

**Reliable Intelligent
Flow Control**



BROEN BALLOMAX®
– quality valves for Natural Gas

**Dealing
with forces
of nature**





Contents

BROEN BALLOMAX®

BROEN Introduction	4 - 12
PIPELINE Regular Port Valves	13 - 16
PREMIUM Full Port Valves	17 - 20
PIPELINE Full Port Valves – Concave Ball	21 - 24
PIPELINE Full Port Valves – Straight Ball	25 - 28
TRUNNION MOUNTED Full Port Valves	29 - 32
API 6D 6FA Q1 Transmission Valves	33 - 36
BALLOTAP™ Hot Tapping Valves	37 - 38
FEMALE THREADED END Valves	39 - 40
UTILITY VALVE Flanged Ball Valves	41 - 42
FILTER VALVE	43 - 44
POLYETHYLENE Ball Valves	45 - 46
COMPONENTS AND MATERIAL	47
CUTAWAY STEM	48
SEAT SPECIFICATION	49
TURNING TORQUE	50
PRESSURE LOSS DIAGRAM Full Port Valves	51
PRESSURE LOSS DIAGRAM Regular Port Valves	52
PRESSURE LOSS DIAGRAM 2" FP Strainer Valves	53

**Dealing
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of nature**

BROEN – a global partner with local presence

BROEN is an international company with exports to over 50 countries. We have 8 manufacturing facilities worldwide to serve you. This assures you easy access to our products and local knowledge to meet your valve needs.

Worldwide we employ more than 1000 skilled employees within our facilities. Building strong relations with our customers gives BROEN a flexible and loyal foundation for servicing our customers in the best possible way.

At BROEN we are always focused on innovation and total solutions, for the benefit of mankind in our daily lives. We constantly gain knowledge and experience to be used for creating new initiatives and products.

BROEN is a fully owned subsidiary of Aalberts Industries, NV, who operates in the main areas of Industrial Services and Flow Control.



You can find further information on www.broen.com or www.aalberts.com



BROEN BALLOMAX®

BROEN's 5 business areas

BROEN's products are present throughout the world. Our intelligent flow solutions make it possible to control a variety of media, including Natural Gas, Hot or Cold Water, and Air, above ground, below ground, or in mechanical rooms. Technology and knowledge are essential to our product development in the 5 business areas of: Building Installation, Business Controls, District Heating and Natural Gas, Lab and Emergency Shower Systems.

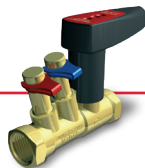
6 decades of experience, combined with insight and innovation has made us the world leader within our business areas.

Our challenge is to constantly seek solutions to improve designs, make products more user friendly, and insure product safety.

The products from the 5 business areas are produced to the highest quality standards for any new installation or existing system. We work closely with our customers to provide the best possible solutions for longevity of their system.



BUILDING
INSTALLATIONS



BUILDING
CONTROLS



DISTRICT
HEATING & GAS



LAB



EMERGENCY
SHOWER SYSTEMS

Dealing with forces of nature

BROEN based on 4 strong values

Strong values – Strong solutions

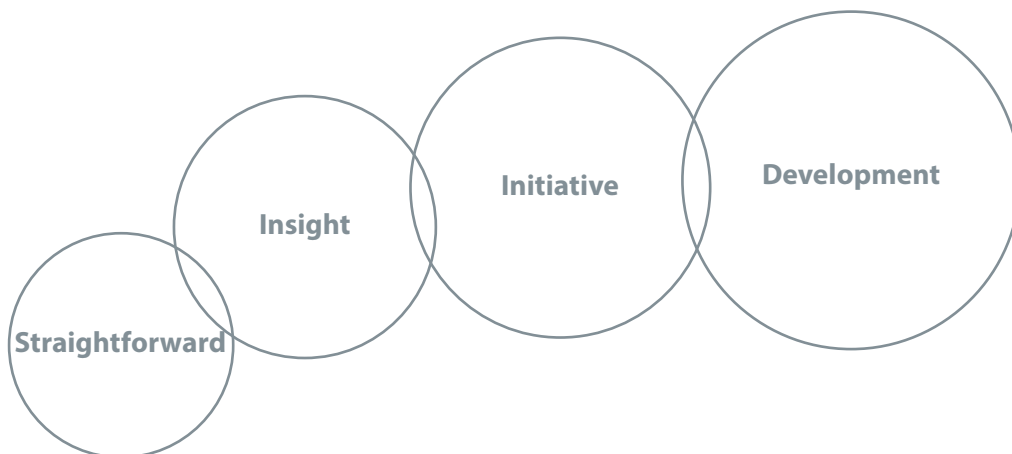
BROEN is based on 4 strong values which all together create a common foundation for our employees, and the people we work with. Our values: Straightforward, insight, initiative and development play an active role in our every day life, and are recognizable in all we do. We use these values to focus on new product development, strong customer relationships, and viable solutions to the industries needs.

Straightforward, means that we weigh honesty and use common language to communicate with our customers. Our interest is to always be available to conquer challenges.

Insight into the market and into the needs of our customer means that we will meet you at eye level to assist you in creating complete and optimum solutions.

We take the **initiative** in cooperation with our customers, we act proactively, share our knowledge, and are always on top of your expectations to find the final solutions to your needs.

The **development** has high priority at BROEN. From the start we have continuously invested in developing new products, and improving our existing product range.





BROEN BALLOMAX® approved for the business

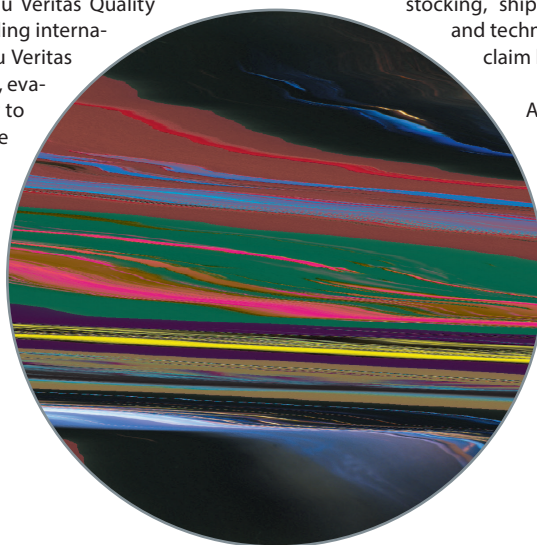
BROEN Valve Group at BROEN A/S in Assens is producing ball valves and accessories for Natural Gas and Industrial applications all over the world. We are a certified ISO 9001 company.

The ISO certification is approved by Bureau Veritas Quality International Ltd., London, which is the leading international authority on ISO certification. Bureau Veritas audits each of our facilities yearly to analyze, evaluate, and assure you that we manufacture to the highest standards and provides that we meet the highest demands for Quality Management.

ISO 9001 is the hardest approval to achieve within the ISO 9000 standards.

It fulfills the demands according to EN29001 and BS 5750 part 1, which includes all processes of the production flow and customer service – from the very first product idea, through to drawings, materials, production, as well as inspections and testing procedures, the stocking, shipping, employee education, contracts and technical documentation, maintenance, and claim handling.

Along with ISO we meet or exceed any and all requirement of API, MSS, ANSI, ASTM, NACE, or other organizations that have applicable standards for specific products.





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BROEN BALLOMAX® designed specifically for the purpose

BROEN BALLOMAX® Fully Welded carbon steel ball valves are designed specifically for controlling all neutral, flowing medias as well as air. We concentrate in the areas of natural gas, district heating and cooling, and industrial applications.

BROEN BALLOMAX® ball valves fulfills the demands in EN 488 and are tested and labeled in accordance to API 6-D. All pressure carrying parts are made of materials with test certificates in accordance with EN 10 204 – 3.1.B. Modern advanced production methods using fully automatic welding robotics assure you that BROEN BALLOMAX ball valves are of the highest quality and completely maintenance free.

The control of the media is provided by a precision ground and polished stainless steel ball, against PTFE seats that are self lubricating and self healing, which ensures low friction and superior sealing. The ¼ turn, floating ball is self centering and PTFE seals are backed up with springs and retainers to ensure constant contact pressure against the ball for bubble tight sealing.

Our valves come standard with stainless steel balls and stems to eliminate corrosion, and a zinc coated stem bearing to eliminate static discharge.

Installation

All BROEN BALLOMAX® carbon steel ball valves with weld ends can be installed in your system using common ASTM welding procedures. Welding should be performed with the ball in the open position to eliminate weld splatter on the ball, and multiple weld passes with cooling times respected to prevent burning the PTFE seats. It is not recommended to shorten the length of the valve, since the length is designed to insure that the transfer of heat has no effect on the sealing capabilities of the valve.

This catalogue has been designed to provide all necessary information concerning design, choice of material, dimensions, and other technical information. You may request a full “Technical Manual” providing more specific details upon request.



BROEN BALLOMAX®

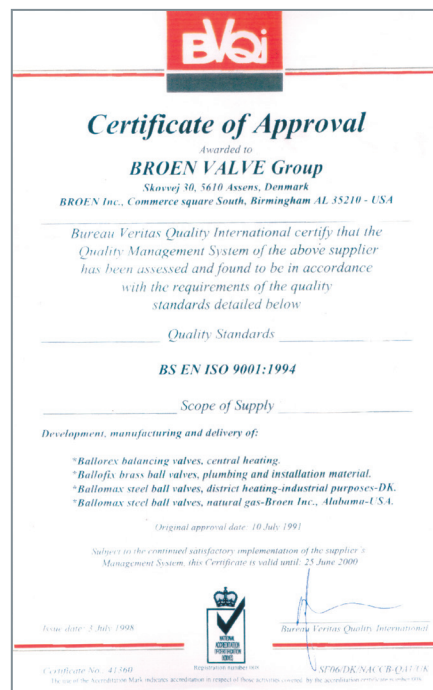
BROEN BALLOMAX® Code Compliance

BROEN BALLOMAX® valves meet or exceed the requirements of ANSI 150/285-300/740, API-6D, MMS-SP72 and DOT Title 49, part 192, and are produced in accordance with ISO 9001, a total quality management system. BROEN BALLOMAX® valves are hydrostatically tested per API-6D with a supplementary air test per ISO 5208.

Further approvals:



EN 488





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BROEN BALLOMAX® Quality Assurance

BROEN BALLOMAX® Non-Lubricated Steel Ball Valves Noteworthy Design Features and Code Compliance's

- BROEN BALLOMAX® Valves size range $\frac{3}{4}$ " – 24".
- BROEN BALLOMAX® Valves utilizes a non-toxic water-based primer. The BROEN BALLOMAX® primer is user friendly and environmentally safe both in production and field applications. Specialty Coatings available at customers request.
- BROEN BALLOMAX® Valves unique serial numbers are permanently stamped and are traceable to material physical and chemical test reports per API-6D Section 6, Table 6.1, Item 12, Note 3, which states "each valve shell have a unique serial number for accountability and traceability purposes.
- BROEN BALLOMAX® Valves are equipped with a locking flange (Lock on/Lock off) which complies with API-6D Sections 2.14 & 2.15 which states "shall be furnished with a visible means of position indication". The BALLOMAX engineered locking flange offers a distinct advantage. Our PowerStopp, incorporated in the locking flange is standard on $\frac{3}{4}$ " through 8" valves with an excessive break torque listed on our table on page 35.
- BROEN BALLOMAX® Valves can accommodate a standard barrel lock or standard pad locks.
- BROEN BALLOMAX® hydrostatic test certification is provided with each valve. The "hydrostatic test" are per API-6D Section 5, Par. 5.1, 5.2 and 5.3. An additional air test per ISO 5208 is standard procedure and is performed in addition to our API-6D test on each valve. Additional custom testing is available at the customer's request with minimal charge.
- BROEN BALLOMAX® Valves are equipped with a "Safety grounded stem" as "UL" requires for flammable gasses. This removes any potential for a static build-up and resulting arc.
- BROEN BALLOMAX® weld ends are A106 Gr. B. Flanges are ANSI B16.5 A105 Gr. B. and so marked in accordance w/API-6D section 2.6 A.



BROEN BALLOMAX®

BROEN BALLOMAX® – Catalog numbering system

1. Size

2. BROEN BALLOMAX® (BM)

3. End Configuration

W (weld end)
F (flanged end)
WF (weld x flange)
HT (hot tap)

4. Pressure

285, 500, 740, 1480

5. Valve style

PL (Pipeline)
PR (Premium)
TR (Trunnion Mounted)
API (API Certified)

6. Port

RP (regular port)
FP (full port)

7. Ball

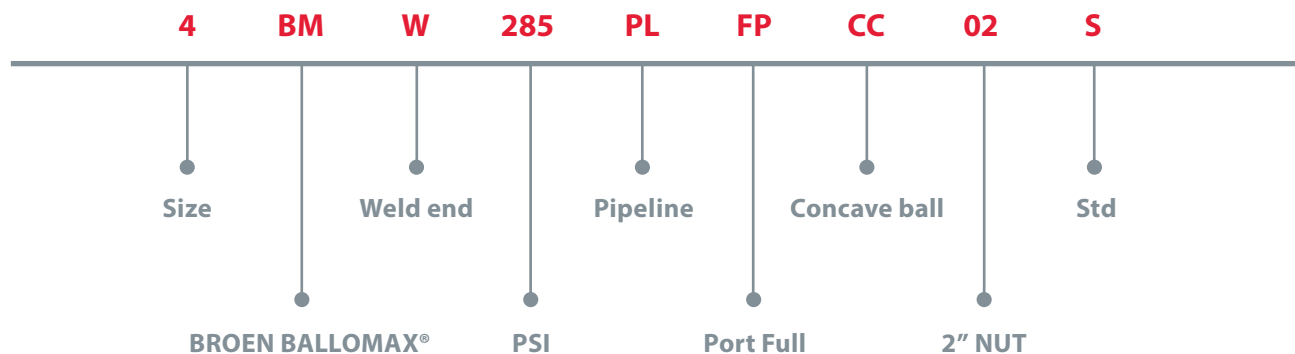
CC (concave ball)
SB (straight ball)

8. Operator

02 (curb nut)
14 (2" nut)
HG (Horizontal Gear)
VG (Vertical Gear)

9. Paint

S (standard water base)
3M (3M 323)
B (Coal Tar Enamel)



**“Handling Natural Gas is a matter of Safety,
Reliability and Durability - for the protection of the
workers and our citizens that depend on this
energy source. BROEN is a World Leader in this respect”**

Mr. Ben Marchisio, President BROEN USA



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BROEN BALLOMAX® PIPELINE



* 3/4", 1", 1-1/4" and 2" available
with male threaded ends

PIPELINE

Regular Port Floating Ball Valve

Fully Welded, Carbon Steel, Regular Port Floating Ball Valves, Designed specifically for Natural Gas.

Manufactured from the same pipe material as your pipeline, they can be used in below ground or above ground applications.

These valves feature:

- 304 Stainless Steel Balls and Stem STANDARD
- 1/4 turn operations
- Locking Plate with POWERSTOPPS™ 600 ft/lbs
- Seats of 25% Carbonized PTFE (Teflon™) (G-453) rated to -20F
- Zinc coated Stem Bearings
- Serial numbered for full traceability



BROEN BALLOMAX® PIPELINE, Regular Port – 285 MAOP – ANSI 150

WELD X WELD – 285 PSI – ANSI 150

	Size	Catalog number	Port	Length	Wall	Weight
	3/4" curb nut	3/4BMW285PLRPSB02S	0.59	9.02	0.113	2.9
	3/4"	3/4BMW285PLRPSB14S	0.59	9.02	0.113	4.9
	1" curb nut	1BMW285PLRPSB02S	0.79	9.06	0.133	3.5
	1"	1BMW285PLRPSB14S	0.79	9.06	0.133	6.0
	1-1/4"	5/4BMW285PLRPSB14S	1.00	10.24	0.140	6.0
	2"	2BMW285PLRPCB14S	1.57	11.81	0.154	10.0
	3"	3BMW285PLRPCB14S	2.56	14.60	0.216	18.0
	4"	4BMW285PLRPCB14S	3.15	15.35	0.237	25.0
	6"	6BMW285PLRPCB14S	4.90	15.40	0.280	56.0
	8" w/nut	8BMW285PLRPCB14S	5.75	15.40	0.322	131.0
	* 8"	8BMW285PLRPCBHGS	5.75	15.40	0.322	161.0
	** 10"	10BMW285PLRPCBHGS	7.68	24.80	0.365	252.0
	** 12"	12BMW285PLRPCBHGS	9.65	27.95	0.375	431.0
	** 16"	16BMW285PLRPCBHGS	13.39	33.86	0.375	1300.0
	** 20"	20BMW285PLRPCBHGS	15.35	39.00	0.375	1345.0

WELD X FLANGE – 285 PSI – ANSI 150

	Size	Catalog number	Port	Length	Wall	Weight
	2"	2BMWF285PLRPCB14S	1.57	9.50	0.154	16.0
	3"	3BMWF285PLRPCB14S	2.56	12.20	0.216	25.1
	4"	4BMWF285PLRPCB14S	3.15	13.10	0.237	25.7
	6"	6BMWF285PLRPCB14S	4.90	13.70	0.280	77.0
	8" w/nut	8BMWF285PLRPCB14S	5.75	15.90	0.322	130.0
	* 8"	8BMWF285PLRPCBHGS	5.75	15.90	0.322	160.0
	** 10	10BMWF285PLRPCBHGS	7.68	25.30	0.365	295.0
	** 12"	12BMWF285PLRPCBHGS	9.65	28.45	0.375	495.0
	** 16"	16BMWR285PLRPCBHGS	13.40	34.36	0.375	1400.0

FLANGE X FLANGE – 285 PSI – ANSI 150

	Size	Catalog number	Port	Length	ANSI	Weight
	2"	2BMF285PLRPCB14S	1.57	7.00	150	18.0
	3"	3BMF285PLRPCB14S	2.56	8.00	150	31.0
	4"	4BMF285PLRPCB14S	3.15	9.00	150	43.0
	6"	6BMF285PLRPCB14S	4.90	10.50	150	81.0
	8" w/nut	8BMF285PLRPCB14S	5.75	11.50	150	158.0
	* 8"	8BMF285PLRPCBHGS	5.75	11.50	150	188.0
	** 10"	10BMF285RPCBHGS	7.68	21.00	150	320.0
	** 12"	12BMF285RPCBHGS	9.65	24.00	150	513.0
	** 16"	16BMF285RPCBHGS	13.39	30.00	150	959.0
	** 20"	20BMF285RPCBHGS	15.35	36.00	150	1781.0



WELD X WELD – 500 PSI

	Size	Catalog number	Port	Length	Wall	Weight
	3/4 curb nut	3/4BMW500PLRPSB02S	0.59	9.02	0.113	4.9
	3/4"	3/4BMW500PLRPSB14S	0.59	9.02	0.113	5.9
	1" curb nut	1BMW500PLRPSB02S	0.79	9.06	0.133	6.0
	1"	1BMW500PLRPSB14S	0.79	9.06	0.133	7.0
	1-1/4"	5/4BMW500PLRPSB14S	1.00	10.24	0.140	6.0
	2"	2BMW500PLRPCB14S	1.57	11.81	0.154	10.0
	3"	3BMW500PLRPCB14S	2.56	14.60	0.216	18.0
	4"	4BMW500PLRPCB14S	3.15	15.40	0.237	25.0
	6"	6BMW500PLRPCB14S	4.90	15.40	0.280	56.0
	8" w/nut	8BMW500PLRPCB14S	5.75	15.40	0.322	120.0
	* 8"	8BMW500PLRPCBHGS	5.75	15.40	0.322	150.0

WELD X FLANGE – 500 PSI

	Size	Catalog number	Port	Length	Wall	Weight
	2"	2BMWF500PLRPCB14S	1.57	10.16	0.154	15.8
	3"	3BMWF500PLRPCB14S	2.56	12.85	0.216	30.0
	4"	4BMWF500PLRPCB14S	3.15	13.68	0.237	45.4
	6"	6BMWF500PLRPCB14S	4.90	15.87	0.280	87.5
	8" w/nut	8BMWF500PLRPCB14S	5.75	15.90	0.322	138.0
	* 8"	8BMWF500PLRPCBHGS	5.75	15.90	0.322	

FLANGE X FLANGE – 500 PSI

	Size	Catalog number	Port	Length	ANSI	Weight
	2"	2BMF500PLRPCB14S	1.57	8.50	300	22.0
	3"	3BMF500PLRPCB14S	2.56	11.125	300	41.0
	4"	4BMF500PLRPCB14S	3.15	12.00	300	61.0
	6"	6BMF500PLRPCB14S	4.90	15.87	300	92.0
	8" w/nut	8BMF500PLRPCB14S	5.75	16.50	300	165.0
	* 8"	8BMF500PLRPCBHGS	5.75	16.50	300	195.0

* With optional Horizontal Gear Operator

** Standard with Horizontal Gear Operator



BROEN BALLOMAX® PIPELINE, Regular Port – 740 MAOP – ANSI 300

WELD X WELD – 740 PSI – ANSI 300

	Size	Catalog number	Port	Length	Wall	Weight
	3/4"curb nut	3/4BMW740PLRPSB02S	0.59	9.02	0.113	2.9
	3/4"	3/4BMW740PLRPSB14S	0.59	9.02	0.113	4.9
	1" curb nut	1BMW740PLRPSB02S	0.79	9.06	0.133	3.5
	1"	1BMW740PLRPSB14S	0.79	9.06	0.133	6.0
	1-1/4"	5/4BMW740PLRPSB14S	1.00	10.24	0.140	8.0
	2"	2BMW740PLRPCB14S	1.57	11.81	0.154	12.5
	3"	3BMW740PLRPCB14S	2.56	14.57	0.216	25.2
	4"	4BMW740PLRPCB14S	3.15	15.40	0.237	35.3
	6"	6BMW740PLRPCB14S	4.90	15.40	0.280	69.8
	8" w/nut	8BMW740PLRPCB14S	5.75	15.40	0.322	131.0
	* 8"	8BMW740PLRPCBHGS	5.75	15.40	0.322	161.0

WELD X FLANGE – 740 PSI – ANSI 300

	Size	Catalog number	Port	Length	Wall	Weight
	2"	2BMWF740PLRPCB14S	1.57	10.16	0.154	18.6
	3"	3BMWF740PLRPCB14S	2.56	12.85	0.216	37.3
	4"	4BMWF740PLRPCB14S	3.15	13.68	0.237	55.7
	6"	6BMWF740PLRPCB14S	4.90	15.61	0.280	103.8
	8" w/nut	8BMWF740PLRPCB14S	5.75	15.90	0.322	189.0
	* 8"	8BMWF740PLRPCBHGS	5.75	15.90	0.322	217.0

FLANGE X FLANGE – 740 PSI – ANSI 300

	Size	Catalog number	Port	Length	ANSI	Weight
	2"	2BMF740PLRPCB14S	1.57	8.50	300	24.7
	3"	3BMF740PLRPCB14S	2.56	11.13	300	49.3
	4"	4BMF740PLRPCB14S	3.15	12.00	300	74.8
	6"	6BMF740PLRPCB14S	4.90	15.87	300	139.0
	8" w/nut	8BMF740PLRPCB14S	5.75	16.50	300	247.0
	* 8"	8BMF740PLRPCBHGS	5.75	16.50	300	277.0

* With optional Horizontal Gear Operator

** Standard with Horizontal Gear Operator

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BROEN BALLOMAX® PREMIUM



PREMIUM

Full Port Floating Ball Valve

Fully Welded, High Strength Machined Carbon Steel, Full Port Floating Ball Valves, Designed Specifically for Natural Gas Distribution Systems. Short Pattern design is ideal for Meter and Regulator Stations to shorten and compact designs. Every valve is API 6D tested at the factory

Manufactured from high strength machined carbon steel material, they can be used in below ground or above ground applications

These valves feature:

- 304 Stainless Steel Balls and Stem STANDARD
- ¼ turn operations
- Locking Plate with POWERSTOPPS™ 600 ft/lbs
- Seats of 25% Carbonized PTFE (Teflon™) (G-453) rated to -20F
- Zinc coated Stem Bearings
- Tested to API-6D certifications
- Serial Numbered for full traceability



BROEN BALLOMAX® PREMIUM, Full Port – 285 MAOP – ANSI 150

WELD X WELD – 285 PSI – ANSI 150

	Size	Catalog number	Port	Length	Wall	Weight
	2"	2BMW285PRFPCB14S	1.93	7.00	0.154	12.5
	3"	3BMW285PRFPCB14S	3.07	9.00	0.216	22.9
	4"	4BMW285PRFPCB14S	3.86	9.75	0.237	34.8
	6"	6BMW285PRFPCB14S	5.75	15.50	0.280	110.0
	8"	8BMW285BFPCBHGS	7.87	20.50	0.322	

WELD X FLANGE – 285 PSI – ANSI 150

	Size	Catalog number	Port	Length	Wall	Weight
	2"	2BMWF285PRFPCB14S	1.93	7.00	0.154	17.3
	3"	3BMWF285PRFPCB14S	3.07	9.20	0.216	3.0
	4"	4BMWF285PRFPCB14S	3.86	10.39	0.237	43.8
	6"	6BMWF285PRFPCB14S	5.75	15.50	0.280	13.0
	8"	8BMWF285BFPCBHGS	7.87	21.00	0.322	266.0

FLANGE X FLANGE – 285 PSI – ANSI 150

	Size	Catalog number	Port	Length	ANSI	Weight
	2"	2BMF285PRFPCB14S	1.93	7.00	150	22.3
	3"	3BMF285PRFPCB14S	3.07	8.00	150	41.0
	4"	4BMF285PRFPCB14S	3.86	9.00	150	56.8
	6"	6BMF285PRFPCB14S	5.75	15.50	150	150.0
	8"	8BMF285BFPCBHGS	7.87	21.50	150	296.0

BROEN BALLOMAX® PREMIUM, Full Port – Concave Ball – 500 PSI



WELD X WELD – 500 PSI

	Size	Catalog number	Port	Length	Wall	Weight
	2"	2BMW500PRFPCB14S	1.93	7.00	0.154	12.5
	3"	3BMW500PRFPCB14S	3.07	9.00	0.216	22.9
	4"	4BMW500PRFPCB14S	3.86	9.75	0.237	34.8
	6"	6BMW500PRFPCB14S	5.75	15.50	0.280	110.0
	8"	8BMW500BFPCBHGS	7.87	20.50	0.322	

WELD X FLANGE – 500 PSI

	Size	Catalog number	Port	Length	Wall	Weight
	2"	2BMWF500PRFPCB14S	1.93	7.75	0.154	19.0
	3"	3BMWF500PRFPCB14S	3.07	9.20	0.216	36.8
	4"	4BMWF500PRFPCB14S	3.86	10.88	0.237	55.0
	6"	6BMWF500PRFPCB14S	5.75	16.69	0.280	147.0
	8"	8BMWF500BFPCBHGS	7.87	21.00	0.322	291.0

FLANGE X FLANGE – 500 PSI

	Size	Catalog number	Port	Length	ANSI	Weight
	2"	2BMF500PRFPCB14S	1.93	8.50	300	26.0
	3"	3BMF500PRFPCB14S	3.07	11.13	300	50.3
	4"	4BMF500PRFPCB14S	3.86	12.00	300	71.0
	6"	6BMF500PRFPCB14S	5.75	15.88	300	180.0
	8"	8BMF500BFPCBHGS	7.87	21.50	300	346.0



BROEN BALLOMAX® PREMIUM, Full Port – Concave Ball – 740 MAOP – ANSI 300

WELD X WELD – 740 PSI – ANSI 300

	Size	Catalog number	Port	Length	Wall	Weight
	2"	2BMW740PRFPCB14S	1.93	7.00	0.154	12.5
	3"	3BMW740PRFPCB14S	3.07	9.00	0.216	22.9
	4"	4BMW740PRFPCB14S	3.86	9.75	0.237	34.8
	6"	6BMW740PRFPCB14S	5.75	15.50	0.280	110.0
	8"	8BMW740KFPCBHGS	7.87	20.50	0.322	236.0

WELD X FLANGE – 740 PSI – ANSI 300

	Size	Catalog number	Port	Length	Wall	Weight
	2"	2BMWF740PRFPCB14S	1.93	7.75	0.154	19.0
	3"	3BMWF740PRFPCB14S	3.07	8.50	0.216	36.8
	4"	4BMWF740PRFPCB14S	3.86	10.88	0.237	55.0
	6"	6BMWF740PRFPCB14S	5.75	15.69	0.280	147.0
	8"	8BMWF740KFPCBHGS	7.87	21.00	0.322	291.0

FLANGE X FLANGE – 740 PSI – ANSI 300

	Size	Catalog number	Port	Length	ANSI	Weight
	2"	2BMF740PRFPCB14S	1.93	8.50	300	26.0
	3"	3BMF740PRFPCB14S	3.07	11.13	300	50.3
	4"	4BMF740PRFPCB14S	3.86	12.00	300	71.0
	6"	6BMF740PRFPCB14S	5.75	15.88	300	180.0
	8"	8BMF740KFPCBHGS	7.87	21.50	300	346.0

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BROEN BALLOMAX® PIPELINE

Concave Ball



PIPELINE – Concave Ball Full Port Floating Ball Valve

Economical, Fully Welded, Carbon Steel Full, Port Floating Ball Valves, Designed Specifically for Natural Gas Distribution Systems, Meter and Regulator Stations.

Manufactured from the same pipe material as your pipeline, they can be used in below ground or above ground applications.

These valves feature:

- 304 Stainless Steel Balls and Stem STANDARD
- ¼ turn operations
- Locking Plate with POWERSTOPPS™ 600 ft/lbs
- Seats of 25% Carbonized PTFE (Teflon™) (G-453) rated to -20F
- Zinc coated Stem Bearings
- Serial Numbered for full traceability
- Available in **Concave Ball** or Straight Ball Design



BROEN BALLOMAX® PIPELINE, Full Port – Concave Ball – 285 MAOP – ANSI 150

WELD X WELD – 285 PSI – ANSI 150

	Size	Catalog number	Port	Length	Wall	Weight
	2"	2BMW285PLFPCB14S	1.93	11.81	0.154	12.5
	4"	4BMW285PLFPCB14S	3.86	15.40	0.237	34.8
	6"	6BMW285PLFPCB14S	5.75	15.88	0.280	110.0

WELD X FLANGE – 285 PSI – ANSI 150

	Size	Catalog number	Port	Length	Wall	Weight
	2"	2BMWF285PLFPCB14S	1.93	10.16	0.154	17.3
	4"	4BMWF285PLFPCB14S	3.86	13.10	0.237	43.8
	6"	6BMWF285PLFPCB14S	5.75	15.88	0.280	130.0

FLANGE X FLANGE – 285 PSI – ANSI 150

	Size	Catalog number	Port	Length	ANSI	Weight
	2"	2BMF285PLFPCB14S	1.93	8.50	150	22.3
	4"	4BMF285PLFPCB14S	3.86	12.00	150	56.8
	6"	6BMF285PLFPCB14S	5.75	15.88	150	150.0

BROEN BALLOMAX® PIPELINE, Full Port – Concave Ball – 500 PSI



WELD X WELD – 500 PSI

	Size	Catalog number	Port	Length	Wall	Weight
	2"	2BMW500PLFPCB14S	1.93	11.81	0.154	12.5
	4"	4BMW500PLFPCB14S	3.86	15.40	0.237	34.8
	6"	6BMW500PLFPCB14S	5.75	15.88	0.280	110.0

WELD X FLANGE – 500 PSI

	Size	Catalog number	Port	Length	Wall	Weight
	2"	2BMWF500PLFPCB14S	1.93	10.16	0.154	19.0
	4"	4BMWF500PLFPCB14S	3.86	13.10	0.237	55.0
	6"	6BMWF500PLFPCB14S	5.75	15.88	0.280	147.0

FLANGE X FLANGE – 500 PSI

	Size	Catalog number	Port	Length	ANSI	Weight
	2"	2BMF500PLFPCB14S	1.93	8.50	300	26.0
	4"	4BMF500PLFPCB14S	3.86	13.10	300	71.0
	6"	6BMF500PLFPCB14S	5.75	15.88	300	180.0



BROEN BALLOMAX® PIPELINE, Full Port – Concave Ball –740 MAOP – ANSI 300

WELD X WELD – 740 PSI – ANSI 300

	Size	Catalog number	Port	Length	Wall	Weight
	2"	2BMW740PLFPCB14S	1.93	11.81	0.154	12.5
	4"	4BMW740PLFPCB14S	3.86	15.40	0.237	34.8
	6"	6BMW740PLFPCB14S	5.75	15.88	0.280	110.0

WELD X FLANGE – 740 PSI – ANSI 300

	Size	Catalog number	Port	Length	Wall	Weight
	2"	2BMWF740PLFPCB14S	1.93	10.16	0.154	19.0
	4"	4BMWF740PLFPCB14S	3.86	13.10	0.237	55.0
	6"	6BMWF740PLFPCB14S	5.75	15.88	0.280	147.0

FLANGE X FLANGE – 740 PSI – ANSI 300

	Size	Catalog number	Port	Length	ANSI	Weight
	2"	2BMF740PLFPCB14S	1.93	8.50	300	26.0
	4"	4BMF740PLFPCB14S	3.86	12.00	300	71.0
	6"	6BMF740PLFPCB14S	5.75	15.88	300	180.0

Dealing
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BROEN BALLOMAX® PIPELINE

Straight Ball



PIPELINE – Straight Ball Full Port Floating Ball Valve

Economical, Fully Welded, Carbon Steel Full, Port Floating Ball Valves, Designed Specifically for Natural Gas Distribution Systems, Meter and Regulator Stations. Straight Ball is for Compliance and smart pigging on lines.

Manufactured from the same pipe material as your pipeline, they can be used in below ground or above ground applications.

These valves feature:

- 304 Stainless Steel Balls and Stem STANDARD
- ¼ turn operations
- Locking Plate with POWERSTOPPS™ 600 ft/lbs
- Seats of 25% Carbonized PTFE (Teflon™) (G-453) rated to -20F
- Zinc coated Stem Bearings
- Serial Numbered for full traceability
- Available in Concave Ball or **Straight Ball** Design



BROEN BALLOMAX® PIPELINE, Full Port – Straight Ball – 285 MAOP – ANSI 150

WELD X WELD – 285 PSI – ANSI 150

	Size	Catalog number	Port	Length	Wall	Weight
	2"	2BMW285PLFPSB14S	1.93	11.81	0.154	14.0
	4"	4BMW285PLFPSB14S	3.86	15.40	0.237	35.0
	6"	6BMW285PLFPSB14S	5.75	15.88	0.280	107.0

WELD X FLANGE – 285 PSI – ANSI 150

	Size	Catalog number	Port	Length	Wall	Weight
	2"	2BMWF285PLFPSB14S	1.93	10.16	0.154	19.0
	4"	4BMWF285PLFPSB14S	3.86	13.10	0.237	47.0
	6"	6BMWF285PLFPSB14S	5.75	15.88	0.280	124.0

FLANGE X FLANGE – 285 PSI – ANSI 150

	Size	Catalog number	Port	Length	ANSI	Weight
	2"	2BMF285PLFPSB14S	1.93	8.50	150	24.0
	4"	4BMF285PLFPSB14S	3.86	12.00	150	59.0
	6"	6BMF285PLFPSB14S	5.75	15.88	150	141.0

BROEN BALLOMAX® PIPELINE, Full Port – Straight Ball – 500 PSI



WELD X WELD – 500 PSI

	Size	Catalog number	Port	Length	Wall	Weight
	2"	2BMW500PLFPSB14S	1.93	11.81	0.154	14.0
	4"	4BMW500PLFPSB14S	3.86	15.40	0.237	35.0
	6"	6BMW500PLFPSB14S	5.75	15.88	0.280	107.0

WELD X FLANGE – 500 PSI

	Size	Catalog number	Port	Length	Wall	Weight
	2"	2BMWF500PLFPSB14S	1.93	10.16	0.154	21.0
	4"	4BMWF500PLFPSB14S	3.86	13.10	0.237	56.0
	6"	2BMWF500PLFPSB14S	5.75	15.88	0.280	144.0

FLANGE X FLANGE – 500 PSI

	Size	Catalog number	Port	Length	ANSI	Weight
	2"	2BMF500PLFPSB14S	1.93	8.50	300	28.0
	4"	4BMF500PLFPSB14S	3.86	12.00	300	77.0
	6"	6BMF500PLFPSB14S	5.75	15.88	300	181.0



BROEN BALLOMAX® PIPELINE, Full Port – Straight Ball – 740 MAOP – ANSI 300

WELD X WELD – 740 PSI – ANSI 300

	Size	Catalog number	Port	Length	Wall	Weight
	2"	2BMW740PLFPSB14S	1.93	11.81	0.154	14.0
	4"	4BMW740PLFPSB14S	3.86	15.40	0.237	35.0
	6"	6BMW740PLFPSB14S	5.75	15.88	0.280	107.0

WELD X FLANGE – 740 PSI – ANSI 300

	Size	Catalog number	Port	Length	Wall	Weight
	2"	2BMWF740PLFPSB14S	1.93	10.16	0.154	21.0
	4"	4BMWF740PLFPSB14S	3.86	13.10	0.237	56.0
	6"	6BMWF740PLFPSB14S	5.75	15.88	0.280	144.0

FLANGE X FLANGE – 740 PSI – ANSI 300

	Size	Catalog number	Port	Length	ANSI	Weight
	2"	2BMF740PLFPSB14S	1.93	8.50	300	28.0
	4"	4BMF740PLFPSB14S	3.86	12.00	300	77.0
	6"	6BMF740PLFPSB14S	5.75	15.88	300	181.0

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BROEN BALLOMAX®

TRUNNION MOUNTED



TRUNNION MOUNTED

Full Port Ball Valve

Fully Welded, Full Port, Straight Ball, Trunnion Mounted Ball Valves, Designed Specifically for Natural Gas Distribution and Transmission Systems. Trunnion Mounted to assist with high differential pressure situations.

Manufactured from high grade carbon steel material, they can be used in below ground or above ground applications.

These valves feature:

- 304 Stainless Steel Balls and Stem STANDARD
- Std. Horizontal Gear Operator or Opt. Vertical Gear Operator
- Positive Stops
- Seats of 25% Carbonized PTFE (Teflon™) (G-453) rated to -20F
- Zinc coated Stem Bearings
- Serial numbered for full traceability
- Trunnion Mounted, 100% Full Port
- API 6D Tested



BROEN BALLOMAX® TRUNNION MOUNTED, Full Port – Straight Ball – Gear Operated – 285 MAOP – ANSI 150

WELD X WELD – 285 PSI – ANSI 150

	Size	Catalog number	Port	Length	Wall	Weight
	8"	8 BMW285BFPTRSBHGS	7.87	20.51	0.322	320.0
	10"	10BMW285BFPTRSBHGS	9.84	22.00	0.365	474.0
	12"	12BMW285BFPTRSBHGS	11.81	25.00	0.375	1198.0
	16"	16BMW285BFPTRSBHGS	15.24	33.00	0.375	1481.0
	20"	20BMW285BFPTRSBHGS	19.25	39.00	0.375	
	24"	24BMW285BFPTRSBHGS	23.27	45.00	0.375	

WELD X FLANGE – 285 PSI – ANSI 150

	Size	Catalog number	Port	Length	Wall	Weight
	8"	8BMWF285BFPTRSBHGS	7.87	21.00	0.322	375.0
	10"	10BMWF285BFPTRSBHGS	9.84	22.50	0.365	492.0
	12"	12BMWF285BFPTRSBHGS	11.81	25.50	0.375	1212.0
	16"	16BMWF285BFPTRSBHGS	15.24	33.50	0.375	1582.0
	20"	20BMWF285BFPTRSBHGS	19.25	39.50	0.375	
	24"	24BMWF285BFPTRSBHGS	23.27	45.50	0.375	

FLANGE X FLANGE – 285 PSI – ANSI 150

	Size	Catalog number	Port	Length	ANSI	Weight
	8"	8BMF285BFPTRSBHGS	7.87	18	150	374.0
	10"	10BMF285BFPTRSBHGS	9.84	21	150	532.0
	12"	12BMF285BFPTRSBHGS	11.81	24	150	1294.0
	16"	16BMF285BFPTRSBHGS	15.24	30	150	1612.0
	20"	20BMF285BFPTRSBHGS	19.25	36	150	
	24"	24BMF285BFPTRSBHGS	23.27	42	150	

OPTIONAL VERTICAL GEAR OPERATOR (VGS)





WELD X WELD – 500 PSI

	Size	Catalog number	Port	Length	Wall	Weight
	8"	8BMW500BFPTRSBHGS	7.87	20.51	0.322	320.0
	10"	10BMW500BFPTRSBHGS	9.84	22.00	0.365	474.0
	12"	12BMW500BFPTRSBHGS	11.81	25.00	0.375	1198.0
	16"	16BMW500BFPTRSBHGS	15.24	33.00	0.375	1481.0
	20"	20BMW500BFPTRSBHGS	19.25	39.00	0.375	
	24"	24BMW500BFPTRSBHGS	23.27	45.00	0.375	

WELD X FLANGE – 500 PSI

	Size	Catalog number	Port	Length	Wall	Weight
	8"	8BMWF500BFPTRSBHGS	7.87	21.00	0.322	375.0
	10"	10BMWF500BFPTRSBHGS	9.84	22.50	0.365	492.0
	12"	12BMWF500BFPTRSBHGS	11.81	25.50	0.375	1212.0
	16"	16BMWF500BFPTRSBHGS	15.24	33.50	0.375	1582.0
	20"	20BMWF500BFPTRSBHGS	19.25	39.50	0.375	
	24"	24BMWF500BFPTRSBHGS	23.27	45.50	0.375	

FLANGE X FLANGE – 500 PSI

	Size	Catalog number	Port	Length	ANSI	Weight
	8"	8BMF500BFPTRSBHGS	7.87	19.76	300	430.0
	10"	10BMF500BFPTRSBHGS	9.84	22.375	300	568.0
	12"	12BMF500BFPTRSBHGS	11.81	25.50	300	1322.0
	16"	16BMF500BFPTRSBHGS	15.24	33.00	300	1814.0
	20"	20BMF500BFPTRSBHGS	19.25	39.00	300	
	24"	24BMF500BFPTRSBHGS	23.27	45.00	300	

OPTIONAL VERTICAL GEAR OPERATOR (VGS)





BROEN BALLOMAX® TRUNNION MOUNTED, Full Port – Straight Ball – Gear Operated – 740 MAOP – ANSI 300

WELD X WELD – 740 PSI – ANSI 300

	Size	Catalog number	Port	Length	Wall	Weight
	8"	8BMW740BFPTRSBHGS	7.87	20.51	0.322	320.0
	10"	10BMW740BFPTRSBHGS	9.84	22.00	0.365	474.0
	12"	12BMW740BFPTRSBHGS	11.81	25.00	0.375	1198.0
	16"	16BMW740BFPTRSBHGS	15.24	33.00	0.375	1481.0
	20"	20BMW740BFPTRSBHGS	19.25	39.00	0.375	
	24"	24BMW740BFPTRSBHGS	23.27	45.00	0.375	

WELD X FLANGE – 740 PSI – ANSI 300

	Size	Catalog number	Port	Length	Wall	Weight
	8"	8BMWF740BFPTRSBHGS	7.87	21.00	0.322	375.0
	10"	10BMWF740BFPTRSBHGS	9.84	22.50	0.365	492.0
	12"	12BMWF740BFPTRSBHGS	11.81	25.50	0.375	1212.0
	16"	16BMWF740BFPTRSBHGS	15.24	33.50	0.375	1582.0
	20"	20BMWF740BFPTRSBHGS	19.25	39.50	0.375	
	24"	24BMWF740BFPTRSBHGS	23.27	45.50	0.375	

FLANGE X FLANGE – 740 PSI – ANSI 300

	Size	Catalog number	Port	Length	ANSI	Weight
	8"	8BMF740BFPTRSBHGS	7.87	19.76	300	430
	10"	10BMF740BFPTRSBHGS	9.84	22.375	300	568
	12"	12BMF740BFPTRSBHGS	11.81	25.50	300	1322
	16"	16BMF740BFPTRSBHGS	15.24	33.00	300	1814
	20"	20BMF740BFPTRSBHGS	19.25	39.00	300	
	24"	24BMF740BFPTRSBHGS	23.27	45.00	300	

OPTIONAL VERTICAL GEAR OPERATOR (VGS)



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BROEN BALLOMAX® API 6D 6FA Q1



API 6D 6FA Q1

Full Port Ball Valves for Transmission and Distribution Lines

Double Block and Bleed with Emergency Sealant Injection Ports Full Port Ball Valve

Fully Welded, Carbon Steel Full Port Trunnion Mounted API 6D 6FA Q1 Fire Safe Ball Valves, Designed Specifically for Natural Gas Distribution and Transmission Systems.

Manufactured from high grade carbon steel material, they can be used in below ground or above ground applications.

These valves feature:

- Meets or Exceeds API 6D 6FA Q1 and are API Certified
- Std. Horizontal Gear Operator or Opt. Vertical Gear Operator
- Positive Stops
- Dual seats: Primary Synthetic with Secondary Metal Fire-safe
- Zinc coated Stem Bearings
- Serial numbered for full traceability
- Trunnion Mounted, 100% Full Port
- BROEN is a Certified API facility



BROEN BALLOMAX® API-6D 6FA Q1, Full Port Transmission and Distribution Valves – 285 MAOP – ANSI 150

WELD X WELD – 285 PSI – ANSI 150

	Size	Catalog number	Port	Length	Wall	Weight
	2"	2BMW285BFAFPQ114S	2.01	8.500	0.154	42.0
	3"	3BMW285BFAFPQ114S	2.99	11.140	0.216	73.0
	4"	4BMW285BFAFPQ1HGS	4.02	12.000	0.219	115.0
	6"	6BMW285BSAFPQ1HGS	5.98	17.992	0.312	386.0
	8"	8BMW285BSAFPQ1HGS	8.00	20.510	0.322	446.0
	10"	10BMW285BSAFPQ1HGS	10.00	22.000	0.366	574.0
	12"	12BMW285BSAFPQ1HGS	12.00	25.000	0.375	

Shown with optional vertical gear operator.
Available thru 24". Call for pricing.

FLANGE X FLANGE – 285 PSI – ANSI 150 **Special Order only!**

	Size	Catalog number	Port	Length	ANSI	Weight
	2"	2BMF285BFAFPQ114S	2.01	7.00	150	
	3"	3BMF285BFAFPQ114S	2.99	8.00	150	
	4"	4BMF285BFAFPQ1HGS	4.02	9.00	150	
	6"	6BMF285BSAFPQ1HGS	5.98	15.51	150	
	8"	8BMF285BSAFPQ1HGS	8.00	18.00	150	
	10"	10BMF285BSAFPQ1HGS	10.00	21.00	150	
	12"	12BMF285BSAFPQ1HGS	12.00	24.00	150	

Shown with standard horizontal gear operator.
Available thru 24". Call for pricing.



WELD X WELD – 740 PSI – ANSI 300

	Size	Catalog number	Port	Length	Wall	Weight
	1"	1BMW740BFAFPQ114S	1.00	8.50	0.174	29.0
	2"	2BMW740BFAFPQ114S	2.01	8.50	0.154	47.0
	3"	3BMW740BFAFPQ114S	2.99	11.14	0.216	78.0
	4"	4BMW740BFAFPQ1HGS	4.02	12.00	0.219	150.0
	6"	6BMW740BSAFPQ1HGS	5.98	17.99	0.312	424.0
	8"	8BMW740BSAFPQ1HGS	8.00	20.51	0.322	466.0
	10"	10BMW740BSAFPQ1HGS	10.00	22.00	0.366	640.0
	12"	12 BMW740BSAFPQ1HGS	12.00	25.00	0.375	

Shown with optional vertical gear operator.
Available thru 24". Call for pricing.

FLANGE X FLANGE – 740 PSI – ANSI 300

	Size	Catalog number	Port	Length	ANSI	Weight
	1"	1BMF740BFAFPQ114S	1.00	9.00	300	
	2"	2BMF740BFAFPQ114S	2.01	8.50	300	
	3"	3BMF740BFAFPQ114S	2.99	9.50	300	
	4"	4BMF740BFAFPQ1HGS	4.02	12.00	300	
	6"	6BMF740BSAFPQ1HGS	5.98	15.86	300	
	8"	8BMF740BSAFPQ1HGS	8.00	19.76	300	
	10"	10BMF740BSAFPQ1HGS	10.00	22.36	300	
	12"	12BMF740BSAFPQ1HGS	12.00	25.50	300	

Shown with standard horizontal gear operator.
Available thru 24". Call for pricing.



BROEN BALLOMAX® API-6D 6FA Q1, Full Port Transmission and Distribution Valves – 1480 MAOP – ANSI 600

WELD X WELD – 1480 PSI – ANSI 600

	Size	Catalog number	Port	Length	Wall	Weight
	1"	1BMW1480BFAFPQ114S	1.00	8.50	0.174	31.0
	2"	2BMW1480BFAFPQ114S	2.01	11.50	0.214	51.0
	3"	3BMW1480BFAFPQ114S	2.99	14.00	0.250	109.0
	4"	4BMW1480BFAFPQ1HGS	4.02	17.00	0.250	212.0
	6"	6BMW1480BSAFPQ1HGS	5.98	22.00	0.312	532.0
	8"	8BMW1480BSAFPQ1HGS	8.00	25.98	0.375	551.0
	10"	10BMW1480BSAFPQ1HGS	10.00	30.98	0.375	761.0
	12"	12BMW1480BSAFPQ1HGS	12.00	33.00	0.375	1169.0

Shown with optional vertical gear operator.
Available thru 24". Call for pricing.

FLANGE X FLANGE – 1480 PSI – ANSI 600

	Size	Catalog number	Port	Length	ANSI	Weight
	1"	1BMF1480BFAFPQ114S	1.00	9.00	600	
	2"	2BMF1480BFAFPQ114S	2.01	11.50	600	
	3"	3BMF1480BFAFPQ114S	2.99	14.00	600	
	4"	4BMF1480BFAFPQ1HGS	4.02	17.00	600	
	6"	6BMF1480BSAFPQ1HGS	5.98	22.00	600	
	8"	8BMF1480BSAFPQ1HGS	8.00	25.98	600	
	10"	10BMF1480BSAFPQ1HGS	10.00	30.98	600	
	12"	12BMF1480BSAFPQ1HGS	12.00	33.00	600	

Shown with standard horizontal gear operator.
Available thru 24". Call for pricing.

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BROEN BALLOMAX® BALLOTAP™



BALLOTAP™ Hot Tapping Ball Valve

Fully Welded, Machined Carbon Steel Full Port Ball Valves designed with a Weld End and a Threaded End that accepts a special BALLOTAP™ Threaded Flange for use in Tapping under pressure of Natural Gas Pipelines.

Valve works with all common Drilling and Tapping machines currently on the market. O-Ring seal in flange allows for pressure testing of weld prior to tapping:

- 304 Stainless Steel Balls and Stem STANDARD
- 2" square nut operated
- Locking Plate with POWERSTOPPS™ to prevent over turning
- Seats of 25% Carbonized PTFE (Teflon™) (G-453) rated to -20F
- Zinc coated Stem Bearings
- Serial numbered for full traceability
- Full Port Design
- API 6D Tested



BROEN BALLOMAX® BALLOTAP™, Full Port Valve for Hot Tapping

BALLOTAP™ – Full Opening – 285 PSI – ANSI 150

	Size	Catalog number	Port	Length	Wall	Weight
	2"	2BMHT285PRFPCB14S	1.93	7.00	0.154	12.5
	4"	4BMHT285PRFPCB14S	3.86	10.39	0.237	33.0
	6"	6BMHT285PRFPCB14S	5.75	15.50	0.280	110.0

BALLOTAP™ – Removable Flanges – 285 PSI – ANSI 150

	Size	Catalog number	Port	Length	ANSI	Weight
	2"	2F150BT			150	5.0
	4"	4F150BT			150	13.0
	6"	6F150BT			150	19.0

BALLOTAP™ – Full Opening – 740 PSI – ANSI 300

	Size	Catalog number	Port	Length	Wall	Weight
	2"	2BMHT740PRFPCB14S	1.93	7.00	0.154	12.5
	4"	4BMHT740PRFPCB14S	3.86	10.39	0.237	33.0
	6"	6BMHT740PRFPCB14S	5.75	15.50	0.280	110.0

BALLOTAP™ – Removable Flanges – 740 PSI – ANSI 300

	Size	Catalog number	Port	Length	ANSI	Weight
	2"	2F300BT			300	7.0
	4"	4F300BT			300	22.0
	6"	6F300BT			300	39.0

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BROEN BALLOMAX®

FEMALE THREADED END



FEMALE THREADED END

Ball Valves

Fully Welded, Carbon Steel Regular Port Ball Valves for use in Natural Gas Services.

Features:

- 304 Stainless Steel Balls and Stem STANDARD
- 2" square nut operated
- Locking Plate with POWERSTOPPS™ to prevent over turning

- Seats of 25% Carbonized PTFE (Teflon™) (G-453) rated to -20F
- Zinc coated Stem Bearings
- Serial numbered for full traceability
- CNC accurate Threads
- API 6D Tested



BROEN BALLOMAX® FEMALE THREADED ENDS, Regular Port – Female Iron Pipe Sized

285 PSI

	Size	Catalog number	Port	Length	MOAP	Weight
	2"	2BMFT285PLRPCB14S	1.57	5.71	285	11.0
	3"	3BMFT285PLRPCB14S	2.48	8.13	285	17.5
	4"	4BMFT285PLRPCB14S	3.10	9.37	285	29.0

500 PSI

	Size	Catalog number	Port	Length	MOAP	Weight
	2"	2BMFT500PLRPCB14S	1.57	5.71	500	11.0
	3"	3BMFT500PLRPCB14S	2.48	8.13	500	17.5
	4"	4BMFT500PLRPCB14S	3.10	9.37	500	29.0

740 PSI

	Size	Catalog number	Port	Length	MOAP	Weight
	2"	2BMFT740PLRPCB14S	1.57	5.71	740	11.0

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BROEN BALLOMAX® UTILITY VALVE



UTILITY VALVE Flanged Ball Valves

Fully Welded, Carbon Steel Regular Port FLANGED Ball Valves for use in Natural Gas Services above ground applications. Economical short pattern flanged solution to replace Plug and Iron bodied valves.

Features:

- 304 Stainless Steel Balls and Stem STANDARD
- Wrench Nut or Lever Handle operated

- Locking lugs
- Seats of 25% Carbonized PTFE (Teflon™) (G-453) rated to -20F
- Zinc coated Stem Bearings
- Serial numbered for full traceability
- API 6D Tested
- High Strength Boiler Plate Flanges drilled to ANSI 150 pattern



BROEN BALLOMAX® UTILITY VALVE, Regular Port – Short Pattern Flanged End Valves

285 PSI – ANSI 150 – with wrench nut

Size	Catalog number	Port	Length	ANSI	Weight
2"	2BMF285UVRPCB03S	1.57	7.00	150	10.6
3"	3BMF285UVRPCB03S	2.56	8.00	150	19.1
4"	4BMF285UVRPCB03S	3.15	9.00	150	32.6
6"	6BMF285UVRPCB03S	4.90	10.50	150	67.5

285 PSI – ANSI 150 – with handle

Size	Catalog number	Port	Length	ANSI	Weight
2"	2BMF285UVRPCB01S	1.57	7.00	150	11.0
3"	3BMF285UVRPCB01S	2.56	8.00	150	19.3
4"	4BMF285UVRPCB01S	3.15	9.00	150	33.6
6"	6BMF285UVRPCB01S	4.90	10.50	150	71.7



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BROEN BALLOMAX® FILTER VALVE



FILTER VALVE

Ball Valves

Fully Welded, Carbon Steel Full Port Ball Valves with the unique feature of an added port for accessing a built in FILTER in the ball for cleaning Natural Gas of unwanted debris prior to entering your rotary meters or regulators.

Features:

- 304 Stainless Steel Balls and Stem STANDARD
- 2" Square Nut Operations
- Locking lugs
- Seats of 25% Carbonized PTFE (Teflon™) (G-453) rated to -20F
- Zinc coated Stem Bearings
- Serial numbered for full traceability
- API 6D Tested
- Tamper Proof, and pressure relieving front nut
- Standard 40 Mesh Filter with optional 20 mesh and 100 mesh



BROEN BALLOMAX® FILTER VALVE, Full Port Valve with Filter in Ball

WELD X WELD – 285 PSI

	Size	Catalog number	Port	Length	Std. Filter	Weight
	2"	2BMW285FVFP 40 14S	2"	11.81	40 mesh	17.7

WELD X FLANGE – 285 PSI

Size	Catalog number	Port	Length	Filter	Weight
2"	2BMWF285FVFP 40 14S	2"	11.81	40 Mesh	22.1

FLANGE X FLANGE – 285 PSI

Size	Catalog number	Port	Length	Filter	Weight
2"	2BMWF285FVFP 40 14S	2"	12.00	40 Mesh	22.1

REPLACEMENT FILTERS

	Mesh	Catalog number	
	20 MESH	167410	
	40 MESH	167408	Standard
	100 MESH	167409	

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BROEN BALLOMAX® POLYETHYLENE



POLYETHYLENE

Ball Valves

1/2" THRU 16" SIZE RANGE, LARGE PORT OPENINGS for Natural Gas and Water Service. Available in PE 80 Yellow or PE 100 Black resin material.

Features:

- Full Size Range from 1/2" to 16" with Large Port Opening
- Extra High Impact Operating Nut
- Long Pup Ends for easier tie ins
- No Metal
- Meets or Exceeds ANSI B 16.40, ASTM D-2513, DOT 192, NSF
- Serial Numbered for full traceability
- ISO 9002
- 1/4 turn operations (1/2 – 8") Gear Operated (10" – 16")



BROEN BALLOMAX® POLYETHYLENE, Ball Valves

PE 80 YELLOW RESIN – NATURAL GAS ONLY

	Size	Catalog number	Port	Length	SDR	Weight
	1/2 CTS	PEB 1/2C MD80.090 25	1.02	11.81	.090 wall	1.7
	1/2 IPS	PEB 1/2I MD80.090 25	1.02	11.81	.090 wall	1.7
	3/4 CTS	PEB 3/4C MD80.090 25	1.02	11.81	.090 wall	1.6
	3/4 IPS	PEB 3/4I MD80.090 25	1.02	11.81	.090 wall	1.6
	1 CTS	PEB 1C MD80.090 25	1.02	11.81	.090 wall	2.0
	1 IPS	PEB 1I MD80.090 25	1.02	11.81	.090 wall	2.0
	1-1/4 CTS	PEB 5/4C MD80 DR10 14	1.02	11.81	10	3.3
	1-1/4 IPS	PEB 5/4I MD80 DR10 14	1.02	11.81	10	3.3
	2 IPS	PEB 2I MD80 DR11 14	1.81	25.00	11	5.1
	3 IPS	PEB 3I MD80 DR11 14	2.76	27.76	11	13.2
	4 IPS	PEB 4I MD80 DR11 14	3.54	29.10	11	26.4
	6 IPS	PEB 6I MD80 DR11 14	5.24	29.45	11	61.3
	8 IPS	PEB 8I MD80 DR11 14	6.89	31.85	11	94.9

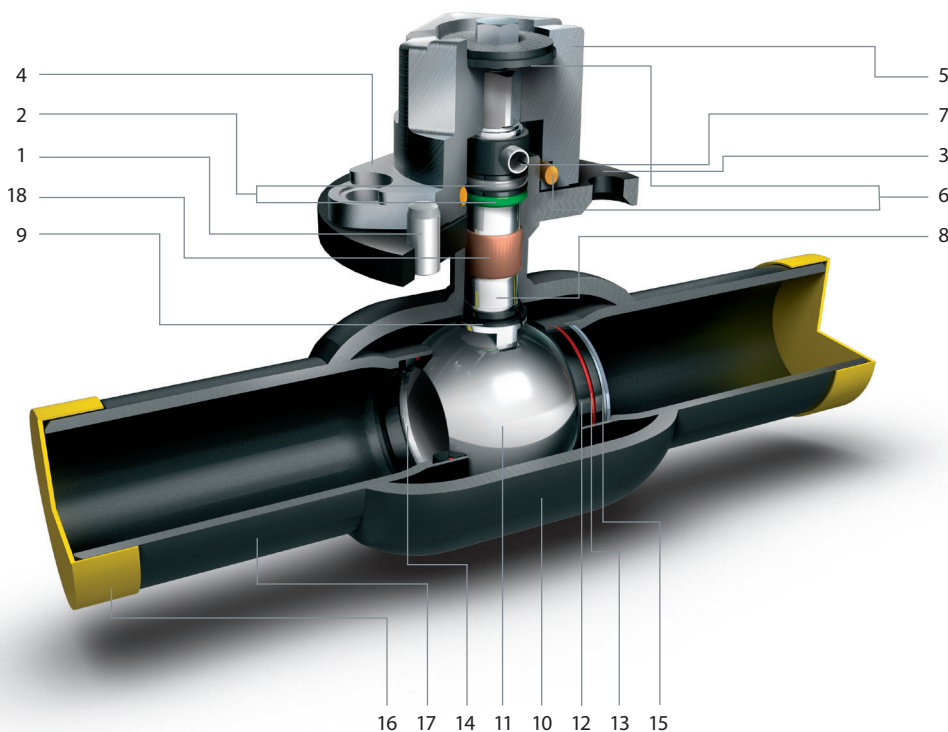
PE 100 BLACK RESIN – NATURAL GAS AND WATER

	Size	Catalog number	Port	Length	SDR	Weight
	1/2 CTS	PEB 1/2C HD100 .090 25	1.02	11.81	.090 wall	1.7
	1/2 IPS	PEB 1/2I HD100 .090 25	1.02	11.81	.090 wall	1.7
	3/4 CTS	PEB 3/4C HD100 .090 25	1.02	11.81	.090 wall	1.6
	3/4 IPS	PEB 3/4I HD100 .090 25	1.02	11.81	.090 wall	1.6
	1 CTS	PEB 1C HD100 .090 25	1.02	11.81	.090 wall	2.0
	1 IPS	PEB 1I HD100 .090 25	1.02	11.81	.090 wall	2.0
	1-1/4 CTS	PEB 5/4C HD100 DR10 14	1.02	11.81	10	3.3
	1-1/4 IPS	PEB 5/4I HD100 DR10 14	1.02	11.81	10	3.3
	2 IPS	PEB 2I HD100 DR11 14	1.81	25.00	11	5.1
	3 IPS	PEB 3I HD100 DR11 14	2.76	27.76	11	13.2
	4 IPS	PEB 4I HD100 DR11 14	3.54	29.10	11	26.4
	6 IPS	PEB 6I HD100 DR11 14	5.24	29.45	11	61.3
	8 IPS	PEB 8I HD100 DR11 14	6.89	31.85	11	94.9
	W/ VERTICAL GEAR OPERATORS					
	10 IPS	PEB 10I HD100 DR11 51	7.17	31.53	11	152.1
	12 IPS	PEB 12I HD100 DR11 51	9.84	36.60	11	212.5
	14 IPS	PEB 14I HD100 DR11 51	11.22	39.37	11	219.3
	16 IPS	PEB 16I HD100 DR11 51	11.22	39.37	11	237.0

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BROEN BALLOMAX®

COMPONENTS AND MATERIAL



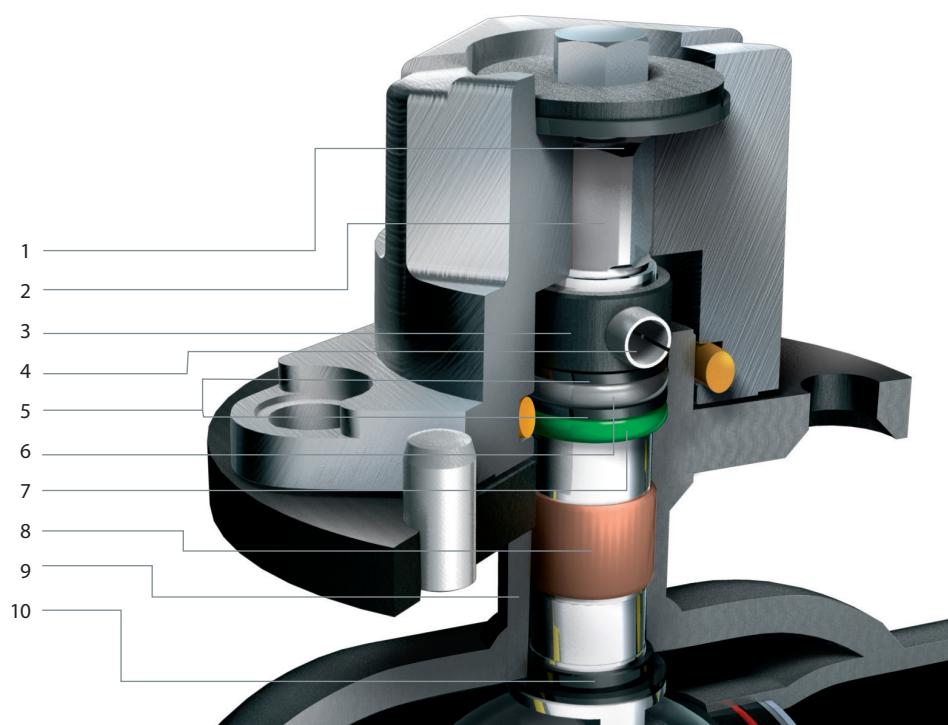
Components and material

- | | |
|----|--|
| 1. | Powerstopp (Heat Treated Steel) |
| 2. | Stem Seals (VITON® Buna N/ VITON® FKM) |
| 3. | Lock Wing Flange |
| 4. | Stainless Steel Stamped Label |
| 5. | 2" Square Nut w/Lock Wing |
| 6. | Weather Seal (Buna N Gasket) |
| 7. | Steel Travel Stop Pin |
| 8. | Stem |
| 9. | Body Stem Friction Washer |

- | | |
|-----|-----------------------------------|
| 10. | Carbon Steel Pipe body |
| 11. | Stainless Steel Ball |
| 12. | Seat Ring |
| 13. | Seat O-Ring (Buna N O-Rings) |
| 14. | Seat Support Ring |
| 15. | Stainless Steel Balleville Spring |
| 16. | Protective End Cap |
| 17. | Body End Connections |
| 18. | Stem Bearings (Lead Coated) |

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BROEN BALLOMAX® CUTAWAY STEM (2" – 6" Design)



Components and material

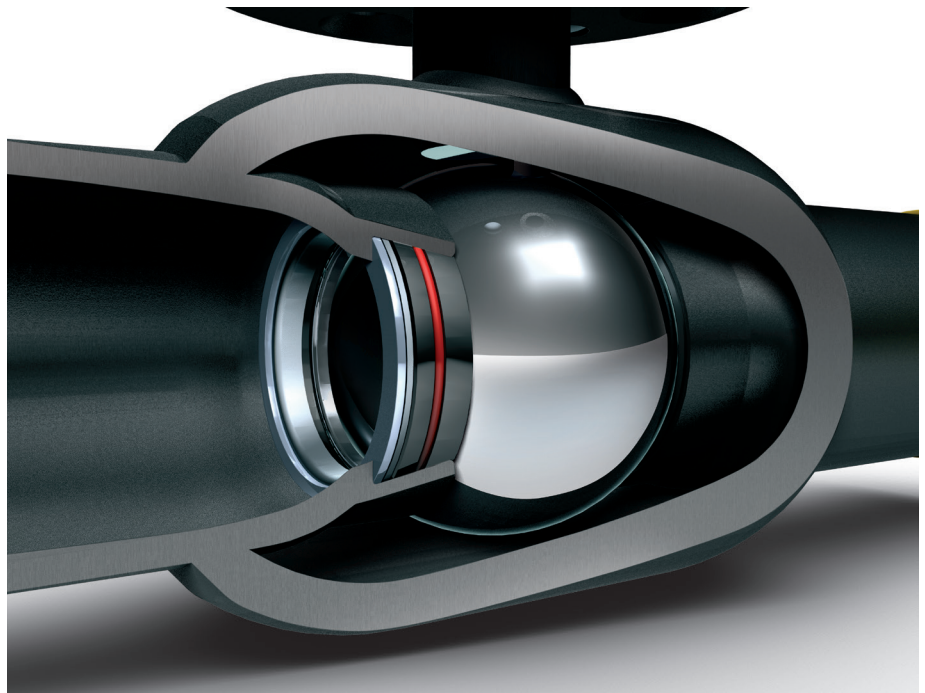
- | | |
|----|-----------------------|
| 1. | Indicating groove |
| 2. | Stem |
| 3. | Stop ring |
| 4. | Stop pin |
| 5. | Support for 'O' rings |

- | | |
|-----|-----------------------|
| 6. | VITON® Buna N |
| 7. | VITON® FKM |
| 8. | Lead coated bearings |
| 9. | Stem support |
| 10. | Bearing friction disc |

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BROEN BALLOMAX®

SEAT SPECIFICATION



SEAT QUALITY FEATURES

- Do not absorb water, and does not expand
- Chemical resistant
- High friction characteristics
- Good temperature stability
- Tested and approved up to 250°C

SEAT SPECIFICATION

The base material: PTFE Powder
Type of material: G453
Particle size: 60 micron
Part. Size of filler: 40 micron

Type of filler: Carbon
Mix: PTFE +20% carbon
Tolerance of content: + - 5%

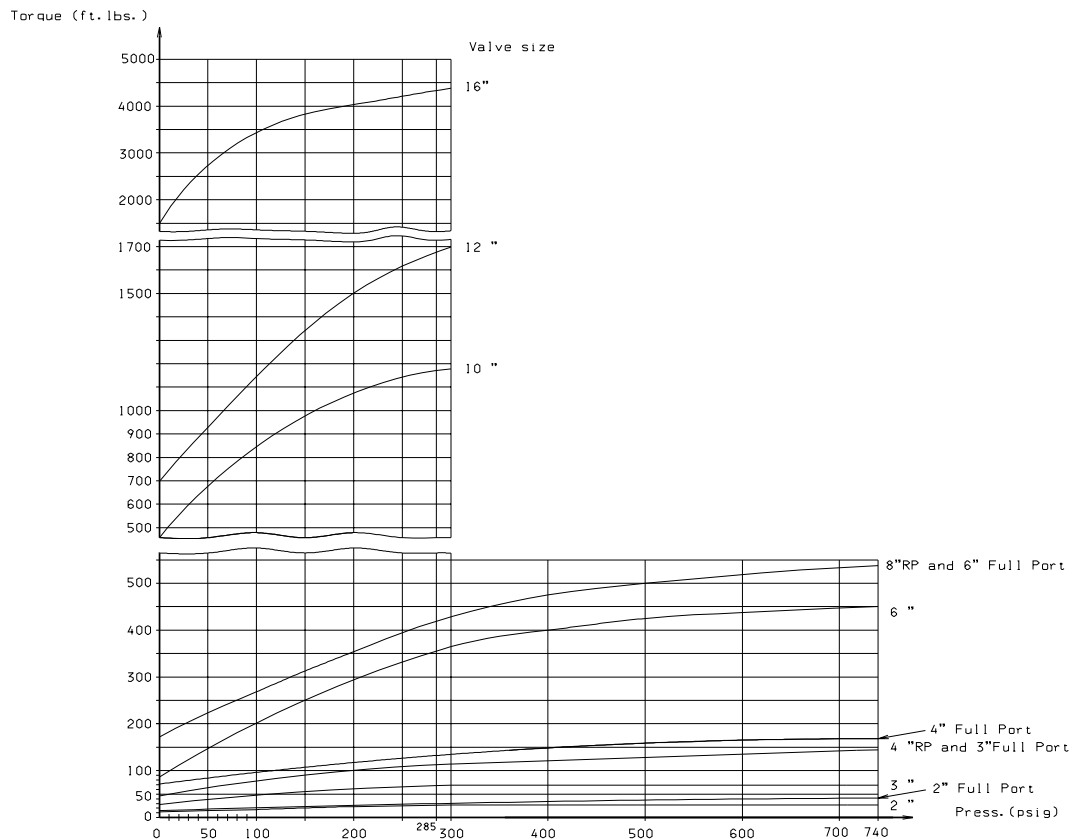
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BROEN BALLOMAX® TURNING TORQUE

For 2" - 16" BROEN BALLOMAX® Reduced port and full port

The torque must be considered as a recommended torque. The torque is derived from measurements taken on newly produced valves. The torque is a break away torque for a closed, but just activated valve.

It should be noted: For a valve, which has not been activated for a long period of time, the listed turning torques could be up to 1 ½ times greater.



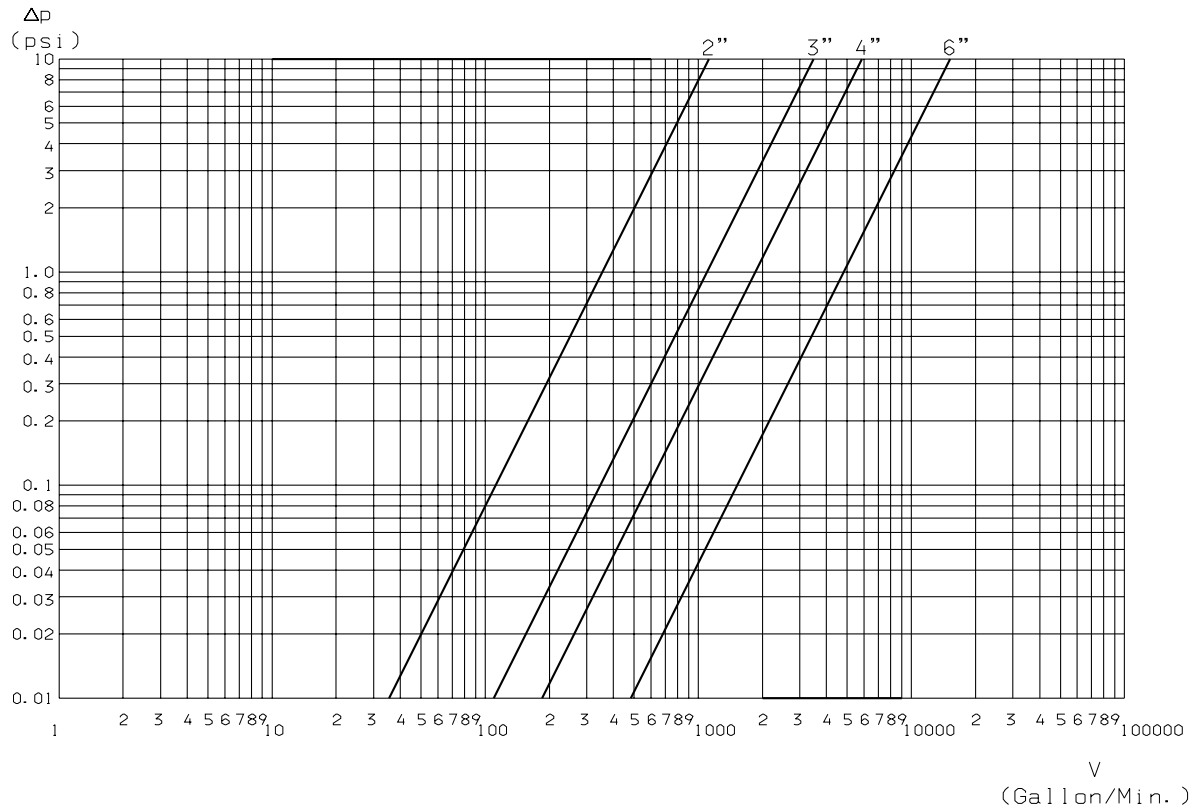
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BROEN BALLOMAX®

PRESSURE LOSS DIAGRAM

Full Port BROEN BALLOMAX® Ball Valves

Medium: Water with specific gravity of 1.



$$C_v = \frac{V}{\sqrt{\Delta p}}$$

V = Flow rate in Gallon/Min.

Δp = Pressure drop in psi.

Valve	2"	3"	4"	6"
C _v	355	1100	1850	4825

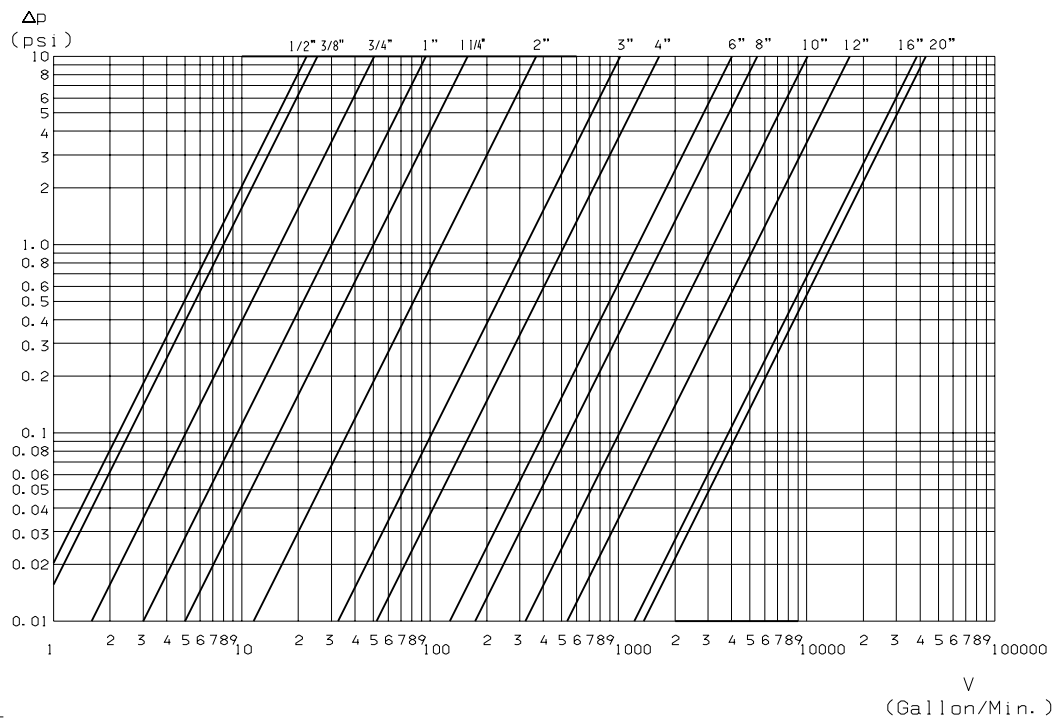
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BROEN BALLOMAX®

PRESSURE LOSS DIAGRAM

Regular Port BROEN BALLOMAX® Ball Valves

Medium: Water with specific gravity of 1.



$$C_v = \frac{V}{\sqrt{\Delta p}}$$

V = Flow rate in Gallon/Min.
Δp = Pressure drop in psi.

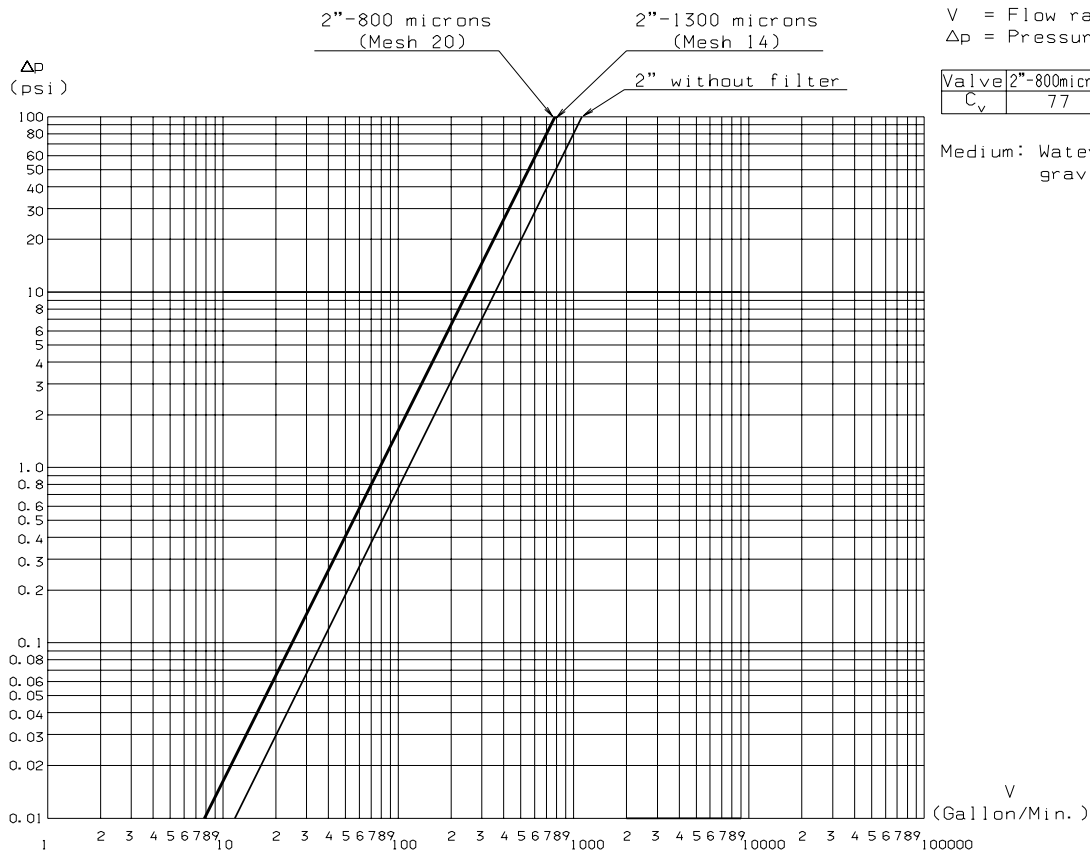
Valve	3/8"	1/2"	3/4"	1"	1 1/4"	2"	3"	4"	6"	8"	10"	12"	16"	20"
C _v	8	7	16	30	50	116	324	520	1272	1734	3203	5342	12187	13620

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BROEN BALLOMAX®

PRESSURE LOSS DIAGRAM

For 2" FP BROEN BALLOMAX®
Strainer Valves



BROEN Engineered Valve Group

For more than 70 years BROEN has been the global leader in the development and production of valve technology for the control of water, air, gas and oil. BROEN delivers complete solutions for HVAC building installations and is a leading supplier of district energy valves.

We know application and valve technology in depth and in close dialogue with our customers and partners all over the world we create value and reliability with proven valves offering full quality assurance.

BROEN is headquartered in Assens, Denmark and is part of Aalberts N.V., Netherland.

Read more on: www.broen.com

BROEN Group locations

Headquarters in Assens, DK

Sales- and productions sites ●

BROEN A/S, Assens (DK)
BROEN SA, Dzierżoniów (PL)
BROEN LLC, Kolomna (RU)
BROEN INC., Houston (US)
BROEN OIL & GAS, Suchy Las & Rogoźno (PL)
Clorius Controls, Dzierżoniów (PL)

Sales companies and offices ○

BROEN, Assens
BROEN, Stockholm
BROEN, Helsinki
BROEN SEI, Romania
BROEN, Beijing
BROEN, Singapore
BROEN, Dusseldorf
BROEN, Moscow
Clorius Controls, Shanghai



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