

TRI-CON

DATA SHEETS

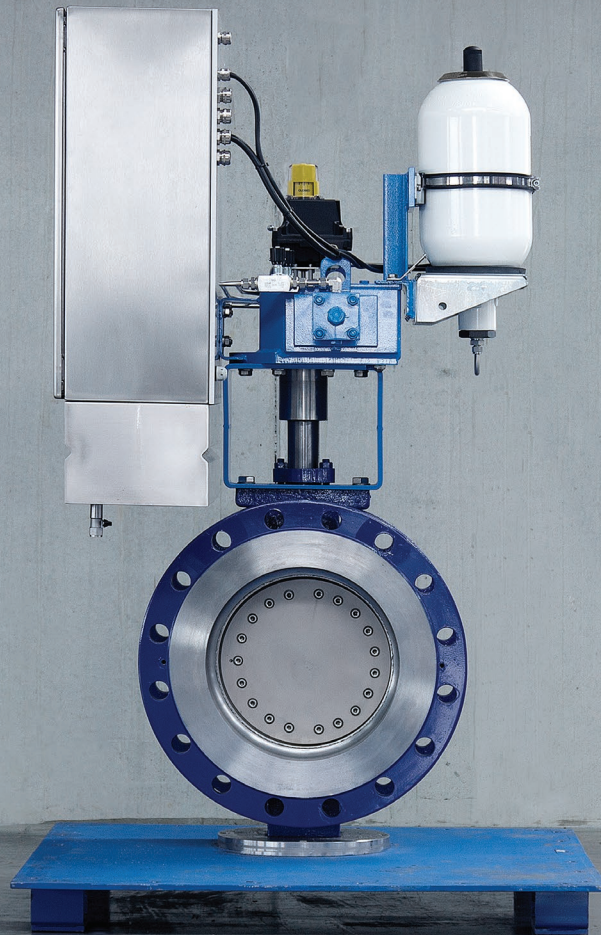
TRI-CON

CONTENT

The complete range	8
Series TRI-CON	9
Model Numbers	29
Thread Dimensions	30
F-Connection Mounting Bracket	33
Standard Materials	34
Shaft Ends	36
Spare Parts Kit	38
Certificates	39

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Eurovalve UK Limited
Unit 1D Campbell Way
 (01909) 530444
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ZWICK TRI-CON

Triple-Offset Conical Seating

TRI-CON valves incorporate a unique third offset with a 25-degree incline, eliminating the friction between the laminated seal ring and the body seat. The resulting camming action allows the stainless and graphite laminated seal ring, with a corresponding 25-degree inclined surface, to seat into an inclined 25-degree body seat. The result: true cone-in-cone seating and reliable zero-leakage performance.

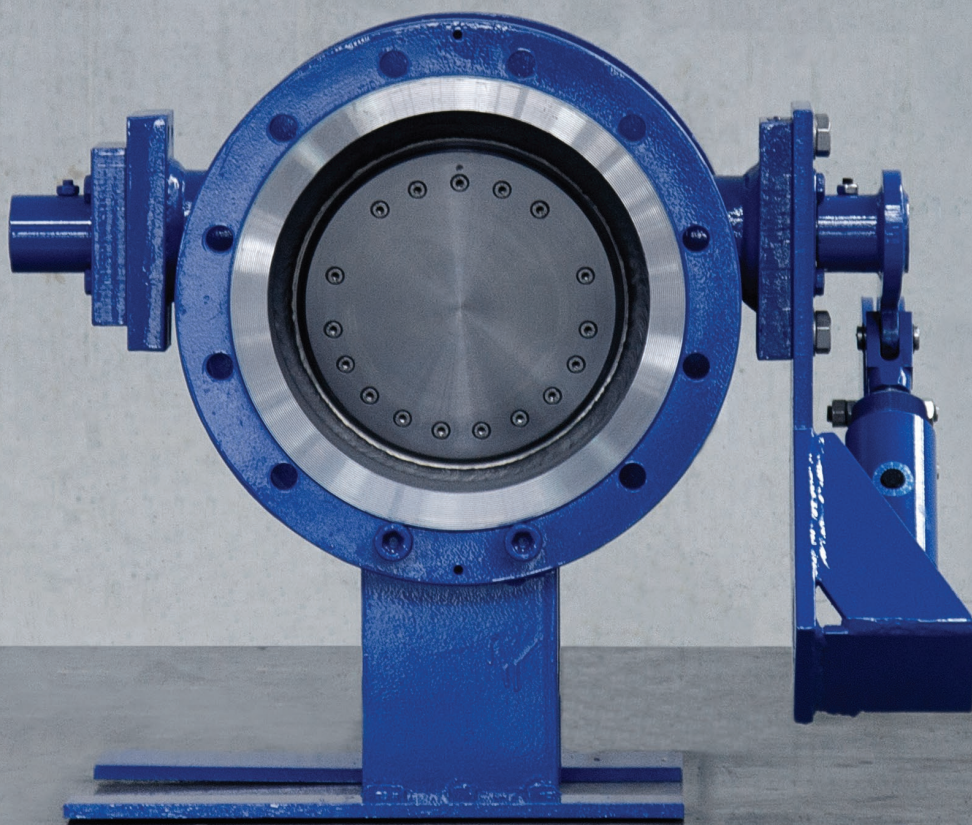
Statically Held Laminated Seal Ring/Flat Gasket

TRI-CON valves offer the widest laminated seal ring in the market today, made possible by true cone-in-cone seating design. This wide lamination of stainless steel and graphite provides a forgiving sealing surface when it is seated against line scale or particulates. Multiple laminations naturally translate into multiple sealing surfaces to achieve zero leakage.

Self-Centering Disc Design – No Pinning of shaft to Disc

Zwick's TRI-CON valve employs a self-centering disc that is keyed to the shaft, not pinned. Other triple-offset valve manufacturers permanently pin or affix their discs to the shaft. To accommodate for differential thermal expansion of the shaft and the disc, other manufacturers must rely on a seal ring that compresses radially. This makes their designs subject to jamming due to thermal expansion.

HIGH STANDARD VALVES FOR NON-STANDARD CONDITIONS.





TRI-CON

THE COMPLETE RANGE OF SERIES TRI-CON

Modell L1 / Anflansch Baulänge nach DIN EN 558 R16 (DIN 3202 K3) Model L1 / Lug Type Face to Face acc. to DIN EN 558 R16 (DIN 3202 K3)	Modell F1 / Doppelflansch Baulänge nach DIN EN 558 R14 (DIN 3202 F4) Model F1 / Double Flange Face to Face acc. to DIN EN 558 R14 (DIN 3202 F4)
Nennweite DN 50 – 900 Druckstufen PN 10/16/25/40/63/100 Size DN 50 – 900 Pressure PN 10/16/25/40/63/100	Nennweite DN 80 – 1500 Druckstufen PN 10/16/25/40/63/100 Size DN 80 – 1500 Pressure PN 10/16/25/40/63/100

All models are available in different materials. Higher pressure clas- ses, bigger sizes and different face to face dimensions on request.

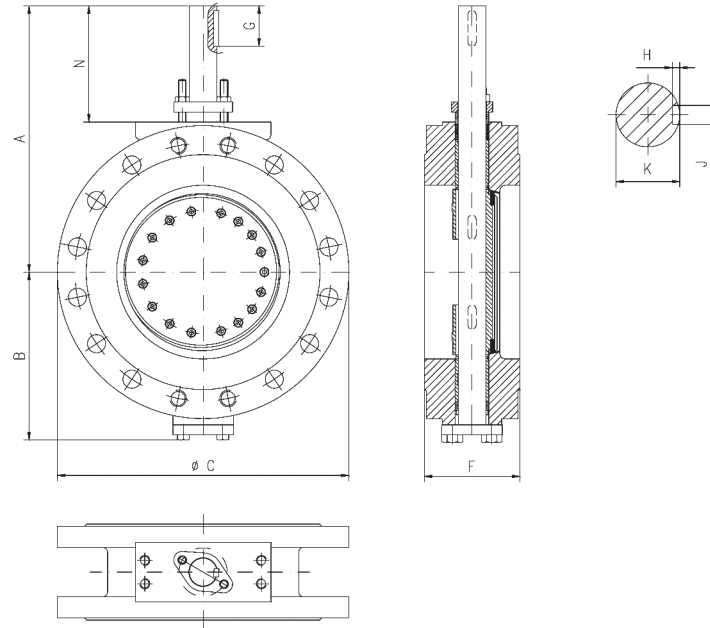
Modell S1 / Einschweiß Baulänge nach DIN EN 558 R14 (DIN 3202 F4) Model S1 / Butt weld Face to Face acc. to DIN EN 558 R14 (DIN 3202 F4)	Modell D1 / Doppelflansch PN10-40 Baulänge nach DIN EN 558 R13 (DIN 3202 F16) PN63/100 Baulänge nach DIN EN 558 R14 (DIN 3202 F4) Model D1 / Double Flange PN10-40 Face to Face acc. to DIN EN 558 R13 (DIN 3202 F16) PN63/100 Face to Face acc. to DIN EN 558 R14 (DIN 3202 F4)
Nennweite DN 80 – 1500 Druckstufen PN 10/16/25/40/63/100 Size DN 80 – 1500 Pressure PN 10/16/25/40/63/100	Nennweite DN 50 - 1800 Druckstufen PN 10/16/25/40/63/100 Size DN 50 - 1800 Pressure PN 10/16/25/40/63/100

Modell I1 / Doppelflansch ANSI 150-300 Baulänge nach ISO 5752 Serie 13 ANSI 600 Baulänge nach ISO 5752 Serie 14 Model I1 / Double Flange ANSI 150-300 Face to Face acc. to ISO 5752 Series 13 ANSI 600 Face to Face acc. to ISO 5752 Series 14	Modell A1 / Anflansch Baulänge nach API 609 T.3 Model A1 / Lug Type Face to Face acc. to API 609 T.3
Nennweite 2" - 72" Druckstufen ANSI 150/300/600/900 Size 2" - 72" Pressure ANSI 150/300/600/900	Nennweite 2" – 36" Druckstufen ANSI 150/300/600/900 Size 2" – 36" Pressure ANSI 150/300/600/900

Modell B1 / Doppelflansch Baulänge nach B16.10 Model B1 / Double Flange Face to Face acc. to B16.10	Modell S1 / Einschweiß Baulänge nach ISO 5752 Serie 14 Model S1 / Butt weld Face to Face acc. to ISO 5752 Series 14
Nennweite 3" – 30" Druckstufen ANSI 150/300/600 Size 3" – 30" Pressure ANSI 150/300/600	Nennweite 3" – 60" Druckstufen ANSI 150/300/600 Size 3" – 60" Pressure ANSI 150/300/600

TRI-CON

MODELL / MODEL D1 (DOPPELFLANSCH / DOUBLE FLANGE EN 558 R13 / DIN 3202 F16) ABMESSUNGEN UND GEWICHTE / DIMENSIONS AND WEIGHTS DN 65 – DN 900 / PN 10 – 40 FREIES WELLENENDE / BARE SHAFT



ABMESSUNGEN / DIMENSIONS IN MM

DN Size	65 2 1/2"	80 3"	100 4"	125 5"	150 6"	200 8"	250 10"	300 12"	350 14"	400 16"	450 18"	500 20"	600 24"	700 28"	800 32"	900 36"
A	231	231	242	272	290	376	417	436	528	578	628	670	757	904	978	1009
B	143	143	159	169	196	224	258	315	349	413	468	501	581	666	748	766
C (PN10)	200	200	229	254	300	355	420	485	550	615	640	700	840	934	1085	1185
C (PN16)	200	200	229	254	300	355	420	485	550	615	640	725	840	934	1085	1185
C (PN25)	200	200	254	270	300	355	445	485	550	615	712	730	845	1035	1085	1185
C (PN40)	200	200	254	270	300	381	445	521	585	660	712	775	915	1035	1150	1250
F	114	114	127	140	140	152	165	178	190	216	222	229	267	292	318	330
G	32	31	30	48	39	48	48	52	91	91	91	101	103	143	143	143
H	3,5	3,5	3,5	4	5	5	5	5,5	6	7	7,5	7,5	9	10	10	10
J	6	6	6	8	10	10	12	14	16	18	20	20	25	28	28	28
K	20	20	22	25	32	38	40	45	55	65	70	75	90	110	110	110
N	111	111	107	127	120	168	169	169	231	230	230	240	255	326	337	336

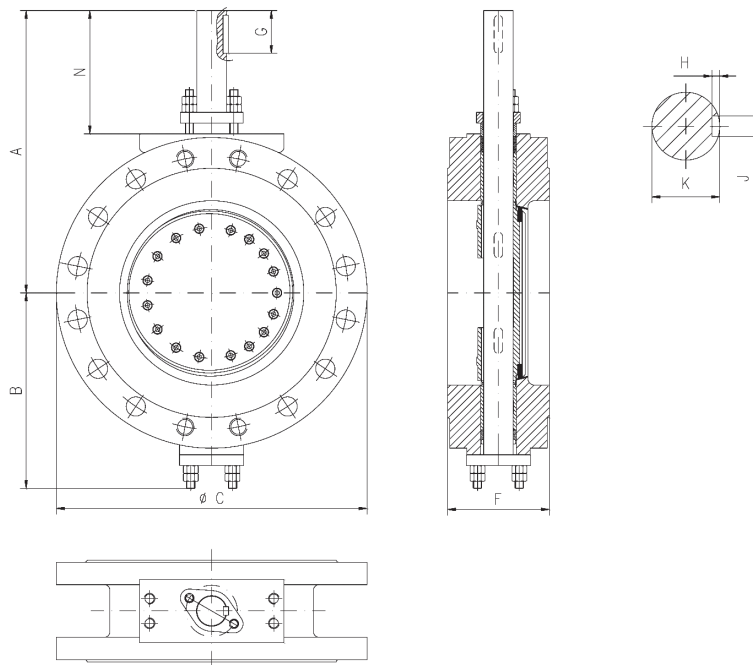
GEWICHTE / WEIGHTS IN KG

DN Size	65 2 1/2"	80 3"	100 4"	125 5"	150 6"	200 8"	250 10"	300 12"	350 14"	400 16"	450 18"	500 20"	600 24"	700 28"	800 32"	900 36"
PN10	19	19	25	35	40	61	85	140	170	255	320	375	590	880	**	1400
PN16	19	19	25	35	40	61	85	140	170	255	320	375	590	880	912	1460
PN25	22	22	25	35	53	83	113	140	170	252	370	378	605	1170	**	**
PN40	22	22	34	35	53	83	113	160	215	252	370	456	745	**	**	1800

** IN ABHÄNGIGKEIT VON DER SPEZIFIKATION / IN ACCORDANCE TO SPECIFICATION

TRI-CON

MODELL / **MODEL D1** (DOPPELFLANSCH / **DOUBLE FLANGE EN 558 R14 / DIN 3202 F4**) ABMESSUNGEN UND GEWICHTE / **DIMENSIONS AND WEIGHTS**
DN 80 – DN 600 / PN 63 FREIES WELLENENDE / **BARE SHAFT**



ABMESSUNGEN / DIMENSIONS IN MM

DN Size	80 3"	100 4"	125 5"	150 6"	200 8"	250 10"	300 12"	350 14"	400 16"	500 20"	600 24"
A	252	281	317	316	435	527	551	550	643	846	893
B	163	194	231	243	280	339	347	389	451	573	605
C	210	274	330	356	423	508	560	604	715	813	940
F	180	190	200	210	230	250	270	290	310	350	390
G	53	53	53	53	93	93	103	93	113	128	163
H	3,5	4	4	5	5,5	6	6	7	9	10	12
J	6	8	8	10	14	16	16	18	25	28	36
K	20	25	25	38	45	55	55	65	90	110	135
N	132	126	132	133	210	244	251	242	263	325	371

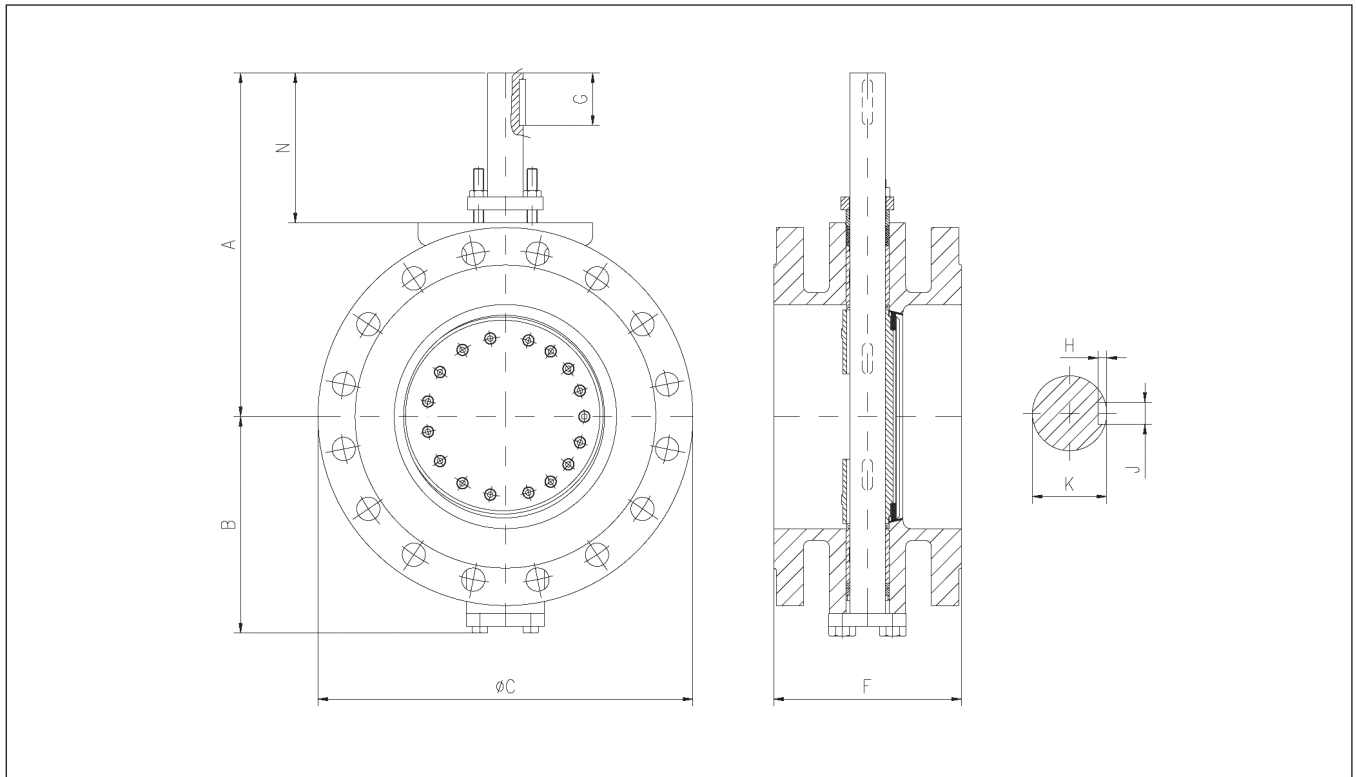
GEWICHTE / WEIGHTS IN KG

DN Size	80 3"	100 4"	125 5"	150 6"	200 8"	250 10"	300 12"	350 14"	400 16"	500 20"	600 24"
PN63	30	44	**	93	138	245	300	340	565	900	**

** IN ABHÄNGIGKEIT VON DER SPEZIFIKATION / IN ACCORDANCE TO SPECIFICATION

TRI-CON

MODELL / MODEL F1 (DOPPELFLANSCH / DOUBLE FLANGE EN 558 R14 / DIN 3202 F4) ABMESSUNGEN UND GEWICHTE / DIMENSIONS AND WEIGHTS DN 80 – DN 900 / PN 10 – 40 FREIES WELLENENDE / BARE SHAFT



ABMESSUNGEN / DIMENSIONS IN MM

DN Size	80 3"	100 4"	125 5"	150 6"	200 8"	250 10"	300 12"	350 14"	400 16"	450 18"	500 20"	600 24"	700 28"	800 32"	900 36"
A	231	242	272	290	376	417	436	528	578	628	670	757	904	978	1009
B	143	159	169	196	224	258	315	349	413	468	501	581	666	748	766
C (PN10)	200	220	250	285	340	395	445	505	565	615	670	780	895	1015	1125
C (PN16)	200	220	250	285	340	405	460	520	580	640	715	840	910	1025	1135
C (PN25)	200	235	270	300	360	450	485	555	620	670	730	845	960	1085	1185
C (PN40)	200	235	270	300	375	450	521	580	660	685	755	890	995	1140	1250
F	180	190	200	210	230	250	270	290	310	330	350	390	430	470	510
G	31	30	48	39	48	48	52	91	91	91	101	103	143	143	143
H	3,5	3,5	4	5	5	5	5,5	6	7	7,5	7,5	9	10	10	10
J	6	6	8	10	10	12	14	16	18	20	20	25	28	28	28
K	20	22	25	32	38	40	45	55	65	70	75	90	110	110	110
N	111	107	127	120	168	169	169	231	230	230	240	255	326	337	336

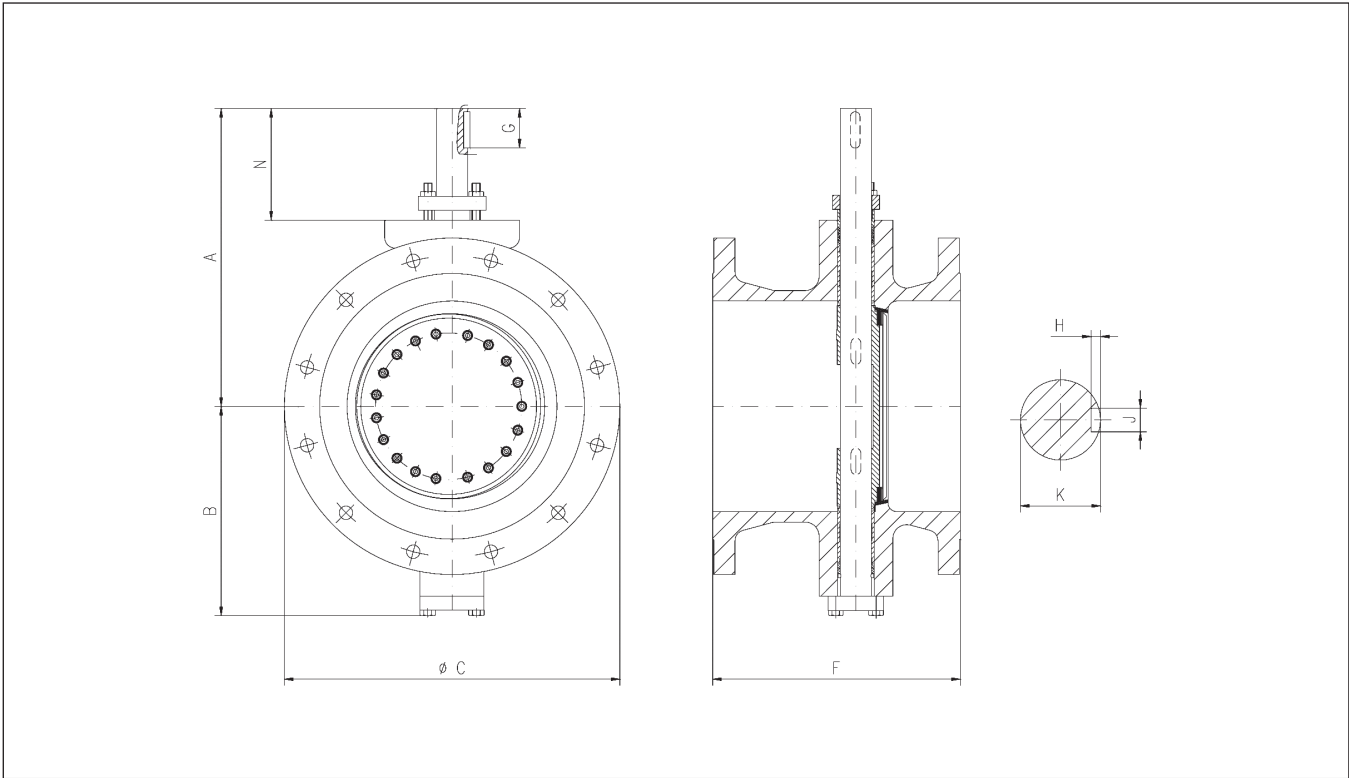
GEWICHTE / WEIGHTS IN KG

DN Size	80 3"	100 4"	125 5"	150 6"	200 8"	250 10"	300 12"	350 14"	400 16"	450 18"	500 20"	600 24"	700 28"	800 32"	900 36"
PN10	22	23	35	44	56	88	102	172	220	**	405	535	**	**	**
PN16	22	23	35	44	56	88	118	185	220	**	422	**	**	**	**
PN25	22	25	35	44	76	114	155	220	270	**	433	593	**	**	**
PN40	22	25	35	44	76	114	155	220	333	367	460	**	**	**	**

** IN ABHÄNGIGKEIT VON DER SPEZIFIKATION / IN ACCORDANCE TO SPECIFICATION

TRI-CON

MODELL / **MODEL B1 (DOPPELFLANSCH / DOUBLE FLANGE ANSI B 16.10)**
ABMESSUNGEN UND GEWICHTE / **DIMENSIONS AND WEIGHTS**
3" – 30" / **ANSI 150 - 300 FREIES WELLENENDE / BARE SHAFT**



ABMESSUNGEN / DIMENSIONS IN MM

DN Size	80 3"	100 4"	125 5"	150 6"	200 8"	250 10"	300 12"	350 14"	400 16"	450 18"	500 20"	600 24"	700 28"	750 30"
A	231	242	272	290	376	417	436	528	578	628	670	757	904	978
B	143	159	169	196	224	258	315	349	413	468	501	581	666	748
C (ANSI150)	191	229	254	280	343	407	483	534	597	640	699	813	928	985
C (ANSI300)	210	254	280	318	381	445	521	585	648	711	775	915	1035	1093
F (ANSI150)	203	229	254	267	292	330	356	381	406	432	457	508	610	610
F (ANSI300)	283	305	381	403	419	457	502	762	838	914	991	1143	1346	1397
G	31	30	48	39	48	48	52	91	91	91	101	103	143	143
H	3,5	3,5	4	5	5	5	5,5	6	7	7,5	7,5	9	10	10
J	6	6	8	10	10	12	14	16	18	20	20	25	28	28
K	20	22	25	32	38	40	45	55	65	70	75	90	110	110
N	111	107	127	120	168	169	169	231	230	230	240	255	326	337

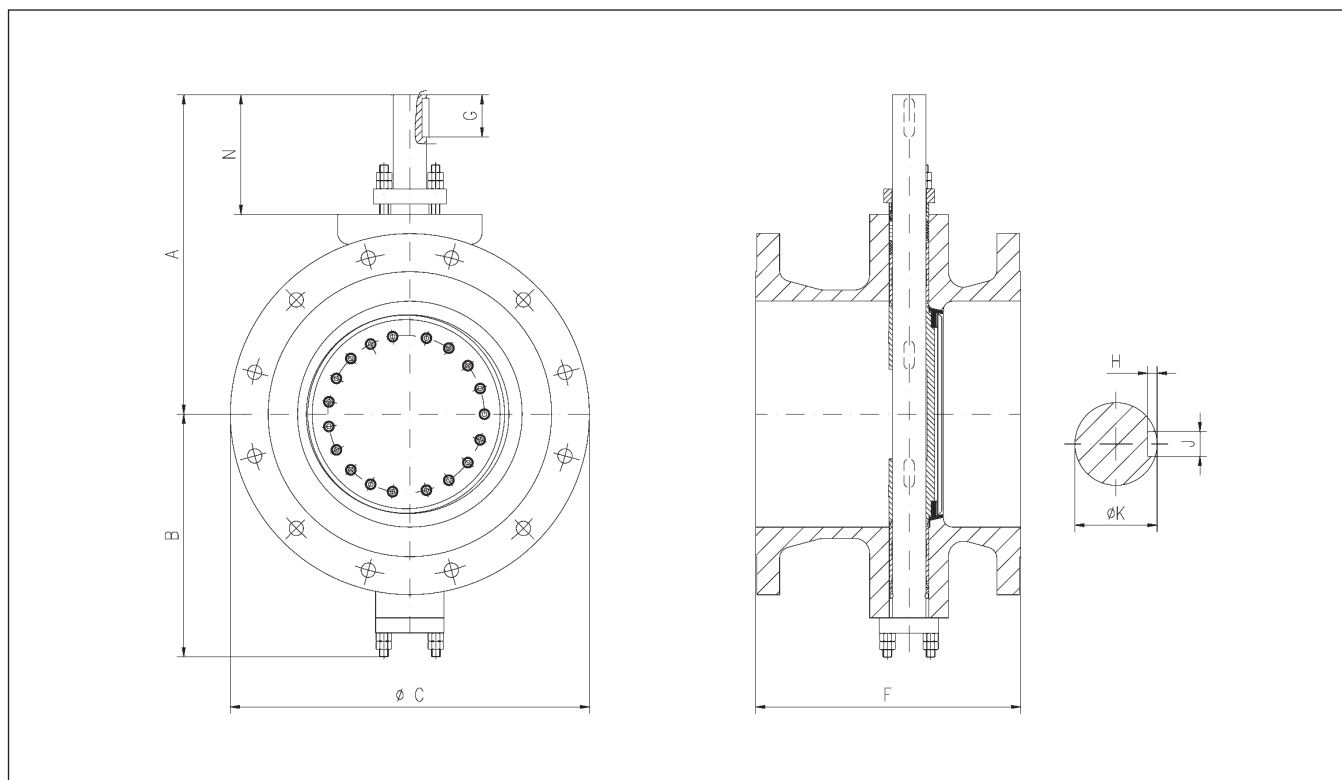
GEWICHTE / WEIGHTS IN KG

DN Size	80 3"	100 4"	125 5"	150 6"	200 8"	250 10"	300 12"	350 14"	400 16"	450 18"	500 20"	600 24"	700 28"	750 30"
ANSI150	21	27	**	46	70	103	150	205	230	348	435	695	1320	1390
ANSI300	29	39	**	67	108	140	200	334	452	568	860	1130	1720	1840

** IN ABHÄNGIGKEIT VON DER SPEZIFIKATION / IN ACCORDANCE TO SPECIFICATION

TRI-CON

MODELL / **MODEL B1** (DOPPELFLANSCH / **DOUBLE FLANGE** ANSI B 16.10)
 ABMESSUNGEN UND GEWICHTE / **DIMENSIONS AND WEIGHTS** 3" – 24" / ANSI 600
 FREIES WELLENENDE / **BARE SHAFT**



ABMESSUNGEN / DIMENSIONS IN MM

DN Size	80 3"	100 4"	150 6"	200 8"	250 10"	300 12"	350 14"	400 16"	450 18"	500 20"	600 24"
A	252	281	316	435	527	551	550	643	677	846	893
B	163	196	243	280	339	347	389	451	501	573	605
C	210	273	356	419	508	559	604	686	743	813	940
F	356	432	559	660	787	838	889	991	1092	1194	1397
G	53	53	53	93	93	103	93	113	113	128	163
H	3,5	4	5	5,5	6	6	7	9	9	10	12
J	6	8	10	14	16	16	18	25	25	28	36
K	20	25	38	45	55	55	65	90	90	110	135
N	132	126	133	210	244	251	242	263	265	325	371

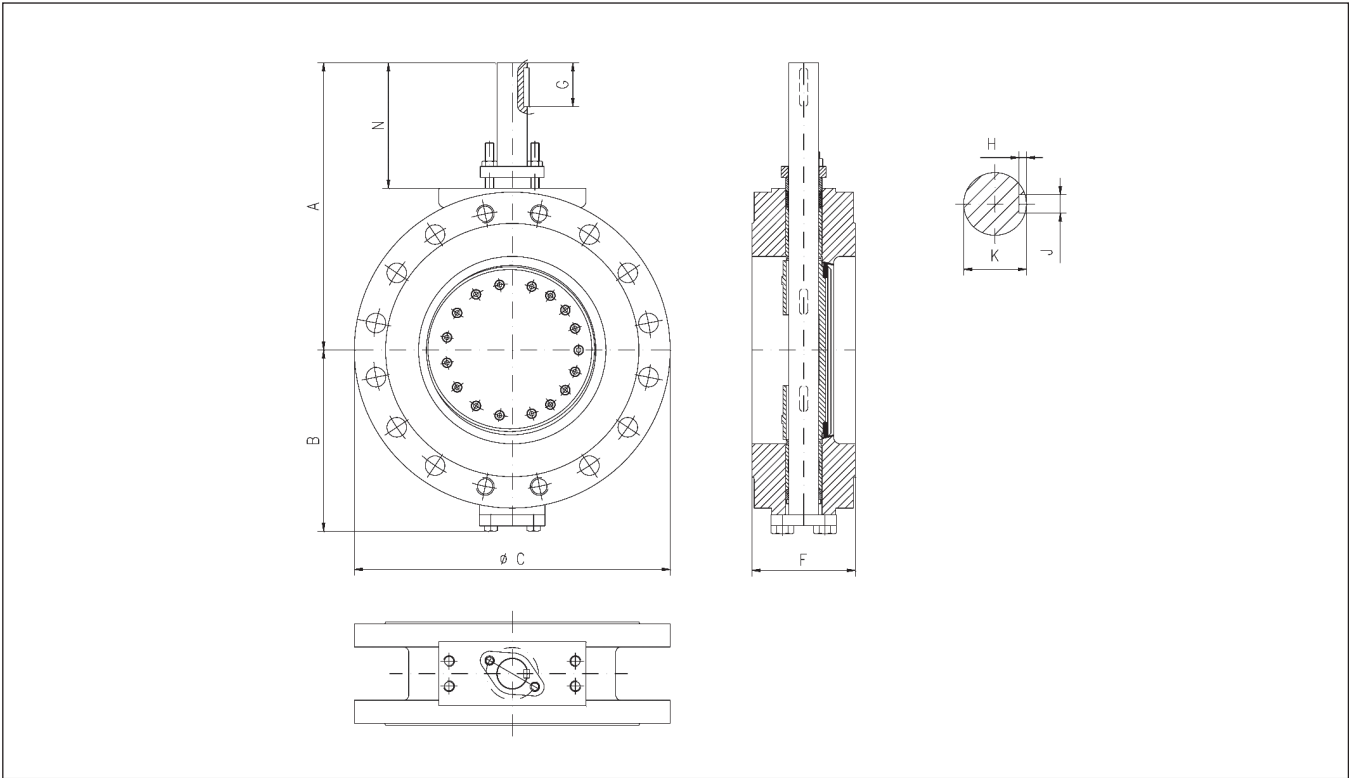
GEWICHTE / WEIGHTS IN KG

DN Size	80 3"	100 4"	150 6"	200 8"	250 10"	300 12"	350 14"	400 16"	450 18"	500 20"	600 24"
ANSI600	63	76	164	196	325	376	425	543	678	815	**

** IN ABHÄNGIGKEIT VON DER SPEZIFIKATION / IN ACCORDANCE TO SPECIFICATION

TRI-CON

MODELL / **MODEL I1 (DOPPELFLANSCH / DOUBLE FLANGE (ISO 5752 Serie 13)**
ABMESSUNGEN UND GEWICHTE / **DIMENSIONS AND WEIGHTS**
3" – 36" / ANSI 150 - 300 **FREIES WELLENENDE / BARE SHAFT**



ABMESSUNGEN / DIMENSIONS IN MM

DN Size	80 3"	100 4"	125 5"	150 6"	200 8"	250 10"	300 12"	350 14"	400 16"	450 18"	500 20"	600 24"	700 28"	750 30"	800 32"	900 36"
A	231	242	272	290	376	417	436	528	578	628	670	757	904	978	978	1009
B	143	159	169	196	224	258	315	349	413	468	501	581	666	748	748	766
C (ANSI150)	191	229	254	300	355	420	485	550	595	640	700	815	934	985	1085	1185
C (ANSI300)	210	254	280	323	381	445	521	585	660	712	775	915	1035	1111	1150	1270
F	114	127	140	140	152	165	178	190	216	222	229	267	292	318	318	330
G	31	30	48	39	48	48	52	91	91	91	101	103	143	143	143	143
H	3,5	3,5	4	5	5	5	5,5	6	7	7,5	7,5	9	10	10	10	10
J	6	6	8	10	10	12	14	16	18	20	20	25	28	28	28	28
K	20	22	25	32	38	40	45	55	65	70	75	90	110	110	110	110
N	111	107	127	120	168	169	169	231	230	230	240	255	326	337	337	336

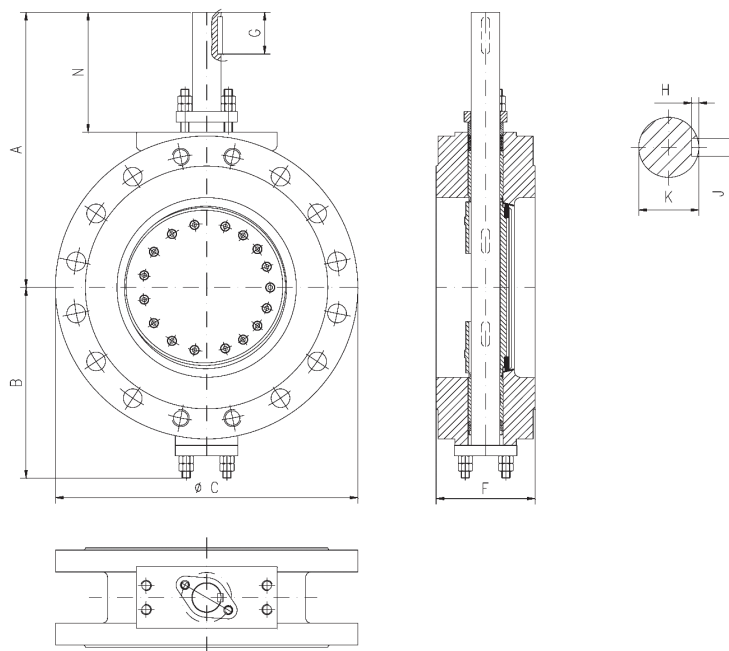
GEWICHTE / WEIGHTS IN KG

DN Size	80 3"	100 4"	125 5"	150 6"	200 8"	250 10"	300 12"	350 14"	400 16"	450 18"	500 20"	600 24"	700 28"	750 30"	800 32"	900 36"
ANSI150	20	24	**	42	65	91	122	177	255	289	365	589	880	1037	1157	1385
ANSI300	22	31	**	53	79	112	158	280	321	381	469	741	1150	1320	1400	1730

** IN ABHÄNGIGKEIT VON DER SPEZIFIKATION / IN ACCORDANCE TO SPECIFICATION

TRI-CON

MODELL / **MODEL I1** (DOPPELFLANSCH / **DOUBLE FLANGE** (ISO 5752 Serie 14)
 ABMESSUNGEN UND GEWICHTE / **DIMENSIONS AND WEIGHTS** 3" – 36" / ANSI 600
 FREIES WELLENENDE / **BARE SHAFT**



ABMESSUNGEN / DIMENSIONS IN MM

DN Size	80 3"	100 4"	150 6"	200 8"	250 10"	300 12"	350 14"	400 16"	450 18"	500 20"	600 24"	700 28"	750 30"	900 36"
A	252	281	316	435	527	551	550	643	677	846	893	1101	1091	1295
B	163	196	243	280	339	347	389	451	501	573	605	745	748	868
C	210	274	356	430	508	585	604	715	743	813	940	1074	1131	1315
F	180	190	210	230	250	270	290	310	330	350	390	430	470	510
G	53	53	53	93	93	103	93	113	113	128	163	183	163	223
H	3,5	4	5	5,5	6	6	7	9	9	10	12	13	12	15
J	6	8	10	14	16	16	18	25	25	28	36	40	36	45
K	20	25	38	45	55	55	65	90	90	110	135	160	140	200
N	132	126	133	210	244	251	242	263	265	325	371	421	413	465

GEWICHTE / WEIGHTS IN KG

DN Size	80 3"	100 4"	150 6"	200 8"	250 10"	300 12"	350 14"	400 16"	450 18"	500 20"	600 24"	700 28"	750 30"	900 36"
ANSI600	30	44	93	138	245	295	350	565	600	885	1108	1847	1990	3260

www.eurovalve.co.uk

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Designation	Size	Pressure class	Body & Disc material	Shaft material	Packing	Lamination material	Execution	Operation
A1 = API 609 Lug Type Table 2	0050 = DN 50 = 2"	A = PN 10	A = GP240GH / P265GH	A = 1.4057 [SS431]	1 = Graphite	1 = Stainless Steel / Graphite	A = Standard	A = Bare Shaft
B1 = B16.10 Gate Valve Double Flange	0065 = DN 65 = 2.5"	B = PN 16	B = 1.4552 [CF8C]	B = 1.4571 [SS316Ti]	2 = PTFE	2 = Stainless Steel Solid Laminate	B = Inconel Seat	E = Electrical Actuator
I1 = ISO 5752 Double Flange	0080 = DN 80 = 3"	C = PN 25	C = 1.4571 [SS316Ti]	C = 1.4980 [AISI660]	3 = Kalrez	3 = Stainless Steel / PTFE	C = Flange with Groove	G = Gear
W1 = Wafer type API 609	0100 = DN 100 = 4"	D = PN 40	D = 1.4408	D = Duplex	4 = Special	4 = Hastelloy / Graphite	D = High Cylice Bearing	H = Hydraulic Actuator
D1 = EN 558 R13/R14 (DIN 3202 / F16 / F4) Double Flange	0125 = DN 125 = 5"	E = PN 63	E = 1.4301 [SS304]	E = 1.4301 [SS304]	5 = Graphite / Live-Loading	5 = Special	E = Sealed Bearing	I = Gear with Switch Box
F1 = EN 558 R14 (DIN 3202 / F4) Double Flange	0150 = DN 150 = 6"	F = PN 100	F = 1.4307 [SS304L]	F = 1.4307 [SS304L]	6 = PTFE / Live-Loading	6 = Duplex / Graphite	F = Stellite Seat	M = Mounting Bracket
L1 = EN 558 R16 (DIN 3202 / K3) Lug type	0200 = DN 200 = 8"	G = PN 160	G = 1.7357 [WC6]	G = 1.4923	7 = O2-Graphite	7 = Inconel / O2-Graphite	G = Blow out proof shaft acc. API 609 for DIN Valves	P = Pneumatic Actuator
S1 = EN 558 R14 (DIN 3202 / F4) Buttweld / Fabricated	0250 = DN 250 = 10"	H = PN 250	H = Hastelloy	H = Hastelloy	8 = O2-Graphite / Live-Loading	8 = Hastelloy	H = Combination E + F	Q = Electrohydraulic Actuator
S2 = EN 558 R14 (DIN 3202 / F4) Buttweld / Casting	0300 = DN 300 = 12"	I = PN 6	I = Inconel	I = Inconel	9 = EPAGRAPH	9 = Duplex	I = Combination D + F	S = Special
WD = EN 558 R16 (DIN 3202 / K3) Wafer Type	0350 = DN 350 = 14"	J = JIS Standard	J = Duplex	J = 1.4401 / 1.4404 [SS316/316L]		0 = Inconel	J = Combination D + F & HT-Bolting	L = Low Temperature Gear
WS = EN 558 R20/R25 (DIN 3202 / K1/K2) Wafer Type	0375 = DN 375 = 15"	X = ANSI 150	K = 1.4401 / 1.4404 [SS316/316L]	K = 1.4541 [SS321]		A = Monel / O2-Graphite	K = Combination D + F + HT-Bolting + Extension	T = High Temperature Gear
LS = EN 558 R20/R25 (DIN 3202 / K1/K2) Lug Type	0400 = DN 400 = 16"	Y = ANSI 300	L = 1.6220 / P355NL	M = Monel K500		B = Bronze / Graphite	L = Body Extension	O = O2- Gear
DB = Double Block and Bleed	0450 = DN 450 = 18"	Z = ANSI 600	M = Monel	N = Nitronics 50		C = Monel	M = Sealed bearing + NACE	N = Offshore Gear
CF = EN 558 R14 (DIN 3202 / F4) Flanged Check Valve	0500 = DN 500 = 20"	W = ANSI 900	N = CS Body & SS Disc	P = 17-4 PH / 1.4542		D = Superduplex / Graphite	N = NACE	R = Gear with Padlock Flange
CS = EN 558 R14 (DIN 3202 / F4) Buttweld Check Valve	0600 = DN 600 = 24"	V = ANSI 1500	O = O2 Brass	Q = Superduplex			O = Steam Jacket	
FA = EN 558 R14 Double Flange with ANSI Connection	0650 = DN 650 = 26"	S = Special	P = C95800/C95500	U = 1.4536-39 [904/904L]			P = Sealed bearing + Steam Jacket	
	0700 = DN 700 = 28"		Q = Superduplex	S = Special			Q = Sealed bearing + Steam Jacket + NACE	
	0750 = DN 750 = 30"		R = 16Mo3 / 1.5415 / G20Mo5 / 1.5419				R = Flange with Recess	
	0800 = DN 800 = 32"		S = Special				S = Special	
	0900 = DN 900 = 36"		T = 1.4827				T = HT-Bolting	
	1000 = DN 1000 = 40"		U = 1.4859				U = Combination L & T	
	1050 = DN 1050 = 42"		V = SS / O2 Brass				V = Shaft Extension	
	.		W = WC9				W = Combination T + V	
			X = LCB				X = Combination L + N + T	
			Y = CF8M					
	.		Z = WCB / A516Gr.70					
	.		1 = 1.4536-39 [904/904L]					
	.		3 = CF3					
			4 = CF3M					
	.		5 = C5					
	2200 = DN 2200 = 88"		6 = C12					
			8 = CF8					

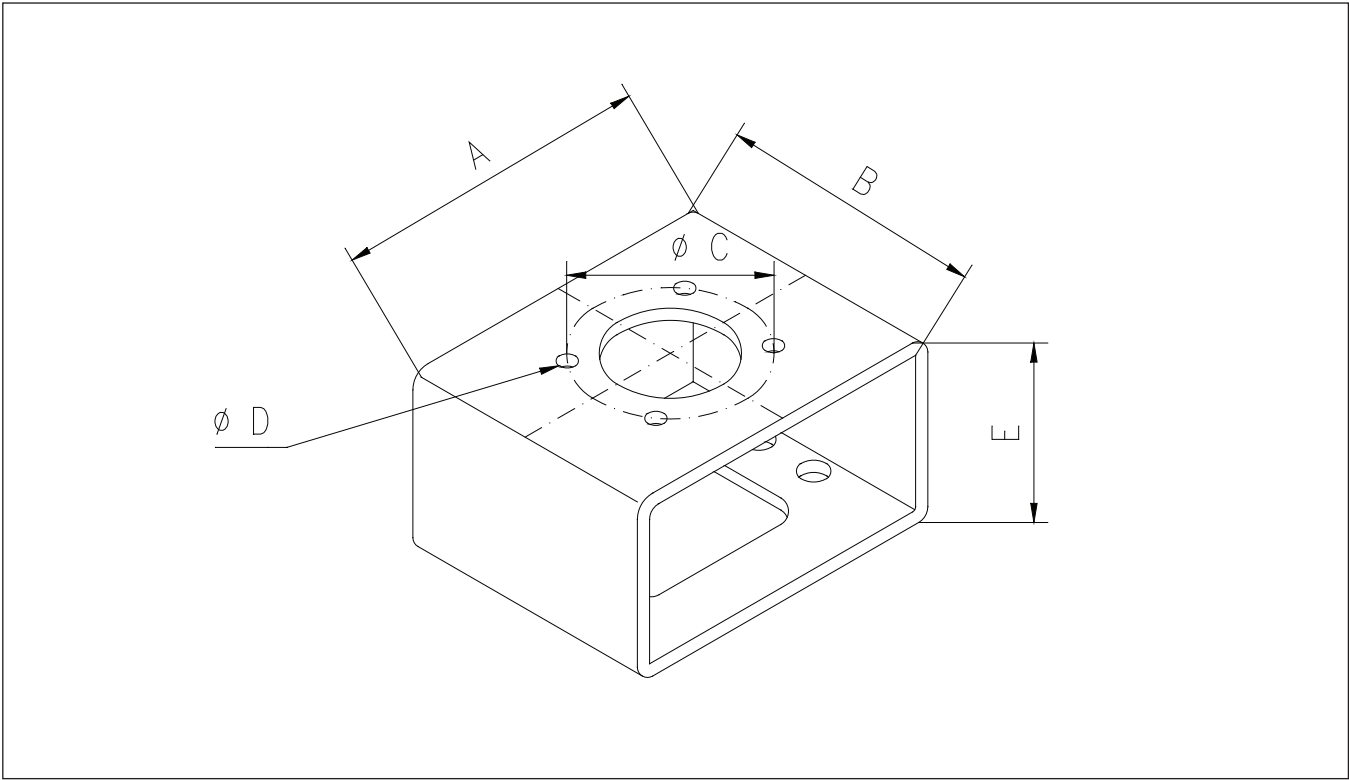
TRI-CON

MODELL / MODEL I1 (DOPPELFLANSCH / DOUBLE FLANGE / ISO 5752 Serie 13) GEWINDEABMESSUNGEN / THREAD DIMENSIONS DN 80 / 3" – DN 1000 / 40" ANSI150/300/600

DN Size	ANSI	Baulänge Face to face	Gewinde im Spindelbereich Thread in shaft area Pro Seite / per side	Schraubenlöcher Bolt holes Pro Seite / per side
80 / 3"	150	114	-	4 x Ø 19,1
	300	114	4 x ¾" – 10UNC / 28mm tief / deep	4 x Ø 22,4
	600	180	4 x ¾" – 10UNC / 28mm tief / deep	4 x Ø 22,4
100 / 4"	150	127	4 x 5/8" – 11UNC / 20mm tief / deep	4 x Ø 19,1
	300	127	4 x ¾" – 10UNC / 25mm tief / deep	4 x Ø 22,4
	600	190	4 x 7/8" – 9UNC / 32mm tief / deep	4 x Ø 25
150 / 6"	150	140	4 x ¾" – 10UNC / 24mm tief / deep	4 x Ø 22,4
	300	140	4 x ¾" – 10UNC / 29mm tief / deep	8 x Ø 22,4
	600	210	4 x 1" – 8UNC / 40mm tief / deep	8 x Ø 28,6
200 / 8"	150	152	4 x ¾" – 10UNC / 24mm tief / deep	4 x Ø 22,4
	300	152	4 x 7/8" – 9UNC / 30mm tief / deep	8 x Ø 25,4
	600	230	4 x 1 1/8" – 8UN / 45mm tief / deep	8 x Ø 31,8
250 / 10"	150	165	4 x 7/8" – 9UNC / 34mm tief / deep	8 x Ø 25,4
	300	165	4 x 1" – 8UNC / 40mm tief / deep	12 x Ø 28,4
	600	250	4 x 1 1/4" – 8UN / 47mm tief / deep	12 x Ø 35,1
300 / 12"	150	178	4 x 7/8" – 9UNC / 26mm tief / deep	8 x Ø 25,4
	300	178	4 x 1 1/8" – 8UN / 30mm tief / deep	12 x Ø 31,8
	600	270	4 x 1 1/4" – 8UN / 47mm tief / deep	16 x Ø 35
350 / 14"	150	190	4 x 1" – 8UNC / 38mm tief / deep	8 x Ø 28,4
	300	190	4 x 1 1/8" – 8UN / 35mm tief / deep	16 x Ø 31,8
	600	290	4 x 1 3/8" – 8UN / 52mm tief / deep	16 x Ø 38,1
400 / 16"	150	216	4 x 1" – 8UNC / 38mm tief / deep	12 x Ø 28,4
	300	216	4 x 1 1/4" – 8UN / 35mm tief / deep	16 x Ø 35,1
	600	310	4 x 1 1/2" – 8UN / 57mm tief / deep	16 x Ø 41,1
450 / 18"	150	222	4 x 1 1/8" – 8UN / 43mm tief / deep	12 x Ø 31,8
	300	222	4 x 1 1/4" – 8UN / 47mm tief / deep	20 x Ø 35
	600	330	4 x 1 5/8" – 8UN / 62mm tief / deep	16 x Ø 44,5
500 / 20"	150	229	4 x 1 1/8" – 8UN / 43mm tief / deep	16 x Ø 32
	300	229	4 x 1 1/4" – 8UN / 48mm tief / deep	20 x Ø 35
	600	350	4 x 1 5/8" – 8UN / 62mm tief / deep	20 x Ø 44,5
600 / 24"	150	267	4 x 1 1/4" – 8UN / 50mm tief / deep	16 x Ø 35
	300	267	4 x 1 1/2" – 8UN / 57mm tief / deep	20 x Ø 41
	600	390	4 x 1 7/8" – 8UN / 71 mm tief / deep	20 x Ø 50,8
700 / 28"	150	292	4 x 1 1/4" – 8UN / 47mm tief / deep	24 x Ø 35
	300	292	4 x 1 5/8" – 8UN / 55mm tief / deep	24 x Ø 44,5
	600	430	8 x 2" – 8UN / 76mm tief / deep	20 x Ø 53,8
750 / 30"	150	318	4 x 1 1/4" – 8UN / 47mm tief / deep	24 x Ø 35
	300	318	4 x 1 3/4" – 8UN / 47mm tief / deep	24 x Ø 47,8
	600	470	4 x 2" – 8UN / 75mm tief / deep	24 x Ø 53,8
800 / 32"	150	318	4 x 1 1/2" – 8UN / 43mm tief / deep	24 x Ø 41,1
	300	318	4 x 1 7/8" – 8UN / 70mm tief / deep	24 x Ø 50,8
900 / 36"	150	330	4 x 1 1/2" – 8UN / 57mm tief / deep	28 x Ø 41,1
	300	330	4 x 2" – 8UN / 80mm tief / deep	28 x Ø 53,8
	600	510	8 x 2 1/2" – 8UN / 96mm tief / deep	20 x Ø 66,5
1000 / 40"	150	410	4 x 1 1/2" – 8UN / 57mm tief / deep	32 x Ø 41,1
	300	410	4 x 1 5/8" – 8UN / 62mm tief / deep	28 x Ø 44,5

TRI-CON

F – Anschluss Montagebrücke / F – Connection Mounting Bracket



ABMESSUNGEN / DIMENSIONS IN MM

DN / SIZE 50 2"	F 05	F 07	F 10	F 12
A	160	160	160	160
B	100	100	120	120
C	50	70	102	125
D	7	9	11	13
E	80	80	80	80

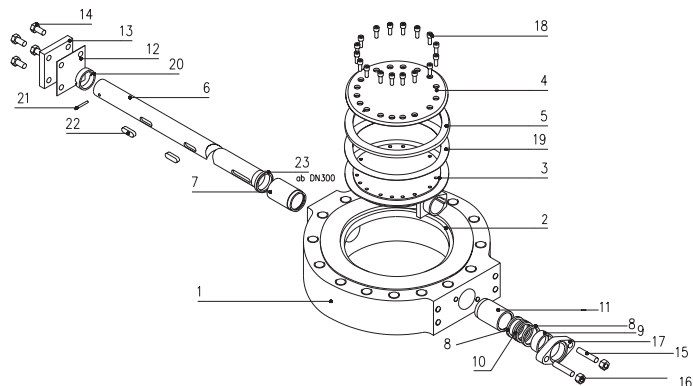
DN / SIZE 65 - 125 2,5" - 5"	F 07	F 10	F 12	F 14
A	200	200	200	200
B	100	120	120	150
C	70	102	125	140
D	9	11	13	17
E	80	80	80	80

DN / SIZE 150 6"	F 10	F 12	F 14	F 16
A	200	200	200	200
B	120	120	150	170
C	102	125	140	165
D	11	13	17	21
E	80	80	80	80

DN / SIZE 200 - 300 8" - 12"	F 10	F 12	F 14	F 16
A	220	220	220	220
B	200	200	200	200
C	102	125	140	165
D	11	13	17	21
E	120	120	120	120

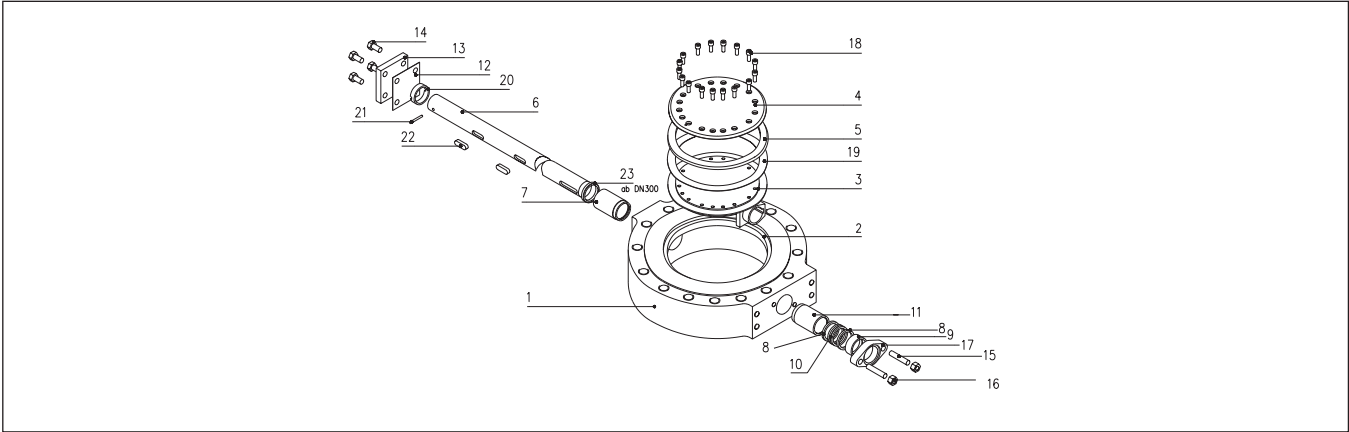
DN / SIZE 350 - 600 14" - 24"	F 14	F 16	F 25	F 30
A	300	300	300	400
B	230	230	300	400
C	140	165	254	298
D	17	21	8 x 17	8 x 21
E	150	150	150	200

DN / SIZE 700 - 900 28" - 36"	F 30	F 35
A	400	470
B	400	420
C	298	356
D	8 x 21	8 x 32
E	200	200



Pos.	Bauteil	Stahl Ausführung	Edelstahl Ausführung
1	Gehäuse	GP240GH / P265GH	1.4552 / 1.4571 / 1.4408
2	Sitz [Optional]	1.4571 [Stellite]	1.4552 / 1.4571 / 1.4408 [Stellite]
3	Scheibe	GP240GH / C 22.8	1.4552 / 1.4571 / 1.4408
4	Klemmring	P265GH	1.4571
5	Lamellendichtung [Optional]	1.4571 / Graphit 1.4571 / Volledelstahl	1.4571 / Graphit 1.4571 / Volledelstahl
6	Welle	1.4057	1.4057
7	Untere Lagerbuchse [Optional]	1.4305 hartverchromt (spezielle Lagervorabdichtung)	1.4305 hartverchromt (spezielle Lagervorabdichtung)
8	Kammerungsring	Kohlefasergeflecht	Kohlefasergeflecht
9	Stopfbuchse	1.4305	1.4571
10	Packungsring	Graphit	Graphit
11	Obere Lagerbuchse [Optional]	1.4305 hartverchromt (spezielle Lagervorabdichtung)	1.4305 hartverchromt (spezielle Lagervorabdichtung)
12	Deckeldichtung	Graphit	Graphit
13	Deckel	P265GH	1.4571
14	Deckelschrauben	A2 - 70	A4 - 70
15	Gewindebolzen	A2 - 70	A4 - 70
16	Mutter	A2 - 70	A4 - 70
17	Stopfbuchsbrille	P265GH / 1.4408	1.4408 / 1.4571
18	Klemmringschraube	A2 - 70	A4 - 70
19	Abschlusssdichtung	Graphit	Graphit
20	Haltering	1.4112 gehärtet	1.4112 gehärtet
21	Stift	1.4571	1.4571
22	Passfeder	1.4571	1.4571
23	Gleitring	1.4112 gehärtet	1.4571

Pos.	Part	Carbon Steel Design	Stainless Steel Design
1	Body	GP240GH / P265GH	1.4552 / 1.4571 / 1.4408
2	Body Seat [Optional]	1.4571 [Stellite]	1.4552 / 1.4571 / 1.4408 [Stellite]
3	Disc	GP240GH / C 22.8	1.4552 / 1.4571 / 1.4408
4	Clamp Ring	P265GH	1.4571
5	Laminated Seal [Optional]	1.4571 / Graphite [1.4571 / solid lamination]	1.4571 / Graphite [1.4571 / solid lamination]
6	Shaft	1.4057	1.4057
7	Lower Bearing Bush [Optional]	1.4305 hard chromed (zero leakage bearing)	1.4305 hard chromed (zero leakage bearing)
8	Gland Packing	Carbon Fibre	Carbon Fibre
9	Gland Follower	1.4305	1.4571
10	Gland Packing	Graphite	Graphite
11	Upper Bearing Bush [Optional]	1.4305 hard chromed (zero leakage bearing)	1.4305 hard chromed (zero leakage bearing)
12	Cover Seal	Graphite	Graphite
13	Cover	P265GH	1.4571
14	Cover Screw	A2 - 70	A4 - 70
15	Gland Adjust. Stud	A2 - 70	A4 - 70
16	Gland Adjust. Nut	A2 - 70	A4 - 70
17	Gland Plate	P265GH / 1.4408	1.4408 / 1.4571
18	Clamp Ring Screw	A2 - 70	A4 - 70
19	Gasket	Graphite	Graphite
20	Shaft Retainer	1.4112 hardened	1.4112 hardened
21	Cross Pin	1.4571	1.4571
22	Disc Drive Key	1.4571	1.4571
23	Thrust Ring	1.4112 hardened	1.4571



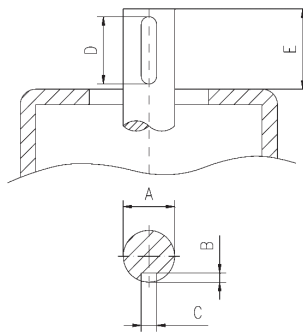
Pos.	Bauteil	Stahl Ausführung	Edelstahl Ausführung
1	Gehäuse	ASTM A216 WCB / A516 Gr. 70	ASTM A351 CF8M / CF8C / A276 Gr. 316 Ti
2	Sitz (Optional)	ASTM A276 Gr. 316 Ti (Stellite)	ASTM A351 CF8M / CF8C / A276 Gr. 316 Ti (Stellite)
3	Scheibe	ASTM A216 WCB / A105	ASTM A351 CF8M / A276 Gr. 316 Ti
4	Klemmring	ASTM A516 Gr. 60	ASTM A276 Gr. 316 Ti
5	Lamellendichtung (Optional)	ASTM A276 Gr. 316 Ti / Graphit Volledelstahl	ASTM A276 Gr. 316 Ti / Graphit Volledelstahl
6	Welle	ASTM A276 Type 431	ASTM A276 Type 431
7	Untere Lagerbuchse (Optional)	ASTM A582 Type 303 hartverchromt (spezielle Lagervorabdichtung)	ASTM A582 Type 303 hartverchromt (spezielle Lagervorabdichtung)
8	Kammerungsring	Kohlefasergeflecht	Kohlefasergeflecht
9	Stopfbuchse	ASTM A582 Type 303	ASTM A276 Gr. 316 Ti
10	Packungsring	Graphit	Graphit
11	Obere Lagerbuchse (Optional)	ASTM A582 Type 303 hartverchromt (spezielle Lagervorabdichtung)	ASTM A582 Type 303 hartverchromt (spezielle Lagervorabdichtung)
12	Deckeldichtung	Graphit	Graphit
13	Deckel	ASTM A216 WCB / A516 Gr. 60	ASTM A351 CF8M / A276 Gr. 316 Ti
14	Deckelschrauben	ASTM A193 Gr. B8	ASTM A193 Gr. B8
15	Gewindebolzen	ASTM A193 Gr. B8	ASTM A193 Gr. B8
16	Mutter	ASTM A194 Gr. 8	ASTM A194 Gr. 8
17	Stopfbuchsbrille	ASTM A216 WCB / A516 Gr. 60 / CF8M	ASTM A351 CF8M / A276 Gr. 316Ti
18	Klemmringschraube	ASTM A193 Gr. B8	ASTM A193 Gr. B8
19	Abschlussdichtung	Graphit	Graphit
20	Haltering	ASTM A582 Type 303 hartverchromt / ASTM A276 Type 440 B gehärtet	ASTM A276 Gr. 316 Ti hartverchromt / ASTM A276 Type 440 B gehärtet
21	Stift	ASTM A276 Gr. 316 Ti	ASTM A276 Gr. 316 Ti
22	Passfeder	ASTM A276 Gr. 316 Ti	ASTM A276 Gr. 316 Ti
23	Gleitring	ASTM A276 Type 440 B gehärtet	ASTM A276 Gr. 316 Ti

Pos.	Part	Carbon Steel Design	Stainless Steel Design
1	Body	ASTM A216 WCB / A516 Gr. 70	ASTM A351 CF8M / CF8C / A276 Gr. 316 Ti
2	Body Seat (Optional)	ASTM A276 Gr. 316 Ti (Stellite)	ASTM A351 CF8M / CF8C / A276 Gr. 316 Ti (Stellite)
3	Disc	ASTM A216 WCB / A105	ASTM A351 CF8M / A276 Gr. 316 Ti
4	Clamp Ring	ASTM A516 Gr. 60	ASTM A276 Gr. 316 Ti
5	Laminated Seal (Optional)	ASTM A276 Gr. 316 Ti / Graphite (solid lamination)	ASTM A276 Gr. 316 Ti / Graphite (solid lamination)
6	Shaft	ASTM A276 Type 431	ASTM A276 Type 431
7	Lower Bearing Bush (Optional)	ASTM A582 Type 303 hard chromed (zero leakage bearing)	ASTM A582 Type 303 hard chromed (zero leakage bearing)
8	Gland Packing	Carbon Fibre	Carbon Fibre
9	Gland Follower	ASTM A582 Type 303	ASTM A276 Gr. 316 Ti
10	Gland Packing	Graphite	Graphite
11	Upper Bearing Bush (Optional)	ASTM A582 Type 303 hard chromed (zero leakage bearing)	ASTM A582 Type 303 hard chromed (zero leakage bearing)
12	Cover Seal	Graphite	Graphite
13	Cover	ASTM A216 WCB / A516 Gr. 60	ASTM A351 CF8M / A276 Gr. 316 Ti
14	Cover Screw	ASTM A193 Gr. B8	ASTM A193 Gr. B8
15	Gland Adjust. Stud	ASTM A193 Gr. B8	ASTM A193 Gr. B8
16	Gland Adjust. Nut	ASTM A194 Gr. 8	ASTM A194 Gr. 8
17	Gland Plate	ASTM A216 WCB / A516 Gr. 60 / CF8M	ASTM A351 CF8M / A276 Gr. 316Ti
18	Clamp Ring Screw	ASTM A193 Gr. B8	ASTM A193 Gr. B8
19	Gasket	Graphite	Graphite
20	Shaft Retainer	ASTM A582 Type 303 hard chromed / ASTM A276 Type 440 B hardened	ASTM A276 Gr. 316 Ti hard chromed / ASTM A276 Type 440 B hardened
21	Cross Pin	ASTM A276 Gr. 316 Ti	ASTM A276 Gr. 316 Ti
22	Disc Drive Key	ASTM A276 Gr. 316 Ti	ASTM A276 Gr. 316 Ti
23	Thrust Ring	ASTM A276 Type 440 B hardened	ASTM A276 Gr. 316 Ti

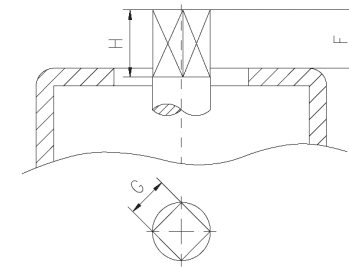
MÖGLICHE WELLENENDEN / POSSIBLE SHAFT ENDS PN 10 – 40 / ANSI 150 – 300

DN / Size	50 2"	65 2 1/2"	80 3"	100 4"	125 5"	150 6"	A1 150 / 6" ANSI 150	200 8"	A1 200 / 8" ANSI 150	250 10"	300 12"	350 14"	400 16"	450 18"	500 20"	600 24"	700 28"	750 30"	800 32"	900 36"
A	16	20	20	22	25	32	25	38	32	40	45	55	65	70	75	90	110	110	110	110
B	3	3,5	3,5	3,5	4	5	4	5	5	5	5,5	6	7	7,5	7,5	9	10	10	10	10
C	5	6	6	6	8	10	8	10	10	12	14	16	18	20	20	25	28	28	28	28
D	18	28	28	28	45	36	36	45	45	45	50	90	90	90	100	100	140	140	140	140
E	20	31	31	27	47	40	40	48	48	49	49	81	80	80	90	105	129	140	140	139
F	20	20	20	20	25	27	-	29	-	29	40	-	-	-	-	-	-	-	-	-
G	14	14	14	17	17	22	-	27	-	27	32	-	-	-	-	-	-	-	-	-
H	20	20	20	20	27	28	-	30	-	30	40	-	-	-	-	-	-	-	-	-

Standard



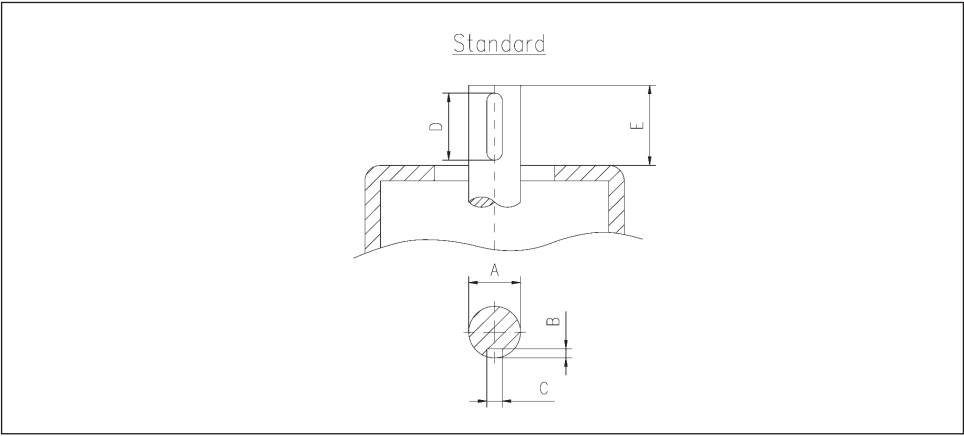
Vierkant Option / Square Option



TRI-CON

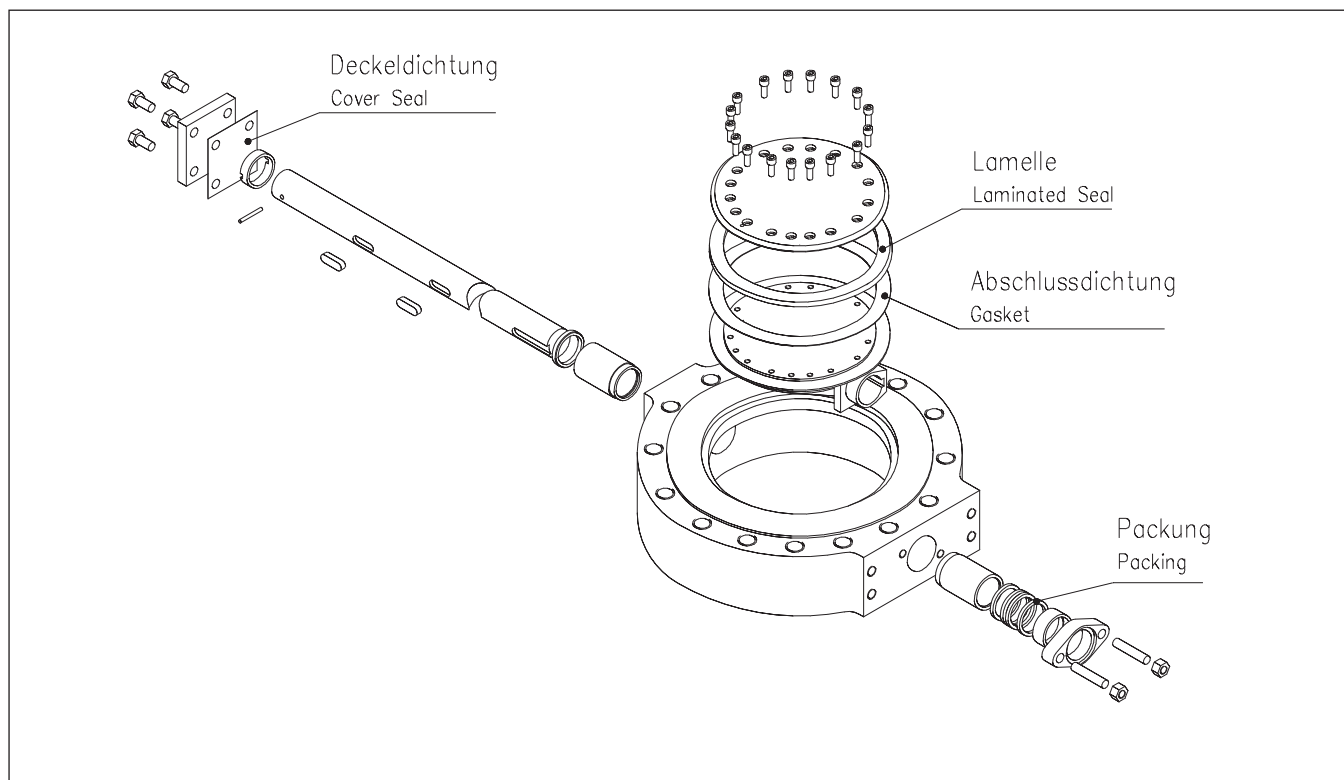
WELLENENDEN / BARE SHAFT PN 63 / PN 100 / ANSI 600

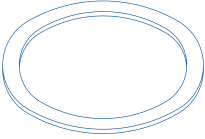
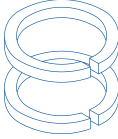
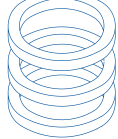
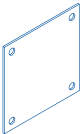
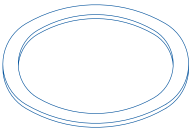
DN / Size	80 3"	100 4"	125 5"	150 6"	200 8"	250 10"	300 12"	350 14"	400 16"	450 18"	500 20"	600 24"	700 28"	750 30"	900 36"
A	20	25	25	38	45	55	55	65	90	90	110	135	160	140	200
B	3,5	4	4	5	5,5	6	6	7	9	9	10	12	13	12	15
C	6	8	8	10	14	16	16	18	25	25	28	36	40	36	45
D	50	50	50	50	90	90	100	90	110	110	125	160	180	160	220
E	52	46	52	53	93	94	100	92	113	115	128	174	176	171	220



TRI-CON

ERSATZTEILPAKET SPARE PARTS KIT



	Lamelle Laminated Seal
	Packung (Schnüre, Ringe)
	Packing (Ropes, Rings)
  	Deckeldichtung Cover Seal
	Abschlussdichtung Gasket

Material / Ausführung / Stückzahl in Abhängigkeit zur gelieferten Absperrklappe
Material / type / quantity in dependence to the delivered valve

ZERTIFIKATE / CERTIFICATES

- BAM-Zulassung für Sauerstoff / BAM-Approval for Oxygen
- TA-Luft gem. / acc. to VDI 2440
- DIN EN ISO 9001:2008
- ISO 15848-1:2006
- Fire Safe gem. / acc. to API 607
- Fire Safe gem. / acc. to British Standard B.S.6755
- Fire Safe gem. / acc. to DIN EN ISO 10497
- CE-Zertifikat / CE-Certificate gem. / acc. to 97/23/EG
- SIL3
- GOST
- RTN
- CRN

