Approval Number MAB-460-N-7 Approved Tester Swagelok - Lennon Drive 1

Equipment Type Valves Address 29495 F.A. Lennon Drive, Solon, Ohio 44139 USA

2012/6/28

	[Approved Range]								
Name of Rules, Clause and Section	Valve Type	Material		Design Temperature		Design Pressure	End Connection Size	Other Comments	
	valve Type	Classification	Group	Highest (°C)	Lowest (°C)	(MPa)	(A)	Other Comments	
General High Pressure Gas Safety Rules Clause 6		Stainless Steel	G1	400	-196	88.3 and under	40 and under	Welded Construction Excluded	
Part 1 Section 11						17.2 and under	25 and under	_	
12 13 43 Item ホ(ho) and へ(he) Clause 40			G4	800	-269	88.3 and under	40 and under	Welded Construction Excluded	
Section 4 Item ^(he)						17.2 and under	25 and under	_	
Clause 55 Part 1 Section 7 8 Liquefied Petroleum Gas Safety Rules	Globe		G6	800	-196	88.3 and under	40 and under	Welded Construction Excluded	
Clause 6						17.2 and under	25 and under	_	
Part 1 Section 17 18 19		Brass	G1	225	-196	20.6 and under	15 and under	Welded	
36 Item ホ(ho) and へ(he) Clause 41 Section 4 Item へ(he)		Corrosion-Resistant, Heat-Resistant Alloys	G2	350	-30	24.6 and under	8 and under	Construction Excluded	
Clause 53 Part 1 Section 6		Stainless Steel	G1	400	-196	41.2 and under	40 and under	Welded Construction Excluded	
9 Industrial Complex and Other Facilities Safety Rules			G4	800	-269				
Clause 5 Part 1 Section 17	Ball		G6	800	-196				
18 19		Brass	G1	005		20.6 and under	15 and under		
Clause 9 Section 5			G1	225	-196	15.3 and under	40 and under		
6		Steel	G4	450	-10	3.8 and under	40 and under		

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Name of Rules, Clause and Section	[Approved Range]								
	Valve Type	Material		Design Temperature		Design Pressure	End Connection Size	Other Comments	
	valve Type	Classification	Group	Highest (°C)	Lowest (°C)	(MPa)	(A)	Other Comments	
General High Pressure Gas Safety Rules	Plug	Stainless Steel	G1	400	-196	8.9 and under	15 and under	Welded Construction Excluded	
Clause 6 Part 1 Section 11			G4	800	-269				
12 13			G6	800	-196				
43 Item ホ(ho) and へ(he) Clause 40 Section 4 Item へ(he)			G1	400	-196	33.4 and under	25 and under	Welded Construction Excluded	
Clause 55 Part 1 Section 7						19.8 and under	40 and under	_	
B <u>Liquefied Petroleum Gas Safety Rules</u> Clause 6	Check (Spring Type)	Stainless Steel	G4	800	-269	33.4 and under	25 and under	Welded Construction Excluded	
Part 1 Section 17	(Opining Type /					19.8 and under	40 and under	_	
19 36 Item ホ(ho) and へ(he) Clause 41			G6	800	-196	33.4 and under	25 and under	Welded Construction Excluded	
Section 4 Item ^(he) Clause 53						19.8 and under	40 and under	_	
Part 1 Section 6			G1	400	-196	35.4 and under	25 and under	Welded Construction	
9 Industrial Complex and Other Facilities Safety Rules	Check (Lifting Type)	Stainless Steel	G4	800	-269				
Clause 5 Part 1 Section 17			G6	800	-196			Excluded	
18 19 Clause 9 Section 5 6					•				

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2012/6/28

	[Approved Range]							
Name of Rules, Clause and Section	Valve Type	Material		Design Temperature		Design Pressure	End Connection Size	Other Comments
		Classification	Group	Highest (°C)	Lowest (°C)	(MPa)	(A)	Other Comments
General High Pressure Gas Safety Rules	Others (Rising Plug)	Stainless Steel	G1	400	-196	14.8 and under	20 and under	Welded Construction Excluded
Clause 6 Part 1 Section 11			G4	800	-269			
12 13			G6	800	-196			
43 Item 木(ho) and ヘ(he) Clause 40	Others		G1	400	-196		40 and under	
Section 4 Item ^(he) Clause 55 Part 1 Section 7	(2-valve Manifolds)	Stainless Steel	G4	800	-269	32.4 and under		
8 Liquefied Petroleum Gas Safety Rules	iviariiioid3)		G6	800	-196			
Clause 6 Part 1 Section 17	Others (3-valve Manifolds)	valve Stainless Steel	G1	400	-196	23.6 and under	40 and under	
18 19			G4	800	-269			
36 Item 木(ho) and ヘ(he) Clause 41	a.me.ae,		G6	800	-196			
Section 4 Item ^(he) Clause 53 Part 1 Section 6	Othoro	Others (pressure Stainless Steel regulators)	G1	400	-196	24.8 and under	40 and under	
9 Industrial Complex and Other Facilities Safety Rules	(pressure		G4	800	-269			
Clause 5 Part 1 Section 17	Other Type (Metal Diaphragm Valves)		G6	800	-196			
18 19		(Metal Stainless Steel	G1	400	-196	16.2 and under	25 and under	
Clause 9 Section 5 6			G4	800	-269			_
O			G6	800	-196			

Approval Number MAB-460-N-II-1 Approved Tester Swagelok - Lennon Drive 1

Equipment Type Approval Date 2012/6/28

Approval Date MAB-460-N-II-1 Approved Tester Swagelok - Lennon Drive 1

29495 F.A. Lennon Drive, Solon, Ohio 44139 USA

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

Approval Number MAB-460-O-1 Approved Tester Swagelok - Lennon Drive 1

Equipment Type Approval Date Accessories Address 29495 F.A. Lennon Drive, Solon, Ohio 44139 USA

2012/6/28

	[Approved Range]								
Name of Rules, Clause and Section	Valve Type	Material		Design Temperature		Design Pressure	End Connection Size	Other Comments	
		Classification	Group	Highest (°C)	Lowest (°C)	(MPa)	(A)	Other Comments	
Constal High Drassure Cos Cofety Dules			G1	400	-196				
General High Pressure Gas Safety Rules Clause 6 Part 1 Section 11 12		Stainless Steel	G4	800	-269	31.0 and under	40 and under	_	
13 43 Item ホ(ho) and へ(he) Clause 40	Strainer		G6	800	-196				
Section 4 Item ^(he) Clause 55 Part 1 Section 7 8 Liquefied Petroleum Gas Safety Rules		Corrosion-Resistant, Heat-Resistant Alloys	G2	350	-30	13.0 and under	25 and under	Welded Construction Excluded	
Clause 6 Part 1 Section 17 18 19 36 Item 木(ho) and ^(he) Clause 41 Section 4 Item ^(he) Clause 53 Part 1 Section 6 9 Industrial Complex and Other Facilities Safety Rules Clause 5 Part 1 Section 17 18 19 Clause 9 Section 5 6									