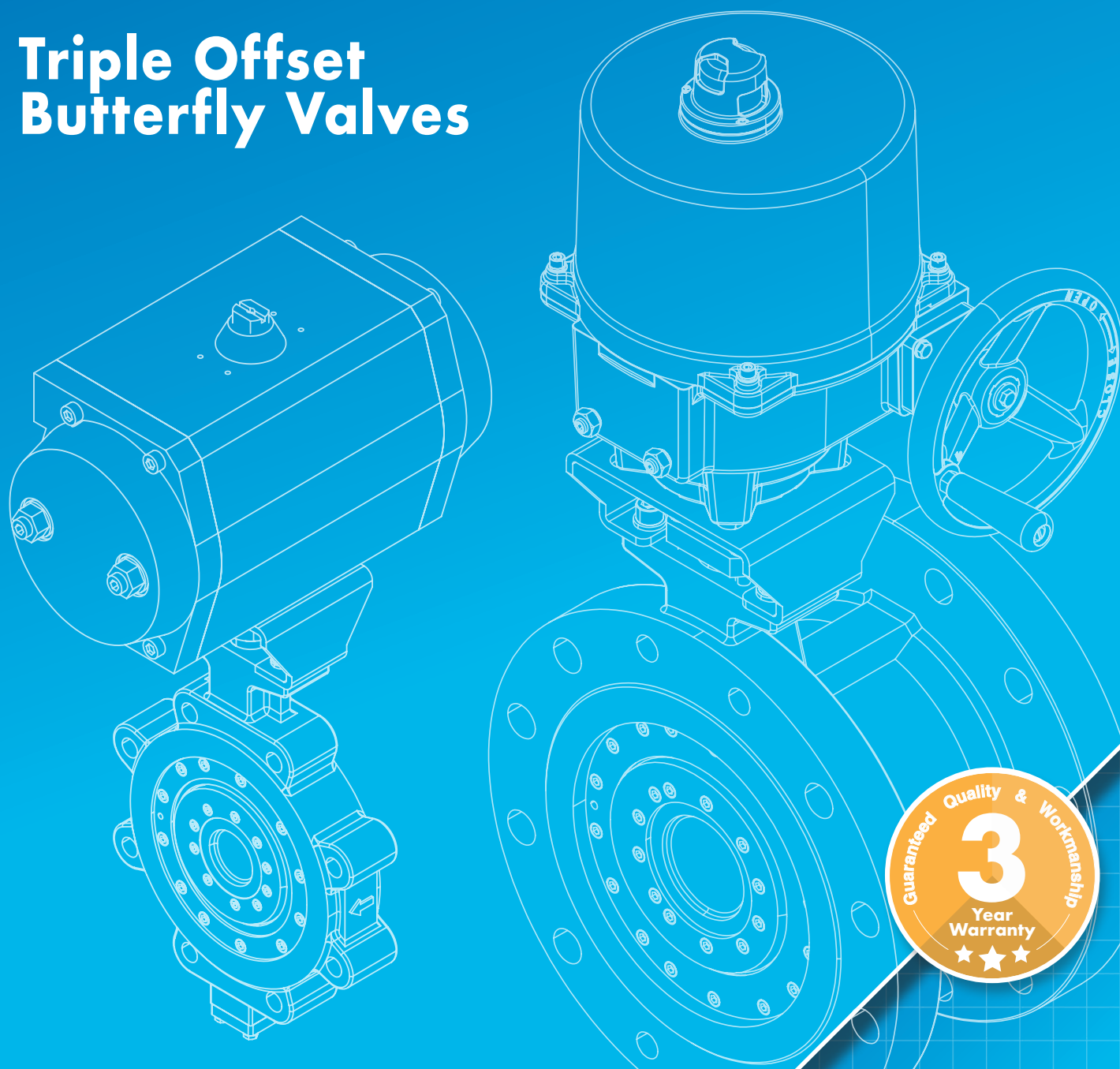




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Triple Offset Butterfly Valves

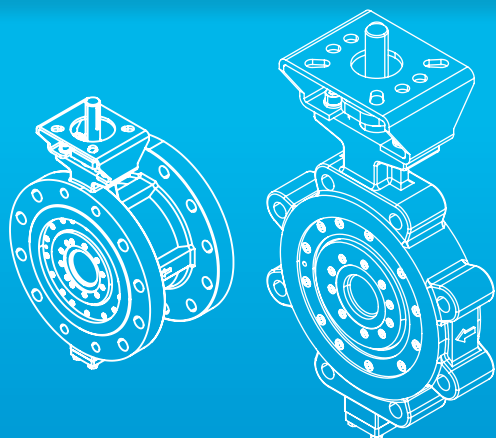


Triple Offset Butterfly Technical Brochure

Max-Air Technology Inc. | Rotary Actuators & Valve Automation Solutions

Triple Offset Butterfly Valves

Standard & Exotic Alloy Triple Offset Butterfly Valves



Delta T Triple Offset Butterfly Valves provide zero-leakage sealing, durability, and precise flow control for demanding applications. Designed with triple offset geometry, they minimize seat wear while ensuring Class VI / Bubble-Tight performance. Available in multiple pressure classes and styles, they feature a blowout-proof stem, stainless steel components, and a replaceable seat for long-term reliability.

900 Series Part # Builder

A-SIZE	-	B-CODE	-	C-BODY	-	D-DISC	-	E-STEM	-	F-SEAT	-	G-OPERATOR	-	H-SPECIAL
040	-	951	-	S	-	S	-	P	-	J	-	BST	-	N/A

Example Part # 040-951-SSPJ-BST

EXAMPLE DESCRIPTION: 4" 951 TRIPLE OFFSET BUTTERFLY VALVE, CLASS 150 ANSI LUG, STAINLESS STEEL A351 CF8M BODY, STAINLESS STEEL A351 CF8M DISC, 17-4PH STEM, 316SS + GRAPHITE DISC SEAL, 316SS + HF BODY SEAT, GRAPHITE PACKING, BARE STEM

A - SIZE			B - CODE	
030-3"	180-18"	420-42"	950 - CLASS 150 - ANSI WAFER	961 - CLASS 300 - ANSI LUG
040-4"	200-20"	480-48"	95M - CLASS 150 - DIN WAFER	962 - CLASS 300 - DIN LUG
050-5"	240-24"	540-54"	951 - CLASS 150 - ANSI LUG	963 - CLASS 300 - ISO 5752 FLANGED (SHORT)
060-6"	260-26"	560-56"	952 - CLASS 150 - DIN LUG	964 - CLASS 300 - B16.10 FLANGED (LONG)
080-8"	280-28"	600-60"	953 - CLASS 150 - ISO 5752 FLANGED (SHORT)	970 - CLASS 600 - ANSI WAFER
100-10"	300-30"	640-64"	954 - CLASS 150 - B16.10 FLANGED (LONG)	97M - CLASS 600 - DIN WAFER
120-12"	320-32"	720-72"	955 - CLASS 150 - AWWA FLANGED	971 - CLASS 600 - ANSI LUG
140-14"	360-36"		960 - CLASS 300 - ANSI WAFER	972 - CLASS 600 - DIN LUG
160-16"	400-40"		96M - CLASS 300 - DIN WAFER	

C - BODY

A - ALLOY 20 UNS N08020

B - ALUMINUM BRONZE ASTM B148 C95800

C - CARBON STEEL ASTM A216 WCB (BODY, DISC)

D - DUPLEX STAINLESS STEEL UNS S32205

E - SUPER DUPLEX STAINLESS STEEL UNS S32750

F - 316 STAINLESS STEEL + HF STELLITE

G - SMO 254 UNS S31254

H - HASTELLOY C-276 UNS N10276

I - INCONEL 625 UNS N06625

J - INCONEL 718 UNS N07718

K - MONEL K500 UNS N05500

L - CARBON STEEL ASTM A352 LCB (BODY, DISC)

M - MONEL 400 UNS N04400

N - XM-19 NITRONIC 50 UNS S20910

O - 316 STAINLESS STEEL UNS S31600

S - STAINLESS STEEL ASTM A351 CF8M (BODY, DISC)

T - TITANIUM ASTM B367 GRADE C2 (BODY, DISC)

V - STAINLESS STEEL ASTM A182 F53

W - STAINLESS STEEL ASTM A351 CF8

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D - DISC

A - ALLOY 20 UNS N08020
B - ALUMINUM BRONZE ASTM B148 C95800
C - CARBON STEEL ASTM A216 WCB (BODY, DISC)
D - DUPLEX STAINLESS STEEL UNS S32205
E - SUPER DUPLEX STAINLESS STEEL UNS S32750
F - 316 STAINLESS STEEL + HF STELLITE
G - SMO 254 UNS S31254
H - HASTELLOY C-276 UNS N10276
I - INCONEL 625 UNS N06625
J - INCONEL 718 UNS N07718
K - MONEL K500 UNS N05500

L - CARBON STEEL ASTM A352 LCB (BODY, DISC)
M - MONEL 400 UNS N04400
N - XM-19 NITRONIC 50 UNS S20910
O - 316 STAINLESS STEEL UNS S31600
S - STAINLESS STEEL ASTM A351 CF8M (BODY, DISC)
T - TITANIUM ASTM B367 GRADE C2 (BODY, DISC)
V - STAINLESS STEEL ASTM A182 F53
W - STAINLESS STEEL ASTM A351 CF8

E - STEM

A - ALLOY 20 UNS N08020
B - ALUMINUM BRONZE ASTM B148 C95800
D - DUPLEX STAINLESS STEEL UNS S32205
E - SUPER DUPLEX STAINLESS STEEL UNS S32750
F - 316 STAINLESS STEEL + HF STELLITE
G - SMO 254 UNS S31254
H - HASTELLOY C-276 UNS N10276
I - INCONEL 625 UNS N06625
J - INCONEL 718 UNS N07718
K - MONEL K500 UNS N05500
M - MONEL 400 UNS N04400

N - XM-19 NITRONIC 50 UNS S20910
O - 316 STAINLESS STEEL UNS S31600
P - 17-4PH STAINLESS STEEL ASTM A564 TYPE 630 (STEM)
Q - AISI 4140 UNS 41400 (STEM)
V - STAINLESS STEEL ASTM A182 F53
W - STAINLESS STEEL ASTM A351 CF8

F - SEAT

P - PTFE
R - RTFE
T - TFM 1600
U - UHMWPE
M - METAL SEATED SAME AS DISC
N - INCONEL 625+STELLITE 21 BODY SEAT,
INCONEL 625+GRAPHITE LAMINATE DISC SEAL
F - RTFE + 316SS FIRE SAFE
G - RTFE + INCONEL 600 FIRE SAFE
H - TFM 1600 + 316SS FIRE SAFE

H - TFM 1600 + 316SS FIRE SAFE
I - TFM 1600 + INCONEL 600 FIRE SAFE
J - 316SS + GRAPHITE LAMINATED DISC / 316SS + HF BODY
K - 2205SS + GRAPHITE LAMINATED DISC / 316SS + HF BODY
L - XM-19 NITRONIC 50 DISC / 316SS + HF BODY (NO GRAPHITE)

G - OPERATOR

BST - BARE STEM
HND - LEVER HANDLE
GOP - GEAR OPERATOR
Cxx - CHAINWHEEL OPERATOR, "xx" LENGTH
("xx" = LENGTH)

E - SPECIAL

BLANK - (NONE)
XS - EXTENDED BONNET/STEM
HC - HARD CHROME COATED DISC
EN - ENP COATED DISC
HF - HARD FACE STELLITED DISC
O2 - CLEANED AND BAGGED FOR OXYGEN SERVICE
SF - SILICONE FREE CLEANED
VS - VACUUM SERVICE

Note: Custom face to face available upon request

*Note: 1) Not all combinations available, and special solutions not shown are possible. Please call factory for details.
2) Max-Air Technology reserves the right to change or modify products without prior notice & without incurring any obligation to make such changes on products previously or subsequently sold.

Triple Offset Butterfly Valves

Standard & Exotic Alloy Triple Offset Butterfly Valves

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3-YEAR LIMITED WARRANTY

Max-Air Technology Inc. | The Best Way to Automate Your Process

Max-Air Technology provides the following warranty regarding its products. THE WARRANTY STATED HEREIN IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES AND REPRESENTATIONS, EXPRESSED OR IMPLIED, OR STATUTORY, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE. Max-Air Technology warrants its products shall be delivered free from defects in materials and workmanship when these products are used for the purpose for which they were designed and manufactured. Max-Air Technology does not warrant its products against chemical or stress corrosion or against any other failure other than from defects in materials or workmanship. The applicable warranty period is dependent on the clearly identified brand labeling.

**The warranty period for Max-Air, Max-Electric, Delta T, and Sesto Valves brand labeled products
is for thirty-six (36) months from the delivery date to the Purchaser.**

Any claims regarding this warranty must be in writing and received by Max-Air Technology before the last effective date of the warranty period, failing which this warranty shall expire. Upon Max-Air Technology's receipt of a warranty claim, Max-Air Technology reserves the right to inspect the product(s) in question at either the field location or at Max-Air Technology manufacturing plant. If, after inspection of the product(s) in question, Max-Air Technology determines that the Purchaser's claim is covered by this warranty, Max-Air Technology's sole liability and the Purchaser's sole remedy under this warranty is limited to the refunding of the purchase price or repair or replacement thereof at Max-Air Technology's option. Warranty repair, replacement or re-performance by Seller shall not extend or renew the applicable warranty period. Max-Air Technology will not be liable for any repairs, labor, material or other expenses that are not specifically authorized in writing by Max-Air Technology, and in no event shall Max-Air Technology be liable for any direct, indirect or consequential damages arising out of any defect from any cause whatsoever. If any Max-Air Technology product is modified or altered at any location other than Max-Air Technology – Wentzville (Missouri) or Max-Air Technology – Agrate Brianza (MB) ITALY without the express written authorization of Max-Air Technology, it is expressly not covered by this warranty. The warranties and remedies are conditioned upon (a) proper storage, installation, use, operation, and maintenance of products, (b) Purchaser keeping accurate and complete records of operation and maintenance during the warranty period and providing Max-Air Technology access to those records, and (c) modification or repair of products only as authorized by Max-Air Technology in writing. Failure to meet any such conditions renders the warranty null and void. Max-Air Technology is not responsible for normal wear and tear. The warranty for such products shall be subject only to the warranty relief, if any, provided by the suppliers and/or manufacturers of such products.

Features & Benefits

Standard & Exotic Alloy Triple Offset Butterfly Valves

Triple Offset Butterfly Valves

Delta T Triple Offset Butterfly Valves are designed for the most demanding applications where zero leakage, durability, and precision control are critical. Engineered with an advanced triple offset geometry, these valves eliminate friction between the seat and disc, ensuring Class VI / Bubble-Tight sealing in the preferred direction while significantly extending service life.

With precision-engineered performance and superior sealing reliability, Delta T Triple Offset Butterfly Valves redefine efficiency and longevity in critical flow control applications.

Features:

- ANSI 150 & 300 in all styles (3" - 48")
- ANSI 600 Lug Style Only (4" - 24")
- Wafer, Lugged, & Flanged styles
- Blow out proof stem design
- ISO 5211 mounting is standard
- Bi-directional dead end service (lug and flanged type)

Certifications and Compliance

DeltaT Triple Offset Butterfly Valves are designed and manufactured to internationally recognized standards including but not limited to the following:

Fire Testing: API 6FA / API 607

Actuator Mounting: ISO 5211

Face to Face: API 609, ASME B16.10, ISO 5752

Seat Testing: API 598, ISO 5258

Flange Drilling: ASME B16.5, ASME B16.47

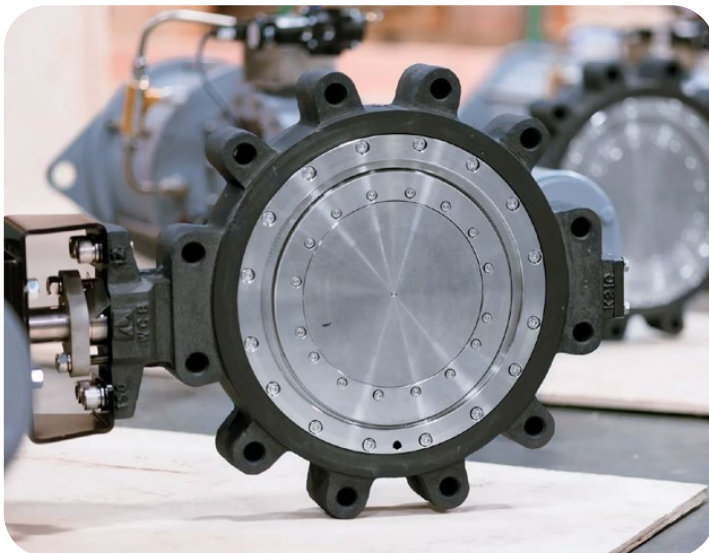
Valve Marking: MSS-SP-25, ASME B16.34

Fugitive Emissions: ISO 15848 Certified



Specifications:

Ambient Temp.	-20°F to 800°F
Body Material	A216 WCB, A351 CF8M, + more
Stem Material	AST MA564/S17400
Stem	Standard ISO - square / keyed
Mounting	Standard ISO 5211
Body Seat	Laminated Field Repairable
Disc Seat	Field Repairable
Max Pressure Rating	Class 150, 300, 600
Additional Options	Handles, Infinite Locking Plates, Manual Gear Operators, Chainwheels, Stem Extensions, Operator Nuts, Flange Bolt Kits



95X/96X/97X Series Technical Brochure

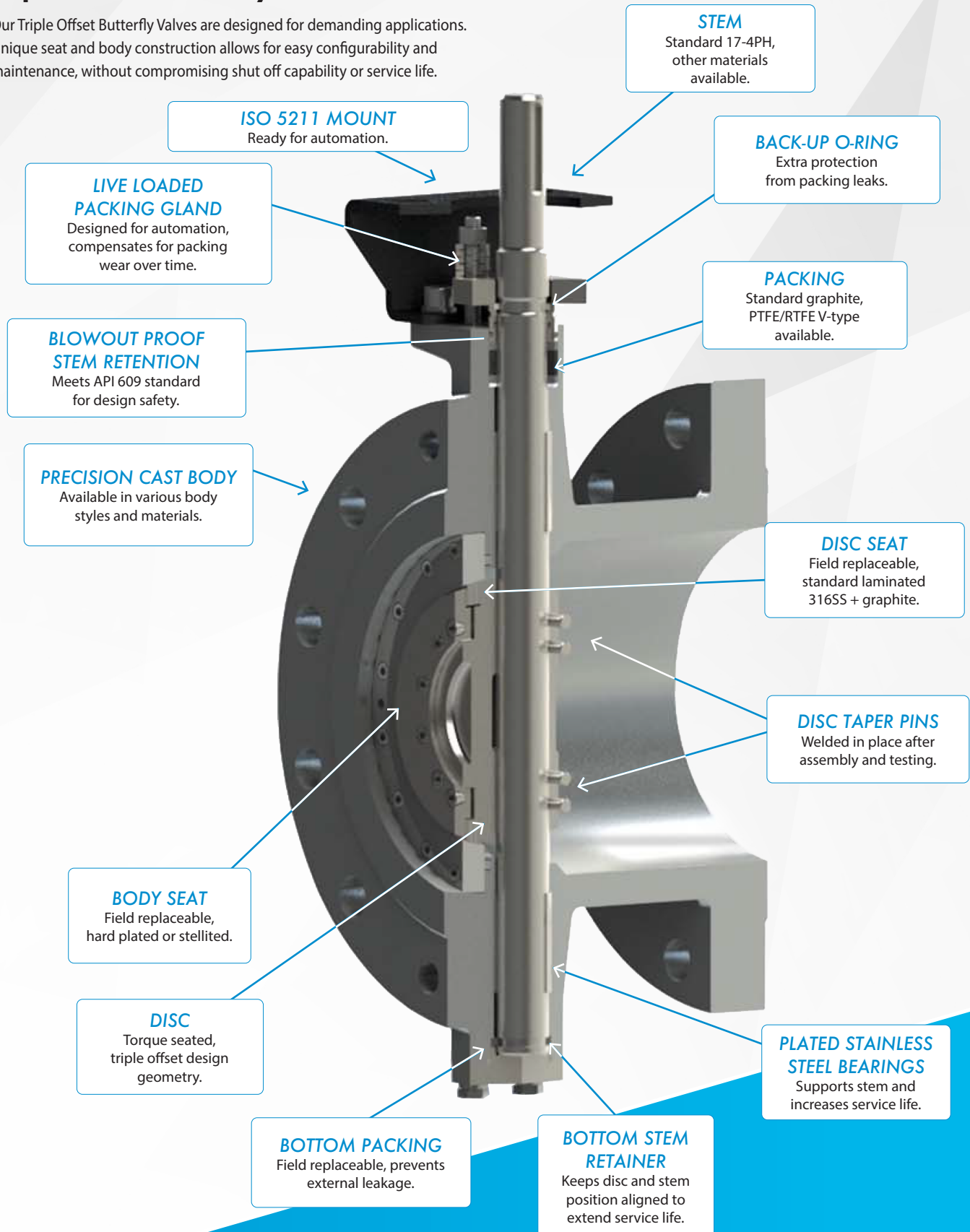
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Triple Offset Butterfly Valves

Our Triple Offset Butterfly Valves are designed for demanding applications. Unique seat and body construction allows for easy configurability and maintenance, without compromising shut off capability or service life.

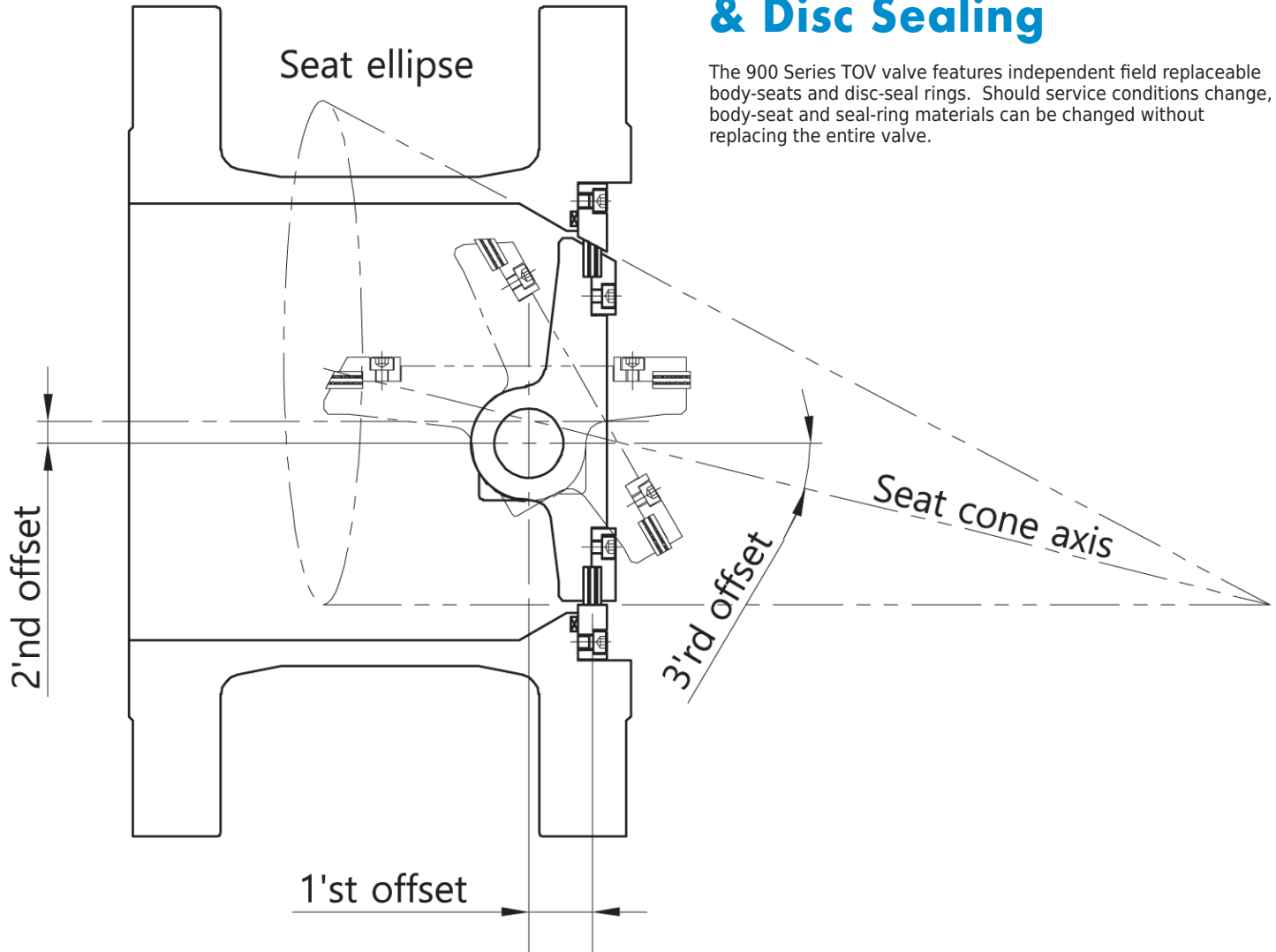


Features & Benefits (Cont.)

Standard & Exotic Alloy Triple Offset Butterfly Valves

Replaceable Body-Seat & Disc Sealing

The 900 Series TOV valve features independent field replaceable body-seats and disc-seal rings. Should service conditions change, body-seat and seal-ring materials can be changed without replacing the entire valve.



Triple Offset Geometry

The 900 Series Triple Offset High Performance Butterfly Valve (TOV) is designed with three offsets so that when the valve starts to close, torque is the primary force to seat the valve. This means that the valve can increase the torque on the sealing surfaces such that a better seal can be realized. The seats are made of a laminate of stainless steel and graphite, and are commonly replaceable when required. The TOV does not function like a normal butterfly valve that is seated by positioning the disc using a lever, gear, or body stop. The TOV are similar to globe valves in that the disc acts like a

cone being torqued into a circular seat. The only method to obtain zero leakage with metal seats is to design a conical surface (cone) into a circle. The three offsets designed into the valve stem and disc alignment allow it to rotate 90 degrees with the last degree of motion being a linear, straight-forward cone movement. The body seat of the valve is not a perfect "cone", but rather it is offset and machined at an angle so the disc will align with no rubbing or sliding motion when seating. Triple offset valves can be manufactured in lug, wafer, and flanged.

95X/96X/97X Series Technical Brochure

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Finish & Operation Options

Automation, Manual Operators, Tee/Wye Configurations, & Treatments

Valve & Disc Treatment/Finish Options

Oxygen Cleaning & Silicone Free



Silicone Free

Why silicone free treatment?

Silicone Free cleaning is conducted on valves in order to prevent silicone contamination within processes (such as automotive painting) that are sensitive to silicone. The valves are subsequently sealed within polyethylene bags to prevent recontamination prior to installation.

What's treated?

Total Valve



Oxygen Clean

Why oxygen clean treatment?

Oxygen cleaning is conducted on valves to prevent the potentially violent oxidation (fire or explosion) of contaminants (most often hydrocarbons) on the surfaces exposed to oxygen within a process. The valves are subsequently sealed within polyethylene bags to prevent recontamination prior to installation.

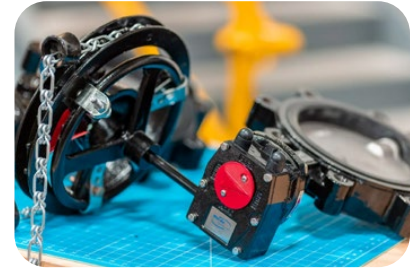
What's treated?

Total Valve

Manual Operators

Options for Manual Operation of Butterfly Valves:

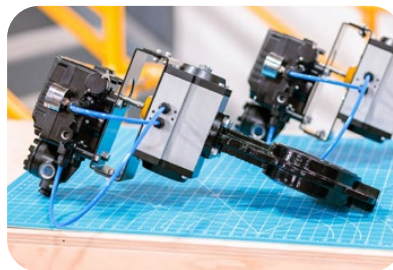
- Handle Operator
- Handle Operator w/ Limit Switch
- Gear Operator
- Gear Operator w/ Chainwheel
- Gear Operator w/ Lockout
- Gear Operator w/ Limit Switch



Pneumatic Automation

Options for Pneumatic Automation of Butterfly Valves:

- Rack & Pinion Actuators
- Scotch Yoke Actuators
- Limit Switch & Positioners
- Declutchable Override
- Tee Assembly
- Hazardous Locations



Electric Automation

Options for Electric Automation of Butterfly Valves:

- Electric Actuators w/ Manual Override
- Electric Actuators w/ Failsafe
- Battery Backup Units
- Tee Assembly
- Hazardous Locations

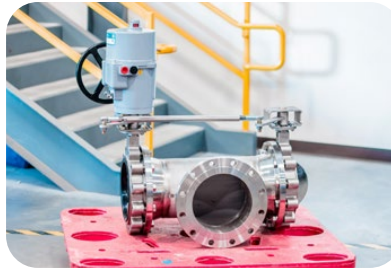




Multiport Options

Options for Multiport Automation of Butterfly Valves:

- Ductile Iron Tee Assembly w/ Linkage
- Stainless Tee Assembly w/ Linkage
- Ductile Iron Wye Assembly w/ Linkage
- Stainless Wye Assembly w/ Linkage



Stem Extensions

Options for Stem Extension of Butterfly Valves:

- Carbon Stem Extensions
- Stainless Stem Extensions
- Custom Lengths Available

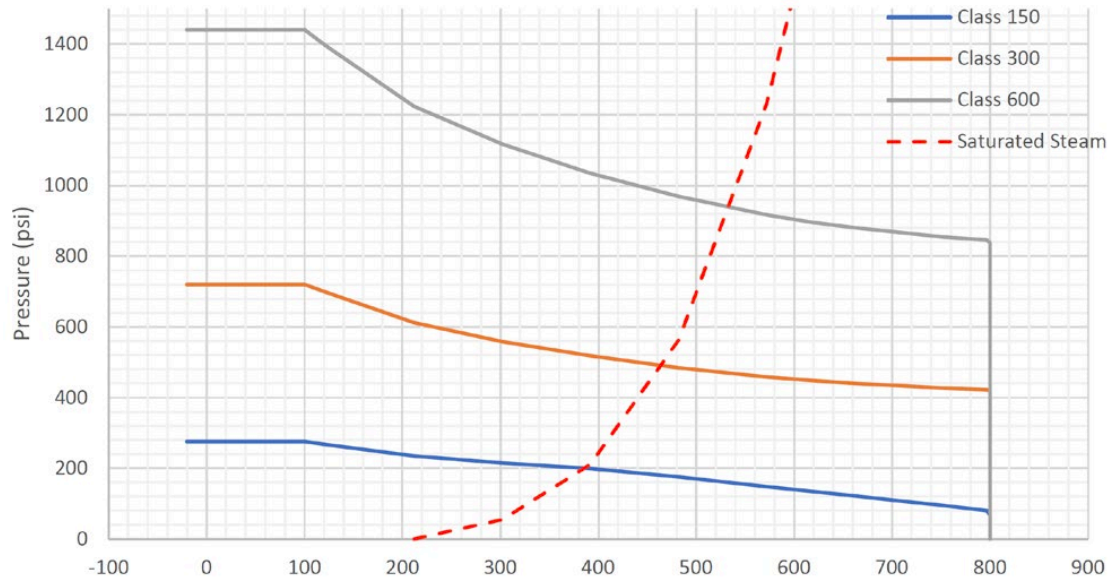


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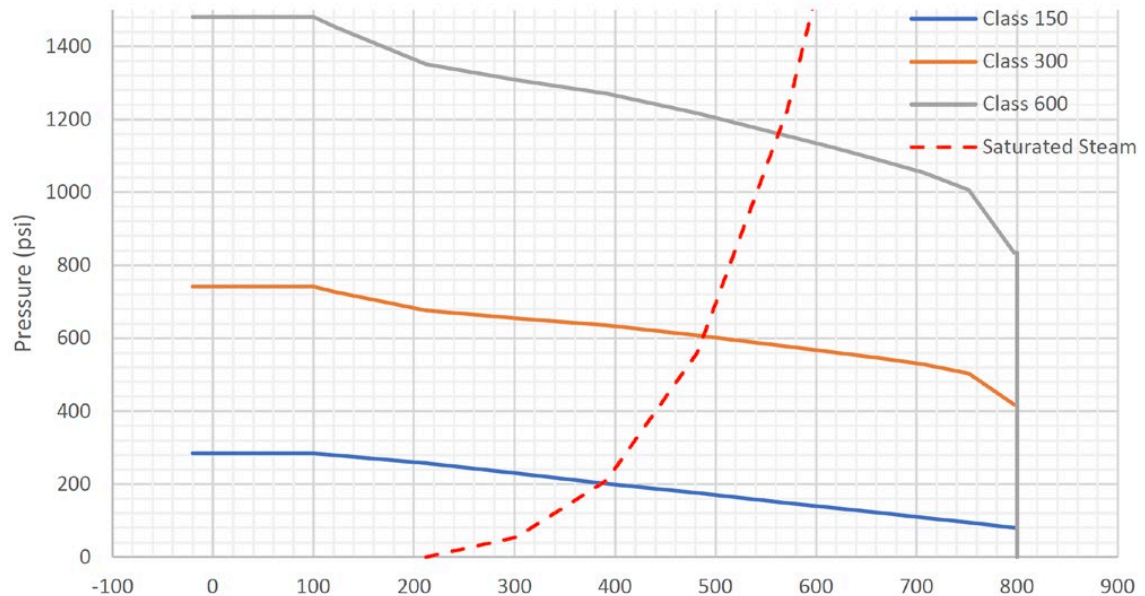
PT Chart

Class 150, Class 300, & Class 600 Pressure Temperature Charts

Class 150 Pressure Temperature Chart

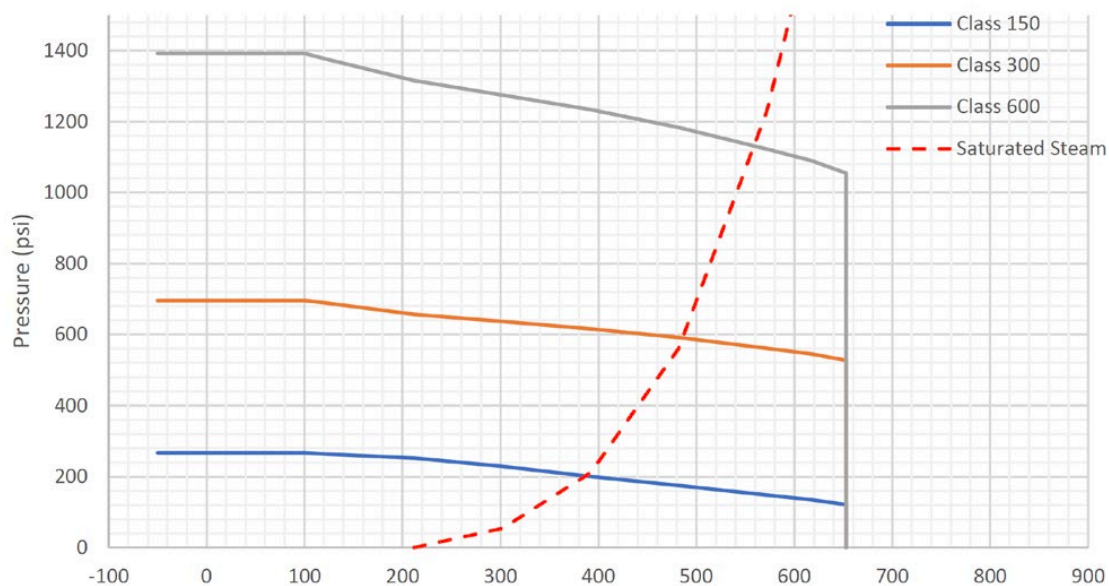


Class 300 Pressure Temperature Chart





Class 600 Pressure Temperature Chart



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Cv Values

Class 150, Class 300, & Class 600 Flow Coefficients

Class 150 Cv

Valve Sizing Coefficients (US-GPM/ΔP)

SIZE	Opening Angle									
ANSI	DN	10°	20°	30°	40°	50°	60°	70°	80°	90°
3"	80	12	27	38	52	65	76	89	102	105
4"	100	28	48	79	105	128	157	180	202	207
5"	125	51	108	182	276	394	534	667	782	802
6"	150	79	170	303	488	715	980	1236	1488	1525
8"	200	128	275	489	787	1152	1580	2050	2448	2452
10"	250	198	451	803	1293	1893	2597	3270	3888	3890
12"	300	271	581	1034	1665	2438	3344	4216	4931	4938
14"	350	367	787	1401	2255	3303	4530	5711	6930	6932
16"	400	420	1061	1888	3039	4450	6104	7695	8996	8990
18"	450	605	1310	2310	3718	5445	7469	9450	11289	11350
20"	500	822	1763	3137	5049	7394	10143	13487	16285	16690
24"	600	1231	2856	5082	8180	11979	16432	20715	25537	26200
28"	700	1579	3388	6030	9706	14214	19498	24581	28885	29856
30"	750	1861	3993	7107	11439	16752	22979	28970	33735	34840
32"	800	2309	4954	8816	14189	20780	28504	35935	42650	43980
36"	900	2885	6443	11510	18455	27027	37073	46738	53890	54900
40"	1000	3201	6868	12350	19672	28809	39518	49819	58527	59890
42"	1050	4100	8796	15653	25195	36897	50613	63806	73422	74540
46"	1150	4279	9180	16338	26296	38511	52826	66597	77645	79800
48"	1200	2672	6121	14520	22490	35181	48239	67600	87103	99834
46"	1150	2,247	5,724	12,230	20,169	31,972	44,877	59,444	73,689	84,720
48"	1200	2,672	6,121	14,520	22,490	35,181	48,239	67,600	87,103	99,834

Class 300 Cv

Valve Sizing Coefficients (US-GPM/ΔP)

SIZE	Opening Angle									
ANSI	DN	10°	20°	30°	40°	50°	60°	70°	80°	90°
3"	80	12	27	38	52	65	76	89	102	105
4"	100	28	48	79	105	128	157	180	202	207
6"	150	44	93	157	238	340	448	535	620	636
8"	200	67	143	255	410	600	823	1,037	1,205	1,232
10"	250	120	257	458	737	1,079	1,395	1,788	2,147	2,195
12"	300	188	402	716	1,153	1,688	2,316	2,920	3,360	3,490
14"	350	248	532	947	1,524	2,232	3,062	3,861	4,442	4,508
16"	400	327	702	1,249	2,010	2,943	4,037	5,090	5,987	6,052
18"	450	446	956	1,702	2,739	4,012	5,503	6,938	7,983	8,110
20"	500	542	1,176	2,094	3,370	4,935	6,770	8,490	9,820	9,982
24"	600	759	1,628	2,898	4,664	6,831	9,370	12,613	15,350	15,650
28"	700	1,130	2,425	4,315	6,945	10,171	13,951	17,898	21,839	22,345
30"	750	1,332	2,857	5,084	8,183	11,984	16,439	21,785	27,650	28,911
32"	800	1,656	3,552	6,321	10,174	14,900	20,438	26,766	30,649	32,050
36"	900	2,040	4,590	8,169	13,148	19,256	26,413	33,298	38,852	39,900

95X/96X/97X Series Technical Brochure

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Class 600 Cv

Valve Sizing Coefficients (US-GPM/ Δ P)

SIZE	Opening Angle									
ANSI	DN	10°	20°	30°	40°	50°	60°	70°	80°	90°
4"	100	21	38	59	82	106	132	158	185	184
6"	150	41	87	147	223	318	405	490	580	578
8"	200	52	111	197	318	465	638	805	926	940
10"	250	88	189	336	540	791	1085	1345	1598	1595
12"	300	146	313	557	896	1290	1681	2170	2492	2485
14"	350	215	461	820	1320	1933	2651	3343	3846	3905
16"	400	285	612	1089	1753	2567	3535	4438	5190	5282
18"	450	392	840	1495	2407	3524	4834	6120	7113	7280
20"	500	501	1074	1911	3076	4505	6179	7890	9542	9680
24"	600	640	1487	2646	4259	6237	8555	10986	13250	13890

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Torque Data

Torques

Class 150 Torques (in-lbs)

Size	Flow Direction	50ΔP	100ΔP	150ΔP	200ΔP	290ΔP
3"	Shaft side	336	407	531	637	885
	Disc Side	425	531	717	894	1248
4"	Shaft side	443	566	797	1036	1460
	Disc Side	593	788	1115	1478	2080
6"	Shaft side	752	1000	1390	1841	2611
	Disc Side	982	1328	1876	2496	3549
8"	Shaft side	1115	1505	2133	2841	4045
	Disc Side	1487	2009	2876	3859	5514
10"	Shaft side	1876	2558	3797	4859	6957
	Disc Side	2452	3354	4974	6452	9240
12"	Shaft side	2478	3381	5027	6567	9408
	Disc Side	3301	4523	6727	8860	12701
14"	Shaft side	3585	4921	7328	9594	13772
	Disc Side	4788	6576	9807	12940	18578
16"	Shaft side	4983	6842	10214	13365	19197
	Disc Side	6762	9302	14073	18312	26313
18"	Shaft side	6488	8922	13320	17418	25021
	Disc Side	8736	12028	17976	23676	34031
20"	Shaft side	8160	11196	16692	21737	31199
	Disc Side	10939	15028	22437	29464	42315
24"	Shaft side	12302	16896	25207	32659	46891
	Disc Side	16303	22419	33482	43784	62902
28"	Shaft side	28667	32942	49245	66602	95057
	Disc Side	35208	40457	60512	81860	116847
32"	Shaft side	42598	48953	73647	98349	141390
	Disc Side	51139	58769	88445	109280	169854
36"	Shaft side	56715	75532	98110	131132	188440
	Disc Side	67522	89941	116847	156162	224463
40"	Shaft side	66982	83621	122441	155719	222268
	Disc Side	79541	99314	145461	185015	264123
42"	Shaft side	83533	97340	144284	192609	276832
	Disc Side	99978	116519	172783	230693	331627
48"	Shaft side	116573	135858	201424	270849	386554
	Disc Side	135787	158268	234729	315678	450598

*Note: Reference Actuator Sizing Guidelines

95X/96X/97X Series Technical Brochure

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Class 150 Torques (Nm)

Size	Flow Direction	50ΔP	100ΔP	150ΔP	200ΔP	290ΔP
DN80	Shaft side	38	46	60	72	100
	Disc Side	48	60	81	101	141
DN100	Shaft side	50	64	90	117	165
	Disc Side	67	89	126	167	235
DN150	Shaft side	85	113	157	208	295
	Disc Side	111	150	212	282	401
DN200	Shaft side	126	170	241	321	457
	Disc Side	168	227	325	436	623
DN250	Shaft side	212	289	429	549	786
	Disc Side	277	379	562	729	1044
DN300	Shaft side	280	382	568	742	1063
	Disc Side	373	511	760	1001	1435
DN350	Shaft side	405	556	828	1084	1556
	Disc Side	541	743	1108	1462	2099
DN400	Shaft side	563	773	1154	1510	2169
	Disc Side	764	1051	1590	2069	2973
DN450	Shaft side	733	1008	1505	1968	2827
	Disc Side	987	1359	2031	2675	3845
DN500	Shaft side	922	1265	1886	2456	3525
	Disc Side	1236	1698	2535	3329	4781
DN600	Shaft side	1390	1909	2848	3690	5298
	Disc Side	1842	2533	3783	4947	7107
DN700	Shaft side	3239	3722	5564	7525	10740
	Disc Side	3978	4571	6837	9249	13202
DN800	Shaft side	4813	5531	8321	11112	15975
	Disc Side	5778	6640	9993	12347	19191
DN900	Shaft side	6408	8534	11085	14816	21291
	Disc Side	7629	10162	13202	17644	25361
DN1000	Shaft side	7568	9448	13834	17594	25113
	Disc Side	8987	11221	16435	20904	29842
DN1050	Shaft side	9438	10998	16302	21762	31278
	Disc Side	11296	13165	19522	26065	37469
DN1200	Shaft side	13171	15350	22758	30602	43675
	Disc Side	15342	17882	26521	35667	50911

Torque Data (Cont.)

Torques

Class 300 Torques (in-lbs)

Size	Flow Direction	300ΔP	400ΔP	500ΔP	600ΔP	725ΔP
3"	Shaft side	965	1301	1602	1903	2283
	Disc Side	1336	1802	2219	2636	3163
4"	Shaft side	1593	2149	2645	3142	3771
	Disc Side	2239	3020	3718	4417	5300
6"	Shaft side	2859	3855	4747	5639	6767
	Disc Side	3832	5168	6364	7559	9071
8"	Shaft side	4779	6446	7936	9427	11313
	Disc Side	6514	8785	10817	12849	15419
10"	Shaft side	7231	9752	12007	14263	17116
	Disc Side	8585	11578	14256	16934	20321
12"	Shaft side	10807	14574	17945	21316	25579
	Disc Side	14710	19838	24426	29015	34818
14"	Shaft side	17666	23825	29335	34846	41815
	Disc Side	22649	30545	37610	44675	53609
16"	Shaft side	27296	36811	45326	53840	64608
	Disc Side	37686	50825	62580	74335	89202
18"	Shaft side	31606	42624	52483	62342	74810
	Disc Side	40377	54453	67048	79642	95571
20"	Shaft side	47431	63966	78761	93556	112268
	Disc Side	58937	79484	97868	116252	139502
24"	Shaft side	60202	81190	99969	118748	142498
	Disc Side	76771	103535	127482	151429	181715
28"	Shaft side	109642	146054	182457	218860	264229
	Disc Side	132203	176120	220046	263963	318705
32"	Shaft side	160773	214275	267778	321289	387970
	Disc Side	190228	253555	316882	380200	459130
36"	Shaft side	225153	299941	374730	449518	542734
	Disc Side	264627	352576	440526	528466	638082

*Note: Reference Actuator Sizing Guidelines

95X/96X/97X Series Technical Brochure

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Class 300 Torques (Nm)

Size	Flow Direction	300ΔP	400ΔP	500ΔP	600ΔP	725ΔP
DN80	Shaft side	109	147	181	215	258
	Disc Side	151	204	251	298	357
DN100	Shaft side	180	243	299	355	426
	Disc Side	253	341	420	499	599
DN150	Shaft side	323	436	536	637	765
	Disc Side	433	584	719	854	1025
DN200	Shaft side	540	728	897	1065	1278
	Disc Side	736	993	1222	1452	1742
DN250	Shaft side	817	1102	1357	1612	1934
	Disc Side	970	1308	1611	1913	2296
DN300	Shaft side	1221	1647	2028	2408	2890
	Disc Side	1662	2241	2760	3278	3934
DN350	Shaft side	1996	2692	3314	3937	4724
	Disc Side	2559	3451	4249	5048	6057
DN400	Shaft side	3084	4159	5121	6083	7300
	Disc Side	4258	5742	7071	8399	10079
DN450	Shaft side	3571	4816	5930	7044	8452
	Disc Side	4562	6152	7575	8998	10798
DN500	Shaft side	5359	7227	8899	10571	12685
	Disc Side	6659	8980	11058	13135	15762
DN600	Shaft side	6802	9173	11295	13417	16100
	Disc Side	8674	11698	14404	17109	20531
DN700	Shaft side	12388	16502	20615	24728	29854
	Disc Side	14937	19899	24862	29824	36009
DN800	Shaft side	18165	24210	30255	36301	43835
	Disc Side	21493	28648	35803	42957	51875
DN900	Shaft side	25439	33889	42339	50789	61321
	Disc Side	29899	39836	49773	59709	72094

Torque Data (Cont.)

Torques

Class 600 Torques (in-lbs)

Size	Flow Direction	600ΔP	750ΔP	900ΔP	1100ΔP	1450ΔP
3"	Shaft side	2726	3271	3832	5098	6249
	Disc Side	3496	4195	4915	6538	8014
4"	Shaft side	3151	3781	4430	5892	7222
	Disc Side	3797	4556	5338	7100	8703
6"	Shaft side	6983	8380	9817	13059	16007
	Disc Side	8930	10716	12555	16700	20470
8"	Shaft side	10966	13159	15417	20506	25136
	Disc Side	14002	16802	19684	26183	32095
10"	Shaft side	27543	33052	38722	51506	63135
	Disc Side	33642	40370	47295	62910	77113
12"	Shaft side	43076	51692	60559	80553	98740
	Disc Side	61911	74293	87037	115773	141912
14"	Shaft side	54972	65966	77282	102797	126006
	Disc Side	70894	85073	99666	132572	162503
16"	Shaft side	66194	79433	93059	123784	151731
	Disc Side	86994	104392	122299	162678	199407
18"	Shaft side	91295	109554	128347	170722	209266
	Disc Side	114103	136924	160411	213373	261547
20"	Shaft side	118042	141650	165948	220738	270575
	Disc Side	146807	176168	206387	274528	336510
24"	Shaft side	182740	219288	256905	341725	418878
	Disc Side	231472	277767	325414	432853	530581

*Note: Reference Actuator Sizing Guidelines

95X/96X/97X Series Technical Brochure

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Class 600 Torques (Nm)

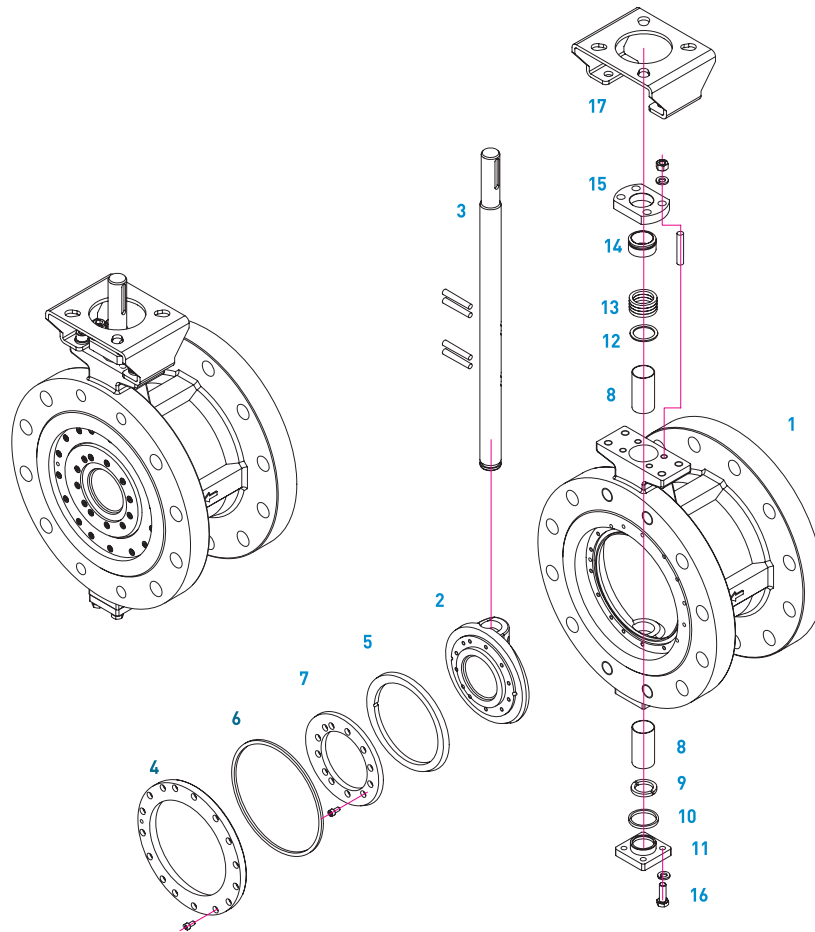
Size	Flow Direction	600ΔP	750ΔP	900ΔP	1100ΔP	1450ΔP
DN80	Shaft side	308	370	433	576	706
	Disc Side	395	474	555	739	905
DN100	Shaft side	356	427	500	666	816
	Disc Side	429	515	603	802	983
DN150	Shaft side	789	947	1109	1475	1809
	Disc Side	1009	1211	1418	1887	2313
DN200	Shaft side	1239	1487	1742	2317	2840
	Disc Side	1582	1898	2224	2958	3626
DN250	Shaft side	3112	3734	4375	5819	7133
	Disc Side	3801	4561	5344	7108	8713
DN300	Shaft side	4867	5840	6842	9101	11156
	Disc Side	6995	8394	9834	13081	16034
DN350	Shaft side	6211	7453	8732	11615	14237
	Disc Side	8010	9612	11261	14979	18361
DN400	Shaft side	7479	8975	10514	13986	17143
	Disc Side	9829	11795	13818	18380	22530
DN450	Shaft side	10315	12378	14501	19289	23644
	Disc Side	12892	15470	18124	24108	29551
DN500	Shaft side	13337	16004	18750	24940	30571
	Disc Side	16587	19904	23319	31018	38021
DN600	Shaft side	20647	24776	29026	38610	47327
	Disc Side	26153	31384	36767	48906	59948

Technical Data

Exploded View, Materials of Construction, & Dimensional Data

900 Series

Exploded View & Bill of Materials



#	Part	Materials	Material Standard
1	Body	Carbon Steel	WCB, LCB
		Stainless Steel	CF8, CF8M, CF3, CF3M
2	Disc	Carbon Steel	WCB, LCB
		Stainless Steel	ASTM B148 C95800
3	Shaft	Stainless Steel	304, 316, 316L
		17-4PH	ASTM A564 630
4	Body Seat	Stainless Steel	304, 316, 316L
		Hard Facing	HRC, Stellite#6
5	Disc Seat	17-4PH	ASTM A564 630
		Stainless Steel	ASTM A240 304, 316, 420
6	Body Seat Gasjet	Spiral Gasket	316+Graphite
		Graphite	Graphite Gasket
7	Disc Cover	Stainless Steel	Graphite Gasket
8	Bush Bearing	316 Stainless Steel with TFE	
		316+HCR	

#	Part	Materials	Material Standard
9	Shaft Retainer	Stainless Steel	ASTM A36
		Copper Alloy	A271 C83600
10	Bottom Packing	PTFE/RTFE	
		Graphite	
11	Bottom	Carbon Steel	WCB, LCB
		Stainless Steel	CF8, CF8M, CF3, CF3M
12	Packing Retainer	Stainless Steel	ASTM A240 316
13	Packing	PTFE / RTFE - V Packing	
		Graphite	
14	Gland	Stainless Steel	304+HRC, 316+HRC
15	Gland Bridge	Stainless Steel	304, 316
16	Bolt	304 / 316 Stainless Steel	
17	Bracket	Carbon Steel	ASTM A36

95X/96X/97X Series Technical Brochure

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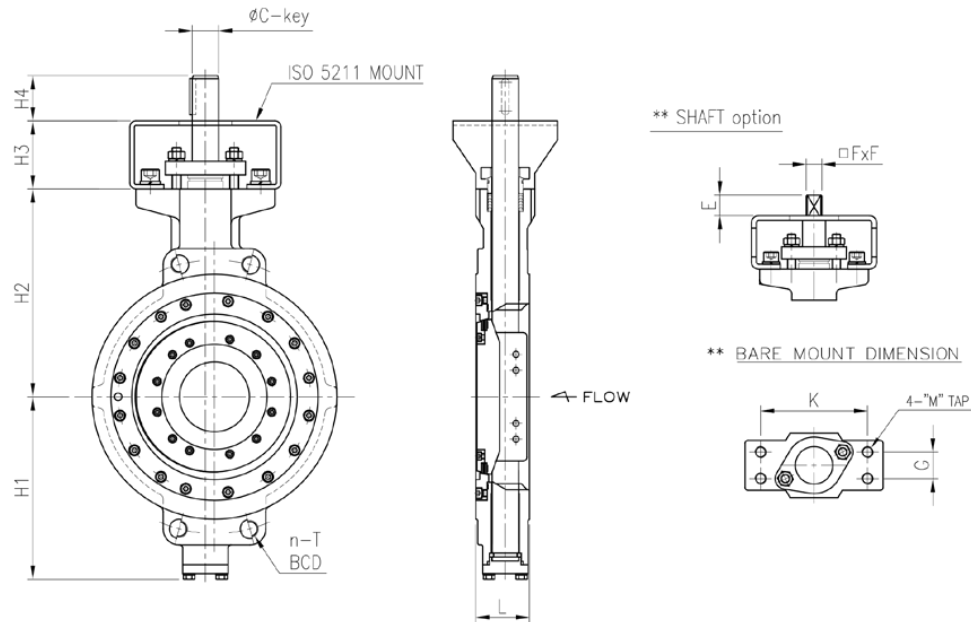
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Dimensional Data

Class 150, Class 300, & Class 600 Dimensional Data

950 (Class 150) Wafer

3" - 24" Dimensions



Standard Dimensions (in)

Size	L	n	ØBCD	ØT	H1	H2	H3	H4	K	G	M	ØC	KEY BASE	E	□ FxF	ISO 5211	WEIGHT
in	in	#	in	in	in	in	in	in	in	in	Thread	in	in	in	in		lbs
3"	1.89	4	6.00	0.75	4.61	5.12	2.56	1.57	3.46	0.87	M10	0.630	0.197x0.197	0.51	0.433x0.433	F05-F07	16.1
4"	2.13	4	7.50	0.75	5.63	6.30	2.76	1.65	3.70	0.94	M10	0.787	0.236x0.236	0.87	0.669x0.669	F07-F10	26.4
5"	2.24	4	8.50	0.87	5.75	6.50	2.76	1.65	3.70	0.94	M10	0.787	0.236x0.236	0.87	0.669x0.669	F07-F10	32.8
6"	2.24	4	9.50	0.87	6.73	7.28	2.76	1.65	3.70	0.94	M10	0.787	0.236x0.236	0.87	0.669x0.669	F10-F12	40.3
8"	2.52	4	11.75	0.87	7.80	9.25	2.95	2.05	4.09	1.26	M12	1.024	0.315x0.276	1.02	0.750x0.750	F10-F12	62.7
10"	2.80	4	14.25	1.00	9.53	10.83	3.15	2.36	5.83	1.42	M16	1.181	0.394x0.315	1.26	0.866x0.866	F12-F14	89.3
12"	3.19	4	17.00	7/8" UNC	10.51	11.61	3.54	2.36	5.83	1.42	M16	1.378	0.394x0.315	1.38	1.063x1.063	F12-F14	125.8
14"	3.62	4	18.75	1" UNC	11.61	12.60	3.54	2.36	5.91	1.57	M16	1.378	0.394x0.315	1.38	1.063x1.063	F12-F14	175.1
16"	4.02	4	21.25	1" UNC	12.80	14.57	4.33	2.95	7.09	1.77	M20	1.575	0.472x0.315	1.38	1.063x1.063	F14-F16	217.8
18"	4.49	4	22.75	1-1/8" 8UN	14.76	15.75	4.33	2.95	7.32	1.77	M20	1.772	0.551x0.354	1.89	1.417x1.417	F14-F16	258.9
20"	5.00	4	25.00	1-1/8" 8UN	15.94	17.13	4.72	2.95	7.32	1.97	M20	1.969	0.630x0.394	1.89	1.417x1.417	F14-F16	328.0
24"	6.06	4	29.50	1-1/4" 8UN	18.50	19.88	5.51	3.94	7.87	2.17	M20	2.559	0.787x0.472	1.97	1.811x1.811	F14-F16	354.2

Metric Dimensions (mm)

Size	L	n	ØBCD	ØT	H1	H2	H3	H4	K	G	M	ØC	KEY BASE	E	□ FxF	ISO 5211	WEIGHT
mm	mm	#	mm	mm	mm	mm	mm	mm	mm	mm	Thread	mm	mm	mm	mm		kg
DN80	48	4	152.4	19.1	117	130	65	40	88	22	M10	16	5x5	13	11x11	F05-F07	7.3
DN100	54	4	190.5	19.1	143	160	70	42	94	24	M10	20	6x6	22	17x17	F07-F10	12
DN125	57	4	215.9	22.2	146	165	70	42	94	24	M10	20	6x6	22	17x17	F07-F10	14.9
DN150	57	4	241.3	22.2	171	185	70	42	94	24	M10	20	6x6	22	17x17	F10-F12	18.3
DN200	64	4	298.5	22.2	198	235	75	52	104	32	M12	26	8x7	26	19x19	F10-F12	28.5
DN250	71	4	362	25.4	242	275	80	60	148	36	M16	30	10x8	32	22x22	F12-F14	40.6
DN300	81	4	431.8	7/8" UNC	267	295	90	60	148	36	M16	35	10x8	35	27x27	F12-F14	57.2
DN350	92	4	476.3	1" UNC	295	320	90	60	150	40	M16	35	10x8	35	27x27	F12-F14	79.6
DN400	102	4	539.8	1" UNC	325	370	110	75	180	45	M20	40	12x8	35	27x27	F14-F16	99
DN450	114	4	577.9	1-1/8" 8UN	375	400	110	75	186	45	M20	45	14x9	48	36x36	F14-F16	117.7
DN500	127	4	635	1-1/8" 8UN	405	435	120	75	186	50	M20	50	16x10	48	36x36	F14-F16	149.1
DN600	154	4	749.3	1-1/4" 8UN	470	505	140	100	200	55	M20	65	20x12	50	46x46	F14-F16	161

95X/96X/97X Series Technical Brochure

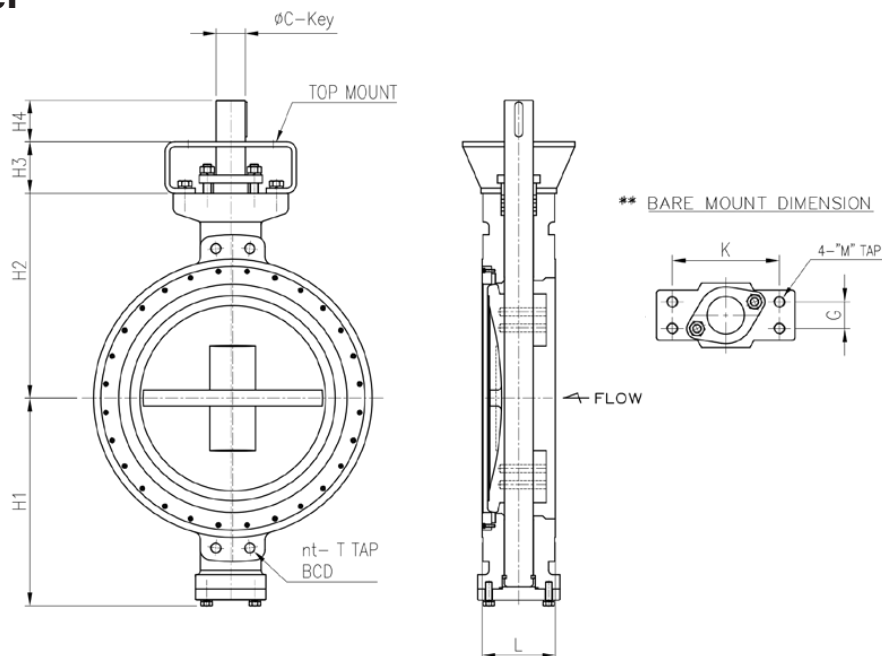
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950 (Class 150) Wafer

26" - 48" Dimensions



Standard Dimensions (in)

Size	L	n	nt	ØBCD	T (TAP)	H1	H2	H3	H4	K	G	M	ØC	KEY BASE	ISO 5211	WEIGHT
in	in	#	#	in	in	in	in	in	in	in	in	Thread	in	in		lbs
26"	6.50	24	4	31.75	1-1/4" 8UN	20.47	20.08	4.72	3.94	7.87	2.17	M20	2.559	0.787x0.472	F16-F20	809.6
28"	6.50	28	4	34.00	1-1/4" 8UN	22.44	21.46	5.51	3.94	8.66	2.36	M20	2.756	0.787x0.472	F16-F20	913
30"	7.48	28	4	36.00	1-1/4" 8UN	23.62	21.85	5.51	3.94	9.06	2.36	M20	2.953	0.787x0.472	F20-F25	1150.6
32"	7.48	28	4	38.50	1-1/2" 8UN	24.80	23.62	5.91	4.33	10.63	2.36	M20	3.150	0.866x0.551	F25-F30	1298
34"	7.99	32	4	40.50	1-1/2" 8UN	25.59	25.20	5.91	4.33	10.63	2.36	M20	3.150	0.866x0.551	F25-F30	1537.8
36"	7.99	32	4	42.75	1-1/2" 8UN	27.17	26.38	5.91	4.33	10.63	3.15	M24	3.346	0.984x0.551	F25-F30	1716
40"	8.50	36	4	47.25	1-1/2" 8UN	28.35	26.57	6.30	4.92	11.02	2.76	M24	3.543	0.984x0.551	F25-F30	2288
42"	9.88	36	4	49.50	1-1/2" 8UN	29.53	27.56	6.30	5.91	11.02	2.76	M24	3.740	0.984x0.551	F30-F35	2908.4
48"	10.00	44	4	56.00	1-1/2" 8UN	33.27	33.86	6.30	6.10	11.81	3.94	M27	4.331	1.102x0.630	F30-F35	3836.8

Metric Dimensions (mm)

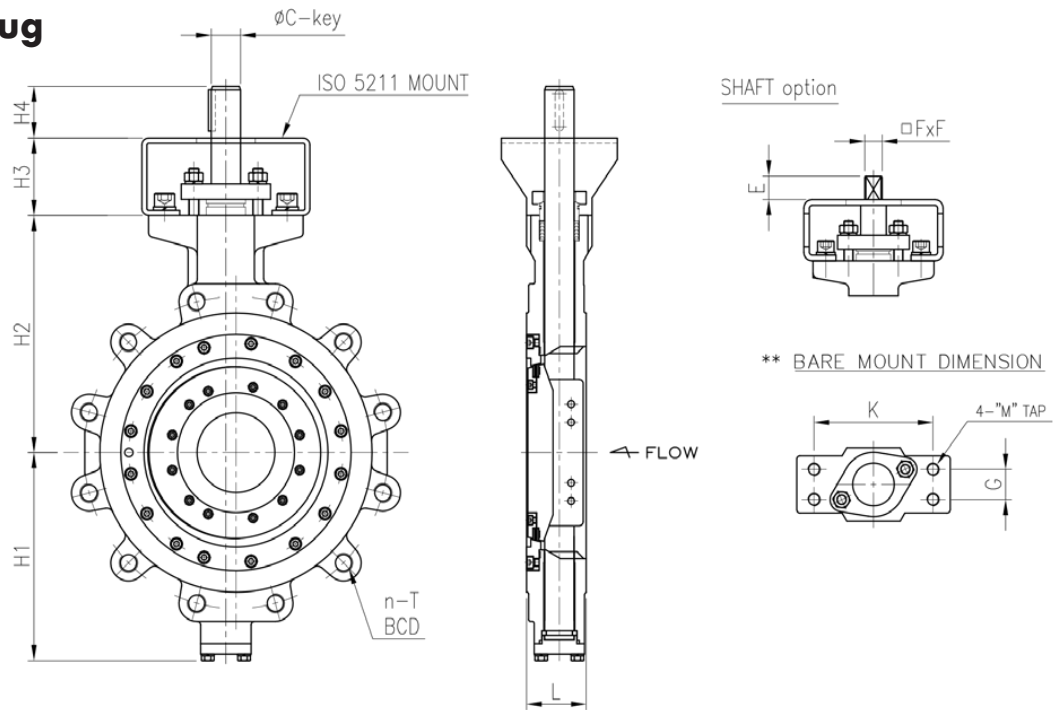
Size	L	n	nt	ØBCD	T (TAP)	H1	H2	H3	H4	K	G	M	ØC	KEY BASE	ISO 5211	WEIGHT
mm	mm	#	#	mm	mm	mm	mm	mm	mm	mm	mm	Thread	mm	mm		kg
DN650	165	24	4	806.4	1-1/4" 8UN	520	510	120	100	200	55	M20	65	20x12	F16-F20	368
DN700	165	28	4	863.6	1-1/4" 8UN	570	545	140	100	220	60	M20	70	20x12	F16-F20	415
DN750	190	28	4	914.4	1-1/4" 8UN	600	555	140	100	230	60	M20	75	20x12	F20-F25	523
DN800	190	28	4	977.9	1-1/2" 8UN	630	600	150	110	270	60	M20	80	22x14	F25-F30	590
DN850	203	32	4	1028.7	1-1/2" 8UN	650	640	150	110	270	60	M20	80	22x14	F25-F30	699
DN900	203	32	4	1085.8	1-1/2" 8UN	690	670	150	110	270	80	M24	85	25x14	F25-F30	780
DN1000	216	36	4	1200.2	1-1/2" 8UN	720	675	160	125	280	70	M24	90	25x14	F25-F30	1040
DN1050	251	36	4	1257.3	1-1/2" 8UN	750	700	160	150	280	70	M24	95	25x14	F30-F35	1322
DN1200	254	44	4	1422.4	1-1/2" 8UN	845	860	160	155	300	100	M27	110	28x16	F30-F35	1744

Dimensional Data (Cont.)

Class 150, Class 300, & Class 600 Dimensional Data

951 (Class 150) Lug

3" - 24" Dimensions



Standard Dimensions (in)

Size	L	n	ØBCD	ØT	H1	H2	H3	H4	K	G	M	ØC	KEY BASE	E	□ FxF	ISO 5211	WEIGHT
in	in	#	in	in	in	in	in	in	in	in	Thread	in	in	in	in		lbs
3"	1.89	4	6.00	5/8" UNC	4.61	5.12	2.56	1.57	3.46	0.87	M10	0.630	0.197x0.197	0.51	0.433x0.433	F05-F07	17.4
4"	2.13	8	7.50	5/8" UNC	5.63	6.30	2.76	1.65	3.70	0.94	M10	0.787	0.236x0.236	0.87	0.669x0.669	F07-F10	31.0
5"	2.24	8	8.50	3/4" UNC	5.75	6.50	2.76	1.65	3.70	0.94	M10	0.787	0.236x0.236	0.87	0.669x0.669	F07-F10	38.3
6"	2.24	8	9.50	3/4" UNC	6.73	7.28	2.76	1.65	3.70	0.94	M10	0.787	0.236x0.236	0.87	0.669x0.669	F10-F12	47.5
8"	2.52	8	11.75	3/4" UNC	7.80	9.25	2.95	2.05	4.09	1.26	M12	1.024	0.315x0.276	1.02	0.750x0.750	F10-F12	74.8
10"	2.80	12	14.25	7/8" UNC	9.53	10.83	3.15	2.36	5.83	1.42	M16	1.181	0.394x0.315	1.26	0.866x0.866	F12-F14	112.0
12"	3.19	12	17.00	7/8" UNC	10.51	11.61	3.54	2.36	5.83	1.42	M16	1.378	0.394x0.315	1.38	1.063x1.063	F12-F14	144.3
14"	3.62	12	18.75	1" UNC	11.61	12.60	3.54	2.36	5.91	1.57	M16	1.378	0.394x0.315	1.38	1.063x1.063	F12-F14	200.9
16"	4.02	16	21.25	1" UNC	12.80	14.57	4.33	2.95	7.09	1.77	M20	1.575	0.472x0.315	1.38	1.063x1.063	F14-F16	227.0
18"	4.49	16	22.75	1-1/8" 8UN	14.76	15.75	4.33	2.95	7.32	1.77	M20	1.772	0.551x0.354	1.89	1.417x1.417	F14-F16	293.3
20"	5.00	20	25.00	1-1/8" 8UN	15.94	17.13	4.72	2.95	7.32	1.97	M20	1.969	0.630x0.394	1.89	1.417x1.417	F14-F16	371.6
24"	6.06	20	29.50	1-1/4" 8UN	18.50	19.88	5.51	3.94	7.87	2.17	M20	2.165	0.787x0.472	1.97	1.811x1.811	F14-F16	440.9

Metric Dimensions (mm)

Size	L	n	ØBCD	ØT	H1	H2	H3	H4	K	G	M	ØC	KEY BASE	E	□ FxF	ISO 5211	WEIGHT
mm	mm	#	mm	mm	mm	mm	mm	mm	mm	mm	Thread	mm	mm	mm	mm		kg
DN80	48	4	152.4	5/8" UNC	117	130	65	40	88	22	M10	16	5x5	13	11x11	F05-F07	7.9
DN100	54	8	190.5	5/8" UNC	143	160	70	42	94	24	M10	20	6x6	22	17x17	F07-F10	14.1
DN125	57	8	215.9	3/4" UNC	146	165	70	42	94	24	M10	20	6x6	22	17x17	F07-F10	17.4
DN150	57	8	241.3	3/4" UNC	171	185	70	42	94	24	M10	20	6x6	22	17x17	F10-F12	21.6
DN200	64	8	298.5	3/4" UNC	198	235	75	52	104	32	M12	26	8x7	26	19x19	F10-F12	34
DN250	71	12	362	7/8" UNC	242	275	80	60	148	36	M16	30	10x8	32	22x22	F12-F14	50.9
DN300	81	12	431.8	7/8" UNC	267	295	90	60	148	36	M16	35	10x8	35	27x27	F12-F14	65.6
DN350	92	12	476.3	1" UNC	295	320	90	60	150	40	M16	35	10x8	35	27x27	F12-F14	91.3
DN400	102	16	539.8	1" UNC	325	370	110	75	180	45	M20	40	12x8	35	27x27	F14-F16	103.2
DN450	114	16	577.9	1-1/8" 8UN	375	400	110	75	186	45	M20	45	14x9	48	36x36	F14-F16	133.3
DN500	127	20	635	1-1/8" 8UN	405	435	120	75	186	50	M20	50	16x10	48	36x36	F14-F16	168.9
DN600	154	20	749.3	1-1/4" 8UN	470	505	140	100	200	55	M20	55	20x12	50	46x46	F14-F16	200.4

95X/96X/97X Series Technical Brochure

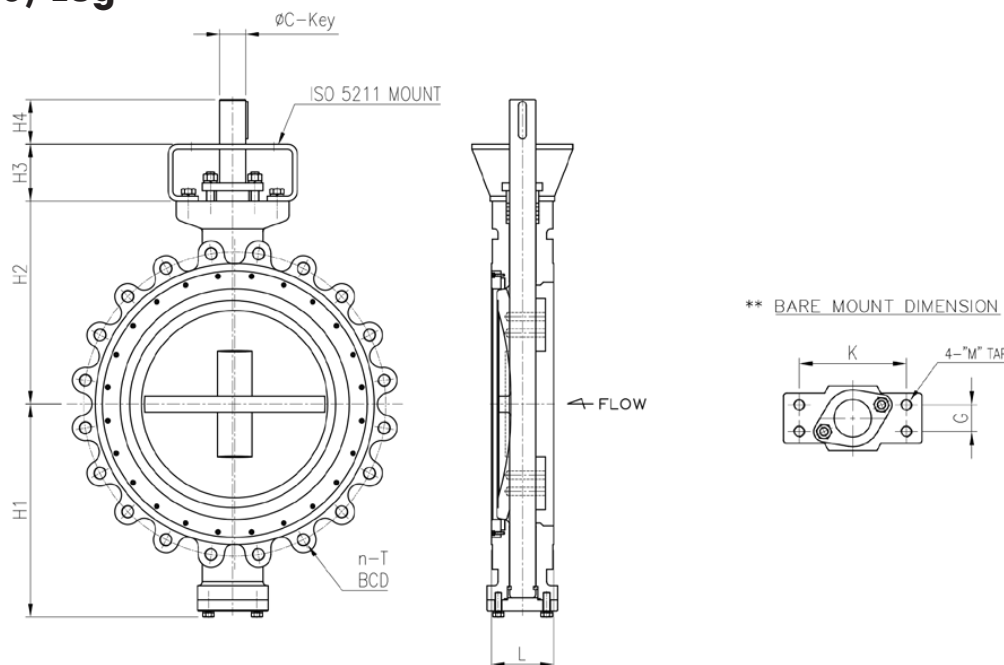
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951 (Class 150) Lug

26" - 48" Dimensions



Standard Dimensions (in)

Size	L	n	ØBCD	ØT	H1	H2	H3	H4	K	G	M	ØC	KEY BASE	ISO 5211	WEIGHT
in	in	#	in	in	in	in	in	in	in	in	Thread	in	mm		lbs
26"	6.50	24	31.75	1-1/4" 8UN	20.47	20.08	4.72	3.94	7.87	2.17	M20	2.559	0.787x0.472	F16-F20	970.2
28"	6.50	28	34.00	1-1/4" 8UN	22.44	21.46	5.51	3.94	8.66	2.36	M20	2.756	0.787x0.472	F16-F20	1095.6
30"	7.48	28	36.00	1-1/4" 8UN	23.62	21.85	5.51	3.94	9.06	2.36	M20	2.953	0.787x0.472	F20-F25	1379.4
32"	7.48	28	38.50	1-1/2" 8UN	24.80	23.62	5.91	4.33	10.63	2.36	M20	3.150	0.866x0.551	F25-F30	1557.6
34"	7.99	32	40.50	1-1/2" 8UN	25.59	25.20	5.91	4.33	10.63	2.36	M20	3.150	0.866x0.551	F25-F30	1843.6
36"	7.99	32	42.75	1-1/2" 8UN	27.17	26.38	5.91	4.33	10.63	3.15	M24	3.346	0.984x0.551	F25-F30	2059.2
40"	8.50	36	47.25	1-1/2" 8UN	28.35	26.57	6.30	4.92	11.02	2.76	M24	3.543	0.984x0.551	F25-F30	2745.6
42"	9.88	36	49.50	1-1/2" 8UN	29.53	27.56	6.30	5.91	11.02	2.76	M24	3.740	0.984x0.551	F30-F35	3489.2
48"	10.00	44	56.00	1-1/2" 8UN	33.27	33.86	6.30	6.10	11.81	3.94	M27	4.331	1.102x0.630	F30-F35	4602.4

Standard Dimensions (mm)

Size	L	n	ØBCD	ØT	H1	H2	H3	H4	K	G	M	ØC	KEY BASE	ISO 5211	WEIGHT
mm	mm	#	mm	mm	mm	mm	mm	mm	mm	mm	Thread	mm	mm		kg
DN650	165	24	806.4	1-1/4" 8UN	520	510	120	100	200	55	M20	65	20x12	F16-F20	441
DN700	165	28	863.6	1-1/4" 8UN	570	545	140	100	220	60	M20	70	20x12	F16-F20	498
DN750	190	28	914.4	1-1/4" 8UN	600	555	140	100	230	60	M20	75	20x12	F20-F25	627
DN800	190	28	977.9	1-1/2" 8UN	630	600	150	110	270	60	M20	80	22x14	F25-F30	708
DN850	203	32	1028.7	1-1/2" 8UN	650	640	150	110	270	60	M20	80	22x14	F25-F30	838
DN900	203	32	1085.8	1-1/2" 8UN	690	670	150	110	270	80	M24	85	25x14	F25-F30	936
DN1000	216	36	1200.2	1-1/2" 8UN	720	675	160	125	280	70	M24	90	25x14	F25-F30	1248
DN1050	251	36	1257.3	1-1/2" 8UN	750	700	160	150	280	70	M24	95	25x14	F30-F35	1586
DN1200	254	44	1422.4	1-1/2" 8UN	845	860	160	155	300	100	M27	110	28x16	F30-F35	2092

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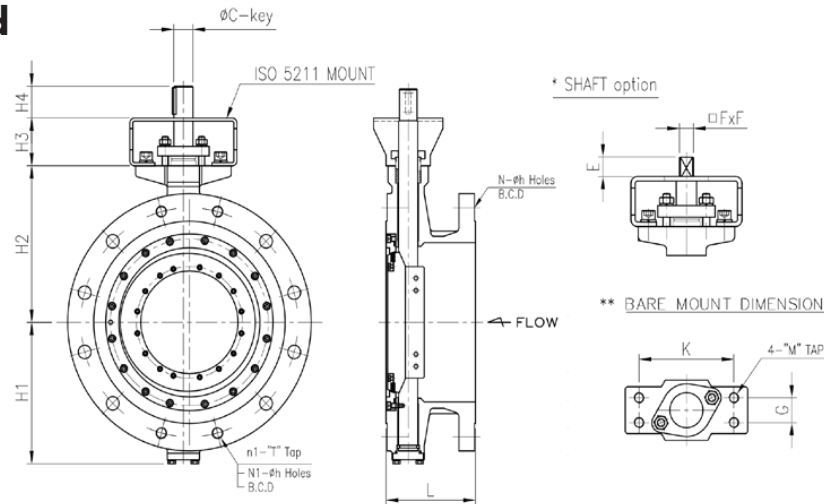
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Dimensional Data (Cont.)

Class 150, Class 300, & Class 600 Dimensional Data

953 (Class 150) Flanged

3" - 24" Dimensions



Standard Dimensions (in)

Size	L	ØBCD	n1	T(TAP)	N	N1	h	H1	H2	H3	H4	K	G	M	ØC	KEY BASE	E	Ø Fx	ISO 5211	WEIGHT
in	in	in	#	in	#	#	in	in	in	in	in	in	in	Thread	in	in	in	in		lbs
3"	4.49	6	4	5/8" UNC	4	-	0.75	4.61	5.12	2.56	1.57	3.46	0.87	M10	0.630	0.197x0.197	0.51	0.433x0.433	F05-F07	32.3
4"	5	7.5	4	5/8" UNC	8	4	0.75	5.63	6.3	2.76	1.65	3.7	0.94	M10	0.787	0.236x0.236	0.87	0.669x0.669	F07-F10	58.1
5"	5.51	8.5	4	3/4" UNC	8	4	0.87	5.75	6.5	2.76	1.65	3.7	0.94	M10	0.787	0.236x0.236	0.87	0.669x0.669	F07-F10	70.6
6"	5.51	9.5	4	3/4" UNC	8	4	0.87	6.73	7.28	2.76	1.65	3.7	0.94	M10	0.787	0.236x0.236	0.87	0.669x0.669	F10-F12	86.9
8"	5.98	11.75	4	3/4" UNC	8	4	0.87	7.8	9.25	2.95	2.05	4.09	1.26	M12	1.024	0.315x0.276	1.02	0.750x0.750	F10-F12	136.6
10"	6.5	14.25	4	7/8" UNC	12	8	1	9.53	10.83	3.15	2.36	5.83	1.42	M13	1.181	0.394x0.315	1.26	0.866x0.866	F12-F14	187.4
12"	7.01	17	4	7/8" UNC	12	8	1	10.51	11.61	3.54	2.36	5.83	1.42	M13	1.378	0.394x0.315	1.38	1.063x1.063	F12-F14	235.6
14"	7.52	18.75	4	1" UNC	12	8	1.12	11.61	12.6	3.54	2.36	5.91	1.57	M13	1.378	0.394x0.315	1.38	1.063x1.063	F12-F14	356.4
16"	8.5	21.25	4	1" UNC	16	12	1.12	12.8	14.57	4.33	2.95	7.09	1.77	M20	1.575	0.472x0.315	1.38	1.063x1.063	F14-F16	394.2
18"	8.74	22.75	4	1-1/8" 8UN	16	12	1.25	14.76	15.75	4.33	2.95	7.32	1.77	M20	1.772	0.551x0.354	1.89	1.417x1.417	F14-F16	505.1
20"	9.02	25	4	1-1/8" 8UN	20	16	1.25	15.94	17.13	4.72	2.95	7.32	1.97	M20	1.969	0.630x0.394	1.89	1.417x1.417	F14-F16	639.8
24"	10.51	29.5	4	1-1/4" 8UN	20	16	1.38	18.5	19.88	5.51	3.94	7.87	2.17	M20	2.559	0.787x0.472	1.97	1.811x1.811	F14-F16	757.5

Metric Dimensions (mm)

Size	L	ØBCD	n1	T(TAP)	N	N1	h	H1	H2	H3	H4	K	G	M	ØC	KEY BASE	E	Ø Fx	ISO 5211	WEIGHT
mm	mm	mm	#	mm	#	#	mm	mm	mm	mm	mm	mm	mm	Thread	mm	mm	mm	mm		kg
DN80	114	152.4	4	5/8" UNC	4	-	19.1	117	130	65	40	88	22	M10	16	5x5	13	11x11	F05-F07	14.7
DN100	127	190.5	4	5/8" UNC	8	4	19.1	143	160	70	42	94	24	M10	20	6x6	22	17x17	F07-F10	26.4
DN125	140	215.9	4	3/4" UNC	8	4	22.2	146	165	70	42	94	24	M10	20	6x6	22	17x17	F07-F10	32.1
DN150	140	241.3	4	3/4" UNC	8	4	22.2	171	185	70	42	94	24	M10	20	6x6	22	17x17	F10-F12	39.5
DN200	152	298.5	4	3/4" UNC	8	4	22.2	198	235	75	52	104	32	M12	26	8x7	26	19x19	F10-F12	62.1
DN250	165	362	4	7/8" UNC	12	8	25.4	242	275	80	60	148	36	M13	30	10x8	32	22x22	F12-F14	85.2
DN300	178	431.8	4	7/8" UNC	12	8	25.4	267	295	90	60	148	36	M13	35	10x8	35	27x27	F12-F14	107.1
DN350	191	476.3	4	1" UNC	12	8	28.4	295	320	90	60	150	40	M13	35	10x8	35	27x27	F12-F14	162
DN400	216	539.8	4	1" UNC	16	12	28.4	325	370	110	75	180	45	M20	40	12x8	35	27x27	F14-F16	179.2
DN450	222	577.9	4	1-1/8" 8UN	16	12	31.8	375	400	110	75	186	45	M20	45	14x9	48	36x36	F14-F16	229.6
DN500	229	635	4	1-1/8" 8UN	20	16	31.8	405	435	120	75	186	50	M20	50	16x10	48	36x36	F14-F16	290.8
DN600	267	749.3	4	1-1/4" 8UN	20	16	35.1	470	505	140	100	200	55	M20	65	20x12	50	46x46	F14-F16	344.3

95X/96X/97X Series Technical Brochure

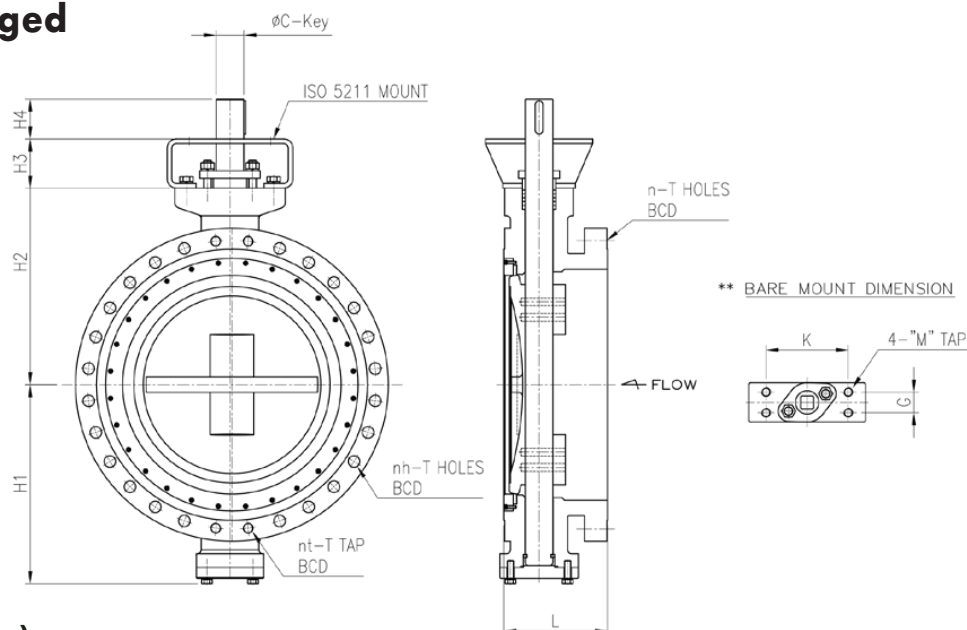
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953 (Class 150) Flanged

26" - 48" Dimensions



Standard Dimensions (in)

Size	L	n	nt	nh	ØBCD	T(TAP)	ØHOLES	H1	H2	H3	H4	K	G	M	ØC	KEY BASE	ISO 5211	WEIGHT
in	in	#	#	#	in	in	in	in	in	in	in	in	in	Thread	in	in		lbs
26"	11.50	24	4	20	31.75	1-1/4" 8UN	1.38	20.47	20.08	4.72	3.94	7.87	2.17	M20	2.559	0.787x0.472	F16-F20	1918.4
28"	11.50	28	4	24	34.00	1-1/4" 8UN	1.38	22.44	21.46	5.51	3.94	8.66	2.36	M20	2.756	0.787x0.472	F16-F20	2068
30"	12.52	28	4	24	36.00	1-1/4" 8UN	1.38	23.62	21.85	5.51	3.94	9.06	2.36	M20	2.953	0.787x0.472	F20-F25	2285.8
32"	12.52	28	4	24	38.50	1-1/2" 8UN	1.63	24.80	23.62	5.91	4.33	10.63	2.36	M20	3.150	0.866x0.551	F25-F30	2824.8
34"	12.99	32	4	28	40.50	1-1/2" 8UN	1.63	25.59	25.20	5.91	4.33	10.63	2.36	M20	3.150	0.866x0.551	F25-F30	2912.8
36"	12.99	32	4	28	42.75	1-1/2" 8UN	1.63	27.17	26.38	5.91	4.33	10.63	3.15	M24	3.346	0.984x0.551	F25-F30	3075.6
40"	16.14	36	4	32	47.25	1-1/2" 8UN	1.63	28.35	26.57	6.30	4.92	11.02	2.76	M24	3.543	0.984x0.551	F25-F30	4316.4
42"	16.14	36	4	32	49.50	1-1/2" 8UN	1.63	29.53	27.56	6.30	5.91	11.02	2.76	M24	3.740	0.984x0.551	F30-F35	4666.2
48"	18.50	44	4	40	56.00	1-1/2" 8UN	1.63	33.27	33.86	6.30	6.10	11.81	3.94	M27	4.331	1.102x0.630	F30-F35	7213.8

Metric Dimensions (mm)

Size	L	n	nt	nh	ØBCD	T(TAP)	ØHOLES	H1	H2	H3	H4	K	G	M	ØC	KEY BASE	ISO 5211	WEIGHT
mm	mm	#	#	#	mm	mm	mm	mm	mm	mm	mm	mm	mm	Thread	mm	mm		kg
DN650	292	24	4	20	806.4	1-1/4" 8UN	35.1	520	510	120	100	200	55	M20	65	20x12	F16-F20	872
DN700	292	28	4	24	863.6	1-1/4" 8UN	35.1	570	545	140	100	220	60	M20	70	20x12	F16-F20	940
DN750	318	28	4	24	914.4	1-1/4" 8UN	35.1	600	555	140	100	230	60	M20	75	20x12	F20-F25	1039
DN800	318	28	4	24	977.9	1-1/2" 8UN	41.3	630	600	150	110	270	60	M20	80	22x14	F25-F30	1284
DN850	330	32	4	28	1028.7	1-1/2" 8UN	41.3	650	640	150	110	270	60	M20	80	22x14	F25-F30	1324
DN900	330	32	4	28	1085.8	1-1/2" 8UN	41.3	690	670	150	110	270	80	M24	85	25x14	F25-F30	1398
DN1000	410	36	4	32	1200.2	1-1/2" 8UN	41.3	720	675	160	125	280	70	M24	90	25x14	F25-F30	1962
DN1050	410	36	4	32	1257.3	1-1/2" 8UN	41.3	750	700	160	150	280	70	M24	95	25x14	F30-F35	2121
DN1200	470	44	4	40	1422.4	1-1/2" 8UN	41.3	845	860	160	155	300	100	M27	110	28x16	F30-F35	3279

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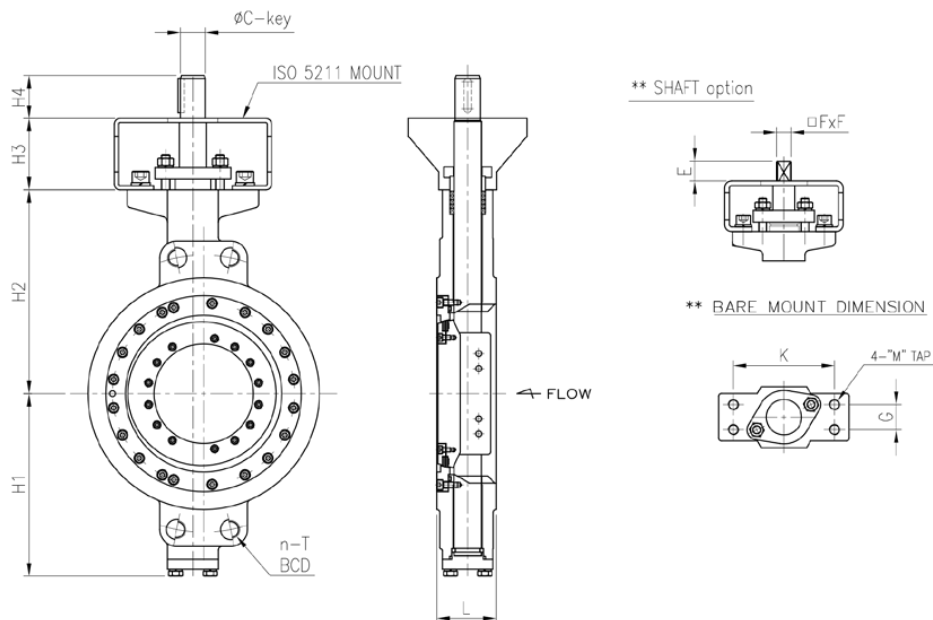
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Dimensional Data (Cont.)

Class 150, Class 300, & Class 600 Dimensional Data

960 (Class 300) Wafer

3" - 24" Dimensions



Standard Dimensions (in)

Size	L	n	ØBCD	T	H1	H2	H3	H4	K	G	M	ØC	KEY BASE	E	□ Fx F	ISO 5211	WEIGHT
in	in	#	in	in	in	in	in	in	in	in	Thread	in	in	in	in		lbs
3"	1.89	4	6.63	0.87	4.61	5.12	2.56	1.57	3.46	0.87	M10	0.630	0.197x0.197	0.51	0.433x0.433	F05-F07	18.9
4"	2.13	4	7.87	0.87	5.63	6.30	2.76	1.65	3.70	0.94	M10	0.787	0.236x0.236	0.87	0.669x0.669	F07-F10	27.7
5"	2.24	4	9.25	3/4" UNC	5.75	6.50	2.76	1.65	3.70	0.94	M10	0.787	0.236x0.236	0.87	0.669x0.669	F07-F10	40.5
6"	2.32	4	10.63	3/4" UNC	7.99	8.27	2.76	1.65	3.70	0.94	M10	0.866	0.315x0.276	1.02	0.750x0.750	F10-F12	48.2
8"	2.87	4	13.00	7/8" UNC	9.17	9.65	3.15	2.36	4.49	1.42	M12	1.181	0.394x0.315	1.26	0.866x0.866	F10-F12	82.1
10"	3.27	4	15.25	1" UNC	10.04	11.22	3.54	2.36	5.91	1.57	M16	1.378	0.394x0.315	1.38	1.063x1.063	F12-F14	117.7
12"	3.62	4	17.75	1-1/8" 8UN	11.42	12.99	3.94	2.95	6.61	1.81	M16	1.575	0.472x0.315	1.38	1.063x1.063	F14-F16	163.7
14"	4.61	4	20.25	1-1/8" 8UN	13.19	14.57	4.33	2.95	5.91	1.57	M16	1.772	0.551x0.354	1.89	1.417x1.417	F14-F16	201.1
16"	5.24	4	22.50	1-1/4" 8UN	14.37	16.34	4.72	2.95	7.32	1.81	M20	1.969	0.630x0.394	1.89	1.417x1.417	F14-F16	324.9
18"	5.87	4	24.76	1-1/4" 8UN	16.54	18.50	5.12	3.54	8.86	2.99	M20	2.362	0.709x0.433	1.97	1.811x1.811	F16-F20	376.9
20"	6.26	4	27.00	1-1/4" 8UN	18.11	19.69	5.51	4.33	8.86	2.99	M20	2.559	0.787x0.472	1.97	1.811x1.811	F20-F25	515.7
24"	7.13	4	32.00	1-1/2" 8UN	20.67	23.23	6.30	4.33	11.02	3.23	M24	3.150	0.984x0.551	-	-	F25-F30	798.2

Metric Dimensions (mm)

Size	L	n	ØBCD	T	H1	H2	H3	H4	K	G	M	ØC	KEY BASE	E	□ Fx F	ISO 5211	WEIGHT
mm	mm	#	mm	mm	mm	mm	mm	mm	mm	mm	Thread	mm	mm	mm	mm		kg
DN80	48	4	168.3	22.2	117	130	65	40	88	22	M10	16	5x5	13	11x11	F05-F07	8.6
DN100	54	4	200	22.2	143	160	70	42	94	24	M10	20	6x6	22	17x17	F07-F10	12.6
DN125	57	4	235	3/4" UNC	146	165	70	42	94	24	M10	20	6x6	22	17x17	F07-F10	18.4
DN150	59	4	269.9	3/4" UNC	203	210	70	42	94	24	M10	22	8x7	26	19x19	F10-F12	21.9
DN200	73	4	330.2	7/8" UNC	233	245	80	60	114	36	M12	30	10x8	32	22x22	F10-F12	37.3
DN250	83	4	387.4	1" UNC	255	285	90	60	150	40	M16	35	10x8	35	27x27	F12-F14	53.5
DN300	92	4	450.8	1-1/8" 8UN	290	330	100	75	168	46	M16	40	12x8	35	27x27	F14-F16	74.4
DN350	117	4	514.4	1-1/8" 8UN	335	370	110	75	150	40	M16	45	14x9	48	36x36	F14-F16	91.4
DN400	133	4	571.5	1-1/4" 8UN	365	415	120	75	186	46	M20	50	16x10	48	36x36	F14-F16	147.7
DN450	149	4	628.8	1-1/4" 8UN	420	470	130	90	225	76	M20	60	18x11	50	46x46	F16-F20	171.3
DN500	159	4	685.8	1-1/4" 8UN	460	500	140	110	225	76	M20	65	20x12	50	46x46	F20-F25	234.4
DN600	181	4	812.8	1-1/2" 8UN	525	590	160	110	280	82	M24	80	25x14	-	-	F25-F30	362.8

95X/96X/97X Series Technical Brochure

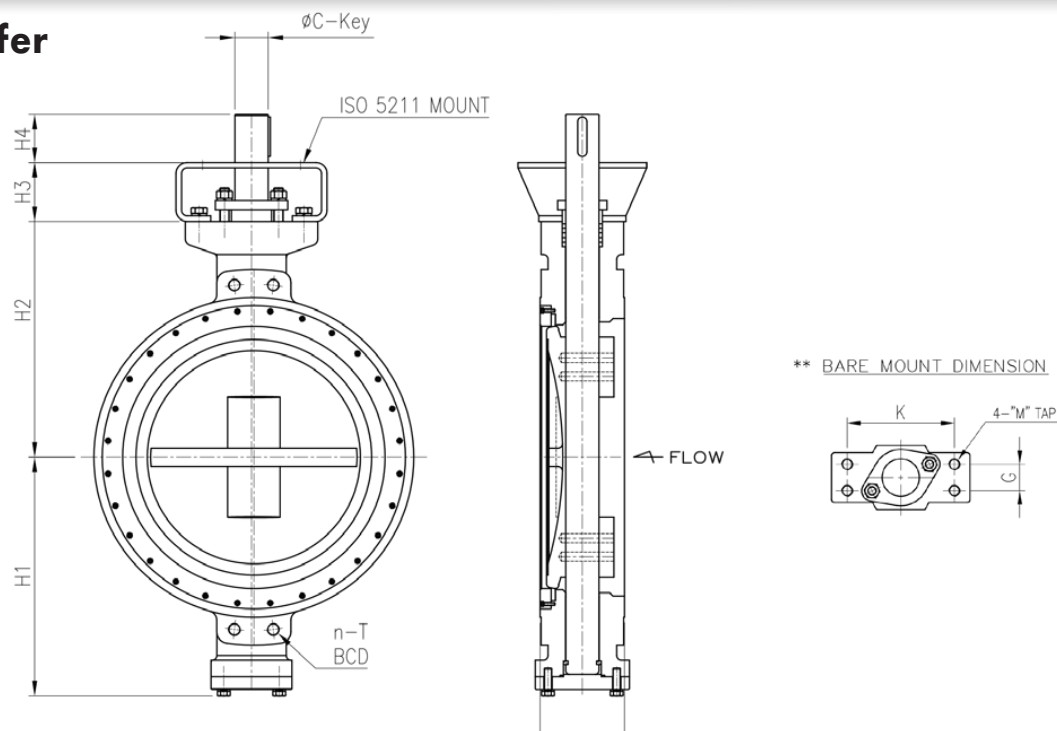
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960 (Class 300) Wafer

26" - 48" Dimensions



Standard Dimensions (in)

Size	L	n	nt	$\varnothing BCD$	$\varnothing T$	H1	H2	H3	H4	K	G	M	$\varnothing C$	KEY BASE	ISO 5211	WEIGHT
in	in	#	#	in	in	in	in	in	in	in	in	Thread	in	in		lbs
26"	8.27	28	4	34.50	1-5/8" 8UN	22.83	23.23	6.30	4.33	10.63	2.36	M20	3.150	0.866x0.551	F20-F25	1174.8
28"	9.02	28	4	37.00	1-5/8" 8UN	25.20	25.98	6.30	4.33	10.63	2.36	M20	3.150	0.866x0.551	F20-F25	1322.2
30"	9.06	28	4	39.25	1-3/4" 8UN	27.17	27.17	6.30	4.33	10.63	3.15	M24	3.346	0.984x0.551	F20-F25	1667.6
32"	9.49	28	4	41.50	1-7/8" 8UN	28.35	28.35	6.30	4.92	11.02	2.76	M24	3.543	0.984x0.551	F25-F30	1885.4
34"	9.49	28	4	43.50	1-7/8" 8UN	29.92	29.53	6.30	5.12	11.81	3.15	M27	3.937	1.102x0.630	F25-F30	2230.8
36"	10.67	32	4	46.00	2" 8UN	30.71	30.71	7.09	5.12	11.81	3.94	M27	4.724	1.260x0.709	F25-F30	2486
40"	11.81	32	4	45.50	1-5/8" 8UN	31.50	31.89	7.09	5.91	12.60	4.33	M30	5.315	1.417x0.787	F25-F30	3315.4
42"	11.81	32	4	47.50	1-5/8" 8UN	33.07	34.25	7.09	5.91	12.60	4.33	M30	5.315	1.417x0.787	F30-F35	4219.6
48"	12.60	32	4	54.00	1-7/8" 8UN	37.40	38.19	7.09	7.09	13.78	4.72	M30	6.299	1.575x0.866	F30-F35	5566

Metric Dimensions (mm)

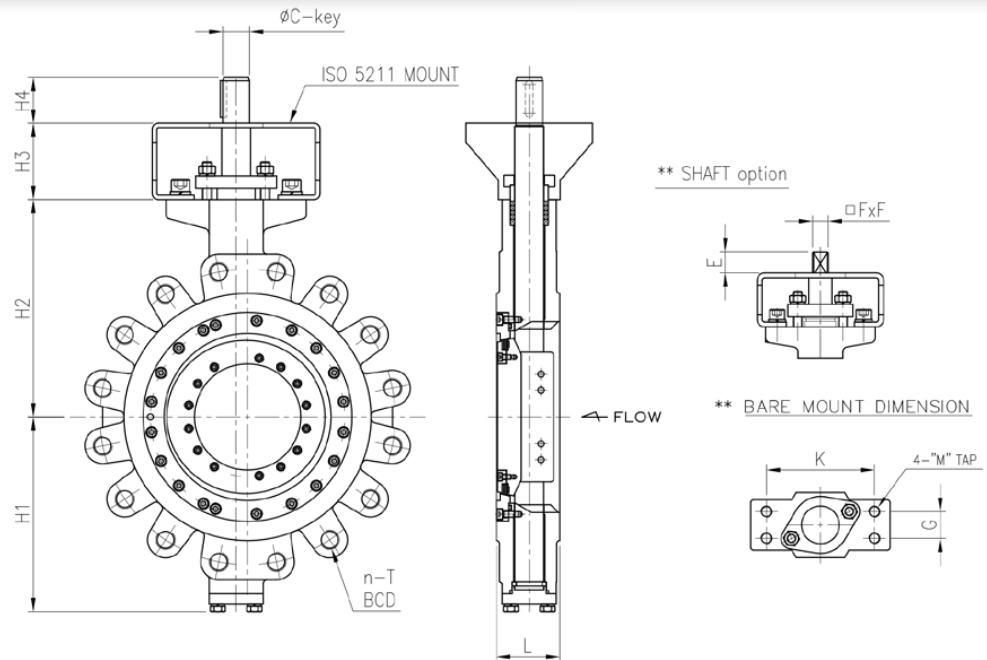
Size	L	n	nt	$\varnothing BCD$	$\varnothing T$	H1	H2	H3	H4	K	G	M	$\varnothing C$	KEY BASE	ISO 5211	WEIGHT
mm	mm	#	#	mm	mm	mm	mm	mm	mm	mm	mm	Thread	mm	mm		kg
DN650	210	28	4	876.3	1-5/8" 8UN	580	590	160	110	270	60	M20	80	22x14	F20-F25	534
DN700	229	28	4	939.8	1-5/8" 8UN	640	660	160	110	270	60	M20	80	22x14	F20-F25	601
DN750	230	28	4	997	1-3/4" 8UN	690	690	160	110	270	80	M24	85	25x14	F20-F25	758
DN800	241	28	4	1054.1	1-7/8" 8UN	720	720	160	125	280	70	M24	90	25x14	F25-F30	857
DN850	241	28	4	1104.9	1-7/8" 8UN	760	750	160	130	300	80	M27	100	28x16	F25-F30	1014
DN900	271	32	4	1168.4	2" 8UN	780	780	180	130	300	100	M27	120	32x18	F25-F30	1130
DN1000	300	32	4	1155.7	1-5/8" 8UN	800	810	180	150	320	110	M30	135	36x20	F25-F30	1507
DN1050	300	32	4	1206.5	1-5/8" 8UN	840	870	180	150	320	110	M30	135	36x20	F30-F35	1918
DN1200	320	32	4	1371.6	1-7/8" 8UN	950	970	180	180	350	120	M30	160	40x22	F30-F35	2530

Dimensional Data (Cont.)

Class 150, Class 300, & Class 600 Dimensional Data

961 (Class 300) Lug

3" - 24" Dimensions



Standard Dimensions (in)

Size	L	n	ØBCD	ØT	H1	H2	H3	H4	K	G	M	ØC	KEY BASE	E	□ Fx F	ISO 5211	WEIGHT
in	in	#	in	in	in	in	in	in	in	in	Thread	in	in	in	in		lbs
3"	1.89	8	6.63	3/4" UNC	4.61	5.12	2.56	1.57	3.46	0.87	M10	0.630	0.197x0.197	0.51	0.433x0.433	F05-F07	22.2
4"	2.13	8	7.87	3/4" UNC	5.63	6.30	2.76	1.65	3.70	0.94	M10	0.787	0.236x0.236	0.87	0.669x0.669	F07-F10	38.1
5"	2.24	8	9.25	3/4" UNC	5.75	6.50	2.76	1.65	3.70	0.94	M10	0.787	0.236x0.236	0.87	0.669x0.669	F07-F10	61.8
6"	2.32	12	10.63	3/4" UNC	7.99	8.27	2.76	1.65	3.70	0.94	M10	0.866	0.315x0.276	1.02	0.750x0.750	F10-F12	67.5
8"	2.87	12	13.00	7/8" UNC	9.17	9.65	3.15	2.36	4.49	1.42	M12	1.181	0.394x0.315	1.26	0.866x0.866	F10-F12	103.8
10"	3.27	16	15.25	1" UNC	10.04	11.22	3.54	2.36	5.91	1.57	M16	1.378	0.394x0.315	1.38	1.063x1.063	F12-F14	171.8
12"	3.62	16	17.75	1-1/8" 8UN	11.42	12.99	3.94	2.95	6.61	1.81	M16	1.575	0.472x0.315	1.38	1.063x1.063	F14-F16	242.0
14"	4.61	20	20.25	1-1/8" 8UN	13.19	14.57	4.33	2.95	5.91	1.57	M16	1.772	0.551x0.354	1.89	1.417x1.417	F14-F16	473.9
16"	5.24	20	22.50	1-1/4" 8UN	14.37	16.34	4.72	2.95	7.32	1.81	M20	1.969	0.630x0.394	1.89	1.417x1.417	F14-F16	557.5
18"	5.87	24	24.76	1-1/4" 8UN	16.54	18.50	5.12	3.54	8.86	2.99	M20	2.362	0.709x0.433	1.97	1.811x1.811	F16-F20	672.5
20"	6.26	24	27.00	1-1/4" 8UN	18.11	19.69	5.51	4.33	8.86	2.99	M20	2.559	0.787x0.472	1.97	1.811x1.811	F20-F25	946.9
24"	7.13	24	32.00	1-1/2" 8UN	20.67	23.23	6.30	4.33	11.02	3.23	M24	3.150	0.984x0.551	-	-	F25-F30	1526.6

Metric Dimensions (mm)

Size	L	n	ØBCD	ØT	H1	H2	H3	H4	K	G	M	ØC	KEY BASE	E	□ Fx F	ISO 5211	WEIGHT
mm	mm	#	mm	mm	mm	mm	mm	mm	mm	mm	Thread	mm	mm	mm	mm		kg
DN80	48	8	168.3	3/4" UNC	117	130	65	40	88	22	M10	16	5x5	13	11x11	F05-F07	10.1
DN100	54	8	200	3/4" UNC	143	160	70	42	94	24	M10	20	6x6	22	17x17	F07-F10	17.3
DN125	57	8	235	3/4" UNC	146	165	70	42	94	24	M10	20	6x6	22	17x17	F07-F10	28.1
DN150	59	12	269.9	3/4" UNC	203	210	70	42	94	24	M10	22	8x7	26	19x19	F10-F12	30.7
DN200	73	12	330.2	7/8" UNC	233	245	80	60	114	36	M12	30	10x8	32	22x22	F10-F12	47.2
DN250	83	16	387.4	1" UNC	255	285	90	60	150	40	M16	35	10x8	35	27x27	F12-F14	78.1
DN300	92	16	450.8	1-1/8" 8UN	290	330	100	75	168	46	M16	40	12x8	35	27x27	F14-F16	110
DN350	117	20	514.4	1-1/8" 8UN	335	370	110	75	150	40	M16	45	14x9	48	36x36	F14-F16	215.4
DN400	133	20	571.5	1-1/4" 8UN	365	415	120	75	186	46	M20	50	16x10	48	36x36	F14-F16	253.4
DN450	149	24	628.8	1-1/4" 8UN	420	470	130	90	225	76	M20	60	18x11	50	46x46	F16-F20	305.7
DN500	159	24	685.8	1-1/4" 8UN	460	500	140	110	225	76	M20	65	20x12	50	46x46	F20-F25	430.4
DN600	181	24	812.8	1-1/2" 8UN	525	590	160	110	280	82	M24	80	25x14	-	-	F25-F30	693.9

95X/96X/97X Series Technical Brochure

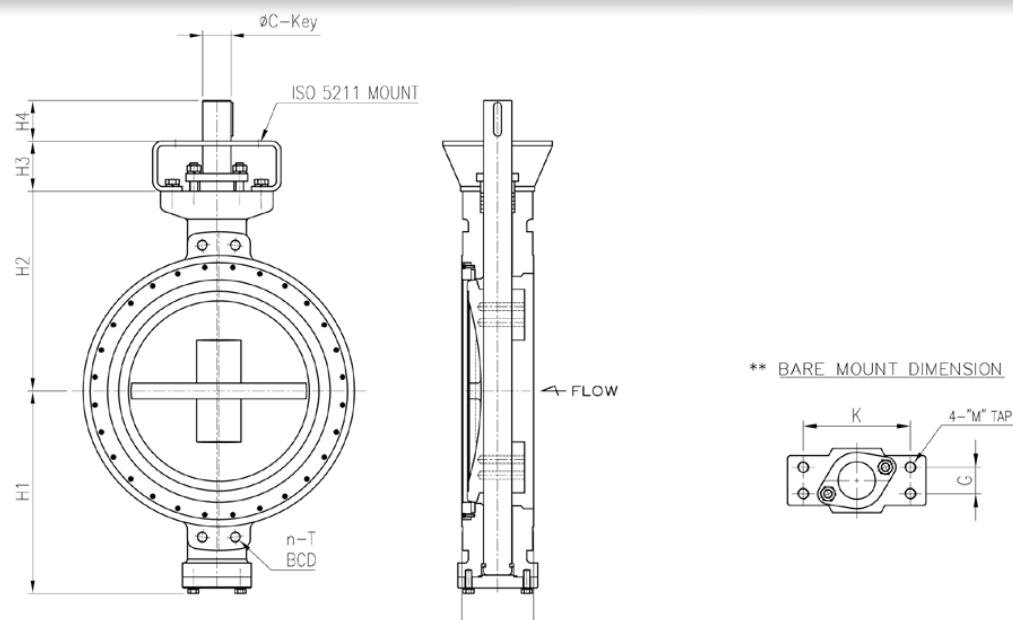
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961 (Class 300) Lug

26" - 48" Dimensions



Standard Dimensions (in)

Size	L	n	ØBCD	ØT	H1	H2	H3	H4	K	G	M	ØC	KEY BASE	ISO 5211	WEIGHT
in	in	#	in	in	in	in	in	in	in	in	Thread	in	in		lbs
26"	6.50	28	34.50	1-5/8" 8UN	20.47	20.08	6.30	4.33	10.63	2.36	M20	3.150	0.866x0.551	F20-F25	1878.8
28"	6.50	28	37.00	1-5/8" 8UN	22.44	21.46	6.30	4.33	10.63	2.36	M20	3.150	0.866x0.551	F20-F25	2072.4
30"	7.48	28	39.25	1-3/4" 8UN	23.62	21.85	6.30	4.33	10.63	3.15	M24	3.346	0.984x0.551	F20-F25	2455.2
32"	7.48	28	41.50	1-7/8" 8UN	24.80	23.62	6.30	4.92	11.02	2.76	M24	3.543	0.984x0.551	F25-F30	2554.2
34"	7.99	32	43.50	1-7/8" 8UN	25.59	25.20	7.09	5.12	11.81	3.15	M27	3.937	1.102x0.630	F25-F30	3009.6
36"	7.99	32	46.00	2" 8UN	27.17	26.38	7.09	5.12	11.81	3.94	M27	4.724	1.260x0.709	F25-F30	3385.8
40"	8.50	36	45.50	1-5/8" 8UN	28.35	26.57	7.09	5.91	12.60	4.33	M30	5.315	1.417x0.787	F25-F30	4466
42"	9.88	36	47.50	1-5/8" 8UN	29.53	27.56	7.09	5.91	12.60	4.33	M30	5.315	1.417x0.787	F30-F35	5728.8
48"	10.00	44	54.00	1-7/8" 8UN	33.27	33.86	7.09	7.09	13.78	4.72	M30	6.299	1.575x0.866	F30-F35	7906.8

Metric Dimensions (mm)

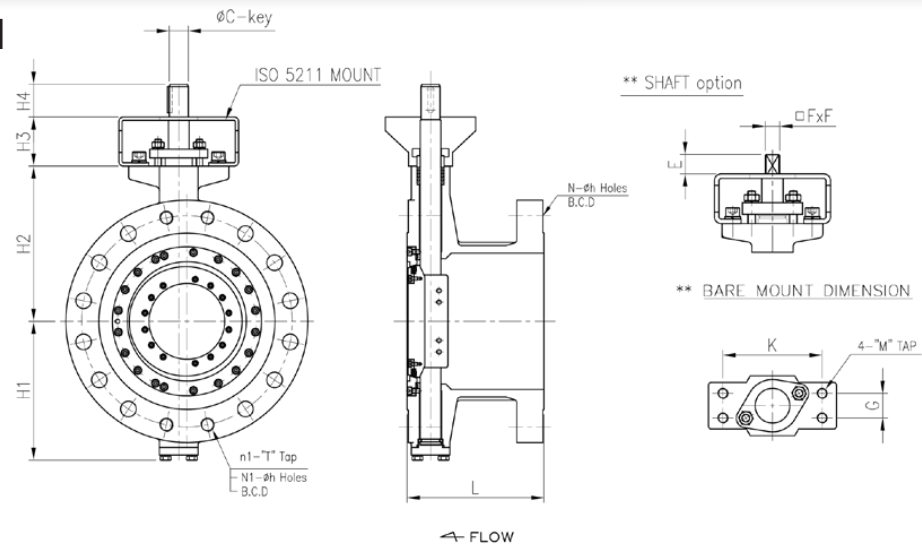
Size	L	n	ØBCD	ØT	H1	H2	H3	H4	K	G	M	ØC	KEY BASE	ISO 5211	WEIGHT
mm	mm	#	mm	mm	mm	mm	mm	mm	mm	mm	Thread	mm	mm		kg
DN650	165	28	876.3	1-5/8" 8UN	520	510	160	110	270	60	M20	80	22x14	F20-F25	854
DN700	165	28	939.8	1-5/8" 8UN	570	545	160	110	270	60	M20	80	22x14	F20-F25	942
DN750	190	28	997	1-3/4" 8UN	600	555	160	110	270	80	M24	85	25x14	F20-F25	1116
DN800	190	28	1054.1	1-7/8" 8UN	630	600	160	125	280	70	M24	90	25x14	F25-F30	1161
DN850	203	32	1104.9	1-7/8" 8UN	650	640	180	130	300	80	M27	100	28x16	F25-F30	1368
DN900	203	32	1168.4	2" 8UN	690	670	180	130	300	100	M27	120	32x18	F25-F30	1539
DN1000	216	36	1155.7	1-5/8" 8UN	720	675	180	150	320	110	M30	135	36x20	F25-F30	2030
DN1050	251	36	1206.5	1-5/8" 8UN	750	700	180	150	320	110	M30	135	36x20	F30-F35	2604
DN1200	254	44	1371.6	1-7/8" 8UN	845	860	180	180	350	120	M30	160	40x22	F30-F35	3594

Dimensional Data (Cont.)

Class 150, Class 300, & Class 600 Dimensional Data

963 (Class 300) Flanged

3" - 24" Dimensions



Standard Dimensions (in)

Size	L	ØBCD	n1	T(TAP)	N	N1	h	H1	H2	H3	H4	K	G	M	ØC	KEY BASE	E	□ Fx F	ISO 5211	WEIGHT
in	in	in	#	in	#	#	in	in	in	in	in	in	in	Thread	in	in	in	in		lbs
3"	7.09	6.63	4	3/4" UNC	8	4	0.87	4.61	5.12	2.56	1.57	3.46	0.87	M10	0.630	0.197x0.197	0.51	0.433x0.433	F05-F07	60.3
4"	7.48	7.87	4	3/4" UNC	8	4	0.87	5.63	6.30	2.76	1.65	3.70	0.94	M10	0.787	0.236x0.236	0.87	0.669x0.669	F07-F10	77.7
5"	8.27	9.25	4	3/4" UNC	8	4	0.87	5.75	6.50	2.76	1.65	3.70	0.94	M10	0.787	0.236x0.236	0.87	0.669x0.669	F07-F10	96.4
6"	8.27	10.63	4	3/4" UNC	12	8	0.87	7.99	8.27	2.76	1.65	3.70	0.94	M10	0.866	0.315x0.276	1.02	0.750x0.750	F10-F12	117.3
8"	9.06	13.00	4	7/8" UNC	12	8	1.00	9.17	9.65	2.95	2.36	4.49	1.42	M12	1.181	0.394x0.315	1.26	0.866x0.866	F10-F12	199.3
10"	9.84	15.25	4	1" UNC	16	12	1.12	10.04	11.22	3.15	2.36	5.91	1.57	M16	1.378	0.394x0.315	1.38	1.063x1.063	F12-F14	308.7
12"	10.63	17.75	4	1-1/8" 8UN	16	12	1.25	11.42	12.99	3.54	2.95	6.61	1.81	M16	1.575	0.472x0.315	1.38	1.063x1.063	F14-F16	452.5
14"	11.42	20.25	4	1-1/8" 8UN	20	16	1.25	13.19	14.57	3.54	2.95	5.91	1.57	M16	1.772	0.551x0.354	1.89	1.417x1.417	F14-F16	642.2
16"	12.20	22.50	4	1-1/4" 8UN	20	16	1.38	14.37	16.34	4.33	2.95	7.32	1.81	M20	1.969	0.630x0.394	1.89	1.417x1.417	F14-F16	944.7
18"	12.99	24.76	4	1-1/4" 8UN	24	20	1.38	16.54	18.50	4.33	3.54	8.86	2.99	M20	2.362	0.709x0.433	1.97	1.811x1.811	F16-F20	1052.0
20"	13.78	27.00	4	1-1/4" 8UN	24	20	1.38	18.11	19.69	4.72	4.33	8.86	2.99	M20	2.559	0.787x0.472	1.97	1.811x1.811	F20-F25	1346.2
24"	15.35	32.00	4	1-1/2" 8UN	24	20	1.62	20.67	23.23	5.51	4.33	11.02	3.23	M24	3.150	0.984x0.551	-	-	F25-F30	1771.0

Metric Dimensions (mm)

Size	L	ØBCD	n1	T(TAP)	N	N1	h	H1	H2	H3	H4	K	G	M	ØC	KEY BASE	E	□ Fx F	ISO 5211	WEIGHT
mm	mm	mm	#	mm	#	#	mm	mm	mm	mm	mm	mm	mm	Thread	mm	mm	mm	mm		kg
DN80	180	168.3	4	3/4" UNC	8	4	22.2	117	130	65	40	88	22	M10	16	5x5	13	11x11	F05-F07	27.4
DN100	190	200	4	3/4" UNC	8	4	22.2	143	160	70	42	94	24	M10	20	6x6	22	17x17	F07-F10	35.3
DN125	210	235	4	3/4" UNC	8	4	22.2	146	165	70	42	94	24	M10	20	6x6	22	17x17	F07-F10	43.8
DN150	210	269.9	4	3/4" UNC	12	8	22.2	203	210	70	42	94	24	M10	22	8x7	26	19x19	F10-F12	53.3
DN200	230	330.2	4	7/8" UNC	12	8	25.4	233	245	75	60	114	36	M12	30	10x8	32	22x22	F10-F12	90.6
DN250	250	387.4	4	1" UNC	16	12	28.4	255	285	80	60	150	40	M16	35	10x8	35	27x27	F12-F14	140.3
DN300	270	450.8	4	1-1/8" 8UN	16	12	31.8	290	330	90	75	168	46	M16	40	12x8	35	27x27	F14-F16	205.7
DN350	290	514.4	4	1-1/8" 8UN	20	16	31.8	335	370	90	75	150	40	M16	45	14x9	48	36x36	F14-F16	291.9
DN400	310	571.5	4	1-1/4" 8UN	20	16	35.1	365	415	110	75	186	46	M20	50	16x10	48	36x36	F14-F16	429.4
DN450	330	628.8	4	1-1/4" 8UN	24	20	35.1	420	470	110	90	225	76	M20	60	18x11	50	46x46	F16-F20	478.2
DN500	350	685.8	4	1-1/4" 8UN	24	20	35.1	460	500	120	110	225	76	M20	65	20x12	50	46x46	F20-F25	611.9
DN600	390	812.8	4	1-1/2" 8UN	24	20	41.1	525	590	140	110	280	82	M24	80	25x14	-	-	F25-F30	805

95X/96X/97X Series Technical Brochure

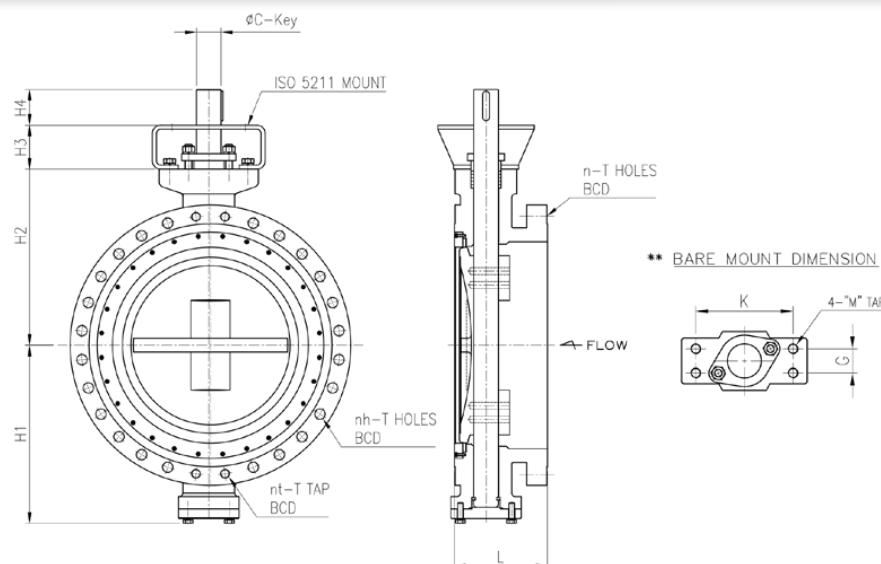
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963 (Class 300) Flanged

26" - 48" Dimensions



Standard Dimensions (in)

Size	L	n	nt	nh	ØBCD	T(TAP)	ØHOLES	H1	H2	H3	H4	K	G	M	ØC	KEY BASE	ISO 5211	WEIGHT
in	in	#	#	#	in	in	in	in	in	in	in	in	in	Thread	in	in		lbs
26"	16.14	28	4	24	34.50	1-5/8" 8UN	1.75	20.47	20.08	4.53	3.94	7.87	2.17	M20	2.559	0.787x0.472	F16-F20	2877.6
28"	16.93	28	4	24	37.00	1-5/8" 8UN	1.75	22.44	21.46	5.51	3.94	8.66	2.36	M20	2.756	0.787x0.472	F16-F20	3104.2
30"	17.72	28	4	24	39.25	1-3/4" 8UN	1.87	23.62	21.85	5.51	3.94	9.06	2.36	M20	2.953	0.787x0.472	F20-F25	3429.8
32"	18.50	28	4	24	41.50	1-7/8" 8UN	2.00	24.80	23.62	5.91	4.33	10.63	2.36	M20	3.150	0.866x0.551	F25-F30	4237.2
34"	20.08	28	4	24	43.50	1-7/8" 8UN	2.00	25.59	25.20	5.91	4.33	10.63	2.36	M20	3.150	0.866x0.551	F25-F30	4371.4
36"	20.08	32	4	28	46.00	2" 8UN	2.13	27.17	26.38	5.91	4.33	10.63	3.15	M24	3.346	0.984x0.551	F25-F30	4611.2
40"	21.65	32	4	28	45.50	1-5/8" 8UN	1.75	28.35	26.57	6.30	4.92	11.02	2.76	M24	3.543	0.984x0.551	F25-F30	6472.4
42"	22.44	32	4	28	47.50	1-5/8" 8UN	1.75	29.53	27.56	6.30	5.91	11.02	2.76	M24	3.740	0.984x0.551	F30-F35	7000.4
48"	24.80	32	4	28	54.00	1-7/8" 8UN	2.00	33.27	33.86	6.30	6.10	11.81	3.94	M27	4.331	1.102x0.630	F30-F35	10821.8

Metric Dimensions (mm)

Size	L	n	nt	nh	ØBCD	T(TAP)	ØHOLES	H1	H2	H3	H4	K	G	M	ØC	KEY BASE	ISO 5211	WEIGHT
mm	mm	#	#	#	mm	mm	mm	mm	mm	mm	mm	mm	mm	Thread	mm	mm		kg
DN650	410	28	4	24	876.3	1-5/8" 8UN	44.5	520	510	115	100	200	55	M20	65	20x12	F16-F20	1308
DN700	430	28	4	24	939.8	1-5/8" 8UN	44.5	570	545	140	100	220	60	M20	70	20x12	F16-F20	1411
DN750	450	28	4	24	997	1-3/4" 8UN	47.6	600	555	140	100	230	60	M20	75	20x12	F20-F25	1559
DN800	470	28	4	24	1054.1	1-7/8" 8UN	50.8	630	600	150	110	270	60	M20	80	22x14	F25-F30	1926
DN850	510	28	4	24	1104.9	1-7/8" 8UN	50.8	650	640	150	110	270	60	M20	80	22x14	F25-F30	1987
DN900	510	32	4	28	1168.4	2" 8UN	54.1	690	670	150	110	270	80	M24	85	25x14	F25-F30	2096
DN1000	550	32	4	28	1155.7	1-5/8" 8UN	44.5	720	675	160	125	280	70	M24	90	25x14	F25-F30	2942
DN1050	570	32	4	28	1206.5	1-5/8" 8UN	44.5	750	700	160	150	280	70	M24	95	25x14	F30-F35	3182
DN1200	630	32	4	28	1371.6	1-7/8" 8UN	50.8	845	860	160	155	300	100	M27	110	28x16	F30-F35	4919

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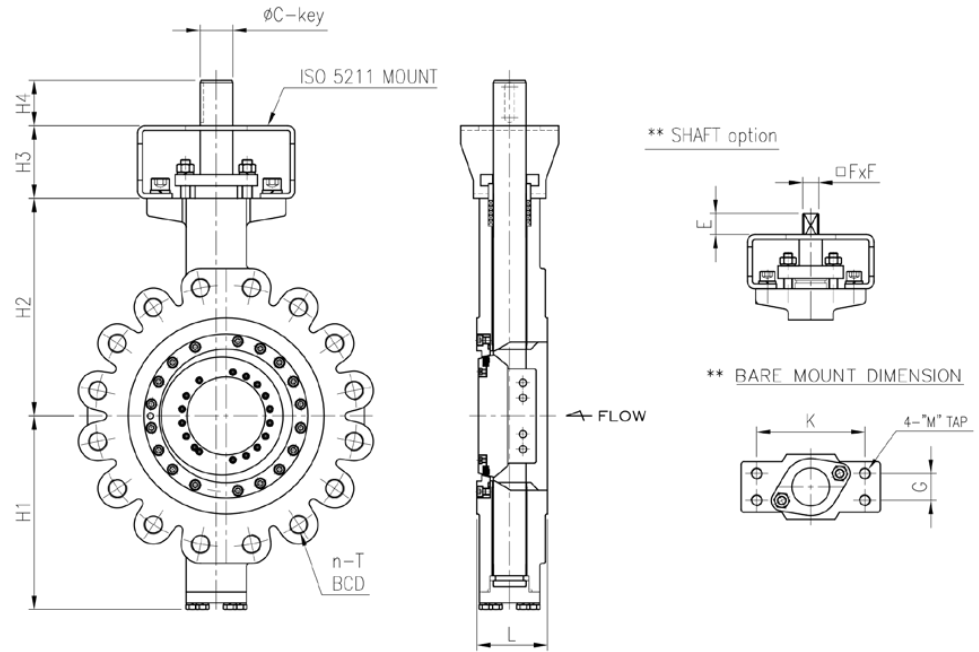
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Dimensional Data (Cont.)

Class 150, Class 300, & Class 600 Dimensional Data

971 (Class 600) Lug

4" - 24" Dimensions



Standard Dimensions (in)

Size	L	n	ØBCD	ØT	H1	H2	H3	H4	K	G	M	ØC	KEY BASE	E	□ Fx F	ISO 5211	WEIGHT
in	in	#	in	in	in	in	in	in	in	in	Thread	in	in	in	in		lbs
4"	2.52	8	8.50	7/8" UNC	7.09	8.66	3.54	1.77	4.49	1.42	M12	0.984	0.315x0.276	1.02	0.750x0.750	F10-F12	40.5
6"	3.07	12	11.50	1" UNC	8.58	9.84	3.54	2.36	5.75	1.57	M12	1.378	0.394x0.315	1.38	1.063x1.063	F12-F14	173.4
8"	4.02	12	13.75	1-1/8" 8UN	9.65	10.83	3.94	2.95	6.14	2.05	M16	1.575	0.472x0.315	1.38	1.063x1.063	F14-F16	237.8
10"	4.61	16	17.00	1-1/4" 8UN	12.60	14.17	4.33	2.95	7.28	2.05	M20	1.969	0.630x0.394	1.89	1.417x1.417	F14-F16	374.4
12"	5.51	20	19.25	1-1/4" 8UN	12.99	14.57	4.72	3.54	7.87	2.13	M22	2.362	0.709x0.433	1.97	1.811x1.811	F16-F20	574.4
14"	6.10	20	20.75	1-3/8" 8UN	14.96	16.54	5.12	3.54	8.86	2.99	M22	2.559	0.787x0.420	1.97	1.811x1.811	F20-F25	738.5
16"	7.01	20	23.75	1-1/2" 8UN	16.93	19.09	5.51	4.33	11.02	3.23	M24	3.150	0.984x0.551	-	-	F20-F25	901.6
18"	7.87	20	25.75	1-5/8" 8UN	17.72	19.69	6.30	4.33	11.02	3.23	M24	3.346	0.984x0.551	-	-	F25-F30	1137.4
20"	8.50	24	28.50	1-5/8" 8UN	19.69	20.08	6.30	4.72	11.81	3.54	M27	3.740	1.102x0.630	-	-	F30-F35	1487.2
24"	9.13	24	33.00	1-5/8" 8UN	23.82	24.80	6.30	5.12	13.78	3.94	M30	4.724	1.260x0.709	-	-	F35-F40	2117.5

Metric Dimensions (mm)

Size	L	n	ØBCD	ØT	H1	H2	H3	H4	K	G	M	ØC	KEY BASE	E	□ Fx F	ISO 5211	WEIGHT
mm	mm	#	mm	mm	mm	mm	mm	mm	mm	mm	Thread	mm	mm	mm	mm		kg
DN100	64	8	215.9	7/8" UNC	180	220	90	45	114	36	M12	25	8x7	26	19x19	F10-F12	18.4
DN150	78	12	292.1	1" UNC	218	250	90	60	146	40	M12	35	10x8	35	27x27	F12-F14	78.8
DN200	102	12	349.2	1-1/8" 8UN	245	275	100	75	156	52	M16	40	12x8	35	27x27	F14-F16	108.1
DN250	117	16	431.8	1-1/4" 8UN	320	360	110	75	185	52	M20	50	16x10	48	36x36	F14-F16	170.2
DN300	140	20	489	1-1/4" 8UN	330	370	120	90	200	54	M22	60	18x11	50	46x46	F16-F20	261.1
DN350	155	20	527	1-3/8" 8UN	380	420	130	90	225	76	M22	65	20x12	50	46x46	F20-F25	335.7
DN400	178	20	603.2	1-1/2" 8UN	430	485	140	110	280	82	M24	80	25x14	-	-	F20-F25	409.8
DN450	200	20	654	1-5/8" 8UN	450	500	160	110	280	82	M24	85	25x14	-	-	F25-F30	517
DN500	216	24	723.9	1-5/8" 8UN	500	510	160	120	300	90	M27	95	28x16	-	-	F30-F35	676
DN600	232	24	838.2	1-5/8" 8UN	605	630	160	130	350	100	M30	120	32x18	-	-	F35-F40	962.5

95X/96X/97X Series Technical Brochure

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Standards, Certifications & Approvals

CE, NSF/ANSI 61



CE Marking

is a mandatory conformity marking for certain products sold within the European Economic Area (EEA) since 1985. The CE marking is also found on products sold outside the EEA that are manufactured in, or designed to be sold in, the EEA. This makes the CE marking recognizable worldwide even to people who are not familiar with the European Economic Area. It is in that sense similar to the FCC Declaration of Conformity used on certain electronic devices sold in the United States.

The CE marking is the manufacturer's declaration that the product meets the requirements of the applicable EC directives.



NSF/ANSI 61

NSF/ANSI Standard 61

NSF/ANSI 61 sets health effects criteria for many water system components including:

- Protective barrier materials (cements, paints, coatings)
- Joining and sealing materials (gaskets, adhesives, lubricants)
- Mechanical devices (water meters, valves, filters)
- Pipes and related products (pipe, hose, fittings)
- Plumbing devices (faucets, drinking fountains)
- Process media (filter media, ion exchange resins)
- Non-metallic potable water materials

As it relates to valves specifically, it assures that the materials in contact with the flow stream do not introduce toxins into the water in amounts that exceed allowable exposure limits.

Some trims excluded. See pg. 2-4

95X/96X/97X Series Technical Brochure

Max-Air Technology Inc. | Rotary Actuators & Valve Automation Solutions



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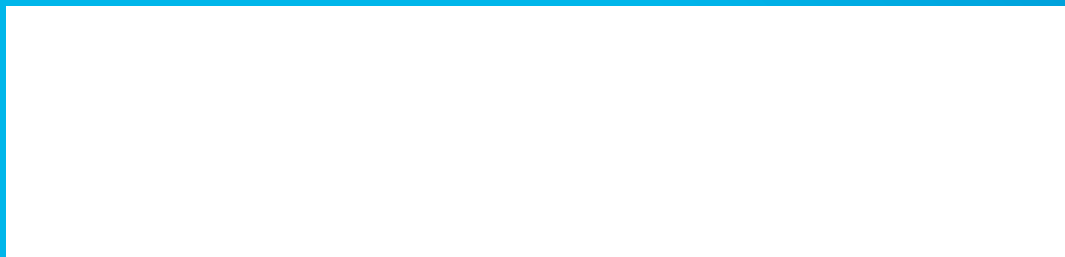
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