Balflex®



European Technology

Established since 1963, **Balflex**[®] is a European international group of companies dedicated to the design, production, assembly and distribution of all types of high-tech products for conduction of fluids, measuring of pressure and power transmission at very high quality level.

59 years of know-how and expertise in this field, makes **Balflex**[®] the first choice for the mining, agriculture, off-shore and construction industries.

Today the **Balflex®** Group covers worldwide users through our own company's production facilities, branches and net of certified distributors.

Balflex[®] valorizes the inside meaning of the words we use: **Excellence** the quality of being outstanding; **Innovation** the action or process of innovating; **Partnership** cooperation relationship between two or more people, having in mind a common goal; **Tradition** way of thinking or acting, inherited from previous generations.







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Quality

Quality is very important for us. We have fully equipped, modern laboratories and equipment, employing the industries most experienced personnel.

Balflex[®] has earned various certifications for our Management Systems and Products. This reliable and consistent approach has allowed us to achieve our ISO 9001:2015 certification. At Balflex[®] quality and service always comes first. We are dedicated to continue the development of new products with a strong emphasis on quality.











Balflex[®] MicroTest Check Line Hoses, Connectors & Gauges

Balflex® *MicroTest* is the range of hoses, couplings and gauges for check lines in hydraulic or refrigeration systems. **Balflex®** *MicroTest* is produced according to **Balflex®** specifications and to **ISO**, **DIN** and **SAE** standards and other relevant industrial specifications. The range comprises:



- Balflex® MicroTest hoses and hose fittings for check lines
- Balflex® MicroTest carbon steel connectors for check lines
- Balflex® MicroTest stainless steel connectors for check lines
- Balflex® MicroTest anti-shock valves for pressure gauges

The Balflex® MicroTest parts code is composed of three groups of digits:



Balflex®



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Male Fittings

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ORFS Male Fitting, UNF Thread ORFS Male Fitting, UNF Thread 05.HF21.

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05.HF22.





Swivel Female Fitting JIC 74° **Connection Type DKJ** 05.HF19. pag. 27



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Balflex[®] MicroTest Hose Fittings

Universal MicroTest pressure take connector with Metric 16 x 2,0 connection





05.PT01. - 05.PT02 Metric parallel

05.PT03. Metric parallel



05.PT04. B.S.P. parallel

	working pressure		dimensions			
REFERENCE	bar	PSI	А	L	Н	HEX
08.PT01.08	250	3625	M8 x 1	8,5	37	17
08.PT01.10	630	9140	M10 x 1	8,5	37	17
05.PT02.04	630	9140	7/16" - 20 UNF	9	37	17
05.PT02.05	630	9140	1/2" - 20 UNF	10	37	17
05.PT02.06	630	9140	9/16" - 18 UNF	10	37	19
05.PT02.08	630	9140	3/4" - 16 UNF	14	37	22
05.PT03.10	400		M 10x1	8	37	17
05.PT03.12	630	9140	M 12x1.5	12	37	17
05.PT03.14	630	9140	M 14x1.5	12	37	19
05.PT03.16	630	9140	M 16x1.5	12	37	22
05.PT04.02	630	9140	ISO 228 G 1/8"	8	37	17
05.PT04.04	630	9140	ISO 228 G 1/4"	12	37	19
05.PT04.06	630	9140	ISO 228 G 3/8"	12	37	22
05.PT04.08	630	9140	ISO 228 G 1/2"	14	37	27

MATERIAL: Carbon steel body, zinc plated; nitrile rubber seal; cap in plastic or metal

WORKING TEMPERATURE: -30°C to +100°C

VERSIONS: also available in stainless steel and viton seals for working temperatures up to +200°C (+392°F); most types also available with plug-in connection instead of standard MI6 x 2,0 connection; plastic caps and metallic caps are alternatively available and should be specified with the order, as well as the cap binder.

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Balfit[®] MicroTest Hose Fittings

Universal MicroTest pressure take connector with Metric 16 x 2,0 connection





05.PT05. Metric parallel

05.PT06. B.S.P. parallel - Form B





05.PT07. B.S.P tapered

05.PT08. NPTF

	working pressure		dimensions			
REFERENCE	bar	PSI	А	L	Н	HEX
05.PT05.10	630	9140	M 10x1	8	37	17
05.PT05.12	630	9140	M 12x1.5	12	37	17
05.PT05.14	630	9140	M 14x1.5	12	37	19
05.PT05.16	630	9140	M 16x1.5	12	37	22
05.PT06.02	630	9140	ISO 228 G 1/8"	8	37	17
05.PT06.04	630	9140	ISO 228 G 1/4"	12	37	19
05.PT06.06	630	9140	ISO 228 G 3/8"	12	37	22
05.PT06.08	630	9140	ISO 228 G 1/2"	14	37	27
05.PT07.02	630	9140	ISO 7/1 R 1/8"	10	37	17
05.PT07.04	630	9140	ISO 7/1 R 1/4"	12	37	19
05.PT07.06	630	9140	ISO 7/1 R 3/8"	14	37	22
05.PT08.02	630	9140	1/8"-27 NPTF	10	37	17
05.PT08.04	630	9140	1/4"-18 NPTF	14	37	17
05.PT08.06	630	9140	3/8"-18 NPTF	14	37	22
05.PT08.08	630	9140	1/2"-14 NPTF	18	37	24

MATERIAL: Carbon steel body, zinc plated; nitrile rubber seal; cap in plastic or metal WORKING TEMPERATURE: -30°C to +100°C

VERSIONS: also available in stainless steel and viton seals for working temperatures up to +200°C (+392°F); most types also available with plug-in connection instead of standard M16 x 2,0 connection; plastic caps and metallic caps are alternatively available and should be specified with the order, as well as the cap binder.





Balfit[®] MicroTest Hose Fittings

Universal MicroTest pressure take connector with Metric 16 x 2,0 connection







05.PT11. Bulkhead test coupling



05.PT12.

Bulkhead test coupling for metal pipe fitting M 16x2

	working pressure		dimensions			
REFERENCE	bar	PSI	D	L	н	
05.PT09.06	630	9140	6	20	37	
05.PT09.08	630	9140	8	20	37	
05.PT09.10	630	9140	10	20	37	
05.PT09.12	630	9140	12	20	37	
05.PT09.15	630	9140	15	20	37	
05.PT10.06	630	9140	6	20	37	
05.PT10.08	630	9140	8	20	37	
05.PT10.10	630	9140	10	20	37	
05.PT10.12	630	9140	12	20	37	
05.PT10.14	630	9140	14	20	37	
05.PT10.16	630	9140	16	20	37	

	working	pressure	dimensions				
REFERENCE	bar	PSI	А	D	н	HEX1	HEX2
05.PT11.16	630	9140	M 16x2		72	19	
05.PT12.16	630	9140	M 16x1.5	8	82	19	20
05.PT12.18	630	9140	M 18x1.5	10	81	22	20
05.PT12.20	630	9140	M 20x1.5	12	80	24	20

MATERIAL: Carbon steel body, zinc plated; nitrile rubber seal; cap in plastic or metal

VERSIONS: also available in stainless steel and viton seals for working temperatures up to +200°C (+392°F); most types also available with plug-in connection; plastic caps and M16 x 2,0 connection; plastic caps and metallic caps are alternatively available and should be specified with the order, as well as the cap binder.



Balfit® MicroTest Connectors

Universal MicroTest pressure take connector with Metric 16 x 2,0 connection





05.PT13. - 05.PT23. Test coupling with 24° O-Ring sealing cone DKO type



	working pressure		dimensions				
REFERENCE	bar	PSI	А	D	н	HEX1	HEX2
05.PT13.12	630	9140	M 12x1.5	6	53	14	17
05.PT13.14	630	9140	M 14x1.5	8	55	17	17
05.PT13.16	630	9140	M 16x1.5	10	56	19	19
05.PT13.18	630	9140	M 18x1.5	12	57	22	19
05.PT13.22	630	9140	M 22x1.5	15	59	27	22
05.PT13.26	630	9140	M 26x1.5	18	59	32	22
05.PT13.30	630	9140	M 30x2	22	57	36	27
05.PT13.36	630	9140	M 36x2	28	63	41	17
05.PT13.45	630	9140	M 45x2	35	70	50	17
05.PT13.52	630	9140	M 52x2	42	70	60	17
05 PT2314	630	9140	M 14x1.5	6	54	17	17
05.PT23.16	630	9140	M 16x1.5	8	56	19	17
05.PT23.18	630	9140	M 18x1.5	10	57	22	19
05.PT23.20	630	9140	M 20x1.5	12	58	24	19
05.PT23.22	630	9140	M 22x1.5	14	59	27	22
05.PT23.24	630	9140	M 24x1.5	16	60	30	22
05.PT23.30	630	9140	M 30x2	20	61	36	27
05.PT23.36	630	9140	M 36x2	25	69	46	17
05.PT23.42	630	9140	M 42x2	30	72	55	17
05.PT23.52	630	9140	M 52x2	38	76	60	17
05 074 / 0 /	(00						
05.P114.04	630	9140	1/16"-20 UNF		57	17	14
05.PT14.05	630	9140	1/2"-20 UNF		55	17	17
05.PT14.06	630	9140	9/16"-18 UNF		52	17	17
05.PT14.08	630	9140	3/4"- 16 UNF		59	19	22
05.PT14.10	630	9140	7/8"- 14 UNF		64	24	27

MATERIAL: Carbon steel body, zinc plated; nitrile rubber seal; cap in plastic or metal

WORKING TEMPERATURE: -30 C to +100 C

VERSIONS: also available in stainless steel and viton seals for working temperatures up to $+200^{\circ}C$ (+ 392^oF); most types also available with plug-in connection instead of standard M16 x 2,0 connection; plastic caps and metallic caps are alternatively available and should be specified with the order, as well as the cap binder.



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Balfit[®] MicroTest Hose Ferrule and Fittings

Swaged ferrule and fittings for MicroTest high pressure gauge lines









05.FE01. Ferrule

05.HF01. Coupling threaded female fitting

05.HF41. Coupling threaded female fitting 45°

05.HF91.

Coupling threaded female fitting 90°

	working pressure		dimensions		
REFERENCE	bar	PSI	А	L	HEX
05.FE01	630	9140	8	15	19
05.HF01.17	630	9140	M 16x2	32.5	19
05.HF01.16	630	9140	M 16x1.5	32.5	19
05.HF41.17	630	9140	M 16x2	48	19
05.HF41.16	630	9140	M 16x1.5	48	19
05.HF91.17	630	9140	M 16x2	34.5	19
05.HF91.16	630	9140	M 16x1.5	34.5	19

MATERIAL: Carbon steel body, zinc plated W

WORKING TEMPERATURE: -40°C to +100°C

VERSIONS: also available in stainless steel for working temperatures up to +200°C (+ 392°F)





Balfit[®] MicroTest Plug-in Connection

Swaged ferrule and fittings for MicroTest high pressure gauge lines







05.HF02. Plug-in connection

05.HF42. Plug-in connection 45°

05.HF92. Plug-in connection 90°

	working pressure		dimensions		
REFERENCE	bar	PSI	L	н	
05.HF02.20	630	9140	27		
05 HE42 20	630	9140	56	22	
00.111 42.20	000	7170	55	LL	
05.HF92.20	630	9140	32	28	

MATERIAL: Carbon steel body, zinc plated WORKING TEMPERATURE: -40°C to +100°C

VERSIONS: also available in stainless steel for working temperatures up to +200°C (+ 392°F)





Balfit[®] MicroTest Hose Ferrule and Fittings

Swaged ferrule and fittings for MicroTest high pressure gauge lines





05.HF03.

05.HF43.

Swivel female fitting 60° cone connection type DKR

Swivel female fitting 60° cone connection type DKR 45°



05.HF93.

Swivel female fitting 60° cone connection type DKR 90°

	working pressure		dimensions			
REFERENCE	bar	PSI	А	L	н	HEX
05.HF03.02	630	9140	G 1/8	24		14
05.HF03.04	630	9140	G 1/4	26		17
05.HF03.06	630	9140	G 3/8	29		22
05.HF43.02	630	9140	G 1/8	44.5	15	14
05.HF43.04	630	9140	G 1/4	47.5	16	17
05.HF93.02	630	9140	G 1/8	34	20	14
05.HF93.04	630	9140	G 1/4	36.5	27.5	17

MATERIAL: Carbon steel body, zinc plated

WORKING TEMPERATURE: -40°C to +100°C

VERSIONS: also available in stainless steel for working temperatures up to +200°C (+ 392°F)



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Balfit[®] MicroTest Hose Ferrule and Fittings

Swaged ferrule and fittings for MicroTest high pressure gauge lines







05.HF04.

Gauges threaded fitting

05.HF44. Gauges threaded fitting 45°

05.HF94. Gauges threaded fitting 90°

	working pressure		dimensions				
REFERENCE	bar	PSI	А	L	н	HEX	
05.HF04.04	630	9140	G 1/4	26		19	
05.HF04.06	630	9140	G 3/8	24		22	
05.HF04.08	630	9140	G 1/2	33.5		27	
05.HF44.04	630	9140	G 1/4	47	14	19	
05.HF44.08	630	9140	G 1/2	54.5	21	27	
05.HF94.04	630	9140	G 1/4	38.0	25	19	
05.HF94.08	630	9140	G 1/2	41.5	37.5	27	

MATERIAL: Carbon steel body, zinc plated WORKING TEMPERATURE: -40°C to +100°C

VERSIONS: also available in stainless steel for working temperatures up to +200°C (+ 392°F)



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Balfit[®] MicroTest Hose Ferrule and Fittings

Swaged fittings for MicroTest high pressure gauge lines





05.HF05.

05.HF45.

Swivel female fitting 24° cone connection type DKOL

Swivel female fitting 24° cone connection type DKOL 45°



05.HF95.

Swivel female fitting 24° cone connection type DKOL 90°

	working pressure		dimensions				
REFERENCE	bar	PSI	А	L	н	HEX	
05.HF05.12	630	9140	M 12x1.5	31.6		14	
05.HF05.14	630	9140	M 14x1.5	31.6		17	
05.HF05.16	630	9140	M 16x1.5	31.5		19	
05.HF05.18	630	9140	M 18x1.5	36		22	
05.HF45.12	630	9140	M 12x1.5	47.5	15	14	
05.HF45.14	630	9140	M 14x1.5	52	16	17	
05.HF45.16	630	9140	M 16x1.5	56	19	19	
05.HF95.12	630	9140	M1 2x1.5	35.5	25	14	
05.HF95.14	630	9140	M 14x1.5	40.5	36	17	
05.HF95.16	630	9140	M 16x1.5	41.5	36	19	

MATERIAL: Carbon steel body, zinc plated

WORKING TEMPERATURE: -40°C to +100°C

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Balfit[®] MicroTest Hose Ferrule and Fittings

Swaged fittings for MicroTest high pressure gauge lines







05.HF06.

Coupling threaded female fitting with hexagonal nut

05.HF46.

Coupling threaded female fitting with hexagonal nut 45°

05.HF96.

Coupling threaded female fitting with hexagonal nut 90°

	working pressure		dimensions				
REFERENCE	bar	PSI	А	L	н	HEX	
05.HF06.17	xxx	xxx	M 16x2	32.5		19	
05.HF06.16	630	9140	M 16x1.5	32.5		19	
05.HF46.17	630	9140	M16x2	48	18	19	
05.HF96.16	630	9140	M16x1.5	48	18	19	
05.HF46.17	630	9140	M16x2	34.5	31	19	
05.HF96.16	630	9140	M16x1.5	34.5	31	19	



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Balfit[®] MicroTest Hose Ferrule and Fittings

Swaged fittings for MicroTest high pressure gauge lines





05.HF07.

05.HF47.

Swivel female fitting 24° cone connection type DKOS

Swivel female fitting 24° cone connection type DKOS 45°



05.HF97.

Swivel female fitting 24° cone connection type DKOS 90°

	working pressure		dimensions				
REFERENCE	bar	PSI	А	L	Н	HEX	
05.HF07.14	630	9140	M 14x1.5	31.6		17	
05.HF07.16	630	9140	M 16x1.5	31.6		19	
05.HF07.18	630	9140	M 18x1.5	31.5		22	
05.HF07.20	630	9140	M 20x1.5	36		24	
05.HF47.14	630	9140	M 14x1.5	47.5	15	17	
05.HF47.16	630	9140	M 16x1.5	52	16	19	
05.HF47.18	630	9140	M 18x1.5	56	19	22	
05.HF97.14	630	9140	M 14x1.5	35.5	25	17	
05.HF97.16	630	9140	M 16x1.5	40.5	36	19	
05.HF97.18	630	9140	M 18x1.5	41.5	36	22	

MATERIAL: Carbon steel body, zinc plated

WORKING TEMPERATURE: -40°C to +100°C

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Balfit[®] MicroTest Hose Ferrule and Fittings

Swaged fittings for MicroTest high pressure gauge lines







05.HF08.

05.HF48.

Swivel female fitting 24° cone connection type DKL

Swivel female fitting 24° cone connection type DKL 45°

05.HF98.

Swivel female fitting 24° cone connection type DKL 90°

	working pressure		dimensions				
REFERENCE	bar	PSI	А	L	н	HEX	
05.HF08.12	630	9140	M 12x1.5	31.5		14	
05.HF08.14	630	9140	M 14x1.5	37		17	
05.HF08.16	630	9140	M16x1.5	36.5		19	
05.HF48.12	630	9140	M 12x1.5	45	14.3	14	
05.HF48.14	630	9140	M 14x1.5	52.3	16	17	
05.HF48.16	630	9140	M 16x1.5	57.3	19	19	
05.HF98.12	630	9140	M 12x1.5	40	22.5	14	
05.HF98.14	630	9140	M 14x1.5	39.5	36.5	17	
05.HF98.16	630	9140	M 16x1.5	42.7	35.8	19	



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Balfit[®] MicroTest Hose Ferrule and Fittings

Swaged fittings for MicroTest high pressure gauge lines





05.HF20.

ORFS female fitting, UNF thread

05.HF24. ORFS female fitting, UNF thread 45°



05.HF29. ORFS female fitting, UNF thread 90°

	working pressure					
REFERENCE	bar	PSI	А	L	Н	HEX
05.HF20.04	630	9140	9/16-18 UNF	28.5	·	19
05.HF20.06	630	9140	11/16-16 UNF	33		22
05.HF24.04	630	9140	9/16-18 UNF	46	15	19
05.HF29.04	630	9140	9/16-18 UNF	37.5	25	19





Balfit[®] MicroTest Hose Ferrule and Fittings

Swaged fittings for MicroTest high pressure gauge lines





Standpipe fitting

05.HF09.

US.HF13. Male fittings L series



Male fittings S series



Male fittings

	working	pressure	dimensions			
REFERENCE	bar	PSI	А	L	HEX	
05.HF09.04	630	9140		36		
05.HF09.06	630	9140		36		
05.HF09.08	630	9140		36		
05.HF09.10	630	9140		36		
05.HF13.12	630	9140	M12x1.5	32	14	
05.HF13.14	630	9140	M14x1.5	32	17	
05.HF13.16	630	9140	M16x1.5	33	19	
05.HF14.14	630	9140	M14x1.5	34	17	
05.HF14.16	630	9140	M16x1.5	34	19	
05.HF14.18	630	9140	M18x1.5	35.5	22	
05.HF15.02	630	9140	G 1/8	31	14	
05.HF15.04	630	9140	G 1/4	36	19	





Balfit[®] MicroTest Hose Fittings

Swaged fittings for MicroTest high pressure gauge lines



Male fittings



Male fittings



05.HF21. JIC 74° Male fitting



05.HF22. ORFS male fitting, UNF thread

	working	pressure	dimensions			
REFERENCE	bar	PSI	А	L	HEX	
05.HF17.02	630	9140	1/8-27 NPTF	28.5	12	
05.HF17.04	630	9140	1/4-18 NPTF	36	17	
05.HF18.02	630	9140	R 1/8	30.5	12	
05.HF18.04	630	9140	R 1/4	33.5	14	
05.HF21.04	630	9140	7/16-20 UNF	38	14	
05.HF21.05	630	9140	1/2-20 UNF	39	17	
05.HF22.04	630	9140	9/16-18 UNF	31	17	

MATERIAL: Carbon steel body, zinc plated

WORKING TEMPERATURE: -40°C to +100°C

VERSIONS: also available in stainless steel for working temperatures up to +200°C (+ 392°F)



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Balfit[®] MicroTest Hose Fittings

Swaged fittings for MicroTest high pressure gauge lines





HEX HEX

Swivel female fitting JIC 74° connection type DKJ

05.HF19.

Swivel female fitting JIC 74° connection type DKJ 45°

05.HF99.

Swivel female fitting JIC 74° connection type DKJ 90°

	working pressure		dimensions				
REFERENCE	bar	PSI	А	L	н	HEX	
05.HF19.04	630	9140	7/16-20 UNF	25		14	
05.HF19.05	630	9140	1/2-20 UNF	26		17	
05.HF19.06	630	9140	9/16-18 UNF	28.5		17	
05.HF49.04	630	9140	7/16-20 UNF	46.5	13	14	
05.HF49.05	630	9140	1/2-20 UNF	46.5	13	17	
05.HF49.06	630	9140	9/16-18 UNF	54.5	15.5	17	
05.HF99.04	630	9140	7/16-20 UNF	37	25	14	
05.HF99.05	630	9140	1/2-20 UNF	36.5	25	17	
05.HF99.06	630	9140	9/16-18 UNF	42	27	17	

MATERIAL: Carbon steel body, zinc plated WORKING TEMPERATURE: -40°C to +100°C

VERSIONS: also available in stainless steel for working temperatures up to +200°C (+ 392°F)



Pressure Gauges







Balflex[®] Manometers Pressure Gauges

Balflex® Manometers / pressure gauges are being used for measuring points with high dynamic pressure, pulsations or vibrations. Hydraulics and compressors..

The range of Balflex® manometers / pressure gauges is produced according to Balflex® specifications, DIN EN 837 – 1 and DIN EN 837 – 2 and ASME B40.100 standards. Balflex® has optimized the construction of these manometers / pressure gauges in order to assure top rated performance, wide range of application, reliability and economy. Among their features are:

Wide range: Balflex® manometers / pressure gauges are available in several series: Stainless Steel case filled with glycerin, with vertical port Stainless Steel case filled with glycerin, with center back port with U-Bracket ABS case, dry, with vertical port ABS case, dry, with center back port

The Balflex® Manometers part code is composed of three groups of digits:





General Guidelines

The end user shall ensure that the correct gauge has been selected and has the correct range and construction. If necessary an isolating valve shall be inserted to facilitate removal for maintenance.

Pressure connections shall be leak tight:

- gauges with parallel threads: the pressure seal is made on the sealing face using a sealing washer which is compatible with the fluid;
- gauges with tapered threads: the pressure seal is normally made by mating of the thread, but it is common practice to apply jointing material to the male thread before assembly. The jointing material shall be compatible with the fluid;

Do not tighten by grasping the case of the gauge as this may cause damage. When first applying pressure, the leak tightness of the connection shall be checked. All gauges shall be mounted vertically unless marked on the dial. When the gauge incorporates a blow out device or blow-out back, a minimum distance of 20mm from any obstacle shall be ensured.

Special Conditions

Mechanical shocks

Pressure gauges shall not be subject to mechanical shocks. If installations are subject to mechanical shocks, gauges shall be mounted remotely and connected by flexible pipe.

Vibrations

When the actual support of the pressure gauge is subject to vibrations several solutions may be considered:

- × use of liquid filled pressure gauges;
- when vibrations are large scale or random, it is preferable to proceed as defined for mechanical shocks.

The presence of vibrations may be detected by continuous oscillations, often irregular, of the tip of the pointer.

Pressure pulses

These are generally present when pressure gauges are installed on pumps. They are the cause of a considerable reduction of the life of the pressure responsive element and movement of the pressure gauge.

They are generally indicated by the large amplitude of the pointer oscillations. It is necessary to reduce these pulses of pressure by interposing a damper between the pressure source and the pressure responsive element.

Overpressure

Any overpressure creates stress in the pressure responsive element and consequently reduces its life and accuracy.

It is therefore always preferable to use an instrument whose maximum scale value is greater than the maximum working pressure and which will consequently absorb overpressure and surges more easily.



Special Conditions

Pressure range

The range should be such that the maximum working pressure does not exceed 75% of the maximum scale value for steady pressure or 65% of the maximum scale value for cyclic pressures.

Safety design

The safety design shall be selected in consideration of safety requirements of the specific applications.

Criteria for the selection of pressure gauges with Bourdon tube are given in table 1.

Table 1: Criteria for selection of pressure gauges with Bourdon tube (safety aspect)

PRESSURE FLUID	LIQUID					GAS OR STEAM (see note 1)										
Case filling		D	ry		Liquid			Dry			Liquid					
Nominal size	< 1	00	≥ 1	100	< 1	00	≥ 1	00	< 1	< 100 ≥ 100		< 100 ≥ 100				
Pressure range (in bar)	≤ 25	> 25	≤ 25	> 25	≤ 25	> 25	≤ 25	> 25	≤ 25	> 25	≤ 25	> 25	≤ 25	> 25	≤ 25	> 25
Minimum safety Design code	0	0	0	0	S1	S1	S1	S1	0	S2	S1	S3	S1	S2	S1	S3

Safety design codes:

- 0 Gauge without blow-out device
- S1 Blow-out device gauge
- S2 Safety pattern gauge without baffle wall
- S3 Safety pattern gauge with baffle wall (providing a higher level of safety)

NOTE 1: All oxygen and acetylene gauges shall be safety pattern gauges.

NOTE 2: Glycerine filled gauges shall not be used with oxygen or other strong oxydising process fluid. For such applications, highly fluorinated and chlorinated liquids can be used.

NOTE 3: This table indicates the normal safety design code. Users must have cognisance of their special requirements and may use safety pattern gauges at pressure lower than 25bar.



Materials

Pressure gauges are manufactured with pressure responsive elements that can be made from various materials. It is therefore necessary to choose from these materials the one best suited to the type of process fluid and its pressure.

The purchaser shall indicate to Balflex® all information concerning the materials which are compatible with the fluid in relation to the specific conditions of measurement.

If none of the standard materials are suitable, it shall be necessary to interpose a separator between the process fluid and the pressure gauge.

Accuracy

The accuracy class required shall be selected from EN 837-1.

Pressure connection

The pressure connection shall be selected from EN 837-1.

Other connections specific to certain industries and applications shall be specified.

Normal size

The size of gauge required shall be selected from EN 837-1.

Mounting

Type of mounting required shall be selected from EN 837-1.

Other criteria

If the application involves pressure pulsations, vibrations, extremes of temperature, shock loading, solids in suspension, viscous or chemically aggressive pressure fluid, hostile environment, or requires correction for a static head, Balflex® shall be consulted.

Storage prior to installation

Gauges should be stored in dry, clean conditions within the temperature range of $-40^{\circ}C(-40^{\circ}F) + 70^{\circ}C(+158^{\circ}F)$ and protected against any impact damage.

Temperature

Ambient Temperature

It is difficult to shield a pressure gauge from an ambient temperature that is too high or too low. One solution consists of moving the gauge away from the source of heat or cold when possible.

A correction shall be applied when a gauge accuracy class 0,6 or better is used at an ambient temperature different from the reference temperature 20°C (-4°F) \pm 2°C (36°F).

Fluid Temperature

To protect a pressure gauge from a fluid which is too hot, a syphon or a similar device may be inserted so as to provide condensed fluid in the pressure responsive element. A syphon or a similar device shall always be placed close to the pressure gauge and be filled with condensate before installation is pressurised in order to avoid the hot fluid reaching the gauge on the initial pressurisation. The fluid in the pressure responsive element shall not be allowed to freeze or crystallize.

When the temperature of the fluid cannot be modified, it is often necessary to insert a separator between the process fluid and the gauge provided the buffer fluid used is capable of withstanding the temperature of the process fluid.

Cleanliness

Certain applications require gauges which are purchased specially cleaned. In such instances the user shall ensure that the instrument is correctly specified and installed (for example: oxygen service pressure gauge oil free).

Effect of liquid columns

The installer shall be aware that if a static head or liquid is acting on the gauge, it shall have been calibrated accordingly and the compensation marked on the dial.



Temperature

Maintenance

The overall safety of an installation often depends on the operating condition of the pressure gauges it contains. It is essential that the measurements indicated by these gauges are reliable.

Thus any pressure gauge whose indications appear to be abnormal shall be immediately removed, verified or recalibrated if necessary. Confirmation of gauge accuracy should be maintained by periodic testing.

Verification and recalibration shall be carried out by competent personnel using appropriated test equipment.



REF 55.1

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Balflex® Bourdon Tube Pressure Gauge

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Der DIN EN 837 - 1 and ASME B40.100 – 55.1111. Less Steel Manometer – Case 63MM (2.1/2") – Glycerin Filled S Connection 1/4"NPT Down									
	serie	cas	case size		ssure				
ERENCE	bar	mm	inch	bar	PSI				
111.007	0 - 7	63	2.1/2"	0 - 7	0 - 100				
111.010	0 – 10	63	2.1/2"	0 - 10	0 - 145				
111.016	0 – 16	63	2.1/2"	0 – 16	0 – 230				
111.025	0 – 25	63	2.1/2"	0 – 25	0 - 360				
111.040	0 - 40	63	2.1/2"	0 - 40	0 – 580				
111.060	0 - 60	63	2.1/2"	0 - 60	0 - 870				
111.100	0 – 100	63	2.1/2"	0 – 100	0 - 1450				
111.160	0 – 160	63	2.1/2"	0 – 160	0 - 2320				
111.250	0 – 250	63	2.1/2"	0 - 250	0 - 3625				
111.300	0 - 300	63	2.1/2"	0 - 300	0 - 4350				
111.400	0 - 400	63	2.1/2"	0 - 400	0 – 5800				
111.500	0 - 500	63	2.1/2"	0 - 500	0 - 7250				
111 600	0 - 600	63	21/2"	0 - 600	0 - 8700				

ACCURACY: 1.6% or 2.5% SCALES: in bar and PSI (red color) WORKING PRESSURE: steady: 3/4 scale value fluctuating: 2/3 full scale value short time: full scale value

0 - 700

BOURDON TUBE: bronze CONNECTION: brass 1/4"NPT down WINDOW: polycarbonate CASE MATERIAL: stainless steel

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CASE SIZE: 63mm (2.1/2") CASE FILL: glycerin 99,5% WORKING TEMPERATURE: -20°C (-4°F) +60°C (+140°F)

0 - 700

2.1/2"

APPLICATIONS: for measuring points with high dynamic pressure, pulsations or vibrations. Hydraulics and compressors.

0 - 10150

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As per DIN EN 837 - 1 and ASME B40.100 - 55.1112.

Stainless Steel Manometer – Case 63MM (2.1/2") – Glycerin Filled Brass Connection 1/4"NPT Center back with U-Bracket

	serie	case size		pressure	
REFERENCE	bar	mm	inch	bar	PSI
55.1112.007	0 - 7	63	2.1/2"	0 - 7	0 - 100
55.1112.010	0 – 10	63	2.1/2"	0 – 10	0 – 145
55.1112.016	0 – 16	63	2.1/2"	0 – 16	0 - 230
55.1112.025	0 – 25	63	2.1/2"	0 - 25	0 - 360
55.1112.040	0 - 40	63	2.1/2"	0 - 40	0 - 580
55.1112.060	0 - 60	63	2.1/2"	0 - 60	0 - 870
55.1112.100	0 – 100	63	2.1/2"	0 – 100	0 - 1450
55.1112.160	0 - 160	63	2.1/2"	0 - 160	0 - 2320
55.1112.250	0 - 250	63	2.1/2"	0 – 250	0 - 3625
55.1112.300	0 - 300	63	2.1/2"	0 - 300	0 - 4350
55.1112.400	0 - 400	63	2.1/2"	0 - 400	0 - 5800
55.1112.500	0 - 500	63	2.1/2"	0 - 500	0 - 7250
55.1112.600	0 - 600	63	2.1/2"	0 – 600	0 – 8700
55.1112.700	0 - 700	63	2.1/2"	0 - 700	0 - 10150

ACCURACY: 1.6% or 2.5% SCALES: in bar and PSI (red color) WORKING PRESSURE: steady: 3/4 scale value fluctuating: 2/3 full scale value short time: full scale value BOURDON TUBE: bronze CONNECTION: brass 1/4"NPT center back with U-Bracket WINDOW: polycarbonate CASE MATERIAL: stainless steel CASE SIZE: 63mm (2.1/2") CASE FILL: glycerin 99,5% WORKING TEMPERATURE: -20°C (-4°F) +60°C (+140°F) **APPLICATIONS:** for measuring points with high dynamic pressure, pulsations or vibrations. Hydraulics and compressors.



Balflex® Bourdon Tube Pressure Gauge



As per DIN EN 837 - 1 and ASME B40.100 - 55.1113. Stainless Steel Manometer - Case 63MM (2.1/2") - Glycerin Filled

Brass Connection 1/4"BSPP Down

	serie	case size		pres	pressure	
REFERENCE	bar	mm	inch	bar	PSI	
55.1113.007	0 - 7	63	2.1/2"	0 - 7	0 – 100	
55.1113.010	0 – 10	63	2.1/2"	0 – 10	0 - 145	
55.1113.016	0 – 16	63	2.1/2"	0 – 16	0 - 230	
55.1113.025	0 - 25	63	2.1/2"	0 – 25	0 - 360	
55.1113.040	0 - 40	63	2.1/2"	0 - 40	0 - 580	
55.1113.060	0 - 60	63	2.1/2"	0 - 60	0 - 870	
55.1113.100	0 - 100	63	2.1/2"	0 - 100	0 - 1450	
55.1113.160	0 - 160	63	2.1/2"	0 - 160	0 - 2320	
55.1113.250	0 – 250	63	2.1/2"	0 – 250	0 - 3625	
55.1113.300	0 - 300	63	2.1/2"	0 - 300	0 - 4350	
55.1113.400	0 - 400	63	2.1/2"	0 - 400	0 - 5800	
55.1113.500	0 - 500	63	2.1/2"	0 - 500	0 - 7250	
55.1113.600	0 - 600	63	2.1/2"	0 - 600	0 - 8700	
55.1113.700	0 – 700	63	2.1/2"	0 - 700	0 - 10150	

ACCURACY: 1.6% or 2.5% SCALES: in bar and PSI (red color) WORKING PRESSURE: steady: 3/4 scale value fluctuating: 2/3 full scale value short time: full scale value

BOURDON TUBE: bronze CONNECTION: brass 1/4"NPT down WINDOW: polycarbonate CASE MATERIAL: stainless steel

CASE SIZE: 63mm (2.1/2") CASE FILL: glycerin 99,5% WORKING TEMPERATURE: -20°C (-4°F) +60°C (+140°F)

APPLICATIONS: for measuring points with high dynamic pressure, pulsations or vibrations. Hydraulics and compressors.

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As per DIN EN 837 - 1 and ASME B40.100 - 55.1114.

Stainless Steel Manometer – Case 63MM (2.1/2") – Glycerin Filled Brass Connection 1/4"BSPP Center back with U-Bracket

	serie	case size		pres	sure
REFERENCE	bar	mm	inch	bar	PSI
55.1114.007	0 - 7	63	2.1/2"	0 - 7	0 - 100
55.1114.010	0 – 10	63	2.1/2"	0 – 10	0 - 145
55.1114.016	0 – 16	63	2.1/2"	0 – 16	0 - 230
55.1114.025	0 - 25	63	2.1/2"	0 - 25	0 - 360
55.1114.040	0 - 40	63	2.1/2"	0 - 40	0 - 580
55.1114.060	0 - 60	63	2.1/2"	0 - 60	0 - 870
55.1114.100	0 - 100	63	2.1/2"	0 - 100	0 - 1450
55.1114.160	0 - 160	63	2.1/2"	0 - 160	0 - 2320
55.1114.250	0 - 250	63	2.1/2"	0 – 250	0 - 3625
55.1114.300	0 - 300	63	2.1/2"	0 - 300	0 - 4350
55.1114.400	0 - 400	63	2.1/2"	0 - 400	0 - 5800
55.1114.500	0 – 500	63	2.1/2"	0 – 500	0 - 7250
55.1114.600	0 - 600	63	2.1/2"	0 - 600	0 - 8700
55.1114.700	0 – 700	63	2.1/2"	0 – 700	0 – 10150

ACCURACY: 1.6% or 2.5% SCALES: in bar and PSI (red color) WORKING PRESSURE: steady: 3/4 scale value fluctuating: 2/3 full scale value short time: full scale value BOURDON TUBE: bronze CONNECTION: brass 1/4"NPT center back with U-Bracket WINDOW: polycarbonate CASE MATERIAL: stainless steel CASE SIZE: 63mm (2.1/2") CASE FILL: glycerin 99,5% WORKING TEMPERATURE: -20°C (-4°F) +60°C (+140°F) **APPLICATIONS:** for measuring points with high dynamic pressure, pulsations or vibrations. Hydraulics and compressors.



As per DIN EN 837 - 1 and ASME B40.100 - 55.2321.

ABS Manometer - Case 53MM (2") - Dry Brass Connection 1/4"NPT Down



	serie	case size		pressure	
REFERENCE	bar	mm	inch	bar	PSI
55.2321.004	0 - 4	53	2"	0 - 4	0 - 60
55.2321.007	0 - 7	53	2"	0 - 7	0 – 100
55.2321.010	0 – 10	53	2"	0 – 10	0 - 145
55.2321.016	0 – 16	53	2"	0 - 16	0 - 230
55.2321.025	0 - 25	53	2"	0 – 25	0 - 360
55.2321.040	0 - 40	53	2"	0 - 40	0 - 580
55.2321.060	0 - 60	53	2"	0 - 60	0 - 870
55.2321.100	0 – 100	53	2"	0 – 100	0 – 1450
55.2321.160	0 – 160	53	2"	0 – 160	0 - 2320
55.2321.250	0 – 250	53	2"	0 – 250	0 - 3625
55.2321.400	0 - 400	53	2"	0 - 400	0 - 5800
55.2321.500	0 - 500	53	2"	0 - 500	0 - 7250

ACCURACY: 1.6% SCALES: in bar and PSI (red color) WORKING PRESSURE: steady: 3/4 scale value BOURDON TUBE: bronze CONNECTION: brass 1/4"NPT down WINDOW: polycarbonate CASE MATERIAL: ABS

CASE SIZE: 53mm (2") CASE FILL: dry WORKING TEMPERATURE: -20°C (-4°F) +60°C (+140°F) **APPLICATIONS:** for measuring points with dynamic pressure, without oscillations, vibrations or pulses. Compressors.

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As per DIN EN 837 - 1 and ASME B40.100 - 55.2322.

ABS Manometer - Case 53MM (2") - Dry

Brass Connection 1/4"NPT Center back with U-Bracket

	serie	case size		pressure	
REFERENCE	bar	mm	inch	bar	PSI
55.2322.004	0 - 4	53	2"	0 - 4	0 - 60
55.2322.007	0 - 7	53	2"	0 - 7	0 - 100
55.2322.010	0 - 10	53	2"	0 – 10	0 - 145
55.2322.016	0 – 16	53	2"	0 – 16	0 - 230
55.2322.025	0 - 25	53	2"	0 - 25	0 - 360
55.2322.040	0 - 40	53	2"	0 - 40	0 - 580
55.2322.060	0 - 60	53	2"	0 - 60	0 - 870
55.2322.100	0 – 100	53	2"	0 – 100	0 - 1450
55.2322.160	0 - 160	53	2"	0 - 160	0 - 2320
55.2322.250	0 – 250	53	2"	0 - 250	0 - 3625
55.2322.400	0 - 400	53	2"	0 - 400	0 – 5800
55.2322.500	0 – 500	53	2"	0 – 500	0 – 7250

ACCURACY: 1.6% SCALES: in bar and PSI (red color) WORKING PRESSURE: steady: 3/4 scale value BOURDON TUBE: bronze CONNECTION: brass 1/4"NPT center back with U-Bracket WINDOW: polycarbonate CASE MATERIAL: ABS CASE SIZE: 53mm (2") CASE FILL: dry WORKING TEMPERATURE: -20°C (-4°F) +60°C (+140°F) **APPLICATIONS:** for measuring points with dynamic pressure, without oscillations, vibrations or pulses. Compressors.

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As per DIN EN 837 - 1 and ASME B40.100 - 55.2323.

ABS Manometer – Case 53MM (2") – Dry Brass Connection 1/4"BSPP Down



	serie	case size		pres	ssure
REFERENCE	bar	mm	inch	bar	PSI
55.2321.007	0 - 7	53	2"	0 - 7	0 - 100
55.2321.010	0 – 10	53	2″	0 – 10	0 - 145
55.2321.016	0 – 16	53	2″	0 – 16	0 – 230
55.2321.025	0 – 25	53	2″	0 – 25	0 - 360
55.2321.040	0 - 40	53	2″	0 - 40	0 - 580
55.2321.060	0 – 60	53	2″	0 – 60	0 – 870
55.2321.100	0 – 100	53	2″	0 – 100	0 - 1450
55.2321.160	0 - 160	53	2"	0 – 160	0 - 2320
55.2321.250	0 – 250	53	2″	0 – 250	0 - 3625
55.2321.400	0 - 400	53	2"	0 - 400	0 – 5800
55.2321.500	0 - 500	53	2"	0 – 500	0 – 7250

ACCURACY: 1.6% SCALES: in bar and PSI (red color) WORKING PRESSURE: steady: 3/4 scale value BOURDON TUBE: bronze CONNECTION: brass 1/4"NPT down WINDOW: polycarbonate CASE MATERIAL: ABS

CASE SIZE: 53mm (2") CASE FILL: dry WORKING TEMPERATURE: -20°C (-4°F) +60°C (+140°F)



Balflex® Bourdon Tube Pressure Gauge



As per DIN EN 837 - 1 and ASME B40.100 - 55.2324.

ABS Manometer - Case 53MM (2") - Dry

Brass Connection 1/4"NPT Center back with U-Bracket

	serie	case size		pres	sure
REFERENCE	bar	mm	inch	bar	PSI
55.2322.007	0 - 7	53	2"	0 - 7	0 - 100
55.2322.010	0 – 10	53	2″	0 – 10	0 - 145
55.2322.016	0 – 16	53	2"	0 – 16	0 - 230
55.2322.025	0 – 25	53	2"	0 – 25	0 - 360
55.2322.040	0 - 40	53	2"	0 - 40	0 - 580
55.2322.060	0 - 60	53	2"	0 - 60	0 - 870
55.2322.100	0 - 100	53	2"	0 – 100	0 - 1450
55.2322.160	0 - 160	53	2"	0 - 160	0 - 2320
55.2322.250	0 – 250	53	2"	0 – 250	0 - 3625
55.2322.400	0 - 400	53	2"	0 - 400	0 – 5800
55.2322.500	0 - 500	53	2"	0 – 500	0 - 7250

ACCURACY: 1.6% SCALES: in bar and PSI (red color) WORKING PRESSURE: steady: 3/4 scale value

BOURDON TUBE: hronze BOURDON TUBE: bronze CONNECTION: brass 1/4"NPT center back with U-Bracket WINDOW: polycarbonate CASE MATERIAL: ABS CASE SIZE: 53mm (2") CASE FILL: dry WORKING TEMPERATURE: -20°C (-4°F) +60°C (+140°F)



As per DIN EN 837 - 1 and ASME B40.100 – 55.2121.

ABS Manometer - Case 63MM (2.1/2") - Dry Brass Connection 1/4"NPT Down



	serie	case size		pres	ssure
REFERENCE	bar	mm	inch	bar	PSI
55.2121.007	0 - 7	63	2.1/2"	0 - 7	0 – 100
55.2121.010	0 – 10	63	2.1/2"	0 – 10	0 - 145
55.2121.016	0 – 16	63	2.1/2"	0 - 16	0 - 230
55.2121.025	0 – 25	63	2.1/2"	0 – 25	0 - 360
55.2121.040	0 - 40	63	2.1/2"	0 - 40	0 - 580
55.2121.060	0 - 60	63	2.1/2"	0 - 60	0 - 870
55.2121.100	0 - 100	63	2.1/2"	0 – 100	0 - 1450
55.2121.160	0 - 160	63	2.1/2"	0 - 160	0 - 2320
55.2121.250	0 - 250	63	2.1/2"	0 - 250	0 - 3625
55.2121.400	0 - 400	63	2.1/2"	0 - 400	0 - 5800
55.2121.500	0 – 500	63	2.1/2"	0 - 500	0 - 7250

ACCURACY: 1.6% or 2.5% SCALES: in bar and PSI (red color) WORKING PRESSURE: steady: 3/4 scale value BOURDON TUBE: bronze CONNECTION: brass 1/4"NPT down WINDOW: polycarbonate CASE MATERIAL: ABS

CASE SIZE: 63mm (2.1/2") **CASE FILL:** dry **WORKING TEMPERATURE:** -20°C (-4°F) +60°C (+140°F)





As per DIN EN 837 - 1 and ASME B40.100 - 55.2122.

ABS Manometer - Case 63MM (2.1/2") - Dry

Brass Connection 1/4"NPT Center back with U-Bracket

	serie	case size		pres	sure
REFERENCE	bar	mm	inch	bar	PSI
55.2122.007	0 - 7	63	2.1/2"	0 - 7	0 - 100
55.2122.010	0 – 10	63	2.1/2"	0 – 10	0 - 145
55.2122.016	0 – 16	63	2.1/2"	0 – 16	0 - 230
55.2122.025	0 - 25	63	2.1/2"	0 - 25	0 - 360
55.2122.040	0 - 40	63	2.1/2"	0 - 40	0 - 580
55.2122.060	0 - 60	63	2.1/2"	0 - 60	0 - 870
55.2122.100	0 - 100	63	2.1/2"	0 - 100	0 - 1450
55.2122.160	0 – 160	63	2.1/2"	0 – 160	0 - 2320
55.2122.250	0 - 250	63	2.1/2"	0 – 250	0 - 3625
55.2122.400	0 - 400	63	2.1/2"	0 - 400	0 - 5800
55.2122.500	0 - 500	63	2.1/2"	0 - 500	0 - 7250

ACCURACY: 1.6% or 2.5% SCALES: in bar and PSI (red color) WORKING PRESSURE: steady: 3/4 scale value

BOURDON TUBE: bronze CONNECTION: brass 1/4"NPT center back with U-Bracket WINDOW: polycarbonate CASE MATERIAL: ABS CASE SIZE: 63mm (2.1/2") CASE FILL: dry WORKING TEMPERATURE: -20°C (-4°F) +60°C (+140°F)



As per DIN EN 837 - 1 and ASME B40.100 – 55.2123.

ABS Manometer - Case 63MM (2.1/2") - Dry Brass Connection 1/4"BSPP Down



	serie	case size		pres	ssure
REFERENCE	bar	mm	inch	bar	PSI
55.2123.007	0 - 7	63	2.1/2"	0 – 7	0 – 100
55.2123.010	0 – 10	63	2.1/2"	0 – 10	0 - 145
55.2123.016	0 – 16	63	2.1/2"	0 - 16	0 - 230
55.2123.025	0 – 25	63	2.1/2"	0 – 25	0 - 360
55.2123.040	0 - 40	63	2.1/2"	0 - 40	0 - 580
55.2123.060	0 - 60	63	2.1/2"	0 - 60	0 - 870
55.2123.100	0 - 100	63	2.1/2"	0 – 100	0 - 1450
55.2123.160	0 – 160	63	2.1/2"	0 – 160	0 - 2320
55.2123.250	0 - 250	63	2.1/2"	0 - 250	0 - 3625
55.2123.400	0 - 400	63	2.1/2"	0 - 400	0 - 5800
55.2123.500	0 – 500	63	2.1/2"	0 – 500	0 – 7250

ACCURACY: 1.6% or 2.5% SCALES: in bar and PSI (red color) WORKING PRESSURE: steady: 3/4 scale value BOURDON TUBE: bronze CONNECTION: brass 1/4"BSPP down WINDOW: polycarbonate CASE MATERIAL: ABS

CASE SIZE: 63mm (2.1/2") **CASE FILL:** dry **WORKING TEMPERATURE:** -20°C (-4°F) +60°C (+140°F)





As per DIN EN 837 - 1 and ASME B40.100 - 55.2124.

ABS Manometer – Case 63MM (2.1/2") – Dry

Brass Connection 1/4"BSPP Center back with U-Bracket

	serie	case size		pres	sure
REFERENCE	bar	mm	inch	bar	PSI
55.2124.007	0 - 7	63	2.1/2"	0 - 7	0 - 100
55.2124.010	0 – 10	63	2.1/2"	0 – 10	0 - 145
55.2124.016	0 – 16	63	2.1/2"	0 – 16	0 - 230
55.2124.025	0 - 25	63	2.1/2"	0 - 25	0 - 360
55.2124.040	0 - 40	63	2.1/2"	0 - 40	0 - 580
55.2124.060	0 - 60	63	2.1/2"	0 - 60	0 - 870
55.2124.100	0 - 100	63	2.1/2"	0 - 100	0 - 1450
55.2124.160	0 - 160	63	2.1/2"	0 - 160	0 - 2320
55.2124.250	0 – 250	63	2.1/2"	0 – 250	0 - 3625
55.2124.400	0 - 400	63	2.1/2"	0 - 400	0 - 5800
55.2124.500	0 - 500	63	2.1/2"	0 - 500	0 - 7250

ACCURACY: 1.6% or 2.5% SCALES: in bar and PSI (red color) WORKING PRESSURE: steady: 3/4 scale value

BOURDON TUBE: bronze CONNECTION: brass 1/4"BSPP center back with U-Bracket WINDOW: polycarbonate CASE MATERIAL: ABS CASE SIZE: 63mm (2.1/2") CASE FILL: dry WORKING TEMPERATURE: -20°C (-4°F) +60°C (+140°F) **APPLICATIONS:** for measuring points with dynamic pressure, without oscillations, vibrations or pulses.

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As per DIN EN 837 - 1 and ASME B40.100 - 55.3121.

Steel Black Painted Manometer – Case 63MM (2.1/2") – Dry Brass Connection 1/4"NPT Down



	serie	case	e size	pres	ssure
REFERENCE	bar	mm	inch	bar	PSI
55.3121.007	0 - 7	63	2.1/2"	0 - 7	0 - 100
55.3121.010	0 – 10	63	2.1/2"	0 - 10	0 - 145
55.3121016	0 – 16	63	2.1/2"	0 - 16	0 - 230
55.3121.025	0 – 25	63	2.1/2"	0 – 25	0 - 360
55.3121.040	0 - 40	63	2.1/2"	0 - 40	0 - 580
55.3121.060	0 - 60	63	2.1/2"	0 - 60	0 - 870
55.3121.100	0 – 100	63	2.1/2"	0 – 100	0 – 1450
55.3121.160	0 – 160	63	2.1/2"	0 - 160	0 - 2320
55.3121.250	0 - 250	63	2.1/2"	0 - 250	0 - 3625
55.3121.400	0 - 400	63	2.1/2"	0 - 400	0 - 5800
55.3121500	0 - 500	63	2.1/2"	0 - 500	0 - 7250

ACCURACY: 1.6% SCALES: in bar and PSI (red color) WORKING PRESSURE: steady: 3/4 scale value BOURDON TUBE: bronze CONNECTION: brass 1/4"NPT down WINDOW: polycarbonate CASE MATERIAL: steel black painted

CASE SIZE: 63mm (2.1/2") CASE FILL: dry WORKING TEMPERATURE: -20°C (-4°F) +60°C (+140°F)



Balflex® Bourdon Tube Pressure Gauge



As per DIN EN 837 - 1 and ASME B40.100 - 55.3122.

Steel Black Painted Manometer - Case 63MM (2.1/2") - Dry Brass Connection 1/4"NPT Center back with U-Bracket

	serie	case size		pres	sure
REFERENCE	bar	mm	inch	bar	PSI
55.3122.007	0 – 7	63	2.1/2"	0 - 7	0 – 100
55.3122.010	0 – 10	63	2.1/2"	0 – 10	0 - 145
55.3122.016	0 – 16	63	2.1/2"	0 – 16	0 - 230
55.3122.025	0 – 25	63	2.1/2"	0 – 25	0 - 360
55.3122.040	0 - 40	63	2.1/2"	0 - 40	0 - 580
55.3122.060	0 - 60	63	2.1/2"	0 - 60	0 - 870
55.3122.100	0 – 100	63	2.1/2"	0 – 100	0 - 1450
55.3122.160	0 - 160	63	2.1/2"	0 - 160	0 - 2320
55.3122.250	0 – 250	63	2.1/2"	0 – 250	0 - 3625
55.3122.400	0 - 400	63	2.1/2"	0 - 400	0 – 5800
55.3122.500	0 - 500	63	2.1/2"	0 - 500	0 – 7250

ACCURACY: 1.6% SCALES: in bar and PSI (red color) WORKING PRESSURE: steady: 3/4 scale value

BOURDON TUBE: hronze BOURDON TUBE: bronze CONNECTION: brass 1/4"NPT center back with U-Bracket WINDOW: polycarbonate CASE MATERIAL: steel black painted CASE SIZE: 63mm (2,1/2") CASE FILL: dry WORKING TEMPERATURE: -20°C (-4°F) +60°C (+140°F)



As per DIN EN 837 - 1 and ASME B40.100 – 55.3123.

Steel Black Painted Manometer – Case 63MM (2.1/2") – Dry Brass Connection 1/4"BSPP Down



	serie	case	e size	pres	ssure
REFERENCE	bar	mm	inch	bar	PSI
55.3123.007	0 - 7	63	2.1/2"	0 - 7	0 - 100
55.3123.010	0 – 10	63	2.1/2"	0 – 10	0 – 145
55.3123.016	0 – 16	63	2.1/2"	0 - 16	0 - 230
55.3123.025	0 – 25	63	2.1/2"	0 – 25	0 – 360
55.3123.040	0 - 40	63	2.1/2"	0 - 40	0 - 580
55.3123.060	0 – 60	63	2.1/2"	0 - 60	0 - 870
55.3123.100	0 – 100	63	2.1/2"	0 – 100	0 - 1450
55.3123.160	0 - 160	63	2.1/2"	0 – 160	0 - 2320
55.3123.250	0 - 250	63	2.1/2"	0 - 250	0 - 3625
55.3123.400	0 - 400	63	2.1/2"	0 - 400	0 - 5800
55.3123.500	0 – 500	63	2.1/2"	0 – 500	0 – 7250

ACCURACY: 1.6% SCALES: in bar and PSI (red color) WORKING PRESSURE: steady: 3/4 scale value BOURDON TUBE: bronze CONNECTION: brass 1/4"BSPP down WINDOW: polycarbonate CASE MATERIAL: steel black painted

CASE SIZE: 63mm (2.1/2") CASE FILL: dry WORKING TEMPERATURE: -20°C (-4°F) +60°C (+140°F)



Balflex® Bourdon Tube Pressure Gauge



As per DIN EN 837 - 1 and ASME B40.100 - 55.3124.

Steel Black Painted Manometer - Case 63MM (2.1/2") - Dry Brass Connection 1/4"BSPP Center back with U-Bracket

	serie	case size		press	sure
REFERENCE	bar	mm	inch	bar	PSI
55.3124.007	0 – 7	63	2.1/2"	0 – 7	0 – 100
55.3124.010	0 – 10	63	2.1/2"	0 - 10	0 - 145
55.3124.016	0 – 16	63	2.1/2"	0 – 16	0 - 230
55.3124.025	0 – 25	63	2.1/2"	0 - 25	0 - 360
55.3124.040	0 - 40	63	2.1/2"	0 - 40	0 - 580
55.3124.060	0 - 60	63	2.1/2"	0 - 60	0 - 870
55.3124.100	0 – 100	63	2.1/2"	0 - 100	0 - 1450
55.3124.160	0 - 160	63	2.1/2"	0 – 160	0 - 2320
55.3124.250	0 – 250	63	2.1/2"	0 – 250	0 - 3625
55.3124.400	0 - 400	63	2.1/2"	0 - 400	0 – 5800
55.3124.500	0 - 500	63	2.1/2"	0 - 500	0 - 7250

ACCURACY: 1.6% SCALES: in bar and PSI (red color) WORKING PRESSURE: steady: 3/4 scale value

BOURDON TUBE: hronze BOURDON TUBE: bronze CONNECTION: brass 1/4"BSPP center back with U-Bracket WINDOW: polycarbonate CASE MATERIAL: steel black painted CASE SIZE: 63mm (2,1/2") CASE FILL: dry WORKING TEMPERATURE: -20°C (-4°F) +60°C (+140°F)



Balflex® Bourdon Tube Pressure Gauge



Stainless Steel Manometer - Case 100MM (4") - Glycerin Filled Brass Connection 1/2"NPT Down

	serie	case	e size	pressure	
REFERENCE	bar	mm	inch	bar	PSI
55.1415.007	0 - 7	100	4"	0 - 7	0 – 100
55.1415.010	0 – 10	100	4"	0 – 10	0 – 145
55.1415.016	0 – 16	100	4"	0 - 16	0 - 230
55.1415.025	0 – 25	100	4"	0 – 25	0 - 360
55.1415.040	0 - 40	100	4"	0 - 40	0 - 580
55.1415.060	0 - 60	100	4"	0 - 60	0 - 870
55.1415.100	0 – 100	100	4"	0 – 100	0 - 1450
55.1415.160	0 - 160	100	4"	0 – 160	0 - 2320
55.1415.250	0 - 250	100	4"	0 - 250	0 - 3625
55.1415.300	0 - 300	100	4"	0 - 300	0 - 4350
55.1415.400	0 - 400	100	4"	0 - 400	0 - 5800
55.1415.500	0 - 500	100	4"	0 - 500	0 - 7250
55.1415.600	0 - 600	100	4"	0 - 600	0 - 8700
55.1415.700	0 - 700	100	4"	0 - 700	0 - 10150

ACCURACY: 1.6% SCALES: in bar and PSI (red color) WORKING PRESSURE: steady: 3/4 scale value; fluctuating: 2/3 full scale value; short time: full scale value

BOURDON TUBE: bronze CONNECTION: brass 1/2[°]NPT down WINDOW: polycarbonate CASE MATERIAL: stainless steel

CASE SIZE: 100mm (4") CASE FILL: glycerin 99,5 % WORKING TEMPERATURE: -20°C (-4°F) +60°C (+140°F)

APPLICATIONS: for measuring points with high dynamic pressure, pulsations or vibrations. Hydraulics and compressors.

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As per DIN EN 837 - 1 and ASME B40.100 - 55.1416.

Stainless Steel Manometer - Case 100MM (4") - Glycerin Filled Brass Connection 1/2"NPT Center back with U-Bracket

	serie	case	size	pres	sure
REFERENCE	bar	mm	inch	bar	PSI
55.1416.007	0 - 7	100	4"	0 - 7	0 - 100
55.1416.010	0 – 10	100	4"	0 – 10	0 - 145
55.1416.016	0 – 16	100	4"	0 – 16	0 - 230
55.1416.025	0 - 25	100	4"	0 - 25	0 - 360
55.1416.040	0 - 40	100	4"	0 - 40	0 - 580
55.1416.060	0 - 60	100	4"	0 - 60	0 - 870
55.1416.100	0 – 100	100	4"	0 – 100	0 - 1450
55.1416.160	0 – 160	100	4"	0 – 160	0 - 2320
55.1416.250	0 - 250	100	4"	0 – 250	0 - 3625
55.1416.300	0 - 300	100	4"	0 - 300	0 - 4350
55.1416.400	0 - 400	100	4"	0 - 400	0 - 5800
55.1416.500	0 - 500	100	4"	0 - 500	0 - 7250
55.1416.600	0 - 600	100	4"	0 - 600	0 – 8700
55.1416.700	0 - 700	100	4"	0 - 700	0 - 10150

ACCURACY: 1.6% SCALES: in bar and PSI (red color) WORKING PRESSURE: steady: 3/4 scale value; fluctuating: 2/3 full scale value; short time: full scale value

BOURDON TUBE: bronze CONNECTION: brass 1/2"NPT center back with U-Bracket WINDOW: polycarbonate CASE MATERIAL: stainless steel

CASE SIZE: 100mm (4") CASE FILL: glycerin 99,5 % WORKING TEMPERATURE: -20°C (-4*F) +60°C (+140°F)

APPLICATIONS: for measuring points with high dynamic pressure, pulsations or vibrations. Hydraulics and compressors.



Balflex® Bourdon Tube Pressure Gauge



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Stainless Steel Manometer – Case 100MM (4") – Glycerin Filled Brass Connection 1/2"BSPP Down								
	serie	case size		pressure				
REFERENCE	bar	mm	inch	bar	PSI			
55.1417.007	0 - 7	100	4"	0 - 7	0 – 100			
55.1417.010	0 – 10	100	4"	0 – 10	0 - 145			
55.1417.016	0 - 16	100	4"	0 – 16	0 - 230			
55.1417.025	0 – 25	100	4"	0 – 25	0 - 360			
55.1417.040	0 - 40	100	4"	0 - 40	0 - 580			
55.1417.060	0 - 60	100	4"	0 - 60	0 - 870			
55.1417.100	0 – 100	100	4"	0 – 100	0 - 1450			
55.1417.160	0 – 160	100	4"	0 – 160	0 - 2320			
55.1417.250	0 – 250	100	4"	0 – 250	0 - 3625			
55.1417.300	0 - 300	100	4"	0 - 300	0 - 4350			
55.1417.400	0 - 400	100	4"	0 - 400	0 - 5800			
55.1417.500	0 – 500	100	4"	0 – 500	0 - 7250			
55.1417.600	0 - 600	100	4"	0 - 600	0 – 8700			
55.1417.700	0 - 700	100	4"	0 - 700	0 – 10150			

ACCURACY: 1.6% SCALES: in bar and PSI (red color) WORKING PRESSURE: steady: 3/4 scale value; fluctuating: 2/3 full scale value; short time: full scale value

BOURDON TUBE: bronze CONNECTION: brass 1/2"BSPP down WINDOW: polycarbonate CASE MATERIAL: stainless steel

CASE SIZE: 100mm (4") CASE FILL: glycerin 99,5 % WORKING TEMPERATURE: -20°C (-4*F) +60°C (+140°F)

APPLICATIONS: for measuring points with high dynamic pressure, pulsations or vibrations. Hydraulics and compressors.

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As per DIN EN 837 - 1 and ASME B40.100 - 55.1418.

Stainless Steel Manometer - Case 100MM (4") - Glycerin Filled Brass Connection 1/2"BSPP Center back with U-Bracket

	serie	case size		pressure	
REFERENCE	bar	mm	inch	bar	PSI
55.1418.007	0 - 7	100	4"	0 - 7	0 – 100
55.1418.010	0 – 10	100	4"	0 – 10	0 - 145
55.1418.016	0 – 16	100	4"	0 – 16	0 - 230
55.1418.025	0 - 25	100	4"	0 - 25	0 - 360
55.1418.040	0 - 40	100	4"	0 - 40	0 - 580
55.1418.060	0 - 60	100	4"	0 - 60	0 - 870
55.1418.100	0 - 100	100	4"	0 – 100	0 - 1450
55.1418.160	0 – 160	100	4"	0 – 160	0 - 2320
55.1418.250	0 - 250	100	4"	0 – 250	0 - 3625
55.1418.300	0 - 300	100	4"	0 - 300	0 - 4350
55.1418.400	0 - 400	100	4"	0 - 400	0 - 5800
55.1418.500	0 - 500	100	4"	0 - 500	0 - 7250
55.1418.600	0 - 600	100	4"	0 - 600	0 – 8700
55.1418.700	0 – 700	100	4"	0 – 700	0 - 10150

ACCURACY: 1.6% SCALES: in bar and PSI (red color) WORKING PRESSURE: steady: 3/4 scale value; fluctuating: 2/3 full scale value; short time: full scale value

BOURDON TUBE: bronze CONNECTION: brass 1/2"BSPP center back with U-Bracket WINDOW: polycarbonate CASE MATERIAL: stainless steel

CASE SIZE: 100mm (4") CASE FILL: glycerin 99,5 % WORKING TEMPERATURE: -20°C (-4*F) +60°C (+140°F)

APPLICATIONS: for measuring points with high dynamic pressure, pulsations or vibrations. Hydraulics and compressors.

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