Gate,Globe & Check Valves



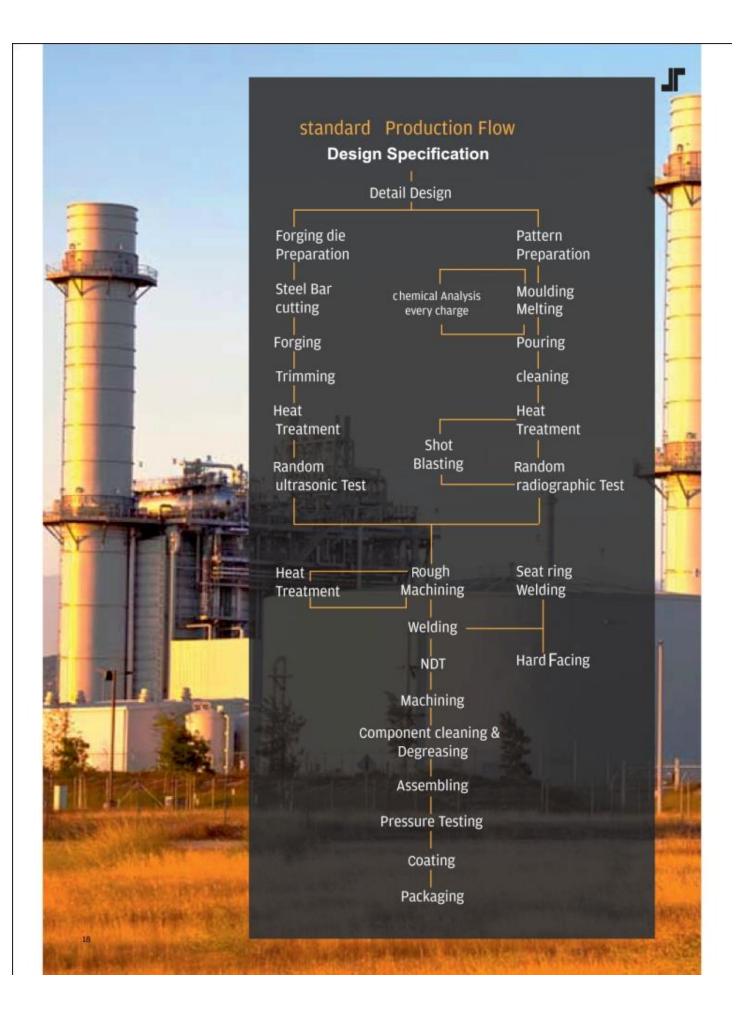












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> 15 DIMENSIONS







We make valves since 1998

The JR Industries, name has been synonymous with cast steel valves since 1998. we began a valve manufacturing business in Ahmedabad, India.

Now JR Industries supplies over Fifty Companies in India with a range of steel products for the oil and petrochemical markets.

The JR Industries range of steel Gate, Globe Check & Ball valves are produced to meet the demanding needs and high specification requirements of the oil, petrochemical and chemical markets.

Manufactured and tested to Exacting international quality standards including API 600, API 6D, BS 1865 and BS 1873 the range extends from 2" NB to 36" NB in ANSI Class 150, 1500 Lb in cast carbon steel ASTM A216WCB.

From our ISO 9001 accredited operation in ahmedabad. Gujarat, India are able to supply its worldwide customer base on a mainly ex-stock basis, whilst also offering the flexibility of modification to standard designs to include actuation, extension spindles etc.

Projects activity is handled by an inhouse project department where witness test, certification drawings and additional documentation is required A dedicated expediting department compliments the service given to our customers by providing delivery plans and ensuring timely despatch of product.

This catalogue provides basic dimensions and specification for ordering JR industries cast steel valves. The illustrations are of a particular size of each product line and do not necessarily represent all sizes in detail. The designs and materials may be varied in accordance with JR Industries policy of continuous improvement.

>> Market Sectors

JR Industries develops and designs valves for all applications, but the main focus is in oil & Gas, Chemical, Petrochemical, Pulp & Paper and Energy sectors.





Petrochemical





Pulp & Paper



Chemical



Energy



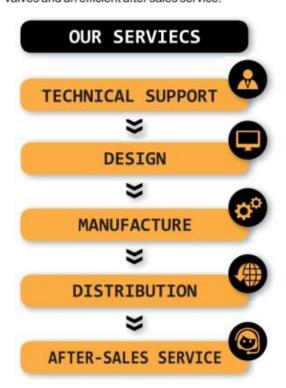




>> Our Services

JR Industries, offers its customers a world wide service, from technical advice to choose the right valve up to the design and manufacture of custom built valves to meet special service requirements.

Our R+D department is always ready to find solutions for severe applications and our global distribution network offers quick availability of JR valves and an efficient after sales service.



>> QUALITY ASSURANCE

J.R. Industries is committed for continual improvement in customer satisfaction by fulfills the requirements of customer with quality product and timely supply with adoption & continually improving quality managements system. J.R. Industries wants to be leader in the field of valves manufacturing by increasing sales and by developing more new products.

>> Environmental Certifications









>> QUALITY OBJECTIVES

- 1. TO achieve 100% on-time delivery.
- To achieve no defect in supplied product at customer's end.
- 3. To achieve 99% satisfaction of the customers.
- 4. To reduce customer complaint up to Zero.
- To provide at least one training to all the employees in this year

GATE VALVES

2" - 28" Class 150 - Class 600

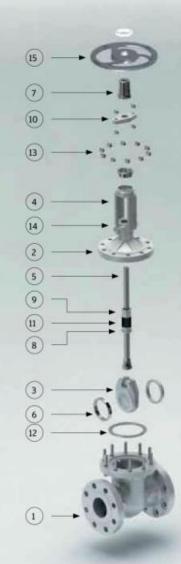
Gate Valves Serve as efficient on-off valves with flow in either direction. in such a design, a wedge slides cross a general passageway in order to control fluid flow (like a sliding gate - hence, the name) One of the most significant characteristic of this type of valves is its straight-through, unobstructed passageway when set in the full open position. This is made possible by the wedge lifting entirely out of the passageway. As a result, gate valves are characterized by a minimum of turbulence and pressure drop in operation.

While gate valves are good for applications requiring these two factors, they are not recommended for installation in which throttling would be a function. they are designed for on/off service.

BILL	OF MATERIALS	TRIM 8	TRIM 2	TRIM 8	TRIM 10	
tem	Description	Carbon Steel	Carbon Steel (Low Temp.)	Alloy Steel	Stainless Steel	Ī
1	Sudy.	A 216 Gr. WCB	A 252 Gr. LCB	A ZIT Gr. CS	A 351 Gr. CFSM	
2	Burnet	A 216 Gr. WCB	A 352 Gr. LCB	A 257 Gr. CS	A 352 Gr. CF8M	
	Wedge	A 216 Gr. WCB + ER450	A 352 Gr, LCB + ER308	A 257 Gr /CS + ER41,0	A 351 Gr. CF8W	
	Yorker	A 256 Gr. WCB	WANT CO-TCO	A 217 Gr. CS	A 351 Gr. CFSM	
5	Sten	A 182 Sr. Péa	A 182 Graph, F3D-6	A 182 Gr. FGa	A 182 Gr. F316	
	Seat Hing	A 305 + Stellite	A 182 Gr. F304	A 382 Gr. P64 + Stellte	_	
7	Stem Nut.	8148 / A 439 Gr. DZ	8148 / A 439 Gr. 02	8148 / A 439 Gr. DZ	8 148 / A 439 Gr. DZ	
	Backwest	A182 Gr. F6a	A182 Gr. F304	A 182 Gr. F6s		
	Clarkf	A 105	A105	A 182 Gr. Fola	A 182 Gr. F316	
10	Gland Flange	A 105	A 905	A 105	A 182 Gr. F304	
11	Stem Packing	Graphite	Graphite	Graphite	Graphite	
12	Sasket (Class (50)	SS304 / Graphite	95304 / Graphite	55304 / Graphite	553th / Graphite	
12	GasAut (Class 3001	Spw SS304 / Graphit e	Spw 55304 / Graphite	Spw SS304 / Graphite	Spw SS316 / Graphite	
12	Gasket (Class 600)	Spe 95304 / Graphite	Spw SS304 / Graphit e	Spw SS304 / Graphite	Spw SS316 / Graphite	
52	Gasket (Class 900)	RI 55304	RISS304	8155304	8/55316	
12	Canket (Class (500)	RJ 55304	RJ 55304	RJ 55304	RJ 55316	
12	Gasket (Class 25003	RI 55304	RI 55304	RJ 55304	R) 55316	
33	Bonnet Bolt & Nu t	A 193 Gr.87 / A 194 Gr.2H	A320 Gr. 17 / A194 Gr. 7	A 193 Gr,87 / A 194 Gr,2H	A193 Gr. 80 / A 194 Gr. 24	
34	Eye Balt & Nut	A 193 Gr.87 / A 194 Gr.2H	A 193 Gr. 87 / A 194 Gr. 2H	A 193 Gr.87 / A 194 Gr.2N	A 193 Gr.87 / A 194 Gr.34	
35	Handwheel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	

Standard construction with trim 6,2 and 30. Others constructions are available,





Application & Function

Gate Valves are primarily used for stop valves fully opened or fully closed they are not normally considered for throating purposes, but more for slurries, viscous fluids, etc.

Gate Valves are characterized by a traveling wedge, which is moved with the operation of the stem nut. The wedge travels perpendicular to the direction of the flow.

Gate valves usually have a minimum pressure drop when fully open, provide tight shut off when fully closed, and remain relatively free of contamination buildup

BODY & BONNET

the design of the body and bonnet is calculated to achieve the most regular distribution of stress in all directions, as well as the minimum turbulence and resistance to flow.

Valve bonnets are equipped with a backseat bushing. The yokes is integrally cast on Pressure Classes 150 and 300 up to 12" and up to 10" on class 600 and higher ratings.

BODY-BONNET JOINT

Standard body-bonnet joints of gate valves are machined as follows:

PRESSURE CLASS	JOINT DESIGN
150	Flat Faced
300,600	Male-and Female
900* & Over	Ring Type Joint

^{*} Pressure Class 600 also available in Ring Type joint

JR can supply any style of gasket required by customer.

FLEXIBLE GATE

All JR gate valves 3 and above valves feature a flexible wedge unless otherwise specified by the customer. The flexible gate shifts along the body of the valve during opening and closing, being held in position by a guide slot that minimizes the friction between body seat and gate. This design is especially suited to compensate slight thermal deformations produced by the pipe or the valve it self safeguarding a better sealing between body and gate seats.

STEM

The steam of JR gate valves are forged from one piece and ACME

threaded, then mechanized and finally provided with a smooth finishing in order to minimize friction.

in gate valves, the union of stem and wedge shall be in T form, designed to prevent the stem disengaging it self from the gate while being in service. This design includes a conical raised surface that presses the seat against the bonnet backseat in the fully open position.

BACKSEAT

All JR gate and globe valves have backseat threaded in the bonnet, or for the pressure seal valves, welded to the bonnet, into pressure seal the hard facing is Stellite 6 or equivalent.

DESIGN STANDARDS		TEST / INSPECTION ME	TEST / INSPECTION METHODS & ACCEPTANCE CRITERIA			
Bolted Bonnet Gase Valve	API 600/750 10434 & ASME 816.34	TEST / INSPECTION	METHOD	ACCEPTANCE CRITERIA		
Pressure Seal Gate Valve (Long & Short pattern)	ASME 816.34	Visual Inspection		MSS SP-SS		
API 603 Gate Valve	API 603	Marking		MSS SP-25 & ISOS208		
Through Conduit Gate Valve	API 60	Dimensional Inspection		Aglicable valve		
Cryogenic Gate	AFI 600 / 85 1873 & 85 6364	Chemical Analysis	ASTM E350	Aplicable Standard		
Face to Face / End to End Dimensions	ASME 816-30 / 190 5752	Mechanical Properties	ASTM A370	Aplicable Standard		
End Flanged dimensions	ASME BLLS / ISO 7005-1, ASME BLG.47 A&B,MSS SP- 44 & API 605	Li uid Penetrant Inspection	ASTM A165	ASME 816.34		
Butt-weld End dimensions	ASME BILLES	Magnetic Particle Inspection	ASTM E709	ASME 816.34		
Valve inspection & testing	API 600 / ISO 10434 & ISO 5208, EN 17266	Radiographic Inspection	ASME 816.34	ASME 816.34		
Pressure - Temperature rating	ressure - Temperature rating ASME 010.34		ASTM A388	ASIA9916/\$0 5208		
	The same of the	Pressure Testing	API 598 / ISO 5208			



Class 150 Gate Valve

OS & Y, Rising Stem, Flexible solid wedge, Bolted Bonnet, Threaded or Welded Seat Ring

Standard Compliance:

Basic Design: API 600

Face to Face Dimension : ANSI B16.10 End to End Dimension : ANSI B16.10

End Flange Dimension:

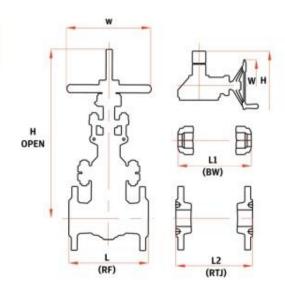
2"-24" to ANSI B 16.5 26"-36" to MSS SP-44

to API 605 on request

B.W. Ends to ANSI B.16.25 Shell Wall Thickness

2"-24" to API 600

26"-36" to manufacturers standard



TEST PRESSURE TO API 598

Body Material	Shell Test (Hydrostatic)	Seat Test (Hydrostatic)	Seat Test (Air)
WCB	450 psig	325 psig	80 psig
WC6	450 psig	319 psig	80 psig
CF8M	425 psig	303 psig	80 psig

Class 300 Gate Valve

OS & Y, Rising Stem, Flexible solid wedge, Bolted Bonnet, Threaded or Welded Seat Ring

Standard Compliance:

Basic Design: API 600

Face to Face Dimension : ANSI B16.10 End to End Dimension : ANSI B16.10

End Flange Dimension:

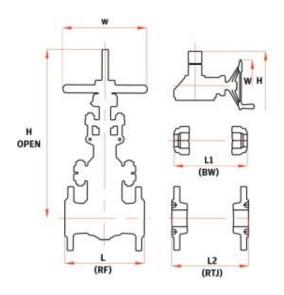
2"-24" to ANSI B 16.5 26"-36" to MSS SP-44

to API 605 on request

B.W. Ends to ANSI B.16.25 Shell Wall Thickness

2"-24" to API 600

26"-36" to manufacturers standard



TEST PRESSURE TO API 598

Body Material	Shell Test (Hydrostatic)	Seat Test (Hydrostatic)	Seat Test (Air)
WCB	1125 psig	814 psig	80 psig
WC6	1125 psig	825 psig	80 psig
CF8M	1100 psig	792 psig	80 psig

class 600 Gate valve

OS & Y, Rising Stem, Flexible solid wedge, Bolted Bonnet, Threaded or Welded Seat Ring

Standard Compliance :

Basic Design: API 600

Face to Face Dimension : ANSI B 16.10 End to End Dimension : ANSI B 16.10

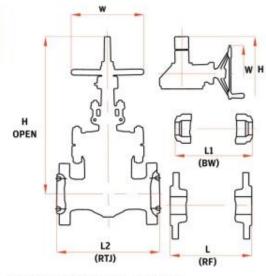
End Flange Dimension:

2"-24" to ANSI B 16.5 B.W.Ends to ANSI B 16.25

Shell Wall Thickness

2"-24" to API 600

Manufacturing to NACE MR-01-75 on request



TEST PRESSURE TO API 598

Body Material	Shell Test (Hydrostatic)	Seat Test (Hydrostatic)	
WCB	2225 psig	1628 psig	80 psig
WC6	2250 psig	1650 psig	80 psig
CF8M	2175 psig	1584 psig	80 psig



J

GLOBE VALVES

2" - 18" | Class 150 - Class 600

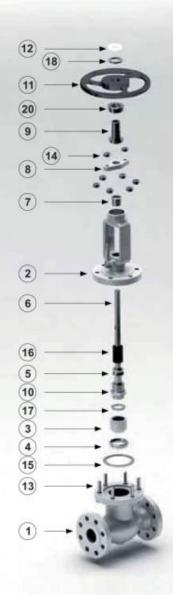
All globe valves utilize the "port closure" concept of valves. By this it meant that fluid passes through a specific opening (rather than a general passageway, as in the case of gate valves), and the fluid is controlled by means of a stem mounted disc or inserted plug in that area.

Despite of lacking the straight through, unobstructed passageway of the gate valve, these globe types are superior in two key aspects - throttling and serviceability under frequent use. They are better at the throttling function because they permit fluid to exit uniformly around the circumference of a seat, rather than slicing down to limit passage through a narrowly restricted area

BIL	L OF MATERIALS	TRIM 8	TRIM 2	TRIM 8	TRIM 10
Terra	Description	Carbon Steel	Eletion Steel (Low Temp.)	Alloy Steel	Stainless Steel
1	Body	A Z16 Gr. WCB	A 352 Gr. 108	A 217 Gr. C5	A 151 Gr. CFBM
2	bornet	A 216 Gr. WCB	A 352 Gr. LOII	A 217 Gr. C5	A 351 Gr. CFBM
3	Disc	A105+ER 410	A 182 Gr. F304	A 217 Gr. C5 + ER 410	A 351 Gr. CF8M
4	Seat Hing	A105 + Stellite	A 182 Gr. F304	ALSO Gr. Filia + Stellite	-
5	Backseat	AURZ Gr. Féa	A 182 Gr. F904	ASR2 Gr. FGa	
6	Stem	AIRZ Gr. Foo	A182 Gr. F304	A382 Gr. F6a	A 1892 Gr. F3016
7	Gland	A105	A 105	A382 Gr. F6a	A 182 Gr. F316
В	Gland Flange	A105	A 105	A 105	A 182 Gr. F304
9	Sten Nut	8348/A439 Gr. 02	8148 / A 439 Gr. DZ	8148/A439 Gr. D2	8 148 / A 439 Gr. 02
10	Disc Mut	A 382 Gr. F6a	A 182 Gr. F304	A SEZ GY, F64	A 162 Gr. F316
11	Handwheel	Cartion Street	Carbon Steel	Cartion Steel	Carbon Steel
12	Handwheel Nut	Strei	Stell	Steel	Steel
13	Bonnet Bolt & Nut	A 193 Gr.BT / A 194 Gr.2H	A320 Gr, L7 / A194 Gr, 7	A 190 Gr.87 / A 194 Gr.2H	A193 Gr. 87 / A 194 Gr. 2H
14	Eye Bolt & Nut.	A 193 Gr.807 / A 194 Gr.2W	A 193 Gr.87 / A 194 Gr.2N	A 193 Gr.87 / A 194 Gr.3H	A 193 Gr 87 / A 194 Gr 29
15	Gasket (Class 150)	55304 / Graphite	55304 / Graphite	55304 / Graphite	55316 / Graphite
15	Gasket (Class 300.)	Spw SS304 / Graphit x	Spw 55304 / Graphit e	Spw 55304 / Graphite	Spw:SS316/Graphine
15	Gasket (Class 600)	Spw SS304 / Graphite	Spw 55304 / Grahit e	Spw SS304 / Graptite	Spw:55316/Graphite
15	Gasket (Class 900)	NJ 55304	8/55304	RISS304	8755316
15	Gasket (Class 1900)	RJ 55304	RI 55304	RI 95304	R/ SS316
15	Gasket (Class 2500)	RJ 55304	R/55304	RISS304	RI 55316
16	Stem Packing	Graphite	Graphite	Graphite	Graphite
17	Threst Washer	A 182 Gr. F60	A 182 Gr. F304	A 182 Gr. F6a	A 182 Gr, F316
18	Washer	Steel	Steel	Steel	Steel
19	Grub Screw	A 193 Gr. 97	A 193 Gr. 87	A (93 Gr. 87	A 1913 Gr. 87
20	Lock Nut	Steel	Steel	A 182 Gr. F64	A 182 Gr. F316







APPLICATION & FUNCTION

Globe valves are primarily used as control valves where throttling or both and shut-off are required. Globe valves can also be used for on-off service' however, because of the design a pressure drop become inherent. This is generally confined to on-off applications where the valve is normally closed and pressure will find the globe valve with the flow and pressure under the disc. JR cast steel globe valves are commonly made in outside screw and yoke designs with full ports (including seat ring) and heavy-duty, conical plug type discs.

BODY & BONNET

The body is full ported and spherical in from. The design utilizes large radiuses which allow for the stresses, flow resistance and turbulence to be kept to a minimum. Valve bonnets are equipped with a backseat bushing.

BODY COVER JOINT

Standard body-cover joints of our globe valves are machined as follows:

Pressure class 150, 300, 600 900* & over joint Design Male - and Female Ring Type Joint

*Pressure class 600 also available in Ring Joint Type

JR can supply any style of gasket required by the customer.

DISC

The valve is normally supplied with the conical plug type dist. The disc rotates freely on the Stem and incorporates a differential angle from that on the seat ring. This design provides the maximum assurance of, is less likely to stick in the body seat, and is considerd the simplest design for field repair

SEAT RINGS

Seat rings are designed to greatly reduce and/or prevent any turbulence and avoid damages due to corrosion. The seat ring are forged or rolled in one Palace and then seal welded and overlaid if required after wedding and all required heat treating, the seat ring faces are machined, throughly Cleaned and inspected before leaving for assembly.

STEM

As JR's Standard all stems are rotating and rising; however, a non-rorating design is available when specified by the customers. The accuracy in the dimensions and finishes assure a long life with a perfect tightness in the packing area, resulting in lower fugitive emissions. All of our stems are designed with integral backseat feautres which provide an ultimate seal during packing changes.

ited Bornet Globe Valve	ASMERICAN	TEST / INSPECTION	METHOD	ACCEPTANCE CHITCHIA
ited Bonnet Globe Valve	85 1879 & ASME 800.34	Visual Inspection		MSS SP-55
ssure Seal Globe Valve (Long & Short pattern)	AGME 806.34	Marking		MSS SP-25 & 1505208
ce to Face / End to End Dimensions	ASME MAJD / 50 5752	Dimensional Inspection		Aplicable valve
d Flanged dimensions	ASSET BLD.S / ISD 700D-C, ASSET BIS. A7-AAB MSS SP- 44 & API 605	Chemical Analysis	ASTM E350	Apricable Standard
th weld End dimensions	ASHE 816.25	Mechanical Properties	ASTM A370	Aplicable Standard
ive impection & testing	851875, FSO 5208, 85-5755, EN 13266	Li uid Penetrum Inspection	ASTM AD05	ASME 016.34
essure - Temperature rating	ASME 816.34	Magnetic Particle Inspection	ASTM E709	ASME 896.34
	Concession of the latest designation of the	Radiographic Inspection	ASME B16.34	ASME 816.34
	THE RESERVE TO SHARE THE PARTY OF THE PARTY	Itrasonic Inspection	ASTM A388	ASME 816.34
THE RESERVE OF THE PERSON NAMED IN	THE RESERVE TO SHARE THE PARTY OF THE PARTY	Pressure Testing	API 598 / ISO 5208	API 598 / ISO 5208



Class 150 Globe Valve

OS & Y, Rising Stem, Plug type disc. Bolted Bonnet, Threaded or Welded Seat Ring

Standard Compliance:

Basic Design: BS 1873

Face to Face Dimension : ANSI B16.10 End to End Dimension : ANSI B16.10

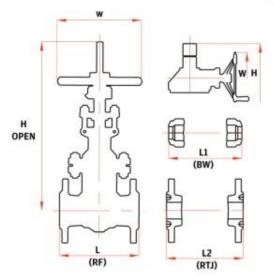
End flange to ANSI B 16.5 B.W.Ends to ANSI B 16.25

Shell Wall Thickness

2"-12" to BS1873

Manufacturing to NACE

MR-01-75 on request



TEST PRESS RE TO API 598

Body Material	Shell Test (Hydrostatic)	Seat Test (Hydrostatic)	
WCB	450 psig	325 psig	80 psig
WC6	450 psig	319 psig	80 psig
CF8M	425 psig	303 psig	80 psig

Class 300 Globe Valve

OS & Y, Rising Stem, Plug type disc. Bolted Bonnet, Threaded or Welded Seat Ring

Standard Compliance:

Basic Design: BS 1873

Face to Face Dimension : ANSI B16.10 End to End Dimension : ANSI B16.10

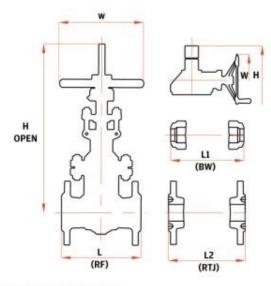
End flange to ANSI B 16.5 B.W.Ends to ANSI B 16.25

Shell Wall Thickness

2"-12" to BS1873

Manufacturing to NACE

MR-01-75 on request



TEST PRESS RE TO API 598

Body Material	Shell Test (Hydrostatic)	Seat Test (Hydrostatic)	Seat Test (Air)
WCB	1125 psig	814 psig	80 psig
WC6	1125 psig	825 psig	80 psig
CF8M	1100 psig	792 psig	80 psig

Class 600 Globe Valve

OS & Y, Rising Stem, Plug type disc. Bolted Bonnet, Threaded or Welded Seat Ring

Standard Compliance :

Basic Design: BS 1873

Face to Face Dimension : ANSI B16.10 End to End Dimension : ANSI B16.10

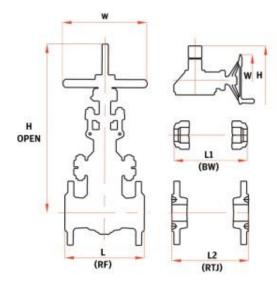
End flange to ANSI B 16.5 B.W.Ends to ANSI B 16.25

Shell Wall Thickness

2"-12" to BS 1873

Manufacturing to NACE

MR-01-75 on request



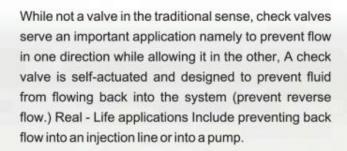
TEST PRESS RE TO API 598

Body Material	Shell Test (Hydrostatic)	Seat Test (Hydrostatic)	Seat Test (Air)
WCB	2225 psig	1628 psig	80 psig
WC6	2250 psig	1650 psig	80 psig
CF8M	2175 psig	1584 psig	80 psig



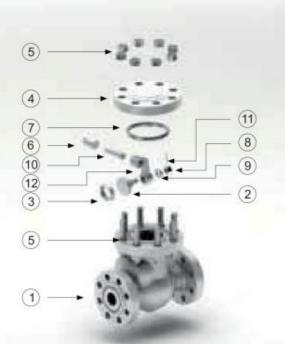
CHECK VALVES

2"-20" | Class 150 - Class 600



The fluid flow opens the valve by forcing a disk or ball in one direction. when the flow stops, the disk or ball is seated and closes the valve. They can be installed in horizontal or vertical upward flow piping.





BILL	OF MATERIALS	TRIM 8		TRIM 2	TRIM 8	TRIM 10
ten	Description	Cartion Stref		Carbon Steel (Low Temp.)	AFoy-Steel	Stainless Steel
1	Body	A 256 Gr. WCB		A 352 Gr. LCB - A	2(7 Gr. CS A	351 Gr. CFBM
2	Disc	A305 + ER 410		A 182 Gr. F304	A 182 Gr. F6a	A 162 Gr.F316
3	Seat Ring	ASOS + Stellite		A 182 Gr. F104	A 182 Gr. Fda + Stellite	
4	COVET A	216 Gr.WCB / A 515 GPO		A 352 GLLCB / A 182,6904	A 217 GF. CS A	TST GV. CFBM
5	Cover Bolt & Not	A 193 Gr.87 / A 194 Gr.2H		A 320 Gr.L7 / A 194 Gr.7 A	193 Gr.B7 / A 194 Gr.2H	A 193 Gr.87 / A 194 Gr.2H
6	Bracket Stud & Nut	A 193 Gr.88 / A 194 Gr.8	A	193 Gr.88 / A 194 Gr.8 A	193 Gr.88 / A 194 Gr.8	A 193 Gr.88M / A 194 Gr.8A
7	Gesket S	PW S.S. 304 / Graphtly	8	PW S.S. 304 / Graphite S	PWS.S.304 / Graphite	SPW S.S. 316 / Graphite
8	Washer A	19:410 A		IS1304 A	151 400	AISI 316
9	Disc Nut.	AIS 304 A		ISI 304 A	151304	ASI 306
10	Hinge Pin *	ASSZ Gr. Fox. A		162 Gr. F304	AIBZ Gr. F6a	A 182 Gr. F306
11	Split Pla A	15/304 A		ISI 304 A	151 304	AISI 316
12	Hinge	A 216 Gr.WEE / A 515 GPD		A 352 Gr. LEB A	217 Gr. CS A	351 Gr. CF8M
13	Hinge Bracket	A 216 Gr.WEB / A 515 GFO		A 352 Gr. LCB. A	217 Gr. CS A	351 Gr. CFRM

tructions are available. 00 Zinc costring.



Swing Check valves are designed to close quickly and automatically with positive shut off in either horizontal or vertical (flow up) pipe runs.

Inherently, swing check valves have a low pressure drop and are best suitable for velocity applications.

our Closure design allows our swing check valve to close completely even and remain closed with no flow when installed in a horizontal pipe run.

BODY

The body is full ported and spherical in from The design utilizes large radiuses which allow for the stresses, flow resistance and turbulence to be kept to a minimum. Bosses are provided for optional drains.

BODY-COVER JOINT

Standard body-cover joints of our swing check valves are machined as follows:

PRESSURE CLASS
150, 300, 600
Male-and-Female
900*% over
Ring Type Joint

JR can supply any style of gasket required by customer.

HINGE ASSEMBLY

The hinge arm pivots on the hinge pin which is located near the disc's center of gravity. Body penetration for the hinge pin is sealed with a soft steel gasket and flanged plug. The hinge arm is designed to with stand the shock load of quick closing to insure a longer life and continued shut off. The hinge arm also has an integral disc stop that provides a positive stop in the open position.

DISC

Each disc's seating surface is precision ground and mated to the seat ring for insurance of a positive shut off. The disc is secured to the hinge arm with the disc nut and pinned to prevent disengagement during service. We can provide either integral or overlaid seat facings at customer's request

SEATRING

Seat rings are designed to greatly reduce and/or prevent any turbulence and avoid damages due to corrosion. The seat rings are forged or rolled in one piece and then seal welded and overlaid, if required. After welding and all required heat treating., the seat ring faces are machined, throughly cleaned and inspected before leaving for assembly.

BOLTS AND NUTS

For normal Service conditions, ASTMA194 Class 2H and ASTMA193 H Grade B7 nuts and stud bolts are furnished. if specified for high temperature service conditions, ASTM A 194 Class 4 and ASTM A193 Grade B16 nuts and stud bolts are furnished. Standard bolting furnished for our stainless steel valves consists of ASTM A194 Class 8 and ASTM A193 Grade B8 nuts and stud bolts

DESIGN STANDARDS		TEST / INSPECTION METHODS & ACCEPTANCE CRITERIA					
Bolted Bonnet Swing Check Valve	\$5366 & ASARC \$50.34 & API 6D	TEST / INSPECTION M	ETHOO	ACCEPTANCE CRITERIA			
P ressure Seal Swing Check Valve Blog & Horn Junior	ASVE BIL 34	Visual inspection		MSS SP-55			
Flace to Face / End to End Dimensions	ASME BLL 10 / (50 S752	Marking		MSS SP-25 & 1505208			
End Flanged dimensions	ASME BILLS / ISO 7005-1, ADME BIG. 47-A&B NSS SP- 4A & APT 605	Dimensional Impection		Aplicable valve			
Butt-weld End dimensions	ASME B16-25	Chemical Analysis	ASTM E350	Aplicable Standard			
V aive inspection & testing	951866 A 100 5208 S 854700	Mechanical Properties	ASTM A370	Aplicable Standard			
P ressure - Temperature rating	ASME BILITY	Li uid Penetrant Impection	ASTM A165	ASME 816.34			
	The second second	Magnetic Particle Inspection	ASTM E709	ASME 816.34			
	The same of the sa	Radiographic Inspection	ASME B16.34	ASME 010-34			
	A CONTRACTOR OF THE PARTY OF TH	Itrasonic Inspection	ASTM A388	ASME 816.34			

^{*} Pressure Class 600 also available in Ring Type Joint.

J

Class 150 Check Valve

Bolted Cover, Swing Type Disc, Threaded or Welded Seat Ring

Standard Compliance:

Basic Design: BS 1868

Face to Face Dimension : ANSI B16.10 End to End Dimension : ANSI B16.10

Flange End

2"-24" to ANSI B 16.5 > 24" to MSS SP-44

to API 605 on request

B.W.Ends to ANSI B.16.25

Shell Wall Thickness

2"-24" TO API 600

>24" to manufacturer's standard

Manufacturing to NACE MR-01-75

on request

Class 300 Check Valve

Bolted Cover, Swing Type Disc, Threaded or Welded Seat Ring

Standard Compliance:

Basic Design: BS 1868

Face to Face Dimension : ANSI B16.10 End to End Dimension : ANSI B16.10

Flange End

2"-24" to ANSI B 16.5 >24" to MSS SP-44

to API 605 on request

B.W.Ends to ANSI B.16.25

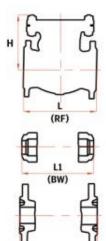
Shell Wall Thickness

2"-24" TO API 600

>24" to manufacturer's standard

Manufacturing to NACE MR-01-75

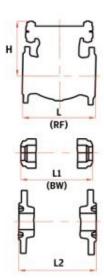
on request



L2

TEST PRESS RE TO API 598

Body Material	Shell Test (Hydrostatic)	Seat Test (Hydrostatic)	Seat Test (Air)
WCB	450 psig	325 psig	
WC6	450 psig	319 psig	
CF8M	425 psig	303 psig	



TEST PRESS RE TO API 598

Body Material	Shell Test (Hydrostatic)	Seat Test (Hydrostatic)	Seat Test (Air)
WCB	1125 psig	814 psig	
WC6	1125 psig	825 psig	
CF8M	1100 psig	792 psig	

Class 600 Check Valve

Bolted Cover, Swing Type Disc, Threaded or Welded Seat Ring

Standard Compliance:

Basic Design: BS 1868

Face to Face Dimension: ANSI B16.10 End to End Dimension: ANSI B16.10

Flange End

2"-24" to ANSI B 16.5 >24" to MSS SP-44

to API 605 on request

B.W.Ends to ANSI B.16.25

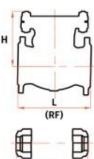
Shell Wall Thickness

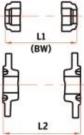
2"-24" TO API 600

>24" to manufacturer's standard

Manufacturing to NACE MR-01-75

on request





TEST PRESS RE TO API 598

Body Material	Shell Test (Hydrostatic)	Seat Test (Hydrostatic)	Seat Test (Air)		
WCB	2225 psig	1628 psig			
WC6	2250 psig	1650 psig			
CF8M	2175 psig	1584 psig			



J.R.INDUSTRIES



							ANSI	150					
		VALVE FLANGE DIMENSIONS – ASME B						5 RF 1504		F TO F - ASME B16.10 150#			
siz	lve e in hes mm	No. of Hole	Hole Dia.	Flange O.D	R.F. Dia	Flange Thickness With R.F. Height	P.C.D.	R.F. Height	Flange Port	F. TO F. GTV	F. TO F. GBV,LCV / SCV	F. TO F. BLV	
2"	50	4	19	152	92	16	120.7	2	50	178	203	178	
2%"	65	4	19	180	105	17.5	139.7	2	64	190.5	216	190.5	
3"	80	4	19	190	127	19	152.4	2	75	203.2	241.3	203.2	
4"	100	8	19	230	157	24	190.5	2	100	228.6	292.1	228.6	
5*	125	8	22	255	186	24	215.9	2	125	254	330	254	
6"	150	8	22	280	216	25.4	241.3	2	150	266.7	406.4/356	266.7	
8*	200	8	22	345	270	28.5	298.5	2	200	292.1	495.3	292.1	
10"	250	12	25	406	324	30.3	362	2	250	330.2	622.3	330.2	
12"	300	12	25	485	381	32	431.8	2	300	355.6	698.5	355.6	
14"	350	12	29	535	413	34	476.3	2	337	381	787	0.02	
16"	400	16	29	595	470	35.5	539.8	2	387	406	914	25	
18"	450	16	32	635	533	39	577.9	2	438	432	-/978		
20"	500	20	32	700	584	42	635	2	489	457	-	8	
24"	600	20	35	815	692	47	749.3	2	590	508	-/1295	7.4	

TOLERANCES: F TO F = ±2mm UP TO 10" & ±3mm FOR 12" & LARGER

AG TIMEWOODS ARE IN YOR

F/T = +3mm, -0.0mm UP TO 18" & +5mm, -0.0mm FOR 20" & LARGER

 $F/D = \pm 1.5$ mm, $PCD = \pm 1.5$ mm, $R/F = \pm 0.5$ mm

			1.0				ANSI	300						
	VALVE FLANGE DIMENSIONS – ASME B16.5 RF 300#									F TO F - ASME B16.10 300#				
Valve size in inches and mm	e in hes	No. of Hole	Hole Dia.	Flange O.D	R.F. Dia	Flange Thickness With R.F. Height	P.C.D.	R.F. Height	Flange Port	F. TO F. GTV	F. TO F. GBV,LCV /SCV	F. TO F. BLV		
2"	50	8	19	165	92	22.4	127	2	50	216	266.7	216		
236"	65	8	22.2	190	105	25.4	149.2	2	64	241.3	292.1	241.3		
3"	80	8	22.2	210	127	28.5	168.3	2	75	282.6	317.5	282.6		
4°	100	8	22.2	255	157.2	31.8	200	2	100	305	355.6	305		
5*	125	8	22.2	280	185.6	35	235	2	125	381	400	381		
6"	150	12	22.2	320	216	36.6	270	2	150	403.2	444.5	403.2		
8"	200	12	25.4	381	269.7	41.2	330.2	2	200	419.1	558.8/533.4	419.1		
10"	250	16	28.4	445	324	47.8	387.4	2	250	457.2	622.3	457.2		
12"	300	16	32	520	381	50.8	450.8	2	300	501.65	711.2	501.65		
14"	350	20	32	585	413	54	514.4	2	337	571.5	-/838.2			
16"	400	20	35	650	470	57.2	571.5	2	387	838.2	-/863.6			
18"	450	24	35	710	533	60.4	628.6	2	432	914	-/978	- 85		
20"	500	24	35	775	584	63.5	685.8	2	482.6	990.6	-/1016			
24"	600	24	41.2	915	692	70	812.8	2	584.2	1092.2	-/1346.2			

TOLERANCES: F TO F = ±2mm UP TO 10" & ±3mm FOR 12" & LARGER

MAZINIBURNA ARE MANIE

F/T = +3mm, -0.0mm UP TO 18" & +5mm, -0.0mm FOR 20" & LARGER $F/D = \pm 1.5mm$, PCD = $\pm 1.5mm$, R/F = $\pm 0.5mm$

		-					ANSI	600	501			
255	1000	-	١	ALVE FLAN	IGE DIM	FTOF	- ASME B16.10	600#				
Valve size in inches and mm	No. of Hole	Hole Dia.	Flange O.D	R.F. Dia	Flange Thickness Without R.F. Height	P.C.D.	R.F. Height	Flange Port	F. TO F. GTV	F. TO F. GBV,LCV /SCV	F. TO F. BLV	
2"	50	8	19	165	92	25.4	127	7	50	292	292	292
2%"	65	8	22.2	190	105	28.6	149.4	7	64	330	330	330
3*	80	8	22.2	210	127	32	168.3	7	75	356	356	356
4"	100	8	25.4	275	157.3	38.1	216	7	100	432	432	432
5"	125	8	28	330	185.6	44.5	266.7	7	125	508	508	508
6"	150	12	28	355	215.9	47.8	292	7	150	559	559	559
8*	200	12	32	420	269.8	55.6	349.2	7	200	660	660	660
10"	250	16	35	510	324	63.5	432	7	247.7	787	787	787
12*	300	20	35	560	381	66.7	489	7	298.5	838	838	838
14"	350	20	38	605	412.8	70	527	7	326.9	889	-/889	-
16"	400	20	41.2	685	469.9	76.2	603.2	7	374.7	991	-/991	
18"	450	20	44.5	745	533.4	82.6	654	7	419.1	1092	-/1092	-
20"	500	24	44.5	815	584.2	88.9	724	7	463.6	1194	-/1194	8.5
24"	600	24	50.8	940	692.2	101.6	838.2	7.	558.8	1397	-/1397	

TOLERANCES:

F TO F = ±2mm UP TO 10" & ±3mm FOR 12" & LARGER

ALL DISMONSCORE ARE IN THE

F/T = +3mm, -0.0mm UP TO 18" & +5mm, -0.0mm FOR 20" & LARGER

F/D = ±1.5mm, PCD = ±1.5mm, R/F = ±0.5mm



PRESSURE - TEMPERATURE RATINGS

							72779	Per Asme	AND A PERSON NAMED IN	
Class	Temp *F	A216 WCB A105 & LF2	A352 LCC	A217 WC6 A182 F11	A217 WC9 A182 F22	A217 C5 A182 F5	A217 C12 A182 F9	A351 CF8 A182 F304	A351 CF8M A182 F316	A352 CN7M
	-20 to 100	285	290	290	290	290	290	290	275	230
	200	260	260	260	260	260	260	260	230	200
	300	230	230	230	230	230	230	230	205	180
	400	200	200	200	200	200	200	200	190	160
	500	170	170	170	170	170	170	170	170	150
	600	140	140	140	140	140	140	140	140	140
	650	125	125	125	125	125	125	125	125	
	700	110	110	110	110	110	110	110	110	
	750	95	95	95	95	95	95	95	95	
	800	80	80	80	80	80	80	80	80	
222	850	65	65	65	65	65	65	65	65	
150	900	50	50	50	50	50	50	50	50	
	950	35	35	35	35	35	35	35	35	
	1000	20	20	20	20	20	20	20	20	
	1050			20 (a)	20 (a)	20 (n)	20 (a)	20 (a)	20 (a)	
	1100			20 (a)	20 (a)	20 (a)	20 (a)	20 (a)	20 (a)	
				20 (a)	20 (a)					
	1150	_		15 (a)		20 (a)	20 (a)	20 (a)	20 (a)	
	1200	_		10 (8)	15 (a)	15 (a)	20 (a)	20 (a)	20 (a)	
	1250	_						20 (a)	20 (a)	
	1300	_						20 (a)	20 (a)	
	1350							20 (a)	20 (a)	
	1400	_						20 (a)	20 (a)	
	1450							20 (a)	20 (a)	
	1500							15 (a)	15 (8)	
Class	Temp *F	A216 WCB A105 & LF2	A352 LCC	A217 WC6 A182 F11	A217 WC9 A182 F22	A217 C5 A182 F5	A217 C12 A182 F9	A351 CF8 A182 F304	A351 CF8M A182 F316	A352 CN7M
	-20 to 100	740	750	750	750	750	750	720	720	600
	200	680	750	750	750	750	750	600	620	520
	300	655	730	720	730	730	730	540	560	465
	400	635	705	695	705	705	705	495	515	420
	500	605	665	665	665	665	665	465	480	390
	600	570	605	605	605	605	605	440	450	360
	650	550	590	690	590	590	590	430	440	
	700	530	555	670	570	570	570	420	435	
	750	505	505	630	530	530	530	415	425	
	800	410	410	510	510	510	510	405	420	
2000	850	320	320	485	485	485	485	395	420	
300	900	230	225	450	450	375	450	390	515	
	950	135	135	320	385	275	375	380	385	
	1000	85	85	215	265	200	255	355	365	
	1050			145	175	145	170	325	360	
	1100			95	110	100	115	255	305	
	1150			65	70	60	75	205	235	
	1200			40	40	35	50	165	185	
	1250					- 00	- 00	135	145	
	1300	_						115	115	
	1350							95	95	
	1400	_						75	75	
	1450							60	60	
	1500							40	40	
	1000							40	40	
a.										
Class	Temp *F	A216 WCB	A352 LCC	A217 WC6	A217 WC9	A217 C5	A217 C12	A351 CF8	A351 CF8M	A352 CN7M
Class	Temp *F	A105 & LF2		A217 WC6 A182 F11	100000000000000000000000000000000000000	A182 F5	A182 F9	A182 F304	A351 CF8M A182 F316	A CONTRACTOR OF THE PARTY OF TH
Class	-20 to 100	A105 & LF2 1480	1500	1500	1500	A182 F5 1500	1500	1440	1440	1200
Class	-20 to 100 200	1480 1360	1500 1500	1500 1500	1500 1500	A182 F5 1500 1500	1500 1500	1440 1200	1440 1240	1200 1035
Class	-20 to 100 200 300	1480 1360 1310	1500 1500 1455	1500 1500 1445	1500 1500 1455	A182 F5 1500 1500 1455	1500 1500 1455	1440 1200 1075	1440 1240 1120	1200 1035 930
Class	-20 to 100 200 300 400	1480 1360 1310 1265	1500 1500 1455 1405	1500 1500 1445 1385	1500 1500 1455 1410	A182 F5 1500 1500 1455 1410	1500 1500 1500 1455 1410	1440 1200 1075 995	1440 1240 1120 1025	1200 1035 930 845
Class	-20 to 100 200 300 400 500	1480 1380 1310 1265 1205	1500 1500 1455 1405 1330	1500 1500 1445 1385 1330	1500 1500 1455 1410 1330	A182 F5 1500 1500 1455 1410 1330	1500 1500 1500 1455 1410	1440 1200 1075 995 930	1440 1240 1120 1025 955	1200 1035 930 845 780
Class	-20 to 100 200 300 400 500 600	1480 1380 1310 1265 1205 1135	1500 1500 1455 1405 1330 1210	1500 1500 1445 1385 1330 1210	1500 1500 1455 1410 1330 1210	A182 F5 1500 1500 1455 1410 1330 1210	1500 1500 1455 1410 1330 1210	1440 1200 1075 996 930 885	1440 1240 1120 1025 955 900	1200 1035 930 845
Class	-20 to 100 200 300 400 500 600 650	1480 1360 1310 1265 1205 1135 1100	1500 1500 1455 1405 1330 1210 1175	1500 1500 1445 1385 1330 1210 1175	1500 1500 1455 1410 1330 1210 1175	A182 F5 1500 1500 1455 1410 1330 1210 1175	1500 1500 1455 1410 1330 1210 1175	1440 1200 1075 996 930 885 865	1440 1240 1120 1025 955 900 885	1200 1035 930 845 780
Class	-20 to 100 200 300 400 500 600 650 700	1480 1360 1310 1265 1205 1135 1100 1060	1500 1500 1455 1405 1330 1210 1175 1110	1500 1500 1445 1385 1330 1210 1175 1135	1500 1500 1455 1410 1330 1210 1175 1135	A182 F5 1500 1500 1455 1410 1330 1210 1175 1135	1500 1500 1500 1455 1410 1330 1210 1175 1135	1440 1200 1075 996 930 885 865 845	1440 1240 1120 1025 955 900 885 870	1200 1035 930 845 780
Class	-20 to 100 200 300 400 500 600 650 700 750	1480 1360 1310 1265 1205 1135 1100 1060 1015	1500 1500 1455 1405 1330 1210 1175 1110	1500 1500 1445 1385 1330 1210 1175 1135 1065	1500 1500 1455 1410 1330 1210 1175 1135 1065	A182 F5 1500 1500 1455 1410 1330 1210 1175 1135	1500 1500 1500 1455 1410 1330 1210 1175 1135	1440 1200 1075 996 930 885 865 845 825	1440 1240 1120 1025 955 900 885 870 855	1200 1035 930 845 780
Class	-20 to 100 200 300 400 500 600 650 700 750 800	1480 1380 1310 1265 1205 1135 1100 1060 1015 825	1500 1500 1455 1405 1330 1210 1175 1110 1015 825	1500 1500 1445 1385 1330 1210 1175 1135 1065	1500 1500 1455 1410 1330 1210 1175 1135 1065 1015	A182 F5 1500 1500 1456 1410 1330 1210 1175 1135 1065	1500 1500 1455 1410 1330 1210 1175 1135 1065	1440 1200 1075 995 930 885 865 845 825 810	1440 1240 1120 1025 955 900 885 870 855 845	1200 1035 930 845 780
Class	-20 to 100 200 300 400 500 600 850 750 800 850	A105 & LF2 1480 1360 1310 1285 1205 1135 1100 1080 1015 825 640	1500 1500 1455 1405 1330 1210 1175 1110 1015 825 640	1500 1500 1445 1385 1330 1210 1175 1135 1065 1015 975	1500 1500 1455 1410 1330 1210 1175 1135 1065 1015 975	A182 F5 1500 1500 1455 1410 1330 1210 1175 1135 1065 1015	1500 1500 1455 1410 1330 1210 1175 1065 1015 975	1440 1200 1075 995 930 885 865 845 825 810 790	1440 1240 1120 1025 965 900 885 870 855 845 845	1200 1035 930 845 780
	-20 to 100 200 300 400 500 600 850 700 750 800 850 900	1480 1360 1360 1310 1265 1205 1135 1100 1060 1015 625 640 460	1500 1500 1455 1405 1330 1210 1175 1110 1015 825 640 445	1500 1500 1445 1385 1390 1210 1175 1135 1065 1015 975 900	1500 1500 1455 1410 1330 1210 1175 1135 1065 1015 975	A182 F5 1500 1500 1455 1410 1330 1210 1175 1135 1065 1015 975 745	1500 1500 1500 1455 1410 1330 1210 1175 1135 1065 1015 975	1440 1200 1075 995 930 885 865 845 825 810 790	1440 1240 1120 1025 965 900 885 870 855 870 855 835	1200 1035 930 845 780
	-20 to 100 200 300 400 500 600 650 700 750 800 850 900 960	A105 & LF2 1480 1380 1380 1310 1285 1205 1135 1100 1060 1015 825 640 460 275	1500 1500 1455 1405 1330 1210 1175 1110 1015 825 640 445 275	1500 1500 1445 1385 1380 1210 1175 1135 1065 1015 975 900 640	1500 1500 1455 14410 1330 1210 1175 1135 1065 1015 975 900 755	A182 F5 1500 1500 1500 1405 1410 1330 1210 1175 1135 1065 1015 975 745 550	1500 1500 1500 1455 1410 1330 1175 1135 1065 1015 975 900 755	182 F 304 14200 1075 995 930 885 885 885 845 825 810 790 780	855 870 855 845 870 855 870 855 870 855 870 855 870 855 870	1200 1035 930 845 780
	-20 to 100 200 300 400 500 600 650 700 750 800 850 900 950	1480 1360 1360 1310 1265 1205 1135 1100 1060 1015 625 640 460	1500 1500 1455 1405 1330 1210 1175 1110 1015 825 640 445	1500 1500 1445 1385 1330 1210 1175 1135 1065 1015 975 900 640 430	1500 1500 1455 1410 1330 1210 1175 1135 1065 1015 975 900 755 535	A182 F5 1500 1500 1500 1415 1410 1330 1210 1175 1135 1065 1015 075 745 550 400	1500 1500 1500 1455 1410 1330 1210 1175 1135 1065 1015 975 900 755 505	1440 1200 1075 995 930 885 865 845 825 610 790 780 785 710	1440 1240 1120 1025 955 900 865 870 855 845 835 835 830 775 725	1200 1035 930 845 780
	-20 to 100 200 300 400 600 650 700 850 800 850 900 950 1000	A105 & LF2 1480 1380 1380 1310 1285 1205 1135 1100 1060 1015 825 640 460 275	1500 1500 1455 1405 1330 1210 1175 1110 1015 825 640 445 275	1500 1500 1445 1385 1330 1210 1175 1135 1065 1015 975 900 640 430 290	1500 1500 1455 1410 1330 1210 1175 1135 1065 1015 975 900 755 535 350	A182 F5 1500 1500 1500 1415 1410 1330 1210 1175 1135 1065 1015 975 745 550 400 290	1500 1500 1500 1455 1410 1330 1210 1175 1135 1065 1015 975 900 755 505 345	1440 1200 1075 995 885 865 845 825 810 790 780 765 710 650	1440 1240 1120 1025 905 900 885 870 885 870 845 835 830 775 725 720	1200 1035 930 845 780
	-20 to 100 200 300 400 500 600 650 700 750 800 850 900 950	A105 & LF2 1480 1380 1380 1310 1285 1205 1135 1100 1060 1015 825 640 460 275	1500 1500 1455 1405 1330 1210 1175 1110 1015 825 640 445 275	1500 1500 1445 1385 1330 1210 1175 1135 1065 1015 975 900 640 430 290	1500 1500 1455 1410 1330 1210 1175 1135 1065 1015 975 900 756 535 350 220	A182 F5 1500 1500 1500 1415 1410 1330 1210 1175 1135 1065 1015 075 745 550 400	1500 1500 1500 1455 1410 1330 1210 1175 1135 1065 1015 975 900 755 505	1440 1200 1075 995 930 885 865 845 825 610 790 780 785 710	1440 1240 1120 1025 965 900 885 870 865 845 835 830 775 725 720 610	1200 1035 930 845 780
	-20 to 100 200 300 400 600 650 700 850 800 850 900 950 1000	A105 & LF2 1480 1380 1380 1310 1285 1205 1135 1100 1060 1015 825 640 460 275	1500 1500 1455 1405 1330 1210 1175 1110 1015 825 640 445 275	1500 1500 1445 1385 1380 1210 1175 1135 1065 1015 975 900 640 430 290 190	1500 1500 1455 1410 1330 1210 1175 1135 1065 1015 975 900 755 535 350 220	A182 F5 1500 1500 1500 1415 1410 1330 1210 1175 1135 1065 1015 975 745 550 400 290	1500 1500 1500 1455 1410 1330 1210 1175 1135 1065 1015 975 900 755 505 345	1440 1200 1075 995 885 865 845 825 810 790 780 765 710 650	1440 1240 1120 1025 905 900 885 870 885 870 845 835 830 775 725	1200 1035 930 845 780
	-20 to 100 200 300 400 500 600 650 700 750 800 850 900 950 1000 1050	A105 & LF2 1480 1380 1380 1310 1285 1205 1135 1100 1060 1015 825 640 460 275	1500 1500 1455 1405 1330 1210 1175 1110 1015 825 640 445 275	1500 1500 1445 1385 1330 1210 1175 1135 1065 1015 975 900 640 430 290	1500 1500 1455 1410 1330 1210 1175 1135 1065 1015 975 900 756 535 350 220	A182 F5 1500 1500 1455 1410 1330 1210 1175 1135 1065 1015 975 745 550 400 290 200	1800 1800 1800 1455 1410 1330 1210 1175 1135 1065 1015 975 900 755 505 345 225	1440 1200 1075 995 930 885 885 845 825 810 790 780 785 515	1440 1240 1120 1025 965 900 885 870 865 845 835 830 775 725 720 610	1200 1035 930 845 780
	-20 to 100 200 300 400 500 600 650 700 750 800 850 900 950 1000 1150	A105 & LF2 1480 1380 1380 1310 1285 1205 1135 1100 1060 1015 825 640 460 275	1500 1500 1455 1405 1330 1210 1175 1110 1015 825 640 445 275	1500 1500 1445 1385 1380 1210 1175 1135 1065 1015 975 900 640 430 290 190	1500 1500 1455 1410 1330 1210 1175 1135 1065 1015 975 900 755 535 350 220	A182 F5 1500 1500 1500 1405 1410 1330 1210 1175 1135 1065 1015 975 745 550 400 290 200 125	1500 1500 1500 1455 1410 1330 1210 1175 1135 1065 1015 975 900 755 505 505 345 225	1440 1440 1200 1075 995 930 885 885 845 825 810 790 780 765 710 650 515	855 870 885 870 885 870 895 845 835 830 775 725 610	1200 1035 930 845 780
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