



Sub-Vendor:	Vendor:	Hydrostatic test & performance procedure for general valve	Contractor:	Owner/Purchaser:
	 Arya Mabna Payesh Company			
	Vendors Doc. No.:	Rev. :00		

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1 Pressure test

1.1 Scope

Inspection shall be in accordance with API 598. Examination by the manufacturer shall be as specified in API 598.

1.2 General

1.2.1 Valves designed to permit emergency or supplemental introduction of an injectable sealant to the seat area shall be tested with the injection system empty and not in use, except for lubricated plug valves.

1.2.2 When a liquid is used as the test fluid, the valve shall be essentially free from trapped air during the test.

1.2.3 Required protective coatings, such as paint, which can mask surface defects, shall not be applied to any surface before inspection or pressure testing. (Phosphatizing and similar chemical conversion processes used to protect valve surfaces are acceptable even if applied before the tests, provided that they will not seal off porosity.)

1.2.4 When closure testing valves, the valve manufacturer's test procedure shall ensure that excessive force is not used to close the valve. The applied force may be determined from the appropriate figures in MSS SP-91[12] and shall be made available to the purchaser or testing facility upon request. The use of a supplemental leveraging device to aid in achieving a passing leakage rate is acceptable provided that the applied force does not exceed the manufacturer's documented value. Where the manufacturer does not document or otherwise make available the maximum permissible force for valve closure, the test procedure shall restrict the use of supplemental leveraging devices.

1.3 Test location

Pressure test perform in the shop valve manufacturer.

1.4 Test equipment

The equipment used to perform the required pressure test shall not apply external forces that affect seat leakage.

1.5 Test required

The pressure tests listed in Table 1 shall be performed on each valve in accordance with written procedures that comply with this standard.


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Table1 REQUIRED ORESSURE TEST

Test Description	Size	ASME Class	Valve Type					
			Gate	Globe and Parallel Slide Gate	Plug	Check	Floating Ball	Butterfly and Trunnion Mounted Ball
Shell	All	All	Required	Required	Required	Required	Required	Required
Backseat ^a	All	All	Required	Required	NA	NA	NA	NA
Low-pressure closure	DN (NPS) ≤ DN 100 (NPS 4)	Class ≤ 1500	Required	Optional ^b	Required ^f	Optional ^b	Required	Required
		Class > 1500	Optional ^b		Optional ^b			Optional ^b
	DN (NPS) > DN 100 (NPS 4)	Class ≤ 600	Required		Required ^f			Required
		Class > 600	Optional ^b		Optional ^b			Optional ^b
High-pressure closure ^c	DN (NPS) ≤ DN 100 (NPS 4)	Class ≤ 1500	Optional ^{b*}	Required ^d	Optional ^{b**f}	Required	Optional ^{b**}	Optional ^{b**}
		Class > 1500	Required		Required			Required
	DN (NPS) > DN 100 (NPS 4)	Class ≤ 600	Optional ^{b*}		Optional ^{b**f}			Optional ^{b**}
		Class > 600	Required		Required			Required

NA Not applicable

^a The backseat test is required for all valves that have the backseat feature, except for bellows seal valves.


^b When an "optional" test is specified by the purchaser, the test shall be performed in addition to the required tests.

^c The high-pressure closure test of resilient-seated valves may degrade subsequent sealing performance in low-pressure service.

^d For power-operated and manually operated gear actuated globe valves, including nonreturn type globe valves, the high-pressure closure test shall be performed at 110 % of the design differential pressure used for sizing of the operator.

^e A high-pressure closure test is required for all valves specified to be double block and bleed (DBB) valves, unless specified otherwise by the purchaser.

^f For lubricated plug valves, the high-pressure closure test is mandatory and the low-pressure closure test is optional.


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1.6 High & low-pressure Closure Test


1.6.1 Material selection is according to (table2).

Table2 MATERIAL

L	ASME D16.34 GROUP	Material		
1	3.3	B 160 Gr. No.2201	B 162 Gr.2201	
2	3.2	B 160 Gr. No.2200	B 161 Gr. No. 2200	B 162 Gr. NO. 2200
		B 163 Gr. No.2200		
3	1.6	A 355 Gr. P1	A 387 Gr. 12CL.1	A 387 Gr.2CL.2
		A 691 Gr.1/2 CR	A 369 Gr. FP1	A 387 Gr. 2CL.1
4	2.3	A 182 Gr. F 304 L	A 240 Gr. 304 L	A 312 Gr. TP 304L
		A 479 Gr. 304 L	A 182 Gr. 316L	A 240 Gr. 316L
		A 312 Gr. TP 316 L	A 479 Gr. 316 L	
	3.1	A 351 Gr. CN 7M	B 463 Gr. NO. 8020	B 468 Gr. NO. 8020
B 473 Gr. NO. 8020		B 462 Gr. NO.8020	B 464 Gr. NO. 8020	
3.4	B 127 Gr. NO 4400	B 164 Gr. NO 4400	B 165 Gr. NO 4400	
	B 564 Gr. NO 4400	B 163 Gr. NO 4400	B 164 Gr. NO 4400	
3.15	B 407 Gr. NO 8810	B 408 Gr. NO 8810	B 409 Gr. NO 8810	
	B 564 Gr. NO 8810	A 494 Gr. N- 12 MV	A 494 Gr. CW 12 MV	
5	1.4	A 106 Gr. B	A 515 Gr. 60	A 675 Gr. 60
		A 672 Gr. B 60	A 350 Gr. LF 1	A 516 Gr. 60
		A 696 Gr. B	A 672 Gr. C 60	
	1.8	A 335 Gr. P11	A 369 Gr. FP 11	A 387 Gr. 11CL.1
		A 691 Gr. 1CR	A 335 Gr. P12	A 369 Gr. FP 12
		A 387 Gr. 12CL.2	A 691 Gr. 1 1/2 CR	A 335 Gr. PSB
		A 369 Gr. FP 22	A 387 Gr. 22 CL.1	A 691 Gr. 2 1/2 CR
	1.12	A 355 Gr. PS	A 369 Gr. FPS	A 387 Gr. 5CL.2
		A 691 Gr. 5 CR	A 335 Gr. PSB	A 387 Gr. CL.1
	6	3.11	B 625 Gr. NO 8904	B 649 Gr. NO 8904
7	2.6	A 240 Gr. 309S	A 351 Gr. CH 8	A 351 Gr. CH 20
		A 358 Gr. 309H	A 312 Gr. TP 309H	A 240 Gr. 309H
	2.7	A 182 Gr. F 310H	A 312 Gr. TP 310H	A 358 Gr.310H
		A 479 Gr. 310S	A 240 Gr. 310S	A 351 Gr. CK 20
		A 240 Gr. 310H	A 479 Gr. 310H	
	2.12	B 581 Gr. NO 6985	B 582 Gr. NO 6985	B 620 Gr. NO 8320
B 622 Gr. NO 6985		B 622 Gr. NO 8320	B 621 Gr. NO 8320	
8	1.3	A 672 Gr. B 62	A 515 Gr. 65	A 675 GR. 65
		A 203 Gr. A	A 352 Gr. LCB	A 672 Gr. C 65
	1.5	A 182 Gr. F1	A 204 Gr. A	A 518 Gr. 65
		A 691 Gr. CM-70	A 204 Gr. A	A 352 Gr. LC 1
			A 217 Gr. WC 1	

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9	2.1	A 182 Gr. F 304	A 132 Gr. TP 304	A 385 Gr. 304	
		A 430 Gr. FP 304 H	A 182 Gr. F 304 H	A 312 Gr. 304 H	
		A 376 Gr. TP 304	A 479 Gr. 304	A 240 Gr. 304	
		A 351 Gr. CF3	A 376 Gr. TP 304 H	A 479 Gr. 304 H	
		A 240 Gr. 304 H	A 351 Gr. CF 8	A 430 Gr. FP 304	
	2.2	A 182 Gr. F 316	A 312 Gr. TP 316	A 351 Gr. CF 814	
		A 430 Gr. FP 316	A 182 Gr. F 316 H	A 312 Gr. TP 316 H	
		A 351 Gr. CF 8M	A 430 Gr. FP 316 H	A 240 Gr. 316	
		A 312 Gr. TP 317	A 358 Gr. 316	A 479 Gr. 316	
		A 240 Gr. 316 H	A 351 Gr. CF3 A	A 376 Gr. TP 316	
		A 479 Gr. 316 H	A 240 Gr. 317	A 351 Gr. CF3M	
	2.4	A 182 Gr. F 321	A 312 Gr. TP 321	A 376 Gr. TP 321	
		A 430 Gr. FP 321	A 182 Gr. F 321 H	A 312 Gr. TP 321 H	
		A 376 Gr. TP 321H	A 479 Gr. 321	A 420 Gr. 321	
A 240 Gr. 321 H		A 479 Gr. 321 H	A 430 Gr. FP 321		
A 358 Gr. 321		A 358 Gr. 321	A 358 Gr. 321		
2.5	A 182 Gr. F 347	A 240 Gr. 348	A 351 Gr. CF8C		
	A 430 Gr. FP 347	A 182 Gr. F 347 H	A 240 Gr. 348 H		
	A 358 Gr. 347	A 430 Gr. FP 347 H	A 182 Gr. F 348		
	A 312 Gr. TP 347	A 376 Gr. TP 347	A 479 Gr. 347		
	A 182 Gr. F 348 H	A 312 Gr. TP 347	A 376 Gr. TP 347 H		
	A 479 Gr. 347 H	A 240 Gr. 347	A 312 Gr. TP 348		
	A 376 Gr. TP 348	A 479 Gr. 348	A 240 Gr. 347 H		
3.6	B 564 Gr. NO 8800 B 409 Gr. NO 8800 B 408 Gr. NO 8800 B 163 Gr. NO 8800				
3.10	B 599 Gr. NO 8700 B 672 Gr. NO 8700				
3.14	B 581 Gr. NO 6007 B 582 Gr. NO 6007 B 622 Gr. NO 6007				
3.16	B 511 Gr. NO 8330 B 535 Gr. NO 8330 B 536 Gr. NO 8330				
10	1.1	A 105 / A 515 Gr. 70	A 675 Gr. 70	A 672 Gr. B70	
		A 216 Gr. WCB	A 516 GR. 70	A 696 Gr. C	
		A 672 Gr. C70	A 350 GR. LF2	A 537 CL. 1	
11	1.2	A 106 Gr. C	A 203 Gr. B	A 350 Gr. LF3	
		A 352 Gr. LC3	A 203 Gr. B	A 216 Gr. WCC	
		A 352 Gr. LC2	A 352 Gr. LC3		
	1.7	A 691 Gr. CM-75	A 204 Gr. CC	A 217 Gr. WC4	
		A 217 Gr. WC5	A 182 Gr. F2		
	1.9	A 182 Gr. F 14 CL.2	A 217 Gr. WC6	A 387 Gr. 11 CL.2	
		A 739 Gr. B 11	A 182 Gr. F 12 CL.2		
	1.10	A 182 Gr. F 22 CL.3	A 217 Gr. WC9	A 387 Gr. 22 CL.2	
	1.11	A 182 Gr. F21	A 302 Gr. B	A 302 Gr. D	
		A 537 CL. 2	A 302 Gr. A	A 302 Gr. C	
	1.13	A 182 Gr. F5	A 182 Gr. F5A	A 217 Gr. C5	
	1.14	A 182 Gr. F9	A 217 Gr. C12		
	2.8	A 182 Gr. F44	A 182 GR. F53	A 240 GR. S31254	A 351 GR. CK3MCUN
		A 182 Gr. F51	A 240 GR. S31803	A 240 GR. S32750	
A 479 Gr. S31254		A 479 GR. S 31803	A 479 GR. S 32750		
A 312 Gr. S31254		A 789 GR. S 31803	A 789 GR. S 32750		
A 358 Gr. S31254		A 790 GR. S 31803	A 790 GR. S 31750		
3.5	B 163 Gr. NO 6600	B 167 GR. NO 6600	B 564 GR. NO 6600		
	B 166 Gr. NO 6600				
3.7	B 333 Gr. NO 10665	B 355 Gr. NO 10665	B 622 Gr. NO 10665		
3.8	B 333 Gr. NO 10001	B 434 Gr. NO 10003	B 564 Gr. NO 10276	B 375 Gr. NO 10276	
	B 335 Gr. NO 10001	B 443 Gr. NO 6625	B 571 Gr. NO 10003	B 622 Gr. NO 6455	
	B 423 Gr. NO 8825	B 446 Gr. NO 6625	B 574 Gr. NO 6455B	B 622 Gr. NO 10001	
	B 424 Gr. NO 8825	B 564 Gr. NO 6625	B 574 Gr. NO 10276	B 622 Gr. NO 10276	
	B 425 Gr. NO 8825	B 364 Gr. NO 8825	B 575 Gr. NO 6455		
3.9	B 433 Gr. NO 6002	B 372 Gr. NO 6002	B 622 Gr. NO 6002		
3.13	B 564 Gr. NO 8031	B 581 Gr. NO 6975	B 582 Gr. NO 6975	B 622 Gr. NO 6975	
	B 625 Gr. NO 8031	B 622 Gr. NO 8031	B 649 Gr. NO 8031		

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1.6.2 The high and low-pressure closure test for all ball valves (see Table3.)

1.7 Test fluid

1.7.1 For shell, high-pressure closure tests, the test fluid shall be air and water liquid, the test fluid temperature shall be within the range 5°C to 40°C.


1.7.2 For the low-pressure test fluid shall be air or inert gas.

1.7.3 For testing of austenitic stainless steel valves, water with chloride content not exceeding 50 ppm shall be used.

Table3 pressure test

PNBC	Class	Class 100				Class 150				Class 200				Class 250			
		Shell test		Leakage test		Shell test		Leakage test		Shell test		Leakage test		Shell test		Leakage test	
		Pa Bar	Pu Bar	Pa Bar	Pu Bar	Pa Bar	Pu Bar	Pa Bar	Pu Bar	Pa Bar	Pu Bar	Pa Bar	Pu Bar	Pa Bar	Pu Bar	Pa Bar	Pu Bar
1	API 598 ASME B 16.34	150 10	100 7	275 20	275 19	375 27	375 27	475 34	475 34	575 41	575 41	675 48	675 48	775 56	775 56	875 63	875 63
	API 6D	425 30	300 21	1100 76	900 65	1600 113	1400 100	2200 155	2000 142	3000 211	2800 197	4000 279	3800 267	5000 353	4800 339	6000 425	5800 411
2	API 598 ASME B 16.34	225 15	150 11	350 25	350 25	450 32	450 32	550 39	550 39	650 46	650 46	750 53	750 53	850 60	850 60	950 67	950 67
	API 6D	425 30	300 21	1100 76	900 65	1600 113	1400 100	2200 155	2000 142	3000 211	2800 197	4000 279	3800 267	5000 353	4800 339	6000 425	5800 411
3	API 598 ASME B 16.34	300 20	200 14	450 32	450 32	600 43	600 43	750 53	750 53	900 64	900 64	1050 75	1050 75	1200 86	1200 86	1350 97	1350 97
	API 6D	425 30	300 21	1100 76	900 65	1600 113	1400 100	2200 155	2000 142	3000 211	2800 197	4000 279	3800 267	5000 353	4800 339	6000 425	5800 411
4	API 598 ASME B 16.34	350 24	275 19	500 35	500 35	650 46	650 46	800 57	800 57	950 68	950 68	1100 79	1100 79	1250 90	1250 90	1400 101	1400 101
	API 6D	425 30	300 21	1100 76	900 65	1600 113	1400 100	2200 155	2000 142	3000 211	2800 197	4000 279	3800 267	5000 353	4800 339	6000 425	5800 411
5	API 598 ASME B 16.34	425 30	300 21	600 43	600 43	800 57	800 57	1000 72	1000 72	1200 86	1200 86	1400 101	1400 101	1600 113	1600 113	1800 128	1800 128
	API 6D	425 30	300 21	1100 76	900 65	1600 113	1400 100	2200 155	2000 142	3000 211	2800 197	4000 279	3800 267	5000 353	4800 339	6000 425	5800 411
6	API 598 ASME B 16.34	575 40	425 30	750 53	750 53	1000 72	1000 72	1300 93	1300 93	1600 113	1600 113	1900 136	1900 136	2200 155	2200 155	2500 177	2500 177
	API 6D	425 30	300 21	1100 76	900 65	1600 113	1400 100	2200 155	2000 142	3000 211	2800 197	4000 279	3800 267	5000 353	4800 339	6000 425	5800 411
7	API 598 ASME B 16.34	600 42	450 32	800 57	800 57	1050 75	1050 75	1350 97	1350 97	1650 118	1650 118	1950 140	1950 140	2250 161	2250 161	2550 183	2550 183
	API 6D	425 30	300 21	1100 76	900 65	1600 113	1400 100	2200 155	2000 142	3000 211	2800 197	4000 279	3800 267	5000 353	4800 339	6000 425	5800 411
8	API 598 ASME B 16.34	650 45	500 35	850 60	850 60	1100 79	1100 79	1400 101	1400 101	1700 122	1700 122	2000 142	2000 142	2300 164	2300 164	2600 186	2600 186
	API 6D	425 30	300 21	1100 76	900 65	1600 113	1400 100	2200 155	2000 142	3000 211	2800 197	4000 279	3800 267	5000 353	4800 339	6000 425	5800 411
9	API 598 ASME B 16.34	725 50	550 39	950 68	950 68	1250 90	1250 90	1550 111	1550 111	1850 133	1850 133	2150 154	2150 154	2450 175	2450 175	2750 197	2750 197
	API 6D	425 30	300 21	1100 76	900 65	1600 113	1400 100	2200 155	2000 142	3000 211	2800 197	4000 279	3800 267	5000 353	4800 339	6000 425	5800 411
10	API 598 ASME B 16.34	800 55	600 43	1000 72	1000 72	1300 93	1300 93	1600 113	1600 113	1900 136	1900 136	2200 155	2200 155	2500 177	2500 177	2800 197	2800 197
	API 6D	425 30	300 21	1100 76	900 65	1600 113	1400 100	2200 155	2000 142	3000 211	2800 197	4000 279	3800 267	5000 353	4800 339	6000 425	5800 411
11	API 598 ASME B 16.34	875 60	675 48	1100 79	1100 79	1400 101	1400 101	1700 122	1700 122	2000 142	2000 142	2300 164	2300 164	2600 186	2600 186	2900 207	2900 207
	API 6D	425 30	300 21	1100 76	900 65	1600 113	1400 100	2200 155	2000 142	3000 211	2800 197	4000 279	3800 267	5000 353	4800 339	6000 425	5800 411
12	API 598 ASME B 16.34	950 67	725 51	1200 86	1200 86	1500 107	1500 107	1800 128	1800 128	2100 149	2100 149	2400 171	2400 171	2700 192	2700 192	3000 213	3000 213
	API 6D	425 30	300 21	1100 76	900 65	1600 113	1400 100	2200 155	2000 142	3000 211	2800 197	4000 279	3800 267	5000 353	4800 339	6000 425	5800 411

Low pressure closure test		
VALVE	API 598	API 6D
All size and class	4.7 (bar) / 68.100 (psi)	1.5 ± 0.7 (bar) / 10 ± 10 (psi)

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1.8 Test Duration

For each type of test, the required test pressure shall be maintained for at least the minimum time specified in (Table 4).

Table4 DURATION 6

Valve size (NPS)	Shell test			Backseat test		Leakage test		
	API 598		API 6D	API 598	API 6D	API 598		API 6D
	Check valve	Other valves (API STD 594)				Check valve (API STD 594)	Other valves	
<2	60	15	-	15	-	60	15	-
2	60	15	120	15	120	60	15	120
2½ - 4	60	60	120	60	120	60	60	120
6	60	60	300	60	300	60	60	300
8-10	60	120	300	60	300	60	120	300
12	60	120	900	60	300	60	120	300
14-18	60	300	900	60	300	120	120	300
>20	60	300	1800	60	300	120	120	300

1.9 Test Leakage

1.9.1 For shell tests, visually detectable leakage through the pressure boundary walls and any fixed body joint is not permitted.


1.9.2 For both the low-pressure closure test and the high-pressure closure test, visual evidence of leakage through the disc, behind the seat rings, or past the shaft seals (of valves that have this feature) is not permitted and structural damage is not permitted. (Plastic [permanent] deformation of resilient seats and seals is not considered structural damage.) The allowable rate for leakage of test fluid at the seat-sealing surface interface, for the duration of the tests, is listed in (Table5.)

Table5 LEAKAGE

Valve size (NPS)	Shell test			Backseat test		Leakage test		
	API 598		API 6D	API 598	API 6D	API 598		API 6D
	Check valve	Other valves (API STD 594)				Check valve (API STD 594)	Other valves	
<2	60	15	-	15	-	60	15	-
2	60	15	120	15	120	60	15	120
2½ - 4	60	60	120	60	120	60	60	120
6	60	60	300	60	300	60	60	300
8-10	60	120	300	60	300	60	120	300
12	60	120	900	60	300	60	120	300
14-18	60	300	900	60	300	120	120	300
>20	60	300	1800	60	300	120	120	300

C: The maximum permissible leakage rate shall be 48 drop per minute per inch of nominal pipe size

D: The maximum permissible leakage rate shall be 1.5 standard cubic feet (0.042 cubic meters) of gas per hour per inch of nominal pipe size.

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1.10 cleaning after test

- Cleaning shell and flange
- Half opening of valve
- Cleaning with pressure air.

2 Repairs of Defects

2.1 Defects in the shell of a cast or forged, carbon or alloy steel valve that are revealed by inspection or testing shall be repaired as permitted by the most nearly applicable ASTM cast or forged material specification listed in ASME B16.34.

2.2 Excessive standard leakage is eliminated by re-lapping of ball with seats in to shop vendor.

3 Valve Certification and Retesting


3.1 Certificate of Compliance

When specified by the purchaser, the valve manufacturer shall submit to the purchaser a certificate of compliance as required in the purchase order or testing in the presence of the ordering agent.


3.2 Retesting

A completed valve does not require retesting unless inspection by the purchaser is specified in the purchase order. This retesting may be waived by the purchaser's inspector upon written certification by the manufacturer that the valve has been inspected, tested, and examined for conformance with the requirements of this standard.

Painted valves need not have paint removed for retesting. Stored valves shall be commercially cleaned before retesting and before shipment.

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THE PROCEDURE TESTS CERTIFICATE

Pressure tests certificat		ARYA MABNA PAYESH	
Valve Description :	Size and class :	QTY:	Date :
Order NO :	Contract NO :	TAG NO :	
Serial NO :	Drawing NO :		
tests	acceptance criteria	test results	comments
Hydrostatic shell test pressure _____ Duration _____ Body leak _____ Bonnet-cover leak _____ Stem leak _____		P = _____ bar t = _____ min OK OK OK	
Operational torque test Valve differential pressure _____ (Break to open case) Side A pressurized _____ Side B pressurized _____ Without pressure _____		ΔP = _____ bar _____ Nm _____ Nm _____ Nm	
High pressure closure test(water) Pressure _____ Duration _____ Side A _____ Side B _____		P = _____ bar t = _____ mn Leak rate: _____ Leak rate: _____	
Low pressure closure test(gas) Pressure _____ Duration _____ Side A _____ Side B _____		P = _____ bar t = _____ mn Leak rate: _____ Leak rate: _____	
High pressure closure test(gas) Pressure _____ Duration _____ Side A _____ Side B _____		P = _____ bar t = _____ mn Leak rate: _____ Leak rate: _____	
Satisfactory : Ok			
Manufacturer Inspection Name And signature :		Customer Inspection Name And signature :	
copies for : QC ,		DOC CODE :F11-P-QC-01/00	