FORGED GLOBE VALVE 800 LBS (412-413-414-452-453)















Size: DN 3/8" to 2"

Ends: Female - Female BSP or NPT, Socket Welding

Min Temperature : -30°C in S.S. and -20°C in carbon steel

Max Temperature: + 440°C Max Pressure: 138 Bars

Specifications: Rising rotating stem

Bolted bonnet and gland pack

Reduced bore

Materials: Carbon steel or Stainless steel

FORGED GLOBE VALVE 800 LBS (412-413-414-452-453)

SPECIFICATIONS:

- · Respect the flow direction (indicated by the arrow)
- Reduced bore
- · Rising rotating stem
- Bolted bonnet and gland pack
- Forged Carbon steel or stainless steel
- ½ stellite (Trim 8) for carbon steel valves
- Trim 10 standard SS 316 for stainless steel types
- 800 lbs

USE:

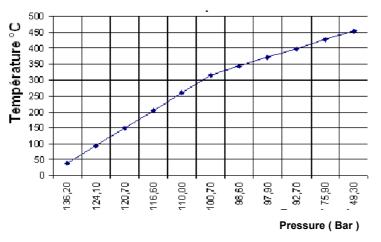
- · Petroleum industry, steam, high pressure
- Min and max Temperature Ts: 30°C to + 440°C for SS types Ref.452/453
- Min and max Temperature Ts : 20°C to + 440°C for carbon steel types Ref. 412/413/414
- Max Pressure PN: 138 bars (see graph)

FLOW COEFFICIENT Kvs (M3/h):

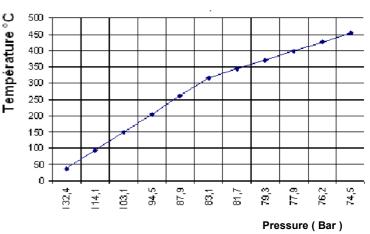
DN	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
Kvs (m3/h)	1.2	1.3	3.3	5.9	9.5	12.4	21.6

PRESSURE / TEMPERATURE GRAPH:

FOR CARBON STEEL TYPES (Ref. 412-413-414)



FOR STAINLESS STEEL TYPES (Ref. 452-453)

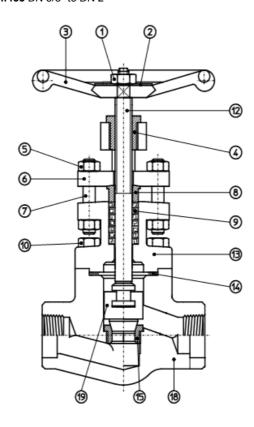


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RANGE:

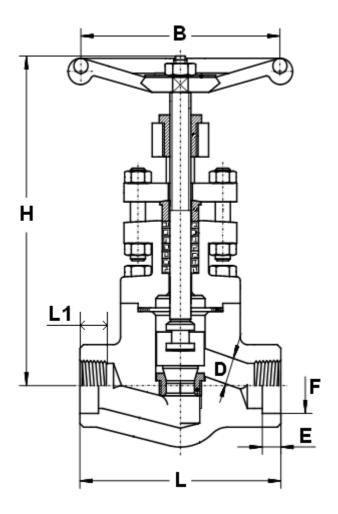
- Carbon steel Socket Welding ends Ref. 412 DN 10 to DN 50
- Carbon steel NPT threaded Ref.413 DN 3/8" to DN 2"
- Carbon steel BSP cylindrical threaded Ref.414 DN 3/8" to DN 2"
- Stainless steel Socket Welding ends Ref.452 DN 10 to DN 50
- Stainless steel NPT threaded Ref.453 DN 3/8" to DN 2"

MATERIALS:



Item	Designation	Materials 412/413/414	Materials 452/453		
1	Wheel nut	Carbon steel	Carbon steel		
2	Name plate	Aluminium Aluminium			
3	Handwheel	Carbon steel Carbon steel			
4	Yoke nut	ASTM A582 type 416 ASTM A582 type 303			
5	Gland nut	ASTM A194 2H	ASTM A194 GR.8		
6	Gland flange	ASTM A105	ASTM A182 F304		
7	Gland stud	SS 410	ASTM A193 B8		
8	Gland	ASTM A276 type 410	ASTM A479 type 304		
9	Packing	Graphite	Graphite		
10	Bolts	ASTM A193 B7	ASTM A193 B8		
12	Stem	ASTM A276 type 410	ASTM A479 type 316		
13	Bonnet	ASTM A105N	ASTM A182 F316		
14	Gasket	SS 316 + graphite spiral wound	SS 316 + graphite spiral wound		
15	Seat	ASTM A276 type 410 + Stellite GR.6' ASTM A479 type 31			
18	Body	ASTM A105N ASTM A182 F316			
19	Disc	ASTM A276 type 410	ASTM A479 type 316		

SIZE (in mm):



REF.	DN	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
	Ø D	9	9	13	17.5	22.5	29.5	35
412/413/414	L	80	80	90	110	127	155	170
452/453	H (open)	148	148	165	180	213	248	257
	ØВ	90	90	90	110	130	130	180
413/414/453	L1	13	15	18	19	20	21	21
412/452	E(SW)	11.1	12.7	14.5	16	17.5	19	22
	ØF(SW)	17.6	21.72	27.05	33.78	42.54	48.64	61.11
412/413/414	Weight (Kg)	1.9	1.9	2.14	3.42	5.14	7.06	11
452/453	Weight (Kg)	1.9	1.9	2.18	3.52	5.3	7.3	11.3

STANDARDS:

• F	abrication according to ISO 9001 :2008
	DIRECTIVE 97/23/CE : CE N° 0036 Risk category III module H
• C	Conception according to API 6D
• Te	ests according to API 598
• A	approval certificate Russian Federation GOST-R
• V	alves approved by the main oil industries (certificates on request)
• A	TEX Group II Category 2 G/2D Zone 1 & 21 Zone 2 &22 (optional marking)
• T	hreaded female BSP cylindrical ends according to ISO 7-1 Rp
• T	hreaded female NPT ends according to ANSI B1.20.1
	Dur opinion and our advice are not guaranteed and SFERACO shall not be liable for the consequences of damages. Iter must check the right choice of the products with the real service conditions.
	INSTALLATION INSTRUCTIONS

GENERAL GUIDELINES:

- Ensure that the valves to be used are appropriate for the conditions of the installation (type of fluid, pressure and temperature).
- Be sure to have enough valves to be able to isolate the sections of piping as well as the appropriate equipment for maintenance and repair.
- Ensure that the valves to be installed are of correct strength to be able to support the capacity of their usage.
- Installation of all circuits should ensure that their function can be automatically tested on a regular basis (at least two times a year).

INSTALLATION INSTRUCTIONS:

- Before installing the valves, clean and remove any objects from the pipes (in particular bits of sealing and metal) which could obstruct and block the valves.
- Ensure that both connecting pipes either side of the valve (upstream and downstream) are aligned (if they're not,the valves may not work correctly).
- Make sure that the two sections of the pipe (upstream and downstream) match, the valve unit will not absorb any gaps. Any distortions in the pipes may affect the thightness of the connection, the working of the valve and can even cause a rupture. To be sure, place the kit in position to ensure the assembling will work.
- During welding operation, for S.W. types half open the valve and do not exceed 350-400°C
- The theoretical lengths given by ISO/R7 for the tapping are typically longer than required, the length of the thread should be limited, and check that the end of the tube does not press right up to the head of the thread.
- · Never use a vice to tighten the fixings of the valve.
 - If sections of piping do not have their final support in place, they should be temporarily fixed. This is to avoid unnecessary strain on the valve.
 - It may be necessary to screw the packing gland during using according to the type of use.
 - Do not use a tool to shut the valve
 - Fluids in the valve must not contain solid objects (it could damaged the seat).
- It's recommended to operate the valve (open and close) 1 to 2 times per year