MONOBLOCK AISI 316L

NPT SW-BW



FIRE SAFE
ISO 10497:2010 *

FIRE SAFE
PTFE + CARBOGRAPHITE
BS 6755 - API 6 FA
API 607

Atex CE Ex II 2 G D*
* *on request*

800 - 1500 psi

PTFE



art. 2660X5...	F/F NPT 1/4" - 4"
art. 2662	SW 1/4" - 4"
art. 2663	BW 1/4" - 4"

3000 psi

DELRIN



art. 2655E5...	F/F NPT 1/4" - 4"
art. 2656E	SW 1/4" - 4"
art. 2657E	BW 1/4" - 4"

2300/1700/800 psi

PTFE + CARBOGRAPHITE



art. 2655D5...	F/F NPT 1/4" - 4"
art. 2656D4	SW 1/4" - 4"
art. 2657D4	BW 1/4" - 4"

MAIN STANDARD FEATURES:

- **CONSTRUCTION:** AISI 316L.
- **STANDARDS:** BS EN ISO 17292:2004.
- **CERTIFICATION:** FIRE SAFE according to BS 6755 – API 6 FA – API 607. (Only PTFE + CRB)
- **ON REQUEST: FIRE SAFE ANSI/API STD. 607 ISO 10497:2010**
  NACE MR 0.175 - on request
- **CONNECTIONS:** F/F NPT ANSI B1.20.1
  SW ANSI B16.11 socket weld
  BW ANSI B16.25 butt weld sch. 80 std.
  800-1500 psi sch.80 std.
  3000 psi sch.160 std.
- **PRESSURES:**
  SERIES 800 psi: 1/4" - 4" PTFE
  SERIES 1500 psi: 1/4" - 2" PTFE
- SERIES 2300/1700/800: 2300 psi 1/4" - 1" CARBOGRAPHITE
  1700 psi 1"1/4 - 2" CARBOGRAPHITE
  800 psi 2"1/2 - 4" CARBOGRAPHITE
  SERIES 3000 psi: 1/4" - 4" DELRIN (max 158°F).
- **TEMPERATURE LIMITS:** -4°F / +356°F - PTFE
  up to +392°F - PTFE+CARBOGRAPHITE
  (optimum from 104°F to 392°F).
  -4°F / +158°F - DELRIN.
- **STEM:** Anti blow out with anti-static device.
- **OPERATOR:** lever. Available colours: black, red.

GENERAL APPLICATIONS:

ON-OFF valve for: high pressures and temperatures in industrial plants, chemical and petrochemical installations, water and pneumatic installations, steam up to 392°F.
For special applications please check the suitability of the valve for the process and the required corrosion resistancy using the relevant table.

SPECIAL EXECUTIONS:

- **DEGREASED VALVES:** For oxygen service (max WP 290 psi).
- Ball with relief hole.
- Peek for high temperatures size up to +482°F (up to 2").
- Upon request, BW ANSI B16.25 butt weld sch40.
- **Locking device (open/close).**
- **Oval handwheel up to 1".**
- **Available on request with ISO 5211 drilling for actuation (with bracket)**
- For further special requests please consult our technical/ commercial service.

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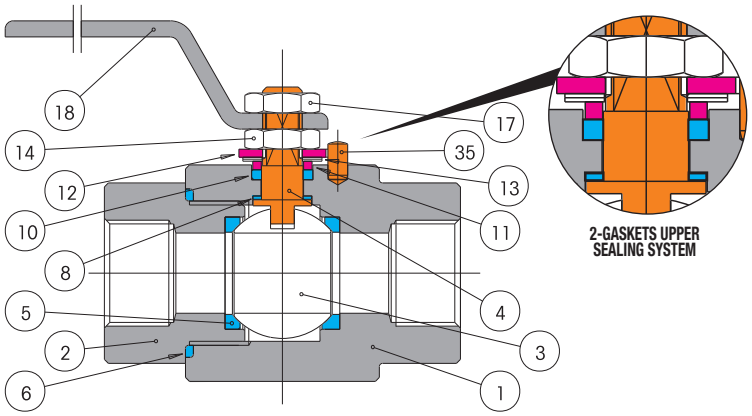
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MONOBLOCK
AISI 316L NPT SW-BW

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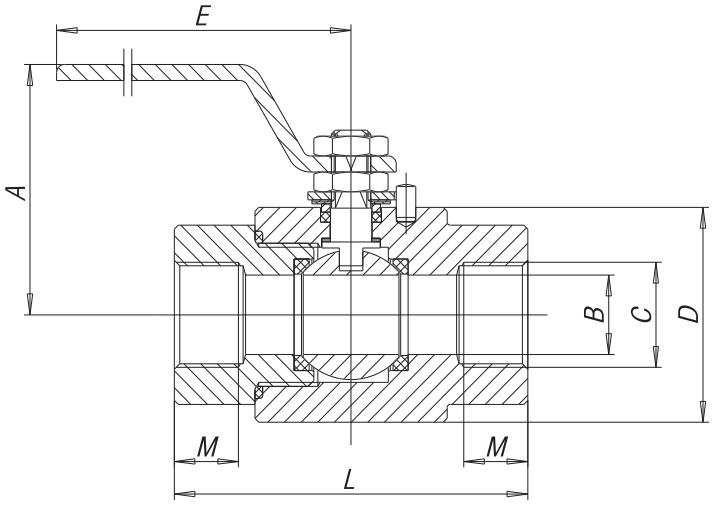
CONSTRUCTION

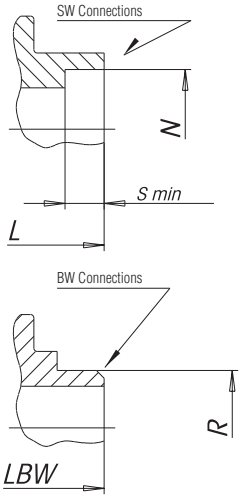


LIST OF COMPONENTS AND MATERIALS

1		BODY	AISI 316L	1
2		FEMALE END	AISI 316L	1
3		BALL	AISI 316L	1
4	●	STEM	AISI 316L	1
5	●	SEAT	PTFE	2
6	●	SIDE SEALING O-RING	VITON	1
8	●	UPPER SEALING RING	PTFE	2
10	●	UPPER SEAL	PTFE	1
11	●	GLAND WASHER	S.S.	1
12	●	STOP	S.S.	1
13		BELLEVILLE WASHERS	S.S.	2
14		STEM RETAINING NUT	S.S.	1
17		LOCKING NUT	S.S.	1
18		LEVER	S.S.	1
35	●	PIN	S.S.	1

SECTION





While welding the SW and BW extension nipples, cool the valve body in order not to damage the seals. The body temperature must NEVER exceed 248°F.
Slags and impurities must never penetrate inside the valve.

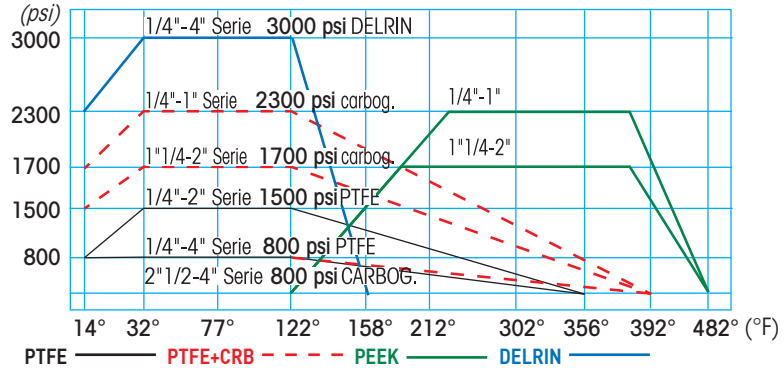
SIZE inch.	A	B	D	E	L	LBW	M	N	S	R	WEIGHT Lbf GAS	WEIGHT Lbf SW	WEIGHT Lbf BW	Cv
1/4"	2.83	0.39	1.65	5.81	2.63	3.73	0.43	0.56	0.37	0.54	1.34	1.34	1.39	12.7
3/8"	2.83	0.39	1.65	5.81	2.63	3.73	0.45	0.70	0.37	0.68	1.36	1.36	1.43	12.7
1/2"	2.95	0.59	1.96	5.81	2.95	4.12	0.59	0.86	0.37	0.84	2.05	2.05	2.31	23.1
3/4"	3.34	0.79	2.36	7.07	3.53	4.91	0.64	1.07	0.50	1.05	3.42	3.42	3.53	69.3
1"	3.73	0.98	2.67	7.07	4.12	5.50	0.75	1.34	0.50	1.31	4.99	4.99	5.18	115.6
1"1/4	3.93	1.18	3.18	9.42	4.71	6.28	0.84	1.68	0.50	1.66	7.28	7.28	7.50	150.2
1"1/2	4.12	1.49	3.69	9.42	5.30	7.07	0.84	1.92	0.50	1.90	10.69	10.69	11.90	196.5
2"	4.52	1.88	4.12	11.00	6.09	8.64	1.01	2.41	0.62	2.37	14.31	14.31	14.99	323.6
2"1/2	5.11	2.55	5.11	14.92	7.46	9.82	1.19	2.90	0.60	2.87	28.66	28.66	29.54	589.5
3"	5.69	2.87	5.89	14.92	8.05	11.00	1.31	3.53	0.62	3.49	37.48	37.48	38.58	890.1
4"	7.85	3.69	7.26	18.46	9.03	12.96	1.54	4.54	0.75	4.49	52.91	52.91	54.01	1387.2

BREAKAWAY TORQUES in Lbf/in.

psi \ size	10 1/4"-3/8"	15 1/2"	20 3/4"	25 1"	32 1"1/4	40 1"1/2	50 2"	65 2"1/2	80 3"	100 4"
0	88.5	106.2	141.6	185.8	477.9	575.2	761.1	1239	1619.5	2389.5
800	132.7	164.6	203.5	238.9	708	739.8	1120.4	1681.5	2124	3097.5
1500	150.4	200	223	261.9	778.8	822.1	1159.3	1858.5	2301	3442.6
2320	146	218.6	235.4	277	867.3	929.2	1283.2	2212.5	2699.2	4026.7
3000	207.1	244.2	265.5	307.9	973.5	1035.4	1416	3363	3800	4469.2

The values in Lbf/inch. may vary depending on the seat material, temperature and type of fluid.
A safety factor of 1,5 should be used (for PTFE).

PRESSURE/TEMPERATURE DIAGRAM



For Specifications about the Pressure-temperature Diagram and installation instructions