



# ABO

## SERIES 900

Class 150 // PN 6/10/16  
NPS 1¼–64 (DN 32–1600)  
Industrial applications



RESILIENT SEATED BUTTERFLY VALVES

[WWW.ABOCONTROLS.COM](http://WWW.ABOCONTROLS.COM)

# GENERAL INFORMATION

## INTRODUCTION TO SERIES 900

ABO Series 900 are premium quality, resilient seated butterfly valves designed for use in industrial applications. Whether it is potable, sewage, sea or industrial water, light chemicals, pharmaceuticals, oil or oil derivatives, sugar juice, as well as applications in the food processing industry, ABO Series 900 will provide you with long-term reliability and low maintenance requirements, all this at an affordable cost. Series 900 butterfly valves have a groove and tongue design, with double sided profiles of the liner ensuring proper alignment of the sleeve in the outer body, and a forming lobe for securing liner stability. The valve design encompasses a three-stage sealing system that yields perfect tightness. Thanks to its extended neck, the ABO Series 900 butterfly valve provides for full thermal isolation of the actuator from the media thermal impact. Further, upward movement of the stem is avoided by a security grub screw in the body neck (blow-out proof). Thanks to a 2-piece stem system, and a highly profiled disc, the ABO Series 900 achieve high Cv (Kv) values and lower pressure drops. This simple but important feature ensure that ABO Series 900 butterfly valves are much more environmentally friendly compared to regular types of butterfly valves, as they consume less energy while being operated in the system.

## GENERAL CHARACTERISTICS

- Concentric design
- Shut-off and regulating device
- Split shaft
- Pivot fixed by screw allows disassembly (demountable version)
- Long neck of the body according to heating system requirements
- Orange epoxy painting RAL 2002 – minimal thickness of 3 mil (80 microns)
- Suitable for vacuum service of 2.9 psi abs (with bonded liner)
- Safe movement of disc ensured by squared stem/disc connection
- ATEX certificate (Group II, Category 1/2 GD TX)
- Approved for gas and drinking water applications by DVGW certification

## APPLICATIONS

Butterfly valves series 900 are suited for many applications where tight shut-off is required, such as:

- Industrial processing
- Water and wastewater
- Dry bulk conveying
- Light slurry handling
- Pulp and paper
- Food and beverage
- HVAC (heating, ventilation & air conditioning)
- Non-mining environments and explosive atmospheres consisting of dust and gas (zones 0, 1, 20, 21)

## STANDARDS

### LEAK TEST:

- ANSI/FCI 70-2, Class VI
- API 598, Table 5
- ISO 5208, Rate A
- EN 12266-1, Rate A

### FACE TO FACE:

- API 609, Table 2,
- ISO 5752, Series 20
- EN 558, Series 20

### TOP FLANGE:

- ISO 5211

### CONNECTION

#### BETWEEN FLANGES:

- ASME B16.5
- ASME B16.47
- EN 1092-2

### WORKING STANDARD:

- API 609
- EN 593+A1

## TYPE DESIGNATION

9 2 4 B

### Version of body

- B – wafer
- T – lug
- U – double flanged (ISO 5752, Series 20)

### Material of disc

- 0 – Brass UNS C38000
  - 1 – Aluminum bronze UNS C95500
  - 2 – Stainless steel ASTM A351 CF8
  - 3 – Ductile iron ASTM A536 60-40-18 epoxy coated\*
  - 4 – Stainless steel ASTM A351 CF8M
  - 5 – Hastelloy®
  - 6 – High alloy stainless steel UNS N08904
  - 7 – Titanium
- \*Halar or Rilsan coating optional

### Material of seat

- 1 – NBR
  - 2 – EPDM
  - 3 – Carboxylic NBR
  - 4 – Viton® (FKM)
  - 5 – Steam silicone (MVQ)
  - 6 – Silicone (MVQ)
  - 7 – Epichlorohydrin
  - 8 – Hypalon® (CSM)
  - 9 – NBR-70-AG (Gas)
- NBR conductive

### Series name

Series 900

## MODELS

Wafer type B



Lug type T



Double flanged type U  
(ISO 5752, Series 20)  
for NPS 28–64



## PRODUCT QUALITY AND CONTROL

- ABO production facilities are certified in accordance to ISO 9001 (ISO 14001, OHSAS 18001) quality system
- Test procedures are established according to ANSI/FCI 70-2, API 598, ISO 5208, EN 12266-1
- Manufactured according to the requirements of the European Directive 2014/68/EU (PED) and applicable international standards
- All ABO valves pass pressure tests to 110% of rated pressure to ensure bubble tight shutoff
- All actuators are calibrated and cycle tested before shipment
- Material Traceability Rule – Certification is provided for all supplied valves upon customer request
- Positive Material Identification – All materials are subjected to PMI testing in order to verify Material Traceability Certificate
- Certificates – Complete list of certificates and approvals can be found at [www.abocontrols.com](http://www.abocontrols.com)

# DESIGN BENEFITS

## INTERNATIONAL STANDARD COMPATIBILITY

Top flange according to standard ISO 5211 enables direct mounting of manual operators and actuators. Longer necks of ABO butterfly valves result in insulation of ISO top flange, for protection of mounted actuator and meeting heating system requirements.

## SEAT DESIGN

The seat is anchored in the body (groove and tongue design), thus preventing its movement against the body.

## DEMOUNTABLE VALVE DESIGN

ABO Series 900 design allows for valve disassembly and easy liner replacement.

## BLOW-OUT PROOF SHAFT SYSTEM

Upward movement of the shaft is avoided by safety retainer in the body neck.

## 2-PIECE SHAFT SYSTEM

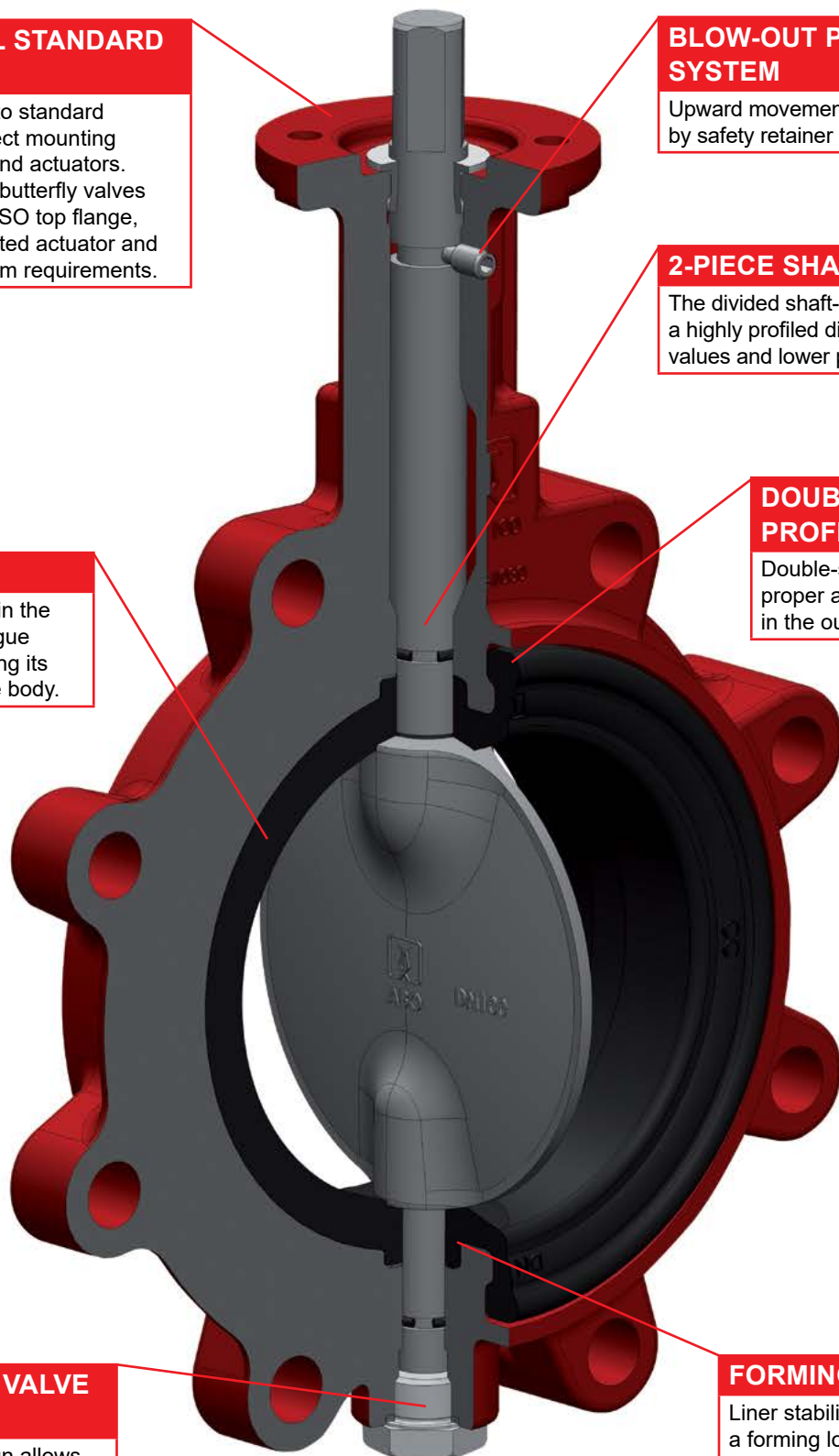
The divided shaft-pivot system with a highly profiled disc ensure high Cv (Kv) values and lower pressure drops.

## DOUBLE-SIDED PROFILES

Double-sided profiles ensure proper alignment of the sleeve in the outer body recess.

## FORMING LOBE

Liner stability is secured by a forming lobe, which fits perfectly into the relevant groove of the body.



# DESIGN BENEFITS

## 3-STAGE SEALING SYSTEM

A triple safety feature system of sealing security designed by ABO engineers provides for a 100% tight shutoff, long term product life, and a safe mode of operation in the most demanding applications.

### PRIMARY SEALING

Sealing surface of the seat in the contact area with both the stem and the pivot respectively, has a precisely defined spherical geometry, which exactly replicates the geometry of the disc.

### SECONDARY SEALING

The secondary sealing feature is being created by the stem (pivot) overlap in the relation of the seat bore diameter.

### TERTIARY SEALING

ABO Series 900 butterfly valves are equipped with safety O-rings that further enhance operational performance and reliability.

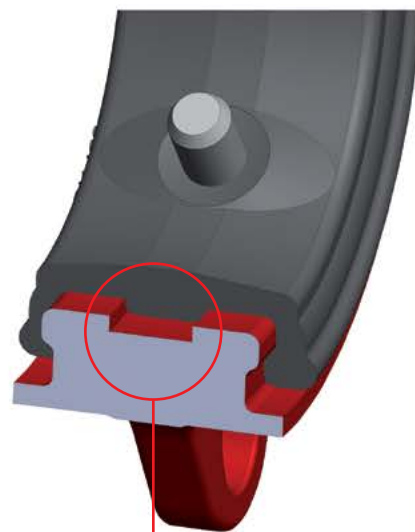
## SPOTLIGHT: OPTIONS OF SEAT ANCHORING

### GROOVE AND TONGUE VERSION

The classical premium design of groove and tongue anchoring prevents movement of the seat, yet at the same time allows for material interchangeability and easy seat replacement.

### VULCANIZED SEAT VERSION

A vulcanized seat option is available for high vacuum applications or for negative pressure conditions. For lower vacuum applications (below 3 psi abs), a glued-seat version option is also available.



*Example of groove and tongue liner anchoring whereby the forming lobe prevents liner from movement.*

## EXTERNAL COATING OPTIONS

### HIGH QUALITY EPOXY COATING

ABO standard coating is premium quality epoxy grade C2 with minimal thickness of 3 mil (80 µm).

### MARINE COATING

Marine coating for highly corrosive atmosphere especially in marine environment is an option. ISO 12944 grades C3, C4 and C5 are available.

### RILSAN 11 COATING

Rilsan 11 coating provides superb corrosion resistance. This coating option is recommended for applications such a seawater, cement, food or water service contaminated with chemicals.

### AMERLOCK COATING

Amerlock operator coating provides superior protection in sea water environment.

## SPECIAL PURPOSE VALVES

### ALUMINUM BODY VALVES FOR SWIMMING POOLS

ABO series 900 butterfly valves with aluminum body are, due to lower weight, ideal for usage in applications where plastic piping is required. This valve design is especially suitable for swimming pool water applications.

Available range:

- NPS 2–8
- 43 psi maximum working pressure
- 32°F–212°F

### ALUMINUM BRONZE BODY VALVES FOR MARINE SERVICE

ABO offers high quality resilient-seated butterfly valves fully from aluminum bronze material to meet the requirements of today's industrial/marine markets. These valves are specifically designed for onshore and offshore service where maximum product reliance is required in an extremely corrosive environment with high levels of salinity.

# MATERIALS & TECHNICAL INFORMATION

## EPDM WITH DVGW CERTIFICATION FOR DRINKING WATER

ABO Series 900 resilient seated butterfly valves are certified by the German Institute DVGW CERT GmbH for potable water service. Valves with this certification are available in sizes NPS 1¼ - 24 and represent a reliable solution for diverse applications for drinking water as well as for the waste water industry.

## EPDM WITH FDA APPROVAL FOR FOOD INDUSTRY

ABO Series 900 FDA approved black EPDM liner can be used for applications in the food industry from 14°F to 266°F. Typical applications for this series are sugar mills, beverage and malt factories.

## NBR WITH DVGW CERTIFICATION FOR GAS SERVICE

A special NBR seat certified by the German Institute DVGW CERT GmbH is available for gas and biogas applications.

## VITON® BIO LINER FOR BIODIESEL

Viton® Bio is a liner with high fluorine content (70%). It provides for excellent chemical resistance and is suitable for media such as acids, oils or biodiesel with temperatures ranging from 23°F to 302°F.

## LINERS FOR HIGHLY ABRASIVE MEDIA

Subject to proper material seat selection, ABO series 900 butterfly valves can be used for service in severely abrasive environment:

**a) Carboxylic NBR (Nitrile rubber)** – this basic material variation is suitable for use in oily environments where abrasive particles are present.

**b) Flucast®** – ABO Series 900 butterfly valves equipped with Flucast® liners, are the ideal solution for dry bulk conveying, handling of slurries, dust products (gypsum, carbon black, kaolin, oxides), and pneumatic conveying of cement and powder in the mining industry. Depending on the blend, ABO series 900 Flucast® liners can be also used in the food industry (FDA approved), as well as in the oil industry for media such as crude oil.



## WORKING CONDITIONS

### Max working pressure

- NPS 1¼–24: 232 psi
- NPS 28–64: 145 psi (232 psi upon request)

### Temperature range:

- -22 °F–302 °F, depending on material selection

When temperature of medium increases over 248°F, the maximum allowable pressure is reduced from 232 psi to 208 psi, and from 145 psi to 130 psi, respectively.



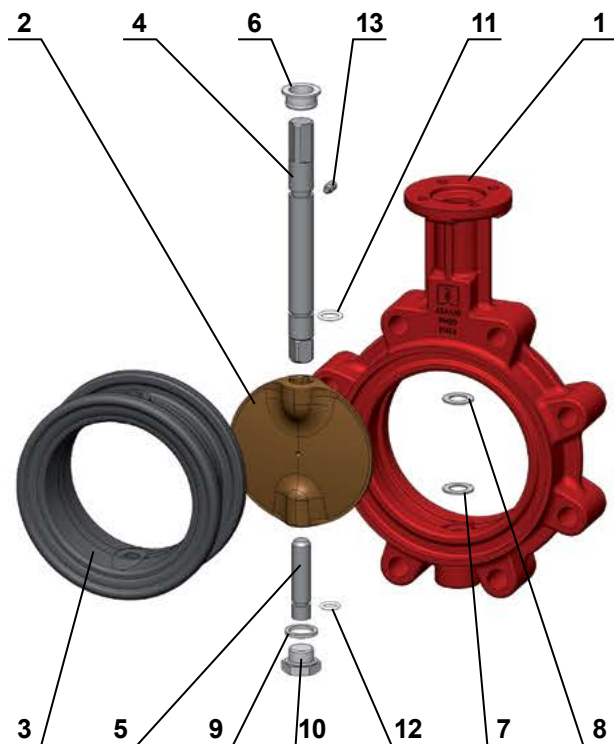
Series 900 – Potable water application



Series 900 – Biogas application

# MATERIALS & TECHNICAL INFORMATION

## DRAWING & MATERIALS



Execution in other material types can be provided upon request. Choice of the seat and disc materials for various media will be recommended upon specific enquiry. Max. temperatures for each material of seat are accepted only for a specific medium and short time exposure.

Item	Name	Material
1	Body	Ductile iron ASTM A395 60-40-18 epoxy coated Carbon steel ASTM A216 WCB Low temperature carbon steel ASTM A352 LCC Stainless steel ASTM A351 CF8M Aluminum ASTM A360.2 Aluminum bronze UNS C95500
2	Disc	0 – Brass UNS C38000 1 – Aluminum bronze UNS C95500 2 – Stainless steel ASTM A351 CF8 3* – Ductile iron ASTM A395 60-40-18 epoxy coated 4 – Stainless steel ASTM A351 CF8M 5 – Hastelloy® 6 – High alloy stainless steel UNS N08904 7 – Titanium
3	Seat	1 – NBR 14°F to 212°F 2 – EPDM -13°F to 257°F 3 – Carboxylic NBR 14°F to 212°F 4 – Viton® (FKM) 5°F to 302°F 5 – Steam silicone (MVQ) -22°F to 284°F 6 – Silicone (MVQ) -22°F to 302°F 7 – Epichlorohydrin -22°F to 158°F 8 – Hypalon® (CSM) -13°F to 248°F 9 – NBR 70-AG 14°F to 140°F NBR conductive 14°F to 176°F
4	Shaft	Stainless steel ASTM A276 420
5	Pivot	Stainless steel ASTM A276 420
6	Bushing	Delrin (up to NPS 12) Brass (from NPS 14)
7	Distance ring	Stainless steel ASTM A276 316
8	Distance ring	Stainless steel ASTM A276 316
9	Seal	Klingsil C-4400
10	Plug screw	Stainless steel
11	Shaft O-ring	EPDM; optional: NBR, Viton® (depending on seat material)
12	Pivot O-ring	EPDM; optional: NBR, Viton® (depending on seat material)
13	Retaining screw	Stainless steel

Max temperature for EPDM material for water service only up to 176°F.  
\* Available with optional Rilsan or Halar coating.

## INSTALLATION BETWEEN FLANGES (NPS 1¼–24)

Vers.	Flange / NPS	1¼ & 1½	2	2½	3	4	5	6	8	10	12	14	16	18	20	24
B	Class 150															
	PN6											•	•	•	•	•
	PN10															
	PN16													•		
T	Class 150															
	PN6	•	•	•	•	•	•	•	•	•	•	•	•	X	X	X
	PN10													•	•	•
	PN16								•	•	•	•	•	•	•	•

## INSTALLATION BETWEEN FLANGES (NPS 28–64)

Vers.	Flange / NPS	28	32	36	40	48	56	64
U	Class 150							
	PN6	•	•	•	•	•	•	•
	PN10							
	PN16	•	•	•	•	•	•	•

\*For JIS 5K/10K, please consult with ABO.

□ standard    □ • upon request    □ X not suitable



Water treatment plant in Vienna, Austria

# ACTUATION & TORQUES

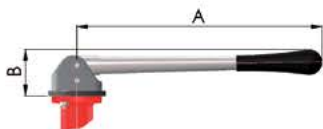
## ACTUATION POSSIBILITIES

All ABO handles, manual gear operators, pneumatic and electric actuators can be mounted directly to ABO butterfly valves, thus eliminating brackets or couplings. This allows for simple installation in the field, minimizes possible misalignment and decrease overall height.

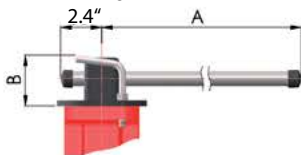
### MANUAL ACTUATION: HANDLEVER

For manual actuation, ABO offers levers in carbon steel material with protective coating for excellent corrosion, abrasion and impact resistance. A lever in stainless steel material is an option. ISO top flange connection is F05 for NPS 2 and 2½, and F07 for NPS 3–8, respectively. Hand lever in regulating design optional.

NPS 1 1/4–8



NPS 10–12

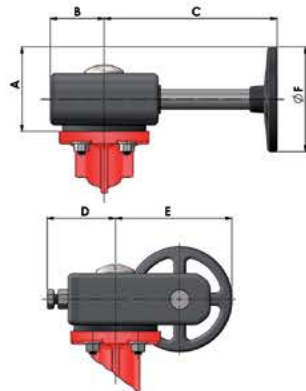


NPS	1¼–4	5	6–8	10	12
DN	32–100	125	150–200	250	300
A	10.63 / 270		14.25 / 362	17.71 / 450	29.52 / 750
B	2.95 / 75	3.14 / 80	3.54 / 90	5.31 / 135	
Weight	2.73 / 1.24	2.77 / 1.26	3.00 / 1.40	4.85 / 2.20	6.83 / 3.10

Dimensions mentioned in inch / mm, weights in lbs / kg.

### MANUAL GEARBOX WITH HANDWHEEL

ABO gearbox series manual actuators combine state of the art production technology, with cast iron and pressed steel construction, to provide a smooth and trouble-free operation for heavy duty on/off and throttling service of ABO valves. The rugged, cast iron body seals weatherproof to IP67. A self-locking gearing holds the valve in the desired position. Further features include a readily accessible handwheel, adjustable stopscrew for closed position, removable splined drive bush with indexing facility and a facility to lock the handwheel with padlock and chain. Gearboxes, as well as hand levers, can be supplemented with contacts for endpoint switches.



NPS	1¼–4	5–8	10–12	14	16	18–20	24
DN	32–100	125–200	250–300	350	400	450–500	600
A	2.75 / 70	3.00 / 78	5.25 / 134		13.26 / 337	13.70 / 348	17.63 / 448
B	1.37 / 35	1.81 / 46	2.24 / 57		2.75 / 70	4.33 / 110	
C	3.58 / 91	4.33 / 110	6.14 / 156		13.78 / 350	13.60 / 346	17.36 / 441
D	1.50 / 38	1.81 / 46	2.36 / 60		9.10 / 231	7.71 / 196	11.65 / 296
E	3.30 / 84	3.58 / 91	6.10 / 155		14.50 / 369	16.00 / 405	19.88 / 505
F	3.93 / 100		7.87 / 200		23.60 / 600		31.50 / 800
Weight	2.64 / 1.20	4.85 / 2.20	9.25 / 4.20	9.47 / 4.30	14.10 / 6.40	61.70 / 28.00	77.10 / 35.00
Wheel	CD100	CD200		SG300	SG600		SG800

Dimensions mentioned in inch / mm, weight in lbs / kg. Valid for series 242 & AB.

## ACTUATORS

- **PNEUMATIC ACTUATORS** – ABO pneumatic actuators Series 95 are rack and pinion, opposed-piston actuators available in two versions: single acting & double acting.
- **ELECTRIC ACTUATORS** – ABO Series 97 electric actuators are designed for quarter turn operation. Available in 110VAC/60Hz, 230VAC/50Hz, 3PH 440VAC/60Hz and 3PH 380VAC/50Hz.

## OPERATING TORQUES VS. OPERATING PRESSURE (LBF.IN / NM)

NPS	1¼–1½	2	2½	3	4	5	6	8	10	12	14	16	18	20	24
DN	32–40	50	65	80	100	125	150	200	250	300	350	400	450	500	600
pMAX* 87 psi/6 bar	71 / 8	97 / 11	133 / 15	177 / 20	336 / 38	487 / 55	620 / 70	885 / 100	1416 / 160	2080 / 235	4248 / 480	6638 / 750	10444 / 1180	12214 / 1380	18144 / 2050
pMAX* 145 psi/10 bar	80 / 9	106 / 12	150 / 17	221 / 25	407 / 46	620 / 70	708 / 80	1106 / 125	1770 / 200	2567 / 290	4691 / 530	10621 / 1200	13719 / 1550	18144 / 2050	23900 / 2700
pMAX* 232 psi/16 bar	89 / 10	124 / 14	177 / 20	267 / 30	487 / 55	753 / 85	885 / 100	1328 / 150	1947 / 220	3364 / 380	5134 / 580	14604 / 1650	18587 / 2100	23900 / 2700	33190 / 3750

NPS	28	32	36	40	48	56	64
DN	700	800	900	1000	1200	1400	1600
pMAX* 145 psi/10 bar	51335 / 5210	71602 / 6630	121604 / 8090	144444 / 13740	170966 / 19320	247820 / 28000	359340 / 40600

\* pMAX - maximum allowable pressure

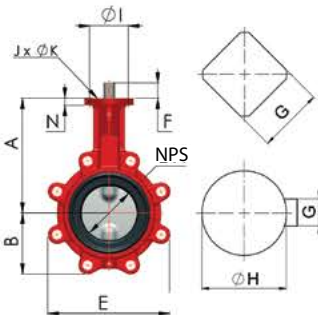
The above mentioned torques are valid for valves with EPDM seat and stainless steel disk only, and under the condition that the working medium is liquid. While actuating the valve, the above mentioned figures should be multiplied by a coefficient of 1.2. Using a NBR seat, it is necessary to apply a coefficient of 1.4. In case the medium is gaseous, or if it contains abrasive particles, it is necessary to apply a secondary coefficient of 1.35. If the working conditions are specific, it is recommended to discuss the selection of the actuator with the manufacturer.

# DIMENSIONS

## NPS 1¼–24 (DN 32–600) CLASS 150 // PN 6/10/16

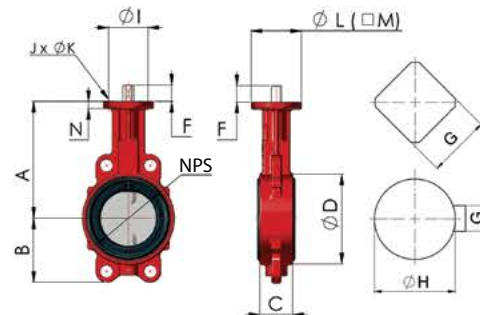
T – lug type body

Shaft/actuation connection



B – wafer type body

Shaft/actuation connection



NPS	1¼–1½	2	2½	3	4	5	6	8	10	12	14	16	18	20	24	
DN	32–40	50	65	80	100	125	150	200	250	300	350	400	450	500	600	
Body type	B	5.35/136	5.75/146	6.00/154	6.41/163	6.77/173	7.57/193	8.07/205	9.21/234	10.63/270	12.20/310	12.80/325	14.37/365	14.76/375	19.00/482	22.10/562
	T	5.35/136	5.75/146	6.00/154	6.41/163	6.77/173	7.57/193	8.07/205	9.21/234	10.63/270	12.20/310	12.80/325	14.37/365	14.76/375	19.00/482	22.10/562
Valve dimensions	B	2.13/54	2.52/64	2.83/72	3.50/89	4.13/105	4.65/118	5.04/128	6.53/166	7.95/202	9.33/237	10.67/271	12.36/314	13.00/330	14.30/363	18.27/464
	C	1.30/33	1.70/43	1.81/46	2.04/52	2.20/56	2.20/56	2.36/60	2.67/68	3.07/78	3.07/78	3.07/78	4.01/102	4.49/114	5.00/127	6.06/154
	D	3.07/78	3.78/96	4.45/113	5.04/128	5.90/150	7.24/184	8.35/212	10.55/268	12.60/320	14.80/378	17.12/435	19.21/488	21.42/544	23.22/590	27.36/695
	E	4.33/110	4.53/115	5.08/129	6.85/174	8.03/204	9.21/234	10.04/255	12.56/319	15.60/396	18.30/465	20.03/509	23.22/590	24.01/610	26.85/682	31.90/810
	F					1.00/25				1.18/30			1.40/36		3.15/80	
Endshaft dimensions	G		0.55/14				0.66/17		0.87/22			1.06/27		0.39/10	0.47/12	0.55/14
	H													1.49/38	1.65/42	2.00/50
	I		1.97/50				2.00/70		2.76/102		4/125		4.92/140		5.51/165	
ISO flange	J								4							
	K		0.27/7				0.35/9		0.40/11		0.55/14		0.71/18		0.90/23	
	L			2.76/70									7.00/175		8.27/210	
Flange dimensions	M	2.76/70					3.00/75		4.13/105	5.12/130	5.51/140					
	N		0.32/8				0.39/10	0.57/14	0.67/17		0.81/21	0.87/22		1.00/25		
	O															
Weight	Type B	4.18/1.9	6.00/2.7	7.00/3.2	8.10/3.7	15.50/4.7	14.70/6.7	18.50/8.4	29.50/13.3	48.50/22.0	64.60/29.3	102.30/46.4	154.00/69.8	183.00/83.0	247.00/112.0	476.00/216.0
	Type T	5.00/2.3	6.61/3.0	8.10/3.7	10.50/4.8	13.50/6.1	20.30/9.2	22.50/10.2	33.70/15.3	62.60/28.4	91.00/41.2	136.60/62.0	212.00/96.3	286.60/130.0	328.50/149.0	635.00/288.0
ISO Flange			F05				F07		F10	F12		F14		F16		

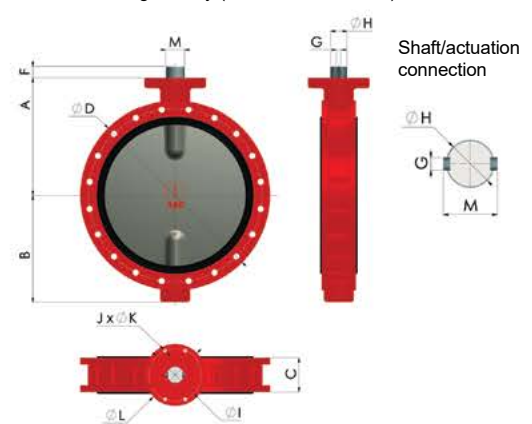
Dimensions mentioned in inch / mm, weights in lbs / kg.

## NPS 28–64 (DN 700–1600)

NPS	28	32	36	40	48	56	64	
DN	700	800	900	1000	1200	1400	1600	
Body type – U	A	24.76/629	26.22/666	28.34/720	31.50/800	37.00/940	39.72/1009	45.27/1150
	B	21.14/537	23.66/601	25.83/656	28.35/720	33.23/844	39.92/1014	41.14/1045
Valve dimensions	C	6.50/165	7.48/190	7.99/203	8.50/216	10.00/254	11.00/279	12.52/318
	D	33.00/840	37.40/950	41.34/1050	45.67/1160	54.33/1380	62.60/1590	71.65/1820
	F	3.74/95		5.12/130		5.91/150		71.65/180
Endshaft dimensions	G	0.63/16	0.78/20	0.87/22	1.10/28	1.26/32	1.57/40	
	H	2.17/55	2.95/75	3.35/85	4.13/105	4.72/120	6.30/160	
	M	2.48/63	3.31/84	3.74/95	4.61/117	5.28/134	7.01/178	
	I		10.00/254		11.73/298		14.02/356	
ISO flange	J				8			
	K		0.71/18		0.87/22		1.30/33	
	L		11.8/300		13.8/350		16.3/415	
	M							
Weight	772/350	1279/580	1543/700	1874/850	2381/1080	4237/1922	5181/2350	
ISO Flange		F25		F30		F35		

Dimensions mentioned in inch / mm, weights in lbs / kg. Version PN 16 upon request.

U – double flanged body (ISO 5752, Series 20)



EUROPEAN UNION  
European Regional Development Fund  
Operational Programme Enterprise  
and Innovations for Competitiveness

All statements, technical information in this brochure are tentative and for general use only and do not constitute a recommendation or guarantee for any specific service or application requirement. Consult ABO representative or factory for specific requirements and material selection for your intended application. The right to change or modify product design or product without prior notice is reserved. Binding specification will be provided in each offer. ABO valve accepts no liability for damages caused by bad interpretation or use of the information included in this brochure.

1. 3. 2018

Data subject to change.

**Slovakia:**  
ABO Slovakia s.r.o.  
Banská Bystrica  
Tel.: +421 484 145 633  
Email: aboslovakia@aboslovakia.sk  
www.aboslovakia.sk

**United Arab Emirates:**  
ABO UAE  
Abu Dhabi  
Tel.: +971 56 9207964  
Email: bharti@abovalve.com  
www.abovalve.com

**Ukraine:**  
ABO Ukraine LLC  
Dnipro  
Tel.: +38 056 733 95 70  
Email: a.marushchak@abovalve.com  
www.abovalve.com.ua

**Bahrain:**  
ABO Middle East  
Manama  
Tel.: +973 3444 9065  
Email: jimnichien@abovalve.com  
www.abovalve.com

**China:**  
ABO Flow Control  
Shanghai  
Tel.: +86 13601522831  
Email: wen@abovalve.com  
www.abovalve.com

**USA:**  
ABO Controls, LLC  
Houston  
Tel.: +1 (281) 930-7126  
Email: salesUSA@abovalve.com  
www.abovalve.com

**Company HQ – Czech Republic:**  
ABO valve, s.r.o.  
Dalimilova 285/54, 783 35 Olomouc  
Tel.: +420 585 224 087  
Email: export@abovalve.com  
www.abovalve.com

**Germany:**  
ABO Armaturen GmbH  
Mönchengladbach  
Tel.: +49 162 417 45 47  
Email: d.beckers@abovalve.com  
www.abo-armaturen.de

**Russia:**  
ABO ARMATURA Ltd.  
Smolensk  
Tel.: +7(4812) 240 020  
Email: aboarmatura@yandex.ru  
www.aboarmatura.ru

**Brazil:**  
ABO do Brasil Válvulas Industriais Eireli  
Valinhos  
Tel.: +55 19 9169 4562  
Email: sales@abovalve.com  
www.abovalve.com

**Singapore:**  
ABO Valve Pte. Ltd.  
Singapore  
Tel.: +65 9169 4562  
Email: lsw@abovalve.com  
www.abovalve.com

**Turkey:**  
ABO Armaturen LTD STI  
Istanbul  
Tel.: +90 216 527 36 34  
Email: m.sahin@abovalve.com  
www.abovalve.com