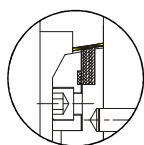
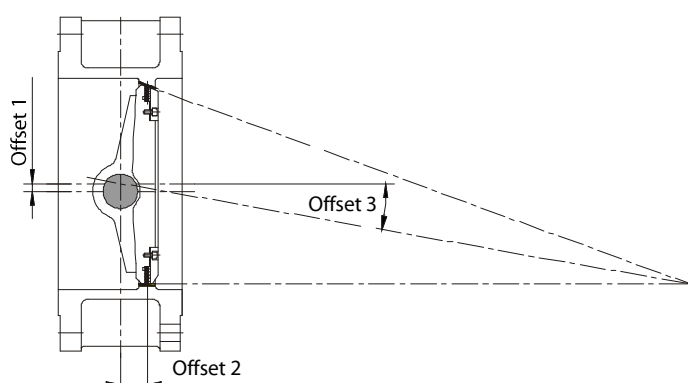


V140 Series (Wafer)/ V142 Series (Lug) Tripple Eccentric High Performance Buterfly Valves

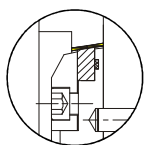
Proval V140 Series Tripple Eccentric Valves are new generation long-life and energy saving type valves. The sealing is metal to metal which could be changed to be seal ring to metal or composite graphite to metal. The tripple eccentric design concept ensures perfect tightness even under high temperature and high pressures flow conditions.

Three offsets eliminates any rubbing throughout rotation and provides very low torque figures on valves.

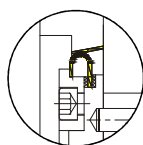
Main applications are oil & gas upstream and downstream, pipeline and storage, supply and coal, ptochemical, desalination plants, general energy and mining applications.



Multiple Arrangement
Metal Hard Sealed Structure



Metal Resilient
Sealed Structure



U-Metal
Sealed Structure

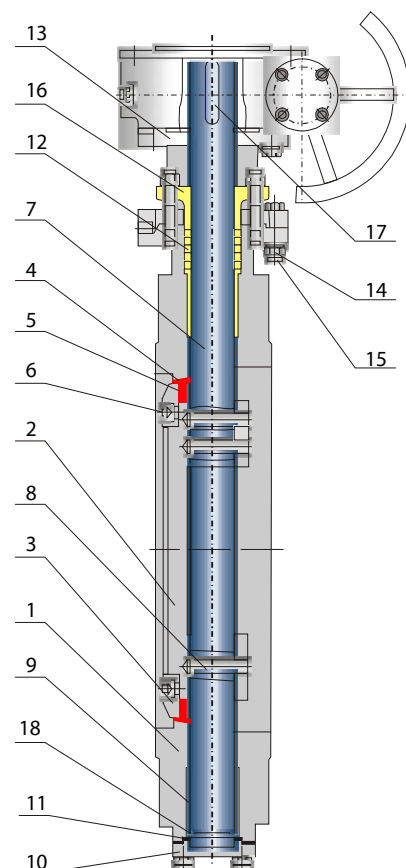
Applicable Standards,

Design & Manufacturing : API607 & MSS SP-67
 Connection Dimensions : ASME B16.5, ASME B16.47
 Face to Face : API 609, MSS SP-67, ISO 5752
 Inspection and Test : ISO5208, API 598
 Working Pressure : PN16/25/40/64/100
 CL150/300/600/900

No	Part Name	No	Part Name
1	Body	10	Bottom End Cover
2	Disc	11	Gasket
3	Clamp	12	Packing
4	Seat	13	Yoke
5	Ring	14	Nut
6	Screw	15	Bolt
7	Stem	16	Packing Retainer
8	Check Pin	17	Flat key
9	Bushing	18	Bisect Rings

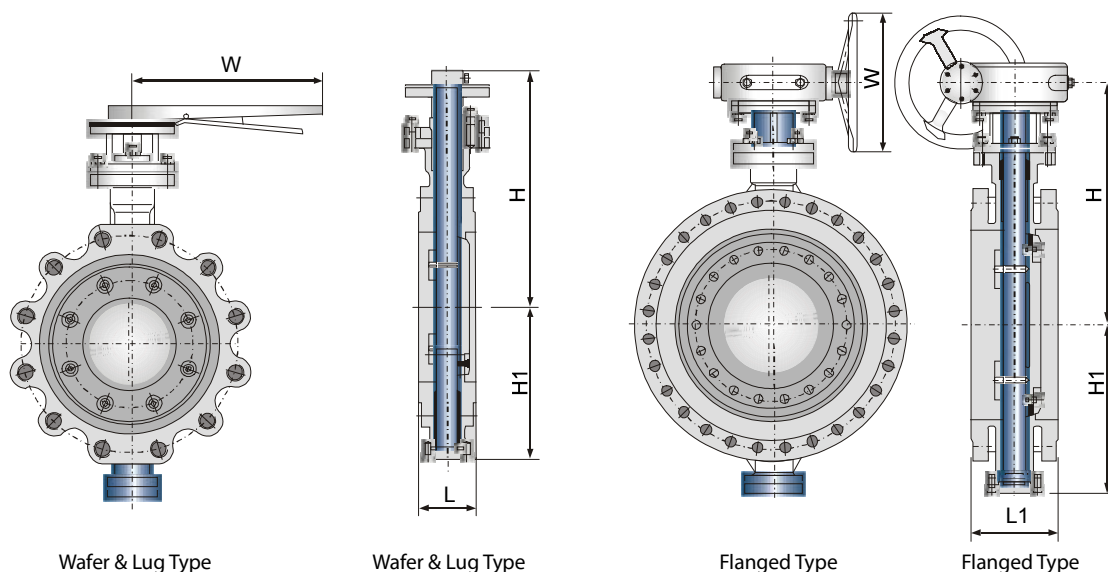
Available Materials of Parts

Body	WCB/LCB/CF8M/CF8/CF3M/CF3/WC6/WC9/CD3NM/Duplex
Disc	WCB+ENP/LCB/CF8/CF8M/CF3/CF3M/WC6/WC9/CD3MN/Duplex
Seat	STL/13Cr/316/316L/304/304L/F316L/Monel/F51
Stem	F6a/17-4PH/F304/F316/F304L/F316L/F51/Monel
Ring	304+Flexible Graphite/316+Flexible Graphite
Bolt	B7M/B8M/L7M/B16M
Nut	2HM/8M/7M/4M
Clamp	A36+ENP/Stainless Steel Series
Bushing Sleeve	C95200/C95500/SS+304
Gasket	Flexible Graphite+SS304 / Flexible Graphite+SS316
Packing	Flexible Graphite





Dimensions



Wafer & Lug Type

Wafer & Lug Type

Flanged Type

Flanged Type

Dimensional datas

NPS inch	DN	L mm	L1 mm	H1 mm	H mm	W mm	MT _(Wafer) kg	T N.m	NPS inch	DN	L mm	L1 mm	H1 mm	H mm	W mm	MT _(Wafer) kg	T N.m
ANSI Class 150Lb																	
2	50	43	108	112	225	220	10	55	★16	400	102	216	352	540	600	160	4128
3	80	48	114	126	255	270	12	226	★18	450	114	222	386	585	600	200	5511
4	100	54	127	146	285	270	16	325	★20	500	127	229	415	642	600	270	7190
★6	150	57	140	170	332	360	25	615	★24	600	154	267	482	693	600	420	7814
★8	200	64	152	218	386	300	36	902	★30	750	165	318	622	868	600	700	16450
★10	250	71	165	245	427	300	60	1278	★36	900	200	330	673	1000	700	1050	23501
★12	300	81	178	290	498	500	80	2628	★42	1050	251	410	755	1058	700	1500	31963
★14		92	190	316	510	500	120	3276	★48	1200	276	470	866	1278	700	1845	47000

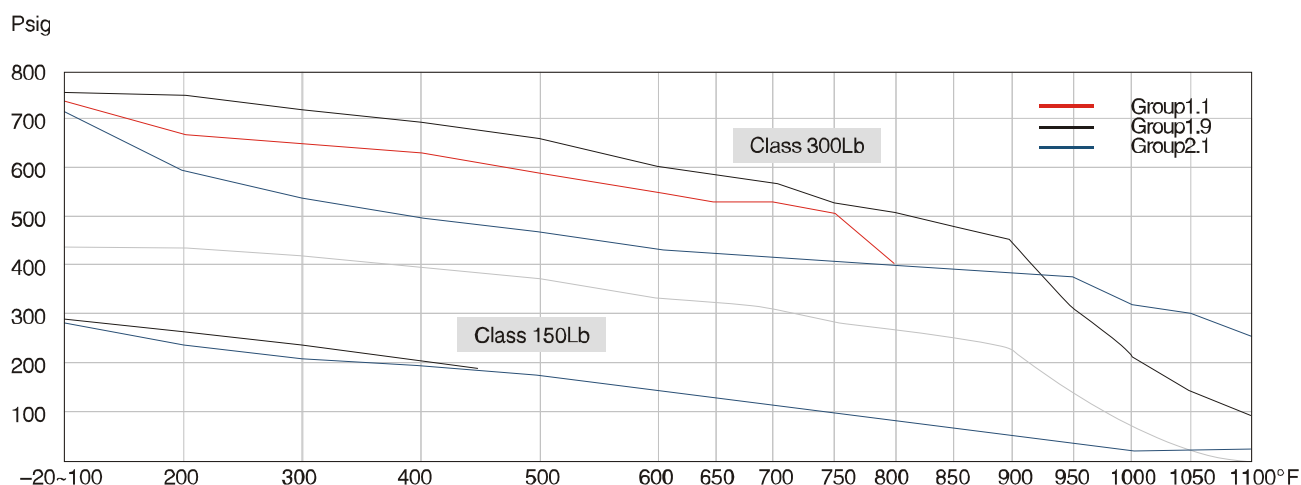
Dimensional datas

NPS inch	DN	L mm	L1 mm	H1 mm	H mm	W mm	MT _(Wafer) kg	T N.m	NPS inch	DN	L mm	L1 mm	H1 mm	H mm	W mm	MT _(Wafer) kg	T N.m
ANSI Class 300Lb																	
—	50	—	—	—	—	—	—	—	★16	400	133	216	392	582	600	185	8152
3	80	48	114	130	265	270	15	352	★18	450	149	222	420	651	600	230	10223
4	100	54	127	150	290	270	19	514	★20	500	159	229	465	704	600	330	13469
★6	150	59	140	185	355	300	35	1073	★24	600	181	267	532	780	600	460	22827
★8	200	73	152	236	418	500	42	1954	★30	750	—	318	642	908	700	1280	39726
★10	250	83	165	273	456	500	68	2453	★36	900	—	330	703	1108	700	2150	63452
★12	300	92	178	313	498	600	88	3260	★42	1050	—	410	785	1258	700	3150	85326
★14		117	190	338	547	600	144	5405	★48	1200	—	470	906	1478	1000	4885	126742

Dimensional datas

NPS inch	DN	L mm	L1 mm	H1 mm	H mm	W mm	MT _(Wafer) kg	T N.m	NPS inch	DN	L mm	L1 mm	H1 mm	H mm	W mm	MT _(Wafer) kg	T N.m
ANSI Class 600Lb																	
—	—	—	—	—	—	—	—	—	★12	300	140	270	378	690	600	398	14236
3	80	54	180	152	305	270	38	575	★14	350	155	290	412	715	600	535	16947
4	100	64	190	193	338	360	58	1043	★16	400	178	310	450	823	600	780	20473
★6	150	78	210	248	416	500	120	3673	★18	450	200	330	512	897	600	898	25218
★8	200	102	230	295	490	600	154	4520	★20	500	216	350	563	1094	700	1266	31861
★10	250	117	250	342	580	600	297	7061	★24	600	232	390	622	1186	700	1622	46095

ANSI Class 150/300 Lbs Pressure-Temperature Ratings



ASME B16.34 Maximum Allowable Non-Shock Pressure

Psig

TEMPERATURE		ASTM MATERIALS															
		ANSI Class 150Lb								ANSI Class 300Lb							
		Group 1.1	Group 1.2	Group 1.3	Group 1.9	Group 1.10	Group 1.13	Group 2.1	Group 2.2	Group 1.1	Group 1.2	Group 1.3	Group 1.9	Group 1.10	Group 1.13	Group 2.1	Group 2.2
-20~100	-20~38	285	290	265	230	290	290	275	275	740	750	695	750	750	750	720	720
200	93	260	260	250	230	260	260	230	235	670	750	655	750	750	745	600	620
300	149	230	230	230	230	230	230	205	215	655	730	640	720	720	715	540	560
400	204	200	200	200	200	200	200	190	195	635	705	620	695	695	705	495	515
500	260	170	170	170	170	170	170	170	170	600	665	585	665	665	665	465	480
600	316	140	140	140	140	140	140	140	140	550	605	535	605	605	605	435	450
650	343	125	125	125	125	125	125	125	125	535	590	525	590	590	590	430	445
700	371	110	110		110	110	110	110	110	535	570		570	570	570	425	430
750	399	95	95		95	95	95	95	95	505	505		530	530	530	415	425
800	427	80	80		80	80	80	80	80	410	410		510	510	510	405	420
850	454				65	65	65	65	65				485	485	485	395	420
900	482				50	50	50	50	50				450	450	370	390	415
950	510				35	35	35	35	35				320	375	275	380	385
1000	538				20	20	20	20	20				215	260	200	320	350
1050	566				20	20	20	20	20				145	175	145	310	345
1100	593				20 ^{a)}	20 ^{a)}	20 ^{a)}	20 ^{a)}	20 ^{a)}				95	110	100	255	305

TEST PRESSURE BY API 598

Hydrostatic shell test	450	450	400	450	450	450	425	425	1125	1125	1050	1125	1125	1125	1100	1100
Hydrostatic seal test	315	320	295	320	320	320	305	305	815	825	765	825	825	825	795	795
Air seal test	80 ± 20								80 ± 20							

Metric conversions by API STD 2564 pressure: 1psig=0.06894757 bar=0.006894757 MPa temperature: °C=(5/9)°F-32

ASME B16.34 Materials Group			
Group 1.1	A105 ^{e)}	A216-WCB ^{e)}	
Group 1.2	A216-WCC ^{c)}	A352-LCC ^{a)}	
Group 1.3	A352-LCB ^{a)}		
Group 1.9	A217-WC6 ^{d)}		
Group 1.10	A217-WC9 ^{d)}		
Group 1.13	A217-C5		
Group 2.1	A182-F304	A351-CF8	A351-CF3 ^{b)}
Group 2.2	A182-F316	A352-CF8M	A351-CF3M ^{c)}

a). Not to be used over 650° F (343°C).

b). Not to be used over 650° F (427°C).

c). Not to be used over 650° F (538°C).

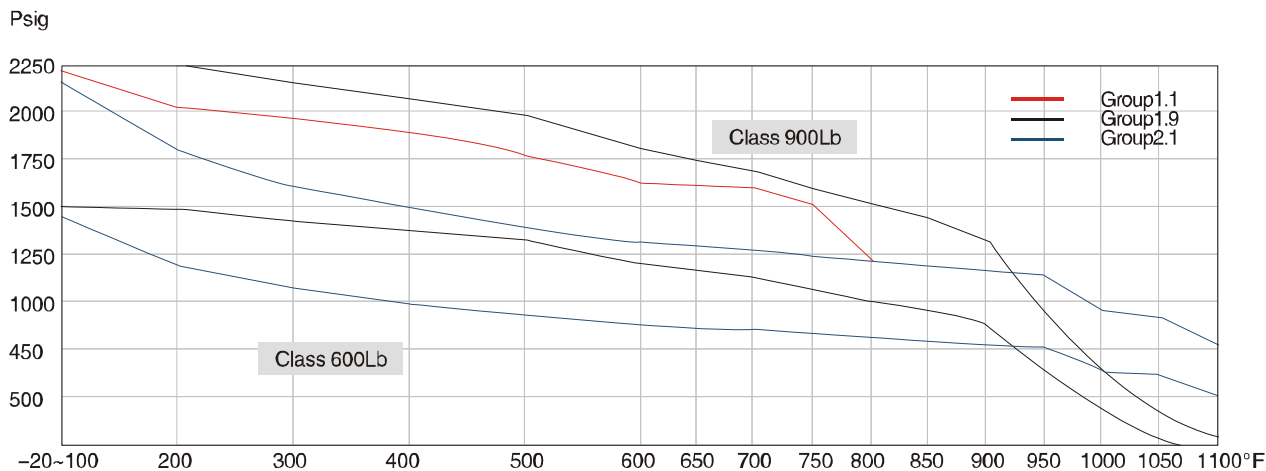
d). Not to be used over 650° F (593°C).

e). Permissible, but not recommended for prolonged use above 800° F (427°C).

f). For welding end valve only, flanged end rating terminates at 1000° F (538°C).



ANSI Class 600/900 Lbs Pressure-Temperature Ratings



ASME B16.34 Maximum Allowable Non-Shock Pressure

Psig

TEMPERATURE		ASTM MATERIALS															
		ANSI Class 600Lb								ANSI Class 900Lb							
°F	°C	Group 1.1	Group 1.2	Group 1.3	Group 1.9	Group 1.10	Group 1.13	Group 2.1	Group 2.2	Group 1.1	Group 1.2	Group 1.3	Group 1.9	Group 1.10	Group 1.13	Group 2.1	Group 2.2
-20~100	-20~38	1480	1500	1390	1500	1500	1500	1440	1440	2220	2250	2085	2250	2250	2250	2160	2160
200	93	1350	1500	1315	1500	1500	1490	1200	1240	2025	2250	1970	2250	2250	2235	1800	1860
300	149	1315	1455	1275	1445	1455	1430	1080	1120	1970	2185	1915	2165	2185	2150	1620	1680
400	204	1270	1410	1235	1385	1410	1410	995	1025	1900	2115	1850	2080	2115	2115	1490	1540
500	260	1200	1330	1165	1330	1330	1330	930	955	1795	1995	1745	1995	1995	1995	1395	1435
600	316	1095	1210	1065	1210	1210	1210	875	1640	1640	1815	1600	1815	1815	1815	1310	1355
650	343	1075	1175	1045	1175	1175	1175	860	1610	1610	1765	1570	1765	1765	1765	1290	1330
700	371	1065	1135		1135	1135	1135	850	1600	1600	1705		1705	1705	1705	1275	1305
750	399	1010	1010		1065	1065	1055	830	1510	1510	1510		1595	1595	1585	1245	1280
800	427	825	825		1015	1015	1015	805	1235	1235	1235		1525	1525	1525	1210	1265
850	454				975	975	965	790					1460	1460	1450	1190	1255
900	482				900	900	740	780					1350	1350	1110	1165	1245
950	510				640	755	550	765					955	1130	825	1145	1160
1000	538				430	520	400	640					650	780	595	965	1050
1050	566				290	350	290	615					430	525	430	925	1030
1100	593				190	220	200	515					290	330	300	770	915

TEST PRESSURE BY API 598

Hydrostatic shell test	2225	2250	2100	2250	2250	2250	2175	3350	3350	3375	3150	3375	3375	3375	3250	3250	3250
Hydrostatic seal test	1630	1650	1530	1650	1650	1650	1585	2445	2445	2475	2295	2475	2475	2475	2380	2380	2380
Air seat test	80 ± 20																

Metric conversions by API STD 2504 pressure: 1 pound per square inch (psig) = 0.06894757 bar = 0.006894757 MPa temperature: °C = (5/9)°F - 32

ASME B16.34 Materials Group

Group 1.1	A105 ^{a)}	A216-WCB ^{a)}	
Group 1.2	A216-WCC ^{a)}	A352-LCC ^{a)}	
Group 1.3	A352-LCB ^{a)}		
Group 1.9	A217-WC6 ^{d)}		
Group 1.10	A217-WC9 ^{d)}		
Group 1.13	A217-C5		
Group 2.1	A182-F304	A351-CF8	A351-CF3 ^{b)}
Group 2.2	A182-F316	A352-CF8M	A351-CF3M ^{c)}

a) Not to be used over 650°F (343°C).

b) Not to be used over 650°F (427°C).

c) Not to be used over 650°F (538°C).

b) Not to be used over 650°F (593°C).

e) Permissible, but not recommended for prolonged use above 800°F (427°C).

Certificates



CERTIFICATE

Management system as per
DIN EN ISO 9001 : 2008

In accordance with TUV NORD CERT procedures, it is hereby certified that




Doruk Endüstri Vana ve Otomasyon Sistemleri San. ve Tic. Ltd. Şti.
Mermerçiler O.S.B., 1. Cad., 32. Sok., No 10, Köşeler Köyü, Dilovası,
TR-41480 Kocaeli,
Turkey

applies a management system in line with the above standard for the following scope:

Design, manufacturing and sales of industrial valves and actuators

Certificate Registration No. 44 100 12305/2
 TUV Report No. TR 1375

Valid until 2019-03-17

Classification Date:
 at TUV NORD CERT GmbH

Istanbul: 2013-03-16

This certification was conducted in accordance with the TUV NORD CERT auditing and certification procedures and is subject to regular surveillance audits.

TUV NORD CERT GmbH


Langemannstrasse 20


45141 Essen

www.tuv-nord-cert.com



04-214 07 06 07






Appareil non électrique destiné à être utilisé en atmosphères explosibles
Directive 94/9/CE
Non electrical equipment intended for use in potentially explosive atmospheres
Directive 94/9/EC
Nicht-elektrisches Gerät zur Verwendung in explosionsgefährdeten Bereichen
Richtlinie 94/9/EG

Appareil/Equipment/Gerät : **Butterfly Valves**

Type(s)/ Type(s) / Typ(en) : **DN40 DN1200, Wafer, Lug, Flanged PN6-PN10-PN16-CL150**


Marquage/ Marking / Kennzeichnung :  **II 2 GD**

Dépositaire / Applicant / Antragssteller : **DORUK ENDÜSTRİ VANA VE OTOMASYON**
SİSTEMLERİ SAN. TİC. LTD. ŞTİ
Mermerçiler OSB, 1 Cad. 32
Sok. No: 10
T: 41480 Dilovası Kocaeli TURKEY


L'INERIS, organisme notifié et INERIS, notified body and identified INERIS, benannte Stelle Nr. 0280 nach
 identifié sous le numéro 0280, under number 0280, in accordance Article 9 der Richtlinie des Rates der
 conformément à l'article 9 de la Directive 94/9/CE du 23 94/9/EC of the 23rd March 1994, 94/9/EG vom 23. März 1994,
 Directive du Conseil 94/9/CE du 23 94/9/EC of the 23rd March 1994, 94/9/EG vom 23. März 1994,
 März 1994, accuse réception du acknowledge receipt of file besitzt den Erhalt der Unterlagen
 dossier conformément à la procédure according to the procedure described gemäß Folgens Artikel 8 b) ii) von der
 décrite à l'article 8 b) ii) de la in the article 8 b) ii) of the Directive. Richtlinie beschriebenen wurde.
 Directive.

La documentation technique The technical documentation Die besagte technische Dokumentation
 référencée PN109 is consigned under the reference wird unter der Dokumentationsnummer
 d'enregistrement n° INERIS-EQEN 027081/13. no INERIS-EQEN 027081/13. Nr. INERIS-EQEN 027081/13.
 Date de fin de validité : 2021.01.31 Validity completion date : 2022.01.31 Datum von Gültigkeitsende : 2023.01.31

Vernichtet-en-Halatte, le 2013.01.31



Le Directeur Général de l'INERIS.
 Par délégation
 T. HOUEIX
 Délégué Car: Titulaire ATEX



The Chief Executive Officer,
 By delegation
 T. HOUEIX
 Ex Certification Officer

Der Generaldirektor der INERIS.
 im Auftr.,
 T. HOUEIX
 Beauftragter/ Beschäftigter ATEX

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