

METI scope for approved testers

Approval Number MAB-460-N-7
 Equipment Type Valves
 Approval Date 2012/6/28

Approved Tester Swagelok - Lennon Drive 1
 Address 29495 F.A. Lennon Drive, Solon, Ohio 44139 USA

Name of Rules, Clause and Section	【Approved Range】									
	Valve Type	Material		Design Temperature		Design Pressure (MPa)	End Connection Size (A)	Other Comments		
		Classification	Group	Highest (°C)	Lowest (°C)					
<u>General High Pressure Gas Safety Rules</u> Clause 6 Part 1 Section 11 12 13 43 Item ホ(ho) and へ(he) Clause 40 Section 4 Item へ(he) Clause 55 Part 1 Section 7 8 <u>Liquefied Petroleum Gas Safety Rules</u> Clause 6 Part 1 Section 17 18 19 36 Item ホ(ho) and へ(he) Clause 41 Section 4 Item へ(he) Clause 53 Part 1 Section 6 9 <u>Industrial Complex and Other Facilities Safety Rules</u> Clause 5 Part 1 Section 17 18 19 Clause 9 Section 5 6	Globe	Stainless Steel	G1	400	-196	88.3 and under	40 and under	Welded Construction Excluded		
						17.2 and under	25 and under	—		
			G4	800	-269	88.3 and under	40 and under	Welded Construction Excluded		
						17.2 and under	25 and under	—		
			G6	800	-196	88.3 and under	40 and under	Welded Construction Excluded		
						17.2 and under	25 and under	—		
			Brass	G1	225	-196	20.6 and under	15 and under	Welded Construction Excluded	
			Corrosion-Resistant, Heat-Resistant Alloys	G2	350	-30	24.6 and under	8 and under		
			Ball	Stainless Steel	G1	400	-196	41.2 and under	40 and under	Welded Construction Excluded
					G4	800	-269			
G6	800				-196					
Brass	G1			225	-196	20.6 and under	15 and under			
	G1					15.3 and under	40 and under			
Steel	G4			450	-10	3.8 and under	40 and under			

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<u>General High Pressure Gas Safety Rules</u> Clause 6 Part 1 Section 11 12 13 43 Item ホ(ho) and へ(he)	Plug	Stainless Steel	G1	400	-196	8.9 and under	15 and under	Welded Construction Excluded
			G4	800	-269			
			G6	800	-196			
Clause 40 Section 4 Item へ(he) Clause 55 Part 1 Section 7 8 <u>Liquefied Petroleum Gas Safety Rules</u> Clause 6 Part 1 Section 17 18 19 36 Item ホ(ho) and へ(he) Clause 41 Section 4 Item へ(he) Clause 53 Part 1 Section 6 9	Check (Spring Type)	Stainless Steel	G1	400	-196	33.4 and under	25 and under	Welded Construction Excluded
			G4	800	-269	19.8 and under	40 and under	—
			G6	800	-196	33.4 and under	25 and under	Welded Construction Excluded
			G4	800	-269	19.8 and under	40 and under	—
			G6	800	-196	33.4 and under	25 and under	Welded Construction Excluded
			G4	800	-269	19.8 and under	40 and under	—
<u>Industrial Complex and Other Facilities Safety Rules</u> Clause 5 Part 1 Section 17 18 19 Clause 9 Section 5 6	Check (Lifting Type)	Stainless Steel	G1	400	-196	35.4 and under	25 and under	Welded Construction Excluded
			G4	800	-269			
			G6	800	-196			

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		Classification	Group	Highest (°C)	Lowest (°C)			
<u>General High Pressure Gas Safety Rules</u> Clause 6 Part 1 Section 11 12 13 43 Item ホ(ho) and へ(he) Clause 40 Section 4 Item へ(he) Clause 55 Part 1 Section 7 8 <u>Liquefied Petroleum Gas Safety Rules</u> Clause 6 Part 1 Section 17 18 19 36 Item ホ(ho) and へ(he) Clause 41 Section 4 Item へ(he) Clause 53 Part 1 Section 6 9 <u>Industrial Complex and Other Facilities Safety Rules</u> Clause 5 Part 1 Section 17 18 19 Clause 9 Section 5 6	Others (Rising Plug)	Stainless Steel	G1	400	-196	14.8 and under	20 and under	Welded Construction Excluded
			G4	800	-269			
			G6	800	-196			
	Others (2-valve Manifolds)	Stainless Steel	G1	400	-196	32.4 and under	40 and under	
			G4	800	-269			
			G6	800	-196			
	Others (3-valve Manifolds)	Stainless Steel	G1	400	-196	23.6 and under	40 and under	
			G4	800	-269			
			G6	800	-196			
	Others (pressure regulators)	Stainless Steel	G1	400	-196	24.8 and under	40 and under	
			G4	800	-269			
			G6	800	-196			
Other Type (Metal Diaphragm Valves)	Stainless Steel	G1	400	-196	16.2 and under	25 and under	—	
		G4	800	-269				
		G6	800	-196				

METI scope for approved testers

Approval Number MAB-460-N- II -1
 Equipment Type Fittings
 Approval Date 2012/6/28

Approved Tester Swagelok - Lennon Drive 1
 Address 29495 F.A. Lennon Drive, Solon, Ohio 44139 USA

Name of Rules, Clause and Section	【Approved Range】								
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		Classification	Group	Highest (°C)	Lowest (°C)				
<u>General High Pressure Gas Safety Rules</u> Clause 6 Part 1 Section 11 12 13 43 Item ホ(ho) and へ(he) Clause 40 Section 4 Item へ(he) Clause 55 Part 1 Section 7 8 <u>Liquefied Petroleum Gas Safety Rules</u> Clause 6 Part 1 Section 17 18 19 36 Item ホ(ho) and へ(he) Clause 41 Section 4 Item へ(he) Clause 53 Part 1 Section 6 9 <u>Industrial Complex and Other Facilities Safety Rules</u> Clause 5 Part 1 Section 17 18 19 Clause 9 Section 5 6	2-Ring Compressing Type	Stainless Steel	G1	400	-196	58.9 and under	10 and under	Welded Construction Excluded	
						34.4 and under	10 and under	—	
			G4	800	-269	58.9 and under	10 and under	Welded Construction Excluded	
						34.4 and under	10 and under	—	
			G6	800	-196	58.9 and under	10 and under	Welded Construction Excluded	
						34.4 and under	10 and under	—	
		Corrosion-Resistant, Heat-Resistant Alloys	G2	350	-30	24.6 and under	10 and under	Welded Construction Excluded	
		Metal Gasket Type	Stainless Steel	G1	400	-196	21.6 and under	25 and under	—
						-269			
						-196			
		O-Ring Type	Stainless Steel	G1	400	-196	19.7 and under	25 and under	
						-269			
					-196				

METI scope for approved testers

Approval Number MAB-460-O-1
 Equipment Type Other Accessories
 Approval Date 2012/6/28

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			G4	800	-269			
			G6	800	-196			
			Corrosion-Resistant, Heat-Resistant Alloys	G2	350	-30	13.0 and under	25 and under