL, ANSI VALVE, SHELL TEST:**

	DN	20"	24"	26"	28"	30"	32"	34"	36"	40"	42"	48"	60" on request
ANSI-150	TON												
ANSI-300	TON												
ANSI-600	TON												
ANSI-900	TON												
ANSI-1500	TON												
ANSI-2500	TON												

*Note: Showed data has been calculated considering Shell test pressure and nominal bore size according to API-6D. For further details please contact our technical office.

BO-2V/1800

Horizontal test bench

DOUBLE SCREWED COLUMN
INNER RADIAL SEAL (BORE PLUGS)



CLAMP
TYPE
2

Horizontal test bench



Horizontal test rig with inner radial seal clamping style. The mobile reaction bridge is moved by two screwed columns that assure the complete absence of external forces on valve body. This prerogative makes it conform to the most diffuse international test standards. In the basement, a water tank is installed as water reservoir for test procedures. The rig is controlled by **SKA 1000** pressurization skid; to have more information about please consult dedicated technical data sheets. The rig could be completed with several options and accessories, please contact our sales office to have more information.

- Reaction force : **1800 TON**
(See working limits table)
- Length max : 4000 mm
- Length min : 600 mm
- Column inner distance : 2400 mm
- Basement water tank : 2900 Liters ca.
- Terminations allowed : BW, SW, RF, RJ
- Clamping style : Type 2 – Inner radial
- Reference standard : ISO, DIN, API, ANSI, ASTM, FCI, BS (Other on request).
- Electric supply : 3PH + T, 380V@50Hz, 10KW
- Dimensions : 6500 (L) x 3700 (P) x 2600 (H)

Mechanical assembly options available

OM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

See page 98 for details

***Working limits INNER RADIAL SEAL, ANSI VALVE, SHELL TEST:**

	DN	18"	20"	24"	26"	28"	30"	32"	34"	36"	40"	42"	48"	56"
ANSI-150	TON													
ANSI-300	TON													
ANSI-600	TON													
ANSI-900	TON													
ANSI-1500	TON													
ANSI-2500	TON													

*Note: Showed data has been calculated considering Shell test pressure and nominal bore size according to API-6D. For further details please contact our technical office.

BO-2V/1600

Horizontal test bench

DOUBLE SCREWED COLUMN
INNER RADIAL SEAL (BORE PLUGS)



CLAMP
TYPE
2

available
on request
CLAMP
TYPE
3



Horizontal test rig with inner radial seal clamping style. The mobile reaction bridge is moved by two screwed columns that assure the complete absence of external forces on valve body. This prerogative makes it conform to the most diffuse international test standards. In the basement, a water tank is installed as water reservoir for test procedures. The rig is controlled by "SKM or SKA class" pressurization skid; to have more information about please consult dedicated technical data sheets. The rig could be completed with several options and accessories, please contact our sales office to have more information.

- Reaction force : **1600 TON**
(See working limits table)
- Length max : 4000 mm
- Length min : 600 mm
- Column inner distance : 1700 mm
- Basement water tank : 2000 Liters ca.
- Terminations allowed : BW, SW, RF, RJ
- Clamping style : Type 2 – Inner radial
- Reference standard : ISO, DIN, API, ANSI, ASTM, FCI, BS (Other on request).
- Electric supply : 3PH + T, 380V@50Hz, 10KW
- Dimensions : 6237 (L) x 2989 (P) x 2150 (H)

Mechanical assembly options available

OM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

See page 98 for details

***Working limits INNER RADIAL SEAL, ANSI VALVE, SHELL TEST:**

	DN	16"	18"	20"	24"	26"	28"	30"	32"	34"	36"	40"	42"	48"
ANSI-150	TON													
ANSI-300	TON													
ANSI-600	TON													
ANSI-900	TON													
ANSI-1500	TON													
ANSI-2500	TON													

Gate

*Note: Showed data has been calculated considering Shell test pressure and nominal bore size according to API-6D. For further details please contact our technical office.

BO-2V/1200

Horizontal test bench

DOUBLE SCREWED COLUMN
INNER RADIAL SEAL (BORE PLUGS)



CLAMP
TYPE
2



Horizontal test bench

Horizontal test rig with inner radial seal clamping style. The mobile reaction bridge is moved by two screwed columns that assure the complete absence of external forces on valve body. This prerogative makes it conform to the most diffuse international test standards. In the basement, a water tank is installed as water reservoir for test procedures. The rig is controlled by **SKA-500** pressurization skid; to have more information about please consult dedicated technical data sheets. The rig could be completed with several options and accessories, please contact our sales office to have more information.

- Reaction force : **1200 TON**
(See working limits table)
- Length max : 3000 mm
- Length min : 200 mm
- Column inner distance : 1700 mm
- Lifter : Optional
- Basement water tank : 2000 Liters ca.
- Terminations allowed : BW, SW, RF, RJ
- Clamping style : Type 2 – Inner radial
- Reference standard : ISO, DIN, API, ANSI, ASTM, FCI, BS (Other on request).
- Electric supply : 3PH + T, 380V@50Hz, 6KW
- Dimensions : 5100(L) x 2650(P) x 1760(H)

Mechanical assembly options available

OM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

See page 98 for details

***Working limits INNER RADIAL SEAL, ANSI VALVE, SHELL TEST:**

	DN	6"	8"	10"	12"	14"	16"	18"	20"	24"	26"	28"	30"	32"	34"	36"	40"
ANSI-150	TON																
ANSI-300	TON																
ANSI-600	TON																
ANSI-900	TON																
ANSI-1500	TON																
ANSI-2500	TON																

*Note: Showed data has been calculated considering Shell test pressure and nominal bore size according to API-6D. For further details please contact our technical office.

[Patent Pending]

BO-2V/600

Horizontal test bench

DOUBLE SCREWED COLUMN
INNER RADIAL SEAL (BORE PLUGS)



Horizontal test rig with inner radial seal clamping style. The mobile reaction bridge is moved by two screwed columns that assure the complete absence of external forces on valve body. This prerogative makes it conform to the most diffuse international test standards. In the basement, a water tank is installed as water reservoir for test procedures.

The rig is controlled by **SKA-100** pressurization skid; to have more information about please consult dedicated technical data sheets. The rig could be completed with several options and accessories, please contact our sales office to have more information.

- Reaction force : **600 TON** (See working limits table)
- Length max : 2000 mm
- Length min : 250 mm
- Column inner distance : 1350 mm
- Loading height : 1500 mm
- Basement water tank : 1100 litres
- Lifter : See Option
- Screw dust protection : See Option
- Terminations allowed : BW, SW, RF, RJ
- Clamping style : Type 2 – Inner radial
- Reference standard : ISO, DIN, API, ANSI, ASTM, FCI, BS (Other on request).
- Electric supply : 3PH + T, 380V@50Hz, 7KW
- Dimensions : 3730(L) x 2276(P) x 1800(H)

Mechanical assembly options available

OM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
	●	●				●	●	●	●					●							

See page 98 for details

***Working limits INNER RADIAL SEAL, ANSI VALVE, SHELL TEST:**

	DN	6"	8"	10"	12"	14"	16"	18"	20"	24"	26"	28"	32"
ANSI-150	TON												
ANSI-300	TON												
ANSI-600	TON												
ANSI-900	TON												
ANSI-1500	TON												
ANSI-2500	TON												
ANSI-4500	TON												

*Note: Showed data has been calculated considering Shell test pressure and nominal bore size according to API-6D. For further details please contact our technical office.

BO-2V/450

Horizontal test bench

DOUBLE SCREWED COLUMN
INNER RADIAL SEAL (BORE PLUGS)



CLAMP
TYPE
2

Horizontal test bench



Horizontal test rig with inner radial seal clamping style. The mobile reaction bridge is moved by two screwed columns that assure the complete absence of external forces on valve body. This prerogative makes it conform to the most diffuse international test standards. In the basement, a water tank is installed as water reservoir for test procedures. The rig is controlled by **SKA-100** pressurization skid; to have more information about please consult dedicated technical data sheets. The rig could be completed with several options and accessories, please contact our sales office to have more information.

- Reaction force : **450 TON** (See working limits table)
- Length max : 2000 mm
- Length min : 0 mm
- Column inner distance : 1060 mm
- Loading height : 950 mm
- Basement water tank : 400 Liters
- Lifter : See Option
- Screw bellows : See Option
- Terminations allowed : BW, SW, RF, RJ
- Clamping style : Type 2 – Inner radial
- Reference standard : ISO, DIN, API, ANSI, ASTM, FCI, BS (Other on request).
- Electric supply : 3PH + T, 380V@50Hz, 7KW
- Dimensions : 3570(L) x 1650(P) x 1240(H)
(Mechanical stand only)

Mechanical assembly options available

OM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
	●	●	●		●	●	●	●	●				●	●							

See page 98 for details

***Working limits INNER RADIAL SEAL, ANSI VALVE, SHELL TEST:**

	DN	6"	8"	10"	12"	14"	16"	18"	20"	24"
ANSI-150	TON									
ANSI-300	TON									
ANSI-600	TON									
ANSI-900	TON									
ANSI-1500	TON									
ANSI-2500	TON									
ANSI-4500	TON									

*Note: Showed data has been calculated considering Shell test pressure and nominal bore size according to API-6D. For further details please contact our technical office.

[Patent Pending]

BO-2V/250

Horizontal test bench

DOUBLE SCREWED COLUMN
INNER RADIAL SEAL
(BORE PLUGS)



Horizontal test rig with inner radial seal clamping style. The mobile reaction bridge is moved by two screwed columns that assure the complete absence of external forces on valve body. This prerogative makes it conform to the most diffuse international test standards. In the basement, a water tank is installed as water reservoir for test procedures. The rig is controlled by **SKA-100** pressurization skid; to have more information about please consult dedicated technical data sheets. The rig could be completed with several options and accessories, please contact our sales office to have more information.

Reaction force	:	250 TON	(See working limits table)
Length max	:	1300 mm	
Length min	:	50 mm	
Column inner distance	:	1100 mm	
Loading height	:	1100 mm	
Basement water tank	:	400 Liters	
Lifter	:	See Option	
Screw dust protection	:	See Option	
Terminations allowed	:	BW, SW, RF, RJ	
Clamping style	:	Type 2 – Inner radial	
Reference standard	:	ISO, DIN, API, ANSI, ASTM, FCI, BS (Other on request).	
Electric supply	:	3PH + T, 380V@50Hz, 7KW	
Dimensions	:	2650(L) x 1310(P) x 1130(H)	(Mechanical stand)

Mechanical assembly options available																				
OM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

See page 98 for details

***Working limits INNER RADIAL SEAL, ANSI VALVE, SHELL TEST:**

	DN	6"	8"	10"	12"	14"	16"	18"	20"	24"
ANSI-150	TON									
ANSI-300	TON									
ANSI-600	TON									
ANSI-900	TON									
ANSI-1500	TON									
ANSI-2500	TON									
ANSI-4500	TON									

*Note: Showed data has been calculated considering Shell test pressure and nominal bore size according to API-6D. For further details please contact our technical office.

BO-2V/150

Horizontal test bench

DOUBLE SCREWED COLUMN
INNER RADIAL SEAL
(BORE PLUGS)



CLAMP
TYPE
2



Horizontal test bench

Horizontal test rig with inner radial seal clamping style. The mobile reaction bridge is moved by two screwed columns that assure the complete absence of external forces on valve body. This prerogative makes it conform to the most diffuse international test standards. In the basement, a water tank could be installed as water reservoir for test procedures.

The rig is controlled by **SKA-100** pressurization skid; to have more information about please consult dedicated technical data sheets. The rig could be completed with several options and accessories, please contact our sales office to have more information.

- Reaction force : **150 TON** (See working limits table)
- Length max : 1300 mm
- Length min : 50 mm
- Column inner distance : 700 mm
- Loading height : 990 mm
- Basement water tank : 200 Liters
- Lifter : See Option
- Screw dust protection : See Option
- Terminations allowed : BW, SW, RF, RJ
- Clamping style : Type 2 – Inner radial
- Reference standard : ISO, DIN, API, ANSI, ASTM, FCI, BS (Other on request).
- Electric supply : 3PH + T, 380V@50Hz, 7KW
- Dimensions : 2545(L) x 1110(P) x 1170(H)
(Mechanical stand)

Mechanical assembly options available

OM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

See page 98 for details

***Working limits INNER RADIAL SEAL, ANSI VALVE, SHELL TEST:**

	DN	1/2"	1"	2"	3"	4"	5"	6"	8"	10"	12"
ANSI-150	TON										
ANSI-300	TON										
ANSI-600	TON										
ANSI-900	TON										
ANSI-1500	TON										
ANSI-2500	TON										
ANSI-4500	TON										

*Note: Showed data has been calculated considering Shell test pressure and nominal bore size according to API-6D. For further details please contact our technical office.

[Patent Pending]

BO-2CV/750

Horizontal test bench

DOUBLE SCREWED COLUMN + CYLINDER
COMBINED CLAMPING INNER RADIAL SEAL +
PROPORTIONAL PRESS CONTROL



CLAMP
TYPE
3



Horizontal test rig with combined clamping style: inner radial seal + press clamping facilities.

The mobile reaction bridge is moved by two screwed columns that assure the complete absence of external forces on valve body and an hydraulic cylinder can make pressing clamping with or without proportional control. This prerogative makes it conform to the most diffuse international test standards. In the basement, a water tank is installed as water reservoir for test procedures.

The rig is controlled by **SKA-100** pressurization skid; to have more information about please consult dedicated technical data sheets. The rig could be completed with several options and accessories, please contact our sales office to have more information.

Reaction force	:	750 TON (See working limits table)
Valve lenght max	:	1800 mm /3000 mm
Valve lenght min	:	150 mm
Column clearance	:	1200 mm
Basement vessel	:	900 Litres
Lifter	:	Optional
Valve kind	:	BW, SW, RF, RJ
Clamping Style	:	Inner radial & Pressing
Reference standard	:	ISO, DIN, API, ANSI, ASTM, FCI, BS (Other on request).
Pneumatic supply	:	7 bar @ 2000 NI/min Dry air not lubricated
Alimentazione elettrica	:	3PH + T, 380V@50Hz
Dimensions.	:	3450(L) x 2000 (P) x 2000(H)

Mechanical assembly options available

OM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

See page 98 for details

***Working limits for PRESS CLAMPING and INNER RADIAL SEAL ANSI VALVES, SHELL TEST**

	DN	6"	8"	10"	12"	14"	16"	18"	20"	24"	26"	28"	30"
ANSI-150	TON												
ANSI-300	TON												
ANSI-600	TON												
ANSI-900	TON												
ANSI-1500	TON												
ANSI-2500	TON												

*Note: Indicated values has been calculated for shell test and with API-6D nominal minimum bore size and they have to be considered as reference only. Press clamping style limits are based on bore size increased by 50 mm. For more accurate information please contact our technical office or consult instruction book delivered along the rig.

BO-2CV/450

Horizontal test bench

DOUBLE SCREWED COLUMN + CYLINDER
COMBINED CLAMPING INNER RADIAL SEAL+
PROPORTIONAL PRESS CONTROL



CLAMP
TYPE
3

Horizontal test bench



Horizontal test rig with combined clamping style: inner radial seal + press clamping facilities.

The mobile reaction bridge is moved by two screwed columns that assure the complete absence of external forces on valve body and an hydraulic cylinder can make pressing clamping with or without proportional control. This prerogative makes it conform to the most diffuse international test standards. In the basement, a water tank is installed as water reservoir for test procedures. The rig is controlled by **SKA-100** pressurization skid; to have more information about please consult dedicated technical data sheets. The rig could be completed with several options and accessories, please contact our sales office to have more information.

Reaction force	:	450 TON (See working limits table)
Length max	:	1300 mm
Length min	:	0 mm
Column inner distance	:	1060
Loading height	:	1040 mm from soil
Basement water tank	:	470 Litres
Terminations allowed	:	BW, SW, RF, RJ
Clamping style	:	Type 3 – Combined Inner radial clamping & Pressing clamping with Proportional control.
Reference standard	:	ISO, DIN, API, ANSI, ASTM, FCI, BS (Other on request).
Electric supply	:	3PH + T, 380V@50Hz, 10KW
Dimensions	:	3270(L) x 1650(P) x 1400(H) (Mechanical structure)

Mechanical assembly options available

OM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

See page 98 for details

***Working limits for PRESS CLAMPING and INNER RADIAL SEAL ANSI VALVES, SHELL TEST**

	DN	6"	8"	10"	12"	14"	16"	18"	20"	24"
ANSI-150	TON									
ANSI-300	TON									
ANSI-600	TON									
ANSI-900	TON									
ANSI-1500	TON									
ANSI-2500	TON									

*Note: Indicated values has been calculated for shell test and with API-6D nominal minimum bore size and they have to be considered as reference only. Press clamping style limits are based on bore size increased by 50 mm. For more accurate information please contact our technical office or consult instruction book delivered along the rig.

[Patent Pending]

BO-2CV/250

Horizontal test bench

DOUBLE SCREWED COLUMN + CYLINDER
COMBINED CLAMPING INNER RADIAL SEAL+
PROPORTIONAL PRESS CONTROL



CLAMP
TYPE
3



Horizontal test rig with combined clamping style: inner radial seal + press clamping facilities.

The mobile reaction bridge is moved by two screwed columns that assure the complete absence of external forces on valve body and an hydraulic cylinder can make pressing clamping with or without proportional control. This prerogative makes it conform to the most diffuse international test standards. The rig is controlled by SKA-100 pressurization skid; to have more information about please consult dedicated technical data sheets. The rig could be completed with several options and accessories, please contact our sales office to have more information.

Reaction force	:	250 TON (See working limits table)
Valve length max	:	1500 mm
Valve length min	:	0 mm
Column inner distance	:	900
Loading height	:	950 mm from soil
Basement water tank	:	370 Litres
Terminations allowed	:	BW, SW, RF, RJ
Clamping style	:	Type 3 – Combined Inner radial clamping & Pressing clamping with Proportional control.
Reference standard	:	ISO, DIN, API, ANSI, ASTM, FCI, BS (Other on request).
Electric supply	:	3PH + T, 380V@50Hz, 7KW
Dimensions	:	2880(L) x 1310(P) x 1400H) (Mechanical structure)

Mechanical assembly options available

OM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

See page 98 for details

***Working limits for PRESS CLAMPING and INNER RADIAL SEAL
ANSI VALVES, SHELL TEST**

	DN	2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"
ANSI-150	TON												
ANSI-300	TON												
ANSI-600	TON												
ANSI-900	TON												
ANSI-1500	TON												
ANSI-2500	TON												

*Note: Indicated values has been calculated for shell test and with API-6D nominal minimum bore size and they have to be considered as reference only. Press clamping style limits are based on bore size increased by 50 mm. For more accurate information please contact our technical office or consult instruction book delivered along the rig.

BO-2CV/100

Horizontal test bench

DOUBLE SCREWED COLUMN + CYLINDER
COMBINED CLAMPING INNER RADIAL SEAL+
PROPORTIONAL PRESS CONTROL



CLAMP
TYPE
3

Horizontal test bench



Horizontal test rig with combined clamping style: inner radial seal + press clamping facilities.

The mobile reaction bridge is moved by two screwed columns that assure the complete absence of external forces on valve body and an hydraulic cylinder can make pressing clamping with or without proportional control. This prerogative makes it conform to the most diffuse international test standards. The rig is controlled by **SKA-100** pressurization skid; to have more information about please consult dedicated technical data sheets. The rig could be completed with several options and accessories, please contact our sales office to have more information.

Reaction force	:	100 TON (See working limits table)
Valve length max	:	1300 mm
Valve length min	:	0 mm
Column inner distance	:	900
Loading height	:	1140 mm from soil
Basement water tank	:	170 Litres
Terminations allowed	:	BW, SW, RF, RJ
Clamping style	:	Type 3 – Combined Inner radial clamping & Pressing clamping with Proportional control.
Reference standard	:	ISO, DIN, API, ANSI, ASTM, FCI, BS (Other on request).
Electric supply	:	3PH + T, 380V@50Hz, 7KW
Dimensions	:	2600(L) x 1290(P) x 1400H) (Mechanical structure)

Mechanical assembly options available

OM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

See page 98 for details

***Working limits for PRESS CLAMPING and INNER RADIAL SEAL ANSI VALVES, SHELL TEST**

	DN	2"	3"	4"	6"	8"	10"	12"	14"	16"	18"
ANSI-150	TON										
ANSI-300	TON										
ANSI-600	TON										
ANSI-900	TON										
ANSI-1500	TON										
ANSI-2500	TON										

*Note: Indicated values has been calculated for shell test and with API-6D nominal minimum bore size and they have to be considered as reference only. Press clamping style limits are based on bore size increased by 50 mm. For more accurate information please contact our technical office or consult instruction book delivered along the rig.

[Patent Pending]

BO30-2CV/750

Horizontal test bench

with 30° column disposal

DOUBLE SCREWED COLUMN + CYLINDER
COMBINED CLAMPING INNER RADIAL SEAL+
PROPORTIONAL PRESS CONTROL



CLAMP
TYPE
3



Horizontal test rig with combined clamping style: inner radial seal + press clamping facilities. Designed to test control valve up to 32" according to FCI 70-2 and DIN EN 12266 standards. The mobile reaction bridge is moved by two screwed columns that assure the complete absence of external forces on valve body and an hydraulic cylinder can make pressing clamping with or without proportional control. This prerogative makes it conform to the most diffuse international test standards. In the basement, a water tank is installed as water reservoir for test procedures. The rig is controlled by **SKA-100** pressurization skid with control valve asset devices. Please contact our sales office to have more information.

Reaction force	:	750 TON (See working limits table)
Valve length max	:	2200 mm
Valve length min	:	0 mm
Column inner distance	:	1500
Loading height	:	1350 mm from soil
Basement water tank	:	950 Litres
Terminations allowed	:	BW, SW, RF, RJ
Clamping style	:	Type 3 – Combined Inner radial clamping & Pressing clamping with Proportional control.
Reference standard	:	ISO, DIN, API, ANSI, ASTM, FCI, BS (Other on request).
Electric supply	:	3PH + T, 380V@50Hz, 10KW
Dimensions	:	4630(L) x 2300(P) x 2170(H) (Mechanical structure)

Mechanical assembly options available

OM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

See page 98 for details

***Working limits for PRESS CLAMPING and INNER RADIAL SEAL ANSI VALVES, SHELL TEST**

DN	6"	8"	10"	12"	14"	16"	18"	20"	24"	26"
ANSI-150 TON										
ANSI-300 TON										
ANSI-600 TON										
ANSI-900 TON										
ANSI-1500 TON										
ANSI-2500 TON										

(*Note: Indicated values has been calculated for shell test and with API-6D nominal minimum bore size + 50mm and they have to be considered as reference only. For more accurate information please contact our technical office or consult instruction book delivered along the rig

BO30-2CV/500

Horizontal test bench

with 30° column disposal

DOUBLE SCREWED COLUMN + CYLINDER
COMBINED CLAMPING INNER RADIAL SEAL+
PROPORTIONAL PRESS CONTROL



CLAMP
TYPE
3



Horizontal test rig with combined clamping style: inner radial seal + press clamping facilities.

The mobile reaction bridge is moved by two screwed columns that assure the complete absence of external forces on valve body and an hydraulic cylinder can make pressing clamping with or without proportional control. This prerogative makes it conform to the most diffuse international test standards. Complete flow meters set could be installed (See option) to perform Seat leakage test on control valves.

The rig is controlled by **SKA-100** pressurization skid; to have more information about please consult dedicated technical data sheets. The rig could be completed with several options and accessories, please contact our sales office to have more information.

Horizontal test bench 30°

Reaction force	:	500 TON (See working limits table)
Valve length max	:	1760 mm
Valve length min	:	0 mm
Column inner distance	:	1160
Loading height	:	800 mm from basement 1000mm from soil 25° inclination from soil
Basement water tank	:	470 Litres
Terminations allowed	:	BW, SW, RF, RJ
Clamping style	:	Type 3 – Combined Inner radial clamping & Pressing clamping with Proportional control.
Reference standard	:	ISO, DIN, API, ANSI, ASTM, FCI, BS (Other on request).
Electric supply	:	3PH + T, 380V@50Hz, 10KW
Dimensions	:	3450(L) x 2000(P) x 2000(H) (Mechanical structure)

Mechanical assembly options available

OM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

See page 98 for details

***Working limits for PRESS CLAMPING and INNER RADIAL SEAL ANSI VALVES, SHELL TEST**

DN	6"	8"	10"	12"	14"	16"	18"	20"	24"
ANSI-150 TON									
ANSI-300 TON									
ANSI-600 TON									
ANSI-900 TON									
ANSI-1500 TON									
ANSI-2500 TON									

(*Note: Indicated values has been calculated for **shell test** and with **API-6D** nominal minimum bore size + 50mm and they have to be considered as reference only. For more accurate information please contact our technical office or consult instruction book delivered along the rig

[Patent Pending]

BO30-2CV/250

Horizontal test bench

with 30° column disposal

DOUBLE SCREWED COLUMN + CYLINDER
COMBINED CLAMPING INNER RADIAL SEAL+
PROPORTIONAL PRESS CONTROL



CLAMP
TYPE
3



Horizontal test rig with combined clamping style: inner radial seal + press clamping facilities. The mobile reaction bridge is moved by two screwed columns that assure the complete absence of external forces on valve body and an hydraulic cylinder can make pressing clamping with or without proportional control. This prerogative makes it conform to the most diffuse international test standards. The rig is controlled by **SKA-100** pressurization skid; to have more information about please consult dedicated technical data sheets. The rig could be completed with several options and accessories, please contact our sales office to have more information.

Reaction Power	:	250 TON (See working limits table)
Columns disposal	:	30°
Valve length max	:	1750mm
Valve length min	:	0 mm
Column clearance	:	1100 mm
Basement vessel	:	400 litres
Lifter	:	Optional
Valve kind	:	BW, SW, RF, RJ
Clamping Style	:	Inner radial & Pressing
Reference standard	:	ISO, DIN, API, ANSI, ASTM, FCI, BS (Other on request).
Pneumatic supply	:	7 bar @ 2000 NI/min Dry air not lubricated
Electrical supply	:	3PH + T, 380V@50Hz
Dimensions.	:	3300(L) x 1650(P) x 1600(H)

Mechanical assembly options available

OM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

See page 98 for details

***Working limits for PRESS CLAMPING and INNER RADIAL SEAL ANSI VALVES, SHELL TEST**

DN	6"	8"	10"	12"	14"	16"	18"	20"	24"
ANSI-150 TON									
ANSI-300 TON									
ANSI-600 TON									
ANSI-900 TON									
ANSI-1500 TON									
ANSI-2500 TON									

(*Note: Indicated values has been calculated for shell test and with API-6D nominal minimum bore size + 50mm and they have to be considered as reference only. For more accurate information please contact our technical office or consult instruction book delivered along the rig

BO30-2CV/250L

Horizontal test bench

with 30° column disposal

DOUBLE SCREWED COLUMN + CYLINDER
COMBINED CLAMPING INNER RADIAL SEAL+
PROPORTIONAL PRESS CONTROL



CLAMP
TYPE
3



Horizontal test bench 30°

Horizontal test rig with combined clamping style: inner radial seal + press clamping facilities.

The mobile reaction bridge is moved by two screwed columns that assure the complete absence of external forces on valve body and an hydraulic cylinder can make pressing clamping with or without proportional control. This prerogative makes it conform to the most diffuse international test standards. In the basement, a water tank is installed as water reservoir for test procedures. Complete flow meters set could be installed (see option) to perform seat leakage test on control valves.

The rig is controlled by **SKA-100** pressurization skid; to have more information about please consult dedicated technical data sheets. The rig could be completed with several options and accessories, please contact our sales office to have more information.

Reaction Power	:	250 TON (See working limits table)
Columns disposal	:	30°
Valve lenght max	:	1600mm
Valve lenght min	:	0 mm
Column clearance	:	1150mm
Basement vessel	:	400 Litres
Lifter	:	Optional
Valve kind	:	BW, SW, RF, RJ
Clamping Style	:	Inner radial & Pressing
Reference standard	:	ISO, DIN, API, ANSI, ASTM, FCI, BS (Other on request).
Pneumatic supply	:	7 bar @ 2000 NI/min Dry air not lubricated
Alimentazione elettrica	:	3PH + T, 380V@50Hz
Dimensions.	:	3300(L) x 1650(P) x 1600(H)

Mechanical assembly options available

OM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

See page 98 for details

***Working limits for PRESS CLAMPING and INNER RADIAL SEAL ANSI VALVES, SHELL TEST**

DN	6"	8"	10"	12"	14"	16"	18"	20"	24"	26"	28"	30"	32"
ANSI-150 TON													
ANSI-300 TON													
ANSI-600 TON													
ANSI-900 TON													
ANSI-1500 TON													
ANSI-2500 TON													

(*Note: Indicated values has been calculated for shell test and with API-6D nominal minimum bore size + 50mm and they have to be considered as reference only. For more accurate information please contact our technical office or consult instruction book delivered along the rig

[Patent Pending]

BO30-CV/40P
Horizontal test bench
 with 30° column disposal

SINGLE SCREWED COLUMN + CYLINDER
 COMBINED CLAMPING
 AUTOMATIC OPENING FRONT PROTECTION
 SHUT-OFF VALVE ASSET



Horizontal test rig with combined clamping style: inner radial seal + press clamping facilities. The mobile reaction bridge is moved by one screwed columns that assure the complete absence of external forces on valve body and an hydraulic cylinder can make pressing clamping with or without proportional control. This prerogative makes it conform to the most diffuse international test standards. In the basement, a water tank is installed as water reservoir for test procedures.

Test process is controlled by electronic PLC & LCD touch screen. Test data can be printed out on 24cln thermal printer directly in test area or be downloaded by serial connection (standard) to Windows based PC with TestREC3.0 certification software. Operator safety is granted by front protection with automatic opening.

- Reaction force : **40 TON** (see working limits table)
- Valve length max : 550 mm
- Valve length min : 50 mm
- Columns inner distance : 460 mm
- Loading height : 830 mm
- Basement water tank : 100 Liters
- Termination allowed : RF, RTJ, BW, SW
- Clamping style : Type 1 – on/off or proportional (option)
Type 2 – bore plugs.
- Clamping force control : On/off & proportional (option)
- Reference standards : ISO, DIN, API, ANSI, ASTM, FCI, BS
(Other on request).
- Filling Flow : 70L/min
- Vacuum pump : 36m³/h (Option)
- Standard flow meter : See table
- Max pressure : 700 bar (water) - 6 bar (AIR)
- Pneumatic supply : 6.5 bar @ 1100 NI/min
- Electric supply : 3PH + T, 380V@50Hz, 5KW
(other on request)
- Dimensions : 2810(L) x 600(P) x 1670(H)

Mechanical assembly options available

OM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
	●	●	●	●	●	●				●	●										

Mechanical assembly options available

OP	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

★ Working limits for **PRESS CLAMPING** and **INNER RADIAL SEAL**
ANSI VALVES, SHELL TEST

	DN	1/2"	1"	2"	3"	4"	5"	6"	8"
ANSI-150	TON								
ANSI-300	TON								
ANSI-600	TON								
ANSI-900	TON								
ANSI-1500	TON								
ANSI-2500	TON								
ANSI-4500	TON								

(*Note: Indicated values has been calculated for **shell test** and with **API-6D** nominal minimum bore size + 30mm and they have to be considered as reference only. For more accurate information please contact our technical office or consult instruction book delivered along the rig

BO30-CV/50P

Horizontal test bench

with 30° column disposal

SINGLE SCREWED COLUMN + CYLINDER
 COMBINED CLAMPING
 AUTOMATIC OPENING FRONT PROTECTION
 CONTROL VALVE ASSET



CLAMP
 TYPE
3



Horizontal test rig with combined clamping style: inner radial seal + press clamping facilities. The mobile reaction bridge is moved by one screwed columns that assure the complete absence of external forces on valve body and an hydraulic cylinder can make pressing clamping with or without proportional control. This prerogative makes it conform to the most diffuse international test standards. A Spacer of 600mm is placed on fixed bridge side to accommodate large actuator. The unit has a control panel for control pneumatic / electrical actuators. In the basement, a water tank is installed as water reservoir for test procedures. Test process is controlled by electronic PLC & LCD touch screen. Test data can be printed out on 24cln thermal printer directly in test area or be downloaded by serial connection (standard) to Windows based PC with TestREC5.4 certification software. Operator safety is granted by front protection with automatic opening.

Horizontal test bench
 30°

- Reaction force : **50 TON** (see working limits table)
- Valve length max : 620 mm
- Valve length min : 0 mm
- Columns inner distance : 590 mm
- Loading height : 885 mm
- Basement water tank : 100 Liters
- Termination allowed : RF, RTJ, BW, SW
- Clamping style : Type 1 – on/off or proportional (option)
 Type 2 – bore plugs.
- Clamping force control : On/off & proportional (option)
- Reference standards : ISO, DIN, API, ANSI, ASTM, FCI, BS
 (Other on request).
- Filling Flow : 70L/min
- Vacuum pump : 36m³/h (Option)
- Standard flow meter : See table
- Max pressure : 700 bar (water) - 6 bar (AIR)
- Pneumatic supply : 7 bar @ 2000 NI/min
- Electric supply : 3PH + T, 380V@50Hz, 5KW (other on request)
- Dimensions : 3670(L) x 600(P) x 1700(H)

TEST KIND	Fluid	MEASURE TYPE	INSTRUMENTATION
Cl. II to IV Seat leakage	WATER	Digital flow meters	Turbine flow meters: 300 - 3000 ml/min res. 2.5 cc 20L
Cl. IV Seat leakage	AIR	Digital flow meters	Mass flow meters: 1) 0,1 SLP 2) 1 SLP 3) 10 SLP 4) 100 SLP
Cl. V Seat leakage test	WATER	Water column digital flow meter	Digital water column Max height: 700 mm Resolution: 1mm (0.01 ml)
Cl. VI Seat leakage test	AIR	Bubbles counter	Digital bubbles counter: Max 3 bubbles/sec

Mechanical assembly options available

Mechanical assembly options available

OM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	OP	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	●	●	●	●	●	●				●	●												●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

***Working limits for PRESS CLAMPING and INNER RADIAL SEAL ANSI VALVES, SHELL TEST**

DN	1/2"	1"	2"	3"	4"	5"	6"	8"	10"	12"
ANSI-150 TON										
ANSI-300 TON										
ANSI-600 TON										
ANSI-900 TON										
ANSI-1500 TON										
ANSI-2500 TON										

(*Note: Indicated values has been calculated for shell test and with API-6D nominal minimum bore size + 30mm and they have to be considered as reference only. For more accurate information please contact our technical office or consult instruction book delivered along the rig

BO45-2CV/3000

Horizontal test bench

with 45° column disposal

DOUBLE SCREWED COLUMN + CYLINDER
COMBINED CLAMPING INNER RADIAL SEAL +
PROPORTIONAL PRESS CONTROL



CLAMP
TYPE
3



Test rig for valve with combined clamping style. Both pressing & bore plugs sealing style are available. It has two screwed reaction columns to setting up maximum pipe length. Reaction bridge is moved by hydraulic command. Valve load is made vertically with over head traveling crane, and final positioning is made by TWQ lifter. In the basement there is water tank protected by a step able grate.

Pressurization skid control clamping with proportional pressing to ensure minimum mechanical effort on valve castings. The rig is controlled by **SKA-2000** pressurization skid; to have more information about please consult dedicated technical data sheets. The rig could be completed with several options and accessories, please contact our sales office to have more information.

Reaction force	:	3000 TON (See working limits table)
Valve length max	:	6400 mm
Valve length min	:	1750 mm
Max valve Ø	:	2900 mm
Distance center valve/soil	:	2800 mm
Basement water vessel	:	5000 L
Camping style	:	Type 3: Combined
Reference standard	:	ISO, DIN, API, ANSI, ASTM, FCI, BS (Other on request).
Pneumatic supply	:	6.5 bar @ 2000 NI/min Dry air not lubricated
Electrical supply	:	3PH + T, 380V@50Hz, 10KW
Dimensions	:	11500(L) x 4500(P) x 5500(H)

Mechanical assembly options available

OM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

See page 98 for details

***Working limits for PRESS CLAMPING and INNER RADIAL SEAL ANSI VALVES, SHELL TEST**

	DN	20"	24"	26"	28"	30"	32"	34"	36"	40"	42"	48"	56"	60"	66"
ANSI-150	TON														
ANSI-300	TON														
ANSI-600	TON														
ANSI-900	TON														
ANSI-1500	TON														
ANSI-2500	TON														

(*Note: Indicated values has been calculated for shell test and with API-6D nominal minimum bore size + 80mm and they have to be considered as reference only. For more accurate information please contact our technical office or consult instruction book delivered along the rig

BO45-2CV/2000

Horizontal test bench

with 45° column disposal

DOUBLE SCREWED COLUMN + CYLINDER
COMBINED CLAMPING INNER RADIAL SEAL +
PROPORTIONAL PRESS CONTROL



CLAMP
TYPE
3



Horizontal test rig with combined clamping style: inner radial seal + press clamping facilities.

The mobile reaction bridge is moved by two screwed columns that assure the complete absence of external forces on valve body and an hydraulic cylinder can make pressing clamping with or without proportional control. This prerogative makes it conform to the most diffuse international test standards. In the basement, a water tank is installed as water reservoir for test procedures.

Complete flow meters set could be installed (See option) to perform Seat leakage test on control valves.

The rig is controlled by **SKA-1000** pressurization skid; to have more information about please consult dedicated technical data sheets. The rig could be completed with several options and accessories, please contact our sales office to have more information.

Horizontal test bench
45°

- Reaction force : **2000 TON**
(See working limits table)
- Valve length max : 2900 mm
- Valve length min : 0 mm
- Column inner distance : 2100
- Loading height : 2070 mm from soil - 45° inclination from soil
- Basement water tank : 2000 Litres
- Terminations allowed : BW, SW, RF, RJ
- Clamping style : Type 3 – Combined
Inner radial clamping & Pressing clamping with Proportional control.
- Reference standard : ISO, DIN, API, ANSI, ASTM, FCI, BS (Other on request).
- Electric supply : 3PH + T, 380V@50Hz, 10KW
- Dimensions : 6000(L) x 3000(P) x 3570(H)
(Mechanical structure)

Mechanical assembly options available

OM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

See page 98 for details

***Working limits for PRESS CLAMPING and INNER RADIAL SEAL ANSI VALVES, SHELL TEST**

DN	12"	14"	16"	18"	20"	24"	26"	28"	30"	32"	34"	36"	40"	42"	48"
ANSI-150 TON															
ANSI-300 TON															
ANSI-600 TON															
ANSI-900 TON															
ANSI-1500 TON															
ANSI-2500 TON															

(*Note: Indicated values has been calculated for **shell test** and with **API-6D** nominal minimum bore size + 80mm and they have to be considered as reference only. For more accurate information please contact our technical office or consult instruction book delivered along the rig

[Patent Pending]

BO45-2CV/500

Horizontal test bench

with 45° column disposal

DOUBLE SCREWED COLUMN + CYLINDER
COMBINED CLAMPING INNER RADIAL SEAL+
PROPORTIONAL PRESS CONTROL



CLAMP
TYPE
3



Horizontal test rig with combined clamping style: inner radial seal + press clamping facilities. The mobile reaction bridge is moved by two screwed columns that assure the complete absence of external forces on valve body and an hydraulic cylinder can make pressing clamping with or without proportional control. This prerogative makes it conform to the most diffuse international test standards. In the basement, a water tank is installed as water reservoir for test procedures. Complete flow meters set could be installed (See option) to perform Seat leakage test on control valves.

The rig is controlled by **SKA-500** pressurization skid; to have more information about please consult dedicated technical data sheets. The rig could be completed with several options and accessories, please contact our sales office to have more information.

- Reaction force : **500 TON**
(See working limits table)
- Valve length max : 1760 mm
- Valve length min : 0 mm
- Column inner distance : 1160
- Loading height : 800 mm from basement
1000mm from soil 45° inclination from soil
- Basement water tank : 470 Litres
- Terminations allowed : BW, SW, RF, RJ
- Clamping style : Type 3 – Combined
Inner radial clamping & Pressing clamping with Proportional control.
- Reference standard : ISO, DIN, API, ANSI, ASTM, FCI, BS (Other on request).
- Electric supply : 3PH + T, 380V@50Hz, 10KW
- Dimensions : 3450(L) x 2000(P) x 2000(H)
(Mechanical structure)

Mechanical assembly options available

OM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

See page 98 for details

***Working limits for PRESS CLAMPING and INNER RADIAL SEAL ANSI VALVES, SHELL TEST**

DN	6"	8"	10"	12"	14"	16"	18"	20"	24"
ANSI-150 TON									
ANSI-300 TON									
ANSI-600 TON									
ANSI-900 TON									
ANSI-1500 TON									
ANSI-2500 TON									

(*Note: Indicated values has been calculated for **shell test** and with **API-6D** nominal minimum bore size + 50mm and they have to be considered as reference only. For more accurate information please contact our technical office or consult instruction book delivered along the rig

BO45-2CV/400

Horizontal test bench

with 45° column disposal

DOUBLE SCREWED COLUMN + CYLINDER
COMBINED CLAMPING INNER RADIAL SEAL +
PROPORTIONAL PRESS CONTROL



CLAMP
TYPE
3



Horizontal test rig with combined clamping style: inner radial seal + press clamping facilities. The mobile reaction bridge is moved by two screwed columns that assure the complete absence of external forces on valve body and an hydraulic cylinder can make pressing clamping with or without proportional control. This prerogative makes it conform to the most diffuse international test standards. In the basement, a water tank is installed as water reservoir for test procedures. Complete flow meters set could be installed (see option) to perform seat leakage test on control valves. The rig is controlled by **SKA-100** pressurization skid; to have more information about please consult dedicated technical data sheets. The rig could be completed with several options and accessories, please contact our sales office to have more information.

Horizontal test bench
45°

- Reaction force : **400 TON**
(See working limits table)
- Valve length max : 1600 mm
- Valve length min : 0 mm
- Column inner distance : 1400
- Loading height : 1320 mm from soil
- Basement water tank : 900 Litres
- Terminations allowed : BW, SW, RF, RJ
- Clamping style : Type 3 – Combined
Inner radial clamping & Pressing clamping with Proportional control.
- Reference standard : ISO, DIN, API, ANSI, ASTM, FCI, BS (Other on request).
- Electric supply : 3PH + T, 380V@50Hz, 10KW
- Dimensions : 3450(L) x 2000(P) x 2000(H) (Mechanical structure)

Mechanical assembly options available

OM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

See page 98 for details

***Working limits for PRESS CLAMPING and INNER RADIAL SEAL ANSI VALVES, SHELL TEST**

ANSI	DN	6"	8"	10"	12"	14"	16"	18"	20"	24"
ANSI-150	TON									
ANSI-300	TON									
ANSI-600	TON									
ANSI-900	TON									
ANSI-1500	TON									
ANSI-2500	TON									

(*Note: Indicated values has been calculated for **shell test** and with **API-6D** nominal minimum bore size + 50mm and they have to be considered as reference only. For more accurate information please contact our technical office or consult instruction book delivered along the rig

[Patent Pending]

BO45-2V/850

Horizontal test bench

with 45° column disposal

DOUBLE SCREWED COLUMN
INNER RADIAL SEAL (BORE PLUGS)



Horizontal test rig with inner radial seal clamping style. The mobile reaction bridge is moved by two screwed columns that assure the complete absence of external forces on valve body. This prerogative makes it conform to the most diffuse international test standards.

The 45° columns disposal, allow the vertical loading of the valve to be tested by crane or horizontal loading by fork lifter. Be side, the vertical loading height is reduced.

In the basement, a water tank is installed as water reservoir for test procedures.

The rig is controlled by "SKM or SKA class" pressurization skid; to have more information about please consult dedicated technical data sheets. The rig could be completed with several options and accessories, please contact our sales office to have more information.

Reaction force	:	850 TON (See working limits table)
Valve length max	:	3000 mm
Valve length min	:	200 mm
Column inner distance	:	1300 mm
Loading height	:	900 mm
Basement water tank	:	1100 Liters
Lifter	:	See Option
Screw dust protection	:	See Option
Terminations allowed	:	BW, SW, RF, RJ
Clamping style	:	Type 2 – Inner radial
Reference standard	:	ISO, DIN, API, ANSI, ASTM, FCI, BS (Other on request).
Electric supply	:	3PH + T, 380V@50Hz, 7,5KW
Dimensions	:	4700(L) x 2340(P) x 2300(H)

Mechanical assembly options available

OM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

See page 98 for details

***Working limits INNER RADIAL SEAL, ANSI VALVE, SHELL TEST:**

ANSI	TON	6"	8"	10"	12"	14"	16"	18"	20"	24"	26"	28"	32"	34"	36"
ANSI-150	TON														
ANSI-300	TON														
ANSI-600	TON														
ANSI-900	TON														
ANSI-1500	TON														
ANSI-2500	TON														
ANSI-4500	TON														

*Note: Showed data has been calculated considering Shell test pressure and nominal bore size according to API-6D. For further details please contact our technical office.

BO45-2V/600

Horizontal test bench

with 45° column disposal

DOUBLE SCREWED COLUMN
INNER RADIAL SEAL



Horizontal test rig with inner radial seal clamping style. The mobile reaction bridge is moved by two screwed columns that assure the complete absence of external forces on valve body. This prerogative makes it conform to the most diffuse international test standards.

The 45° columns disposal, allow the vertical loading of the valve to be tested by crane or horizontal loading by fork lifter. Beside, the vertical loading height is reduced.

In the basement, a water tank is installed as water reservoir for test procedures.

The rig is controlled by **SKA-100** or **SKM-100** pressurization skid; to have more information about please consult dedicated technical data sheets. The rig could be completed with several options and accessories, please contact our sales office to have more information.

Horizontal test bench 45°

Reaction force	:	600 TON (See working limits table)
Valve length max	:	2500 mm
Valve length min	:	600 mm
Column inner distance	:	1300 mm
Loading height	:	1400 mm
Basement water tank	:	1000 Liters
Lifter	:	See Option
Screw dust protection	:	See Option
Terminations allowed	:	BW, SW, RF, RJ
Clamping style	:	Type 2 – Inner radial
Reference standard	:	ISO, DIN, API, ANSI, ASTM, FCI, BS (Other on request).
Electric supply	:	3PH + T, 380V@50Hz, 7,5KW
Dimensions	:	4200(L) x 2340(P) x 2300(H)

Mechanical assembly options available

OM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
	●	●	●	●	●	●	●	●	●				●	●							

See page 98 for details

***Working limits INNER RADIAL SEAL, ANSI VALVE, SHELL TEST:**

	DN	6"	8"	10"	12"	14"	16"	18"	20"	24"	26"	28"	32"
ANSI-150	TON												
ANSI-300	TON												
ANSI-600	TON												
ANSI-900	TON												
ANSI-1500	TON												
ANSI-2500	TON												
ANSI-4500	TON												

*Note: Showed data has been calculated considering Shell test pressure and nominal bore size according to API-6D. For further details please contact our technical office.

BOT-2CV/2000

Horizontal test benches for PIPE test

DOUBLE SCREWED COLUMN + CYLINDER
COMBINED CLAMPING
PROPORTIONAL PRESS CONTROL



CLAMP
TYPE
3



Test rig for valve with Combined clamping style. Both pressing & bore plugs sealing style are available. It has two screwed reaction columns to setting up maximum pipe length. Reaction bridge is moved by hydraulic command. Valve load is made vertically with over head traveling crane, and final positioning is made by two lifter. In the basement there is water tank protected by a step able grate. Pressurization skid control clamping with proportional pressing to ensure minimum mechanical effort on valve castings. The rig is controlled by **SKA-2000** pressurization skid; to have more information about please consult dedicated technical data sheets. The rig could be completed with several options and accessories, please contact our sales office to have more information.

Reaction force	:	2000 TON
Max pipe length	:	5400 mm
Min pipe length	:	750 mm
Max pipe Ø	:	2600 mm
Distance center valve/soil	:	2530 mm
Basement water vessel	:	3000L
Camping style	:	Type 3: Combined
Reference standard	:	ASTM, API, DIN
Pneumatic supply	:	6.5 bar @ 2000 NI/min Dry air not lubricated
Electrical supply	:	3PH + T, 380V@50Hz, 12KW
Dimensions	:	10500(L) x 3500(P) x 4300(H)

Mechanical assembly options available

OM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

See page 98 for details

Horizontal test benches for PIPE test

BOT-2CSV/600

RADIAL CLAMPING,
600 TON

CLAMP
TYPE
2

BOT-2CSC/1200

PROPORTIONAL
PRESS CLAMPING
1200 TON

CLAMP
TYPE
1



BOT-2CSV/600

		BOT-2CSV/600	
Reaction power	:	600 TON	
Clamping type	:	#2: External radial	
Max pipe length	:	7100 mm	
Min pipe length	:	1500 mm	
Max pipe Ø	:	1020 mm	
Distance center pipe to soil	:	1550 mm	
Basement water vessel	:	6000 L	
Reference standard	:	ASTM B862, ASTM B 861	
Max Test pressure	:	700 / 1050 bar	
Filling Flow	:	500 L/min	
Pre-filling vacuum	:	160 m³/h	
Pneumatic supply	:	6.5 bar @ 1100 NI/min Dry air not lubricated	
Electrical supply	:	3PH + T, 380V@50Hz, 5KW	
Dimensions	:	9700(L) x 2500(P) x 2180(H)	

		BOT-2CSC/1200	
Reaction power	:	1200 TON	
Clamping type	:	#1: Proportional pressing	
Max pipe length	:	12400 mm	
Min pipe length	:	2000 mm	
Max pipe Ø	:	1250 mm	
Distance center pipe to soil	:	1770 mm	
Basement water vessel	:	14000 L	
Reference standard	:	ASTM B862, ASTM B 861	
Max Test pressure	:	700 / 1050 bar	
Filling Flow	:	1000 L/min	
Pre-filling vacuum	:	160 m³/h	
Pneumatic supply	:	6.5 bar @ 1500 NI/min Dry air not lubricated	
Electrical supply	:	3PH + T, 380V@50Hz, 10KW	
Dimensions	:	15000(L) x 2720(P) x 2650(H)	

Test rig for pipes; Proportional Pressing clamping style. It has two reaction columns with sector to setting up maximum pipe length. Reaction bridge is moved by hydraulic command. Pipe load is made vertically with over head traveling crane, and final positioning is made by three lifter with centering/calibrating device included. In the basement there is water tank protected by a step able grate. Pressurization skid control clamping with proportional.

The rig is controlled by SKA-1000 pressurization skid; to have more information about please consult dedicated technical data sheets. The rig could be completed with several options and accessories, please contact our sales office to have more information.

Horizontal test bench for PIPE

Mechanical assembly options available

OM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
	●	●			●	●	●							●	●						

See page 98 for details



BOT-2CSC/1200

Mechanical assembly options available

OM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
					●	●	●	●	●					●	●						

See page 98 for details



[Patent Pending]

BV-PMC/1200

Vertical test bench

MOBILE BRIDGE
PROPORTIONAL PRESS CLAMPING



Vertical test rig with controlled pressing clamp; the press force is controlled automatically according to the water pressure inside valve, and the result load is reduced to minimal therms. Mobile upper side bridge allow vertical loading of the valve and the possibility to have double working stand; while the first is working, the second could be prepared for next piece. In the basement there is a water tank and an external water tank could be add as option. The use of a opened castle as upper side reaction structure, allow the user to make visual inspection of valve seat during the test.

The rig is controlled by **SKA-100** pressurization skid; to have more information about please consult dedicated technical data sheets. The rig could be completed with several options and accessories, please contact our sales office to have more informations.

Reaction force	:	1200 TON (see working limits table)
Working stands	:	1 (two on request)
Valve lenght max	:	1265 mm
Valve lenght min	:	265 mm
Columns inner distance	:	2900 mm
Loading plate height	:	1200 mm
Bridge course	:	2200 mm
Cylinder	:	2x Ø460/350, corsa 1000 mm
Basement water tank c.	:	350 l
External water tank	:	3000 l
Terminations allowed	:	RF, RJ
Clamping style	:	Type 1 – Proportional Compression (flange surface).
Clamping force control	:	Automatic within 5..100% interval, proportional to the hidrostatic pressure inside the valve under test. Reg. gain controlled by the operator.
Reference standards	:	ISO, DIN, API, ANSI, ASTM, FCI, BS (Other on request).
Pneumatic supply	:	6.5 bar @ 1100 NI/min
Electric supply	:	3PH + T, 380V@50Hz, 12KW
Dimensions	:	3900(L) x 3700(P) x 4920(H)

Mechanical assembly options available

OM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
				●	●	●				●						●	●	●	●	

See page 98 for details

***Working limits for PRESS Clamping, DIN VALVES, SHELL TEST**

	DN	1000	1200	1300	1400	1500	1600	1700	1800	1900	2000	2200	2400
PN-10	TON												
PN-16	TON												
PN-25	TON												
PN-40	TON												
PN-64	TON												

*Note: Showed data has been calculated considering SHELL test pressure and nominal bore size increased by 80mm. For further details please contact our technical office.

BV-PMC/850

Vertical test bench

MOBILE BRIDGE
PROPORTIONAL PRESS CLAMPING



CLAMP
TYPE
1



Vertical test rig with controlled pressing clamp; the press force is controlled automatically according to the water pressure inside valve, and the result load is reduced to minimal terms. Mobile upper side bridge allow vertical loading of the valve and the possibility to have double working stand; while the first is working, the second could be prepared for next piece. In the basement there is a water tank and an external water tank could be add as option. The use of a opened castle as upper side reaction structure (see picture), allow the user to make visual inspection of valve seat during the test. The rig is controlled by **SKA-250** pressurization skid; to have more information about please consult dedicate technical data sheet. The rig could be completed with several options and accessories, please contact our sales office to have more information.

Vertical test bench

Reaction force	: 850 TON (See working limits table)
Working stand	: 1
Allowed size	: DN500 / DN2000
Valve length max	: 1000 mm (seal adaptors included)
Valve length Min	: 250mm
Columns inner distance	: 2400 mm
Loading heigh	: 1100mm
Bridge course	: 1600 mm
Water Tank	: 3000L External
Termination allowed	: RF
Clamping style	: Type: 1 –Proportional pressing
Clamping force control	: Automatic within 10%-100% interval, proportional to hydrostatic pressure inside the valve under test.
Ref standard	: ISO, DIN, API, ANSI, ASTM, FCI, BS (Other on request).
Hydraulic test	: H2O 100 bar MAX
Pneumatic test	: 0.5 bar – 6 bar
Pneumatic supply	: 6.5 bar @ 1100 NI/min - Dry air not lubricated
Electric supply	: 3PH + T, 380V@50Hz, 10KW
Dimension	: 3100(L) x 3500(P) x 4080 (H)

Mechanical assembly options available

OM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
				●	●					●		●				●	●	●	●	

See page 98 for details

***Working limits for PRESS Clamping, DIN VALVES, SHELL TEST**

	DN	700	800	900	1000	1200	1300	1400	1500	1600	1800	2000
PN-10	TON											
PN-16	TON											
PN-25	TON											
PN-40	TON											
PN-64	TON											

*Note: Showed data has been calculated considering SHELL test pressure and nominal bore size increased by 80mm. For further details please contact our technical office.

[Patent Pending]

BV-PMC/650W

Vertical test bench

MOBILE BRIDGE
PROPORTIONAL PRESS CLAMPING



Vertical test rig with controlled pressing clamp; the press force is controlled automatically according to the water pressure inside valve, and the result load is reduced to minimal terms. Mobile upper side bridge allow vertical loading of the valve and the possibility to have double working stand; while the first is working, the second could be prepared for next piece. In the basement there is a water tank and an external water tank could be add as option. The use of a opened castle as upper side reaction structure (see picture), allow the user to make visual inspection of valve seat during the test.

The rig is controlled by **SKA-100** pressurization skid; to have more information about please consult dedicate technical data sheet. The rig could be completed with several options and accessories, please contact our sales office to have more information.

Reaction force	:	650 TON (see working limits table)
Working stands	:	1 (2 on request)
Allowed sizes	:	DN700/DN2000, PN16/PN64
Valve length max	:	750 mm
Valve length min	:	250 mm
Columns inner distance	:	2400 mm
Loading plate height	:	1000 mm
Bridge course	:	1600 mm
Basement water tank c.	:	220 Liter
Terminations allowed	:	RF, RJ
Clamping style	:	Type 1 – Proportional Compression (flange surface).
Clamping force control	:	Automatic within 5..100% interval, proportional to the hydrostatic pressure inside the valve under test.
Reference standards	:	ISO, DIN, API, ANSI, ASTM, FCI, BS (Other on request).
Pneumatic supply	:	6.5 bar @ 1100 NI/min - Dry air not lubricated
Electric supply	:	3PH + T, 380V@50Hz, 9.65KW
Dimensions	:	3100(L) x 3260(P) x 3500(H)

Mechanical assembly options available

OM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
				●	●	●				●		●				●	●	●	●	

See page 98 for details

***Working limits for PRESS Clamping, DIN VALVES, SHELL TEST**

	DN	700	800	900	1000	1200	1300	1400	1500	1600	1800	2000
PN-10	TON											
PN-16	TON											
PN-25	TON											
PN-40	TON											
PN-64	TON											

*Note: Showed data has been calculated considering SHELL test pressure and nominal bore size increased by 80mm. For further details please contact our technical office.

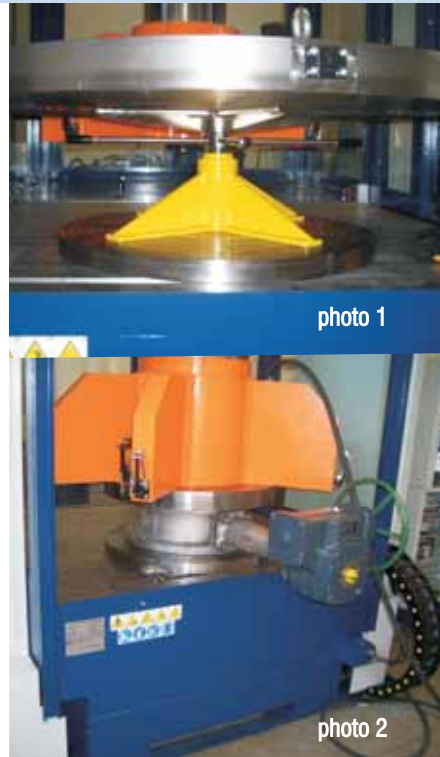
BV-PMC/650

Vertical test bench

MOBILE BRIDGE
PROPORTIONAL PRESS CLAMPING



CLAMP
TYPE
1



Vertical test rig with controlled pressing clamp; the press force is controlled automatically according to the water pressure inside valve, and the result load is reduced to minimal terms. Mobile upper side bridge allow vertical loading of the valve and the possibility to have double working stand; while the first is working, the second could be prepared for next piece. In the basement there is a water tank and an external water tank could be add as option. The use of a opened castle as upper side reaction structure (see picture), allow the user to make visual inspection of valve seat during the test.

The rig has a armoured glass protection on 3 side. Frontal side can be closed by mobile horizontal sliding gate (optional).

Upper side crociera is equipped with fast connection (photo 2) for sealing plateau, and mounting tool is included as well (photo 1).

The rig is controlled by **SKA-100** pressurization skid; to have more information about please consult dedicate technical data sheet. The rig could be completed with several options and accessories, please contact our sales office to have more information.

Vertical test bench

Reaction force	:	650 TON (see working limits table)
Working stands	:	1 (2 on request)
Allowed sizes	:	DN700/DN2000, PN16/PN64
Valve length max	:	(A) 1250 mm
Valve length min	:	(B) 200 mm
Columns inner distance	:	(C) 1600 mm
Loading plate height	:	(D) 1000 mm
Bridge course	:	(E) 1300 mm
Basement water tank c.	:	220 Liter
Terminations allowed	:	RF, RJ
Clamping style	:	Type 1 – Proportional Compression (flange surface).
Clamping force control	:	Automatic within 5..100% interval, proportional to the hydrostatic pressure inside the valve under test.
Protection against water jet	:	Armoured glass on 3 side + front door on request
Reference standards	:	ISO, DIN, API, ANSI, ASTM, FCI, BS (Other on request).
Pneumatic supply	:	6.5 bar @ 1100 Nl/min - Dry air not lubricated
Electric supply	:	3PH + T, 380V@50Hz, 10KW
Dimensions	:	2350(L) x 2900(P) x 4240(H)

Mechanical assembly options available

OM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
				●	●	●				●	●	●			●	●	●	●	●	●

See page 98 for details

***Working limits for PRESS Clamping, DIN VALVES, SHELL TEST**

	DN	12"	14"	16"	18"	20"	24"	26"	28"	30"	32"	36"	40"	42"	48"
ANSI-150 TON															
ANSI-300 TON															
ANSI-600 TON															
ANSI-900 TON															
ANSI-1500 TON															
ANSI-2500 TON															

*Note: Showed data has been calculated considering SHELL test pressure and nominal bore size increased by 50mm. For further details please contact our technical office.

[Patent Pending]

BV-PMC/550

Vertical test bench

MOBILE BRIDGE
PROPORTIONAL PRESS CLAMPING



Vertical test rig with controlled pressing clamp; the press force is controlled automatically according to the water pressure inside valve, and the result load is reduced to minimal terms. Mobile upper side bridge allow vertical loading of the valve and the possibility to have double working stand; while the first is working, the second could be prepared for next piece. In the basement there is a water tank and an external water tank could be add as option. The use of a opened castle as upper side reaction structure (see picture), allow the user to make visual inspection of valve seat during the test. The rig is controlled by **SKA-100** pressurization skid; to have more information about please consult dedicate technical data sheet. The rig could be completed with several options and accessories, please contact our sales office to have more information.

Reaction force	:	550 TON (see working limits table)
Working stands	:	1 (2 on request)
Valve length max	:	1500 mm
Valve length min	:	700 mm
Columns inner distance	:	2200 mm
Loading plate height	:	1000 mm
Bridge course	:	1250 mm
Cylinder	:	Ø400/280, stoke 800 mm
Basement water tank c.	:	220 Liter
Terminations allowed	:	RF, RJ
Clamping style	:	Type 1 – Proportional Compression (flange surface).
Clamping force control	:	Automatic within 5..100% interval, proportional to the hydrostatic pressure inside the valve under test. Reg. gain controlled by the operator.
Reference standards	:	ISO, DIN, API, ANSI, ASTM, FCI, BS (Other on request).
Pneumatic supply	:	6.5 bar @ 1100 NI/min
Electric supply	:	3PH + T, 380V@50Hz, 12KW
Dimensions	:	3020(L) x 2200(P) x 4200(H)

Mechanical assembly options available

OM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
				●	●	●					●		●			●	●	●	●	

See page 98 for details

★Working limits for PRESS Clamping, DIN VALVES, SHELL TEST

	DN	600	700	800	900	1000	1200	1300	1400	1500	1600	1800	2000
PN-10	TON												
PN-16	TON												
PN-25	TON												
PN-40	TON												
PN-64	TON												

*Note: Showed data has been calculated considering SHELL test pressure and nominal bore size increased by 80mm. For further details please contact our technical office.

BV-PMC/500

Vertical test bench

MOBILE BRIDGE
PROPORTIONAL PRESS CLAMPING



CLAMP
TYPE
1



Vertical test rig with proportional pressing clamp; the press force is controlled automatically according to the water pressure inside valve, and the result load is reduced to minimal terms. Mobile upper side bridge allow vertical loading of the valve and the possibility to have double working stand; while the first is working, the second could be prepared for next piece. In the basement there is a water tank and an external water tank could be add as option. The use of a opened castle as upper side reaction structure, allow the user to make visual inspection of valve seat during the test.

The rig is controlled by **SKA-100** pressurization skid; to have more information about please consult dedicated technical data sheets. The rig could be completed with several options and accessories, please contact our sales office to have more information.

Vertical test bench

Reaction force	: 500 TON (see working limits table)
Working stands	: 1 (2 on request)
Allowed sizes	: DN600/DN1400, PN16/PN64
Valve length max	: (A) 1140 mm
Valve length min	: (B) 200 mm
Columns inner distance	: (C) 1750 mm
Loading plate height	: (D) 1000 mm
Bridge course	: (E) 850 mm
Cylinder	: Ø430/300, course 430 mm
Basement water tank c.	: 220 Liters
Terminations allowed	: RF, RJ
Clamping style	: Type 1 – Proportional Compression (flange surface).
Clamping force control	: Automatic within 5..100% interval, proportional to the hydrostatic pressure inside the valve under test.
Reference standards	: ISO, DIN, API, ANSI, ASTM, FCI, BS (Other on request).
Pneumatic supply	: 6.5 bar @ 1100 NI/min Dry air not lubricated
Electric supply	: 3PH + T, 380V@50Hz, 9.65KW (11.15 KW with vacuum pump)
Dimensions	: 2300(L) x 2000(P) x 2800(H)

Mechanical assembly options available

OM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
				●	●	●				●		●			●	●	●	●		

See page 98 for details

***Working limits for PRESS Clamping, DIN VALVES, SHELL TEST**

	DN	600	700	800	900	1000	1200	1300	1400
PN-10	TON								
PN-16	TON								
PN-25	TON								
PN-40	TON								
PN-64	TON								

*Note: Showed data has been calculated considering SHELL test pressure and nominal bore size increased by 50mm. For further details please contact our technical office.

[Patent Pending]

BV-PMC/500S Vertical test bench

MOBILE BRIDGE
PROPORTIONAL PRESS CLAMPING



Vertical test rig with controlled pressing clamp; the press force is controlled automatically according to the water pressure inside valve, and the result load is reduced to minimal terms. Mobile upper side bridge allow vertical loading of the valve and the possibility to have double working stand; while the first is working, the second could be prepared for next piece. In the basement there is a water tank and an external water tank could be add as option. The use of a opened castle as upper side reaction structure (see picture), allow the user to make visual inspection of valve seat during the test.

The rig has a armoured steel protection on 3 side. Frontal side can be closed by mobile horizontal sliding gate (optional). The rig is controlled by **SKA-100** pressurization skid; to have more information about please consult dedicate technical data sheet. The rig could be completed with several options and accessories, please contact our sales office to have more information.

Reaction force	:	500 TON (see working limits table)
Working stands	:	1 (2 on request)
Valve length max	:	700 mm
Valve length min	:	200 mm
Columns inner distance	:	1000 mm
Loading plate height	:	1000 mm
Bridge course	:	850mm
Basement water tank c.	:	150 Liters
Terminations allowed	:	RF, RJ
Clamping style	:	Type 1 – Proportional Compression (flange surface).
Clamping force control	:	Automatic within 5..100% interval, proportional to the hydrostatic pressure inside the valve under test.
Protection against water jet	:	Armoured steel on 3 side + mobile front door
Reference standards	:	ISO, DIN, API, ANSI, ASTM, FCI, BS (Other on request).
Pneumatic supply	:	6.5 bar @ 1100 NI/min - Dry air not lubricated
Electric supply	:	3PH + T, 380V@50Hz, 10KW
Dimensions	:	1460(L) x 2360P) x 2600H)

Mechanical assembly options available

OM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
				●	●	●				●	●	●	●			●	●	●	●	

See page 98 for details

***Working limits for PRESS Clamping, ANSI VALVES, SHELL TEST**

	DN	6"	8"	10"	12"	14"	16"	18"	20"	24"
ANSI-150	TON									
ANSI-300	TON									
ANSI-600	TON									
ANSI-900	TON									
ANSI-1500	TON									
ANSI-2500	TON									

*Note: Showed data has been calculated considering SHELL test pressure and nominal bore size increased by 50mm. For further details please contact our technical office.

BV-PMC/350

Vertical test bench

MOBILE BRIDGE
PROPORTIONAL PRESS CLAMPING



CLAMP
TYPE
1



Vertical test rig with controlled pressing clamp; the press force is controlled automatically according to the water pressure inside valve, and the result load is reduced to minimal terms. Mobile upper side bridge allow vertical loading of the valve and the possibility to have double working stand; while the first is working, the second could be prepared for next piece. In the basement there is a water tank and an external water tank could be add as option. The use of a opened castle as upper side reaction structure, allow the user to make visual inspection of valve seat during the test.

The rig is controlled by **SKA-100** pressurization skid; to have more information about please consult dedicated technical data sheets. The rig could be completed with several options and accessories, please contact our sales office to have more information.

Vertical test bench

- Reaction force : **350 TON** (see working limits table)
- Working stands : 1 (2 on request)
- Valve lenght max : 1280 mm
- Valve lenght min : 180 mm
- Columns inner distance : 1620 mm
- Loading plate height : 900 mm
- Bridge course : 780 mm
- Basement water tank c. : 200 Liters
- Terminations allowed : RF, RJ
- Clamping style : Type 1 – Proportional Compression (flange surface).
- Clamping force control : Automatic within 5..100% interval, proportional to the hydrostatic pressure inside the valve under test.
- Reference standards : ISO, DIN, API, ANSI, ASTM, FCI, BS (Other on request).
- Pneumatic supply : 6.5 bar @ 1100 NI/min - Dry air not lubricated
- Electric supply : 3PH + T, 380V@50Hz, 12KW
- Dimensions : 2140(L) x 1700(P) x 4050(H)

Mechanical assembly options available

OM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
				●	●	●				●		●	●			●	●	●	●	

See page 98 for details

***Working limits for PRESS Clamping, DIN VALVES, SHELL TEST**

	DN	300	350	400	450	500	600	700	800	900	1000	1200
PN-10	TON											
PN-16	TON											
PN-25	TON											
PN-40	TON											

*Note: Showed data has been calculated considering SHELL test pressure and nominal bore size increased by 50mm. For further details please contact our technical office.

[Patent Pending]

BV-PMC/200-2
**Vertical
 test bench**

DOUBLE LOADING PLACES
 MOBILE BRIDGE
 PROPORTIONAL PRESS CLAMPING



Vertical test rig with controlled pressing clamp; the press force is controlled automatically according to the water pressure inside valve, and the result load is reduced to minimal terms. Mobile upper side bridge allow vertical loading of the valve and the possibility to have double working stand; while the first is working, the second could be prepared for next piece. In the basement there is a water tank and an external water tank could be add as option. The use of a opened castle as upper side reaction structure (see picture), allow the user to make visual inspection of valve seat during the test.

The rig has a armoured steel protection on 3 side. Frontal side can be closed by mobile horizontal sliding gate (optional). The rig is controlled by **SKA-100** pressurization skid; to have more information about please consult dedicate technical data sheet. The rig could be completed with several options and accessories, please contact our sales office to have more information.

- Reaction force : **200 TON** (see working limits table)
- Working stands : 1 (2 on request)
- Valve lenght max : 970 mm
- Valve lenght min : 100 mm
- Columns inner distance : 1200 mm
- Loading plate height : 900 mm
- Bridge course : 900 mm
- Basement water tank c. : 200 Liters
- Terminations allowed : RF, RJ
- Clamping style : Type 1 – Proportional Compression (flange surface).
- Clamping force control : Automatic within 5..100% interval, proportional to the hydrostatic pressure inside the valve under test.
- Reference standards : ISO, DIN, API, ANSI, ASTM, FCI, BS (Other on request).
- Pneumatic supply : 6.5 bar @ 1100 NI/min - Dry air not lubricated
- Electric supply : 3PH + T, 380V@50Hz, 12KW
- Dimensions : 1600(L) x 1900(P) x 3000(H)

Mechanical assembly options available

OM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
				●	●	●				●	●	●	●	●	●	●	●	●	●	●

See page 98 for details

***Working limits for PRESS Clamping, DIN VALVES, SHELL TEST**

	DN	100	150	200	250	300	350	400	450	500	600	700	800	900
PN-10	TON													
PN-16	TON													
PN-20	TON													
PN-25	TON													
PN-40	TON													
PN-64	TON													
PN-100	TON													

*Note: Showed data has been calculated considering SHELL test pressure and nominal bore size increased by 50mm. For further details please contact our technical office.

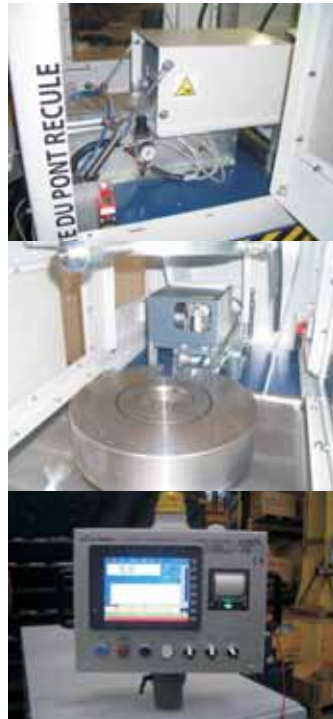
BV-PMC/200S

Vertical test bench

MOBILE BRIDGE
PROPORTIONAL PRESS CLAMPING
WITH AUTOMATIC VALVE MARKING
MICRO-PERCUSSION



CLAMP
TYPE
1



Vertical test rig with controlled pressing clamp; the press force is controlled automatically according to the water pressure inside valve, and the result load is reduced to minimal terms. Mobile upper side bridge allow vertical loading of the valve. In the basement there is a water tank and an external water tank could be add as option. The use of a opened castle as upper side reaction structure (see picture), allow the user to make visual inspection of valve seat during the test. The rig has a armoured steel protection on 3 side. Frontal side can be closed by mobile horizontal sliding gate (optional). A marking machine is connected directly to control PLC to mark serial number un tested pieces. The rig is controlled by **SKA-100** pressurization skid; to have more information about please consult dedicate technical data sheet. The rig could be completed with several options and accessories, please contact our sales office to have more information.

Vertical test bench

Reaction force	:	200 TON (See working limits table)
Valve length max	:	450 mm
Valve length Min	:	50mm
DN min-max	:	DN1" – DN 20"
Loading heigh	:	950mm
Water Tank	:	300L External
Termination allowed	:	RF, RTJ
Clamping style	:	Type: 1 –Proportional pressing
Clamping force control	:	Automatic within 5%-100% interval, proportional to hydrostatic pressure inside the valve under test.
Protection against water jet	:	armoured steel 3 side + mobile front door
Ref standard	:	ISO, DIN, API, ANSI, ASTM, FCI, BS (Other on request).
Hydraulic test	:	H2O 700 bar MAX
Pneumatic test	:	0.5 bar – 6 bar
Pneumatic supply	:	6.5 bar @ 1100 NI/min - Dry air not lubricated
Electric supply	:	3PH + T, 380V@50Hz, 10KW
Dimension	:	1100(L) x 1325 (P) x 2020 (H)

Mechanical assembly options available

OM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
				●	●	●					●	●	●	●	●	●	●	●	●	●	●

See page 98 for details

***Working limits for PRESS Clamping, ANSI VALVES, SHELL TEST**

	DN	4"	6"	8"	10"	12"	14"	16"	18"	20"
ANSI-150	TON									
ANSI-300	TON									
ANSI-600	TON									
ANSI-900	TON									
ANSI-1500	TON									
ANSI-2500	TON									

*Note: Showed data has been calculated considering SHELL test pressure and nominal bore size increased by 50mm. For further details please contact our technical office.

[Patent Pending]

BV-PMC/120L Vertical test bench

MOBILE BRIDGE
PROPORTIONAL PRESS CLAMPING



Vertical test rig with controlled pressing clamp; the press force is controlled automatically according to the water pressure inside valve, and the result load is reduced to minimal terms. Mobile upper side bridge allow vertical loading of the valve and the possibility to have double working stand; while the first is working, the second could be prepared for next piece. In the basement there is a water tank and an external water tank could be add as option. The use of a opened castle as upper side reaction structure (see picture), allow the user to make visual inspection of valve seat during the test.

The rig has a armoured steel protection on 3 side. Frontal side can be closed by mobile horizontal sliding gate (optional). A marking machine is connected directly to control PLC to mark serial number un tested pieces. The rig is controlled by SKA-100 pressurization skid; to have more information about please consult dedicate technical data sheet. The rig could be completed with several options and accessories, please contact our sales office to have more information

Reaction force	:	120 TON (See working limits table)
Valve length max	:	450 mm
Valve length Min	:	50mm
Max valve flange Diameter	:	1290mm
DN min-max	:	DN100 – DN 900
Loading heigh	:	850mm
Water Tank	:	300L External
Termination allowed	:	RF, RTJ
Clamping style: Type	:	1 –Proportional pressing
Clamping force control	:	Automatic within 5%-100% interval, proportional to hydrostatic pressure inside the valve under test.
Protection against water jet:	:	armored steel 3 side + mobile front door
Reference standards	:	ISO, DIN, API, ANSI, ASTM, FCI, BS (Other on request).
Hydraulic test	:	H2O 200 bar MAX (Other on request)
Pneumatic test	:	0.5 bar – 6 bar
Pneumatic supply	:	6.5 bar @ 1100 NI/min - Dry air not lubricated
Electric supply	:	3PH + T, 380V@50Hz, 10KW
Dimensions	:	1730(L) x 2450 (P) x 2380 (H)

Mechanical assembly options available

OM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
				●	●	●				●	●	●	●	●	●	●	●	●	●	●

See page 98 for details

***Working limits PRESS CLAMPING, ANSI VALVES SHELL TEST**

DN	6"	8"	10"	12"	14"	16"	18"	20"	24"
ANSI-150 TON									
ANSI-300 TON									
ANSI-600 TON									
ANSI-900 TON									
ANSI-1500 TON									
ANSI-2500 TON									

***Working limits PRESS CLAMPING, DIN VALVES SHELL TEST**

DN	50	100	150	200	250	300	350	400	450	500	600
PN-10 TON											
PN-16 TON											
PN-25 TON											
PN-40 TON											
PN-64 TON											
PN-100 TON											

*Note: Showed data has been calculated considering SHELL test pressure and nominal bore size increased by 50mm. For further details please contact our technical office.

BV-PMC/100-2

Vertical test bench

DOUBLE LOADING PLACES
MOBILE BRIDGE
PROPORTIONAL PRESS CLAMPING



CLAMP
TYPE
1



Vertical test rig with controlled pressing clamp; the press force is controlled automatically according to the water pressure inside valve, and the result load is reduced to minimal terms. Mobile upper side bridge allow vertical loading of the valve and the possibility to have double working stand; while the first is working, the second could be prepared for next piece. In the basement there is a water tank and an external water tank could be add as option. The use of a opened castle as upper side reaction structure, allow the user to make visual inspection of valve seat during the test. The rig is controlled by **SKA-100** pressurization skid; to have more information about please consult dedicated technical data sheets. The rig could be completed with several options and accessories, please contact our sales office to have more information.

Vertical test bench

- Reaction force : **100 TON**
(See working limits table)
- Working stands : 2
- Valve length max : 650 mm
- Vave length min : 150 mm
- Columns inner distance : 800 mm
- Loading height : 750 mm
- Bridge course : 900 mm
- Cylinder : Ø200/140, stroke 500 mm
- Basement water tank : 220 Liters
- Terminations allowed : BW, SW, RF, RJ
- Clamping style : Type 1 – Proportional Compression (flange surface).
- Clamping force control : Automatic within 5..100% interval, proportional to the hydrostatic pressure inside the valve under test.
- Reference standards : ISO, DIN, API, ANSI, ASTM, FCI, BS (Other on request).
- Pneumatic supply : 6.5 bar @ 1100 NI/min - Dry air not lubricated

Mechanical assembly options available

OM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
				●	●	●				●	●	●			●	●	●	●	●	●

See page 98 for details

***Working limits PRESS CLAMPING, ANSI VALVES SHELL TEST**

	DN	6"	8"	10"	12"	14"	16"	18"	20"	24"
ANSI-150	TON									
ANSI-300	TON									
ANSI-600	TON									
ANSI-900	TON									
ANSI-1500	TON									
ANSI-2500	TON									

***Working limits PRESS CLAMPING, DIN VALVES SHELL TEST**

	DN	50	100	150	200	250	300	350	400	450	500	600
PN-10	TON											
PN-16	TON											
PN-25	TON											
PN-40	TON											
PN-64	TON											
PN-100	TON											

*Note: Showed data has been calculated considering SHELL test pressure and nominal bore size increased by 50mm. For further details please contact our technical office.

[Patent Pending]

BV-PMC/100

Vertical test bench

MOBILE BRIDGE
PROPORTIONAL PRESS CLAMPING



CLAMP
TYPE
1



Vertical test rig with controlled pressing clamp; the press force is controlled automatically according to the water pressure inside valve, and the result load is reduced to minimal terms. Mobile upper side bridge allow vertical loading of the valve and the possibility to have double working stand; while the first is working, the second could be prepared for next piece. In the basement there is a water tank and an external water tank could be add as option. The use of a opened castle as upper side reaction structure (see picture), allow the user to make visual inspection of valve seat during the test.

The rig is controlled by **SKA-100** pressurization skid; to have more information about please consult dedicate technical data sheet. The rig could be completed with several options and accessories, please contact our sales office to have more information.

- Reaction force : **100 TON** (See working limits table)
- Valve length max : 270 mm
- Valve length Min : 0mm
- DN min-max : DN2" – DN 24"
- Loading height : 910 mm
- Water Tank : 300L External
- Termination allowed : RF, RTJ, Wafer
- Clamping style : Type: 1 –Proportional pressing
- Clamping force control : Automatic within 10%-100% interval, proportional to hydrostatic pressure inside the valve under test.
- Protection against water jet : available on request.
- Ref standard : ISO, DIN, API, ANSI, ASTM, FCI, BS (Other on request).
- Hydraulic test : H2O 700 bar (other on request)
- Pneumatic test : 0.5 bar – 6 bar
- Pneumatic supply : 6.5 bar @ 1100 NI/min - Dry air not lubricated
- Electric supply : 3PH + T, 380V@50Hz, 12KW
- Dimension : 1260(L) x 1925 (P) x 2110(H)

Mechanical assembly options available

OM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
				●	●	●				●	●	●				●	●	●		

See page 98 for details

***Working limits PRESS CLAMPING, ANSI VALVES SHELL TEST**

DN	6"	8"	10"	12"	14"	16"	18"	20"	24"
ANSI-150 TON									
ANSI-300 TON									
ANSI-600 TON									
ANSI-900 TON									
ANSI-1500 TON									
ANSI-2500 TON									

***Working limits PRESS CLAMPING, DIN VALVES SHELL TEST**

DN	50	100	150	200	250	300	350	400	450	500	600
PN-10 TON											
PN-16 TON											
PN-25 TON											
PN-40 TON											
PN-64 TON											
PN-100 TON											

*Note: Showed data has been calculated considering SHELL test pressure and nominal bore size increased by 50mm. For further details please contact our technical office.

BV-PMV/600

Vertical test bench

SINGLE SCREWED COLUMN
INNER RADIAL SEAL
(BORE PLUGS)



CLAMP
TYPE
2



Vertical test rig with inner radial seal clamping style. The mobile reaction bridge is moved by one screwed column that assure the complete absence of external forces on valve body. This prerogative makes it conform to the most diffuse international test standards. In the basement, a water tank could be installed as water reservoir for test procedures (see Option).

The rig is controlled by **SKM-100** pressurization skid; to have more information about please consult dedicated technical data sheets. The rig could be completed with several options and accessories, please contact our sales office to have more information.

Vertical test bench

Reaction force	:	600 TON (See working limits table)
Valve length max	:	3000 mm
Valve length min	:	700 mm
Column inner distance	:	1720 mm
Basement water tank	:	300 Liters ca.
Terminations allowed	:	BW, SW, RF, RJ
Clamping style	:	Type 2 – Inner radial
Reference standard	:	ISO, DIN, API, ANSI, ASTM, FCI, BS (Other on request).
Electric supply	:	3PH + T, 380V@50Hz, 10KW
Dimensions	:	2420 (L) x 3250 (P) x 7350 (H)

Mechanical assembly options available

OM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
				●	●	●				●	●	●	●	●	●	●	●	●	●	●	●

See page 98 for details

***EXAMPLE for Operative limits with BORE PLUG CLAMPING STYLE**

	DN	10"	12"	14"	16"	18"	20"	24"	28"	30"	32"	36"
ANSI-150	TON											
ANSI-300	TON											
ANSI-600	TON											
ANSI-900	TON											
ANSI-1500	TON											
ANSI-2500	TON											

*Note: Showed data has been calculated considering Shell test pressure and nominal bore size according to API-6D. For further details please contact our technical office.

[Patent Pending]

BV-PMV/350

Vertical test bench

SINGLE SCREWED COLUMN
INNER RADIAL SEAL
(BORE PLUGS)



Vertical test rig with inner radial seal clamping style. The mobile reaction bridge is moved by one screwed column that assure the complete absence of external forces on valve body. This prerogative makes it conform to the most diffuse international test standards. In the basement, a water tank could be installed as water reservoir for test procedures (see Option).

The rig is controlled by **SKM-100** pressurization skid; to have more information about please consult dedicated technical data sheets. The rig could be completed with several options and accessories, please contact our sales office to have more information.

- Reaction force : **350 TON**
(See working limits table)
- Valve length max : 1200 mm
- Valve length min : 0 mm
- Column inner distance : 650 mm
- Basement water tank : 300 Liters ca.
- Terminations allowed : BW, SW, RF, RJ
- Clamping style : Type 2 – Inner radial
- Reference standard : ISO, DIN, API, ANSI, ASTM, FCI, BS (Other on request).
- Electric supply : 3PH + T, 380V@50Hz, 7KW
- Dimensions : 1140 (L) x 1880(P) x 4100 (H)

Mechanical assembly options available

OM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	●	●	●	●	●	●						●	●	●	●	●	●	●	●	●

See page 98 for details

***Working limits INNER RADIAL SEAL, ANSI VALVE, SHELL TEST:**

	DN	2"	3"	4"	5"	6"	8"	10"	12"
ANSI-150	TON								
ANSI-300	TON								
ANSI-600	TON								
ANSI-900	TON								
ANSI-1500	TON								
ANSI-2500	TON								

*Note: Showed data has been calculated considering Shell test pressure and nominal bore size according to API-6D. For further details please contact our technical office.

BV-2V/800

Vertical test bench

DOUBLE SCREWED COLUMN
INNER RADIAL SEAL
(BORE PLUGS)



CLAMP
TYPE
2



Vertical test rig with inner radial seal clamping style. The mobile reaction bridge is moved by two screwed columns that assure the complete absence of external forces on valve body. This prerogative makes it conform to the most diffuse international test standards.

The rig is controlled by **SKA-100** pressurization skid; to have more information about please consult dedicated technical data sheets. The rig could be completed with several options and accessories, please contact our sales office to have more information.

Vertical test bench

Reaction force	:	800 TON (See working limits table)
Valve length max	:	2000 mm
Valve length min	:	250 mm
Columns inner distance	:	1350 mm
Loading height	:	1400 mm
Terminations allowed	:	BW, SW, RF, RJ
Clamping style	:	Type 2 – Inner radial
Reference standard	:	ISO, DIN, API, ANSI, ASTM, FCI, BS (Other on request).
Electric supply	:	3PH + T, 380V@50Hz, 7KW
Dimensions	:	2290(L) x 2400(P) x 3770(H)

Mechanical assembly options available

OM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	●	●	●	●	●	●							●	●	●	●	●	●	●	●

See page 98 for details

***Working limits INNER RADIAL SEAL, ANSI VALVE, SHELL TEST:**

	DN	6"	8"	10"	12"	14"	16"	18"	20"	24"	26"	28"	32"	36"
ANSI-150	TON													
ANSI-300	TON													
ANSI-600	TON													
ANSI-900	TON													
ANSI-1500	TON													
ANSI-2500	TON													
ANSI-4500	TON													

*Note: Showed data has been calculated considering Shell test pressure and nominal bore size according to API-6D. For further details please contact our technical office.

BV-1V/200

Vertical test bench

SINGLE SCREWED COLUMN
INNER RADIAL SEAL
(BORE PLUGS)



Vertical test rig with inner radial seal clamping style. The mobile reaction bridge is moved by one screwed column that assure the complete absence of external forces on valve body. This prerogative makes it conform to the most diffuse international test standards. In the basement, a water tank could be installed as water reservoir for test procedures (see Option). The rig is controlled by **SKM-100** pressurization skid; to have more information about please consult dedicated technical data sheets. The rig could be completed with several options and accessories, please contact our sales office to have more information.

Reaction force	:	200 TON (See working limits table)
Valve length max	:	1000 mm
Valve length min	:	100 mm
Column inner distance	:	900 mm
Terminations allowed	:	BW, SW, RF, RJ
Clamping style	:	Type 2 – Inner radial
Reference standard	:	ISO, DIN, API, ANSI, ASTM, FCI, BS (Other on request).
Electric supply	:	3PH + T, 380V@50Hz, 7KW
Dimensions	:	1340 (L) x 1790(P) x 3240 (H)

Mechanical assembly options available

OM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	●	●	●	●	●	●						●	●	●	●	●	●	●	●	●

See page 98 for details

***Working limits INNER RADIAL SEAL, ANSI VALVE, SHELL TEST:**

	DN	2"	4"	6"	8"	10"	12"	14"	16"	20"
ANSI-150	TON									
ANSI-300	TON									
ANSI-600	TON									
ANSI-900	TON									
ANSI-1500	TON									
ANSI-2500	TON									

*Note: Showed data has been calculated considering Shell test pressure and nominal bore size according to API-6D. For further details please contact our technical office.

BV-CV/100

Vertical test bench

COMBINED CLAMPING
INNER RADIAL SEAL + PROPORTIONAL
PRESS CLAMPING



CLAMP
TYPE
3



Vertical test rig with combined clamping style: inner radial seal + press clamping facilities. The mobile reaction bridge is moved by screwed column that assure the complete absence of external forces on valve body and an hydraulic cylinder can make pressing clamping with or without proportional control. This prerogative makes it conform to the most diffuse international test standards. In the basement, a water tank could be installed as water reservoir for test procedures (see Option). The rig is controlled by **SKA-100** pressurization skid; to have more information about please consult dedicated technical data sheets. The rig could be completed with several options and accessories, please contact our sales office to have more information.

Vertical test bench

- Reaction force : **100 TON** (See working limits table)
- Valve length max : 1000 mm
- Valve length min : 0 mm
- Column inner distance : 900
- Basement water tank : 300 Litres
- Terminations allowed : BW, SW, RF, RJ
- Clamping style : Type 3 – Combined
Inner radial clamping & Pressing clamping with Proportional control.
- Reference standard : ISO, DIN, API, ANSI, ASTM, FCI, BS (Other on request).
- Electric supply : 3PH + T, 380V@50Hz, 7KW
- Dimensions : 1400(L) x 900(P) x 2500(H) (Mechanical structure)
- Dimensions : 2290(L) x 2400(P) x 3770(H)

Mechanical assembly options available

OM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	●	●	●	●	●	●				●	●	●	●	●	●	●	●	●	●	●

See page 98 for details

***Working limits for PRESS CLAMPING and INNER RADIAL SEAL ANSI VALVES, SHELL TEST**

ANSI-150 TON	ANSI-300 TON	ANSI-600 TON	ANSI-900 TON	ANSI-1500 TON	ANSI-2500 TON	DN	2"	4"	6"	8"	10"	12"	14"	16"	18"	

(*Note: Indicated values has been calculated for **shell test** and with **API-6D** nominal minimum bore size + 50mm and they have to be considered as reference only. For more accurate information please contact our technical office or consult instruction book delivered along the rig

[Patent Pending]

BV-CCV/20

Vertical test bench

PRESS CLAMPING
PROPORTIONAL CONTROL
AUTOMATIC TEST
VALVE ACTUATOR



CLAMP
TYPE
3



Fully automatic vertical test rig with controlled pressing clamp; the press force is controlled automatically according to the water pressure inside valve, and the result load is reduced to minimal terms. It has a 90° hydraulic actuator, that let it move the valve accord to the test sequence. The high resolution differential pressure drop leak detection is used to measure leak rate according to DIN 12266-1 for GAS leakage. A mobile loading plate makes loading operations simple. A mobile vertical protection assures operator's safety in case of seal blow. An electronic PLC control all test operations, and the operator has a LCD touch screen monitor to set-up test sequence.

Reaction force	:	20 TON (see working limits table)
Valve length max	:	505 mm
Valve length min	:	30 mm
DN min – MAX	:	DN20...DN200
Loading height	:	900 mm
Water tank	:	External 220 Liters
Terminations allowed	:	BW, SW, RF, RJ
Clamping style	:	Type 1 – Proportional Compression (flange surface).
Clamping force control	:	Automatic within 5..100% interval, proportional to the hydrostatic pressure inside the valve under test. Reg. gain controlled by the operator.
Reference standards	:	ISO, DIN, API, ANSI, ASTM, FCI, BS (Other on request).
Hydraulic test	:	H2O w/oil 5% , 3-40bar (200bar, 650bar, as option)
Pneumatic test	:	0,5 – 6 bar
Pneumatic supply	:	6.5 bar @ 1100 NI/min - Dry air not lubricated
Electric supply	:	3PH + T, 380V@50Hz, 5KW
Dimensions	:	1550(L) x 1050(P) x 2250(H)

Mechanical assembly options available

OM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	●	●	●	●	●	●				●	●	●	●	●	●	●	●	●	●	●

See page 98 for details

***Working limits for PRESS CLAMPING and INNER RADIAL SEAL
DIN VALVES, SHELL TEST**

	DN	50	100	125	150	200
PN-10	TON					
PN-16	TON					
PN-25	TON					
PN-40	TON					
PN-64	TON					
PN-100	TON					

(*Note: Indicated values has been calculated for **shell test** and with **API-6D** nominal minimum bore size + 30mm and they have to be considered as reference only. For more accurate information please contact our technical office or consult instruction book delivered along the rig

BV-CCV/15

Vertical test bench

PRESS CLAMPING
PROPORTIONAL CONTROL
AUTOMATIC TEST



CLAMP
TYPE
3



Vertical test rig with automatic test sequence. Combined clamping style: Proportional press clamping & inner radial seals. A protection against water jets surround the valve under test and it is automatically controlled with pneumatic cylinders. An PLC control test sequence that can be configured by a LCD touch screen. Full automatic test cycle with leakage flange measuring (water fail)

Vertical test bench

- Reaction force : **15 TON** (See working limits table)
- Valve length max : 590 mm
- Valve length Min : 50mm
- DN min-max : DN1" – DN 8"
- Loading height : 900mm
- Water Tank : 300L External
- Termination allowed : BW, SW, RF, RTJ
- Clamping style : Type: 3 – Combined: Proportional pressing & inner radial seal (bore plugs)
- Clamping force control : Automatic within 5%-100% interval, proportional to hydrostatic pressure inside the valve under test.
- Reference standards : ISO, DIN, API, ANSI, ASTM, FCI, BS (Other on request).
- Hydraulic test : H2O 700 bar MAX
- Pneumatic test : 0.5 bar – 6 bar
- Pneumatic supply : 6.5 bar @ 1100 NI/min - Dry air not lubricated
- Electric supply : 3PH + T, 380V@50Hz, 5KW
- Dimension : 730(L) x 1010 (P) x 2340 (H)

Mechanical assembly options available

OM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	●	●	●	●	●	●				●	●	●	●	●	●	●	●	●	●	●

See page 98 for details

***Working limits for PRESS CLAMPING and INNER RADIAL SEAL ANSI VALVES, SHELL TEST**

	DN	1"	2"	3"	4"	6"	8"
ANSI-150	TON						
ANSI-300	TON						
ANSI-600	TON						
ANSI-900	TON						
ANSI-1500	TON						
ANSI-2500	TON						

(*Note: Indicated values has been calculated for shell test and with API-6D nominal minimum bore size + 30mm and they have to be considered as reference only. For more accurate information please contact our technical office or consult instruction book delivered along the rig

[Patent Pending]

BV-3V/360

Multiple stations test bench

INNER RADIAL SEAL (BORE PLUGS)
3 LOADING TRAY



Vertical test rig with inner radial seal clamping style.
3 test places, for contemporary pressure test.
The screwed columns assure the complete absence of external forces on valve body.
This prerogative makes it conform to the most diffuse international test standards.

The rig is controlled by **SKMM-100** pressurization skid; to have more information about please consult dedicated technical data sheets. The rig could be completed with several options and accessories, please contact our sales office to have more information.

Reaction force : **360 TON**
120 TON/screw
(See working limits table)

Valve lenght max : 1000 mm
Valve lenght min : 150 mm
Inner column distance : 580 mm
Basement water tank : 400 Liters
Terminations allowed : BW, SW, RF, RJ
Clamping style : Type 2 – Inner radial
Reference standard : ISO, DIN, API, ANSI, ASTM, FCI, BS
(Other on request).

Pneumatic supply : 6.5 bar @ 2000 NI/min
Electrical supply : 3PH + T, 380V@50Hz, 5KW
Dimensions : 2200(L) x 1200(P) x 2750(H)

240 TON
80 TON/screw

700 mm
150 mm
580 mm
400 Liters
BW, SW, RF, RJ
Type 2 – Inner radial
ISO, DIN, API, ANSI, ASTM, FCI, BS
(Other on request).

6.5 bar @ 2000 NI/min
3PH + T, 380V@50Hz, 5KW
2200(L) x 1200(P) x 2450(H)

Mechanical assembly options available

OM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	●	●	●	●	●	●					●	●	●	●	●	●	●			

See page 98 for details

*Operative limits for INNER RADIAL SEAL – ANSI Valve: Shell test at 1,5 x PN

		240TON	360TON					
DN		1"	2"	3"	4"	6"	8"	10"
ANSI-150	TON							
ANSI-300	TON							
ANSI-600	TON							
ANSI-900	TON							
ANSI-1500	TON							
ANSI-2500	TON							

*Note: RIG without protection for bunker use. Indicated values has been calculated for shell test and with API-6D nominal minimum bore size and they have to be considered as reference only.
For more accurate information please contact our technical office or consult instruction book delivered along the rig.

BV-3V/270

Multiple stations test bench

INNER RADIAL SEAL (BORE PLUGS)
3 LOADING TRAY
DIFFERENTIATED LOAD



Vertical test rig with inner radial seal clamping style.
3 test places, for contemporary pressure test.
The screwed columns assure the complete absence of external forces on valve body. This prerogative makes it conform to the most diffuse international test standards. Different screw diameter let you to extend valve range that could be tested (See working limits). The rig is controlled by **SKMM-100** pressurization skid; to have more information about please consult dedicated technical data sheets. The rig could be completed with several options and accessories, please contact our sales office to have more information.

- Reaction force : **3x90 TON**
2x125 TON (lateral)
1x200 TON (Central)
(See working limits table)
- Valve length max : 1200 mm
- Valve length min : 500 mm
- Station to station dist. : 650 mm
- Loading height : 970 mm
- Screw stroke : 700 mm
- Loading tray : 3 independent
- Basement water tank : 450 Liters
- Terminations allowed : BW, SW, RF, RJ
- Clamping style : Type 2 – Inner radial
- Reference standard : ISO, DIN, API, ANSI, ASTM, FCI, BS (Other on request).
- Pneumatic supply : 6.5 bar @ 1100 NI/min
- Electrical supply : 3PH + T, 380V@50Hz, 5KW
- Dimensions : 2200(L) x 1200(P) x 2750H)

Mechanical assembly options available

OM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	●	●	●	●	●	●					●	●	●	●	●	●	●	●	●	●

See page 98 for details

Vertical Multiple stations

***Working limits INNER RADIAL SEAL - ANSI valve Stations ① and ③**

DN	4"	6"	8"	10"	12"
ANSI-150 TON					
ANSI-300 TON					
ANSI-600 TON					
ANSI-900 TON					
ANSI-1500 TON					
ANSI-2500 TON					

***Working limits INNER RADIAL SEAL - ANSI valve Stations ②**

DN	4"	6"	8"	10"	12"	14"	16"	18"	20"
ANSI-150 TON									
ANSI-300 TON									
ANSI-600 TON									
ANSI-900 TON									
ANSI-1500 TON									
ANSI-2500 TON									

*Note: Showed data has been calculated considering SHELL test pressure and nominal bore size according to API-6D. For further details please contact our technical office.

[Patent Pending]

BV-3V/150L

Multiple stations test bench

INNER RADIAL SEAL (BORE PLUGS)
3 LOADING TRAY
DIFFERENTIATED LOAD



Vertical test rig with inner radial seal clamping style. 3 test places, for contemporary pressure test. The screwed columns assure the complete absence of external forces on valve body. This prerogative makes it conform to the most diffuse international test standards.

The rig is controlled by **SKA-100** pressurization skid; to have more information about please consult dedicated technical data sheets. The rig could be completed with several options and accessories, please contact our sales office to have more information.

Reaction force	:	150 TON TOT 1x150 TON 2 x 75 TON 3 x 50TON (See working limits table)
Valve lenght max	:	700mm
Valve lenght min	:	0 mm
Max flange diameter	:	450 mm
Basement water tank	:	400 Liters
Terminations allowed	:	BW, SW, RF, RJ
Clamping style	:	Type 2 – Inner radial
Reference standard	:	ISO, DIN, API, ANSI, ASTM, FCI, BS (Other on request).
Pneumatic supply	:	6.5 bar @ 1100 NI/min
Electrical supply	:	3PH + T, 380V@50Hz, 5KW
Dimensions	:	1860(L) x 1250(P) x 2750(H)

Mechanical assembly options available

OM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
	●	●	●	●	●	●					●	●	●	●	●	●	●	●	●	●	●

See page 98 for details

***Working limits INNER RADIAL SEAL - ANSI valve**

3 x 50TON 2 x 75TON 1 x 150TON

	DN	1/2"	1"	2"	2 1/2"	3"	4"	5"	6"	8"	10"	12"	14"
ANSI-150	TON												
ANSI-300	TON												
ANSI-600	TON												
ANSI-900	TON												
ANSI-1500	TON												
ANSI-2500	TON												

*Note: Showed data has been calculated considering Shell test pressure and nominal bore size according to API-6D. For further details please contact our technical office.

BV-3V/150

Multiple stations test bench

INNER RADIAL SEAL (BORE PLUGS)
3 LOADING TRAY



CLAMP TYPE 2



Vertical test rig with inner radial seal clamping style. 3 test places, for contemporary pressure test. The screwed columns assure the complete absence of external forces on valve body. This prerogative makes it conform to the most diffuse international test standards.

The rig is controlled by **SKA-100** pressurization skid; to have more information about please consult dedicated technical data sheets. The rig could be completed with several options and accessories, please contact our sales office to have more information.

Vertical Multiple stations

- Reaction force : **150 TON TOT**
50 TON/screw
(See working limits table)
- Valve lenght max : 700mm
- Valve lenght min : 0 mm
- Max flange diameter : 450 mm
- Basement water tank : 400 Liters
- Terminations allowed : BW, SW, RF, RJ
- Clamping style : Type 2 – Inner radial
- Loading tray stroke : 300 mm
- Reference standard : ISO, DIN, API, ANSI, ASTM, FCI, BS (Other on request).
- Pneumatic supply : 6.5 bar @ 1100 NI/min
- Electrical supply : 3PH + T, 380V@50Hz, 5KW
- Dimensions : 1860(L) x 1250(P) x 2750(H)

Mechanical assembly options available

OM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	●	●	●	●	●	●					●	●	●	●	●	●	●	●	●	●

See page 98 for details

***Working limits INNER RADIAL SEAL - ANSI valve**

	DN	1/2"	1"	2"	2 1/2"	3"	4"	5"	6"	8"	10"
ANSI-150	TON										
ANSI-300	TON										
ANSI-600	TON										
ANSI-900	TON										
ANSI-1500	TON										
ANSI-2500	TON										

*Note: Showed data has been calculated considering Shell test pressure and nominal bore size according to API-6D. For further details please contact our technical office.

[Patent Pending]

BV-3CV/240

Multiple stations test bench

COMBINED CLAMPING, CYLINDER + SCREW
3 LOADING TRAY



CLAMP TYPE 3



Vertical test rig with, combined clamping style. It has 3 test places, with combined clamping. With the **hydraulic cylinder** (bottom side), operator can test flanged valves with proportional controlled press clamp, where the press force is controlled automatically according to the water pressure inside valve, and the result load is reduced to minimal terms; with the screwed columns he can test BW, SW termination using the inner radial seal. The combination of that two different clamping style, makes the rig suitable for all valve kinds. Each station has its own loading tray that simplify loading procedure. Nr.3 units independents. The unit could be controlled by **SKA-100** pressurization skid.

- Reaction force : **240 TON TOT**
- Valve length max : 1000 mm
- Valve length min : 150 mm
- Distance between columns : 580 mm
- Basement water tank : 400 Liters
- Terminations allowed : RF, RJ, BW, SW
- Clamping type : Type 3 - Combined
- Clamping force control : Automatic within 5..100% interval, proportional to the hydrostatic pressure inside the valve under test. Reg. gain controlled by the operator
- Loading tray stroke : 350 mm
- Reference standard : ISO, DIN, API, ANSI, ASTM, FCI, BS (Other on request).
- Pneumatic supply : 6.5 bar @ 1100 NI/min - Dry air not lubricated
- Electric supply : 3PH + T, 380V@50Hz, 5KW
- Dimensions : 2200(L) x 1200(P) x 2750(H)

Mechanical assembly options available

OM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	●	●	●	●	●	●					●	●	●	●	●	●	●	●	●	●

See page 98 for details

***Working limits for PRESS CLAMPING and INNER RADIAL SEAL ANSI VALVES, SHELL TEST**

DN	1/2"	1"	2"	2 1/2"	3"	4"	5"	6"	8"	10"	12"
ANSI-150 TON											
ANSI-300 TON											
ANSI-600 TON											
ANSI-900 TON											
ANSI-1500 TON											
ANSI-2500 TON											

*Note: Indicated values has been calculated for shell test and with API-6D nominal minimum bore size and they have to be considered as reference only. Press clamping style limits are based on bore size increased by 50 mm. For more accurate information please contact our technical office or consult instruction book delivered along the rig.

BV-5CV/150

Multiple stations test bench

COMBINED CLAMPING,
CYLINDER + SCREW



CLAMP
TYPE
3



Vertical test rig with, combined clamping style.

It has 5 test places, with combined clamping.

With the **hydraulic cylinder** (bottom side), operator can test flanged valves with proportional controlled press clamp, where the press force is controlled automatically according to the water pressure inside valve, and the result load is reduced to minimal terms; with the screwed columns he can test BW, SW termination using the inner radial seal.

The combination of that two different clamping style, makes the rig suitable for all valve kinds.

The unit could be controlled by **SKA-100** pressurization skid.

Please contact our sales office to have more information.



- Reaction force : **150 TON**
- Valve lenght max : **5 x 30 TON** (See working limits)
- Valve lenght min : 650mm
- Max flange diameter : 0 mm
- Basement water tank : 580 mm
- Terminations allowed : 400 Liters
- Clamping style : BW, SW, RF, RJ
- Reference standard : Type 3 – Combined
- Pneumatic supply : ISO, DIN, API, ANSI, ASTM, FCI, BS (Other on request).
- Electrical supply : 6.5 bar @ 1100 NI/min
- Dimensions : 3PH + T, 380V@50Hz, 5KW

Mechanical assembly options available

OM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	●	●	●	●	●	●				●	●	●	●	●	●	●	●	●	●	●

See page 98 for details

***Working limits for PRESS CLAMPING and INNER RADIAL SEAL ANSI VALVES, SHELL TEST**

DN	1/2"	1"	2"	2 1/2"	3"	4"	5"	6"	8"	10"	12"
ANSI-150 TON											
ANSI-300 TON											
ANSI-600 TON											
ANSI-900 TON											
ANSI-1500 TON											
ANSI-2500 TON											

*Note: Indicated values has been calculated for shell test and with API-6D nominal minimum bore size and they have to be considered as reference only. Press clamping style limits are based on bore size increased by 50 mm. For more accurate information please contact our technical office or consult instruction book delivered along the rig.

Vertical Multiple stations

[Patent Pending]

BV-5CV/100

Multiple stations test bench

COMBINED CLAMPING,
CYLINDER+SCREW



CLAMP
TYPE
3



Vertical test rig with combined clamping style.
It has 5 test places, with combined clamping.
With the hydraulic cylinder (bottom side), operator can test flanged valves with proportional controlled press clamp, where the press force is controlled automatically according to the water pressure inside valve, and the result load is reduced to minimal terms; with the screwed columns he can test BW, SW termination using the inner radial seal.
The combination of that two different clamping style, makes the rig suitable for all valve kinds.
Two feeding table with rolls, can simplify the loading operations (option).
The unit could be controlled by **SKA-100** pressurization skid.

Reaction force	:	100 TON
	:	20 TON/screw (See working limits tables).
Valve length max	:	500 mm
Valve length min	:	50 mm
Distance between places	:	300 mm
Basement water tank	:	200 Litres
Terminations allowed	:	RF, RJ, BW, SW
Clamping type	:	Type 3 - Combined
Clamping force control	:	Automatic within 5..100% interval, proportional to the hydrostatic pressure inside the valve under test. Reg. gain controlled by the operator
Reference standard	:	ISO, DIN, API, ANSI, ASTM, FCI, BS (Other on request).
Pneumatic supply	:	6.5 bar @ 1100 NI/min - Dry air not lubricated
Electric supply	:	3PH + T, 380V@50Hz, 5KW
Dimensions	:	2106(L) x 1420(P) x 2536(H) (skid not included)

Mechanical assembly options available

OM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	●	●	●	●	●	●				●	●	●	●	●	●	●	●	●	●	●

See page 98 for details

***Working limits for PRESS CLAMPING and INNER RADIAL SEAL ANSI VALVES, SHELL TEST**

	DN	½"	1"	2"	2½"	3"	4"	5"	6"
ANSI-150	TON								
ANSI-300	TON								
ANSI-600	TON								
ANSI-900	TON								
ANSI-1500	TON								
ANSI-2500	TON								

*Note: Indicated values has been calculated for shell test and with API-6D nominal minimum bore size and they have to be considered as reference only. Press clamping style limits are based on bore size increased by 50 mm.
For more accurate information please contact our technical office or consult instruction book delivered along the rig.

BV-3CV/30

Multiple stations test bench

COMBINED CLAMPING,
CYLINDER+SCREW



Vertical test rig with combined clamping style. It has 3 test places, with combined clamping. With the hydraulic cylinder (bottom side), operator can test flanged valves with proportional controlled press clamp, where the press force is controlled automatically according to the water pressure inside valve, and the result load is reduced to minimal terms; with the screwed columns he can test BW, SW termination using the inner radial seal. The combination of that two different clamping style, makes the rig suitable for all valve kinds. Two feeding table with rolls, can simplify the loading operations (option). The unit could be controlled by **SKA-100** pressurization skid.

Vertical Multiple stations

- Reaction force : **30 TON**
- Valve length max : **10 TON/screw** (See working limits tables)
- Valve length min : 740 mm
- Distance between columns : 150 mm
- Basement water tank : 300mm
- Terminations allowed : 100 Liters
- Clamping type : RF, RJ, BW, SW
- Clamping force control : Type 3 - Combined
- Reference standard : On/OFF
- Pneumatic supply : ISO, DIN, API, ANSI, ASTM, FCI, BS (Other on request).
- Electric supply : 6.5 bar @ 2000 NI/min - Dry air not lubricated
- Dimensions : 3PH + T, 380V@50Hz, 5KW
- : 1300(L) x 1420(P) x 2100(H)

Mechanical assembly options available																				
OM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	●	●	●	●	●	●					●	●	●	●	●	●	●	●	●	●

See page 98 for details

***Working limits for PRESS CLAMPING and INNER RADIAL SEAL ANSI VALVES, SHELL TEST**

ANSI	TON	DN	1/2"	1"	2"	2 1/2"	3"	4"
ANSI-150	TON							
ANSI-300	TON							
ANSI-600	TON							
ANSI-900	TON							
ANSI-1500	TON							
ANSI-2500	TON							

*Note: Indicated values has been calculated for shell test and with API-6D nominal minimum bore size and they have to be considered as reference only. Press clamping style limits are based on bore size increased by 20 mm. For more accurate information please contact our technical office or consult instruction book delivered along the rig.

[Patent Pending]

BV-5MV/20

Multiple stations test bench

UNIVERSAL CLAMPING



CLAMP TYPE 4



Vertical test rig with universal clamping style:
 - Claws on RF/RJ valves
 - Press clamping
 - Inner radial seal.
 5 test places, for contemporary pressure test. The screwed columns assure the complete absence of external forces on valve body. This prerogative makes it conform to the most diffuse international test standards. Upper side Reaction Bridge can be removed with a 90° rotation flag style. In this way, loading procedures are more easy.
 Water recovering is automatic even for check valve.
 A device to open check value is available on request. The rig is controlled by **SKA-100** pressurization skid; to have more information about please consult dedicated technical data sheets. The rig could be completed with several options and accessories, please contact our sales office to have more information.

Reaction force	:	5 x 20 TON/screw (see working limits table)
Valve length max	:	500 mm
Valve length min	:	0 mm
Inner column distance	:	500 mm
Basement water tank	:	450 Liters
Terminations allowed	:	BW, SW, RF, RJ
Clamping style	:	Type 4 – Universal
Reference standard	:	ISO, DIN, API, ANSI, ASTM, FCI, BS (Other on request).
Pneumatic supply	:	6.5 bar @ 1100 NI/min
Electrical supply	:	3PH + T, 380V@50Hz, 7KW
Dimensions	:	3640(L) x 1638(P) x 2261(H)

Mechanical assembly options available

OM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	●	●	●	●	●	●				●	●	●	●	●	●	●	●	●	●	●

See page 98 for details

***Working limits for PRESS CLAMPING and INNER RADIAL SEAL DIN VALVES, SHELL TEST**

	DN	50	100	125	150	200
PN-10	TON					
PN-16	TON					
PN-25	TON					
PN-40	TON					
PN-64	TON					
PN-100	TON					

(*Note: Indicated values has been calculated for shell test and with nominal minimum bore size + 30mm and they have to be considered as reference only. For more accurate information please contact our technical office or consult instruction book delivered along the rig

BVI-V/20

Water immersion GAS test benches

VERTICAL LOADING
INNER RADIAL SEALS
(BORE PLUGS)



CLAMP
TYPE
2

Water immersion, air test rig. It has been designed to discover bubbles leakage in valve casting. Water vessel is vertically moved in order to save testing time. A clamping system will let the operator to mount the valve directly on testing position.



Version to be installed in concrete BUNKER

Reaction force	:	20 TON
Valve length max	:	610mm
Valve length min	:	200 mm
Clearance between columns	:	800 mm
Water vessel	:	480L
Camping style	:	Type 2: Inner radial seal
Reference standard	:	API 6D
Max pressure	:	50 bar
Pneumatic supply	:	6.5 bar @ 2000 NI/min Dry air not lubricated
Electrical supply	:	3PH + T, 380V@50Hz, 3KW
Dimensions	:	1150L x 1900 P x 2810 H

Water
immersion
GAS test

Mechanical assembly options available

OM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	●	●	●	●	●	●							●	●	●					

See page 98 for details

WORKING LIMITS TABLE

*Working limits INNER RADIAL SEAL ANSI VALVE:

	DN	1/2"	1"	2"	2 1/2"	3"	4"	5"	6"	8"	10"
ANSI-150	TON										
ANSI-300	TON										
ANSI-600	TON										
ANSI-900	TON										
ANSI-1500	TON										
ANSI-2500	TON										

*Note: Showed data has been calculated considering Shell test pressure and nominal bore size according to API-6D. For further details please contact our technical office.

[Patent Pending]

BV-3CVI/60

Water immersion GAS test benches

COMBINED CLAMPING
PROPORTIONAL PRESS CONTROL
CYLINDER + SCREW



CLAMP
TYPE
3



3 station Vertical test rig with clamping style Nr.3 Combined. Each test place has the possibility to perform GAS test under water having independent water vessels moved idraulically. Each water vessel has a temperature control to setup water temperature max 40°. Proportional control of pressing clamp is available as well; the press force is controlled automatically according to the water pressure inside valve, and the result load is reduced to minimal terms. Armored steel protection with bullet proof glass grant highest safety level for the operator, and the best visuality for under water bubbles leak catching. The rig is controlled by **SKA-100** pressurization skid; to have more information about please consult dedicate technical data sheet. The rig could be completed with several options and accessories, please contact our sales office to have more information.

- Reaction force : **60 TON** 20 TON/screw (See working limits tables).
- Valve length max : 500 mm
- Valve length min : 0 mm
- Distance between places : 400 mm
- Water immersion vessel : D. 290mm x 550H
- Water Heating : Automatic 20-40°C
- Terminations allowed : RF, RJ, BW, SW
- Clamping type : Type 3 - Combined
- Clamping force control : Automatic within 5..100% interval, proportional to the hydrostatic pressure inside the valve under test. Reg. gain controlled by the operator
- Reference standard : ISO, DIN, API, ANSI, ASTM, FCI, BS (Other on request).
- Pneumatic supply : 6.5 bar @ 2000 NI/min - Dry air not lubricated
- Electric supply : 3PH + T, 380V@50Hz, 5KW
- Dimensions : 1960L x 1040P x 2640H /2950 H MAX

Mechanical assembly options available

OM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	●	●	●	●	●					●	●	●	●	●	●	●	●	●	●	●

See page 98 for details

***Working limits for PRESS CLAMPING and INNER RADIAL SEAL ANSI VALVES, SHELL TEST**

	DN	1/2"	1"	2"	2 1/2"	3"	4"
ANSI-150	TON						
ANSI-300	TON						
ANSI-600	TON						
ANSI-900	TON						
ANSI-1500	TON						
ANSI-2500	TON						

(*Note: Indicated values has been calculated for **shell test** and with **API-6D** nominal minimum bore size + 20mm and they have to be considered as reference only. For more accurate information please contact our technical office or consult instruction book delivered along the rig

BOI-V/450

Water immersion GAS test benches

HORIZONTAL LOADING
INNER RADIAL SEALS
(BORE PLUGS)



CLAMP
TYPE
2

Version to be installed
in concrete BUNKER



Horizontal test rig with inner radial seal clamping style. The mobile reaction bridge is moved by one screwed column that assure the complete absence of external forces on valve body. This prerogative makes it conform to the most diffuse international test standards.

A vessel around the valve can be filled with water to check visually external leakage under GAS test. The rig is controlled by SKMM/GAS pressurization skid; to have more information about please consult dedicated technical data sheets. The rig could be completed with several options and accessories, please contact our sales office to have more information.



Reaction force	:	450 TON (See working limits table)
Valve length max	:	1550 mm
Valve length min	:	150 mm
Column inner distance	:	1034 mm
Loading height	:	868mm (height of flow axes from soil)
Vessel inner dimension	:	1930(L) x 1065(P) x 1100(H)
Vessel capacity	:	2260 L
Filling/ Recovering pumps	:	500 L/min – 1.1KW
Terminations allowed	:	BW, SW, RF, RJ
Clamping style	:	Type 2 – Inner radial
Reference standard	:	ISO, DIN, API, ANSI, ASTM, FCI, BS (Other on request).
Electric supply	:	3PH + T, 380V@50Hz, 7KW
Dimensions	:	4750(L) x 1690(P) x 1415(H)

Water immersion
GAS test

Mechanical assembly options available

OM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	●	●	●										●	●						

See page 98 for details

WORKING LIMITS TABLE

*Operative limits for INNER RADIAL SEAL: Shell test at 1,5 x PN

	DN	2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"
ANSI-150	TON												
ANSI-300	TON												
ANSI-600	TON												
ANSI-900	TON												
ANSI-1500	TON												
ANSI-2500	TON												
ANSI-4500	TON												

*Note: Indicated values has been calculated for shell test and with API-6D nominal minimum bore size and they have to be considered as reference only. For more accurate information please contact our technical office or consult instruction book delivered along the rig.

[Patent Pending]

BV-5C He/10

Special applications

He Test

5 WAY CLAMPING SYSTEM
HELIUM CASTING
MICROLEAKAGE TEST



Vertical test test with press clamping system for 5 valve ports (included inner seat). It is able to perform Helium micro-leakage test on natural gas pressure reducer casting body.

Helium test is performed by pressurizing the casting at low pressure (5 bar abs) under high vacuum chamber.

The rig is able to catch leakage visible only by high pressure gas test with soap bubbles detections.

This prerogative allow the customers to reduce operational risk avoid expensive gas test bunkers.

The rig is controlled by **SKA-100/He** pressurization SKID. Please read dedicatyed data sheets for further information.

Reaction force	:	10 TON
Products allowed.	:	Natural GAS pressure reducer Range 1/2"-3" (DN15-DN80)
Valve length max	:	400 mm
Valve length min	:	140 mm
H max	:	400 mm
H max	:	140 mm
Terminations allowed	:	BW, RJ
Clamping style	:	Type 1 – Press Clamping 5 ways Inlet Outlet Top Bottom Inner SEAT
Electric supply	:	3PH + T, 380V@50Hz, 10KW
Dimensions	:	3500 (L) x 2500 (P) x 2200 (H)



SKA-100/He

Special applications

He Test

MICROLEAKAGE HELIUM TEST
Vacuum/Pressurization SKID



SKID for micro-leakage HELIUM test for castings.

It has been designed to control full automatic clamping rigs based on overpressure leak test of "Integral Method – Vacuum Hood Test". Casting is pressurized at low pressure with helium (5 bar abs) and a vacuum chamber which is evacuated by an auxiliary pump and which is connected to a leak detector (spectrometer) is used as the hood. The search gas escaping through the leaks is converted in electrical signals which are immediately displayed. This method permits the detection of very small leaks and is especially suited for automatic industrial leak detection. The skid include pre-test with air pressure drop to verify the absence of macro-leakage and evacuation service pump to remove air from test piece and recover helium (option).

High vacuum Pump (Vacuum Hood)	: 75 m ³ /h @ 5x10 ⁻³ mbar MAX
Service vacuum pump	: 40 m ³ /h @ 0.5 mbar
Max working pressure	: 10 bar abs
Smallest detectable leak	: 1 x 10 ⁻⁷ mbar l s ⁻¹ (other on request)
Electric supply	: 3PH + T, 380V@50Hz, 10KW
Dimensions	: 3500 (L) x 2500 (P) x 2200 (H)

Special applications



SKC-100 PRESSURE CYCLING PRESSURIZATION SKID



Automatic skid for endurance test on trunnion mounted ball valves. System supply a total leakage flow of 0.7L/min (0,5 L/min on downstream side + 0,2 L/min from cavity). Control System will beinterfaced directly to a axial piston motor able to perform open/close movement on valve under test with adjustable torque. Cycling is controlled by PLC and a configuration LCD touch screen.

Allowed fluids	:	H2O + olio em. 5%
Supply water pressure	:	2.5 - 8 bar
MAX working pressure	:	250 bar
Accumulator	:	60 L
Compression ratio	:	60:1
Motor torque	:	4,52Nm/bar, MAX 45 Kgm
Connection	:	NPT 3/8"
Pressure measure	:	LCD Touch screen
Accessories included	:	Manuale d'uso e manutenzione.
Electrical supply	:	2PH + T, 220V@50Hz
Dimension	:	600(L) x 1150(P) x 1500(H)

SKMM-100/CRYO PRESSURIZATION SKID FOR CRYO TEMPERATURE GAS TEST



Automatic skid for endurance test on trunnion mounted ball valves. System supply a total leakage flow of 0.7L/min (0,5 L/min on downstream side + 0,2 L/min from cavity). Control System will beinterfaced directly to a axial piston motor able to perform open/close movement on valve under test with adjustable torque. Cycling is controlled by PLC and a configuration LCD touch screen.

Max Working pressure N ₂	:	1050 bar
Min Working pressure N ₂	:	0.5 bar
GAS Booster opt	:	150:1
ATEX certification opt.	:	Available
Process valve	:	"Metal to metal" needle valve & "soft seat" bypass valve
Process style	:	Unidirectional
HP Fluid allowed	:	GAS (N ₂ , He, AIR)
Control system	:	Manual valve & Electrical lighted pushbuttons installed on graphical synoptic panel
Pressure measure	:	4-20mA Pressure transmitter + 7-seg Digital Display
Temperature measure	:	N°5 TC K type & 7-seg Digital Display
Ref. Standard	:	BS-6364 (CRYO TEST)
Serial Interface	:	RS-485 MODBUS PROTOCOL
Certification software	:	TestREC3.0-M
Leakage detection AIR / GAS	:	ANSI Bubbler, Bubbles counter. Volumetric bubbler.
Process Connections	:	NPT 1/2"-F, HP 1/4"
Service air supply	:	7bar @ 2000 L/min Other available on request
Electrical supply	:	2Ph+T 220V@50Hz 1KW Other available on request
Dimensions	:	700(L) x 1120(P) x 1120(H)

Special applications



SKMM-50/TC + CRYO VESSEL MOVABLE CRYOGENIC TEST VESSEL WITH TEMPERATURE CONTROL PANEL

Cryogenic test vessel is now available with temperature control panel.
On – off style temperature control is able to fix cryogenic bath temperature in the range 0 / -196 °C.
Nr.4 TC K type are installed: 1 fr bath temperature, 3 for custom application. All temperature signals are connected to certification software TestREC5.0-CRYO .

Temperature control	:	Digital On/Off style
Temperature measure	:	Nr. 4 TC type K
Temperature range	:	-196°C / +100°C
Cryo Vessel Dim	:	CV-350 350 Liters - 1000 L x 500 P x 700 H
		CV-1000 1070 Liters - 1500 L x 750 P x 950 H
		CV-3000 3000 Liters - 2000 L x 1000 P x 1500 H



SKMM-50/TC

CV-350

SKMM-100/FS MOVABLE FIRE SAFE TEST PRESSURIZATION SKID



COMPLETE UNIT FOR FIRE SAFE TEST according to API-607 / API 589 / API – 6FA
PRESSURIZATION SKID for FIRE SAFE TEST according to API-607 / API 589 / API – 6FA
This pressurization skid has all process equipment to perform
FIRE SAFE test on valve with stem packing or quarter turn shutoff valves.
It has up to 8 thermocouples with calorimeter cubes (where necessary).
Internal water reservoir of 120L. max working pressure 1600 bar.
Full digital report through RS232 MODBUS RTU connection,
data collection with certification software TestREC5.2-M.

Allowed fluids	:	Plenty water
Water reservoir	:	internal 120L
Max working pressure	:	700/ 1050/ 1380/ 1600 bar
Filling flow	:	70L/min
Air driven booster ratio	:	1:100/ 1:150/ 1:225 / 1:250
Reference std	:	API-607 / API-589 / API-6FA
Temperature measure	:	Nr. 8 TC type K with Digital display
Pressure measure	:	Nr. 2 pressure transmitters with Digital Display.
Water level measure	:	Nr. 1 Pressure transmitter with Digital Display



Special applications



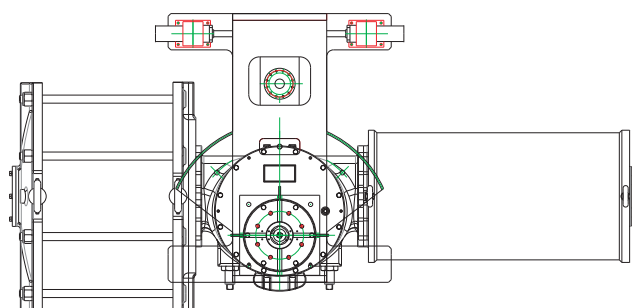
SKMM-100/IC HYPERBARIC CHAMBER PRESSURIZATION SKID



Pressurization skid able to control hyperbaric chamber.
Up to 10000 m dept simulation, with 40L volume compensation with high pressure accumulators.
PSV protection on max dept . GAS & Water test facilities included.
Automatic Filling/Recovering of water into hyperbaric chamber.

Simulated dept	:	1000m, 4500 m, 7000 m, 10000 m
Compensated volume	:	10L / 40L
Gas test	:	Up to 1000 bar
Water test	:	Up to 1380 bar
Filling flow	:	120 L / 470 L
Dimension	:	600(L) x 1150(P) x 1500(H)

BPA-30K BPA-250K AUTOMATIC RIG FOR DYNAMIC & STATIC GENERATED TORQUE OF JOKE ACTUATORS.



see updated file on
[WWW.PCPROGETTI .IT](http://WWW.PCPROGETTI.IT)

Automatic rig for dynamic & static generated torque of joke actuators.
It can measure an accurate characterization of the torque performance vs. movement angle.
The brake is controlled by DC servo drive and a PLC. The configuration is performed both through LCD or supervisor Windows software (TestREC5.4). The brake can be sold along with SKMM-100 pressurization skid to control actuator supply.

Dati tecnici:	BPA-30K	BPA-250K
Reaction torque (brake ability)	: 30.000 Nm	250.000 Nm
Movement angle	: 0 – 100°	0-100°
Movement time	: 30sec / 3 min	1min / 5 min
Zero adj.	: +/- 5°	+/- 5°
Accuracy	: +/- 0,1%	+/- 0,1%
Torque test	: Dynamic / Static	Dynamic / Static
Static meas. Points	: 22.5° / 45° / 67.5° / 90°	22.5° / 45° / 67.5° / 90°
Pneumatic supply	: 7 bar @ 500 NL/min	7 bar @ 500 NL/min
Electric supply	: 3PH , 380V@50Hz, 3KW	3 PH , 380V@50Hz, 15KW
Dimensions	: 2200(L) x 1960(P) x 1200(H)	2700(L) x 2600(P) x 1600(H)

BO-CV/40SA

Special applications

VERTICAL TEST RIG WITH
COMBINED CLAMPING, VALVE ACTUATOR
AND TRANSPORT CONVEJOR



CLAMP
TYPE
3



ThinkPC PROGETTI New test unit designed to perform high speed API / DIN full valve test procedures directly on 2 ways valve production line. Special product support pallets rolling on conveyor, allow perfect alignment. Clamping procedure is fully automatic with 4-axes positioning control, with proportional press clamping to reduce mechanical stress to minimum terms. Valve Opening / Closing movements are even automatic, controlled by torque programmable hydraulic actuator. Rig is configured by TestREC5.2 Windows based software package that can store recipes & test data of each tested product.

Reaction force	:	40 TON
Length max	:	760 mm
Length min	:	90 mm
Loading height	:	1250 - 1500 mm (Automatic regulation)
Basement water tank	:	100 Liters
Termination allowed	:	RF, RTJ, BW, SW
Clamping style	:	Type 1 – with proportional (option)
Clamping force control	:	Proportional pressing
Reference standards	:	ISO, DIN, API, ANSI, ASTM, FCI, BS (Other on request).
Filling Flow	:	70L/min
Vacuum pump	:	36m ³ /h (Option)
Max pressure	:	100 bar (water) - 12 bar (AIR)
Pneumatic supply	:	7 bar @ 2000 NI/min
Electric supply	:	3PH + T, 380V@50Hz,10KW (other on request)
Dimensions	:	2060(L) x 1160(P) x 4100(H)

★Working limits for **PRESS CLAMPING** and **INNER RADIAL SEAL**
ANSI VALVES, SHELL TEST

	DN	1/2"	1"	2"	3"	4"	5"	6"	8"
ANSI-150	TON								
ANSI-300	TON								
ANSI-600	TON								
ANSI-900	TON								
ANSI-1500	TON								
ANSI-2500	TON								
ANSI-4500	TON								

(*Note: Indicated values has been calculated for **shell test** and with **API-6D** nominal minimum bore size + 30mm and they have to be considered as reference only. For more accurate information please contact our technical office or consult instruction book delivered along the rig

BV-M90

PSV test benches

CLAWS CLAMPING
WITH PROTECTION PERIMETER



CLAMP
TYPE
5



Test rig with claws clamping. Test of RF or RTJ valve could be executed in the real working conditions. The clamping is hydraulic on/off type.

This prerogative makes it suitable for PSV valve and for flow valves.

The auto-centering movement of claws and tilting is controlled hydraulically or pneumatically (as option).

In the basement there is a tank for test fluid and additional tank are allowable.

It can be controlled by standard pressurization skid; in the picture you can see mod.

SKMM-100-G

Reaction force	:	90 TON (See working limits table)
Ø flange max	:	530 / 650 / 860mm
Ø flange min	:	90mm
Flange thickness max	:	140mm
Tilt angle	:	FIXED (no tiltable)
Basement water tank	:	200L
Terminations allowed	:	RF, RJ
Clamp type	:	Hydraulic cylinder w/claws
Clamping force control	:	On/Off type Range 10..100 ton
Reference standard	:	SO, API, ASME, ASTM
Pneumatic supply	:	6.5 bar @ 1100 NI/min
	:	Dry air not lubricated
Electrical supply	:	3PH + T380V@50Hz, 2KW
Dimensions	:	1465(L) x 2100(P) x 1900(H)

DN	1"	2"	3"	4"	6"	8"	10"	12"	14"	16"
bar	700	700	678	510	287	183	127	94	65	52

Test rigs for Pressure safety valves (PSV), Pressure relief valves and breather valves, According to API-527 test standard, have two main prerogative:

- Clamping is performed by claws which have the benefit to do not apply mechanical effort on valve body, and mechanical strength can be applied in same way of real application in order to verify resistance of mechanical design of flanged ends.
- Pressurization must be supported by adequate volume tank able to "supply" enough discharge flow to verify correct seat lift and blow down ability of the components under test.

Rigs described in this pages are available for both media water & GAS (Nitrogen/Air) with different style of claws clamping : manual fixing, manual auto-centering, hydraulic auto-centering.

Standard rigs are available up to 16" flanged valves , with different nominal load as indicated in working limits tables. Different sizes range are available on request, as well as tilt ability design even for large sizes range. Bullet proof protection perimeter can be added as option to ensure maximum safety level to the operators. Several process options can be selected to made performance & leakage test procedure according API standards rules.

Electrical & pneumatic driven compressor are available for GAS supply. Dedicated software package **TestREC5.4-PSV** is available to collect test data, store them in test data base and to pint out complete certification of valve performance (Simmer points, Pop pressure, Re-Seat pressure, Blow down, Seat Lift measure & Leak rate). Computer console with Windows computer and laser printer are available as well.

BV-M60



CLAMP TYPE 5

- Reaction force : **60 TON**
(See working limits table)
- Ø flange max : 530 / 650 / 860mm
- Ø flange min : 90mm
- Flange thickness max : 90mm
- Tilt angle : FIXED (no tiltable)
- Basement water tank : 200l
- Terminations allowed : RF, RJ
- Clamp type : Hydraulic cylinder w/claws Clamping force
- control : On/Off type
- Range : 10..100 ton
- Reference standard : ISO, API, ASME, ASTM
- Pneumatic supply : 6.5 bar @ 1100 NI/min Dry air not lubricated
- Electrical supply : 3PH + T380V@50Hz, 2KW
- Dimensions : 1250(L) x 700P) x 1250(H)

DN	1"	2"	3"	4"	6"	8"	10"	12"	14"	16"
bar	700	700	452	340	191	122	85	62	43	35

BR-M90



CLAMP TYPE 5

- Reaction force : **90 TON**
(See working limits table)
- Ø flange max : 530 / 650 / 860mm
- Ø flange min : 90mm
- Flange thickness max : 140mm
- Tilt angle : -5 .. +95°
- Basement water tank : 200 l
- Terminations allowed : RF, RJ
- Clamp type : Hydraulic cylinder w/claws
- Clamping force control : On/Off typeRange 10..100 ton
- Reference : standard ISO, API, ASME, ASTM
- Pneumatic supply : 6.5 bar @ 1100 NI/min
- Dry air not lubricated :
- Electrical supply : 3PH + T380V@50Hz, 2KW
- Dimensions : 1465(L) x 2100(P) x 1900(H)

DN	1"	2"	3"	4"	6"	8"	10"	12"	14"	16"
bar	700	700	678	510	287	183	127	94	65	52

PSV test benches

PSV test benches



SKMM-100/PSV



CLAMP
TYPE
5

Reaction force	:	10 TON (See working limits table)
Ø flange max	:	300mm
Ø flange min	:	90mm
Flange thickness max	:	40mm
Tilt angle	:	FIXED (no tiltable)
Terminations allowed	:	RF, RJ
Clamping force control	:	Clamp type DIN T-Bolts
Reference standard	:	ISO, API, ASME, ASTM
Pneumatic supply	:	6.5 bar @ 1100 NI/min Dry air not lubricated
Electrical supply	:	3PH + G 380V@50Hz, 2KW
Dimensions	:	700L x 1250 P x 1900 H

DN	1"	2"	3"	4"
bar	226	127	75	56

BR-M15



CLAMP
TYPE
5

Reaction force	:	15 TON (See working limits table)
Ø flange max	:	400mm
Ø flange min	:	90mm
Flange thickness max	:	10 65mm
Tilt angle	:	0+90°
Terminations allowed	:	RF, RJ
Clamp type	:	Hydraulic cylinder w/claws
Clamping force control	:	On/Off type Range 1.5..15 TON
Reference standard	:	ISO, API, ASME, ASTM
Pneumatic supply	:	6.5 bar @ 1100 NI/min Dry air not lubricated
Electrical supply	:	3PH + T380V@50Hz, 3KW
Dimensions	:	1180(L) x 1230(P) x 1060(H)

DN	1"	2"	3"	4"	6"	8"
bar	340	191	113	85	48	30

SKA-PSV HIDRAULIC AND PNEUMATIC PRESSURIZATION SKID FOR PSV VALVES



Pressurization skid dedicated to small size PSV calibration procedures. It is controlled by PLC and a touch screen LCD terminal. A local printout on 24cln thermal paper is available as option. Dedicated software for PSH set-point, pop and reseal pressure value. It has water reservoir inside cabinet in order to be independent during test performance. A fine regulation for water or gas pressurization, complete the standard furniture.

Allowed size	: NPT 1/2", 3/4", 1", 1 1/2"
	(clamp stand for flanged valve available on request)
Allowed fluid	: H2O + synt. oil 5%, N2, AIR
MAX pressure	: 200 bar / 650 bar / 1000 bar
Water Booster	: N°1 Booster 0,3HP (2° booster option)
Fine regulation tank	: Included Internal HP : Optional
Internal water reservoir	: 50 L
Reference standard	: ISO-4126
Connection	: 1/4" - 1/2" - 3/4" - 1"
Manometer	: Digital 4dg cl. 0,15%
Filling pump	: Centrifugal 70L/min
Electrical supply	: 3PH + T, 380V@50Hz 1KW
Gas supply	: Max 200 bar
Dimension	: 600(L) x 1160(P) x 1460(H)

SKA-PSV2 HIDRAULIC PRESSURIZATION SKID FOR PSV VALVES



Pressurization skid dedicated to small size PSV calibration procedures. It is controlled by PLC and a touch screen LCD terminal. A local printout on 24cln thermal paper is available as option. Dedicated software for PSH set-point, pop and reseal pressure value. It has water reservoir inside cabinet in order to be independent during test performance. A fine regulation for water pressurization, complete the standard furniture.

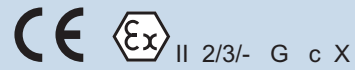
Allowed size	: NPT 1/2", 3/4", 1", 1 1/2"
	(clamp stand for flanged valve available on request)
Allowed fluid	: H2O + synt. oil 5%
MAX pressure	: 200 bar / 650 bar / 1000 bar
Booster	: N°1 Booster 0,3HP (2° booster option)
Fine regulation tank	: Included Internal HP : Optional
Internal fluid reservoir	: 50 L
Reference standard	: ISO-4126
Connection	: 1/4" - 1/2" - 3/4" - 1"
Manometer	: Digital 4dg cl. 0,15%
Filling pump	: Centrifugal 70L/min
Electrical supply	: 3PH + T, 380V@50Hz 1KW
Dimension	: 600(L) x 1160(P) x 1460(H)

Process options available

OP	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
				●			●			●						●				

SKA

Automatic pressurization Skid



Mechanical assembly options available

OP	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●



SKA-100/S



SKA-100/SHV



SKA-100

Max working pressure	700 / 1050 / 1380 / 1600 / 2068 / 4138 / 6897 bar	-	700/ 1050/ 1380/ 1600/ 2068/ 4138/ 6897 bar
H2O	200 / 450 / 700 / 1380 bar	-	200 / 450 / 700 / 1380 bar
N2	200 / 450 bar	-0.995 / 0 bar	200 / 450 bar
Air			
Filling flow	70 L/min (from external line)	70 m²/h	120 L/min
Pressurization Power	0,4 / 0,8 / 1,5 / 3 HP	-	0,4 / 0,8 / 1,5 / 3 HP
Vacuum pump opt.	36 m ³ /h	36 m ³ /h	36 / 80 m ³ /h
DBB test opt.	Available	Not available	Available
GAS Test opt.	Not available	Not available	Available
GAS Booster opt.	Not available	Not available	Available
CAVITY test opt.	Not available	Not available	Available
Multistation opt.	Not available	Not available	Available
Actuator control panel opt.	Not available	Not available	Available
ATEX certification opt.	Available		Available
Fluid allowed	Water, Water & oil mixture, Glicole, Ethanol (Atex), Methanol (Atex).		
Control system	PLC/LCD touch screen 5"		PLC/LCD touch screen 5"
Printer opt.	Available - Thermal printer 24cln		Available - Thermal printer 24cln
Ref. Standard	API \ DIN \ BS \ FCI other on request		API \ DIN \ BS \ FCI other on request
Serial Interface	RS232C		RS232C
Certification software	TestREC5.4		TestREC5.4
Leakage detection:			
Air	ANSI Bubbler, Bubbles counter, Volumetric bubbler, Mass flowmeters		
Water	Water Column, Digital water column, Turbines flowmeters		
Service air supply	7 bar @ 2000L/min Other available on request.		7 bar @ 2000L/min Other available on request.
Electrical supply	2ph+T 220V@50Hz 0.5KW Other available on request.		3Ph+T 380V@50Hz 5,5KW Other available on request.
Dimensions	500(L) x 1000(P) x 700(H)	500(L) x 1000(P) x 700(H)	600(L) x 1300(P) x 1900(H)

Hydraulic/pneumatic pressurization skid.
Controlled by electronic PLC configured by LCD touch screen monitor. Logic could store test data, set-points, times and leak limits. Pressure set point is automatically reached. Leak could be measured (option) by electronic bubbles counter or precision water column for H2O leak (height measured by pressure transmitter). Vacuum pump could be installed (option) to assure the

absence of air inside valve's body before filling it with water; in order to reduce test time and increase operator's safety. All wet process components are stainless steel made and dimensioned for a working pressure of 700 bar (up to 2800 bar as option). It has a high filling flow ability and the recovering of test fluid is automatic. Metal to metal needle valves assure high reliability. A 24cln thermal printer

(option) could be installed to printout a simple test report without connect an external PC windows based supervision with certification software TestREC2.0 installed. The software and process option it has, make it compliant with the most diffuse test standards.

Mechanical assembly options available

OP	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

Mechanical assembly options available

OP	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

Mechanical assembly options available

OP	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

Mechanical assembly options available

OP	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●



SKA-250

SKA-500

SKA-1000

SKA-2000

700/ 1050/ 1380/ 1600/ 2068/ 4138/ 6897 bar
200 / 450 / 700 / 1380 bar
200 / 450 bar

700/ 1050/ 1380/ 1600 bar
200 / 450 / 700 bar
200 / 450 bar

700/ 1050/ 1380/ 1600 bar
200 / 450 / 700 bar
200 / 450 bar

700/ 1050/ 1380/ 1600 bar
200 / 450 / 700 bar
200 / 450 bar

240 L/min

0,4 / 0,8 / 1,5 / 3 HP
80 / 160 m³/h

Available

Available

Available

Available

Available

Available

Available

Available

Available

Available

Available

Available

Available

Available

Available

Available

Available

Available

Available

Available

Available

470 L/min

3 / 6 / 9 HP
80 / 160 m³/h

Available

Available

Available

Available

Available

Available

Available

Available

Available

Available

Available

Available

Available

Available

Available

Available

Available

Available

Available

Available

Available

940 L/min

3 / 6 / 9 / 12 HP
160 / 240 m³/h

Available

Available

Available

Available

Available

Available

Available

Available

Available

Available

Available

Available

Available

Available

Available

Available

Available

Available

Available

Available

Available

1880 L/min

4,5 / 6 / 9 / 12 HP
160 / 240 m³/h

Available

Available

Available

Available

Available

Available

Available

Available

Available

Available

Available

Available

Available

Available

Available

Available

Available

Available

Available

Available

Available

PLC/LCD touch screen 5"

Available - Thermal printer 24cln

API \ DIN \ BS \ FCI other on request

RS232C

TestREC5.4

PLC/LCD touch screen 5"

Available - Thermal printer 24cln

API \ DIN \ BS \ FCI other on request

RS232C

TestREC5.4

PLC/LCD touch screen 5"

Available - Thermal printer 24cln

API \ DIN \ BS \ FCI other on request

RS232C

TestREC5.4

PLC/LCD touch screen 5"

Available - Thermal printer 24cln

API \ DIN \ BS \ FCI other on request

RS232C

TestREC5.4

7 bar @ 2000L/min
Other available on request.

3Ph+T 380V@50Hz 6 KW
Other available on request.

600(L) x 1500(P) x 1900(H)

7 bar @ 2000L/min
Other available on request.

3Ph+T 380V@50Hz 7,5KW
Other available on request.

1300(L) x 1300(P) x 1900(H)

7 bar @ 4000L/min
Other available on request.

3Ph+T 380V@50Hz 10KW
Other available on request.

1300(L) x 1700(P) x 1900(H)

7 bar @ 4000L/min
Other available on request.

3Ph+T 380V@50Hz 10KW
Other available on request.

1300(L) x 2000(P) x 1900(H)

Process
skid

[Patent Pending]

SKM

Semi automatic Pressurization Skid

CE  II 2/3- G c X



Mechanical assembly options available

OP	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

SKM-100

Mechanical assembly options available

OP	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

SKM-250

Max working pressure		
H ₂ O	700 / 1050 / 1380 / 1600 / 2068 / 4138 / 6897 bar	700 / 1050 / 1380 / 1600 / 2068 / 4138 / 6897 bar
N ₂	200 / 450 / 700 / 1380 bar	200 / 450 / 700 / 1380 bar
Air	200 / 450 bar	
Filling flow	120 L/min	240 L/min
Pressurization Power	0,4 / 0,8 / 1,5 / 3 HP	0,4 / 0,8 / 1,5 / 3 HP
Vacuum pump	36 / 80 m ³ /h	36 / 80 m ³ /h
DBB test opt.	Available	Available
GAS Test opt.	Available	Available
GAS Booster opt.	Available	Available
CAVITY test opt	Available	Available
Multistation option	Available (2 to 5 stations control)	Available (2 to 5 stations control)
Actuator control panel opt.	Available	Available
ATEX certification opt.	Available	Available
Fluid allowed	Water, Water & oil mixture, Glicole, Ethanol (Atex), Methanol (Atex).	
Control system	Electrical lighted pushbuttons installed on graphical synoptic panel.	
Ref. Standard	API \ DIN \ BS \ FCI	API \ DIN \ BS \ FCI
Serial Interface	RS485 MODBUS PROTOCOL	RS485 MODBUS PROTOCOL
Certification software	TestREC3.0-M	TestREC3.0-M
Leakage detection		
Air	ANSI Bubbler, Bubbles counter, Volumetric bubbler, Mass flowmeters	
Water	Water Column, Digital water column, Turbines flowmeters	
Service air supply	7 bar @ 2000L/min Other available on request.	7 bar @ 2000L/min Other available on request.
Electrical supply	3Ph+T 380V@50Hz 5KW Other available on request.	3Ph+T 380V@50Hz 5,5KW Other available on request.
Dimensions	600(L) x 1300(P) x 1900(H)	600(L) x 1500(P) x 1900(H)

Hydraulic/pneumatic pressurization skid.
Semi-automatic control with command on control console.
Each process element (valves & pump) is controlled by the operator by luminous pushbuttons.
Leak could be measured (option) by electronic bubbles counter or precision water column for H²O leak (height measured by pressure transmitter).
Vacuum pump could be installed (option) to assure the

absence of air inside valve's body before filling it with water; in order to reduce test time and increase operator's safety. All wet process components are stainless steel made and dimensioned for a working pressure of 700 bar (up to 2100 bar as option).
It has a high filling flow ability and the recovering of test fluid is automatic. Metal to metal needle valves assure high reliability.

The "manual" nature of this skid, allow the operator to perform test on the valve (or test sequences) non contemplated into the reference test standard.



Mechanical assembly options available

OP	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

SKM-500



Mechanical assembly options available

OP	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

SKM-1000



Mechanical assembly options available

OP	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

SKM-2000

700 / 1050 / 1380 / 1600 bar
200 / 450 / 700 bar

700 / 1050 / 1380 / 1600 bar
200 / 450 / 700 bar

700 / 1050 / 1380 / 1600 bar
200 / 450 / 700 bar

470 L/min

3 / 6 / 9 HP
80 / 160 m³/h
Available
Available
Available
Available
Available (2 to 5 stations control)
Available

Available

940 L/min

3 / 6 / 9 / 12 HP
160 / 240 m³/h
Available
Available
Available
Available
Available (2 to 5 stations control)
Available

Available

1880 L/min

4,5 / 6 / 9 / 12 HP
160 / 240 m³/h
Available
Available
Available
Available
Available (2 to 5 stations control)
Available

Available

API \ DIN \ BS \ FCI
RS485 MODBUS PROTOCOL
TestREC3.0-M

API \ DIN \ BS \ FCI
RS485 MODBUS PROTOCOL
TestREC3.0-M

API \ DIN \ BS \ FCI
RS485 MODBUS PROTOCOL
TestREC3.0-M

7 bar @ 2000L/min
Other available on request.
3Ph+T 380V@50Hz 7,5KW
Other available on request.
1300(L) x 1300(P) x 1900(H)

7 bar @ 4000L/min
Other available on request.
3Ph+T 380V@50Hz 10KW
Other available on request.
1300(L) x 1700(P) x 1900(H)

7 bar @ 4000L/min
Other available on request.
3Ph+T 380V@50Hz 10KW
Other available on request.
1300(L) x 2000(P) x 1900(H)

Process
skid

[Patent Pending]

SKMM

Manual Pressurization Skid

CE



SKMM-10



SKMM-80/GAS



SKMM-100

Max Working pressure			
H ₂ O	700 / 1200 / 2100 bar	-	700 / 1050 / 1380 / 1600 / 2068 / 4138 / 6897 bar
N ₂ :	-	200 bar	200 / 450 / 700 / 1000 bar
AIR :	-	200 bar	200 / 450 bar
Filling flow H ₂ O	10L /min	-	120 L/min
Vacuum pump	-	-	36 m ³ /h (80 m ³ /h on request)
DBB test opt.	Available	-	Available
GAS Booster opt	-	-	Available
CAVITY test	Available	Available	Available
ATEX certification opt.	Available	Available	Available
Process style	Unidirectional	Unidirectional	Bidirectional, with or without bypass valve
HP Fluid allowed	Water, Water & oil mixture. Glicole, Ethanol / Methanol (Atex).	GAS (N ₂ , He, AIR)	Water, Water & oil mixture. Glicole, Ethanol (Atex). Methanol (Atex), GAS (N ₂ , He, AIR)
Control system	Manual needle valve	Manual needle valve on graphical synoptic panel	Manual valve & Electrical lighted pushbuttons installed on graphical synoptic panel
Pressure measure	Pressure port for master gauge	4-20mA Pressure transmitter + 7-seg Digital Display	4-20mA Pressure transmitter + 7-seg Digital Display
Ref. Standard	API / DIN / BS / FCI	API / DIN / BS / FCI	API / DIN / BS / FCI
Serial Interface	RS-485 MODBUS PROTOCOL	RS-485 MODBUS PROTOCOL	RS-485 MODBUS PROTOCOL
Certification software	Option TestREC5.4-M	Option TestREC5.4-M	Option TestREC5.4-M
Leakage detection			
AIR / GAS	-	ANSI Bubbler, Bubbles counter. Volumetric bubbler, Mass Flowmeters	ANSI Bubbler, Bubbles counter. Volumetric bubbler, Mass Flowmeters
Water	-	-	Water column, Digital water column, Turbine flowmeters.
Process Connections	BSPP ½"-F / HP 1/4"-F	NPT 1/2"-F, HP 1/4"-F	BSPP 1"-F
Service air supply	7bar @ 2000 L/min Other available on request	-	7bar @ 2000 L/min Other available on request
Electrical supply	-	2Ph+G 220V@50Hz 1KW Other available on request	3Ph+G 380V@50Hz 3KW Other available on request
Dimensions	300(L) x 700(P) x 350(H)	600(L) x 800(P) x 1580(H)	700(L) x 1120(P) x 1120(H)

Hydraulic/pneumatic pressurization skid.
Controlled by electrical pushbutton on a graphical synoptic panel or manual needle valves (GAS). Every process element is controlled directly by the operator; main safety garrison for wrong maneuvers has been included. This make the SKID very flexible to any testing procedure. Leak could be measured (option) by electronic bubbles counter, high accuracy water column

(API) , turbine flow meter and mass flow meter (FCI 70-2) . Vacuum pump could be installed (option) to assure the absence of air inside valve's body before filling it with water; in order to reduce test time and increase operator's safety. All wet process components are stainless steel made and dimensioned for a working pressure of 700 bar (1200/2100 bar as option).

It has a high filling flow ability and the recovering of test fluid is automatic. Metal to metal needle valves assure high reliability. A PC windows based for data recording could be included, instrumentation supplied with MODBUS serial interface protocol (TestREC2.0-M).



SKMM-50/Gas/B2

SKMM-100/Gas/B2

SKMM-100/Gas/B3

SKMM- 100/GAS - B4

-	-	-	-
200 bar 200 bar	450 / 700 / 1380 bar -	1050 bar -	N2 60 / 200/ 700 bar contemporary, AIR 60 / 200 bar contemporary
-	-	-	-
-	-	-	-
Available	Available	Available	Available
Available	Available	Available	Available
Available	Available	Available	Available
Bidirectional	Bidirectional	Bidirectional.	Bidirectional
GAS (N2, He, AIR)	GAS (N2, He, AIR)	GAS (N2, He)	GAS (N2, He)
Manual needle valve on graphical synoptic panel	Manual valve & Electrical lighted pushbuttons installed on graphical synoptic panel	Manual valve & Electrical lighted pushbuttons installed on graphical synoptic panel	Manual valve & Electrical lighted pushbuttons installed on graphical synoptic panel
Analog pressure gauge	4-20mA Pressure transmitter + 7-seg Digital Display	4-20mA pressure trasmitter + LCD	4-20mA pressure trasmitter + 7-seg Digital Display
API / DIN / BS / FCI	API / DIN / BS / FCI	API / DIN / BS / FCI	API / DIN / BS / FC
-	RS-485 MODBUS PROTOCOL	RS-232	RS-485 MODBUS PROTOCOL
-	Option TestREC5.4-M	Option TestREC5.4	Option TestREC5.4-M
ANSI Bubbler, Bubbles counter. Volumetric bubbler, Mass Flowmeters Water column, Digital water column, Turbine flowmeters.	ANSI Bubbler, Bubbles counter. Volumetric bubbler, Mass Flowmeters -	ANSI Bubbler, Bubbles counter, Volumetric bubbler. -	ANSI Bubbler, Bubbles counter, Volumetric bubbler. -
BSPP 1/4"	NPT 1/2"-F, HP 1/4"-F 7bar @ 2000 L/min Other available on request	NPT 1/2"-F / HP 1/4"-F / HP 3/8"-F 7bar @ 2000 L/min Other available on request	NPT 1/2"-F / HP 1/4"-F / HP 3/8"-F 7bar @ 2000 L/min Other available on request
2Ph+G 220V@50Hz 1KW Other available on request	2Ph+G 220V@50Hz 1KW Other available on request	2Ph+G 220V@50Hz 1KW Other available on request	2Ph+G 220V@50Hz 1KW Other available on request
600(L) x 600(P) x 1020(H)	700(L) x 1120(P) x 1120(H)	700(L) x 1120(P) x 1120(H)	1000 (L) x 1280 (P) x 2000 (H) Bullet proof class BR6 dim. 900 (L) x 700 (P) x 700 (H)

Accessories



CCMP/200 AIR COMPRESSOR



Mechanical assembly options available

OP	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
						●														

Air compressor skid.
It is formed by electric 3 stage compressor able to pressurize ambient air up to 330 bar as std.
Reservoir tank and final pressure booster are available as options.
Maximum outlet pressure: 1000 bar.

Outlet pressure	:	330 bar std 1000 bar con opt. booster
Flow ability	:	200 SL/min (8 min to pressurize 10 L vessel up to 200 bar).
Final booster	:	Optional – Available on request
Reservoir tank	:	150 L @ max 330 bar
Noise level	:	79 Db (ISO-3746)
Electrical supply	:	3PH + T, 380V@50Hz, 5KW
Pneumatic supply	:	6.5 bar @ 2500 NI/min Dry not lubricated ISO-8573 Level 4
Dimensions	:	90(L) x 2100(P) x 2100(H)

SK-PC01 PERSONAL COMPUTER CONSOLE



Console for windows passed Personal Computer.
Ideal for workshop certification applications.

The console included:

Cabinet mounted on wheels with ventilation equipment
Personal computer with LCD 18.5" screen.
Keyboard & mouse
CCD bar code reader.
B/W Laser printer.

Personal Computer	:	Processor Intel Core 2 Duo E7500 (or above) (2.93GHz, 1066MHz, 3MB) - SO Windows 7 Professional HD 320GB Serial ATA (7,200 Rpm) - RAM 3GB
LCD screen	:	Widescreen 18.5 E1910H - 18,5" Visible area 470 mm – Black color - Brightness 250 cd / m ² – contrasto 1000:1
Printer	:	LASER monochrome A4 24 ppm, 600x600 dpi
Electric supply	:	2PH + T, 220V@50Hz, 1KW
Dimensions	:	717 (L) x 595 (P) x 1625 (H)

Accessories

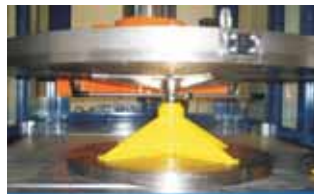


CV-1200/ 1700/ 2200/ 2700 VALVE SUPPORT



CV-1200	700mm – 1200mm	1000kg
CV-1700	1000mm – 1700mm	1000Kg
CV-2200	1500mm – 2200mm	1000Kg
CV-2700	2200mm – 2700mm	1000Kg

PLT-600, PLT-2000 PLATEAU LOADING TOOL



Plateau loading tools. With this accessories it is possible to install sealing plateau on vertical rig rapidly and under high safety conditions. It is available in 2 size: 600Kg – 2000Kg

RE-01 PORTABLE DIGITAL RECORDER FOR PRESSURE MESURE



Portable digital recorder for pressure mesure. Recorder data can be stored on USB key. Certification software supplied along the unit, can read encrypted data on USB data storage to print out full waveforms.

BC-01 PORTABLE DIGITAL BUBBLES COUNTER

Portable digital bubbles counter. Impedance variation detector amplifier is able to detect bubbles release from 1/4" glass pipe .



Leak Flow	:	max 3 bubbles /sec
Connessioni	:	BSPP 1/4"
Electric supply	:	2PH + T, 220V@50Hz, 100W
Dimensions	:	220 (L) x 268 (P) x 95 (H)

ACP-01 Actuator control panel



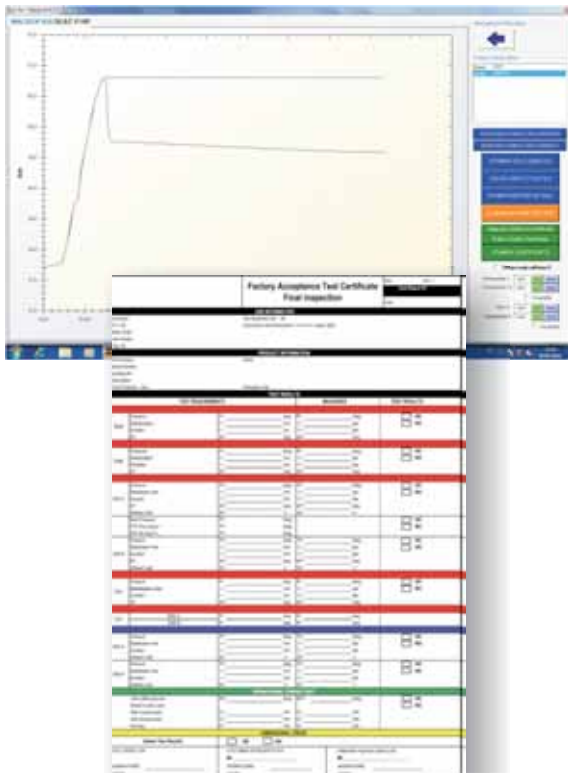
Pneumatic Supply Sources	:	0-6 bar @ 3500 NL/min, w/analog indication (1x) 0-6 bar @ 340 NL/min, w/analog indication (2x) 6 bar, fixed supply DN 6mm (3x) 6 bar, fixed supply DN 12mm (3x)
Pneumatic Control Signal	:	0-145.0 PSI @ 770NL/min with digital indication, 10 turns controls potentiometer
Electrical Supply sources	:	0 – 260V @ 1A , with digital indication, 0 – 110V DC, with digital indication.
Electrical control signal	:	0 – 30 V DC @ 3A with digital indication, 10 turns controls potentiometer 0 – 21,0 mA @ 1200 ohm with digital indication, 10 turns controls potentiometer
HART USB2.0 connection	:	Available on request.
Assembly asset	:	Fixed / Portable

Certification software



TestREC5.4-PSV

CERTIFICATION SOFTWARE
MODBUS INTERFACE FOR PSV TEST



TestREC is a new software for test machines monitoring and management, that allows the operator a complete control of the test process from a safety distance. The test data are read in real time from the machine and displayed on PC Monitor, so that the operator is aware at any time of the test progress and advised of any problem.

TestREC records all the valves tests results on a searchable database to produce graphs and statistics, helping the manufacturer to identify the critical issues in their products and simplify the problem-solving phase.

The operator puts the valve data and can decide whether to use one pre-installed process configuration (recipes) or manually arrange and save any setting of the test bench in the database in order to create their own recipes.

The data collected by the PLC are stored in real time and showed up to 7 channels simultaneously in a clear and simple chart window.

The chart window design allows the test bench full control at a glance by the operator and the immediate recognition of potentially critical situations.

TestREC has a full tool of Graphic reports.

Any data channel of any test performed at any time can be retrieved and showed in clear and exhaustive charts. A test certificate report can be printed in PDF format, and the test charts results can be added to the report.

Technical Specifications :

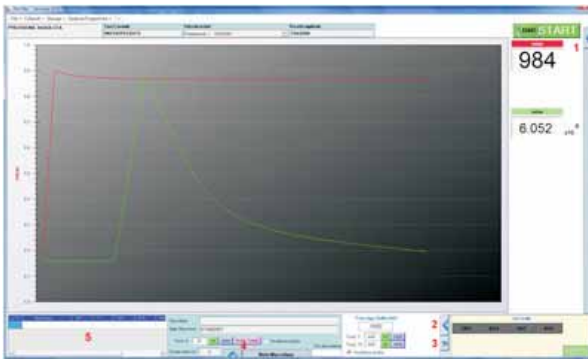
- Up to 10 channels simultaneous retrieved
- Multi-threaded process to ensure continuity of data reading in conjunction with the graphical display
- Management of the double Y axis graph in real-time and historical data
- Fully customizable recipes
- English and Italian languages
- Database management with integrated data backup and restore
- Compatible with all Windows versions from XP Sp3 onward
- Pressure vs. time, Temperatures vs time Zoom, Hold and auto-stop registration ability indications of simmer point, POP pressure, blowdown range, pressure drop.
- Certifications export in PDF format or XLS

Certification software



TestREC 5.4-M

CERTIFICATION SOFTWARE MODBUS INTERFACE



TestREC5.4 FS allow to connect a Windows based PC at pressurization skid class SKM with instrumentation for

FIRE SAFE TEST according to API-589 / API-607 or CRYO TEST(N°7 thermocouple K, N°4 Pressures, N°1 water Level transmitter); it can download data and printout a test report. SW control a communication between PC and Instrumentation (RS485 e/o MODBUS Protocol). There are several working option and a useful setup utility to verify the accuracy of pressure transmitters installed on skid.

Test session started with TestREC3.0-M could be stopped, saved, printed and recalled from memory to be completed.

TestREC3.0-M could be installed on following hardware or superior:

PC: Windows 7
Memory RAM: 256M
Hard-Disk: 100MB min free space
CD-ROM: 16x
Porta seriale: RS-232C 9-pin

Access controlled : Identification password
Operative sessions : On-line connected to test rig, Off-line to edit or modify saved test report

Trends: Pressure vs. time, Temperatures vs time
Zoom, Hold and auto-stop registration ability
Possibilità di Zoom, Hold della depressione, auto-arresto.

Data format : Waveforms data stored in csv file format

Printout : Product data and historical report stored in ASCII file
test report printout with social LOGO and waveforms in A4 full page format.

TestREC 5.4 SYSWAY CERTIFICATION SOFTWARE



TestREC5.4 allow to connect a Windows based PC at pressurization skid class SKA and configure test sequence, modify test parameters, and downloading data to printout a test report. SW control a bidirectional communication between product & test database and PLC on test rig. There are several working option and a useful setup utility to verify the accuracy of pressure transmitters installed on skid. Test session started with TestREC2.0 could be stopped, saved, printed and recalled from memory to be completed. A historical register saved in ASCII file can give the produced pieces, OK / KO test results.

Option Torque Trend (fig. 4) allow to display waveform of torque vs. movement angle; useful to check nominal values of break to open, running e break to close torque. The samples are collect by DMA transfer (available only on test rigs with torque measure facilities).

TestRec2.0 could be installed on following hardware or superior:

PC: Windows 7
Memory RAM: 256M
Hard-Disk: 100MB min free space
CD-ROM: 16x
Porta seriale: RS-232C 9-pin

Access controlled : Identification password
Operative sessions : On-line connected to test rig, Off-line to edit or modify saved test report
Trends : Pressure vs. time, Temperature vs time (option), torque vs. angle (option)
Zoom, Hold and auto-stop registration ability
Possibilità di Zoom, Hold of pressure measure, auto-stop of recording.

Data formats : Historical report with: date, time, serial number, test results

Printout : Waveforms data stored in csv file format
Product data and historical report stored in ASCII file
test report printout with social LOGO and waveforms in A\$ full page format

Mechanical Optionals

1

PROTECTION BELLOWS.

Plastic fiber protection bellows for screwed columns.

This option avoid excessive dust deposit on greased columns and damages due collision against valve during loading procedures.

2

BORE PLUGS SET

- a. Set Of Plugs for inner radial bore sealing, designed for BW ending valves. Size range for each pressure class must be declared in P.O.
- b. Set Of Plugs for inner radial bore sealing, designed for RF ending valves. Size range for each pressure class must be declared in P.O.
- c. Set Of Plugs for inner radial bore sealing, designed for RTJ ending valves. Size range for each pressure class must be declared in P.O.

3

O.D. BORE PLUGS

Set of female Plugs for external radial sealing, designed for PUBs ending valves or pipes. Size range must be declared in P.O.

4

FLAT SEAL PLATEAU SET

- a. Two O-Ring plateau designed for RF flanged valves with API minimum bore requirement. Size range must be declared in P.O.
- b. Two O-Ring plateau designed for RTJ flanged valves with API minimum bore requirement. Size range must be declared in P.O.

5

WIRELESS REMOTE CONTROLLER

Wireless remote radio controller for rig movement command. Option include receiver, transmitter, rechargeable battery set and re-charger.

6

AISI BASEMENT WATER VESSEL

Basement water vessel made in AISI-304 SS (standard vessel in made in carbon steel zink plated).

7

HYDRAULIC VALVE LIFTER

- a. Lower lifter trolley with hydraulic cylinder 5 TON max lifting force. Stroke: 300 mm
- b. Double Lower lifter trolley with hydraulic cylinder 2 x 5TON max lifting force. Stroke: 300 mm
- c. Double Lower lifter trolley with hydraulic cylinder 2 x 10 TON max lifting force. Stroke: 300 mm

8

SCREW JACK VALVE LIFTER

- a. Lower lifter trolley with screw-jack hydraulically controlled 10 TON max lifting force. Stroke: 400 mm. Other on request.
- b. Double Lower lifter trolley with screw-jack hydraulically controlled 2 x 10 TON max lifting force. Stroke: 400 mm. Other on request.
- c. Double Lower lifter trolley with screw-jack hydraulically controlled 2 x 20 TON max lifting force. Stroke: 400 mm. Other on request.
- d. Double Lower lifter trolley with screw-jack hydraulically controlled 2 x 30 TON max lifting force. Stroke: 400 mm. Other on request.

9

V SUPPORT for LIFTERS

V support accessory for std lifters. Max Ø 800 manual adjustment.

10

PROPORTIONAL PRESSING CONTROL

- a. Oil unit with proportional pressure regulation up to 400 bar.
- b. Oil unit with proportional pressure regulation up to 250 bar.

11

LOADING TRAY

- a. Loading tray with hydraulic horizontal movement . Stroke 300 mm. Max load 300Kg
- b. Loading tray with hydraulic horizontal movement . Stroke 400 mm. Max load 500Kg

12

WATER JET PROTECTION

- a. Steel frontal protection manually moved with balance weights guides. (vertical)
- b. Steel frontal protection automatically moved. (vertical)
- c. Steel frontal protection 2 wings, warranty moved.

13

MODULAR CONCRATE / STEEL / WOOD/AI PANELS PROTECTIONS

- a. Linear element 1800L x 2300H
- b. Linear element 3600L x 2300H
- c. 90° Linear armored concrete panel 1200L x 2200H
- d. Sliding GATE 2x1800 doors

14

MODULAR CONCRATE PANELS PROTECTIONS

- a. Linear armored concrete panel 2000L x 2200H
- b. 90° Linear armored concrete panel 2000L x 2200H

15

ON REQUEST

16

BULLET PROOF GLASS PROTECTION

Perimetral protection made in bullet proof PR6 grade crystals with steel structure; protection is designed according customer requirement.

17

FLOOR "V" SUPPORT

- a. Floor lifter tool with V support for Valve . MAX load: 200 Kg. Stroke: 300 mm
- b. Floor lifter tool with V support for Valve . MAX load: 500 Kg. Stroke: 500 mm
- c. Floor lifter tool with V support for Valve . MAX load: 1000 Kg. Stroke: 700 mm

18

HIGH SAFETY OIL UNIT

Oil unit able to ensure clamping force even with electrical power breakdown or air supply failure. Indicated in case of GAS TEST.

19

PLATEAU LOADING TOOLS

- a. Up to 600 kg.
- b. Up to 2000 kg.

20

↓

21

ON SPECIAL REQUEST

Test process

Optionals

- 1 VACUUM GROUP**
Pneumatic Venturi vacuum pump with water separator with automatic drain facilities.
- 40 m³/h
 - 80 m³/h
 - 160 m³/h
- 2 DBB Test (Trunnion mounted Ball Valves)**
Double Block and bleed test facilities. Contemporary pressurization of both valve side and leak flow collection from valve cavity.
- 3 CAVITY Test (Trunnion mounted Ball Valves)**
Test equipment for ball cavity pressurization. This option allow the user to verify tightness for double piston effect seats or pressure set for self reliving seats.
- 4 GAS Test**
High pressure test with GAS. Double discharge line and EMERGENCY shut-off valve
- GAS Test up to 200 bar
 - GAS Test up to 460 bar
 - GAS Test up to 1050 bar
- 5 GAS BOOSTER**
Air driven GAS BOOSTER. Pressurization system supplied by N₂/He tank. This option must be purchased even option Nr. 4
- 6 BUBBLES DIGITAL COUNTER**
- ANSI bubbler with counting sensor. Max 3 bubbles/sec. PLC interface.
 - ANSI bubbler with counting sensor. Max 3 bubbles/sec. Portable STAND Alone counter.
- 7 DIGITAL WATER COLUMN**
- Digital water column. Indication of cubic centimer. PLC Interface.
 - Digital water column. Indication of cubic centimer. Portable STAND alone flowmeter.
- 8 H2O TURBINE FLOW METER SET - PLC INTERFACE**
- 300 - 3000 mL/min
 - 300 - 3000 ml/min res. 2.5 cc | 1500 - 20000 ml/min - res. 8cc
 - 300 - 3000 ml/min res. 2.5 cc | 1500 - 20000 ml/min - res. 8cc | 3000 - 60000 ml/min - res. 25cc
- 9 H2O TURBINE FLOW METER SET - 7 seg DISPLAY**
- 300 - 3000 mL/min
 - 300 - 3000 ml/min res. 2.5 cc | 1500 - 20000 ml/min - res. 8cc
 - 300 - 3000 ml/min res. 2.5 cc | 1500 - 20000 ml/min - res. 8cc | 3000 - 60000 ml/min - res. 25cc
- 10 MASS AIR FLOW METER SET**
- 0.1 SLPM | 1 SLPM | 10 SLPM | 100 SLPM
 - 1 SLPM - 1.5% F.S. | 25 SLPM - 1.5% F.S. | 150 SLPM - 1.5% F.S.
 - 3 SLPM - 1.5% F.S. | 50 SLPM - 1.5% F.S. | 2000 SLPM - 1.5% F.S.
- 11 VOLUMETRIC BUBBLER**
- Max Volume 150 cc
 - Max Volume 1700 cc
- 12 ELECTRIC ACTUATOR CONTROL PANEL**
- 0- 30V DC 5A - Power supply
0 - 21 mA DC signal
 - 380V-50Hz 16 A - 3 phase Back/Farward
- 13 PNEUMATIC ACTUATOR CONTROL PANEL**
0-100 PSI @ 2000 SLPM Supply
0-60 PSI signal
- 14 MULTISTATION PROCESS ASSET**
- 3 Test places
 - 5 Test places
- 15 ATEX CONFORMITY**
- Ethil / Methil alcool
 - Diesel
- 16 WATER TANK**
- 500L. b. 1000L. c. 2000L. d. 3000L. e. 6000L. f. 10000 L.
- 17 CERTIFICATION SOFTWARE**
- Omrom 1000
 - Modbus convertitore 1500
- 18 WORKING PRESSURE UPGRADE**
- 1050 bar b. 1380 bar c. 1600 bar d. 2068 bar e. 4136 bar
- 19 VIDEO CAMERA FOR INSPECTION / SURVEILLANCE**
- Inner articulated camera
 - Inner non articulated camera
 - Surveillance camera whit posizionig joysrier
- 20 CYCLING ENDURANCE TEST**
- with 40L. accumulator & leakage simulators
 - without accumulator & leakage simulators

Valves
Test
Benches

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