

PARTICULAR MATERIAL APPRAISAL(PMA)

PMA Ref. N° WPS/PMA/001

Pressure Equipment Manufacturer:	M/s. WIKA Process Solutions India Pvt.Ltd.
Material specification (name, grade)	ASTM A105/SA105
Delivery Condition	Normalized
Thickness	As per GAD
Pressure Equipment	Primary Flow components forged and machined components, Instrumentation Valves and Valve manifolds.
Construction Code Or Standard	ASME SEC-I,VIII-1, B31.1,B31.3, B16.36,B16.5
PED Category	I,II, III
Fluid Type	Group 1 & 2
Max. allowable temperature	593°C
Min. allowable temperature	- 29°C

Compliance with Essential Safety requirements for materials as per - Annex I part 4 and 7

Sr No	Property	Requirement	Compliance
1	Appropriate Properties_Strength (Annexure I-4.1(a))	Proof Strength/Yield Strength/UTS	Compliance_Yes As per ASME SA 105
2	Sufficiently Ductile Annexure I_4.1(a) Annexure I_7.5	In Steel :14%	Compliance_Yes As per ASME SA 105
3	Sufficiently Tough Annexure I_4.1(a) Annexure I_7.5	In Steel 27 J at 20°C or at Lowest Operating Temperature	Compliance_Yes Exempted as per A-105 is listed material in Table 1A-M of ASME B31.3 with design minimum temperature of -29 Deg. C. So, for this material, Impact test is not required.
4	Not Significantly affected by Ageing (Annexure I_4.1(c))	Appropriate selection, suitable composition	Compliance_Yes Common steel used, Noexpected ageing for defined end product temperatures and during manufacturing
5	Chemical compatibility between fluids and materials (Annex 1_ 4.1 (b))	Sufficiently chemically resistant to the fluid contained, considering the scheduled lifetime of the equipment.	Compliance_Yes Specifications on materials and fluids compatibility are defined by good engineering practices applied by Manufacturer.
6	Non-susceptible to give undesirable effects when put together with other materials (Annex 1_4.1 (e))	Different materials joined together needs to have electrochemical compatibility	Putting together different materials is avoided. Manufacturer applies the recommendations of the Appendix F of the ASME B31.3
7	Suitable for intended processing (Annex 1_4.1 (d))	e.g Welding , Forming etc	Compliance_Yes Suitable for Machining/Welding
8	Type of material Certificate (Annex 1_4.3)	Cat I - Certificate affirming compliance with the specification. Cat II, III - Certificate of Specific Product Control.	Compliance_Yes Certificate EN1024 3.1 or 3.2
9	Material Manufacturer Approval (Annex 1_4.3)	Supplier Evaluation	Compliance_Yes Evaluation Record

Manufacturer : Wika Process Solutions India Pvt Ltd.

Signed
Date:-25.07.2025



Notified Body : Ente Certificazione Macchine Srl
(Notified Body Id No:-1282)

Signed
Date:- 08-August-2025

ENTE CERTIFICAZIONE MACCHINE SRL
Via Ca' Bella n. 243/A - Loc. Castello di Serravalle
40057 VALSAMOGGIA (BO)
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C.F./P.I.A 02604150395 - R.E.A. n° BO-511912

	WIKI PROCESS SOLUTIONS INDIA PVT LTD H.B. NO. 40, REVENUE ESTATE, VILLAGE-DUDHOLA, DISTRICT PALWAL - 121102, (HARYANA) INDIA Tel. :+91-1275-336000, FAX: +91-1275-336099	DOC. NO.WPS/PMA/01 Rev. 02 Dated 24/07/2025
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PARTICULAR MATERIAL APPRAISAL(PMA)

PMA Ref. N° WPS/PMA/002

Pressure Equipment Manufacturer:	M/s. WIKI Process Solutions India Pvt.Ltd.
Material specification (name, grade)	ASTM A106 Gr.B/SA 106 GR.B
Delivery Condition	Hot Finished Or Normalized as per ASTM A106
Thickness	As per GAD
Pressure Equipment	Primary Flow components forged and machined components, Instrumentation Valves and Valve manifolds.
Construction Code Or Standard	ASME SEC-I,VIII-1, B31.1,B31.3, B16.36,B16.5
PED Category	I,II, III
Fluid Type	Group 1 & 2
Max. allowable temperature	593°C
Min. allowable temperature	- 29°C

Compliance with Essential Safety requirements for materials

Sr No	Property	Requirement	Compliance
1	Appropriate Properties_Strength (Annexure I-4.1(a))	Proof Strength/Yield Strength/UTS	Compliance_Yes As per ASME SA 106 Gr.B
2	Sufficiently Ductile Annexure I_4.1(a) Annexure I_7.5	In Steel :14%	Compliance_Yes As per ASME SA 106 Gr.B
3	Sufficiently Tough Annexure I_4.1(a) Annexure I_7.5	In Steel 27 J at 20°C or at Lowest Operating Temperature	Compliance_Yes Exempted as per A-106 Gr B is listed material in Table 1A-M with curve B designation instead of design minimum temp. So, For Curve B as per Figure 323.2.2(A), i) impact test is not required if MDMT is 0 Deg C for thickness up to 25 mm ii) Impact is not required if MDMT is -29 Deg C for thickness ≤ 12.7 mm.
4	Not Significantly affected by Ageing (Annexure I _ 4.1(c))	Appropriate selection, suitable composition	Compliance_Yes Common steel used, Noexpected ageing for defined end product temperatures and during manufacturing
5	Chemical compatibility between fluids and materials (Annex 1 _ 4.1 (b))	Sufficiently chemically resistant to the fluid contained, considering the scheduled lifetime of the equipment.	Compliance_Yes Specifications on materials and fluids compatibility are defined by good engineering practices applied by Manufacturer.
6	Non-susceptible to give undesirable effects when put together with other materials (Annex 1 _ 4.1 (e))	Different materials joined together needs to have electrochemical compatibility	Putting together different materials is avoided. Manufacturer applies the recommendations of the Appendix F of the ASME B31.3
7	Suitable for intended processing (Annex 1 _ 4.1 (d))	e.g Welding , Forming etc	Compliance_Yes Suitable for Machining/Welding
8	Type of material Certificate (Annex 1 _ 4.3)	Cat I - Certificate affirming compliance with the specification. Cat II, III - Certificate of Specific Product Control.	Compliance_Yes Certificate EN1024 3.1 or 3.2
9	Material Manufacturer Approval (Annex 1 _ 4.3)	Supplier Evaluation	Compliance_Yes Evaluation Record

Manufacturer : Wika Process Solutions India Pvt Ltd.

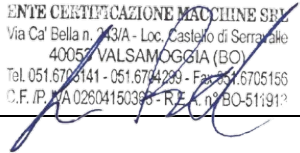
Signed
Date:-25.07.2025



Notified Body : Ente Certificazione Macchine Srl

(Notified Body Id No:-1282) **ENTE CERTIFICAZIONE MACCHINE SRL**
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C.F. /P. IVA 02804150395 - R.E.A. n° BO-511913

Signed
Date:- 08-August-2025



	WIKI PROCESS SOLUTIONS INDIA PVT LTD H.B. NO. 40, REVENUE ESTATE, VILLAGE-DUDHOLA, DISTRICT PALWAL - 121102, (HARYANA) INDIA Tel. : +91-1275-336000, FAX: +91-1275-336099	DOC. NO.WPS/PMA/01 Rev. 02 Dated 24/07/2025
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PARTICULAR MATERIAL APPRAISAL(PMA)

PMA Ref. N°	WPS/PMA/003
Pressure Equipment Manufacturer:	M/s. WIKI Process Solutions India Pvt.Ltd.
Material specification (name, grade)	ASTM A516 GR.70/SA 516 GR.70
Delivery Condition	Normalized
Thickness	As per GAD
Pressure Equipment	Primary Flow components forged and machined components, Instrumentation Valves and Valve manifolds.
Construction Code Or Standard	ASME SEC-I,VIII-1, B31.1,B31.3, B16.36,B16.5
PED Category	I,II, III
Fluid Type	Group 1 & 2
Max. allowable temperature	454°C
Min. allowable temperature	- 29°C

Compliance with Essential Safety requirements for materials

Sr No	Property	Requirement	Compliance
1	Appropriate Properties_Strength (Annexure I-4.1(a))	Proof Strength/Yield Strength/UTS	Compliance_Yes As per ASME SA 516 GR.70
2	Sufficiently Ductile Annexure I_4.1(a) Annexure I_7.5	In Steel :14%	Compliance_Yes As per ASME SA 516 GR.70
3	Sufficiently Tough Annexure I_4.1(a) Annexure I_7.5	In Steel 27 J at 20°C or at Lowest Operating Temperature	Compliance_Yes Exempted as per A-516 Gr 70 is listed material in Table 1A-M with curve B designation instead of design minimum temp. So, For Curve B as per Figure 323.2.2(A) i) impact test is not required if MDMT is 0 Deg C for thickness up to 25 mm ii) Impact is not required if MDMT is -29 Deg C for thickness ≤ 12.7 mm.
4	Not Significantly affected by Ageing (Annexure I_4.1(c))	Appropriate selection, suitable composition	Compliance_Yes Common steel used, Noexpected ageing for defined end product temperatures and during manufacturing
5	Chemical compatibility between fluids and materials (Annex 1_4.1 (b))	Sufficiently chemically resistant to the fluid contained, considering the scheduled lifetime of the equipment.	Compliance_Yes Specifications on materials and fluids compatibility are defined by good engineering practices applied by Manufacturer.
6	Non-susceptible to give undesirable effects when put together with other materials (Annex 1_4.1 (e))	Different materials joined together needs to have electrochemical compatibility	Putting together different materials is avoided. Manufacturer applies the recommendations of the Appendix F of the ASME B31.3
7	Suitable for intended processing (Annex 1_4.1 (d))	e.g Welding , Forming etc	Compliance_Yes Suitable for Machining/Welding
8	Type of material Certificate (Annex 1_4.3)	Cat I - Certificate affirming compliance with the specification. Cat II, III - Certificate of Specific Product Control.	Compliance_Yes Certificate EN1024 3.1 or 3.2
9	Material Manufacturer Approval (Annex 1_4.3)	Supplier Evaluation	Compliance_Yes Evaluation Record

Manufacturer : Wika Process Solutions India Pvt Ltd.

Signed
Date:-25.07.2025



Notified Body : Ente Certificazione Macchine Srl

(Notified Body Id No:-1282)

Signed
Date:- 08-August-2025

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PARTICULAR MATERIAL APPRAISAL(PMA)

PMA Ref. N°	WPS/PMA/004
Pressure Equipment Manufacturer:	M/s. WIKA Process Solutions India Pvt.Ltd.
Material specification (name, grade)	A350 Gr.LF2 Cl.1/ SA 350 Gr.LF2 Cl.1
Delivery Condition	Normalized as per ASTM A350/SA 350
Thickness	As per GAD
Pressure Equipment	Primary Flow components forged and machined components, Instrumentation Valves and Valve manifolds.
Construction Code Or Standard	ASME SEC-I,VIII-1, B31.1,B31.3, B16.36,B16.5
PED Category	I,II, III
Fluid Type	Group 1 & 2
Max. allowable temperature	538°C
Min. allowable temperature	-46 °C

Compliance with Essential Safety requirements for materials

Sr No	Property	Requirement	Compliance
1	Appropriate Properties_Strength (Annexure I-4.1(a))	Proof Strength/Yield Strength/UTS	Compliance_Yes As per ASME SA 350 LF2
2	Sufficiently Ductile Annexure I_4.1(a) Annexure I_7.5	In Steel :14%	Compliance_Yes As per ASME SA 350 LF2
3	Sufficiently Tough Annexure I_4.1(a) Annexure I_7.5	In Steel 27 J at 20°C or at Lowest Operating Temperature	Compliance_Yes AS per ASME SA 350 LF2 CL-1 All material to be impact tested with a result of test energy of no less than 27J at minimum design temperature not greater than -46°C.
4	Not Significantly affected by Ageing (Annexure I _ 4.1(c))	Appropriate selection, suitable composition	Compliance_Yes Common steel used, Noexpected ageing for defined end product temperatures and during manufacturing
5	Chemical compatibility between fluids and materials (Annex 1 _ 4.1 (b))	Sufficiently chemically resistant to the fluid contained, considering the scheduled lifetime of the equipment.	Compliance_Yes Specifications on materials and fluids compatibility are defined by good engineering practices applied by Manufacturer.
6	Non-susceptible to give undesirable effects when put together with other materials (Annex 1 _ 4.1 (e))	Different materials joined together needs to have electrochemical compatibility	Putting together different materials is avoided. Manufacturer applies the recommendations of the Appendix F of the ASME B31.3
7	Suitable for intended processing (Annex 1 _ 4.1 (d))	e.g Welding , Forming etc	Compliance_Yes Suitable for Machining/Welding
8	Type of material Certificate (Annex 1 _ 4.3)	Cat I - Certificate affirming compliance with the specification. Cat II, III - Certificate of Specific Product Control.	Compliance_Yes Certificate EN1024 3.1 or 3.2
9	Material Manufacturer Approval (Annex 1 _ 4.3)	Supplier Evaluation	Compliance_Yes Evaluation Record

Manufacturer : Wika Process Solutions India Pvt Ltd.  Signed Date:-25.07.2025	Notified Body : Ente Certificazione Macchine Srl (Notified Body Id No:-1282)  Signed Date:- 21-August-2025
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	WIKA PROCESS SOLUTIONS INDIA PVT LTD H.B. NO. 40, REVENUE ESTATE, VILLAGE-DUDHOLA, DISTRICT PALWAL - 121102, (HARYANA) INDIA Tel. :+91-1275-336000, FAX: +91-1275-336099	DOC. NO.WPS/PMIA01 Rev. 02 Dated 24/07/2025
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PARTICULAR MATERIAL APPRAISAL(PMA)

PMA Ref. N°	WPS/PMIA/005
Pressure Equipment Manufacturer:	M/s. WIKA Process Solutions India Pvt.Ltd.
Material specification (name, grade)	A182 Gr.F11 Cl1 & Cl2/SA 182 Gr.F11 Cl1& Cl2
Delivery Condition	Annealed Or Normalized & Tempered as per ASTM A182/SA 182
Thickness	As per GAD
Pressure Equipment	Primary Flow components forged and machined components, Instrumentation Valves and Valve manifolds.
Construction Code Or Standard	ASME SEC-I,VIII-1, B31.1,B31.3, B16.36,B16.5
PED Category	I,II, III
Fluid Type	Group 1 & 2
Max. allowable temperature	649°C
Min. allowable temperature	-29 °C

Compliance with Essential Safety requirements for materials

Sr No	Property	Requirement	Compliance
1	Appropriate Properties_Strength (Annexure I-4.1(a))	Proof Strength/Yield Strength/UTS	Compliance_Yes As per ASME SA 182 F11 Cl1 & Cl2
2	Sufficiently Ductile Annexure I_4.1(a) Annexure I_7.5	In Steel :14%	Compliance_Yes As per ASME SA 182 F11 Cl1 & Cl2
3	Sufficiently Tough Annexure I_4.1(a) Annexure I_7.5	In Steel 27 J at 20°C or at Lowest Operating Temperature	Compliance_Yes Exempted as per A-182 F11 Cl1 & Cl2 are listed material in Table 1A-M of ASME B31.3 with design minimum temperature of -29 Deg. C. So, for this material, Impact test is not required.
4	Not Significantly affected by Ageing (Annexure I _ 4.1(c))	Appropriate selection, suitable composition	Compliance_Yes Common steel used, Noexpected ageing for defined end product temperatures and during manufacturing
5	Chemical compatibility between fluids and materials (Annex 1 _ 4.1 (b))	Sufficiently chemically resistant to the fluid contained, considering the scheduled lifetime of the equipment.	Compliance_Yes Specifications on materials and fluids compatibility are defined by good engineering practices applied by Manufacturer.
6	Non-susceptible to give undesirable effects when put together with other materials (Annex 1 _ 4.1 (e))	Different materials joined together needs to have electrochemical compatibility	Putting together different materials is avoided. Manufacturer applies the recommendations of the Appendix F of the ASME B31.3
7	Suitable for intended processing (Annex 1 _ 4.1 (d))	e.g Welding , Forming etc	Compliance_Yes Suitable for Machining/Welding
8	Type of material Certificate (Annex 1 _ 4.3)	Cat I - Certificate affirming compliance with the specification. Cat II, III - Certificate of Specific Product Control.	Compliance_Yes Certificate EN1024 3.1 or 3.2
9	Material Manufacturer Approval (Annex 1 _ 4.3)	Supplier Evaluation	Compliance_Yes Evaluation Record

Manufacturer : Wika Process Solutions India Pvt Ltd.  Signed Date:-25.07.2025	Notified Body : Ente Certificazione Macchine Srl (Notified Body Id No:-1282) ENTE CERTIFICAZIONE MACCHINE SRL Via Ca' Bella n. 23/A - Loc. Castello di Serravalle 40057 VALSAMOGGIA (BO) Tel.051.6705141 - 051.6704289 - Fax:051.6705156 C.F./P. IVA 02604150395 - R.E.A. n° BO-511912 Signed Date:- 08-August-2025
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PARTICULAR MATERIAL APPRAISAL(PMA)

PMA Ref. N°	WPS/PMA/006	M/s. WIKA Process Solutions India Pvt.Ltd.
Pressure Equipment Manufacturer:		
Material specification (name, grade)		A387 Gr.11 /SA 387 Gr.11
Delivery Condition		Annealed Or Normalized & Tempered as per ASTM A387/SA 387
Thickness		As per GAD
Pressure Equipment		Primary Flow components forged and machined components, Instrumentation Valves and Valve manifolds.
Construction Code Or Standard		ASME SEC-I,VIII-1, B31.1,B31.3, B16.36,B16.5
PED Category		I,II, III
Fluid Type		Group 1 & 2
Max. allowable temperature		649°C
Min. allowable temperature		-29 °C

Compliance with Essential Safety requirements for materials

Sr No	Property	Requirement	Compliance
1	Appropriate Properties_Strength (Annexure I-4.1(a))	Proof Strength/Yield Strength/UTS	Compliance_Yes As per A387 Gr.11 /SA 387 Gr.11
2	Sufficiently Ductile Annexure I_4.1(a) Annexure I_7.5	In Steel :14%	Compliance_Yes As per A387 Gr.11 /SA 387 Gr.11
3	Sufficiently Tough Annexure I_4.1(a) Annexure I_7.5	In Steel 27 J at 20°C or at Lowest Operating Temperature	Compliance_Yes Exempted as per A387 Gr.11 is listed material in Table 1A-M of ASME B31.3 with design minimum temperature of -29 Deg. C. So, for this material, Impact test is not required.
4	Not Significantly affected by Ageing (Annexure I _ 4.1(c))	Appropriate selection, suitable composition	Compliance_Yes Common steel used, Noexpected ageing for defined end product temperatures and during manufacturing
5	Chemical compatibility between fluids and materials (Annex 1 _ 4.1 (b))	Sufficiently chemically resistant to the fluid contained, considering the scheduled lifetime of the equipment.	Compliance_Yes Specifications on materials and fluids compatibility are defined by good engineering practices applied by Manufacturer.
6	Non-susceptible to give undesirable effects when put together with other materials (Annex 1 _ 4.1 (e))	Different materials joined together needs to have electrochemical compatibility	Putting together different materials is avoided. Manufacturer applies the recommendations of the Appendix F of the ASME B31.3
7	Suitable for intended processing (Annex 1 _ 4.1 (d))	e.g Welding , Forming etc	Compliance_Yes Suitable for Machining/Welding
8	Type of material Certificate (Annex 1 _ 4.3)	Cat I - Certificate affirming compliance with the specification. Cat II, III - Certificate of Specific Product Control.	Compliance_Yes Certificate EN1024 3.1 or 3.2
9	Material Manufacturer Approval (Annex 1 _ 4.3)	Supplier Evaluation	Compliance_Yes Evaluation Record

Manufacturer : Wika Process Solutions India Pvt Ltd.  Signed Date:-25.07.2025	Notified Body : Ente Certificazione Macchine Srl (Notified Body Id No:-1282) ENTE CERTIFICAZIONE MACCHINE SRL Via Ca' Bella n. 43/A - Loc. Castello di Serravalle 40051 VALSAMOGGIA (BO) Tel. 051.6705141 - 051.6704289 - Fax 051.6705156 C.F./P.I.A 02504150393 - R.E.A. n° BO-511917 Signed Date:- 08-August-2025
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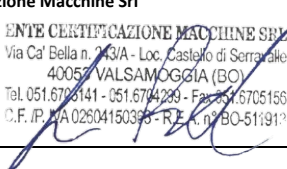
	WIKA PROCESS SOLUTIONS INDIA PVT LTD H.B. NO. 40, REVENUE ESTATE, VILLAGE-DUDHOLA, DISTRICT PALWAL - 121102, (HARYANA) INDIA Tel. :+91-1275-336000, FAX: +91-1275-336099	DOC. NO.WPS/PMA/01 Rev. 02 Dated 24/07/2025
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PARTICULAR MATERIAL APPRAISAL(PMA)

PMA Ref. N°	WPS/PMA/007
Pressure Equipment Manufacturer:	M/s. WIKA Process Solutions India Pvt.Ltd.
Material specification (name, grade)	A182 Gr.F22 Cl1 & Cl3/SA 182 Gr.F22 Cl1& Cl3
Delivery Condition	Annealed Or Normalized & Tempered as per ASTM A182/ SA182
Thickness	As per GAD
Pressure Equipment	Primary Flow components forged and machined components, Instrumentation Valves and Valve manifolds.
Construction Code Or Standard	ASME SEC-I,VIII-1, B31.1,B31.3, B16.36,B16.5
PED Category	I,II, III
Fluid Type	Group 1 & 2
Max. allowable temperature	649°C
Min. allowable temperature	-29 °C

Compliance with Essential Safety requirements for materials

Sr No	Property	Requirement	Compliance
1	Appropriate Properties_Strength (Annexure I-4.1(a))	Proof Strength/Yield Strength/UTS	Compliance_Yes As per ASME SA 182 F22 Cl1 & Cl3
2	Sufficiently Ductile Annexure I_4.1(a) Annexure I_7.5	In Steel :14%	Compliance_Yes As per ASME SA 182 F22 Cl1 & Cl3
3	Sufficiently Tough Annexure I_4.1(a) Annexure I_7.5	In Steel 27 J at 20°C or at Lowest Operating Temperature	Compliance_Yes Exempted as per A182 Gr.22 Cl1 & Cl3 is listed material in Table 1A-M of ASME B31.3 with design minimum temperature of -29 Deg. C. So, for this material, Impact test is not required.
4	Not Significantly affected by Ageing (Annexure I _ 4.1(c))	Appropriate selection, suitable composition	Compliance_Yes Common steel used, Noexpected ageing for defined end product temperatures and during manufacturing
5	Chemical compatibility between fluids and materials (Annex 1 _ 4.1 (b))	Sufficiently chemically resistant to the fluid contained, considering the scheduled lifetime of the equipment.	Compliance_Yes Specifications on materials and fluids compatibility are defined by good engineering practices applied by Manufacturer.
6	Non-susceptible to give undesirable effects when put together with other materials (Annex 1 _ 4.1 (e))	Different materials joined together needs to have electrochemical compatibility	Putting together different materials is avoided. Manufacturer applies the recommendations of the Appendix F of the ASME B31.3
7	Suitable for intended processing (Annex 1 _ 4.1 (d))	e.g Welding , Forming etc	Compliance_Yes Suitable for Machining/Welding
8	Type of material Certificate (Annex 1 _ 4.3)	Cat I - Certificate affirming compliance with the specification. Cat II, III - Certificate of Specific Product Control.	Compliance_Yes Certificate EN1024 3.1 or 3.2
9	Material Manufacturer Approval (Annex 1 _ 4.3)	Supplier Evaluation	Compliance_Yes Evaluation Record

Manufacturer : Wika Process Solutions India Pvt Ltd.  Signed Date:-25.07.2025	Notified Body : Ente Certificazione Macchine Srl (Notified Body Id No:-1282)  Signed Date:- 08-August-2025 ENTE CERTIFICAZIONE MACCHINE SRL Via Ca' Bella n. 43/A - Loc. Castello di Serravalle 40057 VALSAMOGGIA (BO) Tel. 051.6704141 - 051.6704209 - Fax 051.6705156 C.F. IP: RA 02604150395 - R.E.A. n° BO-511911
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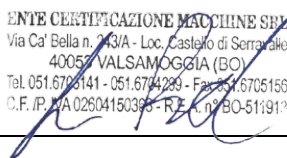
	WIKA PROCESS SOLUTIONS INDIA PVT LTD H.B. NO. 40, REVENUE ESTATE, VILLAGE-DUDHOLA, DISTRICT PALWAL - 121102, (HARYANA) INDIA Tel. :+91-1275-336000, FAX: +91-1275-336099	DOC. NO.WPS/PMA/01 Rev. 02 Dated 24/07/2025
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PARTICULAR MATERIAL APPRAISAL(PMA)

PMA Ref. N°	WPS/PMA/008
Pressure Equipment Manufacturer:	M/s. WIKA Process Solutions India Pvt.Ltd.
Material specification (name, grade)	A182 Gr.F316/316L ,SA182 Gr.F316/316L
Delivery Condition	Solution Treat and Quench As per A182/SA182
Thickness	As per GAD
Pressure Equipment	Primary Flow components forged and machined components, Instrumentation Valves and Valve manifolds.
Construction Code Or Standard	ASME SEC-I,VIII-1, B31.1,B31.3, B16.36,B16.5
PED Category	I,II, III
Fluid Type	Group 1 & 2
Max. allowable temperature	816°C
Min. allowable temperature	-196 °C

Compliance with Essential Safety requirements for materials

Sr No	Property	Requirement	Compliance
1	Appropriate Properties_Strength (Annexure I-4.1(a))	Proof Strength/Yield Strength/UTS	Compliance_Yes As per ASME SA 182 F316 /316L
2	Sufficiently Ductile Annexure I_4.1(a) Annexure I_7.5	In Steel :14%	Compliance_Yes As per ASME SA 182 F316 /316L
3	Sufficiently Tough Annexure I_4.1(a) Annexure I_7.5	In Steel 27 J at 20°C or at Lowest Operating Temperature	Compliance_Yes Exempted as per PED guideline G-17 & EN-10028-7, Table -9 ,Note
4	Not Significantly affected by Ageing (Annexure I _ 4.1(c))	Appropriate selection, suitable composition	Compliance_Yes Common steel used, Noexpected ageing for defined end product temperatures and during manufacturing
5	Chemical compatibility between fluids and materials (Annex 1 _ 4.1 (b))	Sufficiently chemically resistant to the fluid contained, considering the scheduled lifetime of the equipment.	Compliance_Yes Specifications on materials and fluids compatibility are defined by good engineering practices applied by Manufacturer.
6	Non-susceptible to give undesirable effects when put together with other materials (Annex 1 _ 4.1 (e))	Different materials joined together needs to have electrochemical compatibility	Putting together different materials is avoided. Manufacturer applies the recommendations of the Appendix F of the ASME B31.3
7	Suitable for intended processing (Annex 1 _ 4.1 (d))	e.g Welding , Forming etc	Compliance_Yes Suitable for Machining/Welding
8	Type of material Certificate (Annex 1 _ 4.3)	Cat I - Certificate affirming compliance with the specification. Cat II, III - Certificate of Specific Product Control.	Compliance_Yes Certificate EN1024 3.1 or 3.2
9	Material Manufacturer Approval (Annex 1 _ 4.3)	Supplier Evaluation	Compliance_Yes Evaluation Record

Manufacturer : Wika Process Solutions India Pvt Ltd.  Signed Date:-25.07.2025	Notified Body : Ente Certificazione Macchine Srl (Notified Body Id No:-1282)  ENTE CERTIFICAZIONE MACCHINE SRL Via Ca' Bella n. 43/A - Loc. Castello di Serravalle 40050 VALSAMOGGIA (BO) Tel. 051.6704141 - 051.6704209 - Fax 051.6705156 C.F./P.I.A 02604150398 - R.E.A. n° BO-511917
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PARTICULAR MATERIAL APPRAISAL(PMA)

PMA Ref. N°	WPS/PMIA/009	M/s. WIKA Process Solutions India Pvt.Ltd.
Pressure Equipment Manufacturer:		A240 Gr.316/316L , SA240 Gr.316/316L
Material specification (name, grade)		Solution Treat and Quench
Delivery Condition		As per GAD
Thickness		Primary Flow components forged and machined components, Instrumentation Valves and Valve manifolds.
Pressure Equipment		ASME SEC-I,VIII-1, B31.1,B31.3, B16.36,B16.5
Construction Code Or Standard		I,II, III
PED Category		Group 1 & 2
Fluid Type		816°C
Max. allowable temperature		-196 °C
Min. allowable temperature		

Compliance with Essential Safety requirements for materials

Sr No	Property	Requirement	Compliance
1	Appropriate Properties_Strength (Annexure I-4.1(a))	Proof Strength/Yield Strength/UTS	Compliance_Yes As per ASME SA 240 Gr.316/316L
2	Sufficiently Ductile Annexure I_4.1(a) Annexure I_7.5	In Steel :14%	Compliance_Yes As per ASME SA 240 Gr.316/316L
3	Sufficiently Tough Annexure I_4.1(a) Annexure I_7.5	In Steel 27 J at 20°C or at Lowest Operating Temperature	Compliance_Yes Exempted as per PED guideline G-17 & EN-10028-7, Table -9 ,Note
4	Not Significantly affected by Ageing (Annexure I _ 4.1(c))	Appropriate selection, suitable composition	Compliance_Yes Common steel used, Noexpected ageing for defined end product temperatures and during manufacturing
5	Chemical compatibility between fluids and materials (Annex 1 _ 4.1 (b))	Sufficiently chemically resistant to the fluid contained, considering the scheduled lifetime of the equipment.	Compliance_Yes Specifications on materials and fluids compatibility are defined by good engineering practices applied by Manufacturer.
6	Non-susceptible to give undesirable effects when put together with other materials (Annex 1 _ 4.1 (e))	Different materials joined together needs to have electrochemical compatibility	Putting together different materials is avoided. Manufacturer applies the recommendations of the Appendix F of the ASME B31.3
7	Suitable for intended processing (Annex 1 _ 4.1 (d))	e.g Welding , Forming etc	Compliance_Yes Suitable for Machining/Welding
8	Type of material Certificate (Annex 1 _ 4.3)	Cat I - Certificate affirming compliance with the specification. Cat II, III - Certificate of Specific Product Control.	Compliance_Yes Certificate EN1024 3.1 or 3.2
9	Material Manufacturer Approval (Annex 1 _ 4.3)	Supplier Evaluation	Compliance_Yes Evaluation Record

Manufacturer : Wika Process Solutions India Pvt Ltd.  Signed Date:-25.07.2025	Notified Body : Ente Certificazione Macchine Srl (Notified Body Id No:-1282) ENTE CERTIFICAZIONE MACCHINE SRL Via Ca' Bella n. 243/A - Loc. Castello di Serravalle 40051 VALSAMOGGIA (BO) Tel. 051.6705141 - 051.6744289 - Fax 051.6705166 C.F./P. IVA 02604150395 - R.E.A. n° BO-511913 Signed Date:- 08-August-2025
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	WIKA PROCESS SOLUTIONS INDIA PVT LTD H.B. NO. 40, REVENUE ESTATE, VILLAGE-DUDHOLA, DISTRICT PALWAL - 121102, (HARYANA) INDIA Tel. :+91-1275-336000, FAX: +91-1275-336099	DOC. NO.WPS/PMA/01 Rev. 02 Dated 24/07/2025
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PARTICULAR MATERIAL APPRAISAL(PMA)

PMA Ref. N°	WPS/PMA/010	M/s. WIKA Process Solutions India Pvt.Ltd.
Pressure Equipment Manufacturer:		A312 Gr.TP316/316L , SA312 Gr.TP316/316L
Material specification (name, grade)		Solution Treat and Quench As per SA312
Delivery Condition		As per GAD
Thickness		Primary Flow components forged and machined components, Instrumentation Valves and Valve manifolds.
Pressure Equipment		ASME SEC-I,VIII-1, B31.1,B31.3, B16.36,B16.5
Construction Code Or Standard		I,II, III
PED Category		Group 1 & 2
Fluid Type		816°C
Max. allowable temperature		-196 °C
Min. allowable temperature		

Compliance with Essential Safety requirements for materials

Sr No	Property	Requirement	Compliance
1	Appropriate Properties_Strength (Annexure I-4.1(a))	Proof Strength/Yield Strength/UTS	Compliance_Yes As per ASME SA 312 TP 316/316L
2	Sufficiently Ductile Annexure I_4.1(a) Annexure I_7.5	In Steel :14%	Compliance_Yes As per ASME SA 312 TP 316/316L
3	Sufficiently Tough Annexure I_4.1(a) Annexure I_7.5	In Steel 27 J at 20°C or at Lowest Operating Temperature	Compliance_Yes Exempted as per PED guideline G-17 & EN-10028-7, Table -9 ,Note
4	Not Significantly affected by Ageing (Annexure I _ 4.1(c))	Appropriate selection, suitable composition	Compliance_Yes Common steel used, Noexpected ageing for defined end product temperatures and during manufacturing
5	Chemical compatibility between fluids and materials (Annex 1 _ 4.1 (b))	Sufficiently chemically resistant to the fluid contained, considering the scheduled lifetime of the equipment.	Compliance_Yes Specifications on materials and fluids compatibility are defined by good engineering practices applied by Manufacturer.
6	Non-susceptible to give undesirable effects when put together with other materials (Annex 1 _ 4.1 (e))	Different materials joined together needs to have electrochemical compatibility	Putting together different materials is avoided. Manufacturer applies the recommendations of the Appendix F of the ASME B31.3
7	Suitable for intended processing (Annex 1 _ 4.1 (d))	e.g Welding , Forming etc	Compliance_Yes Suitable for Machining/Welding
8	Type of material Certificate (Annex 1 _ 4.3)	Cat I - Certificate affirming compliance with the specification. Cat II, III - Certificate of Specific Product Control.	Compliance_Yes Certificate EN1024 3.1 or 3.2
9	Material Manufacturer Approval (Annex 1 _ 4.3)	Supplier Evaluation	Compliance_Yes Evaluation Record

Manufacturer : Wika Process Solutions India Pvt Ltd.  Signed Date:-25.07.2025	Notified Body : Ente Certificazione Macchine Srl (Notified Body Id No:-1282)  Signed Date:- 08-August-2025 ENTE CERTIFICAZIONE MACCHINE SRL Via Cd' Bella n. 243/A - Loc. Castello di Serravalle 40057 VALSAMOGGIA (BO) Tel.051.6703141 - 051.6704289 - Fax:051.6705156 C.F./P.I.A 02604150398 - R.E.A. n° BO-511919
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PARTICULAR MATERIAL APPRAISAL(PMA)

PMA Ref. N°	WPS/PMA/011
Pressure Equipment Manufacturer:	M/s. WIKA Process Solutions India Pvt.Ltd.
Material specification (name, grade)	A182 Gr.F304/304L , SA182 Gr.F304/304L
Delivery Condition	Solution Treat and Quench As per A182/SA182
Thickness	As per GAD
Pressure Equipment	Primary Flow components forged and machined components, Instrumentation Valves and Valve manifolds.
Construction Code Or Standard	ASME SEC-I,VIII-1, B31.1,B31.3, B16.36,B16.5
PED Category	I,II, III
Fluid Type	Group 1 & 2
Max. allowable temperature	816°C
Min. allowable temperature	-196 °C

Compliance with Essential Safety requirements for materials

Sr No	Property	Requirement	Compliance
1	Appropriate Properties_Strength (Annexure I-4.1(a))	Proof Strength/Yield Strength/UTS	Compliance_Yes As per ASME SA 182 F304/304L
2	Sufficiently Ductile Annexure I_4.1(a) Annexure I_7.5	In Steel :14%	Compliance_Yes As per ASME SA 182 F304/304L
3	Sufficiently Tough Annexure I_4.1(a) Annexure I_7.5	In Steel 27 J at 20°C or at Lowest Operating Temperature	Compliance_Yes Exempted as per PED guideline G-17 & EN-10028-7, Table -9 ,Note
4	Not Significantly affected by Ageing (Annexure I _ 4.1(c))	Appropriate selection, suitable composition	Compliance_Yes Common steel used, Noexpected ageing for defined end product temperatures and during manufacturing
5	Chemical compatibility between fluids and materials (Annex 1 _ 4.1 (b))	Sufficiently chemically resistant to the fluid contained, considering the scheduled lifetime of the equipment.	Compliance_Yes Specifications on materials and fluids compatibility are defined by good engineering practices applied by Manufacturer.
6	Non-susceptible to give undesirable effects when put together with other materials (Annex 1 _ 4.1 (e))	Different materials joined together needs to have electrochemical compatibility	Putting together different materials is avoided. Manufacturer applies the recommendations of the Appendix F of the ASME B31.3
7	Suitable for intended processing (Annex 1 _ 4.1 (d))	e.g Welding , Forming etc	Compliance_Yes Suitable for Machining/Welding
8	Type of material Certificate (Annex 1 _ 4.3)	Cat I - Certificate affirming compliance with the specification. Cat II, III - Certificate of Specific Product Control.	Compliance_Yes Certificate EN1024 3.1 or 3.2
9	Material Manufacturer Approval (Annex 1 _ 4.3)	Supplier Evaluation	Compliance_Yes Evaluation Record

Manufacturer : Wika Process Solutions India Pvt Ltd.  Signed Date:-25.07.2025	Notified Body : Ente Certificazione Macchine Srl (Notified Body Id No:-1282)  Signed Date:- 08-August-2025 ENTE CERTIFICAZIONE MACCHINE SRL Via Ca' Bella n. 243/A - Loc. Castello di Serravalle 40059 VALSAMOGGIA (BO) Tel. 051.6705141 - 051.6744289 - Fax 051.6705166 C.F./P. IVA 02604150395 - R.E.A. n° BO-511917
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	WIKA PROCESS SOLUTIONS INDIA PVT LTD H.B. NO. 40, REVENUE ESTATE, VILLAGE-DUDHOLA, DISTRICT PALWAL - 121102, (HARYANA) INDIA Tel. :+91-1275-336000, FAX: +91-1275-336099	DOC. NO.WPS/PMA/01 Rev. 02 Dated 24/07/2025
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PARTICULAR MATERIAL APPRAISAL(PMA)

PMA Ref. N°	WPS/PMA/012
Pressure Equipment Manufacturer:	M/s. WIKA Process Solutions India Pvt.Ltd.
Material specification (name, grade)	A240 Gr.304/304L , SA240 Gr.304/304L
Delivery Condition	Solution Treat and Quench
Thickness	As per GAD
Pressure Equipment	Primary Flow components forged and machined components, Instrumentation Valves and Valve manifolds.
Construction Code Or Standard	ASME SEC-I,VIII-1, B31.1,B31.3, B16.36,B16.5
PED Category	I,II, III
Fluid Type	Group 1 & 2
Max. allowable temperature	816°C
Min. allowable temperature	-196 °C

Compliance with Essential Safety requirements for materials

Sr No	Property	Requirement	Compliance
1	Appropriate Properties_Strength (Annexure I-4.1(a))	Proof Strength/Yield Strength/UTS	Compliance_Yes As per ASME SA 240 Gr.304/304L
2	Sufficiently Ductile Annexure I_4.1(a) Annexure I_7.5	In Steel :14%	Compliance_Yes As per ASME SA 240 Gr.304/304L
3	Sufficiently Tough Annexure I_4.1(a) Annexure I_7.5	In Steel 27 J at 20°C or at Lowest Operating Temperature	Compliance_Yes Exempted as per PED guideline G-17 & EN-10028-7, Table -9 ,Note
4	Not Significantly affected by Ageing (Annexure I _ 4.1(c))	Appropriate selection, suitable composition	Compliance_Yes Common steel used, Noexpected ageing for defined end product temperatures and during manufacturing
5	Chemical compatibility between fluids and materials (Annex 1 _ 4.1 (b))	Sufficiently chemically resistant to the fluid contained, considering the scheduled lifetime of the equipment.	Compliance_Yes Specifications on materials and fluids compatibility are defined by good engineering practices applied by Manufacturer.
6	Non-susceptible to give undesirable effects when put together with other materials (Annex 1 _ 4.1 (e))	Different materials joined together needs to have electrochemical compatibility	Putting together different materials is avoided. Manufacturer applies the recommendations of the Appendix F of the ASME B31.3
7	Suitable for intended processing (Annex 1 _ 4.1 (d))	e.g Welding , Forming etc	Compliance_Yes Suitable for Machining/Welding
8	Type of material Certificate (Annex 1 _ 4.3)	Cat I - Certificate affirming compliance with the specification. Cat II, III - Certificate of Specific Product Control.	Compliance_Yes Certificate EN1024 3.1 or 3.2
9	Material Manufacturer Approval (Annex 1 _ 4.3)	Supplier Evaluation	Compliance_Yes Evaluation Record

Manufacturer : Wika Process Solutions India Pvt Ltd.  Signed Date:-25.07.2025	Notified Body : Ente Certificazione Macchine Srl (Notified Body Id No:-1282) ENTE CERTIFICAZIONE MACCHINE SRL Via Ca' Bella n. 23/A - Loc. Castello di Serravalle 40057 VALSAMOGGIA (BO) Tel. 051.6743141 - 051.6743290 - Fax 051.6700156 C.F./P. IVA 02604150398 - R.E.A. n° BO-511912 Signed Date:- 08-August-2025
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PARTICULAR MATERIAL APPRAISAL(PMA)

PMA Ref. N° WPS/PMA/013

Pressure Equipment Manufacturer:

Material specification (name, grade)

Delivery Condition

Thickness

Pressure Equipment

Construction Code Or Standard

PED Category

Fluid Type

Max. allowable temperature

Min. allowable temperature

M/s. WIKA Process Solutions India Pvt.Ltd.

A312 Gr.TP304/304L , SA312 Gr.TP304/304L

Solution Treat and Quench As per SA312

As per GAD

Primary Flow components forged and machined components, Instrumentation Valves and Valve manifolds.

ASME SEC-I,VIII-1, B31.1,B31.3, B16.36,B16.5

I,II, III

Group 1 & 2

816°C

-196 °C

Compliance with Essential Safety requirements for materials

Sr No	Property	Requirement	Compliance
1	Appropriate Properties_Strength (Annexure I-4.1(a))	Proof Strength/Yield Strength/UTS	Compliance_Yes As per ASME SA312 Gr.TP304/304L
2	Sufficiently Ductile Annexure I_4.1(a) Annexure I_7.5	In Steel :14%	Compliance_Yes As per ASME SA312 Gr.TP304/304L
3	Sufficiently Tough Annexure I_4.1(a) Annexure I_7.5	In Steel 27 J at 20°C or at Lowest Operating Temperature	Compliance_Yes Exempted as per PED guideline G-17 & EN-10028-7, Table -9 ,Note
4	Not Significantly affected by Ageing (Annexure I _ 4.1(c))	Appropriate selection, suitable composition	Compliance_Yes Common steel used, Noexpected ageing for defined end product temperatures and during manufacturing
5	Chemical compatibility between fluids and materials (Annex 1 _ 4.1 (b))	Sufficiently chemically resistant to the fluid contained, considering the scheduled lifetime of the equipment.	Compliance_Yes Specifications on materials and fluids compatibility are defined by good engineering practices applied by Manufacturer.
6	Non-susceptible to give undesirable effects when put together with other materials (Annex 1 _ 4.1 (e))	Different materials joined together needs to have electrochemical compatibility	Putting together different materials is avoided. Manufacturer applies the recommendations of the Appendix F of the ASME B31.3
7	Suitable for intended processing (Annex 1 _ 4.1 (d))	e.g Welding , Forming etc	Compliance_Yes Suitable for Machining/Welding
8	Type of material Certificate (Annex 1 _ 4.3)	Cat I - Certificate affirming compliance with the specification. Cat II, III - Certificate of Specific Product Control.	Compliance_Yes Certificate EN1024 3.1 or 3.2
9	Material Manufacturer Approval (Annex 1 _ 4.3)	Supplier Evaluation	Compliance_Yes Evaluation Record

Manufacturer : Wika Process Solutions India Pvt Ltd.

Signed

Date:-25.07.2025



Notified Body : Ente Certificazione Macchine Srl

(Notified Body Id No:-1282)

Signed

Date:- 08-August-2025

ENTE CERTIFICAZIONE MACCHINE SRL
Via Ca' Bella n. 43/A - Loc. Castello di Serravalle
40057 VALSAMOGGIA (BO)
Tel. 051.6704141 - 051.6704299 - Fax 051.6705156
C.F./P. IVA 02604150395 - R.E.A. n° 30-511913

	WIKA PROCESS SOLUTIONS INDIA PVT LTD H.B. NO. 40, REVENUE ESTATE, VILLAGE-DUDHOLA, DISTRICT PALWAL - 121102, (HARYANA) INDIA Tel. :+91-1275-336000, FAX: +91-1275-336099	DOC. NO.WPS/PMA/01 Rev. 02 Dated 24/07/2025
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PARTICULAR MATERIAL APPRAISAL(PMA)

PMA Ref. N°	WPS/PMA/014
Pressure Equipment Manufacturer:	M/s. WIKA Process Solutions India Pvt.Ltd.
Material specification (name, grade)	A182 Gr.F91 Types 1 and 2/SA182 Gr.F91 Types 1 and 2
Delivery Condition	Normalized & Tempered Or Quenched & Tempered as per ASTM A182/ SA182
Thickness	As per GAD
Pressure Equipment	Primary Flow components forged and machined components, Instrumentation Valves and Valve manifolds.
Construction Code Or Standard	ASME SEC-I,VIII-1, B31.1,B31.3, B16.36,B16.5
PED Category	I,II, III
Fluid Type	Group 1 & 2
Max. allowable temperature	649°C
Min. allowable temperature	-29 °C

Compliance with Essential Safety requirements for materials

Sr No	Property	Requirement	Compliance
1	Appropriate Properties_Strength (Annexure I_4.1(a))	Proof Strength/Yield Strength/UTS	Compliance_Yes As per ASME SA182 Gr.F91 Types 1 and 2
2	Sufficiently Ductile Annexure I_4.1(a) Annexure I_7.5	In Steel :14%	Compliance_Yes As per ASME SA182 Gr.F91 Types 1 and 2
3	Sufficiently Tough Annexure I_4.1(a) Annexure I_7.5	In Steel 27 J at 20°C or at Lowest Operating Temperature	Compliance_Yes Exempted as per SA182 Gr.F91 Types 1 and 2 is listed material in Table 1A-M of ASME B31.3 with design minimum temperature of -29 Deg. C. So, for this material, Impact test is not required.
4	Not Significantly affected by Ageing (Annexure I _ 4.1(c))	Appropriate selection, suitable composition	Compliance_Yes Common steel used, Noexpected ageing for defined end product temperatures and during manufacturing
5	Chemical compatibility between fluids and materials (Annex 1 _ 4.1 (b))	Sufficiently chemically resistant to the fluid contained, considering the scheduled lifetime of the equipment.	Compliance_Yes Specifications on materials and fluids compatibility are defined by good engineering practices applied by Manufacturer.
6	Non-susceptible to give undesirable effects when put together with other materials (Annex 1 _ 4.1 (e))	Different materials joined together needs to have electrochemical compatibility	Putting together different materials is avoided. Manufacturer applies the recommendations of the Appendix F of the ASME B31.3
7	Suitable for intended processing (Annex 1 _ 4.1 (d))	e.g Welding , Forming etc	Compliance_Yes Suitable for Machining/Welding
8	Type of material Certificate (Annex 1 _ 4.3)	Cat I - Certificate affirming compliance with the specification. Cat II, III - Certificate of Specific Product Control.	Compliance_Yes Certificate EN1024 3.1 or 3.2
9	Material Manufacturer Approval (Annex 1 _ 4.3)	Supplier Evaluation	Compliance_Yes Evaluation Record

Manufacturer : Wika Process Solutions India Pvt Ltd.  Signed Date:-25.07.2025	Notified Body : Ente Certificazione Macchine Srl (Notified Body Id No:-1282)  Via Ca' Bella n. 243/A - Loc. Castello di Serravalle 40057 VALSAMOGGIA (BO) Tel. 051.6705141 - 051.6704289 - Fax 051.6705156 C.F./P. IVA 02604150396 - R.E.A. n° BO-511917 Signed Date:- 08-August-2025
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PARTICULAR MATERIAL APPRAISAL(PMA)

PMA Ref. N° WPS/PMA/015

Pressure Equipment Manufacturer:

Material specification (name, grade)

Delivery Condition

Thickness

Pressure Equipment

Construction Code Or Standard

PED Category

Fluid Type

Max. allowable temperature

Min. allowable temperature

M/s. WIKA Process Solutions India Pvt.Ltd.

A240 Gr.410 , SA240 Gr.410

Annealed

As per GAD

Primary Flow components forged and machined components, Instrumentation Valves and Valve manifolds.

ASME SEC-I,VIII-1, B31.1,B31.3, B16.36,B16.5

I,II, III

Group 1 & 2

649°C

-29 °C

Compliance with Essential Safety requirements for materials

Sr No	Property	Requirement	Compliance
1	Appropriate Properties_Strength (Annexure I-4.1(a))	Proof Strength/Yield Strength/UTS	Compliance_Yes As per ASME SA 240 Gr.410
2	Sufficiently Ductile Annexure I_4.1(a) Annexure I_7.5	In Steel :14%	Compliance_Yes As per ASME SA 240 Gr.410
3	Sufficiently Tough Annexure I_4.1(a) Annexure I_7.5	In Steel 27 J at 20°C or at Lowest Operating Temperature	Compliance_Yes Exempted as per SA240 Gr.410 is listed material in Table 1A-M of ASME B31.3 with design minimum temperature of -29 Deg. C. So, for this material, Impact test is not required.
4	Not Significantly affected by Ageing (Annexure I _ 4.1(c))	Appropriate selection, suitable composition	Compliance_Yes Common steel used, Noexpected ageing for defined end product temperatures and during manufacturing
5	Chemical compatibility between fluids and materials (Annex 1 _ 4.1 (b))	Sufficiently chemically resistant to the fluid contained, considering the scheduled lifetime of the equipment.	Compliance_Yes Specifications on materials and fluids compatibility are defined by good engineering practices applied by Manufacturer.
6	Non-susceptible to give undesirable effects when put together with other materials (Annex 1 _ 4.1 (e))	Different materials joined together needs to have electrochemical compatibility	Putting together different materials is avoided. Manufacturer applies the recommendations of the Appendix F of the ASME B31.3
7	Suitable for intended processing (Annex 1 _ 4.1 (d))	e.g Welding , Forming etc	Compliance_Yes Suitable for Machining/Welding
8	Type of material Certificate (Annex 1 _ 4.3)	Cat I - Certificate affirming compliance with the specification. Cat II, III - Certificate of Specific Product Control.	Compliance_Yes Certificate EN1024 3.1 or 3.2
9	Material Manufacturer Approval (Annex 1 _ 4.3)	Supplier Evaluation	Compliance_Yes Evaluation Record

Manufacturer : Wika Process Solutions India Pvt Ltd.  Signed Date:-12.08.2025	Notified Body : Ente Certificazione Macchine Srl (Notified Body Id No:-1282) ENTE CERTIFICAZIONE MACCHINE SRL Via Ca' Bella n. 23/A - Loc. Castello di Serravalle 40057 VALSAMOGGIA (BO) Tel. 051.6705141 - 051.6744239 - Fax 051.6705156 C.F./P.I.A 02504150395 - R.E.A. n° 511912 Signed Date:- 21-August-2025
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PARTICULAR MATERIAL APPRAISAL(PMA)

PMA Ref. N° WPS/PMA/016

Pressure Equipment Manufacturer:

Material specification (name, grade)

Delivery Condition

Thickness

Pressure Equipment

Construction Code Or Standard

PED Category

Fluid Type

Max. allowable temperature

Min. allowable temperature

M/s. WIKA Process Solutions India Pvt.Ltd.

ASTM B462 UNS N08020/ ASME SB 462 UNS N08020

Stabilized-annealed

As per GAD

Primary Flow components forged and machined components, Instrumentation Valves and Valve manifolds.

ASME SEC-I,VIII-1, B31.1,B31.3, B16.36,B16.5

I,II, III

Group 1 & 2

427°C

-198 °C

Compliance with Essential Safety requirements for materials

Sr No	Property	Requirement	Compliance
1	Appropriate Properties_Strength (Annexure I-4.1(a))	Proof Strength/Yield Strength/UTS	Compliance_Yes As per ASME SB 462 UNS N08020
2	Sufficiently Ductile Annexure I_4.1(a) Annexure I_7.5	In Steel :14%	Compliance_Yes As per ASME SB 462 UNS N08020
3	Sufficiently Tough Annexure I_4.1(a) Annexure I_7.5	In Steel 27 J at 20°C or at Lowest Operating Temperature	Compliance_Yes Exempted as per B462 UNS N08020 is listed material in Table 1A-M of ASME B31.3 with design minimum temperature of -198 Deg. C. So, for this material, Impact test is not required.
4	Not Significantly affected by Ageing (Annexure I _ 4.1(c))	Appropriate selection, suitable composition	Compliance_Yes Common steel used, Noexpected ageing for defined end product temperatures and during manufacturing
5	Chemical compatibility between fluids and materials (Annex 1 _ 4.1 (b))	Sufficiently chemically resistant to the fluid contained, considering the scheduled lifetime of the equipment.	Compliance_Yes Specifications on materials and fluids compatibility are defined by good engineering practices applied by Manufacturer.
6	Non-susceptible to give undesirable effects when put together with other materials (Annex 1 _ 4.1 (e))	Different materials joined together needs to have electrochemical compatibility	Putting together different materials is avoided. Manufacturer applies the recommendations of the Appendix F of the ASME B31.3
7	Suitable for intended processing (Annex 1 _ 4.1 (d))	e.g Welding , Forming etc	Compliance_Yes Suitable for Machining/Welding
8	Type of material Certificate (Annex 1 _ 4.3)	Cat I - Certificate affirming compliance with the specification. Cat II, III - Certificate of Specific Product Control.	Compliance_Yes Certificate EN1024 3.1 or 3.2
9	Material Manufacturer Approval (Annex 1 _ 4.3)	Supplier Evaluation	Compliance_Yes Evaluation Record

Manufacturer : Wika Process Solutions India Pvt Ltd.  Signed Date:-12.08.2025	Notified Body : Ente Certificazione Macchine Srl (Notified Body Id No:-1282) ENTE CERTIFICAZIONE MACCHINE SRL Via Ca' Bella n. 23/A - Loc. Castello di Serravalle 40057 VALSAMOGGIA (BO) Tel.051.6704141 - 051.6704200 - Fax 051.6705156 C.F./P.IVA 02604150396 - R.E.A. n° BO-511913 Signed Date:- 21-August-2025
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	WIKA PROCESS SOLUTIONS INDIA PVT LTD H.B. NO. 40, REVENUE ESTATE, VILLAGE-DUDHOLA, DISTRICT PALWAL - 121102, (HARYANA) INDIA Tel. :+91-1275-336000, FAX: +91-1275-336099	DOC. NO.WPS/PMA/01 Rev. 02 Dated 24/07/2025
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PARTICULAR MATERIAL APPRAISAL(PMA)

PMA Ref. N° WPS/PMA/017

Pressure Equipment Manufacturer:

Material specification (name, grade)

Delivery Condition

Thickness

Pressure Equipment

Construction Code Or Standard

PED Category

Fluid Type

Max. allowable temperature

Min. allowable temperature

M/s. WIKA Process Solutions India Pvt.Ltd.

ASTM B729 UNS N08020/ ASME SB 729 UNS N08020

Stabilized-annealed

As per GAD

Primary Flow components forged and machined components, Instrumentation Valves and Valve manifolds.

ASME SEC-I,VIII-1, B31.1,B31.3, B16.36,B16.5

I,II, III

Group 1 & 2

427°C

-198 °C

Compliance with Essential Safety requirements for materials

Sr No	Property	Requirement	Compliance
1	Appropriate Properties_Strength (Annexure I-4.1(a))	Proof Strength/Yield Strength/UTS	Compliance_Yes As per ASME SB 729 UNS N08020
2	Sufficiently Ductile Annexure I_4.1(a) Annexure I_7.5	In Steel :14%	Compliance_Yes As per ASME SB 729 UNS N08020
3	Sufficiently Tough Annexure I_4.1(a) Annexure I_7.5	In Steel 27 J at 20°C or at Lowest Operating Temperature	Compliance_Yes Exempted as per B462 UNS N08020 is listed material in Table 1A-M of ASME B31.3 with design minimum temperature of -198 Deg. C. So, for this material, Impact test is not required.
4	Not Significantly affected by Ageing (Annexure I _ 4.1(c))	Appropriate selection, suitable composition	Compliance_Yes Common steel used, Noexpected ageing for defined end product temperatures and during manufacturing
5	Chemical compatibility between fluids and materials (Annex 1 _ 4.1 (b))	Sufficiently chemically resistant to the fluid contained, considering the scheduled lifetime of the equipment.	Compliance_Yes Specifications on materials and fluids compatibility are defined by good engineering practices applied by Manufacturer.
6	Non-susceptible to give undesirable effects when put together with other materials (Annex 1 _ 4.1 (e))	Different materials joined together needs to have electrochemical compatibility	Putting together different materials is avoided. Manufacturer applies the recommendations of the Appendix F of the ASME B31.3
7	Suitable for intended processing (Annex 1 _ 4.1 (d))	e.g Welding , Forming etc	Compliance_Yes Suitable for Machining/Welding
8	Type of material Certificate (Annex 1 _ 4.3)	Cat I - Certificate affirming compliance with the specification. Cat II, III - Certificate of Specific Product Control.	Compliance_Yes Certificate EN1024 3.1 or 3.2
9	Material Manufacturer Approval (Annex 1 _ 4.3)	Supplier Evaluation	Compliance_Yes Evaluation Record

Manufacturer : Wika Process Solutions India Pvt Ltd.

Signed

Date:-12.08.2025



Notified Body : Ente Certificazione Macchine Srl

(Notified Body Id No:-1282)

Signed

Date:- 21-August-2025

ENTE CERTIFICAZIONE MACCHINE SRL
Via Ca' Bella n. 213/A - Loc. Castello di Sorra
40057 VALSAMOGGIA (BO)
Tel. 051.6728141 - 051.6724299 - Fax 051.6705155
C.F./P. IVA 02604150395 - R.E.A. n° BO-511913

	WIKA PROCESS SOLUTIONS INDIA PVT LTD H.B. NO. 40, REVENUE ESTATE, VILLAGE-DUDHOLA, DISTRICT PALWAL - 121102, (HARYANA) INDIA Tel. :+91-1275-336000, FAX: +91-1275-336099	DOC. NO.WPS/PMA/01 Rev. 02 Dated 24/07/2025
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PARTICULAR MATERIAL APPRAISAL(PMA)

PMA Ref. N°	WPS/PMA/018	M/s. WIKA Process Solutions India Pvt.Ltd.
Pressure Equipment Manufacturer:		ASTM B 127 UNS N04400/ ASME SB 127 UNS N04400
Material specification (name, grade)		Annealed
Delivery Condition		As per GAD
Thickness		Primary Flow components forged and machined components, Instrumentation Valves and Valve manifolds.
Pressure Equipment		
Construction Code Or Standard		ASME SEC-I,VIII-1, B31.1,B31.3, B16.36,B16.5
PED Category		I,II, III
Fluid Type		Group 1 & 2
Max. allowable temperature		482°C
Min. allowable temperature		-198 °C

Compliance with Essential Safety requirements for materials

Sr No	Property	Requirement	Compliance
1	Appropriate Properties_Strength (Annexure I-4.1(a))	Proof Strength/Yield Strength/UTS	Compliance_Yes As per ASME SB 127 UNS N04400
2	Sufficiently Ductile Annexure I_4.1(a) Annexure I_7.5	In Steel :14%	Compliance_Yes As per ASME SB 127 UNS N04400
3	Sufficiently Tough Annexure I_4.1(a) Annexure I_7.5	In Steel 27 J at 20°C or at Lowest Operating Temperature	Compliance_Yes Exempted as per B 127 UNS N04400 is listed material in Table 1A-M of ASME B31.3 with design minimum temperature of -198 Deg. C. So, for this material, Impact test is not required.
4	Not Significantly affected by Ageing (Annexure I _ 4.1(c))	Appropriate selection, suitable composition	Compliance_Yes Common steel used, Noexpected ageing for defined end product temperatures and during manufacturing
5	Chemical compatibility between fluids and materials (Annex 1 _ 4.1 (b))	Sufficiently chemically resistant to the fluid contained, considering the scheduled lifetime of the equipment.	Compliance_Yes Specifications on materials and fluids compatibility are defined by good engineering practices applied by Manufacturer.
6	Non-susceptible to give undesirable effects when put together with other materials (Annex 1 _ 4.1 (e))	Different materials joined together needs to have electrochemical compatibility	Putting together different materials is avoided. Manufacturer applies the recommendations of the Appendix F of the ASME B31.3
7	Suitable for intended processing (Annex 1 _ 4.1 (d))	e.g Welding , Forming etc	Compliance_Yes Suitable for Machining/Welding
8	Type of material Certificate (Annex 1 _ 4.3)	Cat I - Certificate affirming compliance with the specification. Cat II, III - Certificate of Specific Product Control.	Compliance_Yes Certificate EN1024 3.1 or 3.2
9	Material Manufacturer Approval (Annex 1 _ 4.3)	Supplier Evaluation	Compliance_Yes Evaluation Record

Manufacturer : Wika Process Solutions India Pvt Ltd.  Signed Date:-12.08.2025	Notified Body : Ente Certificazione Macchine Srl (Notified Body Id No:-1282) ENTE CERTIFICAZIONE MACCHINE SRL Via Ca' Bella n. 23/A - Loc. Castello di Serravalle 40057 VALSAMOGGIA (BO) Tel. 051.6706141 - 051.6704289 - Fax 051.6705156 C.F./P.I.A 02604150395 - R.E.A. n° BO-511919 Signed Date:- 21-August-2025
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	WIKA PROCESS SOLUTIONS INDIA PVT LTD H.B. NO. 40, REVENUE ESTATE, VILLAGE-DUDHOLA, DISTRICT PALWAL - 121102, (HARYANA) INDIA Tel. :+91-1275-336000, FAX: +91-1275-336099	DOC. NO.WPS/PMA/01 Rev. 02 Dated 24/07/2025
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PARTICULAR MATERIAL APPRAISAL(PMA)

PMA Ref. N°	WPS/PMA/019
Pressure Equipment Manufacturer:	M/s. WIKA Process Solutions India Pvt.Ltd.
Material specification (name, grade)	ASTM B 575 UNS N10276/ ASME SB 575 UNS N10276/ NiMo16Cr15W
Delivery Condition	Solution Annealed
Thickness	As per GAD
Pressure Equipment	Primary Flow components forged and machined components, Instrumentation Valves and Valve manifolds.
Construction Code Or Standard	ASME SEC-I,VIII-1, B31.1,B31.3, B16.36,B16.5
PED Category	I,II, III
Fluid Type	Group 1 & 2
Max. allowable temperature	677°C
Min. allowable temperature	-198 °C

Compliance with Essential Safety requirements for materials

Sr No	Property	Requirement	Compliance
1	Appropriate Properties_Strength (Annexure I-4.1(a))	Proof Strength/Yield Strength/UTS	Compliance_Yes As per ASME SB 575 UNS N10276
2	Sufficiently Ductile Annexure I_4.1(a) Annexure I_7.5	In Steel :14%	Compliance_Yes As per ASME SB 575 UNS N10276
3	Sufficiently Tough Annexure I_4.1(a) Annexure I_7.5	In Steel 27 J at 20°C or at Lowest Operating Temperature	Compliance_Yes Exempted as per SB 575 UNS N10276 is listed material in Table 1A-M of ASME B31.3 with design minimum temperature of -198 Deg. C. So, for this material, Impact test is not required.
4	Not Significantly affected by Ageing (Annexure I _ 4.1(c))	Appropriate selection, suitable composition	Compliance_Yes Common steel used, Noexpected ageing for defined end product temperatures and during manufacturing
5	Chemical compatibility between fluids and materials (Annex 1 _ 4.1 (b))	Sufficiently chemically resistant to the fluid contained, considering the scheduled lifetime of the equipment.	Compliance_Yes Specifications on materials and fluids compatibility are defined by good engineering practices applied by Manufacturer.
6	Non-susceptible to give undesirable effects when put together with other materials (Annex 1 _ 4.1 (e))	Different materials joined together needs to have electrochemical compatibility	Putting together different materials is avoided. Manufacturer applies the recommendations of the Appendix F of the ASME B31.3
7	Suitable for intended processing (Annex 1 _ 4.1 (d))	e.g Welding , Forming etc	Compliance_Yes Suitable for Machining/Welding
8	Type of material Certificate (Annex 1 _ 4.3)	Cat I - Certificate affirming compliance with the specification. Cat II, III - Certificate of Specific Product Control.	Compliance_Yes Certificate EN1024 3.1 or 3.2
9	Material Manufacturer Approval (Annex 1 _ 4.3)	Supplier Evaluation	Compliance_Yes Evaluation Record

Manufacturer : Wika Process Solutions India Pvt Ltd.  Signed Date:-12.08.2025	Notified Body : Ente Certificazione Macchine Srl (Notified Body Id No:-1282) ENTE CERTIFICAZIONE MACCHINE SRL Via Ca' Bella n. 73/A - Loc. Castello di Serravalle 40051 VALSAMOGGIA (BO) Tel.051.6706141 - 051.6744289 - Fax:051.6706156 C.F./P.IVA 02604150369 - R.E.A. n° BO-5119113 Signed Date:- 21-August-2025
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	WIKA PROCESS SOLUTIONS INDIA PVT LTD H.B. NO. 40, REVENUE ESTATE, VILLAGE-DUDHOLA, DISTRICT PALWAL - 121102, (HARYANA) INDIA Tel. : +91-1275-336000, FAX: +91-1275-336099	DOC. NO.WPS/PMA/01 Rev. 02 Dated 24/07/2025
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PARTICULAR MATERIAL APPRAISAL(PMA)

PMA Ref. N° WPS/PMA/020 R1

Pressure Equipment Manufacturer:

Material specification (name, grade)

Delivery Condition

Thickness

Pressure Equipment

Construction Code Or Standard

PED Category

Fluid Type

Max. allowable temperature

Min. allowable temperature

M/s. WIKA Process Solutions India Pvt.Ltd.

ASTM A 193 Gr.B16 / ASME SA 193 GR.B16 (Bolts)

Quenched and Tempered

As per GAD

Primary Flow components forged and machined components, Instrumentation Valves and Valve manifolds.

ASME SEC-I,VIII-1, B31.1,B31.3, B16.36,B16.5

I,II, III

Group 1 & 2

593°C

-29 °C

Compliance with Essential Safety requirements for materials

Sr No	Property	Requirement	Compliance
1	Appropriate Properties_Strength (Annexure I-4.1(a))	Proof Strength/Yield Strength/UTS	Compliance_Yes As per ASME SA 193 GR.B16
2	Sufficiently Ductile Annexure I_4.1(a) Annexure I_7.5	In Steel :14%	Compliance_Yes As per ASME SA 193 GR.B16
3	Sufficiently Tough Annexure I_4.1(a) Annexure I_7.5	In Steel 27 J at 20°C or at Lowest Operating Temperature	Compliance_Yes a) Exempted as per Note-3 of Table A-2 and A-2M of ASME B31.3 with design minimum temperature of -29°C. b) Exempted as per ASME SEC VIII Div I, UCS66 , Impact exemption temperature is (-20° F) -29°C for bolting dia up to 7"(175 mm)
4	Not Significantly affected by Ageing (Annexure I _ 4.1(c))	Appropriate selection, suitable composition	Compliance_Yes Common steel used, Noexpected ageing for defined end product temperatures and during manufacturing
5	Chemical compatibility between fluids and materials (Annex 1 _ 4.1 (b))	Sufficiently chemically resistant to the fluid contained, considering the scheduled lifetime of the equipment.	Compliance_Yes Specifications on materials and fluids compatibility are defined by good engineering practices applied by Manufacturer.
6	Non-susceptible to give undesirable effects when put together with other materials (Annex 1 _ 4.1 (e))	Different materials joined together needs to have electrochemical compatibility	Putting together different materials is avoided. Manufacturer applies the recommendations of the Appendix F of the ASME B31.3
7	Suitable for intended processing (Annex 1 _ 4.1 (d))	e.g Welding , Forming etc	Compliance_Yes Suitable for Machining/Welding
8	Type of material Certificate (Annex 1 _ 4.3)	Cat I - Certificate affirming compliance with the specification. Cat II, III - Certificate of Specific Product Control.	Compliance_Yes Certificate EN1024 3.1 or 3.2
9	Material Manufacturer Approval (Annex 1 _ 4.3)	Supplier Evaluation	Compliance_Yes Evaluation Record

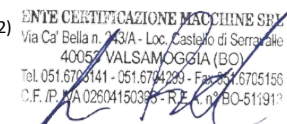
Manufacturer : Wika Process Solutions India Pvt Ltd.  Signed Date:-20.08.2025	Notified Body : Ente Certificazione Macchine Srl (Notified Body Id No:-1282) Signed Date:- 21-August-2025 ENTE CERTIFICAZIONE MACCHINE SRL Via Ca' Bella n. 43/A - Loc. Castello di Serravalle 40057 VALSAMOGGIA (BO) Tel.051.6702141 - 051.6704289 - Fax:051.6705155 C.F./P.I.A 02604150395 - R.E.C. n° BO-511917
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PARTICULAR MATERIAL APPRAISAL(PMA)

PMA Ref. N°	WPS/PMA/021 R1
Pressure Equipment Manufacturer:	M/s. WIKA Process Solutions India Pvt.Ltd.
Material specification (name, grade)	ASTM A 193 Gr.B7 / ASME SA 193 GR.B7 (Bolts)
Delivery Condition	Quenched and Tempered
Thickness	As per GAD
Pressure Equipment	Primary Flow components forged and machined components, Instrumentation Valves and Valve manifolds.
Construction Code Or Standard	ASME SEC-I,VIII-1, B31.1,B31.3, B16.36,B16.5
PED Category	I,II, III
Fluid Type	Group 1 & 2
Max. allowable temperature	565°C
Min. allowable temperature	-48 °C

Compliance with Essential Safety requirements for materials

Sr No	Property	Requirement	Compliance
1	Appropriate Properties_Strength (Annexure I-4.1(a))	Proof Strength/Yield Strength/UTS	Compliance_Yes As per ASME SA 193 GR.B7
2	Sufficiently Ductile Annexure I_4.1(a) Annexure I_7.5	In Steel :14%	Compliance_Yes As per ASME SA 193 GR.B7
3	Sufficiently Tough Annexure I_4.1(a) Annexure I_7.5	In Steel 27 J at 20°C or at Lowest Operating Temperature	Compliance_Yes a) Exempted as per Note-3 of Table A-2 and A-2M of ASME B31.3 with design minimum temperature of -48°C for Bolting dia up to 64mm and -40 °C for dia or over 2+1/2"(64mm) to 7"(175mm). b) Exempted as per ASME SEC VIII Div I, UCS66 , Impact exemption temperature is (-55° F) -48°C for bolting dia up to 2+1/2"(64 mm) & (-40° F) - 40 °C for over 2+1/2"(64mm) to 7"(175mm)
4	Not Significantly affected by Ageing (Annexure I _ 4.1(c))	Appropriate selection, suitable composition	Compliance_Yes Common steel used, Noexpected ageing for defined end product temperatures and during manufacturing
5	Chemical compatibility between fluids and materials (Annex 1 _ 4.1 (b))	Sufficiently chemically resistant to the fluid contained, considering the scheduled lifetime of the equipment.	Compliance_Yes Specifications on materials and fluids compatibility are defined by good engineering practices applied by Manufacturer.
6	Non-susceptible to give undesirable effects when put together with other materials (Annex 1 _ 4.1 (e))	Different materials joined together needs to have electrochemical compatibility	Putting together different materials is avoided. Manufacturer applies the recommendations of the Appendix F of the ASME B31.3
7	Suitable for intended processing (Annex 1 _ 4.1 (d))	e.g Welding , Forming etc	Compliance_Yes Suitable for Machining/Welding
8	Type of material Certificate (Annex 1 _ 4.3)	Cat I - Certificate affirming compliance with the specification. Cat II, III - Certificate of Specific Product Control.	Compliance_Yes Certificate EN1024 3.1 or 3.2
9	Material Manufacturer Approval (Annex 1 _ 4.3)	Supplier Evaluation	Compliance_Yes Evaluation Record

Manufacturer : Wika Process Solutions India Pvt Ltd.  Signed Date:-20.08.2025	Notified Body : Ente Certificazione Macchine Srl (Notified Body Id No:-1282)  Signed Date:- 21-August-2025
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PARTICULAR MATERIAL APPRAISAL(PMA)

PMA Ref. N° WPS/PMA/022 R1

Pressure Equipment Manufacturer:

Material specification (name, grade)

Delivery Condition

Thickness

Pressure Equipment

Construction Code Or Standard

PED Category

Fluid Type

Max. allowable temperature

Min. allowable temperature

M/s. WIKA Process Solutions India Pvt.Ltd.

ASTM A 193 Gr.B7M / ASME SA 193 GR.B7M (Bolts)

Quenched and Tempered

As per GAD

Primary Flow components forged and machined components, Instrumentation Valves and Valve manifolds.

ASME SEC-I,VIII-1, B31.1,B31.3, B16.36,B16.5

I,II, III

Group 1 & 2

565°C

-48 °C

Compliance with Essential Safety requirements for materials

Sr No	Property	Requirement	Compliance
1	Appropriate Properties_Strength (Annexure I-4.1(a))	Proof Strength/Yield Strength/UTS	Compliance_Yes As per ASME SA 193 GR.B7M
2	Sufficiently Ductile Annexure I_4.1(a) Annexure I_7.5	In Steel :14%	Compliance_Yes As per ASME SA 193 GR.B7M
3	Sufficiently Tough Annexure I_4.1(a) Annexure I_7.5	In Steel 27 J at 20°C or at Lowest Operating Temperature	Compliance_Yes a) Exempted as per Note-3 of Table A-2 and A-2M of ASME B31.3 with design minimum temperature of -48°C for Bolting dia up to 4". b) Exempted as per ASME SEC VIII Div I, UCS66 , Impact exemption temperature is (-55° F) -48°C for bolting dia up to 4".
4	Not Significantly affected by Ageing (Annexure I _ 4.1(c))	Appropriate selection, suitable composition	Compliance_Yes Common steel used, No expected ageing for defined end product temperatures and during manufacturing
5	Chemical compatibility between fluids and materials (Annex 1 _ 4.1 (b))	Sufficiently chemically resistant to the fluid contained, considering the scheduled lifetime of the equipment.	Compliance_Yes Specifications on materials and fluids compatibility are defined by good engineering practices applied by Manufacturer.
6	Non-susceptible to give undesirable effects when put together with other materials (Annex 1 _ 4.1 (e))	Different materials joined together needs to have electrochemical compatibility	Putting together different materials is avoided. Manufacturer applies the recommendations of the Appendix F of the ASME B31.3
7	Suitable for intended processing (Annex 1 _ 4.1 (d))	e.g Welding , Forming etc	Compliance_Yes Suitable for Machining/Welding
8	Type of material Certificate (Annex 1 _ 4.3)	Cat I - Certificate affirming compliance with the specification. Cat II, III - Certificate of Specific Product Control.	Compliance_Yes Certificate EN1024 3.1 or 3.2
9	Material Manufacturer Approval (Annex 1 _ 4.3)	Supplier Evaluation	Compliance_Yes Evaluation Record

Manufacturer : Wika Process Solutions India Pvt Ltd.  Signed Date:-20.08.2025	Notified Body : Ente Certificazione Macchine Srl (Notified Body Id No:-1282) Via Ca' Bella n. 43/A - Loc. Castelfo di Serravalle 40050 VALSAMOGGIA (BO) Tel.051.6704141 - 051.6704200 - Fax:051.6705155 C.F./P.IVA 02604150398 - R.E.A. n° BO-511917 Signed Date:- 21-August-2025
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	WIKA PROCESS SOLUTIONS INDIA PVT LTD H.B. NO. 40, REVENUE ESTATE, VILLAGE-DUDHOLA, DISTRICT PALWAL - 121102, (HARYANA) INDIA Tel. :+91-1275-336000, FAX: +91-1275-336099	DOC. NO.WPS/PMIA/01 Rev. 02 Dated 24/07/2025
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PARTICULAR MATERIAL APPRAISAL(PMA)

PMA Ref. N° WPS/PMIA/023 R1

Pressure Equipment Manufacturer:

Material specification (name, grade)

Delivery Condition

Thickness

Pressure Equipment

Construction Code Or Standard

PED Category

Fluid Type

Max. allowable temperature

Min. allowable temperature

M/s. Wika Process Solutions India Pvt.Ltd.

ASTM A 194 Gr.7 / ASME SA 194 Gr.7 (Nuts)

Liquid quenched

As per GAD

Primary Flow components forged and machined components, Instrumentation Valves and Valve manifolds.

ASME SEC-I,VIII-1, B31.1,B31.3, B16.36,B16.5

I,II, III

Group 1 & 2

593°C

-48 °C

Compliance with Essential Safety requirements for materials

Sr No	Property	Requirement	Compliance
1	Appropriate Properties_Strength (Annexure I_4.1(a))	Proof Strength/Yield Strength/UTS	Compliance_Yes As per ASME SA 194 Gr.7 Metal Temperatures.: -48 to 593°C Design Temp.: ASME B31.3, table A-2M (Design stress values for Bolting Materials)
2	Sufficiently Ductile Annexure I_4.1(a) Annexure I_7.5	In Steel :14%	Compliance_Yes As per ASME SA 194 Gr.7
3	Sufficiently Tough Annexure I_4.1(a) Annexure I_7.5	In Steel 27 J at 20°C or at Lowest Operating Temperature	Compliance_Yes a) Exempted as per Note-3 of Table A-2 and A-2M of ASME B31.3 with design minimum temperature of -48 Deg. C b) Exempted as per ASME SEC VIII Div I, UCS66 , Impact exemption temperature is (-55° F) -48°C .
4	Not Significantly affected by Ageing (Annexure I_4.1(c))	Appropriate selection, suitable composition	Compliance_Yes Common steel used, No expected ageing for defined end product temperatures and during manufacturing
5	Chemical compatibility between fluids and materials (Annex 1 _ 4.1 (b))	Sufficiently chemically resistant to the fluid contained, considering the scheduled lifetime of the equipment.	Compliance_Yes Specifications on materials and fluids compatibility are defined by good engineering practices applied by Manufacturer.
6	Non-susceptible to give undesirable effects when put together with other materials (Annex 1 _ 4.1 (e))	Different materials joined together needs to have electrochemical compatibility	Putting together different materials is avoided. Manufacturer applies the recommendations of the Appendix F of the ASME B31.3
7	Suitable for intended processing (Annex 1 _ 4.1 (d))	e.g Welding , Forming etc	Compliance_Yes Suitable for Machining/Welding
8	Type of material Certificate (Annex 1 _ 4.3)	Cat I - Certificate affirming compliance with the specification. Cat II, III - Certificate of Specific Product Control.	Compliance_Yes Certificate EN1024 3.1 or 3.2
9	Material Manufacturer Approval (Annex 1 _ 4.3)	Supplier Evaluation	Compliance_Yes Evaluation Record

Manufacturer : Wika Process Solutions India Pvt Ltd.

Signed

Date:-20.08.2025



Notified Body : Ente Certificazione Macchine Srl

(Notified Body Id No:-1282)

Signed

Date:- 21-August-2025

ENTE CERTIFICAZIONE MACCHINE SRL
Via Ca' Bella n. 73/A - Loc. Castello di Serravalle
40051 VALSAMOGGIO (BO)
Tel. 051.6705141 - 051.6744289 - Fax 051.6705166
C.F./P.I.A 02604150395 - R.E.A. n° BO-511917

	WIKI PROCESS SOLUTIONS INDIA PVT LTD H.B. NO. 40, REVENUE ESTATE, VILLAGE-DUDHOLA, DISTRICT PALWAL - 121102, (HARYANA) INDIA Tel. :+91-1275-336000, FAX: +91-1275-336099	DOC. NO.WPS/PMA/01 Rev. 02 Dated 24/07/2025
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PARTICULAR MATERIAL APPRAISAL(PMA)

PMA Ref. N°	WPS/PMA/024 R1
Pressure Equipment Manufacturer:	M/s. WIKI Process Solutions India Pvt.Ltd.
Material specification (name, grade)	ASTM A 194 Gr.2H / ASME SA 194 Gr.2H (Nuts)
Delivery Condition	Liquid quenched
Thickness	As per GAD
Pressure Equipment	Primary Flow components forged and machined components, Instrumentation Valves and Valve manifolds.
Construction Code Or Standard	ASME SEC-I,VIII-1, B31.1,B31.3, B16.36,B16.5
PED Category	I,II, III
Fluid Type	Group 1 & 2
Max. allowable temperature	593°C
Min. allowable temperature	-48 °C

Compliance with Essential Safety requirements for materials

Sr No	Property	Requirement	Compliance
1	Appropriate Properties_Strength (Annexure I-4.1(a))	Proof Strength/Yield Strength/UTS	Compliance_Yes As per ASME SA 194 Gr.2H Metal Temperatures.: -48 to 593°C Design Temp.: ASME B31.3, table A-2M (Design stress values for Bolting Materials)
2	Sufficiently Ductile Annexure I_4.1(a) Annexure I_7.5	In Steel :14%	Compliance_Yes As per ASME SA 194 Gr.2H
3	Sufficiently Tough Annexure I_4.1(a) Annexure I_7.5	In Steel 27 J at 20°C or at Lowest Operating Temperature	Compliance_Yes a) Exempted as per Note-3 of Table A-2 and A-2M of ASME B31.3 with design minimum temperature of -48 Deg. C b) Exempted as per ASME SEC VIII Div I, UCS66 , Impact exemption temperature is (-55° F) -48°C.
4	Not Significantly affected by Ageing (Annexure I_4.1(c))	Appropriate selection, suitable composition	Compliance_Yes Common steel used, No expected ageing for defined end product temperatures and during manufacturing
5	Chemical compatibility between fluids and materials (Annex 1_4.1 (b))	Sufficiently chemically resistant to the fluid contained, considering the scheduled lifetime of the equipment.	Compliance_Yes Specifications on materials and fluids compatibility are defined by good engineering practices applied by Manufacturer.
6	Non-susceptible to give undesirable effects when put together with other materials (Annex 1_4.1 (e))	Different materials joined together needs to have electrochemical compatibility	Putting together different materials is avoided. Manufacturer applies the recommendations of the Appendix F of the ASME B31.3
7	Suitable for intended processing (Annex 1_4.1 (d))	e.g Welding , Forming etc	Compliance_Yes Suitable for Machining/Welding
8	Type of material Certificate (Annex 1_4.3)	Cat I - Certificate affirming compliance with the specification. Cat II, III - Certificate of Specific Product Control.	Compliance_Yes Certificate EN1024 3.1 or 3.2
9	Material Manufacturer Approval (Annex 1_4.3)	Supplier Evaluation	Compliance_Yes Evaluation Record

Manufacturer : Wika Process Solutions India Pvt Ltd.  Signed Date:-20.08.2025	Notified Body : Ente Certificazione Macchine Srl ENTE CERTIFICAZIONE MACCHINE SRL (Notified Body Id No:-1282) Via Ca' Bella n. 23/A - Loc. Castello di Serravalle 40057 VALSAMOGGIA (BO) Tel.051.6746141 - 051.6744289 - Fax 051.6705156 C.F./P.I.A.02604150393 - R.E.A. n° BO-511911 Signed Date:- 21-August-2025
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	WIKI PROCESS SOLUTIONS INDIA PVT LTD H.B. NO. 40, REVENUE ESTATE, VILLAGE-DUDHOLA, DISTRICT PALWAL - 121102, (HARYANA) INDIA Tel. :+91-1275-336000, FAX: +91-1275-336099	DOC. NO.WPS/PMA/01 Rev. 02 Dated 24/07/2025
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PARTICULAR MATERIAL APPRAISAL(PMA)

PMA Ref. N° WPS/PMA/025 R1

Pressure Equipment Manufacturer:

Material specification (name, grade)

Delivery Condition

Thickness

Pressure Equipment

Construction Code Or Standard

PED Category

Fluid Type

Max. allowable temperature

Min. allowable temperature

M/s. WIKI Process Solutions India Pvt.Ltd.

ASTM A 194 Gr.2HM / ASME SA 194 Gr.2HM (Nuts)

Liquid quenched

As per GAD

Primary Flow components forged and machined components, Instrumentation Valves and Valve manifolds.

ASME SEC-I,VIII-1, B31.1,B31.3, B16.36,B16.5

I,II, III

Group 1 & 2

593°C

-48 °C

Compliance with Essential Safety requirements for materials

Sr No	Property	Requirement	Compliance
1	Appropriate Properties_Strength (Annexure I-4.1(a))	Proof Strength/Yield Strength/UTS	Compliance_Yes As per ASME SA 194 Gr.2HM Metal Temperatures.: -48 to 593°C Design Temp.: ASME B31.3, table A-2M (Design stress values for Bolting Materials)
2	Sufficiently Ductile Annexure I_4.1(a) Annexure I_7.5	In Steel :14%	Compliance_Yes As per ASME SA 194 Gr.2H
3	Sufficiently Tough Annexure I_4.1(a) Annexure I_7.5	In Steel 27 J at 20°C or at Lowest Operating Temperature	Compliance_Yes a) Exempted as per Note-3 of Table A-2 and A-2M of ASME B31.3 with design minimum temperature of -48 Deg. C b) Exempted as per ASME SEC VIII Div I, UCS66 , Impact exemption temperature is (-55° F) -48°C .
4	Not Significantly affected by Ageing (Annexure I _ 4.1(c))	Appropriate selection, suitable composition	Compliance_Yes Common steel used, No expected ageing for defined end product temperatures and during manufacturing
5	Chemical compatibility between fluids and materials (Annex 1 _ 4.1 (b))	Sufficiently chemically resistant to the fluid contained, considering the scheduled lifetime of the equipment.	Compliance_Yes Specifications on materials and fluids compatibility are defined by good engineering practices applied by Manufacturer.
6	Non-susceptible to give undesirable effects when put together with other materials (Annex 1 _ 4.1 (e))	Different materials joined together needs to have electrochemical compatibility	Putting together different materials is avoided. Manufacturer applies the recommendations of the Appendix F of the ASME B31.3
7	Suitable for intended processing (Annex 1 _ 4.1 (d))	e.g Welding , Forming etc	Compliance_Yes Suitable for Machining/Welding
8	Type of material Certificate (Annex 1 _ 4.3)	Cat I - Certificate affirming compliance with the specification. Cat II, III - Certificate of Specific Product Control.	Compliance_Yes Certificate EN1024 3.1 or 3.2
9	Material Manufacturer Approval (Annex 1 _ 4.3)	Supplier Evaluation	Compliance_Yes Evaluation Record

Manufacturer : Wika Process Solutions India Pvt Ltd.  Signed Date:-20.08.2025	Notified Body : Ente Certificazione Macchine Srl ENTE CERTIFICAZIONE MACCHINE SRL (Notified Body Id No:-1282) Via Ca' Bella n. 23/A - Loc. Castello di Serravalle 40057 VALSAMOGGIA (BO) Tel.051.6706141 - 051.6704239 - Fax:051.6705156 C.F./P.IVA 02504150395 - R.E.A. n° BO-511912 Signed Date:- 21-August-2025
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PARTICULAR MATERIAL APPRAISAL(PMA)

PMA Ref. N°	WPS/PMA/026	M/s. WIKI Process Solutions India Pvt.Ltd.
Pressure Equipment Manufacturer:		ASTM A 320 Gr.L7 / ASME SA 320 Gr.L7 (Bolts)
Material specification (name, grade)		Quenched and Tempered
Delivery Condition		As per GAD
Thickness		Primary Flow components forged and machined components, Instrumentation Valves and Valve manifolds.
Pressure Equipment		
Construction Code Or Standard		ASME SEC-I,VIII-1, B31.1,B31.3, B16.36,B16.5
PED Category		I,II, III
Fluid Type		Group 1 & 2
Max. allowable temperature		398°C
Min. allowable temperature		-101 °C

Compliance with Essential Safety requirements for materials

Sr No	Property	Requirement	Compliance
1	Appropriate Properties_Strength (Annexure I-4.1(a))	Proof Strength/Yield Strength/UTS	Compliance_Yes As per ASME SA 320 Gr.L7
2	Sufficiently Ductile Annexure I_4.1(a) Annexure I_7.5	In Steel :14%	Compliance_Yes As per ASME SA 320 Gr.L7
3	Sufficiently Tough Annexure I_4.1(a) Annexure I_7.5	In Steel 27 J at 20°C or at Lowest Operating Temperature	Compliance_Yes As per ASME SA 320 Gr.L7 All material to be impact tested with a result of test energy of no less than 27J at minimum design temperature not greater than -101°C.
4	Not Significantly affected by Ageing (Annexure I _ 4.1(c))	Appropriate selection, suitable composition	Compliance_Yes Common steel used, No expected ageing for defined end product temperatures and during manufacturing
5	Chemical compatibility between fluids and materials (Annex 1 _ 4.1 (b))	Sufficiently chemically resistant to the fluid contained, considering the scheduled lifetime of the equipment.	Compliance_Yes Specifications on materials and fluids compatibility are defined by good engineering practices applied by Manufacturer.
6	Non-susceptible to give undesirable effects when put together with other materials (Annex 1 _ 4.1 (e))	Different materials joined together needs to have electrochemical compatibility	Putting together different materials is avoided. Manufacturer applies the recommendations of the Appendix F of the ASME B31.3
7	Suitable for intended processing (Annex 1 _ 4.1 (d))	e.g Welding , Forming etc	Compliance_Yes Suitable for Machining/Welding
8	Type of material Certificate (Annex 1 _ 4.3)	Cat I - Certificate affirming compliance with the specification. Cat II, III - Certificate of Specific Product Control.	Compliance_Yes Certificate EN1024 3.1 or 3.2
9	Material Manufacturer Approval (Annex 1 _ 4.3)	Supplier Evaluation	Compliance_Yes Evaluation Record

Manufacturer : Wika Process Solutions India Pvt Ltd.  Signed Date:-12.08.2025	Notified Body : Ente Certificazione Macchine Srl (Notified Body Id No:-1282) Via Ca' Bella n. 23/A - Loc. Castello di Serravalle 40050 VALSAMOGGIA (BO) Tel 051.6704141 - 051.6704289 - Fax 051.6705156 C.F./P.IVA 02604150395 - R.E.A. n° BO-511917
	Signed Date:- 21-August-2025

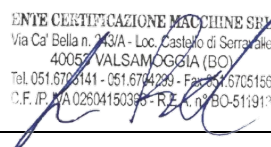
PARTICULAR MATERIAL APPRAISAL(PMA)

PMA Ref. N° WPS/PMIA/027

Pressure Equipment Manufacturer:	M/s. WIKA Process Solutions India Pvt.Ltd.
Material specification (name, grade)	ASTM A 193 Gr.B8M CL2 / ASME SA193 Gr.B8M CL2 (Bolts)
Delivery Condition	Carbide solution treated and strain hardened
Thickness	As per GAD
Pressure Equipment	Primary Flow components forged and machined components, Instrumentation Valves and Valve manifolds.
Construction Code Or Standard	ASME SEC-I,VIII-1, B31.1,B31.3, B16.36,B16.5
PED Category	I,II, III
Fluid Type	Group 1 & 2
Max. allowable temperature	565°C
Min. allowable temperature	-198 °C

Compliance with Essential Safety requirements for materials

Sr No	Property	Requirement	Compliance
1	Appropriate Properties_Strength (Annexure I-4.1(a))	Proof Strength/Yield Strength/UTS	Compliance_Yes As per ASME SA193 Gr.B8M
2	Sufficiently Ductile Annexure I_4.1(a) Annexure I_7.5	In Steel :14%	Compliance_Yes As per ASME SA193 Gr.B8M
3	Sufficiently Tough Annexure I_4.1(a) Annexure I_7.5	In Steel 27 J at 20°C or at Lowest Operating Temperature	Compliance_Yes Min. design Temp. : -198°C Design min. temperature. for with material is normally suitable without impact testing: -198°C
4	Not Significantly affected by Ageing (Annexure I _ 4.1(c))	Appropriate selection, suitable composition	Compliance_Yes Common steel used, No expected ageing for defined end product temperatures and during manufacturing
5	Chemical compatibility between fluids and materials (Annex 1 _ 4.1 (b))	Sufficiently chemically resistant to the fluid contained, considering the scheduled lifetime of the equipment.	Compliance_Yes Specifications on materials and fluids compatibility are defined by good engineering practices applied by Manufacturer.
6	Non-susceptible to give undesirable effects when put together with other materials (Annex 1 _ 4.1 (e))	Different materials joined together needs to have electrochemical compatibility	Putting together different materials is avoided. Manufacturer applies the recommendations of the Appendix F of the ASME B31.3
7	Suitable for intended processing (Annex 1 _ 4.1 (d))	e.g Welding , Forming etc	Compliance_Yes Suitable for Machining/Welding
8	Type of material Certificate (Annex 1 _ 4.3)	Cat I - Certificate affirming compliance with the specification. Cat II, III - Certificate of Specific Product Control.	Compliance_Yes Certificate EN1024 3.1 or 3.2
9	Material Manufacturer Approval (Annex 1 _ 4.3)	Supplier Evaluation	Compliance_Yes Evaluation Record

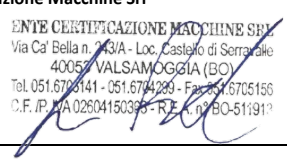
Manufacturer : Wika Process Solutions India Pvt Ltd.  Signed Date:-12.08.2025	Notified Body : Ente Certificazione Macchine Srl (Notified Body Id No:-1282) Signed Date:- 21-August-2025 
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PARTICULAR MATERIAL APPRAISAL(PMA)

PMA Ref. N°	WPS/PMIA028
Pressure Equipment Manufacturer:	M/s. WIKA Process Solutions India Pvt.Ltd.
Material specification (name, grade)	ASTM A194 Gr.8MA / ASME SA194 Gr.8MA (Nuts)
Delivery Condition	Carbide solution treated
Thickness	As per GAD
Pressure Equipment	Primary Flow components forged and machined components, Instrumentation Valves and Valve manifolds.
Construction Code Or Standard	ASME SEC-I,VIII-1, B31.1,B31.3, B16.36,B16.5
PED Category	I,II, III
Fluid Type	Group 1 & 2
Max. allowable temperature	816°C
Min. allowable temperature	-198 °C

Compliance with Essential Safety requirements for materials

Sr No	Property	Requirement	Compliance
1	Appropriate Properties_Strength (Annexure I-4.1(a))	Proof Strength/Yield Strength/UTS	Compliance_Yes As per ASME SA194 Gr.8MA Metal Temperatures.: -198 to 816°C Design Temp.: ASME B31.3, table A-2M (Design stress values for Bolting Materials)
2	Sufficiently Ductile Annexure I_4.1(a) Annexure I_7.5	In Steel :14%	Compliance_Yes As per ASME SA193 Gr.B8M
3	Sufficiently Tough Annexure I_4.1(a) Annexure I_7.5	In Steel 27 J at 20°C or at Lowest Operating Temperature	Compliance_Yes Min. design Temp. : -198°C Design min. temperature. for with material is normally suitable without impact testing: -198°C
4	Not Significantly affected by Ageing (Annexure I _ 4.1(c))	Appropriate selection, suitable composition	Compliance_Yes Common steel used, No expected ageing for defined end product temperatures and during manufacturing
5	Chemical compatibility between fluids and materials (Annex 1 _ 4.1 (b))	Sufficiently chemically resistant to the fluid contained, considering the scheduled lifetime of the equipment.	Compliance_Yes Specifications on materials and fluids compatibility are defined by good engineering practices applied by Manufacturer.
6	Non-susceptible to give undesirable effects when put together with other materials (Annex 1 _ 4.1 (e))	Different materials joined together needs to have electrochemical compatibility	Putting together different materials is avoided. Manufacturer applies the recommendations of the Appendix F of the ASME B31.3
7	Suitable for intended processing (Annex 1 _ 4.1 (d))	e.g Welding , Forming etc	Compliance_Yes Suitable for Machining/Welding
8	Type of material Certificate (Annex 1 _ 4.3)	Cat I - Certificate affirming compliance with the specification. Cat II, III - Certificate of Specific Product Control.	Compliance_Yes Certificate EN1024 3.1 or 3.2
9	Material Manufacturer Approval (Annex 1 _ 4.3)	Supplier Evaluation	Compliance_Yes Evaluation Record

Manufacturer : Wika Process Solutions India Pvt Ltd.  Signed Date:-12.08.2025	Notified Body : Ente Certificazione Macchine Srl (Notified Body Id No:-1282)  Ente CERTIFICAZIONE MACCHINE SRL Via Ca' Bella n. 2/A - Loc. Castelfo di Serravalle 40057 VALSAMOGGIA (BO) Tel. 051.6706141 - 051.6704209 - Fax 051.6705156 C.F./P.IVA 02604150396 - R.E.A. n° 30-511913
	Signed Date:- 21-August-2025

PARTICULAR MATERIAL APPRAISAL(PMA)

PMA Ref. N°	WPS/PMA/029	M/s. WIKA Process Solutions India Pvt.Ltd.
Pressure Equipment Manufacturer:		A240 UNS N08020 , SA240 UNS N08020
Material specification (name, grade)		Annealed
Delivery Condition		As per GAD
Thickness		Primary Flow components forged and machined components, Instrumentation Valves and Valve manifolds.
Pressure Equipment		
Construction Code Or Standard		ASME SEC-I,VIII-1, B31.1,B31.3, B16.36,B16.5
PED Category		I,II, III
Fluid Type		Group 1 & 2
Max. allowable temperature		426°C
Min. allowable temperature		-198 °C

Compliance with Essential Safety requirements for materials

Sr No	Property	Requirement	Compliance
1	Appropriate Properties_Strength (Annexure I-4.1(a))	Proof Strength/Yield Strength/UTS	Compliance_Yes As per ASME SA240 UNS N08020
2	Sufficiently Ductile Annexure I_4.1(a) Annexure I_7.5	In Steel :14%	Compliance_Yes As per ASME SA240 UNS N08020
3	Sufficiently Tough Annexure I_4.1(a) Annexure I_7.5	In Steel 27 J at 20°C or at Lowest Operating Temperature	Compliance_Yes Min. design Temp. : -198°C Design min. temperature. for with material is normally suitable without impact testing: -198°C
4	Not Significantly affected by Ageing (Annexure I _ 4.1(c))	Appropriate selection, suitable composition	Compliance_Yes Common steel used, Noexpected ageing for defined end product temperatures and during manufacturing
5	Chemical compatibility between fluids and materials (Annex 1 _ 4.1 (b))	Sufficiently chemically resistant to the fluid contained, considering the scheduled lifetime of the equipment.	Compliance_Yes Specifications on materials and fluids compatibility are defined by good engineering practices applied by Manufacturer.
6	Non-susceptible to give undesirable effects when put together with other materials (Annex 1 _ 4.1 (e))	Different materials joined together needs to have electrochemical compatibility	Putting together different materials is avoided. Manufacturer applies the recommendations of the Appendix F of the ASME B31.3
7	Suitable for intended processing (Annex 1 _ 4.1 (d))	e.g Welding , Forming etc	Compliance_Yes Suitable for Machining/Welding
8	Type of material Certificate (Annex 1 _ 4.3)	Cat I - Certificate affirming compliance with the specification. Cat II, III - Certificate of Specific Product Control.	Compliance_Yes Certificate EN1024 3.1 or 3.2
9	Material Manufacturer Approval (Annex 1 _ 4.3)	Supplier Evaluation	Compliance_Yes Evaluation Record

Manufacturer : Wika Process Solutions India Pvt Ltd.  Signed Date:-12.08.2025	Notified Body : Ente Certificazione Macchine Srl (Notified Body Id No:-1282) ENTE CERTIFICAZIONE MACCHINE SRL Via Ca' Bella n. 73/A - Loc. Castello di Serravalle 40051 VALSAMOGGIA (BO) Tel.051.6706141 - 051.6704289 - Fax.051.6706156 C.F./P.IVA 02604150395 - R.E.A. n° BO-5119113 Signed Date:- 21-August-2025
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