

EFCO Testing Equipment

(Valve test benches / Safety Valve Testing in Pipelines / Tank Testing / High-Pressure Generation / Test Documentation / Optional Accessories)

- superior quality - simple operation - many years' experience in the construction of test benches

EFCO VALVE TEST BENCHES

- Stationary / portable (particular for on-site use)
- Manual / automatic
- Horizontal / vertical clamping of test specimens
- Standard / modified or individual to customer requirements

Devices to be tested (with flange / threaded and weld ends)

- Gate valves, valves, check valves, control valves, ball valves, safety valves, housings, pipes, tanks

Test media

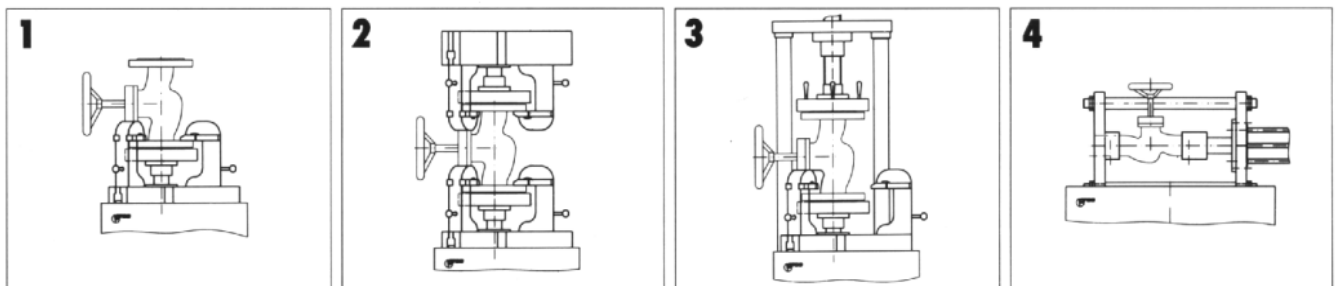
- Water, air, nitrogen, (oil)

Test types

- Strength test of housings, leakage test of spindle glands, leakage test of shut-off devices, set pressure of safety valves.

The above types of test can be carried out in accordance with
DIN 3230 ; DIN-EN 12266 ; API 598 ; API 6D ; ASME B16.34 ; ASME B16.104 and FCI 70-2 !

Clamping positions for valves



Selection from the standard range

DN	PS 7.5	PS-T 10	PS 15	PS 30	PS 50	PS 75	PS 100	PS 140	PS-H 250	PS-H350
mm (")	7.5 t*	10 t*	15 t*	30 t*	50 t*	75 t*	100 t*	140 t*	250 t*	350 t*
10 (3/8")	200	200			<i>max. test pressure (bar)</i>					
15 (1/2")	200	200	200	200	200	200				
25 (1")	200	200	200	200	200	200				
50 (2")	200	200	200	200	200	200				
100 (4")	60	70	100	200	200	200	200	200	200	200
150 (6")		35	55	110	180	200	200	200	200	200
200 (8")		20	30	65	110	165	200	200	200	200
250 (10")			25	45	80	120	160	200	200	200
400 (16")				20	30	50	70	90	160	200
500 (20")				10**	20**	30**	40	50	100	140
600 (24")									70	100
800 (32")									40	60
Clamping positions	1, 4	1	1, 3	1, 3	1, 3	1, 3	1, 2, 3	2	4	4

*Tensioning power in t

**Option

(1bar = 0.1MPa = 1.02kg/cm² ≈ 14.5psi ≈ 14.5lb/in²)

Simple determination of tensioning power required using the tensioning power table

TENSIONING POWER TABLE																				
TEST PRESSURE (bar) (1bar = 0.1MPa = 1.02kg/cm² ≈ 14.5psi ≈ 14.5lb/in²)																				
DN mm	A cm²	10	16	25	38	40	60	64	96	100	150	160	240	250	320	375	400	480	600	bar
15 (½")	8.04	80,4	128,6	201	306	322	482	515	772	804	1206	1286	1930	2010	2573	3015	3216	3899	4824	
20 (¾")	8.04	80,4	128,6	201	306	322	482	515	772	804	1206	1286	1930	2010	2573	3015	3216	3899	4824	15t
25 (1")	8.04	302	438	755	1148	1208	1812	1933	2899	3020	4530	4832	7248	7550	9664	11325	12080	14647	18120	
32 (1 ¼")	30.2	302	438	755	1148	1208	1812	1933	2899	3020	4530	4832	7248	7550	9664	11325	12080	14647	18120	
40 (1 ½")	30.2	302	438	755	1148	1208	1812	1933	2899	3020	4530	4832	7248	7550	9664	11325	12080	14647	18120	
50 (2")	30.2	302	438	755	1148	1208	1812	1933	2899	3020	4530	4832	7248	7550	9664	11325	12080	14647	18120	30t
65 (2 ½")	66.4	664	1062	1660	2523	2656	3984	4250	6374	6640	9960	10624	15936	16600	21248	24900	26560	32204	39840	
80 (3")	66.4	664	1062	1660	2523	2656	3984	4250	6374	6640	9960	10624	15936	16600	21248	24900	26560	32204	39840	50t
100 (4")	115	1150	1840	2875	4370	4600	6900	7360	11040	11500	17250	18400	27600	28750	36800	43125	46000	55775	69000	100t
125 (5")	169.6	1696	2714	4240	6445	6784	10176	10854	16282	16960	25440	27136	40704	42400	54272	63600	67840	82256	101760	140t
150 (6")	246	2460	3936	6150	9348	9840	14760	15744	23616	24600	36900	39360	59040	61500	78720	92250	98400	119310	147600	
200 (8")	404.5	4045	6472	10113	15371	16180	24270	25888	38832	40450	60675	64720	97080	101125	129440	151688	161800	196183	242700	
250 (10")	547	5470	8752	13675	20786	21880	32820	35008	52512	54700	82050	87520	131280	136750	175040	205125	218800	265295	328200	
300 (12")	824	8240	13184	20600	31312	32960	49440	52736	79104	82400	123600	131840	197760	206000	263680					
350 (14")	1104	11040	17664	27600	41952	44160	66240	77656	105984	110400	165600	176640	264960	276000	353208					
400 (16")	1385	13850	22160	34625	52630	55400	83100	88640	132960	138500	207750	221600	332400	346250						
500 (20")	2247	22470	35952	56175	85386	89880	134820	143808	215712	224700	337050	359520	539280	561750						
600 (24")	3116	31160	49856	74900	118408	124640	186960	199424	299136	311600	467400	498560	747840							
700 (28")	4183	41830	66928	104575	158954	167320	250980	267712	401568	418300	627450	669280								
800 (32")	5408	54080	86528	135200	205504	216320	324480	346112	519168	540800	811200									
900 (36")	6793	67930	108688	169825	258134	271720	407580	434752	652128											
1000 (40")	8333	83330	133328	208325	316654	333320	499980													
TENSIONING POWER (daN*)																				
* 1000 daN corresponds to about 1 t																				

TENSIONING POWER (daN*)

* 1000 daN corresponds to about 1 t

Subject to technical change.

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Agencies in many countries

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