



»» **KX SAFEFLEX**

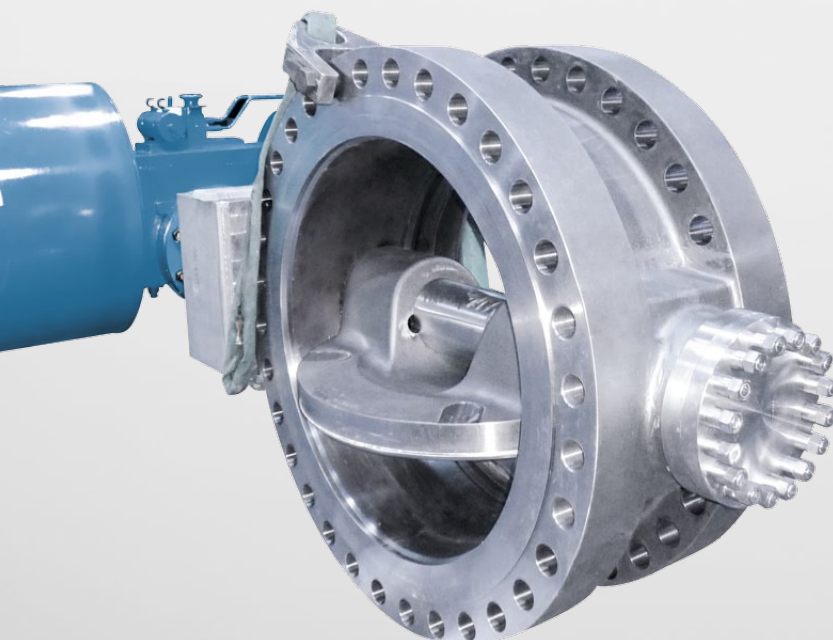
TRIPLE-OFFSET METAL SEATED BUTTERFLY VALVE

DN 100 - DN 2800 / 4" - 112"

PN 6 - PN 400

ANSI Class 150 - 2500

SHUT-OFF AND MODULATING SERVICE - SAFE AND ECONOMIC



+ HIGHER CV/KV VALUE

+ LOW BREAK AWAY TORQUE

+ SELF CENTERING



OHL Gutermuth Industrial Valves GmbH

>>KX SAFEFLEX

DESCRIPTION

3⁺
TRIPLE ECCENTRIC PLUS

ADAPTION ACC. TO ISO 5211

SPRING LOADED PACKING

SUPPORTING BEARING

SEALING GAS CONNECTION

DOUBLE PACKING

PURGE CONNECTION

STELLITE BEARINGS

SOLID METAL SEALING RING

ONE PIECE SHAFT
ANTI BLOW OUT DESIGN

REPLACEABLE SEAT

In addition it has the dual function of „shut-off and control“ since no dynamic torque occurs due to the design and engineering. Despite its triple eccentricity, KX Safeflex is rotationally symmetrical. In the event of repair work, there is thus no need for costly asymmetrical adaptation of the sealing ring to the body seat.

DESIGN PRINCIPLE
TRIPLE OFFSET PLUS +

KX Safeflex is a series of the latest generation from OHL Gutermuth. It combines properties, functions and versatile applications which are new in this combination and are particularly economical. For instance, KX Safeflex provides the highest standards in operating reliability and a long service life at high pressures or under dynamic loading as well as an excellent tight seal from „very hot“ to „very cold“.

DESIGN PRINCIPLE

TRIPLE OFFSET PLUS +

KX Safeflex provides a valve which is reliable, cost-effective and due to specification for critical applications and in various aspects is far superior to conventional solutions. OHL Gutermuth supplies this series of butterfly valves in many variations in terms of function, construction and material, fully adapted to the individual operational requirements. Throughout the sectors of power stations, paper and chemical industry, petrochemicals, gas industry, water and wastewater, oil supply, refineries, iron and steel industry, sugar industry, shipbuilding, plant construction and district heating supply, KX Safeflex provides superior engineering for shutoff and control – reliably and economically.

- + HIGHER CV/KV VALUE
- + ROUND SEAT AND SEALING RING
- + SELF CENTERING
- + EASY REPAIR BY SELF CENTERING DESIGN
- + MAINTENANCE FREE
- + NO FRICTION THEREFORE NO WEAR
- + LOW BREAK AWAY TORQUE

- + SEALING RING ADAPTED TO EACH MEDIUM IN TERMS OF TEMPERATURE AND CORROSION
- + PRESSURE RATES UP TO CLASS 2500
- + TEMPERATURE RATES $-196^{\circ}\dots +850^{\circ}\text{C}$

3+
TRIPLE ECCENTRIC PLUS

+ HIGHER CV/KV VALUE

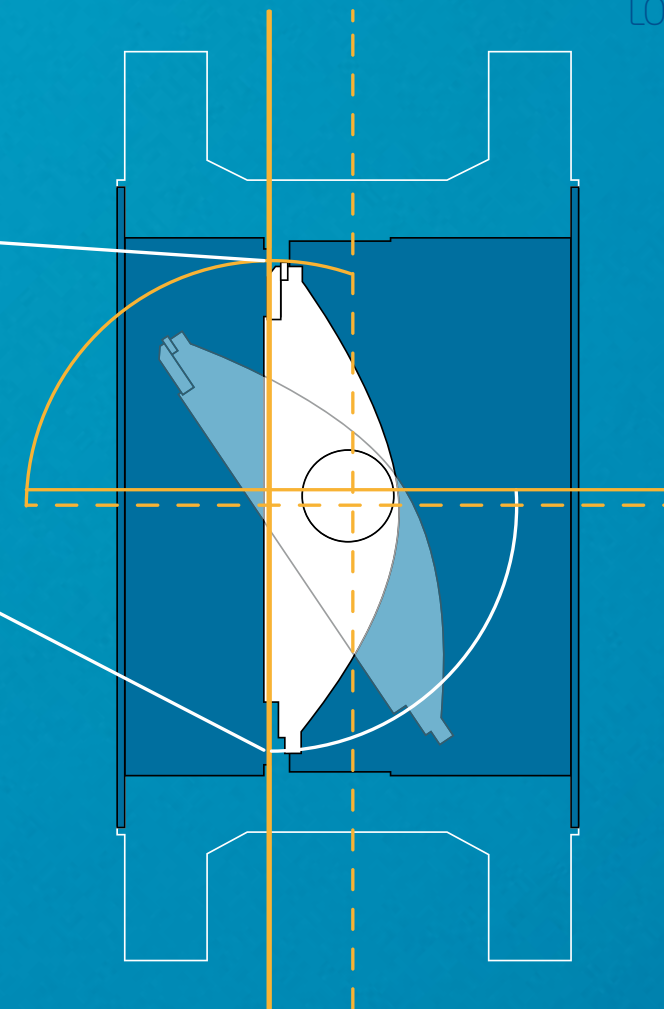
+ TEMPERATURE RATES
 $-196^{\circ}\dots +850^{\circ}\text{C}$

+ SELF CENTERING

In the KX Safeflex version with the fitting disc seat, there is no high torque and no frictional wear of the disc seal during opening and closing. In contrast, soft-seated valves require a high closing torque to squash the disc seal tight over a relatively long squeezing path in the housing seat. In contrast to soft-seated valves, KX Safeflex butterfly valves do not have dynamic torque during opening. Wide temperature and pressure variations are also compensated by the innovative geometry of the seat angle. This prevents the disc from sticking in the body. The sealing ring can easily be exchanged and is easy to maintain due to its rotational symmetry. A performance comparison of various basic construction series proves the superiority of the OHL Gutermuth KX Safeflex butterfly valve with triple eccentricity wherever there are particularly extreme conditions in operation and wherever there is a demand for high reliability and completely tight sealing.

+ ROUND SEAT AND SEALING RING

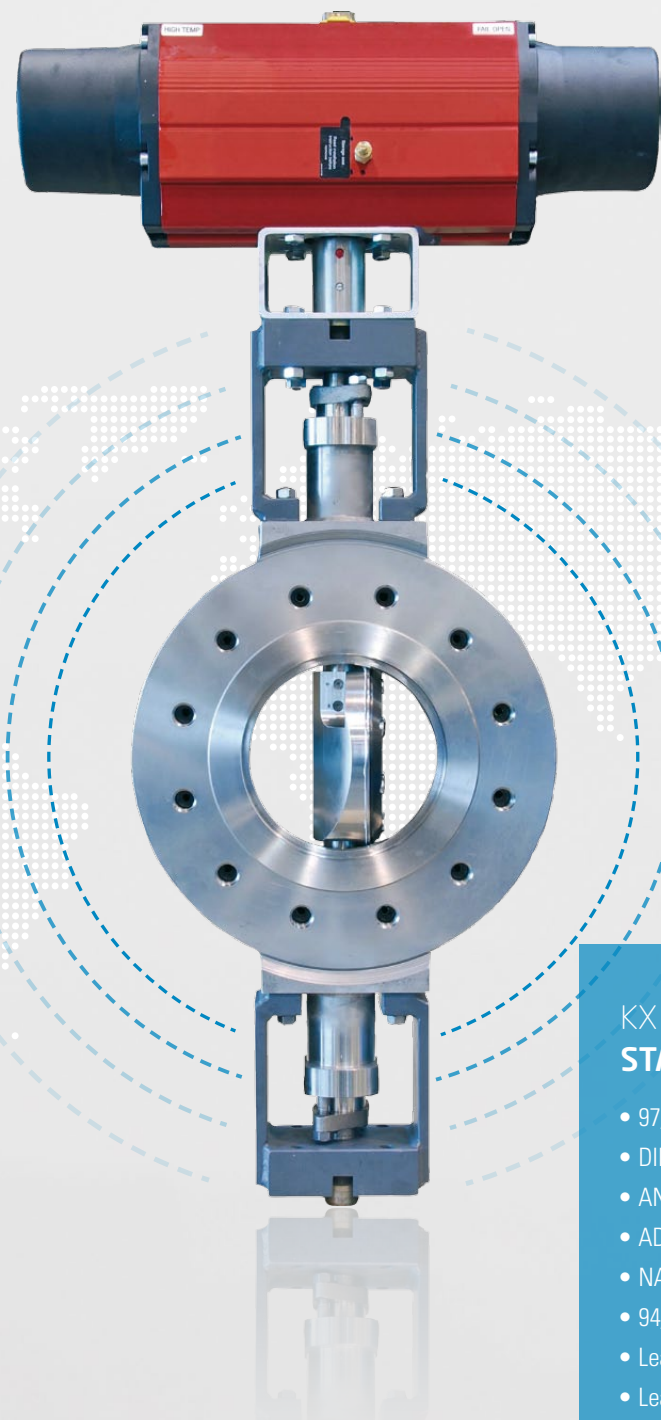
+ LOW BREAK AWAY TORQUE



+ EASY REPAIR BY SELF CENTERING DESIGN

>>KX SAFEFLEX

DESCRIPTION

KX SAFEFLEX
STANDARDS

- 97/23 EG Pressure directive
- DIN EN 12516 (DIN 3840)
- ANSI B 16.34
- AD 2000
- NACE MR 0175 , NACE MR 0103
- 94/9 EG ATEX
- Leak rate A in acc. DIN EN 12266
- Leak rate in acc. to FCI
- Fire Safe
- in acc. API 607, BS 6755

- + AVAILABLE UP TO SIZE DN 2800 BIGGER SIZES ON REQUEST
- + AVAILABLE UP TO CLASS 2500
- + ZERO LEAKAGE UNDER A WIDE RANGE OF TEMPERATURES AND PRESSURE RATES
- + VERY LOW BREAKAWAY TORQUES, 45% LOWER THAN LAMINATED SEALING
- + DEAD SPACE AREA MINIMIZED
- + HIGHER KV-/CV VALUE
- + MINOR DIRT ACCUMULATION ON DISC AND BEARING AREA
- + TIGHT IN BOTH DIRECTIONS
- + ISO 5211 TOP FLANGE CONNECTION FOR ACTUATION
- + METAL SEALINGS AVAILABLE IN STAINLESS STEEL, DUPLEX, HASTELOY, INCONEL AND TITANIUM
- + LAMINATED SEALING RING AVAILABLE FOR BASIC APPLICATIONS
- + HARDENED SEAT AVAILABLE IN MANY DIFFERENT MATERIALS
- + REPLACEABLE SEAT AVAILABLE AS OPTION
- + FULL INTENSIVE HEATING JACKET AS OPTION
- + PURGE AND SEAL CONNECTION AS OPTION
- + DIFFERENT SOLUTIONS FOR NOISE REDUCTION
- + FLOW CONTROL INSERTS TO CONTROL A LOW AND HIGH FLOW RATE

- + FRICTION FREE
- + TA-LUFT, LIFE LOADED PACKING
- + TEMPERATURE RANGE -196 °C UP TO +850 °C
- + PERFECT SUPPORT OF DISC BECAUSE OF UNIQUE SHAFT GUIDANCE
- + FLOATING SEAL DESIGN
- + SOLUTIONS AVAILABLE FOR STROKING TIMES BELOW 0,1 SECONDS
- + BEARING PROTECTION AS OPTION
- + FIRE SAFE ACC. TO API607 5TH EDITION AND SIL APPROVED
- + NO WEAR
- + BRAND NEW DISC DESIGN FOR OPTIMIZED CONTROL APPLICATIONS
- + PERFECT REGULATION PERFORMANCE, EQUAL PERCENTANGE CHARACTERISTIC BETWEEN 15° AND 80° OF OPENING

3⁺
TRIPLE ECCENTRIC PLUS

KX SAFEFLEX
VERSIONS OF THE SEAL

STAINLESS STEEL

OPTIONAL:
INCONEL | HASTELOY
TITANIUM | DUPLEX



GRAPHITE LAMELLA



PTFE O-RING

>>KX SAFEFLEX

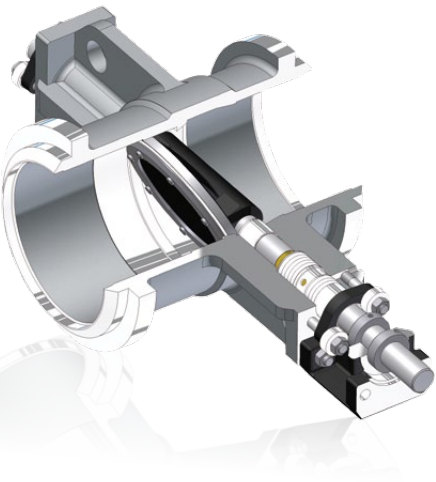
DESCRIPTION

DESIGN PRINCIPLE

TRIPLE OFFSET PLUS +

Butterfly valves of the Triple Eccentric+ series are planned and produced in accordance with user-specific requirements. In standard length dimensions to DIN or to individual requirements. Leakage in accordance with ANSI and DIN, in different materials, starting from the nominal bore DN 100 with all common types of valve actuator systems. Triple Eccentric+ permits connection in accordance with all national and international standards. A top quality series of butterfly valves from OHL Gutermuth which meets even the highest requirements.

Special solutions



SPECIAL BUTTERFLY VALVES
FOR HIGH-PRESSURE



SPECIAL BUTTERFLY VALVES
FOR HIGH TEMPERATURE



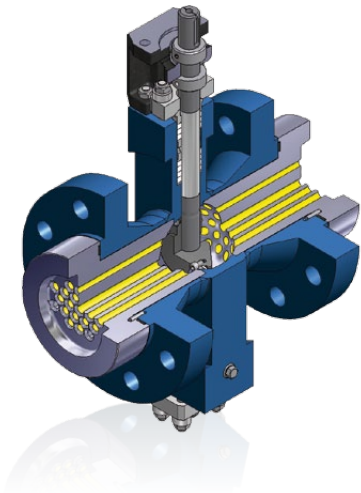
SPECIAL BUTTERFLY VALVES
FOR LOW TEMPERATURE



VACUUM AND LOW
PRESSURE SOLUTION



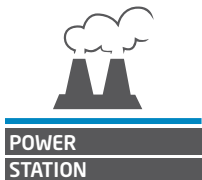
SPECIAL VALVES
FROM SMALL TO BIG SIZES



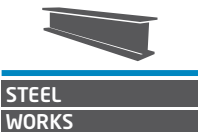
SPECIAL BUTTERFLY VALVES
FOR ABRASIVE MEDIA

KX SAFEFLEX

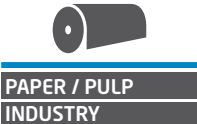
APPLICATION AREA



POWER
STATION



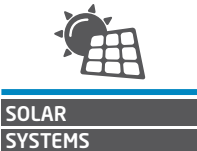
STEEL
WORKS



PAPER / PULP
INDUSTRY



SUGAR
MILLS



SOLAR
SYSTEMS



DESULPHURIZATION
PLANTS



CHEMICAL
INDUSTRY



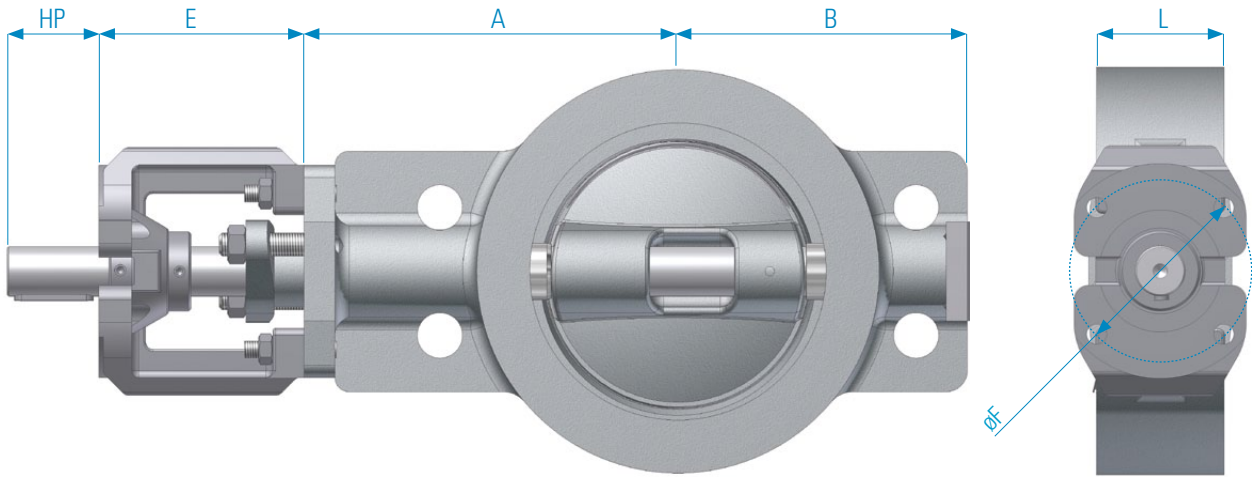
PETROCHEMICAL
INDUSTRY



DISTRICT
HEATING

>>SERIES KX SAFEFLEX

TECHNICAL DATA

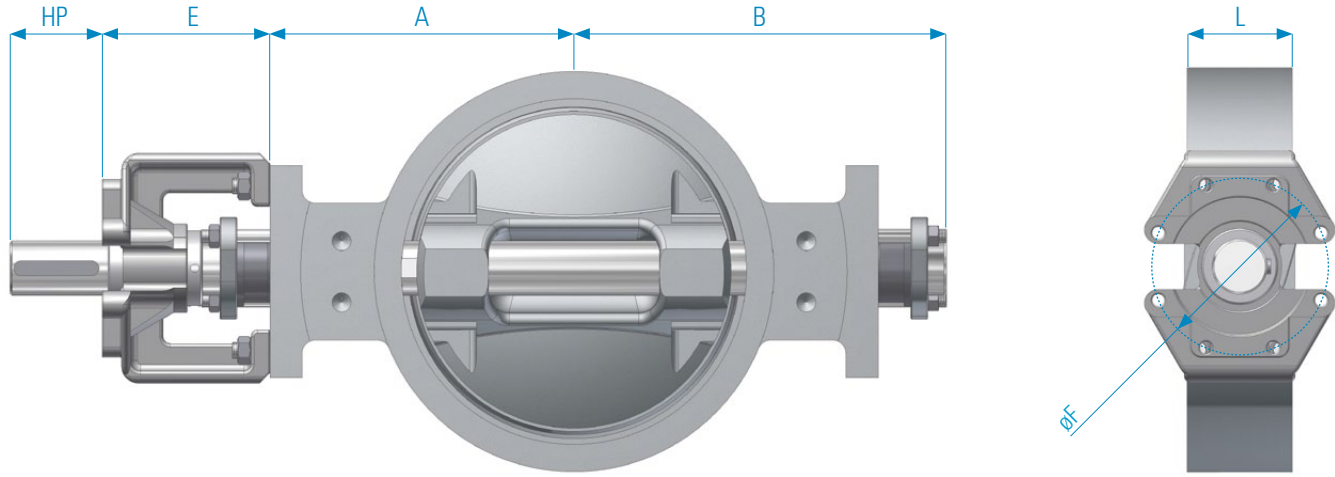


Model: KXC 10 Tripple eccentric plus PN 10 / CLASS 125

DIMENSIONS								
DN		Approx. weight kg	øF	HP	L	A	B	E
mm	inch							
100	4	16	F10	45	64	155	135	100
125	5	21	F10	45	70	165	145	100
150	6	25	F12	55	76	180	160	120
200	8	30	F10	45	89	235	160	100
250	10	46	F10	45	114	260	210	100
300	12	62	F12	55	114	285	250	120
350	14	85	F12	55	127	310	290	120
400	16	113	F12/F14	65	140	355	320	120
450	18	149	F14	75	152	380	340	155
500	20	176	F14	75	152	405	390	155
600	24	236	F14/F16	85	178	455	450	155
700	28	390	F16	95	229	505	500	180
800	32	499	F16/F25	95	241	575	570	180
900	36	608	F16/F25	95	241	625	620	180
1000	40	844	F25	135	300	695	690	245

Remark: The above mentioned data are examples only and may differ for specific applications.

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Model: KXC 25 Tripple eccentric plus PN 25 / CLASS 150

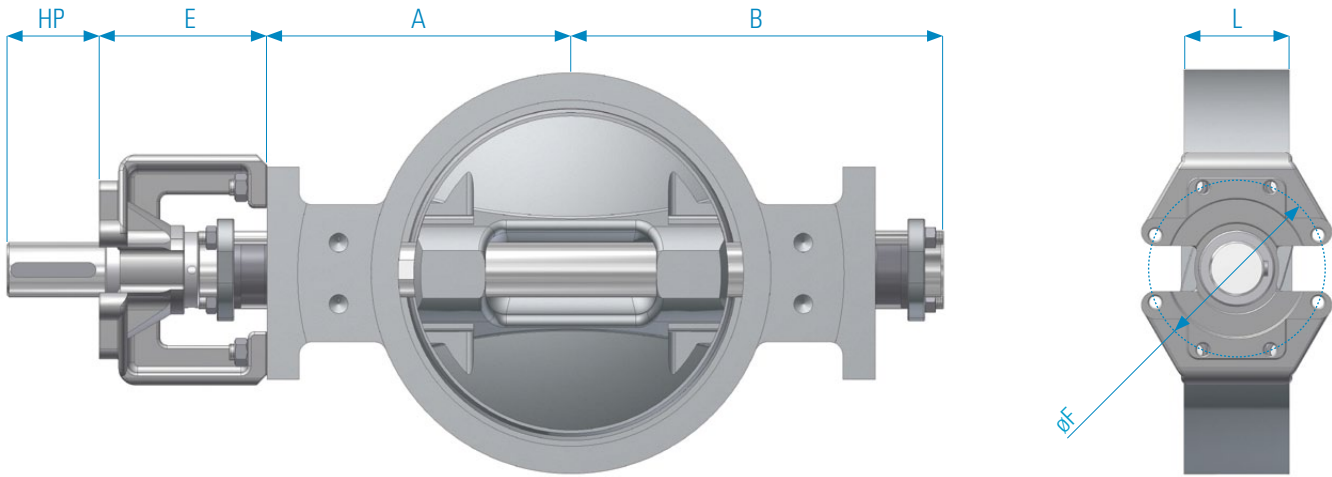
DIMENSIONS								
DN		Approx. weight kg	øF	HP	L	A	B	E
mm	inch							
100	4	16	F10	45	64	155	195	100
125	5	21	F10	45	70	165	205	100
150	6	28	F12	55	76	180	230	120
200	8	45	F12	55	89	235	285	120
250	10	72	F12	65	114	260	310	120
300	12	85	F14	75	114	285	350	155
350	14	125	F14	85	127	310	375	155
400	16	165	F14	85	140	355	420	155
450	18	195	F16	95	152	380	445	180
500	20	269	F16	95	152	445	520	180
600	24	378	F16/F25	95	178	495	570	180
700	28	550	F25	135	229	575	675	245
800	32	739	F25/F30	135	241	635	735	245
900	36	935	F30	160	241	675	785	350
1000	40	1291	F35	200	300	725	835	350

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>>SERIES KX SAFEFLEX

TECHNICAL DATA

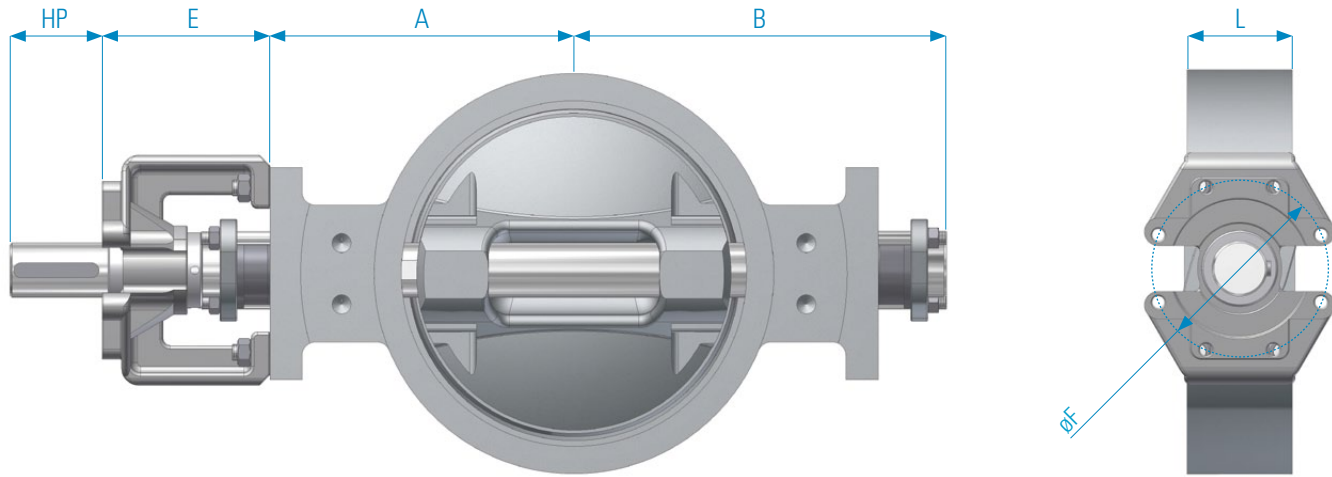


Model: KXC 50 Tripple eccentric plus PN 40 / CLASS 300

DIMENSIONS								
DN		Approx. weight kg	øF	HP	L	A	B	E
mm	inch							
100	4	16	F10	45	64	155	195	100
125	5	21	F10	45	70	170	205	100
150	6	30	F12	55	76	180	230	120
200	8	51	F12	65	89	235	285	120
250	10	86	F14	85	114	260	325	155
300	12	119	F16	95	114	310	385	180
350	14	170	F16	95	127	340	415	180
400	16	228	F16	95	140	375	450	180
450	18	240	F16	95	152	400	475	180
500	20	295	F25	135	152	425	525	245
600	24	525	F30	160	Dimensions on request			350
700	28	715	F30	160				350
800	32	935	F35	200				350
900	36	1260	F35	200				350
1000	40	1550	F40	200				350

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Model: KXC 100 Tripple eccentric plus PN 100 / CLASS 600

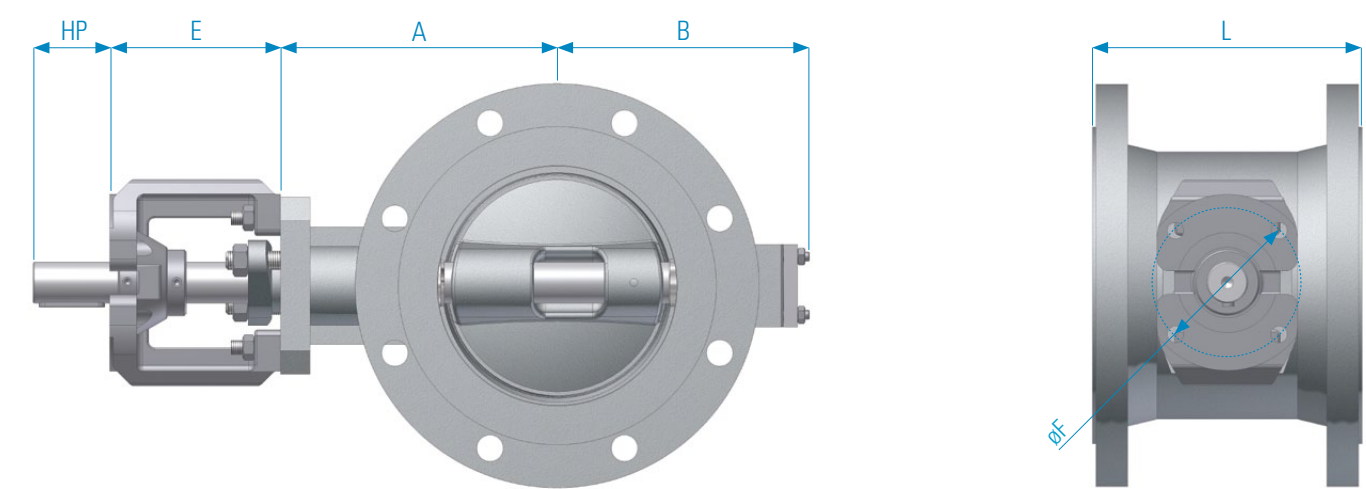
DIMENSIONS								
DN		Approx. weight kg	øF	HP	L	A	B	E
mm	inch							
100	4	30	F10	45	64	185	225	100
125	5	65	F12	55	70	215	265	120
150	6	72	F12	65	76	240	290	120
200	8	102	F14	85	102	265	330	155
250	10	187	F16	95	114	300	375	180
300	12	254	F16	95	160	385	460	180
350	14	329	F25	135	178	400	500	245
400	16	520	F25	135	178	425	525	245
450	18	635	F30	160	200	450	550	350
500	20	804	F30	160	210	475	585	350
600	24	1243	F35	200	Dimensions on request			350
700	28	1385	F35	200				350
800	32	1490	F40	200				350
900	36	1680	-	-				-
1000	40	1850	-	-				-

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>>SERIES KX SAFEFLEX

TECHNICAL DATA



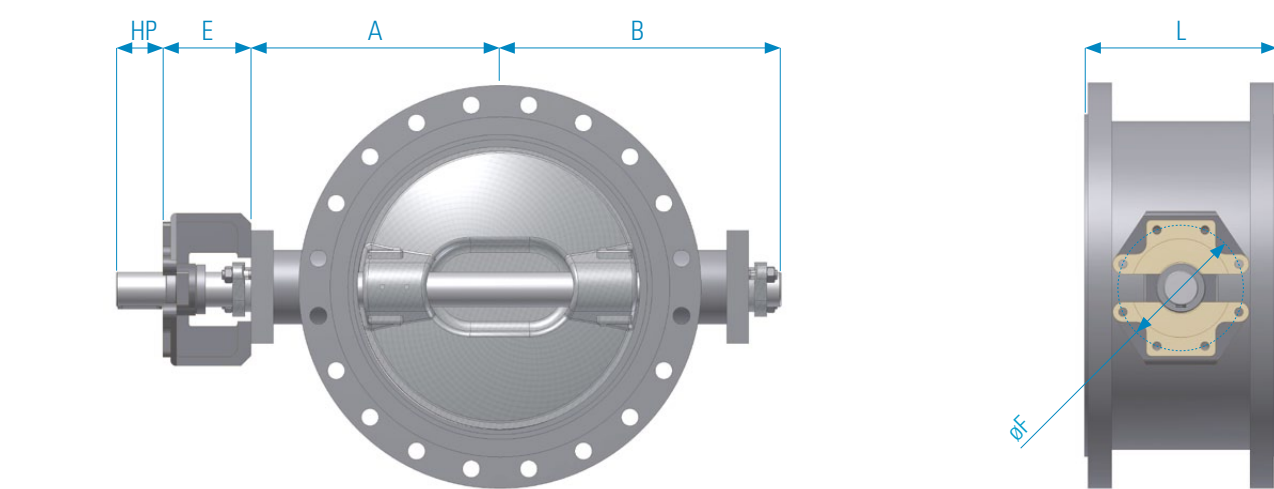
Model: KXL 10 Tripple eccentric plus

PN 10 / CLASS 125

DIMENSIONS								
DN		Approx. weight kg	øF	HP	L	A	B	E
mm	inch							
100	4	30	F10	45	190	155	135	100
125	5	39	F10	45	200	165	145	100
150	6	52	F12	55	210	180	160	120
200	8	66	F10	45	230	235	160	100
250	10	94	F10	45	250	260	210	100
300	12	135	F12	55	270	285	250	120
350	14	182	F12	55	290	310	290	120
400	16	235	F12/F14	65	310	355	320	120
450	18	287	F14	75	330	380	340	155
500	20	345	F14	75	350	405	390	155
600	24	466	F14/F16	85	390	455	450	155
700	28	538	F16	95	430	505	500	180
800	32	683	F16/F25	95	470	575	570	180
900	36	866	F16/F25	95	510	625	620	180
1000	40	1168	F25	135	550	695	690	245

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Model: KXL 25 Tripple eccentric plus

PN 25 / CLASS 150

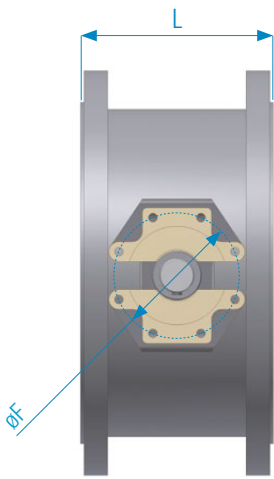
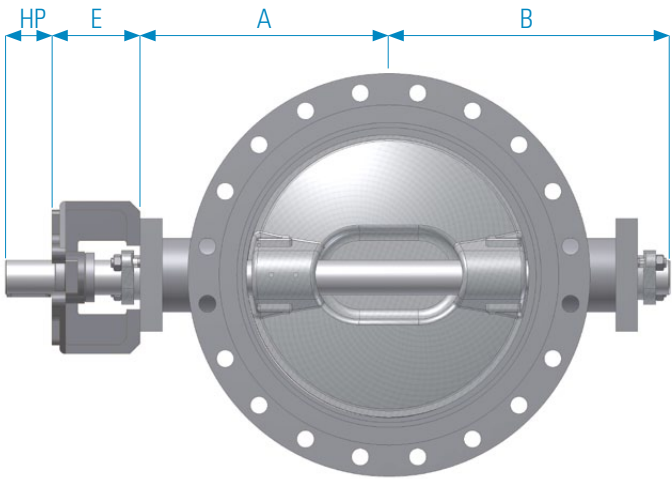
DIMENSIONS								
DN		Approx. weight kg	øF	HP	L	A	B	E
mm	inch							
100	4	30	F10	45	190	155	195	100
125	5	39	F10	45	200	165	205	100
150	6	52	F12	55	210	180	230	120
200	8	75	F12	55	230	235	285	120
250	10	110	F12	65	250	260	310	120
300	12	156	F14	75	270	285	350	155
350	14	228	F14	85	290	310	375	155
400	16	295	F14	85	310	355	420	155
450	18	325	F16	95	330	380	445	180
500	20	438	F16	95	350	445	520	180
600	24	608	F16/F25	95	390	495	570	180
700	28	698	F25	135	430	575	675	245
800	32	923	F25/F30	135	470	635	735	245
900	36	1193	F30	160	510	675	785	350
1000	40	1615	F35	200	550	725	835	350

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>>SERIES KX SAFEFLEX

TECHNICAL DATA

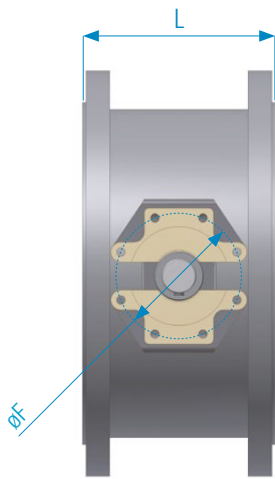
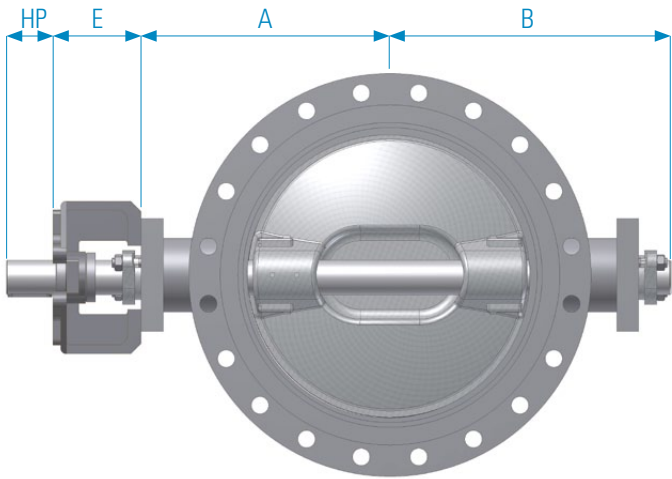


Model: KXL 50 Tripple eccentric plusPN 40 / CLASS 300

DIMENSIONS								
DN		Approx. weight kg	øF	HP	L	A	B	E
mm	inch							
100	4	30	F10	45	190	155	195	100
125	5	39	F10	45	200	170	205	100
150	6	52	F12	55	210	180	230	120
200	8	87	F12	65	240	235	285	120
250	10	134	F14	85	250	260	325	155
300	12	192	F16	95	270	310	385	180
350	14	267	F16	95	290	340	415	180
400	16	350	F16	95	310	375	450	180
450	18	377	F16	95	330	400	475	180
500	20	464	F25	135	500	425	525	245
600	24	957	F30	160	Dimensions on request			350
700	28	1335	F30	160				350
800	32	1957	F35	200				350
900	36	2590	F35	200				350
1000	40	2710	F40	200				350

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Model: KXL 100 Tripple eccentric plusPN 100 / CLASS 600

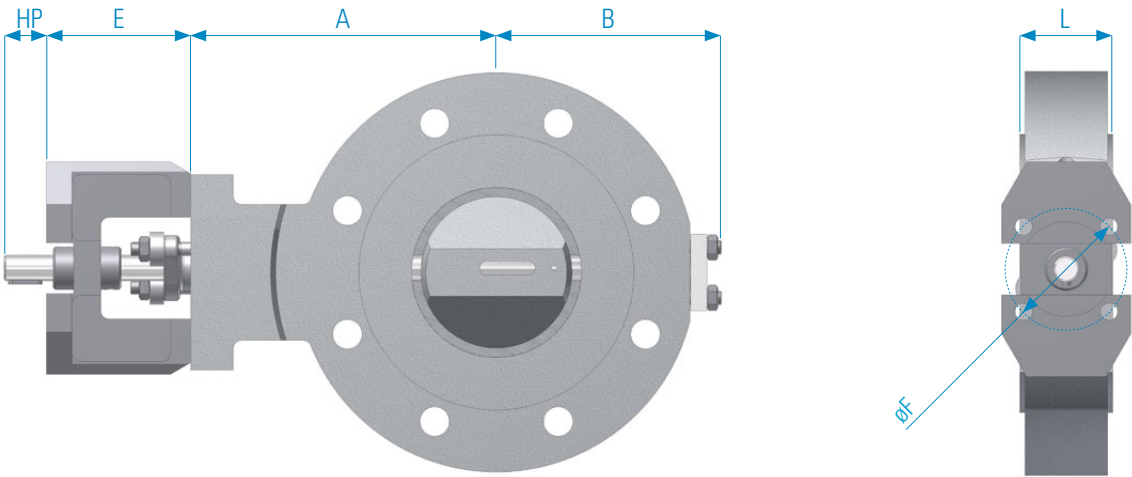
DIMENSIONS								
DN		Approx. weight kg	øF	HP	L	A	B	E
mm	inch							
100	4	69	F10	45	290	185	225	100
125	5	110	F12	55	300	215	265	120
150	6	135	F12	65	300	240	290	120
200	8	165	F14	85	300	265	330	155
250	10	275	F16	95	450	300	375	180
300	12	380	F16	95	500	385	460	180
350	14	398	F25	135	550	400	500	245
400	16	510	F25	135	600	425	525	245
450	18	680	F30	160	650	450	550	350
500	20	855	F30	160	700	475	585	350
600	24	1285	F35	200	Dimensions on request			350
700	28	1650	F35	200				350
800	32	2320	F40	200				350
900	36	2810	-	-				-
1000	40	3120	-	-				-

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>>SERIES KX SAFEFLEX

TECHNICAL DATA



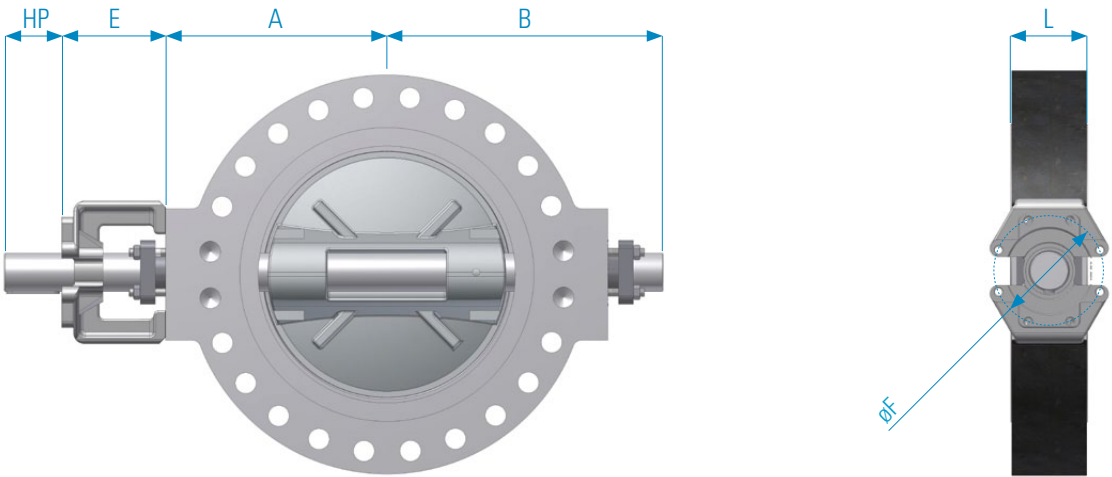
Model: KXF 10 Tripple eccentric plus

PN 10 / CLASS 125

DIMENSIONS								
DN		Approx. weight kg	øF	HP	L	A	B	E
mm	inch							
100	4	21	F10	45	64	155	130	100
125	5	28	F10	45	70	165	155	100
150	6	33	F12	55	76	180	160	120
200	8	39	F10	45	89	235	160	100
250	10	60	F10	45	114	260	210	100
300	12	81	F12	55	114	285	250	120
350	14	111	F12	55	127	310	290	120
400	16	147	F12/F14	65	140	355	320	120
450	18	194	F14	75	152	380	340	155
500	20	229	F14	75	152	405	390	155
600	24	307	F14/F16	85	178	455	450	155
700	28	507	F16	95	229	505	500	180
800	32	649	F16/F25	95	241	575	570	180
900	36	791	F16/F25	95	241	625	620	180
1000	40	1098	F25	135	300	695	690	245

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Model: KXF 25 Tripple eccentric plus

PN 25 / CLASS 150

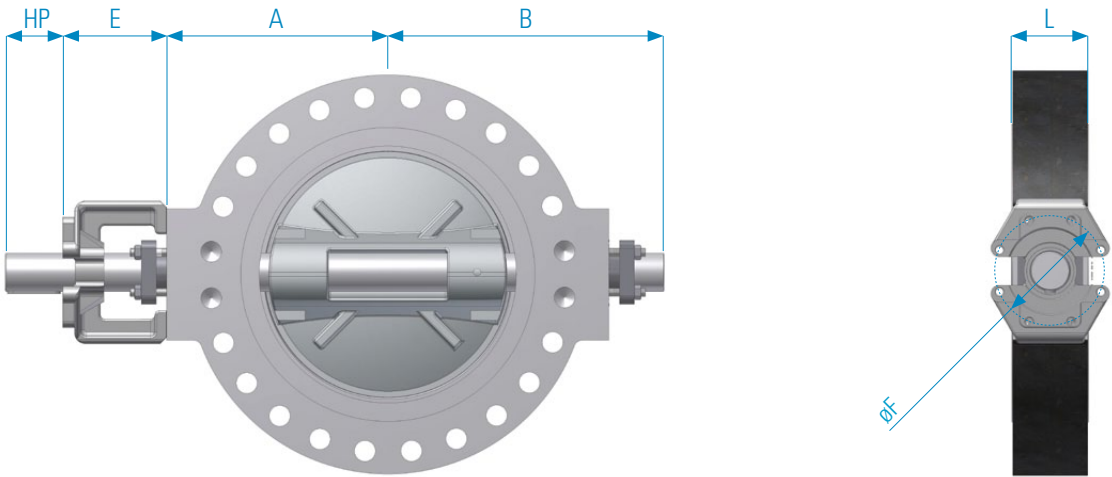
DIMENSIONS								
DN		Approx. weight kg	øF	HP	L	A	B	E
mm	inch							
100	4	21	F10	45	64	155	195	100
125	5	28	F10	45	70	175	215	100
150	6	37	F12	55	76	210	270	120
200	8	59	F12	55	89	235	285	120
250	10	94	F12	65	114	260	310	120
300	12	111	F14	75	114	285	350	155
350	14	163	F14	85	127	370	435	155
400	16	215	F14	85	140	375	440	155
450	18	254	F16	95	152	400	465	180
500	20	350	F16	95	152	445	520	180
600	24	492	F16/F25	95	178	495	570	180
700	28	715	F25	135	229	575	675	245
800	32	961	F25/F30	135	241	635	735	245
900	36	1216	F30	160	241	675	785	350
1000	40	1679	F35	200	300	725	835	350

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>>SERIES KX SAFEFLEX

TECHNICAL DATA

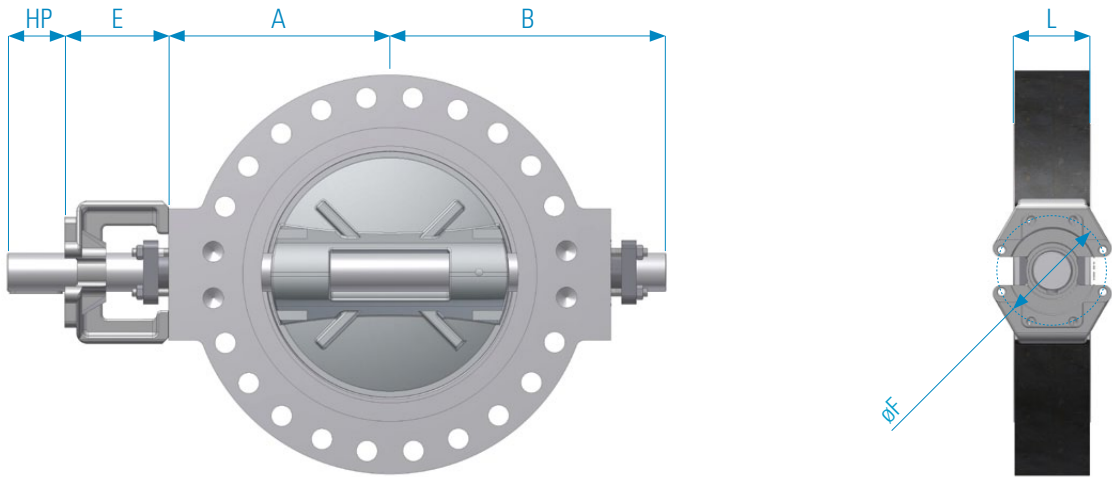


Model: KXF 50 Tripple eccentric plus PN 40/ CLASS 300

DIMENSIONS								
DN		Approx. weight kg	øF	HP	L	A	B	E
mm	inch							
100	4	21	F10	45	64	185	225	100
125	5	28	F10	45	70	195	235	100
150	6	39	F12	55	76	205	245	120
200	8	67	F12	65	89	235	285	120
250	10	112	F14	85	114	260	325	155
300	12	155	F16	95	114	335	410	180
350	14	221	F16	95	127	370	445	180
400	16	297	F16	95	140	375	450	180
450	18	312	F16	95	152	400	475	180
500	20	384	F25	135	152	445	545	245
600	24	683	F30	160	Dimensions on request			350
700	28	930	F30	160				350
800	32	1216	F30	200				350
900	36	1638	F35	200				350
1000	40	2015	F40	200				350

Remark: The above mentioned data are examples only and may differ for specific applications.

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Model: KXF 100 Tripple eccentric plus PN 100 / CLASS 600

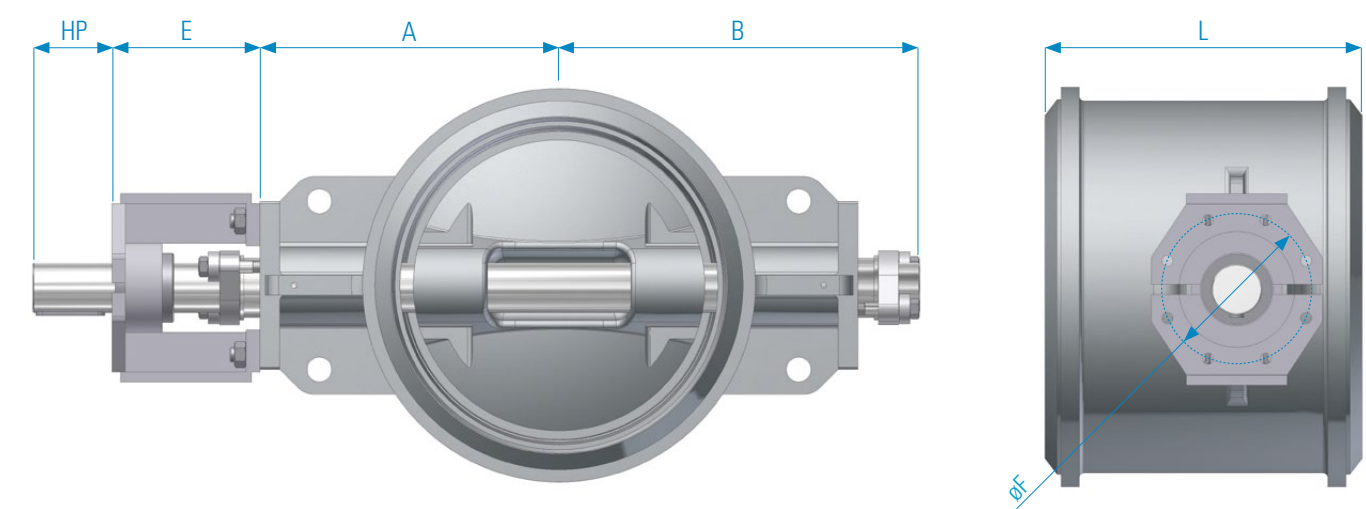
DIMENSIONS								
DN		Approx. weight kg	øF	HP	L	A	B	E
mm	inch							
100	4	39	F10,	45	64	185	225	100
125	5	85	F12	55	70	205	255	120
150	6	94	F12	65	76	240	290	120
200	8	133	F14	85	102	265	330	155
250	10	244	F16	95	140	300	375	180
300	12	331	F16	95	160	335	410	180
350	14	428	F25	135	178	400	500	245
400	16	676	F25	135	178	425	525	245
450	18	826	F30	160	200	450	550	350
500	20	1046	F30	160	210	475	585	350
600	24	1616	F35	200	260	595	695	350
700	28	1801	Dimensions on request					
800	32	1937						
900	36	2184						
1000	40	2405						

Remark: The above mentioned data are examples only and may differ for specific applications.

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>>SERIES KX SAFEFLEX

TECHNICAL DATA

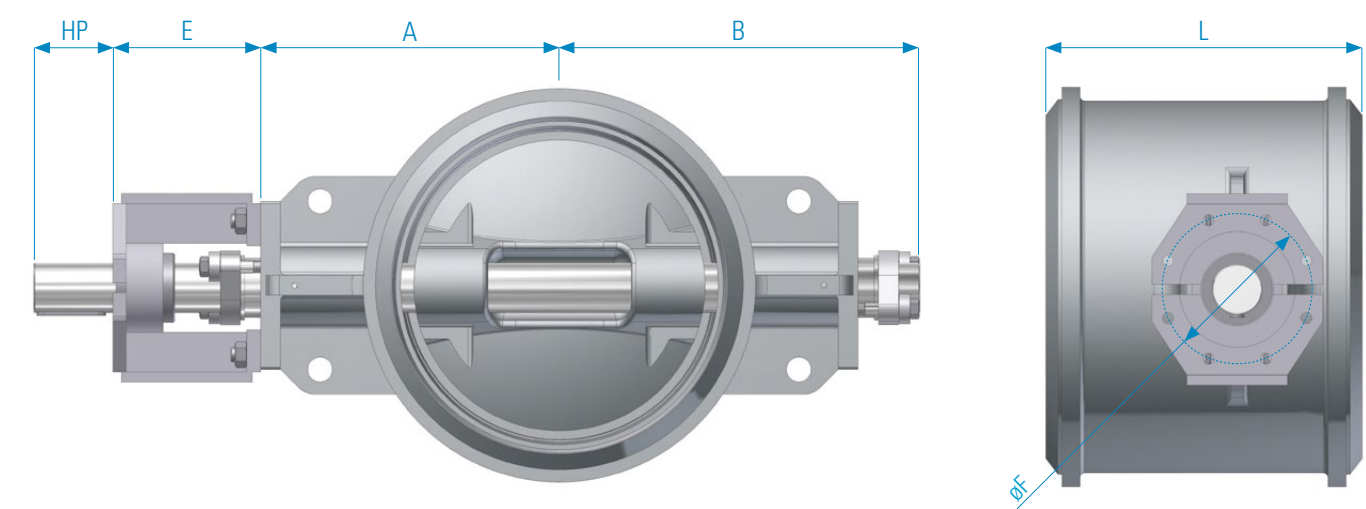


Model: KXS 25 Tripple eccentric plus PN 25 / CLASS 150

DIMENSIONS								
DN		Approx. weight kg	øF	HP	L	A	B	E
mm	inch							
100	4	-	F10	45	190	155	195	100
125	5	-	F10	45	200	165	205	100
150	6	-	F12	55	210	210	250	120
200	8	-	F12	55	430	265	315	120
250	10	-	F12	65	450	330	390	120
300	12	-	F14	75	470	355	420	155
350	14	-	F14	85	490	400	465	155
400	16	-	F14	85	510	425	490	155
450	18	-	F16	95	550	450	525	180
500	20	-	F16	95	550	475	550	180
600	24	-	F16/F25	95	660	525	600	180
700	28	-	F25	135	630	605	705	245
800	32	-	F25/F30	135	670	655	755	245
900	36	-	F30	160	710	675	775	350
1000	40	-	F35	200	750	725	835	350

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Model: KXS 50 Tripple eccentric plus PN 40 / CLASS 300

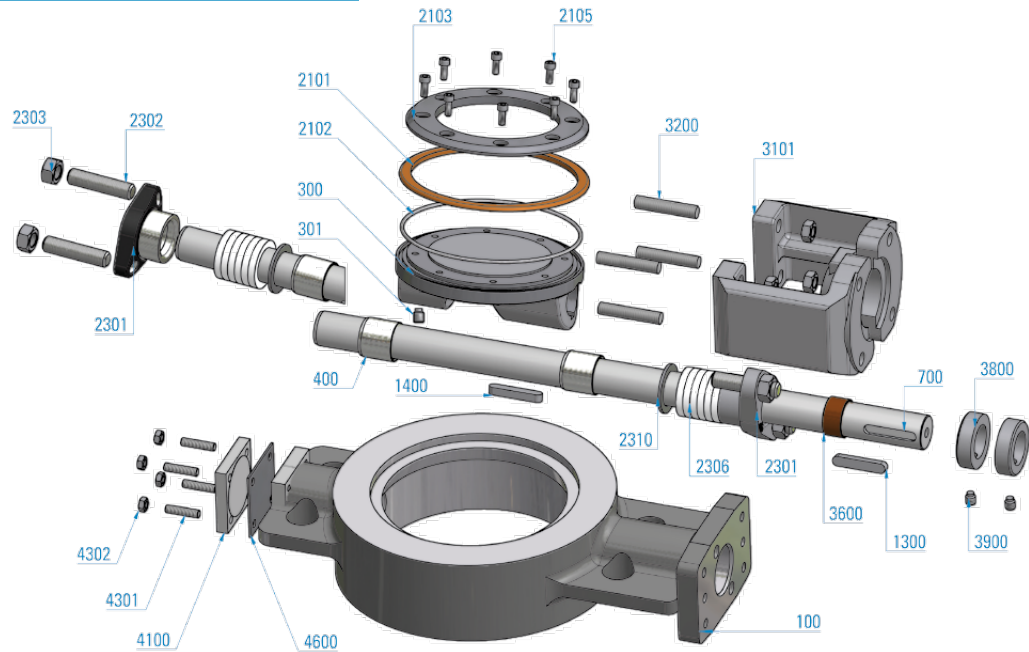
DIMENSIONS								
DN		Approx. weight kg	øF	HP	L	A	B	E
mm	inch							
100	4	-	F10	45	190	155	225	100
125	5	-	F10	45	200	165	235	100
150	6	-	F12	55	210	210	245	120
200	8	-	F12	65	430	265	285	120
250	10	-	F14	85	450	330	325	155
300	12	-	F16	95	470	355	410	180
350	14	-	F16	95	490	400	445	180
400	16	-	F16	95	510	425	450	180
450	18	-	F16	95	550	450	475	180
500	20	-	F25	135	550	475	545	245
600	24	-	F30	160	660	525	600	350
700	28	-	F30	160	630	605	705	350
800	32	-	F30	200	670	655	755	350
900	36	-	F35	200	710	675	775	350
1000	40	-	F40	200	750	725	835	350

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>>SERIES KX SAFEFLEX

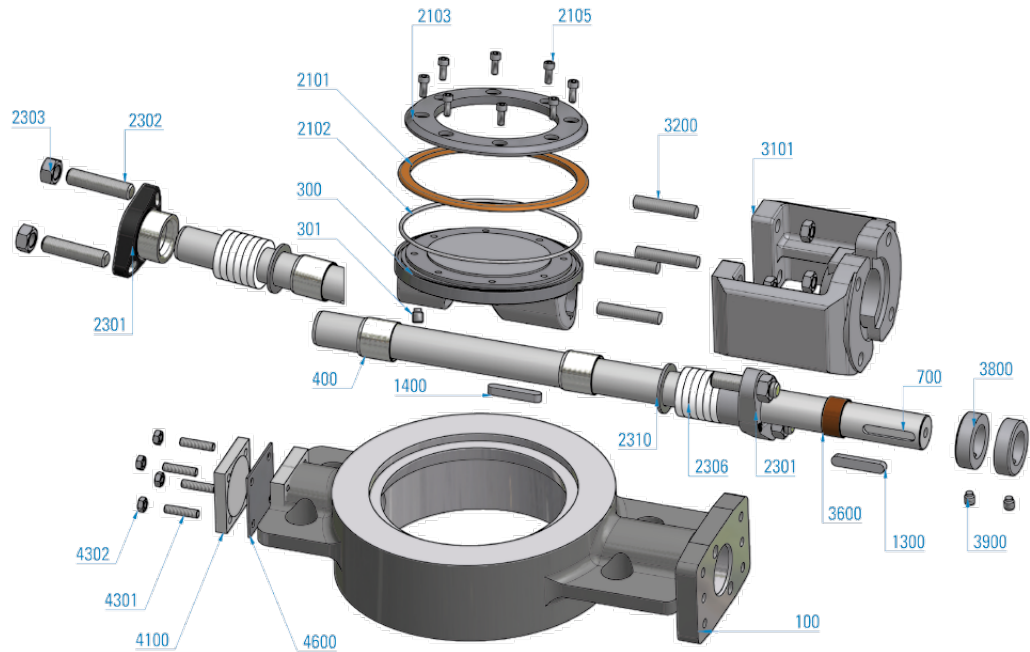
MATERIALS DIN & ANSI



Bill of material acc. to EN/DIN

POS.	PART	STAINLESS STEEL DESIGN	CARBON STEEL DESIGN
100	Body	1.4404/1.4408	1.0425/1.0619
300	Disc	1.4408	1.0619
301	Stud Bolt	A2-70	A2-70
400	Bearing	Stellite/1.4571 nitr.	Stellite/1.4571 nitr.
700	Drive Shaft	1.4542	1.4542
1300	Feather key	C45	C45K
1400	Feather Key	1.4542	C45K
Opt.	Sealing Ring	Stainless Steel Laminated	Stainless Steel Laminated
2101	Sealing Ring	1.4542	1.4542
2102	C-Ring	Inconel X750	Inconel X750
2103	Clamping Ring	1.4571 nitr.	1.4571 nitr.
2105	Socket head cap screw	A2-70	A2-70
2301	Packing gland	1.4571/1.4581	1.4571/1.4581
2302	Stud bolt	A2-70	A2-70
2303	Hexagon nut	A2-70	A2-70
2306	Packing	Graphite/PTFE	Graphite/PTFE
2310	Backup ring	1.4571	1.4571
3101	Bonnet	1.4571/1.4581	0.7040
3200	Stud bolt	A2-70	A2-70
3300	Hexagon nut	A2-70	A2-70
3600	Bushing	1.4571/nitr. / PTFE/Bronze	PTFE/Bronze
3800	Adjusting ring	St Tenifer/nitr.	St Tenifer/nitr.
3900	Threaded pin	A2-70	A2-70

Available on Request: Material for Temperature rates -196°C to 850°C - Material abrasion and corrosion resistents - Material free of Molybdenum



Bill of material acc. to ASTM

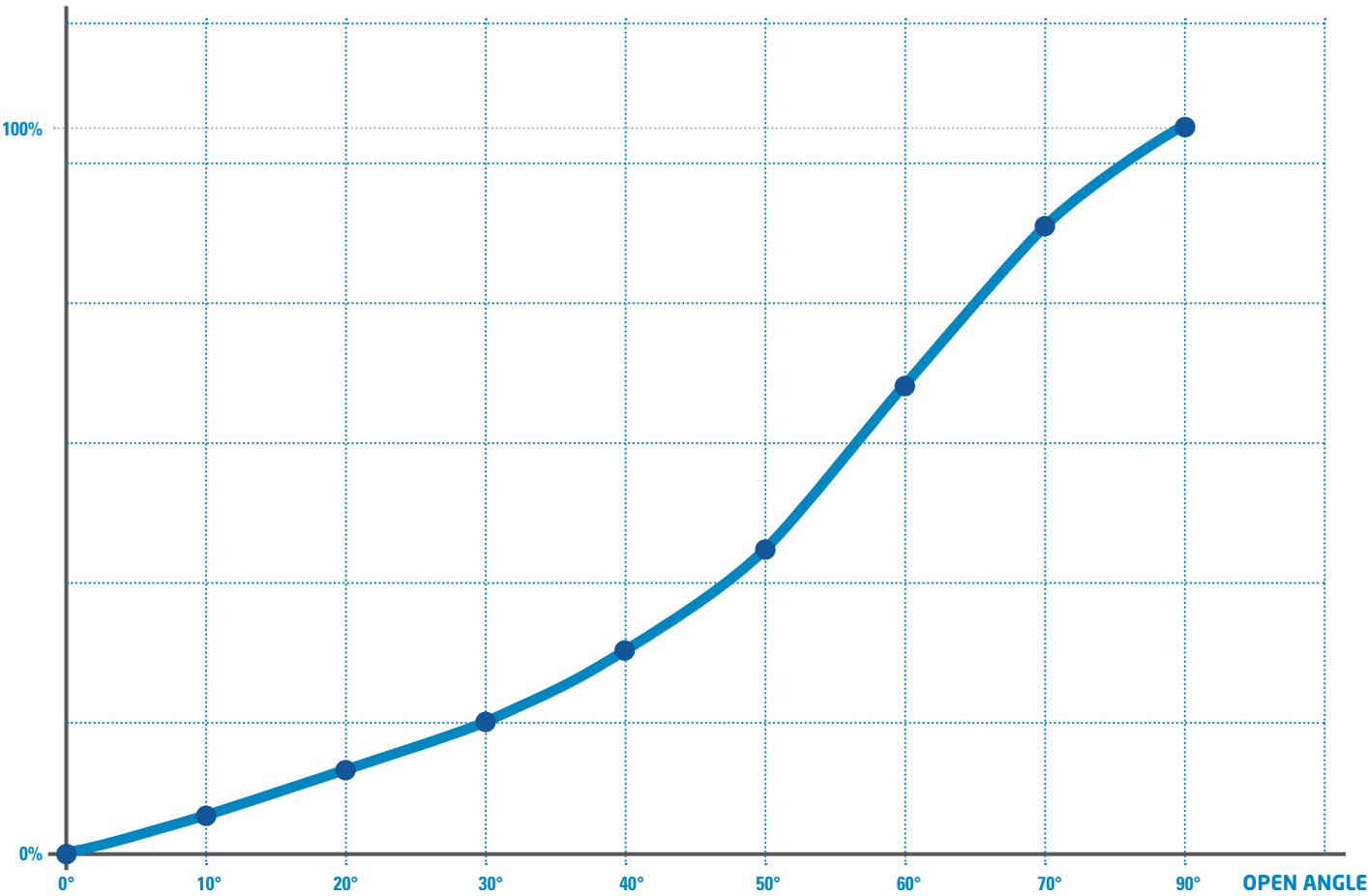
POS.	PART	STAINLESS STEEL DESIGN	CARBON STEEL DESIGN
100	Body	ASTM A351 CF8M	ASTM A216 WCB/A516 Gr. 60
300	Disc	ASTM A351 CF8M	ASTM A216 WCB
301	Stud Bolt	ASTM A193 Gr.B8	ASTM A193 Gr.B8
400	Bearing	Stellite/ AISI 316 Ti nitr.	Stellite/ AISI 316 Ti nitr.
700	Drive Shaft	ASTM A564 Gr. 630/17-4PH	ASTM A564 Gr. 630/17-4PH
1300	Feather key	C45K	C45K
1400	Feather Key	ASTM A564 Type 630/17-4PH	C45K
Opt.	Sealing Ring	Stainless Steel Laminated	Stainless Steel Laminated
2101	Sealing Ring	ASTM A564 Type 630/17-4PH	ASTM A564 Type 630/17-4PH
2102	C-Ring	Inconel X750	Inconel X750
2103	Clamping Ring	AISI 316 Ti nitr.	AISI 316 Ti nitr.
2105	Socket head cap screw	ASTM A193 Gr.B8	ASTM A193 Gr.B8
2301	Packing gland	AISI 316 Ti	ASTM A516 Gr. 60
2302	Stud bolt	ASTM A193 Gr.B8	ASTM A193 Gr.B8
2303	Hexagon nut	ASTM A193 Gr.B8	ASTM A193 Gr.B8
2306	Packing	Graphite/PTFE	Graphite/PTFE
2310	Backup ring	AISI 316 Ti	AISI 316 Ti
3101	Bonnet	ASTM A351 CF8M/AISI 316 Ti	AISI 316 Ti
3200	Stud bolt	ASTM A193 Gr.B8	ASTM A193 Gr.B8
3300	Hexagon nut	ASTM A193 Gr.B8	ASTM A193 Gr.B8
3600	Bushing	AISI 316 Ti nitr./ PTFE/Bronze	PTFE/Bronze
3800	Adjusting ring	St Tenifer/nitr.	St Tenifer/nitr.
3900	Threaded pin	ASTM A193 Gr.B8	ASTM A193 Gr.B8

>>SERIES KX SAFEFLEX

CLASS 150 - 600

Flow Characteristic

CV VALUE IN GAL/MIN



Cv = Flow coefficient - expressing flow rate in U.S. gallons per minute of 40 °F to 100 °F water through fully open valve with 1.0 psi pressure drop across the valve.

Kv = Flow coefficient - expressing flow rate in m³ per hour at 5 °C to 40 °C water through fully open valve with 1 bar pressure drop across the valve.

Modell: KX Class 150

KV-Values												
SIZE		OPEN ANGLE										
mm	Inch	10°	20°	30°	40°	50°	60°	70°	75°	80°	85°	90°
100	4	21	45	70	107	158	240	324	338	362	370	375
125	5	35	75	116	177	262	400	520	568	583	598	605
150	6	50	108	168	256	379	580	780	854	873	899	905
200	8	95	202	331	517	769	1079	1398	1515	1597	1644	1653
250	10	145	312	505	780	1174	1678	2208	2419	2574	2659	2676
300	12	212	506	813	1214	1762	2446	3167	3430	3619	3715	3742
350	14	280	701	1121	1648	2350	3213	4127	4442	4664	4771	5020
400	16	308	688	1140	1786	2704	3939	5470	6300	7106	7452	7486
450	18	337	674	1159	1923	3057	4664	6814	8158	9547	10097	10201
500	20	560	1084	1824	2994	4691	7159	10422	12245	13773	14584	14636
600	24	784	1494	2489	4065	6325	9654	14030	16333	17998	18958	19071
700	28	764	1487	2697	4656	7569	11842	17561	20697	23309	25216	25989
750	30	745	1481	2906	5247	8813	14029	21091	25060	28289	31474	32908
800	32	746	1475	3130	5912	10261	16621	25332	30344	34332	39284	41668
900	36	1055	2209	4350	7826	13168	21040	31491	36884	41914	46510	48732
1000	40	1364	2943	5570	9740	16074	25460	37651	43424	49495	53736	55796

CV-Values												
SIZE		OPEN ANGLE										
mm	Inch	10°	20°	30°	40°	50°	60°	70°	75°	80°	85°	90°
100	4	25	53	82	125	185	281	379	395	424	433	439
125	5	41	88	136	207	307	468	608	665	682	700	708
150	6	59	126	197	300	443	679	913	999	1021	1052	1059
200	8	111	236	387	605	900	1262	1636	1773	1868	1923	1934
250	10	170	365	591	913	1374	1963	2583	2830	3012	3111	3131
300	12	248	592	951	1420	2062	2862	3705	4013	4234	4347	4378
350	14	328	820	1312	1928	2750	3759	4829	5197	5457	5582	5873
400	16	360	805	1334	2090	3164	4609	6400	7371	8314	8719	8759
450	18	394	789	1356	2250	3577	5457	7972	9545	11170	11813	11935
500	20	655	1268	2134	3503	5488	8376	12194	14327	16114	17063	17124
600	24	917	1748	2912	4756	7400	11295	16415	19110	21058	22181	22313
700	28	894	1740	3155	5448	8856	13855	20546	24215	27272	29503	30407
750	30	872	1733	3400	6139	10311	16414	24676	29320	33098	36825	38502
800	32	873	1726	3662	6917	12005	19447	29638	35502	40168	45962	48752
900	36	1234	2585	5090	9156	15407	24617	36844	43154	49039	54417	57016
1000	40	1596	3443	6517	11396	18807	29788	44052	50806	57909	62871	65281

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The values shown above do not apply for valves with welding ends.
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>>SERIES KX SAFEFLEX

CLASS 150 - 600

Modell: KX Class 300

KV-Values

SIZE		OPEN ANGLE										
mm	Inch	10°	20°	30°	40°	50°	60°	70°	75°	80°	85°	90°
100	4	21	45	70	107	158	240	324	338	362	370	375
125	5	35	75	116	177	262	400	520	568	583	598	605
150	6	50	108	168	256	379	580	780	854	873	899	905
200	8	95	202	331	517	769	1079	1398	1515	1597	1644	1653
250	10	145	312	505	780	1174	1678	2208	2419	2574	2659	2676
300	12	212	506	813	1214	1762	2446	3167	3430	3619	3715	3742
350	14	280	701	1121	1648	2350	3213	4127	4442	4664	4771	5020
400	16	308	688	1140	1786	2704	3939	5470	6300	7106	7452	7486
450	18	337	674	1159	1923	3057	4664	6814	8158	9547	10097	10201
500	20	560	1084	1824	2994	4691	7159	10422	12245	13773	14584	14636
600	24	666	1270	2116	3455	5376	8206	11926	13883	15298	16114	16210
700	28	649	1264	2292	3958	6434	10066	14927	17592	19813	21434	22091
750	30	633	1259	2470	4460	7491	11925	17927	21301	24046	26753	27972
800	32	634	1254	2661	5025	8722	14128	21532	25792	29182	33391	35418
900	36	897	1878	3698	6652	11193	17884	26767	31351	35627	39534	41422
1000	40	1159	2502	4735	8279	13663	21641	32003	36910	42071	45676	47427

CV-Values

SIZE		OPEN ANGLE										
mm	Inch	10°	20°	30°	40°	50°	60°	70°	75°	80°	85°	90°
100	4	25	53	82	125	185	281	379	395	424	433	439
125	5	41	88	136	207	307	468	608	665	682	700	708
150	6	59	126	197	300	443	679	913	999	1021	1052	1059
200	8	111	236	387	605	900	1262	1636	1773	1868	1923	1934
250	10	170	365	591	913	1374	1963	2583	2830	3012	3111	3131
300	12	248	592	951	1420	2062	2862	3705	4013	4234	4347	4378
350	14	328	820	1312	1928	2750	3759	4829	5197	5457	5582	5873
400	16	360	805	1334	2090	3164	4609	6400	7371	8314	8719	8759
450	18	394	789	1356	2250	3577	5457	7972	9545	11170	11813	11935
500	20	655	1268	2134	3503	5488	8376	12194	14327	16114	17063	17124
600	24	780	1486	2475	4043	6290	9601	13953	16243	17899	18854	18966
700	28	760	1479	2682	4630	7527	11777	17464	20583	23181	25077	25846
750	30	741	1473	2890	5218	8765	13952	20975	24922	28133	31301	32727
800	32	742	1467	3113	5879	10205	16530	25193	30177	34143	39068	41439
900	36	1049	2197	4326	7783	13096	20924	31318	36681	41683	46254	48464
1000	40	1356	2927	5539	9686	15986	25320	37444	43185	49223	53440	55489

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OHL Gutermuth Industrial Valves GmbH

Modell: KX Class 600

KV-Values

SIZE		OPEN ANGLE										
mm	Inch	10°	20°	30°	40°	50°	60°	70°	75°	80°	85°	90°
100	4	18	38	60	91	134	204	275	287	308	315	319
125	5	30	64	99	150	223	340	442	483	496	508	514
150	6	43	92	143	218	322	493	663	726	742	764	769
200	8	81	172	281	439	654	917	1188	1288	1357	1397	1405
250	10	123	265	429	663	998	1426	1877	2056	2188	2260	2275
300	12	180	430	691	1032	1498	2079	2692	2916	3076	3158	3181
350	14	238	596	953	1401	1998	2731	3508	3776	3964	4055	4267
400	16	262	585	969	1518	2298	3348	4650	5355	6040	6334	6363
450	18	286	573	985	1635	2598	3964	5792	6934	8115	8582	8671
500	20	476	921	1550	2545	3987	6085	8859	10408	11707	12396	12441
600	24	566	1079	1798	2937	4570	6975	10137	11801	13004	13697	13779
700	28	552	1074	1949	3364	5469	8556	12688	14954	16841	18219	18777
750	30	538	1070	2100	3791	6367	10136	15238	18106	20439	22740	23776
800	32	539	1066	2261	4271	7414	12009	18302	21924	24805	28383	30105
900	36	762	1596	3143	5654	9514	15201	22752	26649	30283	33603	35209
1000	40	985	2126	4024	7037	11613	18395	27203	31374	35760	38824	40313

CV-Values

SIZE		OPEN ANGLE										
mm	Inch	10°	20°	30°	40°	50°	60°	70°	75°	80°	85°	90°
100	4	21	45	70	106	157	239	322	336	360	368	373
125	5	35	75	115	176	261	398	517	565	580	595	602
150	6	50	107	167	255	377	577	776	849	868	894	900
200	8	94	201	329	514	765	1073	1390	1507	1588	1635	1644
250	10	144	310	502	776	1168	1669	2196	2406	2560	2644	2661
300	12	211	503	809	1207	1752	2433	3150	3411	3599	3695	3721
350	14	278	697	1115	1639	2337	3195	4104	4418	4638	4745	4992
400	16	306	684	1134	1776	2689	3917	5440	6265	7067	7411	7445
450	18	335	670	1153	1912	3040	4638	6777	8113	9494	10041	10145
500	20	557	1078	1814	2978	4665	7120	10365	12178	13697	14504	14556
600	24	663	1263	2104	3436	5347	8161	11860	13807	15214	16026	16121
700	28	646	1257	2280	3936	6398	10010	14845	17496	19704	21316	21969
750	30	630	1252	2457	4435	7450	11859	17829	21184	23913	26606	27818
800	32	631	1247	2646	4998	8674	14050	21414	25651	29022	33208	35223
900	36	892	1867	3677	6616	11131	17786	26620	31179	35431	39316	41194
1000	40	1153	2488	4708	8233	13588	21522	31827	36707	41839	45424	47166

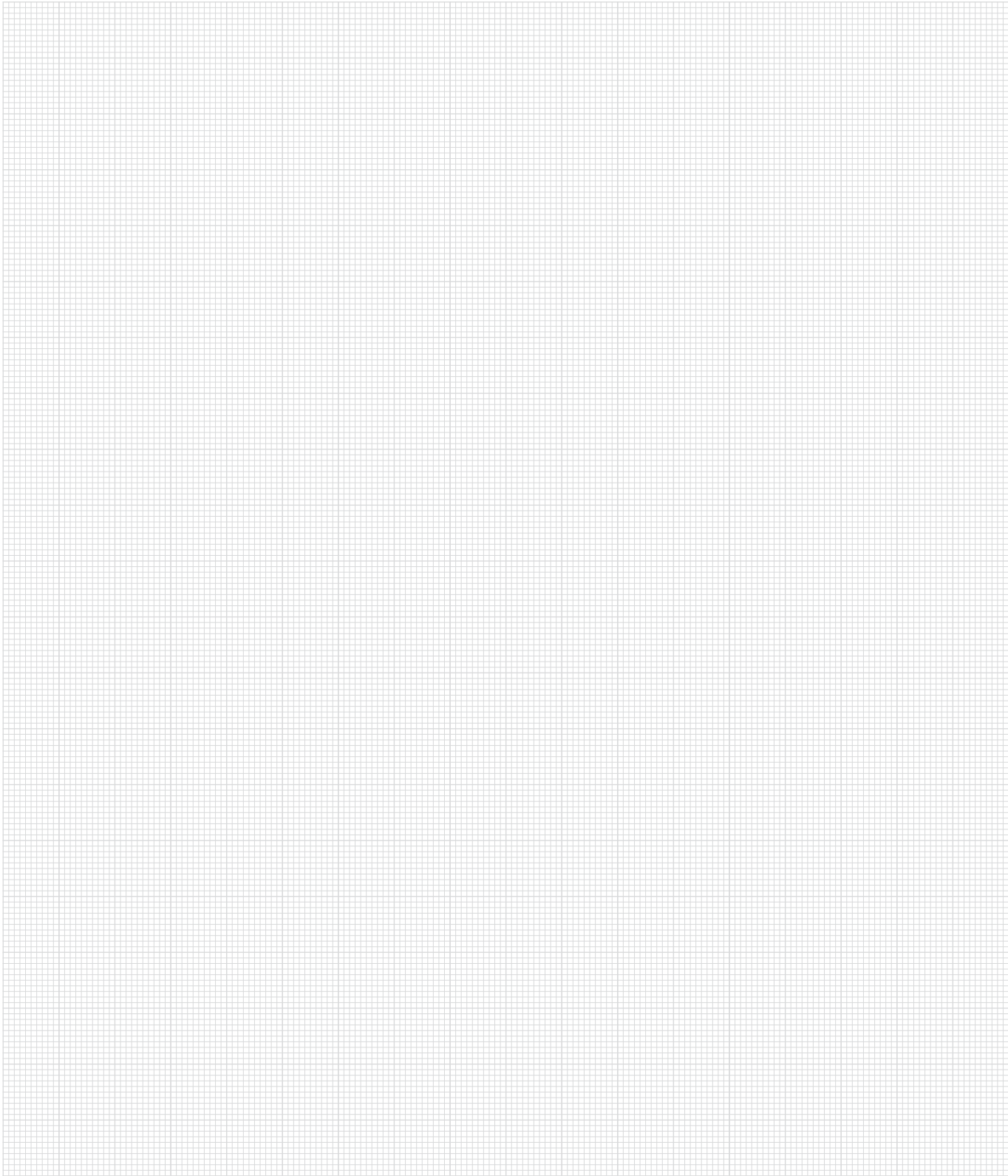
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OHL Gutermuth Industrial Valves GmbH

>>NOTES



Imprint
Layout & Design:
RSB DESIGN e.K
www.rsb-design.de

Status
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QUALITY RESEARCH AND DEVELOPMENT



The manifold application criterias for valves require strict measures in terms of manufacturing and testing. Our ISO 9001 approved quality system covers all process stages and ensures constant results. With measuring instruments of the latest state of the art we are performing safety and functional tests. Permanent on going research and development are based upon experiences in reference plants worldwide. Our final products are undergoing continuous endurance tests and will be constantly improved according to the latest state of technology. All these measures are ensuring optimization of performance and adaptation to the latest technical innovations.

SHUT-OFF AND MODULATING SERVICE - SAFE AND ECONOMIC



website:



company
video:

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