

# PRESSURE PERFORMANCE

## Series MB / CV

Series MB 600 mm	Base Material of the Installation						
	①	②	③	⑤	⑥	⑦	⑧
	ETG-100 / 44SMn28 AISI 1144	C15Pb / 1.0403 ~ SAE 1015 (10L15)	EN 1563: GJS-600-3 ASTM A536: 80-60-03	EN 1561: GJL-250 ASTM A48: NO.35	AlCu4Mg1 / EN AW-2024-T3 AA: 2024 T4/T6*	AlMgSiPb / EN AW-6012-T6 AA: 6012-T6	G-AISI7Mg / EN-AC-42100 ASTM/UNS: A356
Ø 3 – 10	1400 bar / 20300 psi			450 bar / 6500 psi		1200 bar / 17400 psi	380 bar / 5500 psi
Ø 12 – 14	1000 bar / 14500 psi			350 bar / 5100 psi		900 bar / 13000 psi	280 bar / 4100 psi
Hole Tolerance	0 / +0.1 mm						
Hole Roughness	R <sub>z</sub> 10 – 30 µm				Anchorage in Base Metal		

Series MB 600 Inch	Base Material of the Installation						
	①	②	③	⑤	⑥	⑦	⑧
	ETG-100 / 44SMn28 AISI 1144	C15Pb / 1.0403 ~ SAE 1015 (10L15)	EN 1563: GJS-600-3 ASTM A536: 80-60-03	EN 1561: GJL-250 ASTM A48: NO.35	AlCu4Mg1 / EN AW-2024-T3 AA: 2024 T4/T6*	AlMgSiPb / EN AW-6012-T6 AA: 6012-T6	G-AISI7Mg / EN-AC-42100 ASTM/UNS: A356
Ø 0.093 – 0.281	1400 bar / 20300 psi			450 bar / 6500 psi		1200 bar / 17400 psi	380 bar / 5500 psi
Hole Tolerance	Ø 0.093 0 / +0.002 Inch from Ø 0.125 0 / +0.004 Inch						
Hole Roughness	R <sub>z</sub> 10 – 30 µm				Anchorage in Base Metal		

Series MB 700 mm	Base Material of the Installation						
	①	②	③	⑤	⑥	⑦	⑧
	ETG-100 / 44SMn28 AISI 1144	C15Pb / 1.0403 ~ SAE 1015 (10L15)	EN 1563: GJS-600-3 ASTM A536: 80-60-03	EN 1561: GJL-250 ASTM A48: NO.35	AlCu4Mg1 / EN AW-2024-T3 AA: 2024 T4/T6*	AlMgSiPb / EN AW-6012-T6 AA: 6012-T6	G-AISI7Mg / EN-AC-42100 ASTM/UNS: A356
Ø 3 – 10	1400 bar / 20300 psi			450 bar / 6500 psi		1200 bar / 17400 psi	380 bar / 5500 psi
Ø 12 – 22	1150 bar / 16700 psi			350 bar / 5100 psi		900 bar / 13000 psi	280 bar / 4100 psi
Hole Tolerance	0 / +0.1 mm						
Hole Roughness	R <sub>z</sub> 10 – 30 µm				Anchorage in Base Metal		

Series MB 850 mm	Base Material of the Installation						
	①	②	③	⑤	⑥	⑦	⑧
	ETG-100 / 44SMn28 AISI 1144	C15Pb / 1.0403 ~ SAE 1015 (10L15)	EN 1563: GJS-600-3 ASTM A536: 80-60-03	EN 1561: GJL-250 ASTM A48: NO.35	AlCu4Mg1 / EN AW-2024-T3 AA: 2024 T4/T6*	AlMgSiPb / EN AW-6012-T6 AA: 6012-T6	G-AISI7Mg / EN-AC-42100 ASTM/UNS: A356
Ø 3 – 10	1100 bar / 16000 psi			350 bar / 5100 psi		1000 bar / 14500 psi	320 bar / 4600 psi
Ø 12 – 22	900 bar / 13000 psi			280 bar / 4100 psi		800 bar / 11600 psi	250 bar / 3600 psi
Hole Tolerance	0 / +0.1 mm						
Hole Roughness	R <sub>z</sub> 10 – 30 µm				R <sub>z</sub> 10 – 30 µm	Anchorage in Base Metal	

Series CV 173 mm	Base Material of the Installation				
	①	③	④	⑥	⑧
	ETG-100 / 44SMn28 AISI 1144	EN 1563: GJS-600-3 ASTM A536: 80-60-03	EN 1563: GJS-450-10 ASTM A536: 65-45-12	AlCu4Mg1 / EN AW-2024-T3 AA: 2024 T4/T6*	G-AISI7Mg / EN-AC-42100 ASTM/UNS: A356
Ø 3 – 10				650 bar / 9400 psi 210 bar / 3000 psi	
Ø 12				300 bar / 4300 psi 100 bar / 1500 psi	
Hole Tolerance	0 / +0.1 mm				
Hole Roughness	R <sub>z</sub> 10 – 30 µm			Anchorage in Base Material	

Series CV 588 mm	Base Material of the Installation				
	①	③	④	⑥	⑧
	ETG-100 / 44SMn28 AISI 1144	EN 1563: GJS-600-3 ASTM A536: 80-60-03	EN 1563: GJS-450-10 ASTM A536: 65-45-12	AlCu4Mg1 / EN AW-2024-T3 AA: 2024 T4/T6*	G-AISI7Mg / EN-AC-42100 ASTM/UNS: A356
Ø 4 – 9		1000 bar / 14500 psi	350 bar / 5000 psi		
Ø 10		860 bar / 12500 psi	280 bar / 4000 psi		
Hole Tolerance	0 / +0.1 mm				
Hole Roughness	R <sub>z</sub> 10 – 30 µm			Anchorage in Base Material	

Proof Pressure Test® Max. Allowable Working Pressure = Nominal Pressure \*SFC KOENIG's North American Engineering Department utilizes 2024-T4/T6 as a test base material. See Anchorage Principle related to the base materials on page 76.