

GUIDE VALVE LIMITED

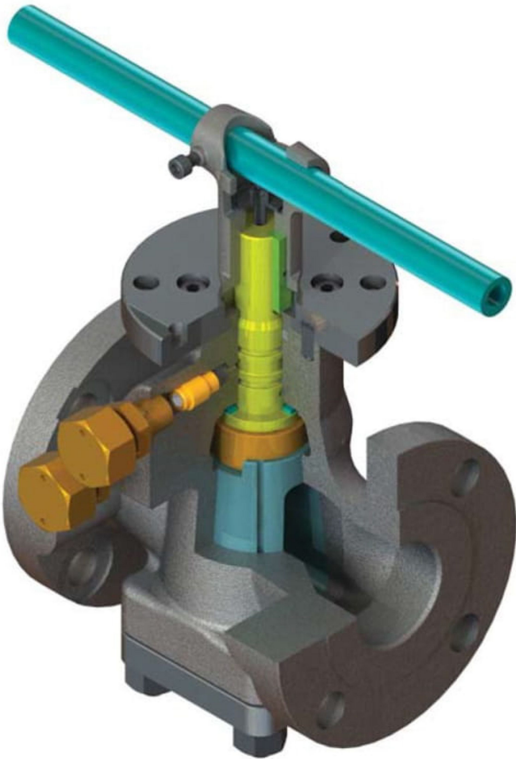
GVS® Pressure Balanced
Lubricated Plug Valves



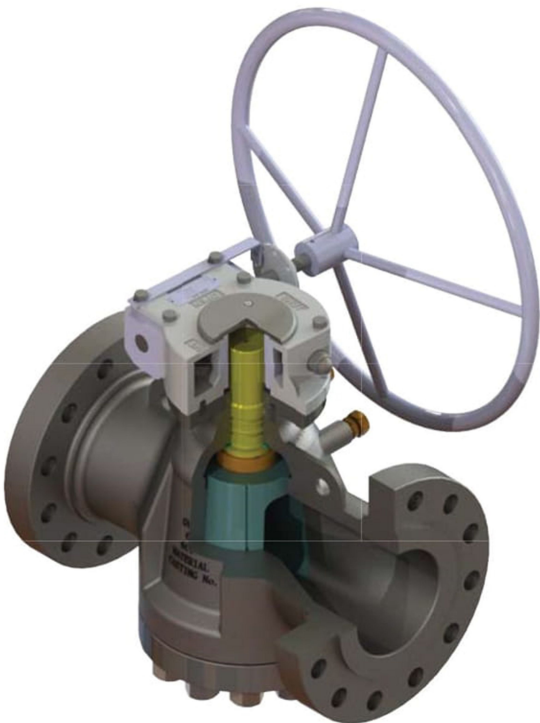
www.gvs-vci.com



PRODUCT SERIES PRESSURE BALANCED LUBRICATED PLUG VALVES



Model **P1** - Short Pattern



Model **P1** - Regular & Venturi Pattern

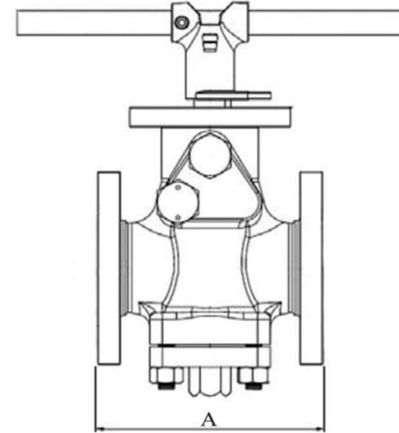




P1 - SHORT & VENTURI PATTERN - DIMENSIONS

Short Pattern ANSI 150

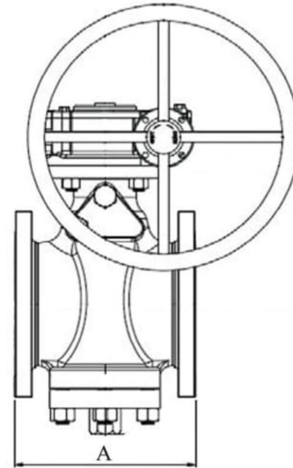
VALVE SIZE	MIN BORE SIZE		RF			WEIGHT	
			RF	RTJ	BW		
NPS	B	PORT	A			RF/RTJ	BW
inch	inch	%	inch	inch	inch	lbs	lbs
2*	2	80	7.0	7.5	10.5	37.5	34.2
3*	3	70	8.0	8.5	13.0	59.5	50.7
4	4	80	9.0	9.5	14.0	125.7	110.3
6	6	45	10.5	11.0	18.0	147.7	119.1
8	8	40	11.5	12.0	20.5	238.1	176.4
10	10	40	13.0	13.5	22.0	463.1	407.9
12	12	40	14.0	14.5	25.0	727.7	650.5



ANSI 300

VALVE SIZE	MIN BORE SIZE		RF			WEIGHT	
			RF	RTJ	BW		
NPS	B	PORT	A			RF/RTJ	BW
inch	inch	%	inch	inch	inch	lbs	lbs
2*	2	80	8.5	9.1	10.5	44.1	37.5
3*	3	70	11.1	11.7	13.0	83.8	70.6
4	4	80	12.0	12.6	14.0	165.4	136.7
6	6	45	15.9	16.5	18.0	260.2	216.1
8	8	40	16.5	17.1	20.5	396.9	326.3
10	10	40	18.0	18.6	22.0	595.4	485.1
12	12	40	19.8	20.4	25.0	860.0	705.6

* Lever operated.



Venturi Pattern ANSI 150

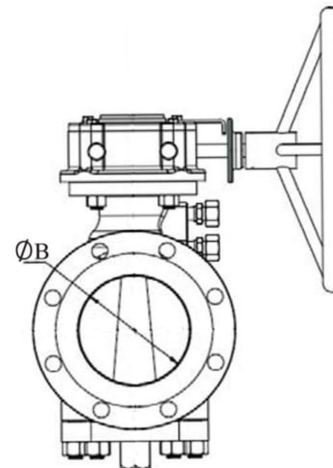
VALVE SIZE	MIN BORE SIZE		RF			WEIGHT	
			RF	RTJ	BW		
NPS	B	PORT	A			RF/RTJ	BW
inch	inch	%	inch	inch	inch	lbs	lbs
16	15.3	40	30.0	30.5	30.0	1587.6	1389.2
20	19.3	40	36.0	36.5	36.0	2425.5	2116.8
24	23.3	40	42.0	42.5	42.0	3969.0	3638.3
30	29.0	40	51.0	51.5	51.0	7056.0	6218.1

ANSI 300

VALVE SIZE	MIN BORE SIZE		RF			WEIGHT	
			RF	RTJ	BW		
NPS	B	PORT	A			RF/RTJ	BW
inch	inch	%	inch	inch	inch	lbs	lbs
16	15.3	40	33.0	33.6	33.0	1764.0	1466.3
20	19.3	40	39.0	39.8	39.0	2866.5	2535.8
24	23.3	40	45.0	45.9	45.0	4630.5	4189.5
30	29.0	40	55.0	56.0	55.0	9261.0	7497.0

ANSI 600

VALVE SIZE	MIN BORE SIZE		RF			WEIGHT	
			RF	RTJ	BW		
NPS	B	PORT	A			RF/RTJ	BW
inch	inch	%	inch	inch	inch	lbs	lbs
16	15.3	40	39.0	39.1	39.0	2315.3	1808.1
20	19.3	40	47.0	47.2	47.0	4410.0	3528.0
24	23.3	40	55.0	55.4	55.0	7056.0	5733.0
30	29.0	40	65.0	65.5	65.0	13450.5	11466.0



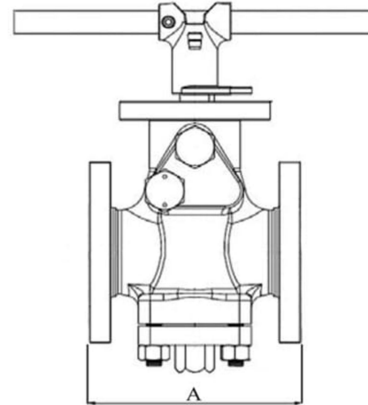


P1-REGULAR & VENTURI PATTERN-DIMENSIONS

Regular Pattern

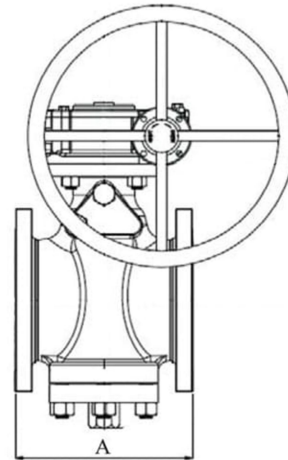
ANSI 600

VALVE SIZE	MIN BORE SIZE		RF			WEIGHT	
			RF	RTJ	BW		
NPS	B	PORT	A			RF/RTJ	BW
inch	inch	%	inch	inch	inch	lbs	lbs
2*	2.0	80	11.5	11.6	11.5	61.7	48.5
3*	3.0	80	14.0	14.1	14.0	119.1	99.2
4	4.0	80	17.0	17.1	17.0	242.6	185.2
6	6.0	60	22.0	22.1	22.0	485.1	374.9
8	8.0	60	26.0	26.1	26.0	829.1	674.7
10	10.0	60	31.0	31.1	31.0	1367.1	1113.5
12	12.0	60	33.0	33.1	33.0	1830.2	1455.3
16	15.3	60	39.0	39.1	39.0	2778.3	2271.2
20	19.3	60	47.0	47.2	47.0	5292.0	4410.0
24	23.3	60	55.0	55.4	55.0	8467.2	7144.2
30	29.0	60	65.0	65.5	65.0	16140.6	14156.1



ANSI 900

VALVE SIZE	MIN BORE SIZE		RF			WEIGHT	
			RF	RTJ	BW		
NPS	B	PORT	A			RF/RTJ	BW
inch	inch	%	inch	inch	inch	lbs	lbs
2*	2.0	80	14.5	14.6	14.5	105.8	75.0
3	3.0	80	15.0	15.1	15.0	200.7	167.6
4	4.0	80	18.0	18.1	18.0	412.3	368.2
6	6.0	60	24.0	24.1	24.0	606.4	441.0
8	8.0	60	29.0	29.1	29.0	1036.4	846.7
10	10.0	60	33.0	33.1	33.0	1719.9	1455.3
12	12.0	60	38.0	38.1	38.0	2315.3	1631.7
16	14.7	60	44.5	44.9	44.5	3506.0	2822.4
20	18.6	60	52.0	52.5	52.0	5225.9	4321.8
24	22.5	60	61.0	61.7	61.0	10407.6	9261.0



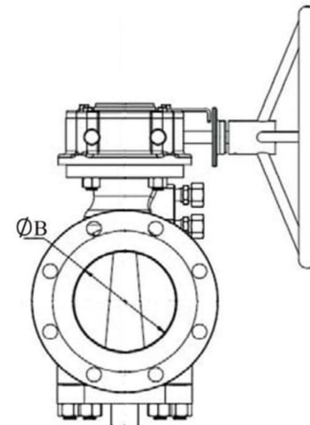
ANSI 1500

VALVE SIZE	MIN BORE SIZE		RF			WEIGHT	
			RF	RTJ	BW		
NPS	B	PORT	A			RF/RTJ	BW
inch	inch	%	inch	inch	inch	lbs	lbs
2*	2.0	80	14.5	14.6	14.5	105.8	75.0
3	2.9	85	18.5	18.6	18.5	202.9	154.4
4	3.9	85	21.5	21.6	21.5	348.4	264.6
6	5.7	60	27.8	28.0	27.8	696.8	573.3
8	7.6	60	32.8	33.1	32.8	1256.9	1212.8
10	9.4	60	39.0	39.4	39.0	2138.9	1686.8
12	11.3	60	44.5	45.1	44.5	3594.2	2866.5
16	14.2	60	54.5	55.4	54.5	6791.4	5556.6
20	17.9	60	65.5	66.4		8290.8	6063.8
24	21.5	60	76.5	77.6		12083.4	7982.1

ANSI 2500

VALVE SIZE	MIN BORE SIZE		RF			WEIGHT	
			RF	RTJ	BW		
NPS	B	PORT	A			RF/RTJ	BW
inch	inch	%	inch	inch	inch	lbs	lbs
2	1.7	60	17.8	17.9	17.8	180.8	143.3
3	2.4	60	22.8	23.0	22.8	352.8	231.5
4	3.4	60	26.5	26.9	26.5	573.3	385.9
6	5.2	60	36.0	36.5	36.0	1411.2	1036.4
8	7.1	60	40.2	40.9	40.2	2976.8	2304.2
10	8.8	60	50.0	50.9	50.0	4806.9	3572.1
12	10.4	60	56.0	56.9	56.0	6813.5	4939.2

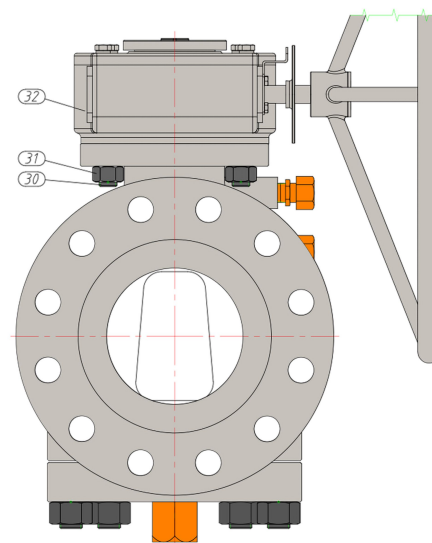
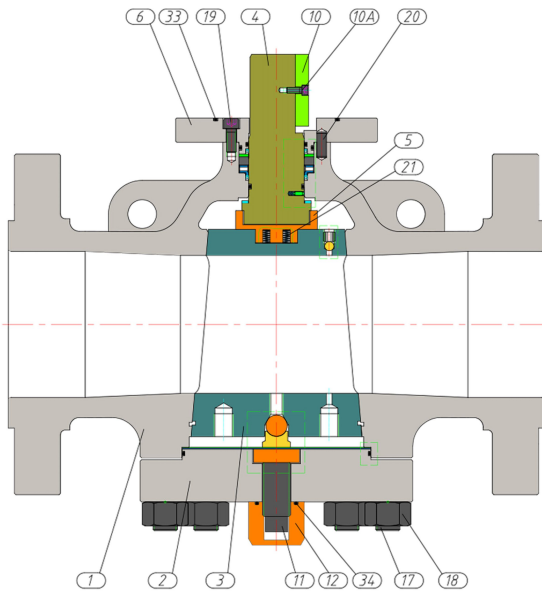
* Lever operated.



Additional Sizes Available

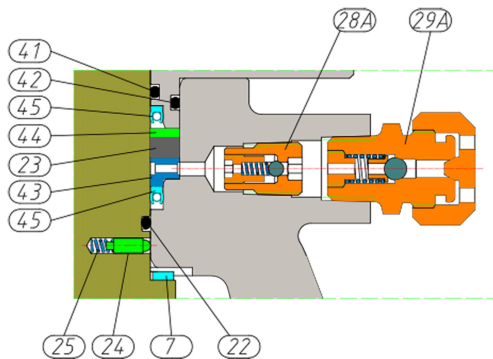


DESIGN FEATURES

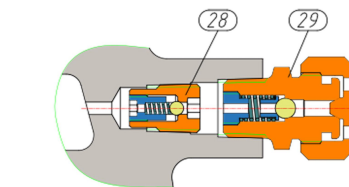


STANDARD:
DESIGN STANDARD API 6D & API 599
END CONNECTION: ANSI B16.5 RF
PRESSURE TEST: API 6D

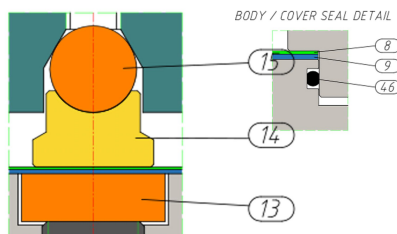
Position	Part Description	Remark
1	Body	
2	Cover	
3	Plug	
4	Stem	
5	Equalizer	
6	Top stop flange	
7	Thrust washer	
8	Upper seal disk	
9	Lower seal disk	
10	Key	
10A	Capscrew	
11	Push rod	
12	Push rod cap	
13	Bottom support	
14	Lower support	
15	Upper support ball	
17	Stud	
18	Nut	
19	Capscrew	
20	Pin	
21	Spring	
22	O-ring	
23	Fire safe seal	
24	Antistatic piston	
25	Spring	
26	Balance screw	
27	Balance ball	
28	Inner check valve	
28A	Inner check valve	
29	Grease fitting	
29A	Grease fitting	
30	Stud	
31	Nut	
32	Gear box	
33	O-ring	
34	O-ring	
41	O-ring	
42	O-ring	
43	Packing spacer	
44	Gland ring	
45	Lip seal	
46	O-ring	for class 600 and above



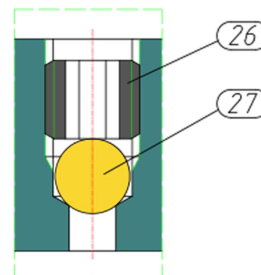
STEM SEAL SUB-ASSEMBLY DETAIL



BODY GREASE FITTING SUB-ASSEMBLY DETAIL



CENTERING ADJUSTMENT DEVICE DETAIL



PRESSURE BALANCE DEVICE DETAIL

FEATURES

- Design according to API 6D, API 599, and CSA Z245,15-17
- NACE MR0175 SOUR - Available
- Firesafe certified to ANSI / API 607, ISO 10497:2010 and API 6FA
- Anti-static devices
- R.T Standard
- Available in RF, RTJ and BW ends
- Pressure balancing device
- Centering adjustment device
- Anti-blow out stem design
- Stem emergency grease fitting
- Available in short, venturi and regular patterns
- Fugitive Emission Certified to API Standard 641



CANADA

API 6D: 6D-1342
API Spec Q1: Q1-4181
ISO 9001 :2015: 0052985-01



CHINA

API 6D: 6D-1822
API 6A: 6A-2250
API Spec Q1: Q1-3641
ISO 9001 :2015: ISO-3983



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Total Quality. Assured.

CERTIFICATE OF REGISTRATION

This is to certify that the management system of:

Guide Valve Limited

Main Site: 51 Terecar Drive, Woodbridge, Ontario, L4L 0B5, Canada
has been registered by Intertek as conforming to the requirements of:

ISO 9001:2015

The management system is applicable to:

The design and manufacturing of valves.

Certificate Number: 0052985-01

Issued:
03 Aug
Valid
05 Sep



Calin Moldov
President, Business

**American
Petroleum
Institute**

Certificate of Authority to use the Official API Monogram

License Number: 6D-1342

The American Petroleum Institute hereby grants to
GUIDE VALVE LIMITED
51 Terecar Drive #1
Woodbridge, ON
Canada

the right to use the Official API Monogram on manufactured products under the conditions in the official publications of the American Petroleum Institute entitled API Spec Q1 and API-6D and in accordance with the provisions of the License Agreement.

In all cases where the Official API Monogram is applied, the API Monogram shall be used in conjunction with this certificate number: **6D-1342**

The American Petroleum Institute reserves the right to revoke this authorization to use the Official API Monogram for any reason satisfactory to the Board of Directors of the American Petroleum Institute.
The scope of this license includes the following: Ball Valves and Plug Valves

API Standard 641, First Edition, 2016 Test Report

"Type Testing of Quarter-turn Valves for
Fugitive Emissions"

Performed for
Guide Valve Limited
www.gvs-vci.com

Fire Test Report

ANSI/API Standard 607, 6th Edition, 2010
ISO 10497: 2010
API 6FA, Third Edition, April 1999

Performed for
Guide Valve Limited
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Each Class 600 Pressure Balanced Plug Valve
Valve Code: 08-P1R-600-RF-G-02
Project Number: 08-P1R-600-RF-G-02

GUIDE VALVE
LIMITED

51 Terecar Dr., Unit 1
Woodbridge, ON CANADA L4L 0B5
Tel: 905-761-7877
Fax: 905-761-7917

www.gvs-vci.com

sales@gvs-vci.com

GUIDE VALVE
USA LIMITED

16295 North Frwy Service Rd.
Building #17
Houston, Texas, 77090.
USA.

Toll Free: 1-888-824-5693

Distributor / Agent: