ATM

Abresan Toloue Mehr Company

Producer of valves and under pressure joints

GLOBE VALVE

OHSAS 18001

ISO 14001

QAL Certification

ISO 9001: 2008

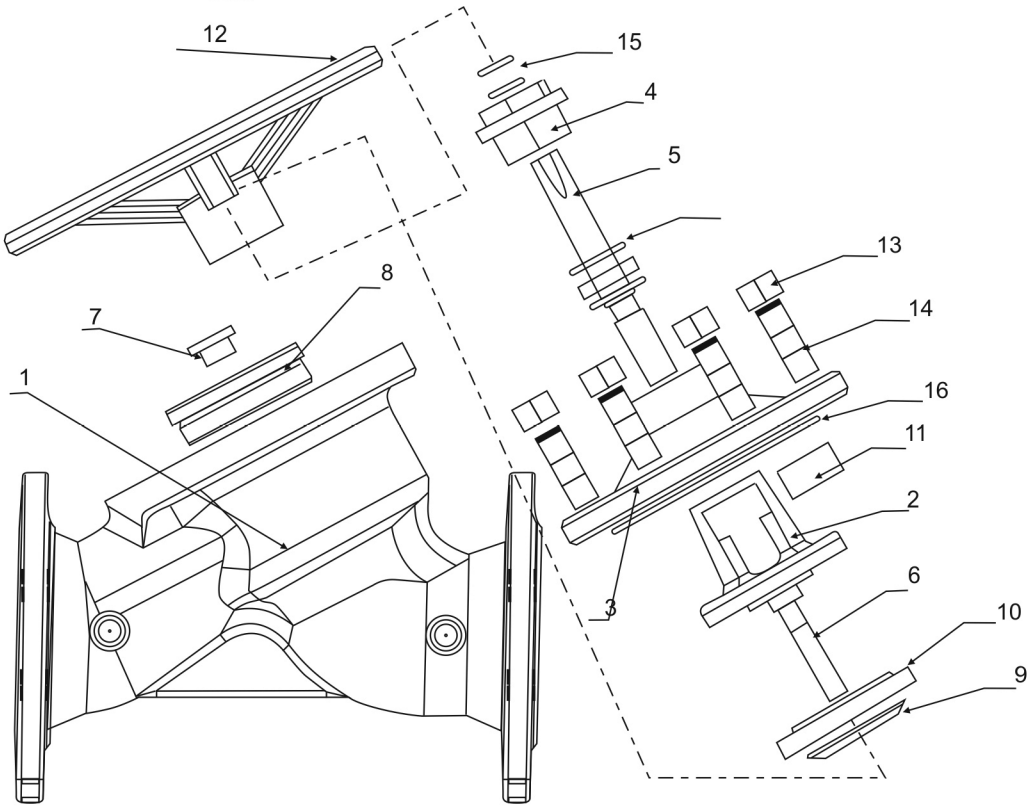
www.atmehr.com

GLOBE VALVE

This Valve is used as a flow regulator valve this type of valve can be used in urban water supply lines, cold and hot water installations and non-corrosive liquids vapor up to 180 ° C.
Pressure range: PN10-PN25
Size: DN 50- DN1000
The dimensions of the flange and the excavation specifications according to the standard: (DIN 2501) DIN EN 1092-2
Valve flange to flange according to standard: (DIN3202-F1) DIN EN 558-1 Series
Advantage and propertices of Abrasan Tolou Mehr company GLOBE valve
Abarsan's ball valve has a dowry structure with cast iron with the ring is made of stainless steel for a long life of the valve and the rubber ring is made of EPDM and NBR. This valve is designed so that parts can be replaced, maintained, repaired and serviced without having to remove the valve from the network. The mass flow controller can also accurately and effectively pressure as little as possible of corrosion and damage, and the least create sound vibration. All parts of cast iron are painted using a powder coating of blue epoxy in an electrostatic manner. The test specifications for hydrostatic testing are as follows:
The Abersan ball valves can be provided from 50 to 1000 mm in three models with manual actuator - gearbox and electric motor.

Pressure test according to DIN EN 12266-1		
Nominal pressure	Water pressure test (bar)	
	leakage test	structure power test
10	11	17
16	17.6	25
25	27.5	37.5

Abresan Toloue Mehr Company reserves the right to change any dimension and specification to promote quality while considering related standards.



Spare parts	the number	the name of piece	Section material
	1	structure	EN-GJS 400-15
	2	cylinder	EN-GJS 400-15
	3	cover	EN-GJS 400-15
	4	Shaft nut	Bronze
	5	Main Shaft	X20cr13
	6	Cylinder guide Shaft	X20cr13
	7	Cylinder roller bearing	Bronze
	8	Seat prevent leakage	Stainless steel
	9	Seal ring for leakage prevent	EN-GJS 400-15
●	10	Ring to prevent leakage	EODM or NBR
	11	Main shaft nut	Bronze
	12	Control valve	EN-GJS 400-15 or St38
	13	bolt	Warm Galvanize
	14	nut	Warm Galvanize
	15 , 16	Oring	EPDM or NBR

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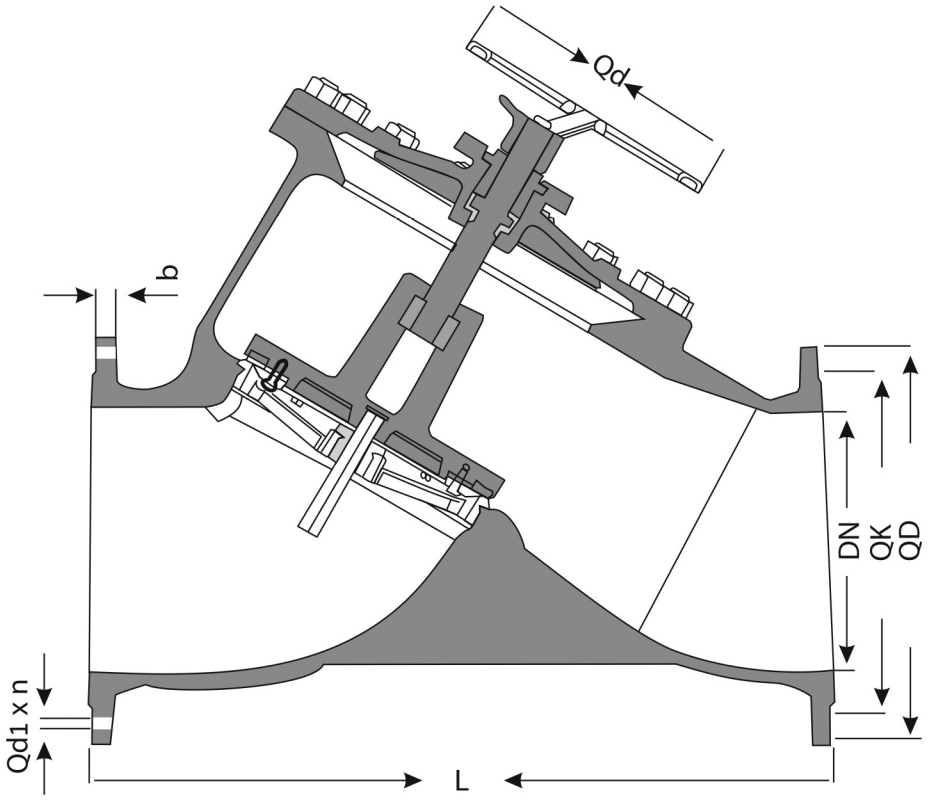

DN (mm)	PN (mm)	L (mm)	ØD (mm)	ØK (mm)	Ød1 (mm)	n	b (mm)	Ød (mm)
50	10,16,25	230	165	125	19	4	19	200
65	10,16,25	290	185	145	19	PN 10,16,4 PN25:8	19	200
80	10,16,25	310	200	160	19	8	19	200
100	10,16,25	350	PN 10,16,220 PN25:235	PN 10,16,180 PN25:190	PN 10,16,19 PN25:23	8	19	200
125	10,16,25	400	PN 10,16,235 PN25:250	PN 10,16,210 PN25:220	PN 10,16,19 PN25:28	8	PN 10,16,19 PN25:23.5	250
150	10,16,25	480	PN 10,16,285 PN25:300	PN 10,16,240 PN25:250	PN 10,16,23 PN25:28	8	20	360

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Spherical valve Spherical valve dimention

	DN mm	L mm	ØD mm	ØK mm	Qd1 mm	n	b mm	Ød mm
PN 10	200	600	340	295	23	8	20	400
	250	730	395	350	23	12	22	400
	300	850	445	400	23	12	24.5	400
	350	980	505	460	23	16	24.5	400
	400	1100	565	515	28	16	24.5	400
	450	1200	615	565	28	20	25.5	400
	500	1250	670	620	28	20	26.5	400
	600	1450	780	725	31	20	30	400
	700	1650	895	840	31	24	32.5	400
	800	1850	1015	950	34	24	35	400
	900	2050	1115	1050	34	28	37.5	500
	1000	2250	1230	1160	36	28	40	500

	DN mm	L mm	ØD mm	ØK mm	Qd1 mm	n	b mm	Ød mm
PN 16	200	600	340	295	23	12	20	400
	250	730	405	355	28	12	22	400
	300	850	460	410	28	12	24.5	400
	350	980	520	470	28	16	26.5	400
	400	1100	580	525	31	16	28	400
	450	1200	640	585	31	20	30	400
	500	1250	715	650	34	20	31.5	400
	600	1450	840	770	37	20	36	400
	700	1650	910	840	37	24	39.5	400
	800	1850	1025	950	41	24	43	400
	900	2050	1125	1050	41	28	46.5	500
	1000	2250	1255	1170	41	28	50	500

	DN mm	L mm	ØD mm	ØK mm	Qd1 mm	n	b mm	Ød mm
PN 25	200	600	360	310	28	12	22	400
	250	730	425	370	31	12	24.5	400
	300	850	485	430	31	16	27.5	400
	350	980	555	490	34	16	30	400
	400	1100	620	550	37	16	32	400
	450	1200	670	600	37	20	34.5	400
	500	1250	730	660	37	20	36.5	400
	600	1450	845	770	41	20	42	400
	700	1650	960	875	44	24	46.5	400
	800	1850	1085	990	50	24	51	400
	900	2050	1185	1090	50	28	55.5	500
	1000	2250	1320	1210	56	28	60	500

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SPHERICAL VALVE

One of the most used industrial valves is Globe valve that is used to control water flow and pressure. The geometric shape inside the structure and type of block movement, make the possibility of fluid flow in this valve.

General specifications of Globe valves

1. Type of hydraulic performance: It is mainly for control of hydraulic components of liquids
2. Type of block movement: Linear motion leads to a roller swing up and down

Operator Type: Manual - Pneumatic - Electric & Hydraulic

3. Type of fluid stream: full or smaller than input

Design specifications of Globe valves

1- Path of indirect fluid flow with 90 degree rotation
2- the existence of a movment block parallel with the flow of fluids
3- With the design of the rotation of the fixed axis to move
the leakage cylinder up and down
4- With the design of the elevator axis
5- with the design of the axis of the outer solenoid
6- with the design of the block in the form of a dish (cylinder)
7- with optimal control in the range of 15 to 85
8- With sealant design on both sides

DESIGN THE DIAGONAL SHAPE STRUCTURE OF THE GLOBE VALVE

According to this structure design the movement of movement block and pivot movement with the center line of the pipe has an angle of 45 to 60 degrees. So the liquid movement pass much more smoothly trowh the valve structure, leading to at least a lower pressure for the straight sample.

Advantages

1 - The optimal control possibility
2 - The high possibility of preventing water leakage
3 - Low ratio for pressure decrease
4. Automatic positioning of the cylinder by the chassis seat according to the limited cylinder continuity design
5 - Possibility to install penomatic, electrical and hydraulic and gearbox functions

Limitations

1 - The high size of the beam, especially in large dimensions
2. High weight
3. High needed torque
4. Disruption of the valve if the axis connection fails to the block

The structure of the globe valve in a straight shape design

The structure of the globe valve in a straight shape design
In this design, the block piece movement is towards the enclosure of pipeline line target So the flow of fluid passes through the structure of the valve during two stages of rotation 90 degrees, Leading to a significant reduction in pressure.

Advantages

1 - The possibility of optimal control of liquid units
2 - The high possibility of preventing water leakage
3 - Possibility to install penomatic, electrical and hydraulic functions

Limitations

1. High volume valve, especially in large dimensions
2. High weight
3. High torque
4. Disruption of the valve if the axis connection fails to the block