

Model 147



For liquids, gases and steam.

For use in hydraulic, pneumatic, heating and steam systems, chemical and food industries, etc.

In accordance with the requirements of the pressure equipment directive 2014/68/EU.

EC valve verification certified by: TÜV Rheinland Industrie Service GmbH, Notified Body for Pressure Equipment ID-No. 0035.

Final product verification EC examination (Module B) certified by: TÜV Rheinland Ibérica ICT, S.A.

In compliance with the ATEX 2014/34/EU directive equipment and systems for use in potentially explosive atmospheres".

In stainless steel with compliance with the NACE MR0175/EN ISO 15156:2003, "Petroleum and natural gas industries-Materials for use in H2S- containing environments in oil and gas production".

Specifications

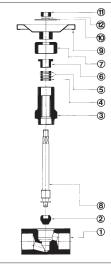
- Mobile or floating closure.
- Reduced pitch.
- Lightly tightening the handwheel guarantees it is perfectly tightness, which exceeds the standard EN 12266-1.
- Axis with rear closure "back seating" which allows the packing to be changed while in use and thus avoids it having any contact with the fluid.
- Fully constructed from laminated bars.

IMPORTANT

Depending on demand:

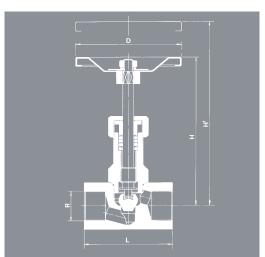
- Possibility of manufacture in other types of material, for use in special working conditions (high temperatures, fluids, etc.).
- PTFE (Teflón) packing.
- Stainless steel handwheel or handle (EN-1.4401).
- Other connections.

N°. PIECE	PIECE	MATERIAL										
N°. PIECE	PIECE	BRASS			CARBON STEEL			STAINLESS STEEL				
1	Body	Brass (EN-CW617N)			Carbo	Carbon steel (EN-1.1191)			Stainless steel (EN-1.4401)			
2	Closure	Stainless steel (EN-1.4401)			Stainle	Stainless steel (EN-1.4401)			Stainless steel (EN-1.4401)			
3	Stuffing box body	Brass (EN-CW617N)			Carbo	Carbon steel (EN-1.1191)			Stainless steel (EN-1.4401)			
4	Ring	Stainless steel (EN-1.4401)			Stainle	Stainless steel (EN-1.4401)			Stainless steel (EN-1.4401)			
5	Packing	Graphite			Graph	Graphite			Graphite			
6	Stuffing box	Brass (EN-CW617N)			Carbon steel (EN-1.1191)			Stainless steel (EN-1.4401)				
7	Stuffing box nut	Brass (EN-CW617N)			Carbo	Carbon steel (EN-1.1191)			Stainless steel (EN-1.4401)			
8	Axis	Stainless steel (EN-1.4401)			Stainle	Stainless steel (EN-1.4401)			Stainless steel (EN-1.4401)			
9	Handwheel (1)	Carbon steel (EN-1.0517)			Carbon steel (EN-1.0517)			Carbon steel (EN-1.0517)				
10	Plate	Aluminium			Aluminium			Aluminium				
11	Nut	Stainless steel (EN-1.4401)			Stainle	Stainless steel (EN-1.4401)			Stainless steel (EN-1.4401)			
12	Washer	Stainless steel (EN-1.4401)			Stainless steel (EN-1.4401)			Stainless steel (EN-1.4401)				
				1/4" t	o 2" (GA	S, NPT	SW)					
PN		200			250			250				
	PRESSURE IN bar	200	175	34	250	211	180	167	250	207	170	164
OPERATING CONDITIONS	MAXIMUM TEMP. IN °C	120	150	200	120	300	350	400	120	200	350	400
22127110110	MINIMUM TEMP. IN °C	-60			-10			-60				



(1) The 1/4" to 11/4" handwheels are supplied in Aluminium (EN-AC-44200).

R			1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"		
			Whitworth gas-tight cylindrical female thread ISO 228/1 (DIN-259)									
CONNECTIONS			NPT thread ANSI/ASME B1.20.1									
			Socket welding ends SW ASME B16.11									
Н			77	89	102	111	132	158	172	191		
H1			83	94	111	121	146	173	192	216		
L			50	55	65	75	90	95	100	112		
D			60	60	75	75	90	100	125	125		
REDUCED PITCH Ø			6,00	8,00	9,50	11,50	15,00	17,00	21,00	25,00		
	BRASS		0,38	0,65	0,98	1,12	2,58	3,36	4,59	7,76		
WEIGHT IN kgs.	CARBON STEEL		0,35	0,50	0,92		2,40		4,31	7,22		
	STAINLEES STEEL		0,36	0,51	0,93	1,06	2,43	3,20	4,36	7,31		
CODE	BRASS 2004-147.	GAS	0041	0381	0021	0341	0101	0141	0121	0201		
		NPT	00411	03811	00211	03411	01011	01411	01211	02011		
	CARBON STEEL 2004-147.	GAS	0044	0384	0024	0344	0104	0144	0124	0204		
		NPT	00441	03841	00241	03441	01041	01441	01241	02041		
		SW	00442	03842	00242	03442	01042	01442	01242	02042		
	STAINLESS STEEL 2004-147.	GAS	0042	0382	0022	0342	0102	0142	0122	0202		
		NPT	00421	03821	00221	03421	01021	01421	01221	02021		
		SW	00422	03822	00222	03422	01022	01422	01222	02022		



	FLOW COEFFICIENT					
DN	Kv m^3/h $\Delta P = 1 bar$	Cv US gpm ΔP = 1 Psi = 0,07 bar				
1/4"	0,51	0,59				
3/8"	1,05	1,22				
1/2"	1,22	1,42				
3/4"	2,08	2,41				
1"	4,39	5,09				
1 1/4"	5,19	6,02				
1 1/2"	7,82	9,07				
2"	10,67	12,38				

Load losses

The adjoining diagram reflects the load loss curves for water at 20°C .

In order to determine other fluids load losses, calculate the flow of these equivalent to water.

$$QA = \sqrt{\frac{\varrho}{1.000}} \cdot Q$$

QA = Flow equivalent to water in m³/h.

 $\ensuremath{\underline{Q}}\ = \mbox{Fluid density in operating conditions in Kg/m³}.$

Q = Fluid flow in operating conditions in m^3/h .

