

MCV600 Series High-Performance Control Valves

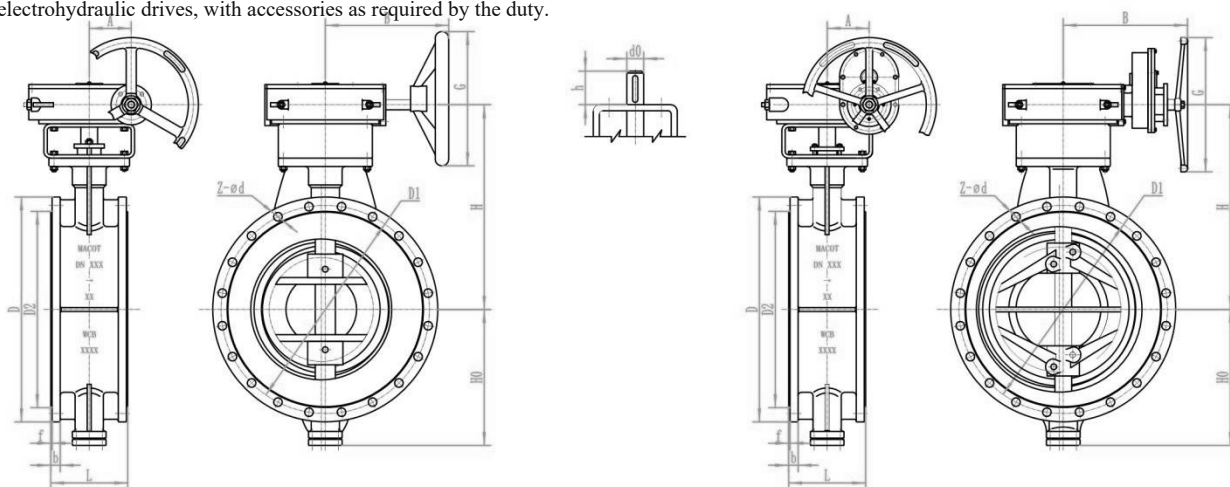
MCV-631 Triple-Offset Metal-Seated Butterfly Valve

The MCV-631 is a high-performance, long-life control valve with a triple-offset disc and seat. Its multilayer or all-metal sealing arrangement provides both modulating control and tight shutoff in demanding service.

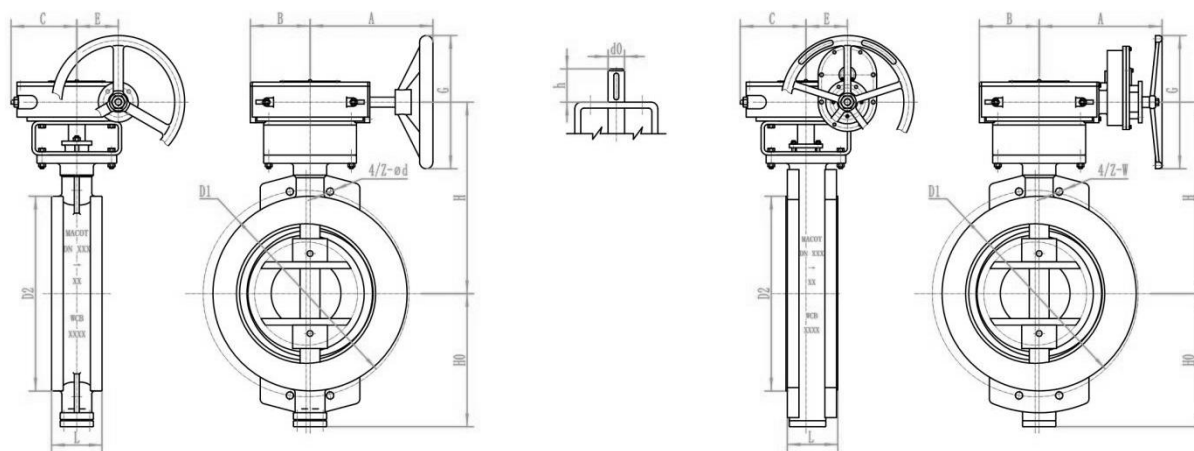
It is used in metallurgy, steelmaking, power generation, petroleum, chemical processing, district heating, water supply and drainage.

MCV-631D: multilayer laminated seal. MCV-631Y: metal-to-metal seat.

Actuation options include gear operator, pneumatic, electric and electrohydraulic drives, with accessories as required by the duty.



Flanged valve outline



Wafer valve outline

☐ Principal Specifications and Technical Data

- Nominal Size and Rated Flow Coefficient Cv

DN (mm)	50	65	80	100	125	150	200	250	300	350	400	450
Rated Cv	100	160	260	470	760	1300	2250	3600	5000	6700	8700	11000

DN (mm)	500	600	700	800	900	1000	1200	1400	1600	1800	2000
Rated Cv	14400	21000	28500	37200	47000	58100	83700	114000	148400	188000	232800

- Main Technical Specifications

Nominal size	DN50-DN2000; ANSI 2-80 in.
Pressure class	PN10/16/25/40/63/100; ANSI Class 150/300/600
Flange standard	GB/T 9113-2000; HG/T 20592/20615-2009; ASME B16.5-2009; JB/T 79-1994
Face-to-face	GB/T 12221-2005; ASME B16.10-2000
Flange facing	RF (raised face); MFM (male/female face)
Rated travel	90°
Flow characteristic	Approximately equal percentage
Shutoff class	Class V (metal seat); Class VI (soft seat); ASME B16.104-1998; GB/T 4213-2008

☐ Applicable Standards

Design and manufacture	Flange connection	Face-to-face	Inspection and test
JB/T 8527	GB/T 9113; HG/T 20592/20615	GB/T 12221	GB/T 13927
API 609	ASME B16.5; ASME B16.47	API 609; ASME B16.10	API 598
EN 593	EN 1092	EN 558	EN 12266-1
ISO 10631	ISO 7005	ISO 5752	ISO 5208

☐ Valve Construction and Features

- Triple-Offset Geometry

Offset 1: The stem axis lies behind the disc sealing plane, allowing an uninterrupted circumferential sealing line around the seat.

Offset 2: The stem axis is displaced from the valve/pipe centerline. The disc rotates clear of the seat, reducing rubbing and torque.

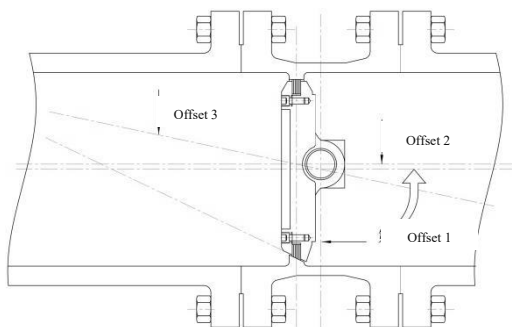
Offset 3: An inclined conical seat has an eccentric angular axis. The disc lifts clear on opening and touches the seat only at closure. The mating conical surfaces create a wedge effect and reliable shutoff.

- Reliable Multilayer Sealing Assembly

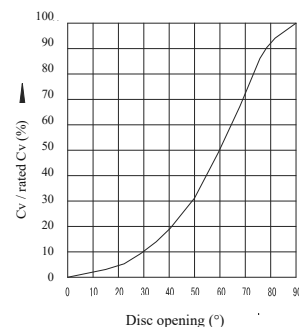
Alternating stainless-steel and graphite/asbestos layers resist fine solids and thermal expansion at the sealing surfaces.

Each laminated sealing layer seals independently; damage to one layer does not compromise the others, even at elevated or low temperatures.

The multilayer design combines metal- and soft-seat advantages for severe high-/low-temperature and high-/low-pressure service.



Triple-offset geometry

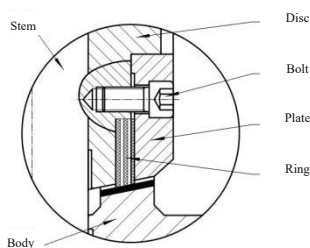


Inherent flow characteristic

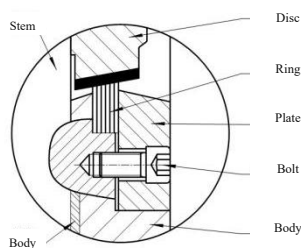
● Bidirectional, Zero-Leakage All-Metal Seat

The seal ring and seat are separately removable. Either can be replaced without scrapping the entire valve, reducing repair time, maintenance effort and life-cycle cost.

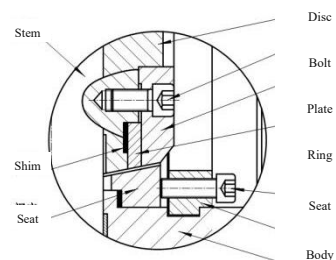
The forged stainless-steel ring and seat have Stellite hardfacing or tungsten-carbide coating for erosion, wear, corrosion and heat resistance.



Disc seal

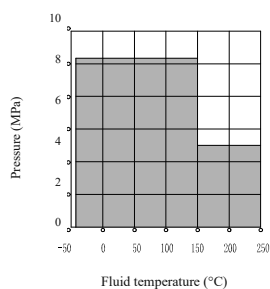


Body seat

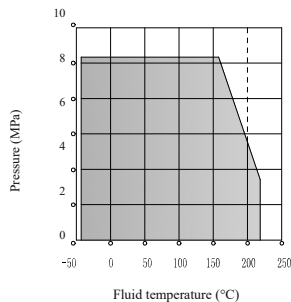


Replaceable metal seat

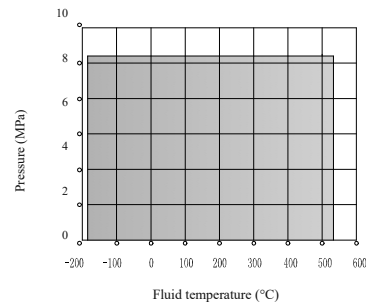
Sealing arrangements



PTFE V-ring / graphite



Filled PTFE packing



Flexible graphite

☐ Principal Valve Component Materials

Component	Material	Component	Material
Body	WCB / CF8 / CF8M / CF3 / CF3M	Seal ring	FKM ring; 316 V-/O-ring
Disc	WCB / CF8 / CF8M / CF3 / CF3M	Bushing	SF-1 / H62 copper / 17-4PH
Seat	Metal: 304 / 316 / 316L Soft: reinforced PTFE MoS2-filled reinforced PTFE	Retainer	WCB / CF8 / CF8M / CF3 / CF3M
Stem	304 / 304L / 316 / 316L / 420 / 17-4PH	Stop piece	CF8 / CF8M / CF3 / CF3M

☐ Overall / Connection Dimensions Flanged PN10

DN	L											kg
		D	H0	H	A	B	G	ISO 5211	H1	d0	h	
50	108	165	82.5	195	50	144	180	F07	135	16	35	16
65	112	185	92.5	210	50	144	180	F07	150	16	35	17
80	114	200	100	215	50	144	180	F07	155	18	40	18
100	127	220	110	235	50	144	180	F07	175	18	40	21
125	140	250	125	290	63	200	300	F10	220	22	50	34
150	140	285	180	310	63	200	300	F10	240	25	50	43
200	152	340	202	360	63	200	300	F10	290	25	50	58
250	165	395	235	395	80	230	350	F12	315	35	70	72
300	178	445	265	425	80	230	350	F12	345	35	70	105
350	190	505	305	475	125	260	400	F14	385	45	90	154
400	216	565	335	520	125	260	400	F16	410	50	100	202
450	222	615	365	550	125	260	400	F16	440	50	100	231
500	229	670	405	610	125	370	400	F16	500	50	100	318
600	267	780	450	655	160	398	500	F25	530	60	120	490
700	292	895	520	725	160	398	500	F25	590	60	120	715
800	318	1015	605	795	200	418	600	F30	635	80	130	1000
900	330	1115	655	885	200	418	700	F30	725	90	130	1240
1000	410	1230	715	950	200	418	700	F30	790	90	130	1496
1200	470	1455	840	1125	263	510	700	F35	945	110	170	2218
1400	530	1675	980	1275	333	550	800	F40	1075	130	200	2674
1600	600	1915	1125	1470	333	550	800	F40	1270	150	220	3409
1800	670	2115	1240	1585	374	590	900	F48	1345	180	230	4735
2000	760	2325	1380	1720	374	590	900	F48	1480	200	230	6967

☐ Overall / Connection Dimensions Flanged PN16

DN	L											kg
		D	H0	H	A	B	G	ISO 5211	H1	d0	h	
50	108	165	82.5	195	50	144	180	F071	135	16	35	16
65	112	185	92.5	210	50	144	180	F07	150	16	35	17
80	114	200	100	215	50	144	180	F07	155	16	40	19
100	127	220	110	235	50	144	180	F07	175	18	40	21.5
125	140	250	125	290	63	200	300	F10	220	22	50	35
150	140	285	180	310	63	200	300	F10	240	25	50	45
200	152	340	202	360	63	200	300	F10	290	25	50	60
250	165	405	235	395	80	230	350	F12	315	35	70	75
300	178	460	265	425	80	230	350	F12	345	35	70	110
350	190	520	305	475	125	260	400	F14	385	45	90	160
400	216	580	335	520	125	260	400	F16	410	50	100	210
450	222	640	365	550	125	260	400	F16	440	50	100	241
500	229	715	405	610	125	370	400	F16	500	50	100	350
600	267	840	445	655	160	398	500	F25	530	60	120	510
700	292	910	520	725	200	418	600	F30	590	80	130	730
800	318	1025	605	795	200	418	600	F30	635	90	130	1030
900	330	1125	655	885	263	510	700	F30	725	100	170	1349
1000	410	1255	715	950	263	510	700	F35	790	100	170	1560
1200	470	1485	840	1125	333	550	800	F35	945	120	200	2315
1400	530	1685	980	1275	333	550	800	F40	1075	140	200	2900
1600	600	1930	1125	1470	374	590	900	F48	1270	160	230	3500
1800	670	2130	1240	1585	374	590	900	F48	1345	160	230	4970
2000	760	2345	1380	1720	453	635	1000	F60	1480	200	250	7315

☐ Overall / Connection Dimensions Flanged PN25

DN	L											kg
		D	H0	H	A	B	G	ISO 5211	H1	d0	h	
50	108	165	82.5	195	50	144	180	F07	135	16	35	17
65	112	185	92.5	210	50	144	180	F07	150	16	35	18
80	114	200	100	215	50	144	180	F07	155	18	40	20
100	127	235	117.5	235	50	144	180	F07	175	18	40	23
125	140	270	135	290	63	200	300	F10	220	22	50	38
150	140	300	180	310	63	200	300	F10	240	25	50	49
200	152	360	185	370	80	230	350	F12	295	30	70	64
250	165	425	215	397	80	230	350	F12	315	35	70	81
300	178	485	250	455	125	260	400	F14	355	40	80	144
350	190	555	285	495	125	260	400	F14	395	45	90	172
400	216	620	330	535	125	370	400	F16	420	50	100	272
450	222	670	345	560	125	370	400	F16	450	50	100	322
500	229	730	390	620	160	398	500	F25	500	60	120	370
600	267	845	445	685	200	418	600	F25	535	70	130	571
700	292	960	545	750	200	418	600	30	600	90	130	808
800	318	1085	625	870	263	510	700	F35	650	100	170	1288
900	330	1185	685	965	263	510	700	F35	765	110	170	1519
1000	410	1320	755	1040	263	510	700	F35	835	110	170	1787
1200	470	1530	860	1180	333	550	800	F40	975	140	200	2510
1400	530	1755	1020	1365	374	590	900	F48	1115	160	230	3203
1600	600	1975	1190	1580	374	590	900	F48	1325	190	230	4025

☐ Overall / Connection Dimensions Flanged PN40

DN	L											kg
		D	H0	H	A	B	G	ISO 5211	H1	d0	h	
50	150	165	82.5	195	50	144	180	F07	135	16	35	19
65	170	185	92.5	210	50	144	180	F07	150	16	35	20
80	180	200	100	230	50	144	180	F07	170	18	40	23
100	190	235	117.5	250	50	144	180	F07	190	18	40	26
125	200	270	135	295	63	200	300	F10	225	25	50	43
150	210	300	215	340	80	230	350	F12	260	30	60	64
200	230	375	220	390	80	230	350	F12	310	35	70	74
250	250	450	265	485	125	260	400	F16	375	40	80	119
300	270	515	290	490	125	260	400	F16	380	45	90	165
350	290	580	310	540	125	370	400	F16	430	50	100	259
400	310	660	340	620	160	398	500	F25	485	60	120	325
450	330	685	390	645	200	418	600	F25	510	70	130	366
500	350	755	415	670	200	418	600	F30	510	70	130	444
600	390	890	500	740	200	418	600	F30	550	90	130	661
700	430	995	580	900	263	510	700	F35	720	110	170	1096
800	470	1140	665	975	333	550	800	F40	775	120	200	1492
900	510	1250	690	1010	333	550	800	F40	810	130	200	1823
1000	550	1360	755	1090	333	550	800	F40	890	140	200	2198
1200	630	1575	950	1365	374	590	900	F48	1125	170	230	3087
1400	710	1795	1090	1475	453	635	1000	F60	1195	210	250	3940

☐ Overall / Connection Dimensions Flanged PN63

DN	L											kg
		D	H0	H	A	B	G	ISO 5211	H1	d0	h	
50	150	180	90	195	50	144	180	F07	135	16	35	22
65	170	205	102.5	210	50	144	180	F07	150	16	35	23
80	180	215	107.5	230	50	144	180	F07	170	18	40	26
100	190	250	125	250	63	200	300	F10	170	22	50	30
125	200	295	147.5	295	63	200	300	F10	225	25	50	50
150	210	345	215	340	80	230	350	F12	260	35	70	73
200	230	415	220	410	125	260	400	F14	320	40	80	86
250	250	470	265	505	125	370	400	F16	395	50	100	134
300	270	530	300	525	160	398	500	F25	405	55	120	251
350	290	600	310	540	160	398	500	F25	415	60	120	290
400	310	670	335	650	200	418	600	F30	490	70	130	390
500	350	800	415	730	263	510	700	F35	550	90	170	508
600	390	930	490	770	263	510	700	F35	590	110	170	918
700	430	1045	580	890	333	550	800	F40	690	130	200	1425
800	470	1165	665	925	333	550	800	F40	725	150	200	1940
900	510	1285	700	1035	374	590	900	F48	795	160	230	2370
1000	550	1415	755	1150	374	590	900	F48	895	180	230	2858
1200	630	1665	860	1330	453	635	1000	F60	1080	200	250	4014

Overall / Connection Dimensions Flanged PN100

DN	L											kg
		D	H0	H	A	B	G	ISO 5211	H1	d0	h	
50	150	195	97.5	195	50	144	180	F07	135	16	35	26
65	170	220	110	210	50	144	180	F07	150	16	35	28
80	180	230	115	270	63	200	300	F10	200	18	50	31
100	190	265	132.5	285	63	200	300	F10	215	25	50	35
125	200	315	157.5	305	80	230	350	F12	225	30	70	58
150	210	355	215	410	125	260	400	F14	320	35	90	84
200	230	430	220	425	125	370	400	F16	320	45	90	125
250	250	505	265	505	125	370	400	F16	395	50	100	153
300	270	585	295	545	160	398	500	F25	410	60	120	281
350	290	655	335	570	200	418	600	F30	410	70	130	328
400	310	715	390	620	200	418	600	F30	460	80	130	443
500	350	870	450	760	263	510	700	F35	480	100	160	584
600	390	990	550	850	333	550	800	F40	650	120	190	1056
700	430	1145	630	945	333	550	800	F40	745	140	200	1640
800	470	1265	740	1100	CF	CF	900	CF	900	170	220	2230

Overall / Connection Dimensions Flanged Class 150

in.	DN	L											kg
			D	H0	H	A	B	G	ISO 5211	H1	d0	h	
2	50	108	150	75	195	50	144	180	F07	135	16	35	16
2.5	65	112	180	90	215	50	144	180	F07	150	16	35	17
3	80	114	190	95	215	50	144	180	F07	155	18	40	19
4	100	127	230	115	235	50	144	180	F07	175	18	40	21
5	125	140	255	127.5	290	63	200	300	F10	220	22	50	35
6	150	140	280	180	310	63	200	300	F10	240	25	50	45
8	200	152	345	202	360	80	230	350	F12	280	30	70	60
10	250	165	405	235	395	80	230	350	F12	315	35	70	75
12	300	178	485	250	455	125	260	400	F14	365	40	80	144
14	350	190	535	285	495	125	260	400	F14	405	45	90	172
16	400	216	595	330	535	125	370	400	F16	425	50	100	272
18	450	222	635	365	550	125	370	400	F16	440	50	100	241
20	500	229	700	405	610	160	398	500	F25	475	60	120	350
24	600	267	815	445	685	200	418	600	F25	550	70	130	571
28	700	292	925	545	785	200	418	600	F30	625	90	130	808
32	800	318	1060	625	870	263	510	700	F35	690	100	170	1288
36	900	330	1170	685	965	263	510	700	F35	785	110	170	1519
40	1000	410	1290	755	1040	263	510	700	F35	860	110	170	1787
48	1200	470	1510	860	1180	333	550	800	F40	980	140	200	2510
56	1400	530	1745	1020	1365	374	590	900	F48	1125	160	230	3203
	1500	600	1855	1080	1465	374	590	900	F48	1225	160	230	4955

☐ Overall / Connection Dimensions Flanged Class 300

in.	DN	L											kg
			D	H0	H	A	B	G	ISO 5211	H1	d0	h	
2	50	150	165	82.5	195	50	144	180	F07	135	16	35	19
2.5	65	170	190	95	210	50	144	180	F07	150	16	35	20
3	80	180	210	105	230	50	144	180	F07	170	18	40	23
4	100	190	255	127.5	250	50	144	180	F07	190	18	40	26
5	125	200	280	140	295	63	200	300	F10	225	25	50	43
6	150	210	320	215	340	80	230	350	F12	260	30	60	64
8	200	230	380	220	390	80	230	350	F12	310	35	70	74
10	250	250	445	265	485	125	260	400	F16	375	40	80	119
12	300	270	520	290	490	125	260	400	F16	380	45	90	165
14	350	290	585	310	540	125	370	400	F16	430	50	100	259
16	400	310	650	340	620	160	398	500	F25	485	60	120	325
18	450	330	710	390	645	200	418	600	F25	510	70	130	366
20	500	350	775	415	670	200	418	600	F30	515	70	130	444
24	600	390	915	500	740	200	418	600	F30	580	90	130	661
28	700	430	1035	580	900	263	510	700	F35	720	110	170	1096
32	800	470	1150	665	975	333	550	800	F40	775	120	200	1492
36	900	510	1270	690	1010	333	550	800	F40	810	130	200	2128
40	1000	550	1240	755	1090	374	590	900	F48	850	160	200	2502
48	1200	630	1465	950	1365	374	590	900	F48	1125	170	230	3514
56	1400	710	1710	1090	1475	453	635	1000	F60	1235	210	250	4484

☐ Overall / Connection Dimensions Flanged Class 600

in.	DN	L											kg
			D	H0	H	A	B	G	ISO 5211	H1	d0	h	
2	50	150	165	82.5	195	50	144	180	F07	135	16	35	26
2.5	65	170	190	95	210	50	144	180	F07	150	16	35	28
3	80	180	210	105	270	63	200	300	F10	200	18	50	35
4	100	190	275	137.5	285	63	200	300	F10	215	25	50	58
5	125	200	330	165	305	80	230	350	F12	225	30	70	84
6	150	210	355	200	410	125	260	400	F14	320	35	90	125
8	200	230	420	220	425	125	370	400	F16	325	45	90	153
10	250	250	510	265	505	125	370	400	F16	410	50	100	281
12	300	270	560	295	545	160	398	500	F25	420	60	120	328
14	350	290	605	335	570	200	418	600	F30	430	70	130	443
16	400	310	685	390	620	200	418	600	F30	460	80	130	512
18	450	330	745	425	685	263	510	700	F35	505	90	170	612
20	500	350	815	450	760	263	510	700	F35	580	100	170	925
24	600	390	940	550	850	333	550	800	F40	650	120	200	1535
28	700	430	1075	630	945	333	550	800	F40	745	140	200	2090
32	800	470	1195	740	1100	374	590	900	F48	860	170	220	2978
36	900	510	1315	800	1165	374	590	900	F48	925	180	230	3510
40	1000	550	1320	890	1290	374	590	900	F48	1050	200	230	4920

☐ Overall / Connection Dimensions Wafer PN10

DN	L											kg
		D2	H0	H	A	B	G	ISO 5211	H1	d0	h	
80	64	138	215	105	144	50	180	F07	155	18	40	15
100	64	158	225	117	144	50	180	F07	165	18	40	17
125	70	188	290	135	200	63	300	F10	220	22	50	24.5
150	76	212	315	165	200	63	300	F10	245	25	50	30
200	89	268	360	200	200	63	300	F10	290	25	50	45
250	114	320	395	235	230	80	350	F12	315	35	70	63
300	114	370	425	265	230	80	350	F12	345	35	70	82
350	127	430	480	300	260	125	400	F14	390	45	90	140
400	140	482	505	330	260	125	400	F16	405	50	100	170
450	152	532	540	360	260	125	400	F16	440	50	100	196
500	152	585	575	400	370	125	400	F16	475	50	100	280
600	154	685	685	454	398	160	500	F25	565	60	120	362
700	165	800	755	545	398	160	500	F25	685	60	120	430
800	190	905	825	575	418	200	600	F30	735	80	130	535
900	203	1005	960	655	418	200	700	F30	820	90	130	708
1000	216	1110	1015	725	418	200	700	F30	875	90	130	1090
1200	254	1330	1150	860	510	263	700	F35	990	110	170	1455
1400	279	1530	1345	995	550	333	800	F40	1165	130	200	1750

☐ Overall / Connection Dimensions Wafer PN16

DN	L											kg
		D2	H0	H	A	B	G	ISO 5211	H1	d0	h	
80	64	138	215	105	144	50	180	F07	155	16	40	15
100	64	158	225	117	144	50	180	F07	165	18	40	17
125	70	188	290	135	200	63	300	F10	220	22	50	24.5
150	76	212	315	165	200	63	300	F10	245	25	50	30
200	89	268	360	200	200	63	300	F10	290	25	50	45
250	114	320	395	235	230	80	350	F12	315	35	70	63
300	114	378	425	265	230	80	350	F12	345	35	70	82
350	127	438	480	300	260	125	400	F14	390	45	90	140
400	140	490	505	330	260	125	400	F16	405	50	100	170
450	152	550	540	360	260	125	400	F16	440	50	100	196
500	152	610	575	400	370	125	400	F16	475	50	100	280
600	154	725	685	454	398	160	500	F25	565	60	120	362
700	165	795	755	545	418	200	600	F30	615	80	130	430
800	190	900	825	575	418	200	600	F30	685	90	130	535
900	203	1000	960	655	510	263	700	F30	820	100	170	708
1000	216	1115	1015	725	510	263	700	F35	855	100	170	1090
1200	254	1330	1150	860	550	333	800	F35	990	120	200	1455
1400	279	1530	1345	995	550	333	800	F40	1165	140	200	1750

Overall / Connection Dimensions Wafer PN25

DN	L											kg
		D2	H0	H	A	B	G	ISO 5211	H1	d0	h	
80	64	138	215	105	144	50	180	F07	155	18	40	16
100	64	162	225	117	144	50	180	F07	165	18	40	18
125	70	188	290	135	200	63	300	F10	220	22	50	26
150	76	218	315	165	200	63	300	F10	245	25	50	32
200	89	278	360	200	230	80	350	F12	280	30	70	48
250	114	335	395	235	230	80	350	F12	315	35	70	68
300	114	395	460	265	260	125	400	F14	370	40	80	114
350	127	450	475	300	260	125	400	F14	385	45	90	150
400	140	505	520	330	370	125	400	F16	420	50	100	228
450	152	555	550	360	370	125	400	F16	450	50	100	273
500	152	615	625	400	398	160	500	F25	505	60	120	315
600	154	720	685	475	418	200	600	F25	565	70	130	408
700	165	820	790	545	418	200	600	F30	650	90	130	461
800	190	930	890	630	510	263	700	F35	730	100	170	726
900	203	1030	960	640	510	263	700	F35	800	110	170	752
1000	216	1140	1055	715	510	263	700	F35	895	110	170	1270
1200	254	1350	1185	840	550	333	800	F40	1025	140	200	1564
1400	279	1560	1345	995	590	374	900	F48	1185	160	230	2053

Overall / Connection Dimensions Wafer PN40

DN	L											kg
		D2	H0	H	A	B	G	ISO 5211	H1	d0	h	
80	64	138	230	105	144	50	180	F07	170	18	40	17
100	64	162	250	117	144	50	180	F07	190	18	40	20
125	70	188	295	135	200	63	300	F10	215	25	50	29
150	76	218	340	215	230	80	350	F12	250	30	60	44
200	89	285	390	220	230	80	350	F12	300	35	70	54
250	114	345	485	265	260	125	400	F16	385	40	80	103
300	114	310	490	290	260	125	400	F16	390	45	90	128
350	127	465	540	310	370	125	400	F16	440	50	100	233
400	140	535	620	340	398	160	500	F25	500	60	120	272
450	152	560	645	390	418	200	600	F25	525	70	130	307
500	152	615	670	415	418	200	600	F30	530	70	130	378
600	178	735	740	500	418	200	600	F30	600	90	130	465
700	229	840	900	580	510	263	700	F35	740	110	170	679
800	241	960	975	665	550	333	800	F40	795	120	200	817

Overall / Connection Dimensions Wafer PN63

DN	L											kg
		D2	H0	H	A	B	G	ISO 5211	H1	d0	h	
80	64	138	270	120	144	50	180	F07	210	18	40	20
100	64	162	285	135	200	63	300	F10	215	22	50	23
125	70	188	305	160	200	63	300	F10	235	25	50	34
150	78	218	340	215	230	80	350	F12	240	35	70	49
200	102	285	410	220	260	125	400	F14	320	40	80	62
250	117	345	505	265	370	125	400	F16	405	50	100	115
300	140	410	525	300	398	160	500	F25	410	55	120	207
350	155	465	540	310	398	160	500	F25	420	60	120	259
400	178	535	650	335	418	200	600	F30	510	70	130	326
500	216	615	730	415	510	263	700	F35	570	90	170	429
600	232	735	770	490	510	263	700	F35	610	110	170	684

Overall / Connection Dimensions Wafer PN100

DN	L											kg
		D2	H0	H	A	B	G	ISO 5211	H1	d0	h	
80	64	138	270	120	200	63	300	F10	200	18	50	23
100	64	162	285	135	200	63	300	F10	215	25	50	26
125	70	188	325	160	230	80	350	F12	245	30	70	38
150	78	218	410	215	260	125	400	F14	290	35	90	56
200	102	285	425	220	370	125	400	F16	325	45	90	96
250	117	345	505	265	370	125	400	F16	405	50	100	130
300	140	410	545	295	398	160	500	F25	425	60	120	227
350	155	465	570	335	418	200	600	F30	435	70	130	290
400	178	535	620	390	418	200	600	F30	480	80	130	367
500	216	615	760	450	510	263	700	F35	600	100	160	476
600	232	735	850	550	550	333	800	F40	670	120	190	659

Overall / Connection Dimensions Wafer Class 150

in.	DN	L												
			D2	H	H0	A	B	G	ISO 5211	H1	d0	h	Wafer	Lug
2	50	150	100	195	65	144	50	180	F07	135	16	35	5	6
2.5	65	170	120	210	75	144	50	180	F07	150	16	35	8	9
3	80	180	132	215	105	144	50	180	F07	155	18	40	10	11
4	100	190	170	235	120	144	50	180	F07	175	18	40	13	15
5	125	200	190	285	130	200	63	300	F10	215	22	50	23	25
6	150	210	215	300	170	200	63	300	F10	230	25	50	25	30
8	200	230	272	340	200	230	80	350	F12	260	30	70	33	38
10	250	250	332	380	240	230	80	350	F12	300	35	70	50	66
12	300	270	400	425	285	260	125	400	F14	335	40	80	67	90
14	350	290	440	505	320	260	125	400	F14	415	45	90	130	140
16	400	310	505	510	360	370	125	400	F16	415	50	100	140	170
18	450	330	540	565	385	370	125	400	F16	465	50	100	188	225
20	500	350	595	590	410	398	160	500	F25	470	60	120	270	287
24	600	390	710	685	454	418	200	600	F25	565	70	130	310	CF
28	700	430	765	755	545	418	200	600	F30	615	90	130	430	508
32	800	470	822	825	575	510	263	700	F35	665	100	170	535	632
36	900	510	1040	960	655	510	263	700	F35	800	110	170	708	836
40	1000	550	1150	1015	725	510	263	700	F35	855	110	170	1090	1286
48	1200	630	1375	1150	860	550	333	800	F40	970	140	200	1455	1717
56	1400	710	1595	1345	995	590	374	900	F48	1125	160	230	1750	2065

□ Overall / Connection Dimensions Wafer Class 300

in.	DN	L												
			D2	H	H0	A	B	G	ISO 5211	H1	d0	h	Wafer	Lug
2	50	43	105	195	65	144	50	180	F07	135	16	35	9	10
2.5	65	46	124	210	75	144	50	180	F07	150	16	35	11	15
3	80	48	142	215	105	144	50	180	F07	155	18	40	14	18
4	100	54	174	235	120	144	50	180	F07	175	18	40	17	22
5	125	59	208	285	130	200	63	300	F10	215	25	50	28	38
6	150	59	243	315	190	230	80	350	F12	235	30	60	30	42
8	200	73	300	370	220	230	80	350	F12	290	35	70	44	67
10	250	83	352	415	270	260	125	CF	F16	315	40	80	70	93
12	300	92	412	470	310	260	125	400	F16	370	45	90	115	160
14	350	117	475	525	330	370	125	400	F16	425	50	100	208	285
16	400	133	530	585	385	398	160	500	F25	465	60	120	305	272
18	450	149	585	620	410	418	200	600	F25	500	70	130	341	360
20	500	159	635	692	425	418	200	600	F30	550	70	130	432	460
24	600	181	765	815	480	418	200	600	F30	675	90	130	465	624
28	700	229	890	860	570	510	263	700	F35	700	110	170	679	812
32	800	241	995	965	660	550	333	800	F40	785	120	200	817	1010
36	900	241	1095	1025	725	550	333	800	F40	845	130	200	1133	1337
40	1000	300	1105	1075	770	590	374	900	F48	875	160	200	1744	2058
48	1200	350	1315	1295	920	590	374	900	F48	1075	170	230	2328	2747

□ Accessories

- Valve positioner
- Air-filter regulator
- Limit switch
- Pneumatic volume booster
- Solenoid valve
- Valve-position transmitter
- Pneumatic lock-up valve
- Handwheel

□ Ordering Information

Please specify:

- Valve name and model
- Nominal size, seat size and Cv
- Pressure class; connection / flange
- Body and trim materials
- Disc and flow characteristic
- Actuator and air supply
- Electric power / control signal
- Fail position on signal / air loss
- Medium, corrosivity and solids
- Medium density and temperature
- Normal / maximum / minimum flow
- Inlet / outlet pressure
- Accessories and hazardous-area rating
- Special cleaning / inspection requirements