High Performance Butterfly Valves



TIPVALVE INDUSTRIAL GROUP CO.,LTD. i s a professional manufacturer of soft seat, metal seat and fire-safe high performance butterfly valv es, our unique seat design is advanced and relia ble. Under an ISO 9001 Quality Assurance Progr am, it assures each valve we produce meets or e xceeds your application requirements.

Tipvalve high performance butterfly valves are available in sizes from 2" - 60" in ANSI/ASM E, DIN standards etc. and are available with a di

High Performance Applications

Construction Chemical / Petro-Chemical Liquified Gas / Refrigeration Heavy Industrial Power / Co-Generation Plants Steel and Iron Works Commercial verse range of manual and actuated options.

Our high performance butterfly valves are wide ly used in many industries including heating, ventila ting and air conditioning, power generation, hydroc arbon processing, water and waste water treatmen t, and marine and commercial shipbuilding. Our pro ducts are also installed in applications as diverse a s food and beverage processing, snowmaking and pulp and paper production.

Configurations are available for harsh conditio ns as well as applications requiring nominal pressu re and temperature ratings

Pulp and Paper Mills Oil Refineries and Oil Field Ship Building Hydrocarbon Processing Gas Piping Local Area Energy Supply Industrial



SQUARE

Square valve-to-operator connection applied t o ISO5211 pneumatic actuators and electic a ctuactors 2"-28" default connection as square, key type is available. 28"-60" default connecti on is KEY type.

GRAND FLANGE

Applies load against packing gland to prevent external leakage. Fully adjustable.

PACKING

Soft Seat: Chevron design TFE prevents exte rnal leakage out valve neck to full ASME hydr ostatic shell test pressures (150% of C.W.P.) Metal Seat: Common materials are TFE for u p to 232°C and Graphite for up to 482°C. Fire-safe: Common material is graphite.

WEDGE RING

Stainless steel band wedged between valve b ody and retainer ring by set screws to lock se at and retainer ring in position on valve.

WEDGE PINS

Provide positive mechanical attachment of dis c to shaft.

OVERTRAVEL STOP Prevents disc from rotating into the wrong qua drant

SET SCREWS

Cone point screws force wedge ring outward t o lock seat retainer in position on the 30" valv e size.

RETAINER RING

Retains seat in valve. Standard surface finish is 125 to 200 AARH and is compatible with bo th standard gaskets and spiral wound gasket designs. Outside diameter is recessed within gasket sealing surface to prevent external lea kage.



BLOW OUT PROOF SHAFT

Solid shaft provides alignment and rigid supp ort for disc. 17-4PH and 316 materials are av ailable

PACKING GLAND

Separate part from gland flange, preventing u neven load distribution against packing.

BEARINGS

Soft Seat: Both above and below the disc, be arings are of composite design: PTFE bonded to epoxy-glass filament wound ring

Used to align shaft, with high capacity, low we ar, and low friction coefficient.

Metal Seat: Both above and below the disc, b earings are of composite design: 316 bonded to Dupont PTFE wound ring. used to align sh aft, with high capacity, low wear, and low fricti on coefficient.

Fire-safe: Both above and below the disc, be arings are of composite design: 316 bonded t o Dupont PTFE wound ring. Used to align sha ft, with high capacity, low wear, and low frictio n coefficient

BODY

ASME B16.34 design in either wafer or lug co nfiguration.

DISC

Soft Seat: 360° uninterrupted spherical edge for sealing. Profile is designed for maximum fl ow and equal percentage control.

SEAT

Soft Seat: Patented bi-directional seat with e ncapsulated elastomeric o-ring core for resilie ncy. Common seat materials include TFE, RT FE and UHMWPE.

Metal Seat: Patented metal seat with metal b ack-up ring.

Fire-safe: Patented bi-directional soft seat de sign for zero-leakage in normal operation and a metal-to-metal seal after fire, meeting or exc eeding industry "fire-safe" specifications.

Bi-directional Sealing



Seat non-compressed as disc approaches.

Double Offset/Eccentric Design

The double offset design of the Tipvalve High Performance Buttefly Valves assures reduced seat wear and bidirectional, zero leakage shu t off throughout the full pressure range.

Body

Disc in close position,

with no line pressure.

At the initial point of disc opening, the offset disc produces a cam–li ke action, pulling the disc from the seat. This cam–like action reduces seat wear and eliminates seat deformation when the disc is in the ope n position. When open, the disc does not contact the seat, therefore s eat service life is extended and operating torques are reduced. As the valve closes, the cam-like action converts the rotary motion of the dis c to a linear type motion to effectively push the disc onto the seat. The

wiping action of the disc against the seat prevents undesirable material build-up from slurries or suspended solids.

Disc



Disc in close position, line pressure applied from upstream.



Disc in close position, line pressure applied from downstream.



Unique Valve Seat Design – Soft Seat The soft seat structure



The soft seat valve provides a bi-directional b ubble tight shutoff (zero leakage) by the use of a patented seat.

This unique seat design creates a self-energi zed seal in vacuum-to-low pressure application s.

Under higher pressure conditions, the seat is also designed to permit, confine, and direct mov ement of the soft seat against the disc edge, up to the full ASME Class 150, 300 and 600 Cold Working Pressures.

The soft seat is designed for high services wit h minimal wear and low torque. Seat replaceme nt is a simple operation, requiring no special too ls.

Principle of soft seat sealing

Disc open

The disc and seat are not engaged. In this po

sition, the shoulder s of the seat are fo rced against the ca vity shoulders by th e compression of t he o-ring.



The seat is reces sed inside the seat

cavity and acts as a gasket in the anchoring gr oove area. The seat cavity is sealed from expos ure from the process fluid and protects the seat from abrasion and wear. The o-ring, which is co mpletely encapsulated by the seat, is also isolat ed from exposure to the process fluid.

Disc closed, Self-energized seal

The Tipvalve disc and seat are engage d, and the process fl uid is under low pres sure. The edge of th e disc, with a larger d iameter than the seat tongue, directs mov



ement of the seat radially outward, causing th e seat to compress against the convergent sid

ewalls of the cavity. The elastomeric o-ring im parts a mechanical pre-load between the disc and seat tongue as it is compressed and flatte ned by the disc; this is the self-energized mod e for sealing at vacuum-to-60 psi.

As the seat moves radially outward, the seat shoulders move away from the cavity shoulde rs and open the cavity to the process media.

Disc closed, Pressure-energized seal (Seat upstream)

As line pressure increases, the process fluid enters the sidewall area and applies a load agai nst the parallel-spaced sidewall and convergent

sidewall of the s eat. The seat an d cavity design p ermits the seat t o move axially to the downstream sidewall, but co nfines the move



ment and directs the movement radially inward t owards the disc; the higher the line pressure, th e tighter the seal between the disc and seat. Be cause the o-ring is elastic, it is able to flex and d eform under loads and return to original shape a fter removal of the load; it is the rubber which de forms, not the thermoplastic material. This dyna mic seal, patented by Tipvalve, is totally unique among high performance butterfly valves.

Disc closed, Pressure-energized seal (Seat downstream)

The soft seat valve is bi-directional (in some i

nstances, modificati ons may be required to operate this arra ngement for dead e nd service).

The cavity and se at sidewalls are sym metrically designed to permit, confine, a



nd direct movement of the seat to the disc to dy namically seal with line pressure in the reverse direction. The disc edge is the segment of a sph ere, and the seat is angled towards the disc edg e to seal with pipeline pressure in either directio n.

Recommended installation direction is seat u pstream.

TIPVALVE INDUSTRIAL GROUP LTD. www.tipvalve.com

The metal seat structure



The Inconel/SS316L seat, by its dynamic and flexible design, applies enough force per linear inch against the disc edge (Rockwell Hardness of C66 to C70) to obtain an optimum sealing ch aracteristic while controlling the loads between t he metal surfaces.

The metal seat valve is utilized for temperatu res up to 482°C in compliance with ASME B16. 34 pressure/temperature specifications. Leakag e is rated at Class IV per ASME FCI 70-2.

Metal-to-metal sealing is accomplished by t

he "line contact" between a spher ical surface and conical surface. i llustrates a typic al globe control valve seat and p lug. The plug se ating surface is t



he segment of a sphere; when engaged against the seat ring, a line contact seal is achieved.

In a metal seat design, it is necessary to ap ply enough force per linear inch to maintain a tig ht metal-to-metal contact between the sealing m embers; however, high linear thrust can cause a collapse of the seating members ("bearing failu re").

Disc closed, Self-energized seal

The Tipvalve disc and seat are engaged, and th e process fluid is under low pressur e. The spherical e dge of the disc, w ith a larger diame ter than the conic



al seat tongue, imparts a thrust of approximatel y 600 pounds per linear inch against the seat. T he mechanical properties and shape of the Inco nel seat allow it to both flex and maintain a cons tant thrust against the disc.

This controlled loading prevents the occurr ence of bearing failure and reduces the leakage and wear between the components.

Disc closed, Pressure-energized seal (Seat upstream)

As line pressure increases, the process flui

d enters the s idewall area and applies a load against the parallel-s paced sidew all and conve rgent sidewal l of the metal seat. The sea



t moves towards the downstream sidewall while being supported axially by the support ring, The cavity shape confines the seat movement and directs the movement radially inward towards th e disc; the higher the line pressure, the tighter t he line contact between the disc and seat. The I nconel seat, shaped by a special hydroforming process, is able to flex under these loads and re turn to its original shape after removal of the loa ds.

This dynamic seal, patented by Tipvalve, is totally unique among high performance butterfl y valves.

Disc closed, Pressure-energized seal (Seat downstream)

The Tipvalve valve is bi-directional (in som e instances, modifications may be required to o perate this arrangement for dead end service).

The cavity and s eat sidewalls are symmetrically d esigned to permi t, confine, and dir ect movement of the seat to the di sc to dynamically seal with line pre ssure in the seat



downstream direction, Recommended installatio n direction is seat upstream.

The stainless steel back-up ring interacts dy namically with the metal seat for axial support in seat sealing. Additionally, this ring effectively re stricts corrosion and particulate build-up in the c avity.

The fire-safe structure



With little or no pressure, the fire-safe seat cr eates a self-energized seal against the disc. Hig her line pressures act on the geometry of both s eats to dynamically load them against the disc, creating higher sealing forces in either direction.

The fire-safe metal seat is made of Inconel m aterial which is shaped by a proprietary hydrofor ming process into its unique, patented design. S tainless steel outer bearings are included for po st-fire disc and shaft alignment. Fireproof packin g is used to prevent external shaft leakage.

Disc open, Normal Operation

The disc and seat assembly are not eng aged. In this position, t he metal seat acts to k eep the soft seat insid e the seat cavity while the soft seat shoulders



seal the cavity from exposure to the process flu id. (The o-ring is under tension and imparts a lo ad against the soft seat.)

The soft seat is protected from abrasion an d wear because it is recessed inside the seat ca vity area. The o-ring is isolated from exposure t o the fluid because it is completely encapsulate d by the seat tails which act as a (soft) gasket in the anchoring groove area. The metal seat gas kets add further high temperature protection pa st the anchoring grooves.

Disc closed, Normal Operation

The disc and seat assembly are engaged;

both the metal seat and the soft seat are in con tact with the disc. Unde r little to no pressure co nditions, both seats are self-energized. The dis c edge, with a larger di



ameter than the seat tongues, moves the seats radially outward; the metal seat shape, with a m echanical and dynamic flexibility, is designed to be hoop-loaded and impart a spring force again st the disc, while the soft seat o-ring is stretched and flattened (without deformation of the materi al) and imparts a mechanical pre-load against th e disc.

With increased line pressure, the process fl uid enters the cavity sidewall area and applies I oads against the seat sidewalls. The cavity desi gn allows the seats to move toward the downstr eam sidewalls, but confines and directs the mov ement radially inward towards the disc; the high er the pressure the tighter the seal. The symmet rical shape and angle of the cavity permit the se al to be bi-directional.

Disc closed, After Fire (Seat Upstream)

After a fire, with partial or complete d estruction of the soft seat, the metal seat maintains metal-tometal contact with th e disc and restricts I



eakage of the process fluid in conformance to in dustry fire-safe requirements.

With little or no line pressure, the spring for ce and hoop load of the metal seat maintain a "I ine contact" seal against the disc edge. Under h igher pressures, the process fluid enters the cav ity sidewall areas and applies loads against the seat sidewalls. The geometry of the metal seat permits the seat to move axially, but directs the movement radially inward toward the disc. The higher the pressure, the tighter the line contact seal.

Graphite gaskets, on both sides of the meta I seat tail, seal the anchoring groove and preven t leakage of the process fluid.

Disc closed, After Fire (Seat Downstream)

The fire-safe valve is bi-directional; however, mo difications are required to operate for bi-directional d ead end service. The angl e and shape of the cavity a nd metal seat maintains m



etal-to-metal contact in the event of partial or co mplete soft seat destruction with line pressure in the reverse direction.

While the preferred flow direction is seat up stream, the bidirectional seat design is both self -energized and pressure-energized if the flow di rection is seat downstream.

Standard Production Range										
	ANSI Class 150	ANSI Class 300	ANSI Class 600							
Rating-Psi	285	740	1440							
Rating-Bar	20	50	100							
Size-Inch	2-60	2-48	2-24							
Size-mm	DN50-DN1500	DN50-DN1200	DN50-DN600							
TESTING Testing	API 598									
Face To Face Specification	ANSI B16.1	0 / API 609 / MSS-SP-68	3 / ISO 5752							
End Flange Specifications	ASM DIN IS	E B16.5: Class 150, 300 SO PN10, PN16, PN25,), 600 PN40							
Connection	Waf	er, Lugged, Double Flar	iged							
Actuaror-Manual	Lever	Handle, Worm Gear Op	erator							
Actuator-Automatic	Electric Motor, Pneumatic Double Acting, Pneumatic Spring Return									

Main Materials									
	ANSI Class 150	ANSI Class 300	ANSI Class 600						
Body	Carbon Steel (A216-W	CB), 316 SS (A351-CF8	M)						
Disc	316 SS (A351-CF8M)								
Stem	17 / 4PH (A564-630)								
Seat	PTFE, RTFE, 316 SS,	Inconel, PTFE + 316 SS,	RTFE + 316SS						
Shaft Bearing	316 SS + RTFE Impreg	nated, 316 SS + Graphit	e Impregnated						
Packing Seal	PTFE, Graphite								

Seat Materials And Rating	
PTFE	Class VI, Bubble Tight
RTFE	Class VI, Bubble Tight
316 SS	Class V
Inconel	Class V
PTFE+316 SS	Class VI, Bubble Tight, Class V w/ Preferred Flow After Fire
RTFE+316 ss	Class VI, Bubble Tight, Class V w/ Preferred Flow After Fire

Dimensions ANSI Class 150

		1	WAFE	ER		-								LUG			
Hole Size Number of Holes Bolt Circle ANSI Class 150															E Size er of Ho	ircle))	
VALV	E SIZE	WAFER	LUG	B	с	E	F	ZxZ		ĸ			P	D	ç	WEGH	ſГ (Kg)
mm	ins	А	А		ins/ı	nm		GH					mm	ĸ	3	WAFER	LUG
50	2"	1 <u>0.15</u> 7 258	1 <u>0.157</u> 258	7 <u>.598</u> 193	<u>1.693</u> 43	<u>2.3</u> 62 60	<u>1.063</u> 27	0. <u>433*0. </u> 4 11*11	133			5/8-11X4	<u>4.752</u> 120.7	Ø70	4XØ9	4.4	4.8
65	2 <u>1</u> "	1 <u>0.315</u> 262	1 <u>0.315</u> 262	7 <u>.598</u> 193	<u>1.811</u> 46	<u>2.756</u> 70	<u>1.063</u> 27	0. <u>433*0. </u> 4 11*11	133			5/8-11X4	<u>5.50</u> 139.7	Ø70	4XØ9	4.9	5.3
80	3"	1 <u>1.575</u> 294	1 <u>1.575</u> 294	8 <u>.583</u> 218	<u>1.929</u> 49	<u>3.228</u> 82	<u>1.063</u> 27	0. <u>433*0. </u> 4 11*11	133		/	5/8-11X4	<u>6.00</u> 152.4	Ø70	4XØ9	5.6	6.5
100	4''	1 <u>3,307</u> 338	1 <u>3.70</u> 1 348	9 <u>.409</u> 239	2 <u>.047</u> 52	<u>4.173</u> 106	<u>1.063</u> 27	0. <u>551*0.</u> 5 14*14	551			5/8-11X8	7.50 190.5	Ø70	4XØ9	8	11.5
125	5"	1 <u>4.843</u> 377	1 <u>5.07</u> 9 383	1 <u>0.354</u> 263	2 <u>.205</u> 56	<u>5.039</u> 128	1 <u>.18</u> 1 30	0. <u>669*0.</u> 6 17*17	69			3/4-10X8	<u>8.50</u> 215.9	Ø70	4XØ9	10.5	13.5
150	6"	1 <u>5.82</u> 7 402	1 <u>6.06</u> 3 408	1 <u>0.906</u> 277	2 <u>.402</u> 61	<u>5.984</u> 152	1 <u>.26</u> 0 32	0. <u>669*0.</u> 6 17*17	69			3/4-10X8	<u>9.50</u> 241.3	Ø70	4XØ9	13.5	16.5
200	8"	1 <u>8.465</u> 469	1 <u>8.62</u> 2 473	1 <u>2.480</u> 317	2 <u>.500</u> 63.5	<u>7.677</u> 195	1 <u>.77</u> 2 45	0. <u>669*0.</u> 6 17*17	69			3/4-10X8	11.750 298.45	Ø70	4XØ9	20.6	24.5
250	10''	2 <u>1.06</u> 3 535	2 <u>1.26</u> 0 540	1 <u>3.701</u> 348	<u>2.795</u> 71	<u>9.646</u> 245	1 <u>.96</u> 9 50	0. <u>866*0. 8</u> 22*22	oval		2	7/8-9X12	1 <u>4.250</u> 361.95	Ø102	4XØ11	39	45.5
300	12"	2 <u>4.60</u> 6 625	2 <u>4.80</u> 3 630	1 <u>5.748</u> 400	<u>3.228</u> 82	1 <u>1.49</u> 6 292	2 <u>.36</u> 2 60	1. <u>063*1. 0</u> 27*27	oval		2	7/8-9X12	<u>17.00</u> 431.8	Ø140	4XØ18	55	67.5
350	14"	2 <u>7.48</u> 0 698	2 <u>7.48</u> 0 698	1 <u>6.417</u> 417	<u>3.622</u> 92	1 <u>3.34</u> 6 339	2 <u>.36</u> 2 60	1. <u>063*1. 0</u> 27*27	oval		4	1-8X12	1 <u>8.75</u> 0 476.25	Ø140	4XØ18	68	115
400	16"	3 <u>1.41</u> 7 798	3 <u>1,41</u> 7 798	1 <u>8.740</u> 476	<u>4.008</u> 101.8	1 <u>5.23</u> 6 <u>38</u> 7	3 <u>.15</u> 0 80	1. <u>063*1. 0</u> 27*27	oval		4	1-8X16	2 <u>1.25</u> 0 539.75	Ø165	4XØ21	116	132
450	18"	3 <u>4.80</u> 3 884	3 <u>4.80</u> 3 884	2 <u>2.205</u> 564	<u>4.512</u> 114.6	1 <u>7.13</u> 0 435	3 <u>.54</u> 3 90	1 <u>417*1 4</u> 36*36	17 oval		4	1 1 88X16	2 <u>2.75</u> 0 577.85	Ø165	4XØ21	145	168
500	20"	3 <u>7,99</u> 2 965	3 <u>7,99</u> 2 965	2 <u>3.54</u> 3 598	<u>5.000</u> 127	1 <u>9,29</u> 1 490	3 <u>.54</u> 3 90	1. <u>417*1. 4</u> 36*36	117	$1\frac{1}{8}-8$	4	1 1 8X20	<u>25.0</u> 635.0	Ø165	4XØ21	185	220
600	24"	4 <u>2.28</u> 3 1074	4 <u>2.28</u> 3 1074	2 <u>6.457</u> 672	6 <u>.043</u> 153.5	2 <u>3.03</u> 1 585	4 <u>.33</u> 1 110	1.811*1.8 46*46	311	1 <u>1</u> 8	4	1 1 -8X20	29.50 749.3	Ø165	4XØ21	290	310
650	26"	4 <u>6.06</u> 3 1170	4 <u>6.06</u> 3 1170	2 <u>7,874</u> 708	6 <u>.496</u> 165	2 <u>5,20</u> 0 640	4 <u>.33</u> 1 110	1. <u>811*1. 8</u> 46*46	311	$1\frac{1}{4}-8$	4	1 1 -8X24	31.750 806.45	Ø165	4XØ21	330	345
700	28"	4 <u>8.504</u> 1232	4 <u>8.504</u> 1232	2 <u>9.05</u> 5 738	6 <u>.496</u> 165	2 <u>7.16</u> 5 690	4 <u>.33</u> 1 110	1.811*1.8 46*46	311	1 <u>1</u> 8	4	1 <u>1</u> -8X28	<u>34.0</u> 863.6	Ø165	4XØ21	495	579
750	30"	51.260 1302	51.260 1302	30.433 773	7.520 191	28.307 719	4.724 120	0.866 3.1 22 8	50	1 <u>1</u> 8	4	1 1 -8X28	<u>36.0</u> 914.4	Ø165	4XØ21	652	773
800	32"	53.425 1357	53.425 1357	31.339 796	7.520 191	30,200 767	4.724 120	0.866 3.1 22 8	50	$1\frac{1}{2}8$	4	1 <u>1</u> 8X28	<u>38.50</u> 977.9	Ø165	4XØ21	736	922
850	34"	56.850 1444	56.850 1444	33.701 856	7.756 197	32.126 816	4.724	$\begin{array}{c c} 0.866 \\ \hline 22 \\ \hline 8 \\ \hline \end{array}$	50	1 <u>1</u> 8	4	1 <u>1</u> -8X32	40.50 1028.7	Ø254	8XØ17	842	1047
900	36"	59.055 1500	59.055 1500	36.417 925	8.268	34,016 864	4./24	<u>0.866</u> 3.1 22 8	50	1 <u>1</u> 8	4	1 <u>1</u> 8X32	42.750 1085.85	Ø254	8XØ17	871	1160
1000	40''	64.331 1634	64.331 1634	3 <u>7.52</u> 0 953	<u>9.488</u> 241	<u>3/.008</u> 940	5.118 130	$\begin{array}{c c} 0.984 \\ \hline 25 \\ \hline 10 \\ \hline \end{array}$	<u>34</u>)5	$1\frac{1}{2}$ -8	4	1 1 -8X36	47.250	Ø254	8XØ17	1728	1779
1050	42"	66.535 1690	66.535 1690	3 <u>8.543</u> 979	<u>9.488</u> 241	<u>39.05</u> 5 992	5.118 130	$\begin{array}{c c} 0.984 \\ 25 \\ 10 \\ 10 \\ 10 \\ 10 \\ 10 \\ 10 \\ 10 \\ 1$	34)5	1 <u>1</u> 8	4	1 <u>1</u> 8X36	49.50 1257.3	Ø254	8XØ17	1905	1930
1200	48"	1897	74.685 1897	43.386	254	46.102	5.118 130	$1.260 \\ 32 \\ 11 \\ 1.417 \\ 52 \\ 11 \\ 1.417 \\ 5 \\ 5 \\ 5 \\ 11 \\ 1.417 \\ 5 \\ 5 \\ 5 \\ 5 \\ 11 \\ 11 \\ 11 \\ 11 \\$	5	$1\frac{1}{2}$ -8	4	1 ¹ / ₂ -8X44	<u>56.0</u> 1422.4	¢298	8XØ22	2074	2548
1350	54"	8 <u>2.667</u> 2100	8 <u>2.667</u> 2100	4 <u>/.598</u> 1209	1 <u>0./48</u> 273	<u>52.44</u> 1 1332	5.906 150	1 <u>.41</u> / 5.5 36 14	12	1 <u>3</u> 8	4	1 <u>3</u> -8X44	6 <u>2.75.</u> 0 1593.85	Ø298	8XØ22	3175	3210

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ANSI Class 30	0
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VALV	E SIZE	WAFER	LUG	В	С	Е	F	Ζx	Z	Ι	V	I		Р	Р	c	WEIGH	T (Kg)
mm	ins	Α	Α		ins/m	nm		G	Н	J		L		mm	К	3	WAFER	LUG
50	2"	<u>10. 0</u> 254	1 <u>0.315</u> 262	<u>7.480</u> 190	1.693 43	2 <u>.362</u> 60	1 <u>. 06</u> 3 27	0. <u>433*</u> 11*	<u>:0. 4</u> 33 11	oval		4	5/8-11X8	<u>5.00</u> 127	Ø70	4XØ9	4.5	6.1
65	$2\frac{1}{2}$	1 <u>0. 11</u> 8 257	1 <u>1.063</u> 281	<u>7.480</u> 190	<u>1.811</u> 46	<u>2.717</u> 69	1 <u>. 063</u> 27	0. <u>433</u> * 11*	:0. 433 11				3/4-10X8	<u>5.878</u> 149.3	Ø70	4XØ9	5	7
80	3"	1 <u>1. 49</u> 6 292	1 <u>2.165</u> 309	<u>8.504</u> 216	<u>1.929</u> 49	<u>3.228</u> 82	1 <u>. 063</u> 27	0. <u>433</u> * 11*	: <u>0. 4</u> 33 11				3/4-10X8	<u>6.625</u> 168.28	Ø70	4XØ9	6.5	9
100	4"	1 <u>3. 15</u> 0 334	1 <u>3.740</u> 349	<u>9.252</u> 235	<u>2.047</u> 52	<u>4. 173</u> 106	1 <u>. 063</u> 27	0. <u>551</u> * 14*	' <u>0. </u> 551 14				3/4-10X8	<u>7.878</u> 200.1	Ø70	4XØ9	8	14
125	5"	1 <u>3. 81</u> 9 351	1 <u>4.29</u> 1 363	10.00 254	<u>2.244</u> 57	<u>5.039</u> 128	1 <u>. 18</u> 1 30	0. <u>669</u> * 17*	<u>°0. 669</u> 17				3/4-10X8	<u>9.250</u> 234.9	Ø70	4XØ9	10.5	16.5
150	6''	1 <u>5. 66</u> 9 398	1 <u>6.693</u> 424	1 <u>0.945</u> 278	<u>2.402</u> 61	<u>5.984</u> 152	1 <u>. 260</u> 32	0. <u>669</u> * 17*	<u>°0.</u> 669 17				3/4-10X12	1 <u>0.61</u> 8 269.7	Ø70	4XØ9	16.5	22
200	8"	1 <u>9.252</u> 489	1 <u>9.843</u> 504	12.756 324	<u>2.835</u> 72	7 <u>.677</u> 195	1 <u>. 970</u> 50	0. <u>866*</u> 22*	0. 866 22				7/8-9X12	<u>13.00</u> 330.2	Ø102	4XØ11	35	41
250	10"	20.984 533	22.362 568	1 <u>4.016</u> 356	<u>3.268</u> 83	<u>9.724</u> 247	2.362 60	1. <u>063*</u> 27*	1. 063 27	oval		2	1-8X16	1 <u>5.25</u> 0 387.3	Ø102	4XØ11	53	64
300	12"	2 <u>5.945</u> 659	26.771 680	16.811 427	<u>3.622</u> 92	1 <u>1.575</u> 294	2 <u>.75</u> 6 70	1. <u>063*</u> 27*	1. 063 27	oval	\ge	2	1 1 88X16	1 <u>7.75</u> 0 450.8	Ø140	4XØ18	77	90
350	14"	<u>30.55</u> 1 776	30.551 776	18.386 467	<u>4.646</u> 118	1 <u>3.465</u> 342	<u>3.150</u> 80	1. <u>417*</u> 36*	<u>1. 4</u> 17: 36:		1 <u>1</u> 8	4	1 1 8720	2 <u>0.25</u> 0 514.3	Ø165	4XØ21	124	146
400	16"	<u>35.86</u> 6 911	3 <u>5.866</u> 911	23.110 587	<u>5.354</u> 136	1 <u>5.236</u> 387	<u>3.150</u> 80	1. <u>417*</u> 36*	<u>*1. 4</u> 17 36		1 <u>1</u> -8	4	1 <u>1</u> -8X20	<u>22.50</u> 571.5	Ø165	4XØ21	165	220
450	18"	<u>38.18</u> 9 970	3 <u>8.189</u> 970	24.646 626	<u>5.984</u> 152	1 <u>7.322</u> 440	<u>3.543</u> 90	1. <u>417*</u> 36*	<u>*1. 4</u> 17 36		1 <u>1</u> -8	4	1 ¹ / ₄ -8X24	2 <u>4.75</u> 0 628.6	Ø165	4XØ21	218	315
500	20"	$\frac{41.535}{1055}$	$\frac{41.535}{1055}$	26.535 674	<u>6.339</u> 161	1 <u>9.370</u> 492	<u>3.937</u> 100	1. <u>811</u> * 46*	<u>*1. 8</u> 11 46		1 <u>1</u> -8	4	1 ¹ / ₄ -8X24	<u>27.00</u> 685.8	Ø165	4XØ21	298	410
600	24"	<u>48.81</u> 9 1240	4 <u>8.819</u> 1240	30.709 780	7.165 182	2 <u>3.110</u> 587	<u>4.724</u> 120	0.866 22	3.150 80		1 <u>1</u> 8	4	1 ¹ / ₂ -8X24	<u>32.00</u> 812.8	Ø254	8XØ17	340	495
750	30"	55.709 1415	55.709 1415	34.252 870	8.858 225	2 <u>8.425</u> 722	<u>5.118</u> 130	0 <u>.98</u> 4 25	4 <u>.13</u> 4 105		$1\frac{3}{4}-8$	4	1 <u>3</u> -8X28	3 <u>9.25</u> 0 996.95	Ø254	8XØ17	867	1150
900	36"	65.039 1652	6 <u>5.039</u> 1652	40.551 1030	1 <u>0.669</u> 271	3 <u>4.016</u> 864	<u>5.906</u> 150	1 <u>.26</u> 0 32	4 <u>.52</u> 8 115		1 <u>3</u> -8	4	1 ³ / ₄ -8X32	<u>46.00</u> 1168.4	Ø298	8XØ22	1230	1540
1050	42"	68.189 1733	6 <u>8.189</u> 1732	43.189 1097	1 <u>1.496</u> 292	<u>39.29</u> 1 998	<u>6.299</u> 160	1 <u>.417</u> 36	5 <u>.51</u> 2 140		$1\frac{5}{8}-8$	4	1- <u>5</u> -8X32	<u>47.50</u> 1206.6	Ø298	8XØ22	1760	2390
1200	48"	7 <u>5.86</u> 6 1927	7 <u>5.866</u> 1927	47.441 1205	1 <u>2.52</u> 0 318	4 <u>6.457</u> 1180	<u>7.087</u> 180	1 <u>.575</u> 40	6 <u>.29</u> 9 160		1 <u>-7</u> -8	4	1-7-8X32	<u>54.00</u> 1371.6	Ø356	8XØ32	2270	2890

NOTE:



ANSI Class 600

VALV	E SIZE	WAFER	LUG	В	С	Е	F	ZxZ		v	1		P	R	S	WEIGH	IT (Kg)
mm	ins	Α	А		ins/m	im		GΗ	J		L		mm	mm	mm	WAFER	lug
50	2"	10.748	1 <u>0.748</u> 273	7.835 199	<u>1.929</u> 49	<u>2.126</u> 54	<u>1.063</u> 27	0. <u>551*0. 5</u> 51 14*14	oval		4	5/8-11X8	<u>5.00</u> 127	Ø70	4XØ9	7.5	8.5
65	2 <u>1</u> "	10.748 273	1 <u>1.142</u> 283	<u>7.835</u> 199	<u>2.047</u> 52	<u>2.598</u> 66	<u>1.063</u> 27	0. <u>551*0. 5</u> 51 14*14				3/4-10X8	5.878 149.3	Ø70	4XØ9	8.2	9.5
80	3"	12.205 310	1 <u>2.598</u> 320	<u>8.898</u> 226	<u>2.205</u> 56	<u>3.031</u> 77	<u>1.181</u> 30	0. <u>669*0. 669</u> 17*17				3/4-10X8	6.618 168.1	Ø70	4XØ9	10.5	13
100	4"	14.173 360	1 <u>4.370</u> 365	<u>9.724</u> 247	<u>2.756</u> 70	<u>4.016</u> 102	<u>1.181</u> 30	0. <u>669*0. 669</u> 17*17	2			7/8-9X8	<u>8.50</u> 215.9	Ø70	4XØ9	18.5	25
150	6"	18.622 473	1 <u>8.622</u> 473	<u>11.811</u> 300	<u>3.346</u> 85	<u>5.748</u> 146	<u>2.165</u> 55	1. 063*1. 063 27*27		1-8	2	1-8X12	1 <u>1.50</u> 292.1	Ø102	4XØ11	35	53
200	8"	222.99 584	2 <u>2.992</u> 584	1 <u>3.937</u> 354	<u>4.213</u> 107	<u>7.401</u> 188	<u>2.362</u> 60	1.063*1.063 27*27		$1\frac{1}{8}-8$	4	1 <u></u> 8X12	1 <u>3.75</u> 349.3	Ø102	4XØ11	67	101
250	10"	2 <u>6.22</u> 9 668	2 <u>6.22</u> 9 668	1 <u>5.433</u> 392	<u>4.803</u> 122	<u>9.252</u> 235	<u>2.362</u> 60	1. <u>260*1. 2</u> 60 <u>32*32</u>		1 <u>1</u> -8	4	1 <u>1</u> -8X16	1 <u>7.00</u> 431.8	Ø165	4XØ21	120	175
300	12"	30.315 770	3 <u>0.315</u> 770	1 <u>8.307</u> 465	<u>5.512</u> 140	1 <u>1.260</u> 286	<u>2.362</u> 60	1. <u>260*1. 2</u> 60 <u>32*32</u>		1 <u>1</u> -8	4	1 <u>1</u> -8X20	1 <u>9.25</u> 0 489.0	Ø165	4XØ21	170	230
350	14"	<u>35.276</u> 896	3 <u>5.276</u> 896	2 <u>2.362</u> 568	<u>6.103</u> 155	1 <u>2.835</u> 326	<u>2.953</u> 75	1. <u>417*1. 4</u> 17 36*36		$1\frac{3}{8}$ -8	4	1 ³ / ₈ -8X20	20.750 527.1	Ø165	4XØ21	231	327
400	16"	39.528 1004	3 <u>9.52</u> 8 1004	2 <u>4.843</u> 631	7.008 178	1 <u>4.843</u> 377	<u>3.543</u> 90	1. <u>811*1. 8</u> 11 46*46		1 <u>1</u> -8	4	1 <u>1</u> -8X20	2 <u>3.75</u> 0 603.3	¢165	4XØ21	325	482
450	18"	<u>45.551</u> 1157	<u>45.55</u> 1 1157	2 <u>9.685</u> 754	7.756 197	1 <u>6.654</u> 423	<u>3.937</u> 100	0.866 <u>3.150</u> 22 80		$1\frac{5}{8}8$	4	1- <u>5</u> -8X20	2 <u>5.75</u> 0 654.1	Ø254	8XØ17	480	652
500	20"	<u>49.33</u> 1 1253	<u>49.33</u> 1 1253	31.732 806	8.504 216	1 <u>8.465</u> 469	<u>4.724</u> 120	0.984 <u>4.134</u> 25 105		1 <u>-</u> 5-8	4	1- <u>5</u> -8X24	28.50 723.9	Ø254	8XØ17	605	815
600	24"	58.780 1493	58.780 1493	31.260 794	<u>9.134</u> 232	22.283	<u>5.906</u> 150	1.260 4.52832 115		$1\frac{7}{8}-8$	4	1-7-8X24	3 <u>3.0</u> 0 838.2	Ø298	8XØ22	950	1285

NOTE:

Dimensions

Double Flange

Flanged Valves



ANSI Class 150

VALV	E SIZE	A	В	L		F	Z	хZ	R	S	WFIGH	T (Ka)
mm	ins	ins mm	ins mm	Long	Short	<u>ins</u> mm	H	G	mm	mm	Long	Short
80	3"	1 <u>2.71</u> 7 323	8 <u>.97</u> 6 228	<u>8.07</u> 1 205	4.488 114	<u>1.063</u> 27	0. 4 <u>33*0. 4</u> 33 11*11		Ø70	4XØ9	26	19
100	4"	1 <u>4.64</u> 6 372	1 <u>0.15</u> 7 258	9 <u>.01</u> 6 229	<u>5.00</u> 127	<u>1.063</u> 27	0. 5 <u>51</u> 14 [:]	<u>*0.</u> 551 *14	Ø70	4XØ9	34	25
125	5"	1 <u>5.90</u> 6 404	1 <u>0.90</u> 6 277	1 <u>0.00</u> 254	5.512 140	1 <u>.18</u> 1 30	0. <u>669</u> 17 [:]	<u>*0.</u> 669 *17	Ø70	4XØ9	42	30
150	6"	1 <u>6.96</u> 9 431	1 <u>1.45</u> 7 291	1 <u>0.51</u> 2 267	<u>5.512</u> 140	1 <u>.26</u> 0 32	0. <u>669</u> 17 [:]	<u>*0. </u> 669 *17	Ø70	4XØ9	49	34
200	8"	1 <u>9.84</u> 3 504	1 <u>3.09</u> 1 332.5	1 <u>1.49</u> 6 292	<u>5.98</u> 4 152	1 <u>.77</u> 2 45	0. <u>669</u> 17 ³	<u>*0.</u> 669 *17	Ø70	4XØ9	77	51
250	10"	2 <u>1.69</u> 3 551	1 <u>3.70</u> 1 348	1 <u>1.81</u> 1 300	6 <u>.49</u> 6 165	1 <u>.96</u> 9 50	0. <u>866</u> 22	<u>*0. 8</u> 66 *22	Ø102	4XØ11	102	78
300	12"	2 <u>5.27</u> 6 642	1 <u>5.74</u> 8 400	1 <u>4.01</u> 6 356	7 <u>.008</u> 178	2 <u>.36</u> 2 60	1. <u>063</u> 27	<u>*1. 0</u> 63 *27	Ø140	4XØ18	160	112
350	14"	2 <u>9.05</u> 5 738	1 <u>8.15</u> 0 461	1 <u>5.00</u> 381	7 <u>.52</u> 0 191	2 <u>.36</u> 2 60	1. 0 <u>63</u> 27	<u>*1. 0</u> 63 *27	Ø140	4XØ18	198	141
400	16"	3 <u>0.35</u> 4 771	1 <u>8.62</u> 2 473	1 <u>5.98</u> 4 406	8.504 216	3 <u>.15</u> 0 80	1. 0 <u>63</u> 27	<u>*1. 0</u> 63 *27	Ø165	4XØ21	233	175
450	18"	3 <u>5.67</u> 0 906	2 <u>3.15</u> 0 588	1 <u>7.00</u> 8 432	8 <u>.76</u> 0 222.5	3 <u>.54</u> 3 90	1. <u>417</u> 36	<u>*1. 4</u> 17 *36	Ø165	4XØ21	272	213
500	20"	3 <u>8.07</u> 1 967	2 <u>4,33</u> 1 618	1 <u>7.99</u> 2 457	9 <u>.01</u> 6 229	3 <u>.54</u> 3 90	1. <u>417</u> 36	<u>*1. 4</u> 17 *36	Ø165	4XØ21	351	262
600	24"	4 <u>3.18</u> 9 1097	2 <u>7,20</u> 5 691	2 <u>0.0</u> 0 508	1 <u>0.51</u> 2 267	4 <u>.33</u> 1 110	1. <u>811</u> 46	<u>*1. 8</u> 11 *46	Ø165	4XØ21	493	386
750	30"	5 <u>0.90</u> 6 1293	3 <u>1.53</u> 5 801	2 <u>4.01</u> 6 610	1 <u>2.52</u> 0 318	4 <u>.72</u> 4 120	3 <u>.150</u> 80	0 <u>.86</u> 6 22	Ø165	4XØ21	652	598
900	36"	5 <u>9.40</u> 9 1509	3 <u>6.41</u> 7 925	2 <u>7.99</u> 2 711	1 <u>2.99</u> 2 330	4 <u>.72</u> 4 120	3 <u>.150</u> 80	0 <u>.86</u> 6 22	Ø254	8XØ17	869	789

ANSI Class 300

VALV	e size	.A	В	L	-	.F	Z>	κZ	R	S	WEIGH	łT (Kg)
mm	ins	mm	mm	Long	Short	mm	Н	G	mm	mm	Long	Short
80	3"	1 <u>2.71</u> 7 323	8 <u>.976</u> 228	8.071 205	4.488 114	<u>1.063</u> 27	0. <u>433</u> 11	<u>*0. 4</u> 33 *11	Ø70	4XØ9	30	21
100	4"	1 <u>5.15</u> 7 385	1 <u>0.15</u> 7 258	1 <u>2.00</u> 1 305	<u>5.00</u> 127	1 <u>. 06</u> 3 27	0. <u>551</u> 14'	<u>*0. 5</u> 51 *14	Ø70	4XØ9	46	25
125	5"	1 <u>6.45</u> 7 418	1 <u>0.90</u> 6 277	1 <u>5.00</u> 381	<u>5.512</u> 140	1 <u>. 18</u> 1 30	0. <u>669</u> 17 ³	<u>*0. 669</u> *17	Ø70	4XØ9	59	42
150	6"	1 <u>7.83</u> 5 453	1 <u>1.61</u> 4 295	1 <u>5.86</u> 6 403	<u>5,512</u> 140	1 <u>. 260</u> 32	0. <u>669</u> 17 [;]	<u>*0. 6</u> 69 *17	Ø70	4XØ9	79	51
200	8"	2 <u>0.47</u> 2 520	1 <u>2.99</u> 2 330	1 <u>6.49</u> 6 419	<u>5.984</u> 152	1 <u>. 969</u> 50	0. <u>866</u> 22 ³	<u>*0. 866</u> *22	Ø102	4XØ11	109	83
250	10"	2 <u>2.95</u> 3 583	1 <u>4,21</u> 2 361	1 <u>8.70</u> 1 475	<u>6.496</u> 165	2.362 60	1. 0 <u>63</u> 27 [:]	<u>*1. 0</u> 63 *27	Ø102	4XØ11	135	124
300	12"	2 <u>7,32</u> 2 694	1 <u>7.04</u> 7 433	1 <u>9.76</u> 4 502	7 <u>.008</u> 178	2 <u>. 75</u> 6 70	1.0 <u>63</u> 27	<u>*1. 0</u> 63 *27	¢140	4XØ18	211	173
350	14"	2 <u>9.88</u> 2 759	1 <u>8.38</u> 6 467	3 <u>0.0</u> 0 762	7 <u>.52</u> 0 191	<u>3.150</u> 80	1. 4 <u>17</u> 36	<u>*1. 4</u> 17 *36	Ø165	4XØ21	330	235
400	16"	3 <u>5.82</u> 7 910	2 <u>3.07</u> 1 586	3 <u>2.99</u> 2 838	8 <u>.504</u> 216	<u>3.150</u> 80	1. <u>417</u> 36 ³	<u>*1. 4</u> 17 *36	Ø165	4XØ21	423	329
450	18"	3 <u>8.62</u> 2 981	2 <u>4.64</u> 6 626	3 <u>5.98</u> 4 914	8 <u>.85</u> 8 225	<u>3.543</u> 90	1. <u>417</u> 36 ³	<u>*1. 4</u> 17 *36	Ø165	4XØ21	574	457
500	20"	5 <u>3.11</u> 0 1349	2 <u>6.53</u> 5 674	3 <u>9.01</u> 6 991	9 <u>.016</u> 229	<u>3.937</u> 100	1. <u>811</u> 46*	<u>*1.</u> 811 46	Ø165	4XØ21	660	522
600	24"	4 <u>8.74</u> 0 1238	3 <u>0.70</u> 9 780	4 <u>5.0</u> 0 1143	1 <u>0.43</u> 3 265	<u>4.724</u> 120	3 <u>.150</u> 80	0 <u>.866</u> 22	Ø254	8XØ17	862	808



NOTE:



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Tel: +86-577-8873-2275



PN4.	OMPa	ł
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VALV	E SIZE	WAFER	LUG	D	<u> </u>	Е	Е	Z>	κZ	1	ĸ	I	M v N	Р	R	S	WEGH	ſT (Kg)
DN	ins	Α	А	Б	C		Г	G	Η	J	ĸ	L	IVI X IN	mm	mm	mm	WAFER	lug
50	2"	254	262	190	43	60	27	11*	11*11			4	M16X4	125	Ø70	4XØ9	4.5	6.1
65	$2\frac{1}{2}$	257	281	190	46	69	27	11*	:11				M16X8	145	Ø70	4XØ9	5	7
80	3"	292	309	216	49	82	27	11*	:11			\sim	M16X8	160	Ø70	4XØ9	6.5	9
100	4"	334	349	235	52	106	27	14*	14				M20X8	190	Ø70	4XØ9	8	14
125	5"	351	363	254	57	128	30	17*	17			\geq	M24X8	220	Ø70	4XØ9	10.5	16.5
150	6"	398	424	278	61	152	32	17*	17				M24X8	250	Ø70	4XØ9	16.5	22
200	8"	489	504	324	72	195	50	22*	22				M27X12	320	Ø102	4XØ11	35	41
250	10"	533	568	356	83	247	60	27*	27*27			2	M30X12	385	Ø102	4XØ11	53	64
300	12"	659	680	427	92	294	70	27*	27	oval		2	M30X16	450	Ø140	4XØ18	77	90
350	14"	776	776	467.1	118	342	80	36*	36		M33	4	M33X16	510	Ø165	4XØ21	124	146
400	16"	911	911	586.5	136	387	80	36*	36		M36	4	M36X16	585	Ø165	4XØ21	165	220
450	18"	970	970	626	152	440	90	36*	36		M36	4	M36X20	610	Ø165	4XØ21	218	315
500	20"	1055	1055	674	161	492.1	100	45*	45		M39	4	M39X20	670	Ø165	4XØ21	298	410
600	24"	1240	1240	780	182	587	120	22	80		M45	4	M45X20	795	Ø254	8XØ17	340	495
700	28"	1355	1355	840	225	667	130	25	105		M45	4	M45X24	900	Ø254	8XØ17	530	660
900	36"	1652	1651	1030	271	864	150	32	115		M52	4	M52X28	1140	¢298	8XØ22	1230	1540
1000	40"	1710	1710	1055	292	910	160	36	140		M52	4	M52X28	1250	Ø298	8XØ22	1450	1980
1200	48''	1927	1927	1205	318	1180	180	40	160		M56	4	M56X32	1371.6	Ø356	8XØ32	2270	2890

NOTE:



PN10.0MPa

VALV	E SIZE	WAFER	LUG	В	<u> </u>	г	F	ZxZ		ĸ	L	MXN	Р	R	S	WEIGH	ſſ (Kg)
DN	ins	А	А		C			GH		JK			mm	mm	mm	WAFER	LUG
50	2"	273	273	199	49	54.1	27	14*14	ova	.1	4	M24X8	145	Ø70	4XØ9	7.5	8.5
65	$2\frac{1}{2}$	273	283	199	52	64.6	27	14*14				M24X8	170	Ø70	4XØ9	8.2	9.5
80	3"	310	320	226	56	77.4	30	17*17				M24X8	180	Ø70	4XØ9	10.5	13
100	4''	360	365	247	70	101.8	30	17*17				M27X8	210	Ø70	4XØ9	18.5	25
150	6"	473	473	300	85	145.6	55	27*27		M30	2	M30X12	290	Ø102	4XØ11	35	53
200	8"	584	584	354	107	188.7	60	27*27		M33	4	M33X12	360	Ø102	4XØ11	67	101
250	10"	668	668	392	122	235.1	60	32*32		M36	4	M36X12	430	Ø165	4XØ21	120	175
300	12"	770	770	465	140	285.7	60	32*32		M39	4	M39X16	500	Ø165	4XØ21	170	230
350	14"	896	896	568	155	326.2	75	36*36		M45	4	M45X16	560	Ø165	4XØ21	231	327
400	16"	1004	1004	631	178	377.3	90	46*46		M45	4	M45X16	620	Ø165	4XØ21	325	482
500	20"	1253	1253	806	216	468.6	120	25 10	5	M52	4	M52X20	760	Ø254	8XØ17	605	815
600	24"	1493	1493	794	232	565.5	150	32 11	5	M56	4	M56X20	875	¢298	8XØ22	950	1285

NOTE:

Dimensions

Double Flange

PN1.6MP/PN2.5MPa

Flanged Valves



VALVE SIZE			D	L		с	Z x Z		R	S	WEIGHT (Kg)	
DN	ins	А	D	Long	Short	Г	Н	G	mm	mm	Long	Short
80	3"	323	227	205	114	-27	11*11		Ø70	4XØ9	26	19
100	4"	373	259	229	127	27	14*14		Ø70	4XØ9	34	25
125	5"	404	277	254	- 140 -	- 30	17*17		Ø70	4XØ9	42	30
150	6"	431	291	267	140	32	17*17		Ø70	4XØ9	49	34
200	8"	504	332	292	-140	45	17*17		Ø70	4XØ9	77	51
250	10"	551	348.2	300	165	50	22*22		Ø102	4XØ11	102	78
300	12"	642	400	356	178	-60	27*27		Ø140	4XØ18	160	112
350	14"	738	462	381	191	60	27*27		Ø140	4XØ18	198	141
400	16"	771	473	406	216	80	27*27		Ø165	4XØ21	233	175
450	18"	906	589	432	223	90	36*36		Ø165	4XØ21	272	213
500	20"	968	618	457	229	90	36*36		Ø165	4XØ21	351	262
600	24"	1098	691	508	267	110	46*46		Ø165	4XØ21	493	386
700	28"	1243	736		292	-110-	46*46		Ø165	4XØ21		420
750	30"	1293	801	610	318	120	80 22		Ø165	4XØ21	652	598
800	32"	1368	820		318	120	80 22		Ø165	4XØ21		660
900	36"	1509	925	711	330	120	80 22		Ø254	8XØ17	869	789

PN4. OMPa



VALVE SIZE		٨	D	L			ΖxΖ		R	S	WEIGHT (Kg)	
DN	ins	А	A		Short		Н	G	mm	mm	Long	Short
80	3"	332	228	202	-114-	27	11*11		Ø70	4XØ9	30	21
100	4"	385	258	305	127	27	14*14		Ø70	4XØ9	46	25
125	5"	418	277	381	140	-30	17*17		Ø70	4XØ9	59	42
150	6"	453	295	403	140	32	17*17		Ø70	4XØ9	79	51
200	8"	520	330	419	152	50	22*22		ø102	4XØ11	109	83
250	10"	583	361	475	165	60	27*27		Ø102	4XØ11	135	124
300	12"	694	433	502	178	70	27*27		Ø140	4XØ18	211	173
350	14"	759	467	762	191	80	36*36		Ø165	4XØ21	330	235
400	16"	910	586	838	216	80	36*36		Ø165	4XØ21	423	329
450	18"	981	625	914	225	90	36*36		Ø165	4XØ21	574	457
500	20"	1349	674	991	229	100	46*46		Ø165	4XØ21	660	522
600	24"	1238	780	1143	265	120	80 22		Ø254	8XØ17	862	808

NOTE: