



Butterfly valves

Colossus Wafer, Lug & Double Flanged

► Technical Details

Manufacturing range	DN32 – DN600
Distance between faces	EN 558 Series 20, Serie 13 ISO 5752 Series 20, Serie 13 API 609, EN 593, BS 5155, MSS-SP-68
Mounting between flanges	PN10/16/25/40 - ANSI150 Lbs./300 Lbs.
Flanges	ISO 7005, DIN 2501, BS 4504 ANSI Class 150: ANSI B16.5
Upper flange connection	ISO 5211
Tests	API 598, ANSI/ASME B16.34 BS1560, EN593
Finish	Stainless steel / Steel
Operating pressure	DN32 – DN600 max. 25 bar.



► Characteristics

- Double offset of the shaft.
- Longer service life, minimal friction between the disc and the seat.
- Complete watertightness. Class VI - ISO 5208 (Rate A)
- Self-sealing mechanism that guarantees a tight seal and low operating torque.
- The offset shaft allows for easy seat replacement.
- Rapid on-site maintenance.
- High performance.
- Low cost.
- Light weight.
- Same construction, three types of seat: PTFE 100% / R-PTFE, INCONEL, Fire Safe.
- Stainless steel butterfly.
- Stainless steel shaft.
- Possibility of operation with different controls (hand lever, gearbox, pneumatic, electric or hydraulic actuator, etc.).
- Optional threaded retainer.
- Valve construction with vacuum-safe R-PTFE seal.
- TA-LUFT VD 2440 ISO 15848 Design.
- PED 2014/68.
- ATEX 2014/34/EU - ATEX II 2GDc.
- SIL IFC 61508.

► General Applications

- Vacuum services
- Chemicals
- Petroleum products
- Ethylene
- LPG/LNG
- Hydrocarbon derivatives
- Steam
- Air
- Sea water
- Saturated water
- Saturated steam
- Heat-insulating gases
- Bitumen / Asphalt
- Corrosive liquids
- Thermal oil
- Cogeneration
- Fire-fighting facilities
- Abrasive materials
- Slurry



Valve torque (Nm)

DN		Torque (Nm)											
mm	in	PTFE / R-PTFE				METAL				FIRE-SAFE			
		PN10	PN16	PN20	PN25	PN10	PN16	PN20	PN25	PN10	PN16	PN20	PN25
40*	1 1/2"	8	11	14	19	10	14	18	23	9	12	15	20
50*	2"	12	17	20	25	18	19	25	33	14	20	23	29
65*	2 1/2"	20	25	27	30	25	30	44	50	17	29	31	35
80	3"	31	40	42	55	40	50	63	75	36	46	48	63
100	4"	45	58	68	75	48	60	72	85	52	67	78	86
125	5"	52	65	80	105	85	110	215	320	60	75	92	121
150	6"	110	135	160	190	187	229	385	540	127	155	184	219
200	8"	150	226	275	314	300	452	601	750	173	260	316	361
250	10"	206	304	402	471	412	608	769	930	237	350	462	542
300	12"	314	471	588	726	785	1175	1463	1750	361	542	676	835
350	14"	502	795	888	980	885	1370	1640	1910	577	914	852	1127
400	16"	625	985	1071	1157	1320	1530	1818	2105	719	1133	1025	1331
450	18"	950	1190	1272	1354	1505	1880	2385	2890	1093	1369	1325	1557
500	20"	1297	1725	1938	2150	1890	2375	2933	3490	1492	1984	1983	2473
600	24"	1561	2280	2501	2721	2180	2910	4505	6100	1795	2622	2462	3129

(*) Except Double Flange

All of the torques shown in the table have been tested when in wet service. For dry service (non-lubricating, dry gas media), multiply values by 1.15

For lubricating services (cleaning, non-abrasive lubricants), multiply values by 0.85

To obtain additional data and more information, please contact the Technical Department

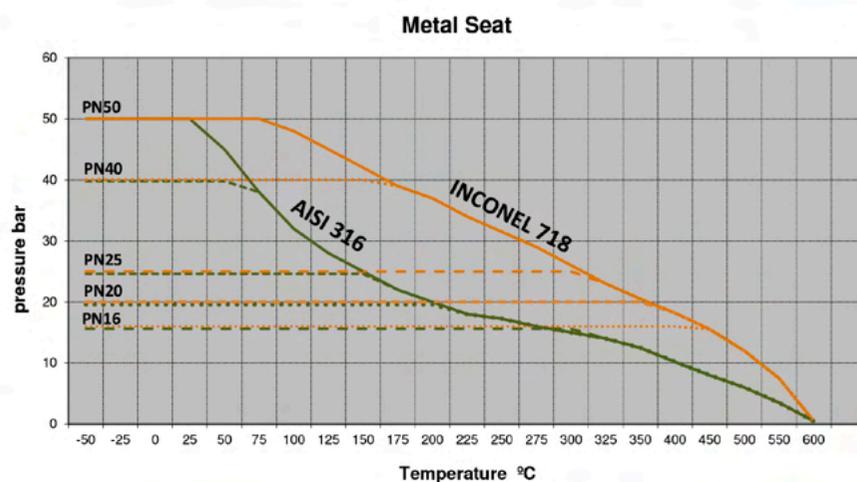
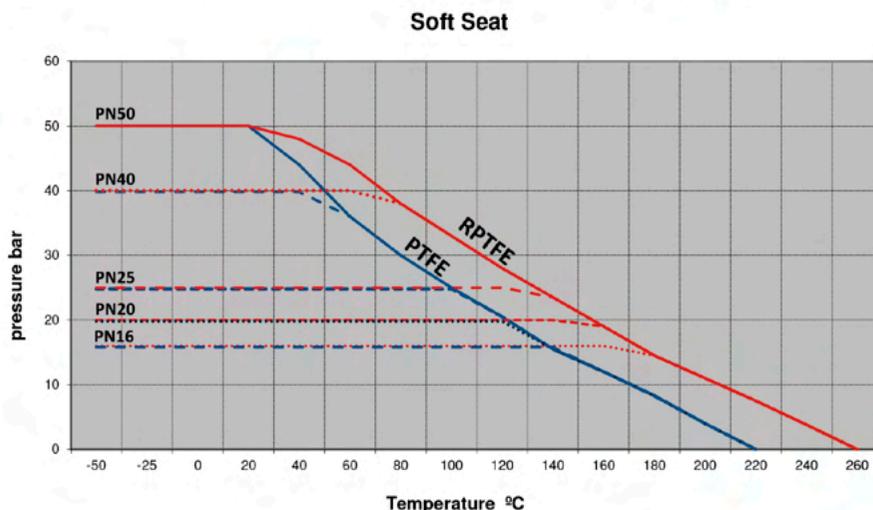
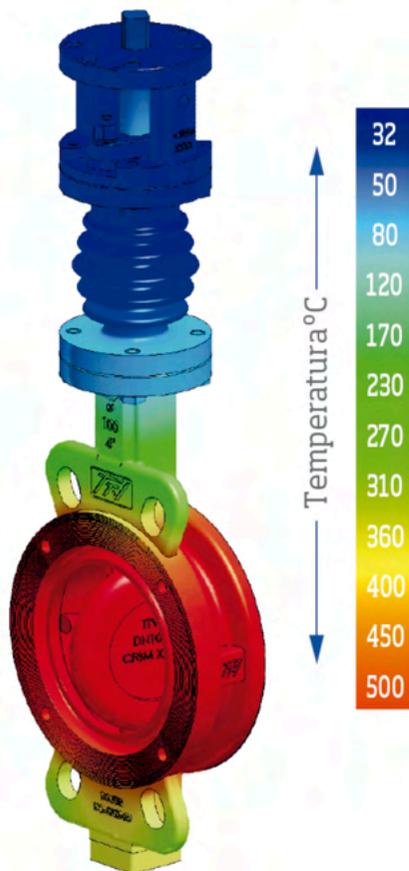
Kv Data

DN	Flow coefficient Kv								
	20°	30°	40°	50°	60°	70°	80°	90°	
40*	14	20	28	37	42	53	76	75	
50*	19	27	35	43	54	65	76	87	
65*	17	26	34	43	62	82	101	121	
80	40	56	72	88	118	149	179	210	
100	40	88	137	186	243	300	355	413	
125	54	160	226	372	457	542	626	710	
150	71	227	363	499	634	770	906	1042	
200	179	432	686	939	1177	1426	1655	1892	
250	320	674	1027	1380	1841	2301	2762	3223	
300	358	914	1470	2027	2738	3449	4162	4873	
350	487	990	1530	2150	2930	3673	4322	5725	
400	634	1132	1701	2400	3090	3961	5121	7243	
450	596	1373	1915	2731	3313	4632	6534	9863	
500	1150	1694	2528	3125	4285	7245	9924	12234	
600	1951	3073	4957	6758	9875	12875	16245	20436	

(*) Except Double Flange

Kv: Volume of water in m³/hr, which will flow through a restriction or valve with a pressure drop of 1 bar at 20°C

$$Cv = 1.16 \cdot Kv$$



Temperature and resistance table:

Name	Applications	Limitations	Temp. Range
PTFE - RPTFE	Vacuum services, chemicals, petroleum, ethylene, LPG/LNG, hydrocarbon derivatives, steam, air, seawater and saturated water.	Alkali metals, trifluorides, elemental fluorine at high temperatures and pressures.	-50°C to 220°C
INCONEL	Saturated steam, heat-insulated gases, bitumen, asphalt, corrosive liquids, thermal oil, cogeneration.	Not suitable for food service.	-50°C to 360°C
FIRE-SAFE	Fire, abrasives, slurry and vapour protection facilities.	Alkali metals, trifluorides, elemental fluorine at high temperatures and pressures.	-50°C to 220°C

Short code: Ej.: 20WX4040FO

Frame Material	Series	Valve Type	Shaft Material	Disc Material	Seat Material
20	W	X	40	40	FO
40	CF-8M	W Wafer	40 AISI 316	40 CF-8M	F0 PTFE
50	WCB	L Lug	95 17-4 PH		F5 RPTFE (PTFE + 25% FIBREGLASS)
51	LCB	H Double Flange S13	9T F431		I0 INCONEL
52	LCC				4F RPTFE + AISI316

► Valve assembly and position

1.- Wafer valve assembly

Valves are normally supplied slightly open. Check that they are like this before proceeding to assemble them. Once the space to house the valve has been verified, it is placed in line with the pipe and we insert sealing gaskets. Next, some studs are positioned to connect it to the pipe.

Later, the butterfly is completely opened to 90° and the rest of the studs are put in place with their nuts. Finally, all of the nuts are tightened by triangulation in order to uniformly tighten all of the studs and not produce any deformations. Finally, it is verified that the valve closes and opens normally.



DN40 - DN250
FREE ASSEMBLY POSITION
(4 positions)

2.- Lug valve assembly

The process is the same as with the wafer valves, with the exception that these valves must be assembled using screws with a length that enables perfect tightness between the flanges of the pipe, and cannot be longer than the corresponding distance.

Mounting position

Soft seat valves are bidirectional and can be installed on resired face, however, metal seat valves should be installed according to he preferred flow direction.

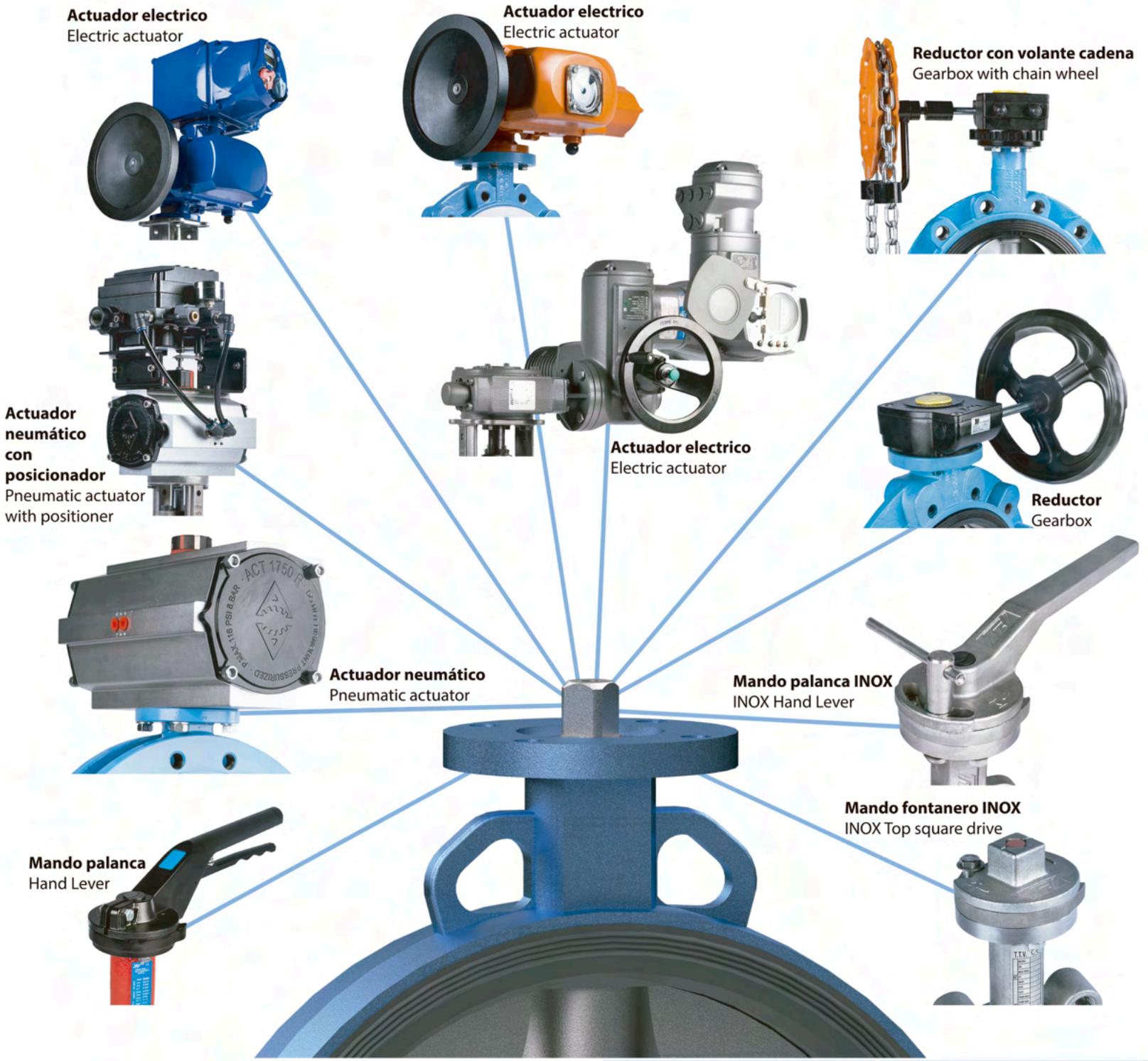


DN300 - DN600
FREE MOUNTING POSITION
(3 positions)

► Assembly warnings

- The valve surfaces must be clean and free of dirt.
- The space to house the valve must be wide enough to avoid damaging the joints when inserting the valve.
- Be careful not to hit or scratch the valve during assembly; it could damage the paint.
- When assembling heavy valves, make sure that the eyebolts and slings comply with the corresponding safety approvals.



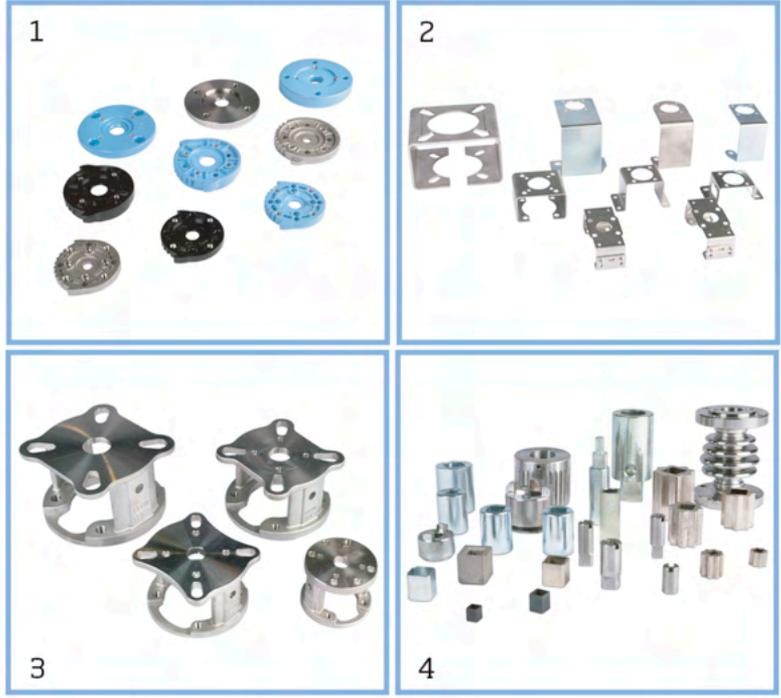


All of our valves can be operated through different manual operators and actuators.

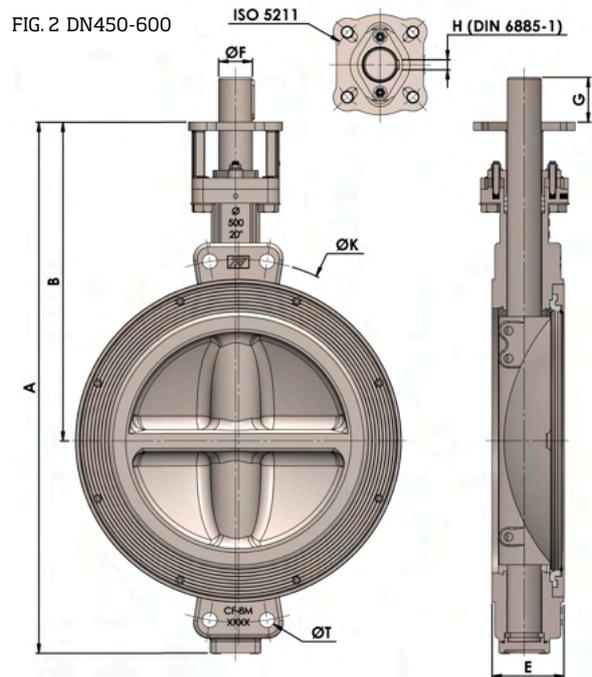
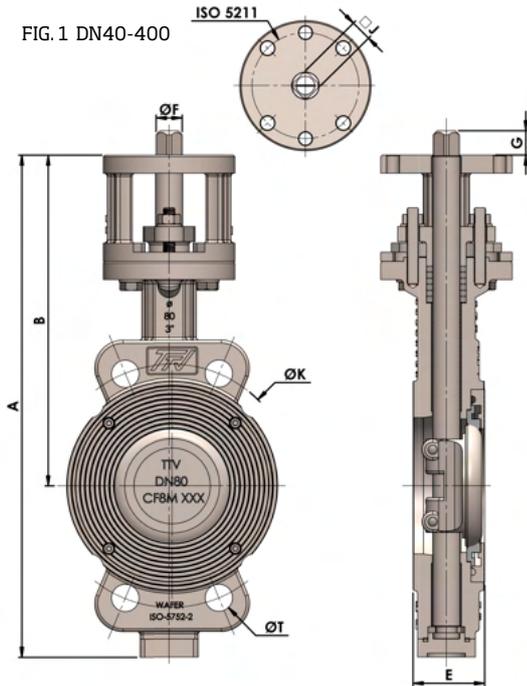
We offer assembly, adjustment and testing services for electric or pneumatic actuators and accessories, such as positioners, limit switch boxes or solenoid valves.

Different types of actuator:

- 1. ISO 5211 Flange coupling.
- 2. Structural elements for controls and accessories.
- 3. Colossus ISO 5211 valve support with multiple connections.
- 4. Coupling bushings for controls and accessories.







Dimensiones válvulas / Valves dimensions									PN10	PN16	PN25	ANSI150					
DN		A	B	E	F	G	J	ISO 5211	Peso Weight (Kg)	K	Taladros Holes N°xT	K	Taladros Holes N°xT	K	Taladros Holes N°xT	K	Taladros Holes N°xT
mm	In																

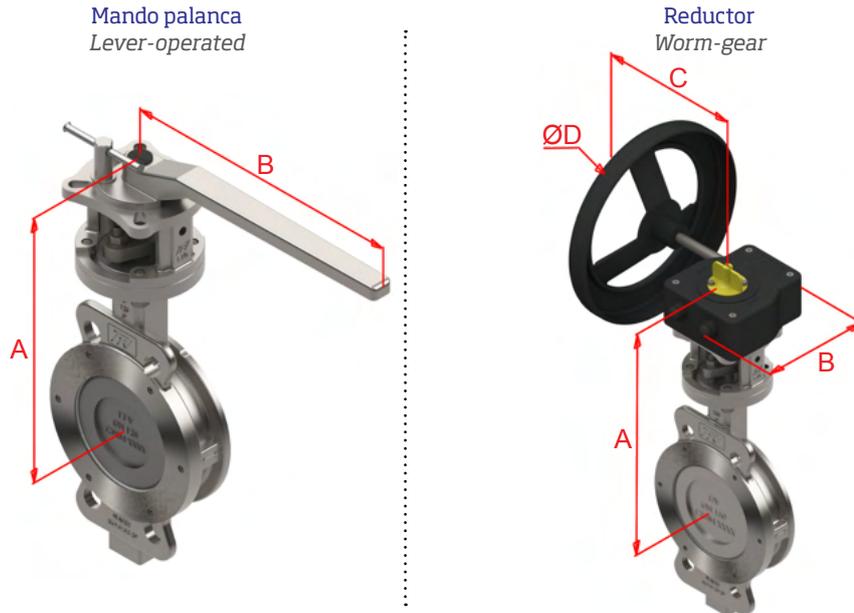
FIG. 1 DN40-400

40	1 1/2"	251	191	33	10	14	9*	F05/07	3,2	110	4x18	110	4x18	110	4x18	98,5	4x16
50	2"	288	198	43	12	14	9*	F05/07	4,6	125	4x18	125	4x18	125	4x18	120,6	4x19
65	2 1/2"	298	210	46,5	14	14	11	F05/07	5,3	145	4x18	145	4x18	145	4x18	139,7	4x19
80	3"	329	218	47	17	15	14	F05/07	6,4	160	4x18	160	4x18	160	4x18	152,4	4x19
100	4"	365	239	52	17	18	14	F05/07	8	180	4x18	180	4x18	190	4x23	190,5	4x19
125	5"	430	280	56	21	22	17*	F07/10/12	14	210	4x18	210	4x18	220	4x27	215,9	4x23
150	6"	468	300	56	21	24	17*	F07/10/12	16	240	4x23	240	4x23	250	4x27	241,3	4x23
200	8"	540	345	62	26,5	32	22*	F10/12/14	26	295	4x23	295	4x23	310	4x27	298,5	4x23
250	10"	629	392	70	26,5	39	22*	F12/14/16	42	350	4x23	355	4x27	370	4x30	362	4x26
300	12"	712	434	78	33	50	27*	F12/14/16	58	400	4x23	410	4x27	430	4x30	431,8	4x26
350	14"	767	461	78	36	50	27*	F12/14/16	64	460	4x23	470	4x27	490	4x33	476,3	4x29
400	16"	810	476	102	50	80	-	F12/14/16	103	515	4x27	525	4x30	550	4x36	539,8	4x29

FIG. 2 DN450-600

450	18"	861	506	114	50	80	-	F14/16	125	565	4xM24	585	4xM27	600	4xM33	577,9	4x1 1/8"
500	20"	950	570	127	60	80	-	F14/16	162	620	4xM24	650	4xM30	660	4xM33	635	4x1 1/8"
600	24"	1090	630	154	60	90	-	F14/16	271	725	4xM27	770	4xM33	770	4xM36	749,3	4x1 1/4"

► Válvula con accesorios / Valve with accessories



Diámetro nominal		Mando palanca			Reductor					
Nominal size		Lever-operated			Worm-gear					
(mm)	In	A	B	Peso Weight	Modelo Model	A	B	C	ØD	Peso Weight
40	1 1/2"	240	205	3,5	AM1-TTV	219	100	116	140	4,6
50	2"	247	205	4,9	AM1-TTV	226	100	116	140	6
65	2 1/2"	259	205	5,6	AM1-TTV	238	100	116	140	7,2
80	3"	267	205	6,7	AM1-TTV	246	100	120	200	8,2
100	4"	288	330	8,5	AM1-TTV	267	100	120	200	9,8
125	5"	329	330	14,5	AM2-TTV	320	142	223	300	18
150	6"	349	330	16,5	AM2-TTV	340	142	223	300	20
200	8"	-	-	-	AM2-TTV	380	142	223	300	30
250	10"	-	-	-	AM3-TTV	443	185	322	400	51,5
300	12"	-	-	-	AM3-TTV	485	185	322	400	67,5
350	14"	-	-	-	AM3-TTV	512	185	322	400	73,5
400	16"	-	-	-	ARC10	518	200	381	600	122
450	18"	-	-	-	ARC11	554	220	402	600	152
500	20"	-	-	-	ARC12	625	285	447	700	200
600	24"	-	-	-	ARC12	685	285	447	700	309

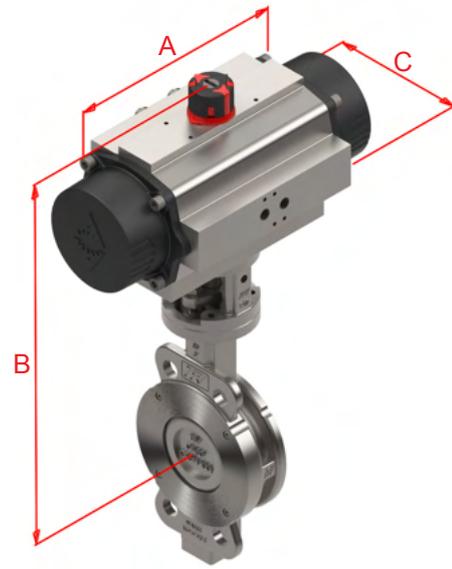
Wafer Colossus PTFE / R-PTFE

► Válvula con accesorios / Valve with accessories

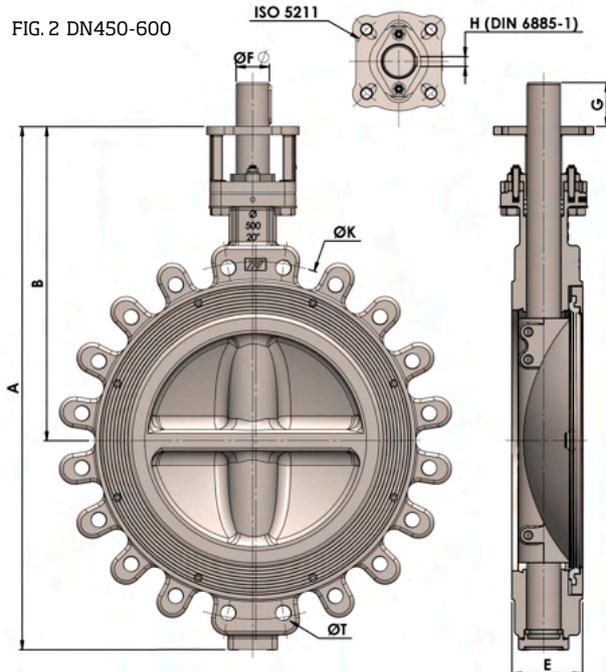
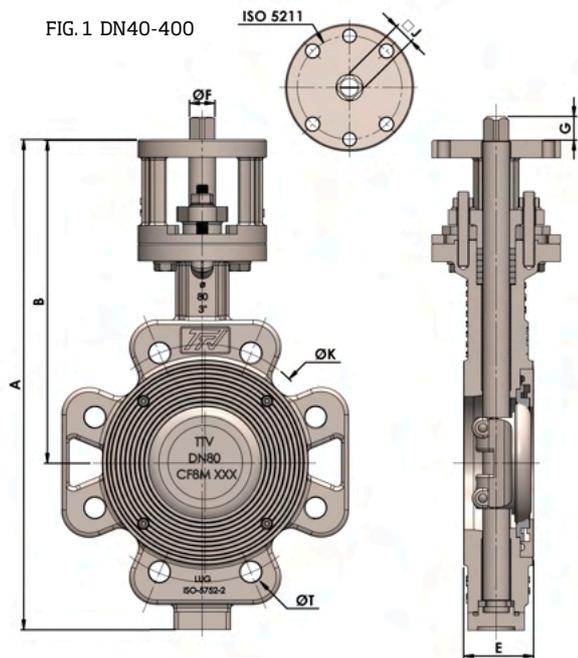
Actuador neumático doble efecto
Double acting actuator



Actuador neumático simple efecto
Spring Return Actuator



DN		ACT. NEUMÁTICO DOBLE EFECTO DOUBLE ACTING PNEUMATIC ACT.						ACT. NEUMÁTICO SIMPLE EFECTO / SPRING RETURN PNEUMATIC ACR.													
		PN10 / 16 / 20 / 25 / ANSI 150						PN10 / 16					PN20 / ANSI 150					PN25			
(mm)	In	Modelo Model	A	B	C	Kg.	Modelo Model	A	B	C	Kg.	Modelo Model	A	B	C	Kg.	Modelo Model	A	B	C	Kg.
40	1 1/2"	ADA 40	158	306	91	5,5	ASR 80	217	328	111	7	ASR 80	217	328	111	7	ASR 80	217	328	111	7
50	2"	ADA 40	158	313	91	6,5	ASR 80	217	335	111	8,5	ASR 80	217	335	111	8,5	ASR 80	217	335	111	8,5
65	2 1/2"	ADA 40	158	325	91	7,5	ASR 80	217	347	111	9	ASR 80	217	347	111	9	ASR 80	217	347	111	9
80	3"	ADA 80	177	355	111	9,5	ASR 200	299	383	135.5	13,5	ASR 200	299	383	135.5	13,5	ASR 200	299	383	135.5	13,5
100	4"	ADA 130	196	386	122	12	ASR 200	299	404	135.5	15,5	ASR 300	348.5	421	152.5	19	ASR 300	348.5	421	152.5	19
125	5"	ADA 200	225	445	135.5	19,5	ASR 300	348.5	462	152.5	25	ASR 300	348.5	462	152.5	25	ASR 300	348.5	642	152.5	25
150	6"	ADA 300	273	482	152.5	24,5	ASR 500	397	499	173	31,5	ASR 850	473	521	191.5	38	ASR 850	473	521	191.5	38
200	8"	ADA 500	304	539	173	37	ASR 850	473	561	191.5	48	ASR 1200	560	589	212.5	60,5	ASR 1200	560	589	212.5	60,5
250	10"	ADA 850	372	613	191.5	59	ASR 1200	560	641	212.5	76,5	ASR 1750	601	672	242.5	88	ASR 1750	601	672	242.5	88
300	12"	ADA 1200	439	683	212.5	84	ASR 1750	601	714	242.5	104	ASR 1750	601	714	242.5	104	ASR 2100	702	747	276.5	126
350	14"	ADA 1750	461	741	242.5	96,5	ASR 2100	702	774	276.5	132	ASR 2100	702	774	276.5	132	ASR 2500	738	844	356	164
400	16"	ADA 2100	510	789	276.5	152,5	ASR 2500	738	859	356	203	ASR 2500	738	859	356	203	ASR 2500	738	859	356	203
450	18"	ADA 2500	518	889	356	194,5	ASR 2500	738	889	356	225	ASR 2500	738	889	356	225	ASR 2500	738	889	356	225
500	20"	ADA 2500	518	953	356	231,5	ASR 2500	738	953	356	262	ASR 4000	940	1004	415	345	ASR 4000	940	1004	415	345
600	24"	ADA 2500	518	1013	356	340,5	ASR 4000	940	1064	415	454	ASR 4000	940	1064	415	454	ASR 4000	940	1064	415	454



Dimensiones válvulas / Valves dimensions									PN10	PN16	PN25	ANSI150					
DN		A	B	E	F	G	J	ISO 5211	Peso Weight (Kg)	K	Taladros Holes N°xT	K	Taladros Holes N°xT	K	Taladros Holes N°xT	K	Taladros Holes N°xT
mm	In																

FIG. 1 DN40-400

40	1 1/2"	251	191	33	10	14	9*	F05/07	4	110	4xM16	110	4xM16	110	4xM16	98,5	4x1/2"
50	2"	288	198	43	12	14	9*	F05/07	6	125	4xM16	125	4xM16	125	4xM16	120,6	4x5/8"
65	2 1/2"	298	210	46,5	14	14	11	F05/07	7	145	4xM16	145	4xM16	145	8xM16	139,7	4x5/8"
80	3"	329	218	47	17	15	14	F05/07	9	160	8xM16	160	8xM16	160	8xM16	152,4	4x5/8"
100	4"	365	239	52	17	18	14	F05/07	14	180	8xM16	180	8xM16	190	8xM20	190,5	8x5/8"
125	5"	430	280	56	21	22	17*	F07/10/12	18	210	8xM16	210	8xM16	220	8xM24	215,9	8x3/4"
150	6"	468	300	56	21	24	17*	F07/10/12	20	240	8xM20	240	8xM20	250	8xM24	241,3	8x3/4"
200	8"	540	345	62	26,5	32	22*	F10/12/14	35	295	8xM20	295	12xM20	310	12xM24	298,5	8x3/4"
250	10"	629	392	70	26,5	39	22*	F12/14/16	49	350	12xM20	355	12xM24	370	12xM27	362	12x7/8"
300	12"	712	434	78	33	50	27*	F12/14/16	65	400	12xM20	410	12xM24	430	16xM27	431,8	12x7/8"
350	14"	767	461	78	36	50	27*	F12/14/16	86	460	16xM20	470	16xM24	490	16xM30	476,3	12x1"
400	16"	810	476	102	50	80	-	F12/14/16	145	515	16xM24	525	16xM27	550	16xM33	539,8	16x1"

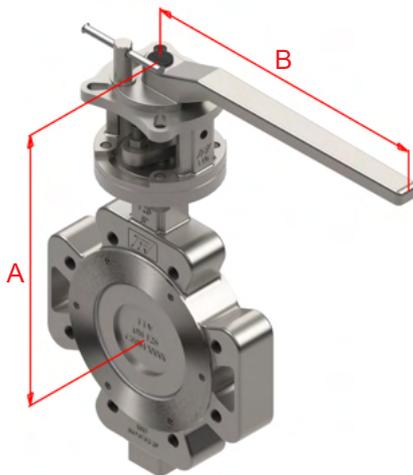
FIG. 2 DN450-600

450	18"	861	506	114	50	80	-	F14/16	169	565	20xM24	585	20xM27	600	20xM33	577,9	16x1 1/8"
500	20"	950	570	127	60	80	-	F14/16	225	620	20xM24	650	20xM30	660	20xM33	635	20x1 1/8"
600	24"	1090	630	154	60	90	-	F14/16	370	725	20xM27	770	20xM33	770	20xM36	749,3	20x1 1/4"

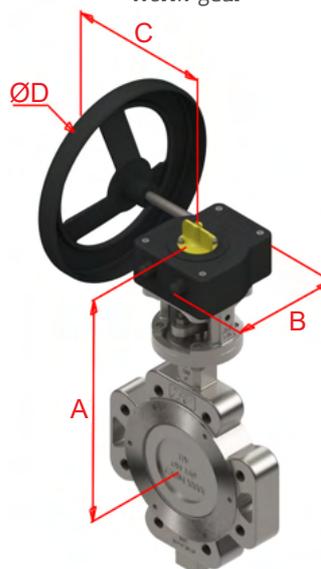
Lug Colossus

► Válvula con accesorios / Valve with accessories

Mando palanca
Lever-operated



Reductor
Worm-gear

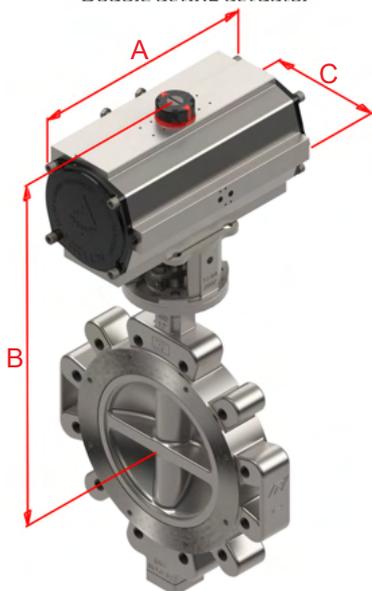


Diámetro nominal		Mando palanca			Reductor					
Nominal size		Lever-operated			Worm-gear					
(mm)	In	A	B	Peso Weight	Modelo Model	A	B	C	ØD	Peso Weight
40	1 1/2"	240	205	4,3	AM1-TTV	219	100	116	140	5,4
50	2"	247	205	6,3	AM1-TTV	226	100	116	140	7,4
65	2 1/2"	259	205	7,3	AM1-TTV	238	100	116	140	8,4
80	3"	267	205	9,3	AM1-TTV	246	100	120	200	10,8
100	4"	288	330	14,5	AM1-TTV	267	100	120	200	15,8
125	5"	329	330	18,5	AM2-TTV	320	142	223	300	22
150	6"	349	330	20,5	AM2-TTV	340	142	223	300	24
200	8"	-	-	-	AM2-TTV	380	142	223	300	39
250	10"	-	-	-	AM3-TTV	443	185	322	400	58,5
300	12"	-	-	-	AM3-TTV	485	185	322	400	74,5
350	14"	-	-	-	AM3-TTV	512	185	322	400	95,5
400	16"	-	-	-	ARC10	518	200	381	600	164
450	18"	-	-	-	ARC11	554	220	402	600	196
500	20"	-	-	-	ARC12	625	285	447	700	263
600	24"	-	-	-	ARC12	685	285	447	700	408

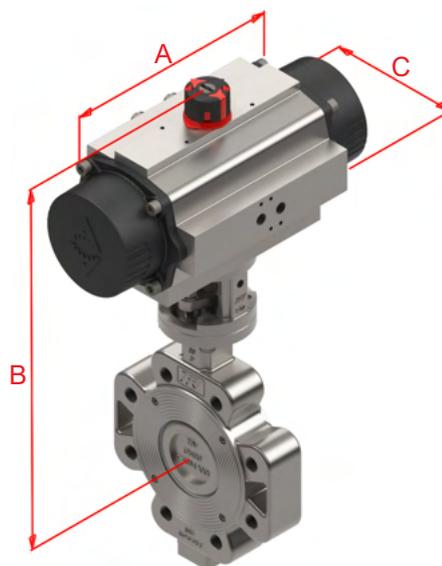
Lug Colossus PTFE / R-PTFE

► Válvula con accesorios / Valve with accessories

Actuador neumático doble efecto
Double acting actuator



Actuador neumático simple efecto
Spring Return Actuator



DN		ACT. NEUMÁTICO DOBLE EFECTO DOUBLE ACTING PNEUMATIC ACT.						ACT. NEUMÁTICO SIMPLE EFECTO / SPRING RETURN PNEUMATIC ACR.													
		PN10 / 16 / 20 / 25 / ANSI 150						PN10 / 16					PN20 / ANSI 150					PN25			
(mm)	In	Modelo Model	A	B	C	Kg.	Modelo Model	A	B	C	Kg.	Modelo Model	A	B	C	Kg.	Modelo Model	A	B	C	Kg.
40	1 1/2"	ADA 40	158	306	91	6	ASR 80	217	328	111	7,5	ASR 80	217	328	111	7,5	ASR 80	217	328	111	7,5
50	2"	ADA 40	158	313	91	8	ASR 80	217	335	111	9,5	ASR 80	217	335	111	9,5	ASR 80	217	335	111	9,5
65	2 1/2"	ADA 40	158	325	91	9	ASR 80	217	347	111	10,5	ASR 80	217	347	111	10,5	ASR 80	217	347	111	10,5
80	3"	ADA 80	177	355	111	12	ASR 200	299	383	135,5	16,5	ASR 200	299	383	135,5	16,5	ASR 200	299	383	135,5	16,5
100	4"	ADA 130	196	386	122	18	ASR 200	299	404	135,5	21,5	ASR 300	348,5	421	152,5	25	ASR 300	348,5	421	152,5	25
125	5"	ADA 200	225	445	135,5	23,5	ASR 300	348,5	462	152,5	29	ASR 300	348,5	462	152,5	29	ASR 300	348,5	642	152,5	29
150	6"	ADA 300	273	482	152,5	28,5	ASR 500	397	499	173	35,5	ASR 850	473	521	191,5	42	ASR 850	473	521	191,5	42
200	8"	ADA 500	304	539	173	46	ASR 850	473	561	191,5	57	ASR 1200	560	589	212,5	69,5	ASR 1200	560	589	212,5	69,5
250	10"	ADA 850	372	613	191,5	66	ASR 1200	560	641	212,5	83,5	ASR 1750	601	672	242,5	95	ASR 1750	601	672	242,5	95
300	12"	ADA 1200	439	683	212,5	91	ASR 1750	601	714	242,5	111	ASR 1750	601	714	242,5	111	ASR 2100	702	747	276,5	133
350	14"	ADA 1750	461	741	242,5	118,5	ASR 2100	702	774	276,5	154	ASR 2100	702	774	276,5	154	ASR 2500	738	844	356	186
400	16"	ADA 2100	510	789	276,5	195	ASR 2500	738	859	356	245	ASR 2500	738	859	356	245	ASR 2500	738	859	356	245
450	18"	ADA 2500	518	889	356	238,5	ASR 2500	738	889	356	269	ASR 2500	738	889	356	269	ASR 2500	738	889	356	269
500	20"	ADA 2500	518	953	356	294,5	ASR 2500	738	953	356	325	ASR 4000	940	1004	415	408	ASR 4000	940	1004	415	408
600	24"	ADA 2500	518	1013	356	439,5	ASR 4000	940	1064	415	553	ASR 4000	940	1064	415	553	ASR 4000	940	1064	415	553

Doble Brida Colossus

► Dimensiones válvulas / Valve dimensions

FIG. 1 DN80-400

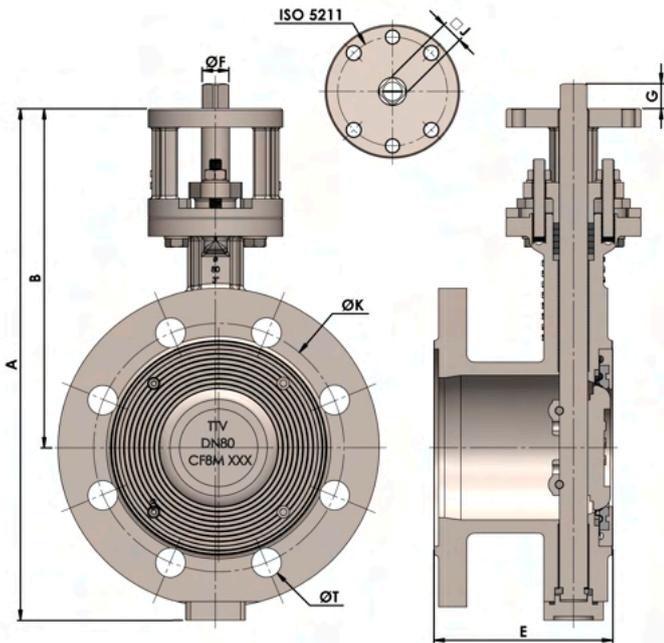
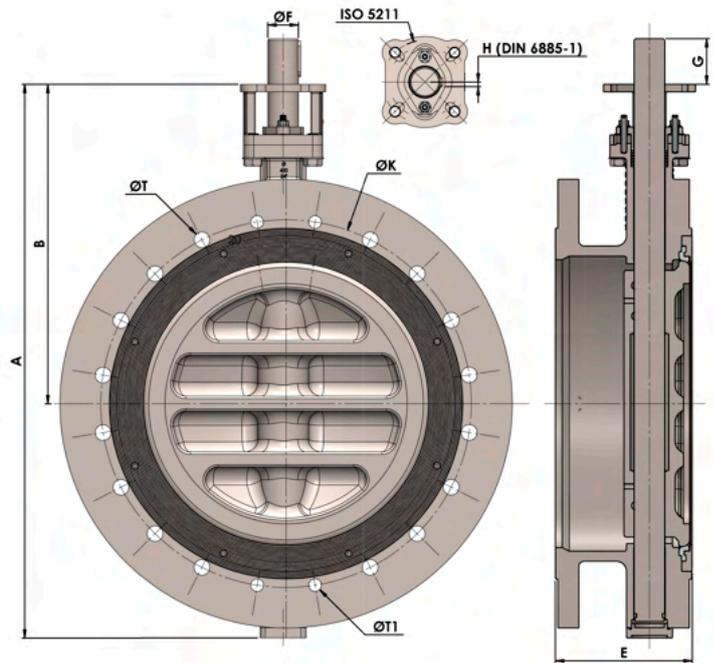


FIG. 2 DN450-600

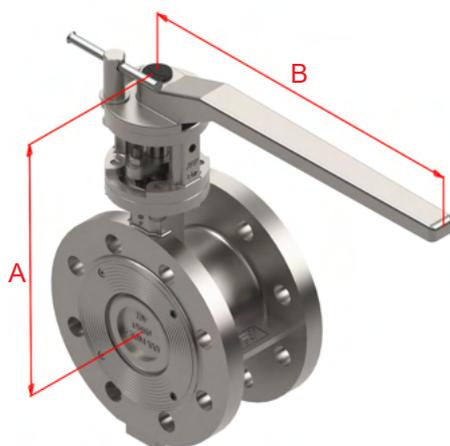


Dimensiones válvulas / Valves dimensions									PN10	PN16	PN25	ANSI150					
DN		A	B	E	F	G	J	ISO 5211	Peso Weight (Kg)	K	Taladros Holes N°xT	K	Taladros Holes N°xT	K	Taladros Holes N°xT	K	Taladros Holes N°xT
mm	In																
FIG. 1 DN80-400																	
80	3"	329	218	114	17	15	14	F05/07	13	160	8xM16	160	8xM16	160	8xM16	152,4	4x5/8"
100	4"	365	239	127	17	18	14	F05/07	17	180	8xM16	180	8xM16	190	8xM20	190,5	8x5/8"
125	5"	430	280	140	21	22	17*	F07/10/12	27	210	8xM16	210	8xM16	220	8xM24	215,9	8x3/4"
150	6"	468	300	140	21	24	17*	F07/10/12	33	240	8xM20	240	8xM20	250	8xM24	241,3	8x3/4"
200	8"	540	345	152	26,5	32	22*	F10/12/14	53	295	8xM20	295	12xM20	310	12xM24	298,5	8x3/4"
250	10"	629	392	165	26,5	39	22*	F12/14/16	83	350	12xM20	355	12xM24	370	12xM27	362	12x7/8"
300	12"	712	434	178	33	50	27*	F12/14/16	122,5	400	12xM20	410	12xM24	430	16xM27	431,8	12x7/8"
350	14"	767	461	190	36	50	27*	F12/14/16	144	460	16xM20	470	16xM24	490	16xM30	476,3	12x1"
400	16"	810	476	216	50	80	-	F12/14/16	199,5	515	16xM24	525	16xM27	550	16xM33	539,8	16x1"
FIG. 2 DN450-600																	
450	18"	861	506	222	50	80	-	F14/16	243	565	20xM24	585	20xM27	600	20xM33	577,9	16x1 1/8"
500	20"	950	570	229	60	80	-	F14/16	296	620	20xM24	650	20xM30	660	20xM33	635	20x1 1/8"
600	24"	1090	630	267	60	90	-	F14/16	462,5	725	20xM27	770	20xM33	770	20xM36	749,3	20x1 1/4"

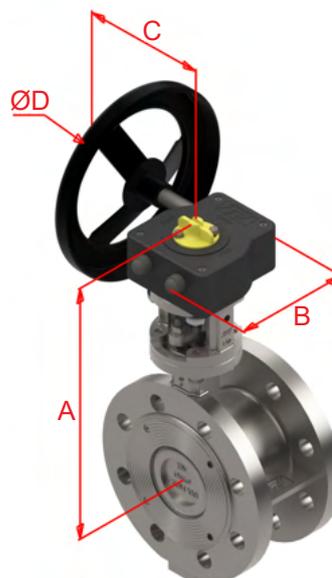
Doble Brida Colossus

► Válvula con accesorios / Valve with accessories

Mando palanca
Lever-operated



Reductor
Worm-gear

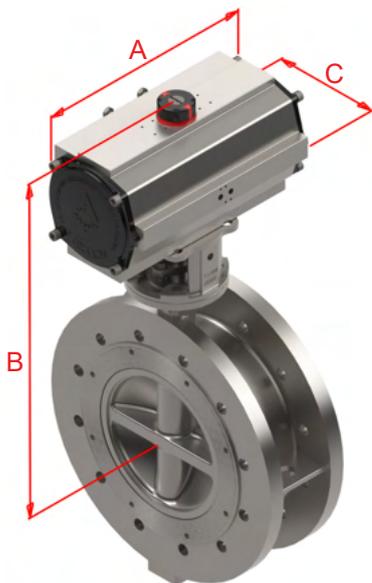


Diámetro nominal		Mando palanca			Reductor					
Nominal size		Lever-operated			Worm-gear					
(mm)	In	A	B	Peso Weight	Modelo Model	A	B	C	ØD	Peso Weight
80	3"	267	205	13,4	AM1-TTV	246	100	120	200	14,8
100	4"	288	330	17,5	AM1-TTV	267	100	120	200	18,8
125	5"	329	330	27,5	AM2-TTV	320	142	223	300	31
150	6"	349	330	33,5	AM2-TTV	340	142	223	300	37
200	8"	-	-	-	AM2-TTV	380	142	223	300	57
250	10"	-	-	-	AM3-TTV	443	185	322	400	92,5
300	12"	-	-	-	AM3-TTV	485	185	322	400	131,5
350	14"	-	-	-	AM3-TTV	512	185	322	400	153,5
400	16"	-	-	-	ARC10	518	200	381	600	218,3
450	18"	-	-	-	ARC11	554	220	402	600	269,8
500	20"	-	-	-	ARC12	625	285	447	700	334,3
600	24"	-	-	-	ARC12	685	285	447	700	500,8

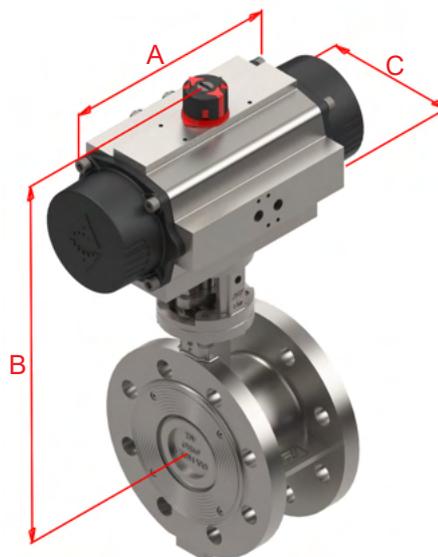
Doble Brida Colossus PTFE / R-PTFE

► Válvula con accesorios / Valve with accessories

Actuador neumático doble efecto
Double acting actuator



Actuador neumático simple efecto
Spring Return Actuator



DN		ACT. NEUMÁTICO DOBLE EFECTO DOUBLE ACTING PNEUMATIC ACT.					ACT. NEUMÁTICO SIMPLE EFECTO / SPRING RETURN PNEUMATIC ACR.														
		PN10 / 16 / 20 / 25 / ANSI 150					PN10 / 16				PN20 / ANSI 150				PN25						
(mm)	In	Modelo Model	A	B	C	Kg.	Modelo Model	A	B	C	Kg.	Modelo Model	A	B	C	Kg.	Modelo Model	A	B	C	Kg.
80	3"	ADA 80	177	355	111	16	ASR 200	299	383	135.5	20,5	ASR 200	299	383	135.5	20,5	ASR 200	299	383	135.5	20,5
100	4"	ADA 130	196	386	122	21	ASR 200	299	404	135.5	24,5	ASR 300	348.5	421	152.5	28	ASR 300	348.5	421	152.5	28
125	5"	ADA 200	225	445	135.5	33	ASR 300	348.5	462	152.5	38	ASR 300	348.5	462	152.5	38	ASR 300	348.5	642	152.5	38
150	6"	ADA 300	273	482	152.5	41,5	ASR 500	397	499	173	48,5	ASR 850	473	521	191.5	55,5	ASR 850	473	521	191.5	55,5
200	8"	ADA 500	304	539	173	64,5	ASR 850	473	561	191.5	75,5	ASR 1200	560	589	212.5	87,5	ASR 1200	560	589	212.5	87,5
250	10"	ADA 850	372	613	191.5	100	ASR 1200	560	641	212.5	117,5	ASR 1750	601	672	242.5	129	ASR 1750	601	672	242.5	129
300	12"	ADA 1200	439	683	212.5	148,5	ASR 1750	601	714	242.5	168,5	ASR 1750	601	714	242.5	168,5	ASR 2100	702	747	276.5	190,5
350	14"	ADA 1750	461	741	242.5	176,5	ASR 2100	702	774	276.5	212	ASR 2100	702	774	276.5	212	ASR 2500	738	844	356	244
400	16"	ADA 2100	510	789	276.5	249,5	ASR 2500	738	859	356	299,5	ASR 2500	738	859	356	299,5	ASR 2500	738	859	356	299,5
450	18"	ADA 2500	518	889	356	313	ASR 2500	738	889	356	343	ASR 2500	738	889	356	343	ASR 2500	738	889	356	343
500	20"	ADA 2500	518	953	356	366	ASR 2500	738	953	356	396	ASR 4000	940	1004	415	479	ASR 4000	940	1004	415	479
600	24"	ADA 2500	518	1013	356	532,5	ASR 4000	940	1064	415	645,5	ASR 4000	940	1064	415	645,5	ASR 4000	940	1064	415	645,5

