

# HP TF

High Pressure Regulator



**GASCAT**

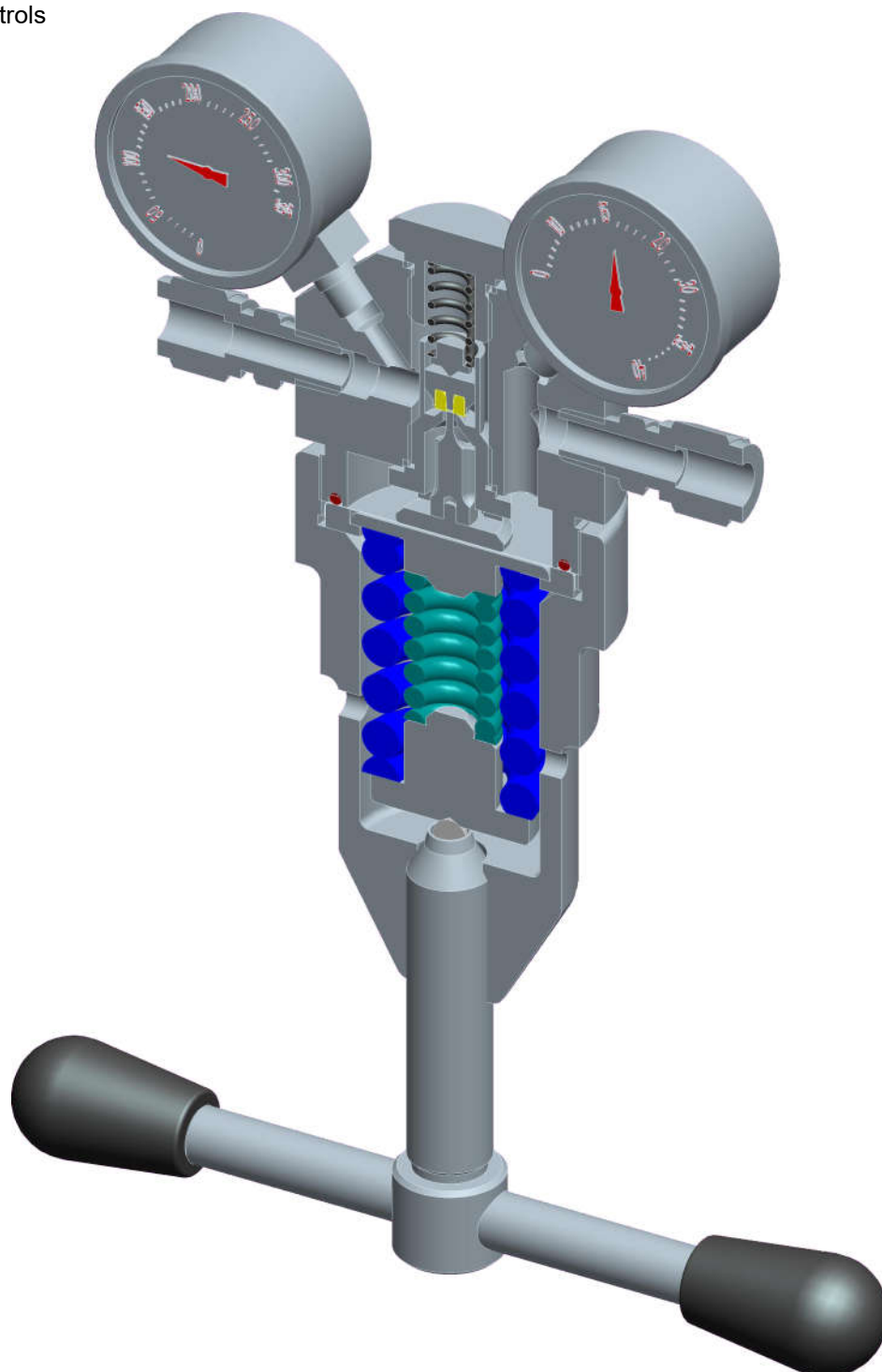
The HP TF Pressure Regulator is designed and manufactured in accordance with internationally recognized standards of quality and advanced technology. The device is engineered to ensure the integrity of the fluid and to prevent risks associated with deterioration and contamination, as it does not utilize materials prone to such issues.

This regulator offers pressures adjustment from 0 bar to 420 bar, depending on the specified regulating spring, and is capable of withstanding a maximum inlet pressure of up to 800 bar.

The body and internal components are made in stainless steel, enabling its use with a broad range of high-pressure fluids safely and effectively.

highlight below some of the main applications of a wide variety in which this regulator can be used:

- Tubing cleaning
- Formation of atmospheres with neutral gases
- Gas propulsion
- Pneumatic and Hydraulic Controls
- High pressure static tests
- Tyre inflation

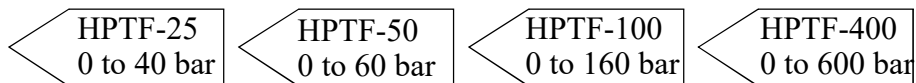


## PRINCIPAL CHARACTERISTICS

### Manometers

Upstream Manometer: 0 to 1100 bar

Downstream Manometer



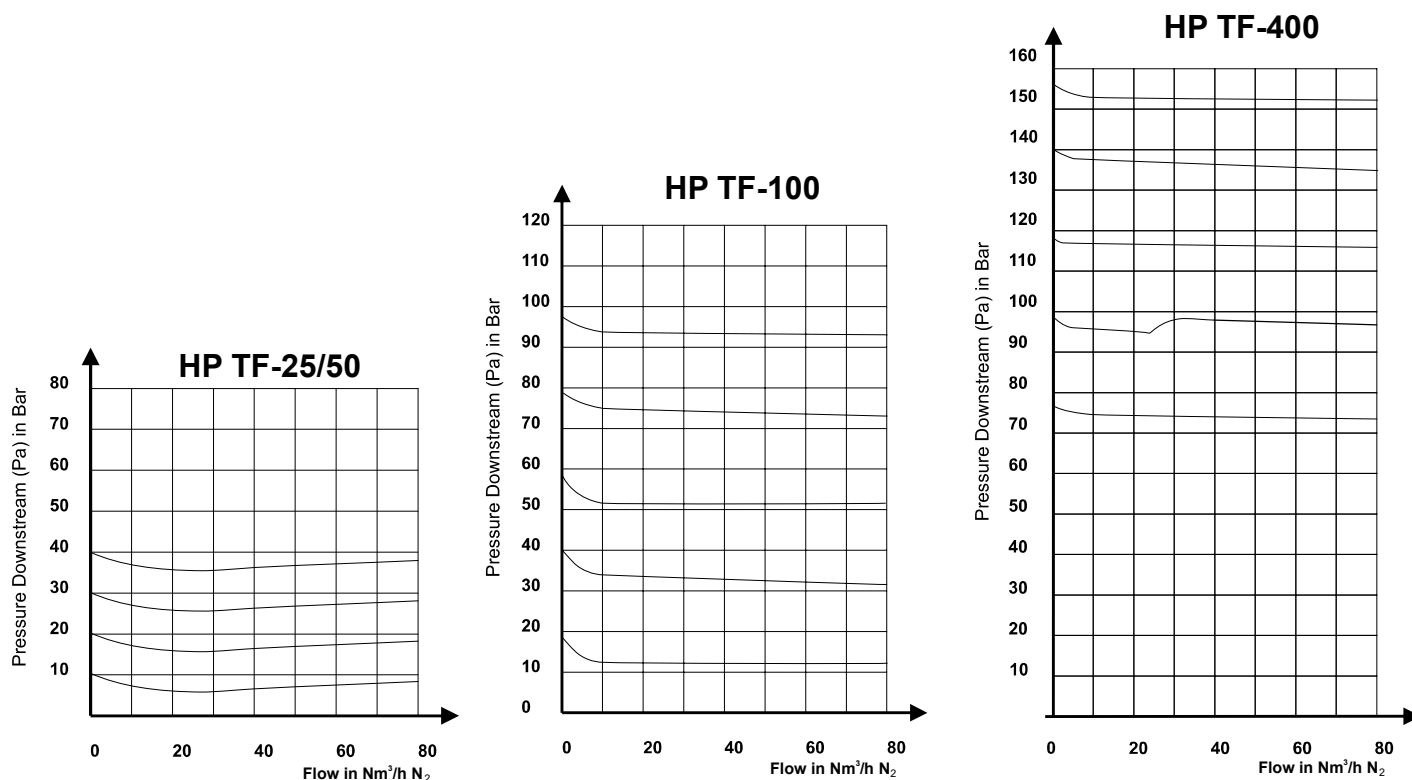
### Ranges of Operations

MODELS	Pressure Upstream max. bar	Pressure Downstream bar	Medium flow in Nm <sup>3</sup> /h N <sub>2</sub>
HP TF-25	800	1,5 a 20	50 a 140
HP TF-50	800	4 a 40	
HP TF-100	800	10 a 90	
HP TF-400	800	20 a 420	

### Flow Table

Pressure in bar Upstream	HP TF-400										
	HP TF-100										
	HP TF-50										
Downstream	5	10	20	40	60	80	100	120	150	200	420
30	35	40	42								
60	48	55	57	60							
90	86	95	97	100	110	95					
120	97	110	111	150	155	159	150				
150	115	130	131	200	210	220	195	180			
200	122	147	149	210	220	230	220	215	210		
800	146	155	170	240	250	260	280	270	243	240	240

Flow Capacity:



Obs. Pressure Upstream 2 Pa + 1 bar (valid for HP-TF-25/50/100)

## TECHNICAL CHARACTERISTICS

COMPONENT	MATERIAL
Body	AISI 304-304L / AISI 316-316L / INCONEL / MONEL / HASTELLOY / DUPLEX / SUPER DUPLEX / TITANIUM
Cover	AISI 304-304L / AISI 316-316L / INCONEL / MONEL / HASTELLOY / DUPLEX / SUPER DUPLEX / TITANIUM
Piston	AISI 304-304L / AISI 316-316L / INCONEL / MONEL / HASTELLOY / DUPLEX / SUPER DUPLEX / TITANIUM
Diaphragm	Buna N/ VITON/ EPDM/ AISI 304-304L/ AISI 316-316L/ AISI 302/ INCONEL/ MONEL/ HASTELLOY
Sead	AISI 304-304L / AISI 316-316L / INCONEL / MONEL / HASTELLOY / DUPLEX / SUPER DUPLEX / TITANIUM
Obturator	AISI 316 / POLYURETHANE / TEFLON / DELRIN / UHMW/ PEEK

### OPERATING LIMITS

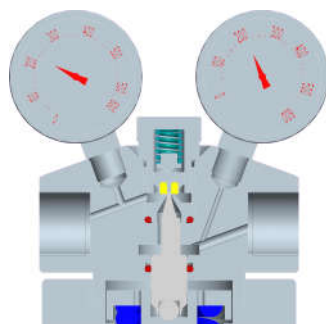
Inlet pressure maximum	800 bar (Note 1)
Outlet Pressure	1,5 bar ~ 420 bar (Note 1)
Temperatures Range	-30°C ~ +80°C (Note 2)

Notes:

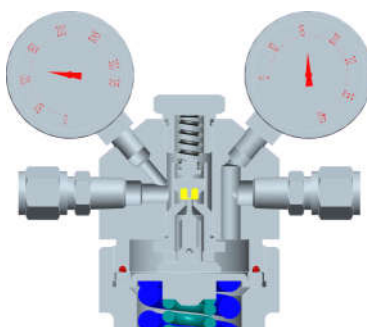
1- Pressure limits may vary according to requested connection.

2- Gascat should be consulted for temperatures other than the aforementioned range.

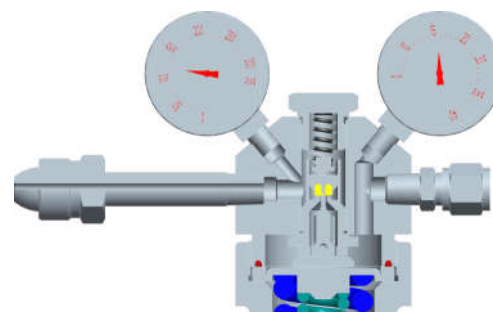
END CONNECTIONS	DN
CONNECTION: NPT CONNECTION: BSP READY TO O.D CONNECTIONS CONNECTIONS ACCORDING TO ABNT PB 588	1/4" x 1/4" 1/2" x 1/2" 3/4" x 3/4"
FLANGED ANSI 1500# and 2500#	1/2", 3/4" or 1"



Threaded Connections  
NPT /BSP



Ready to O.D Connections



Connections according to  
ABNT PB 588



### Gascat Indústria e Comércio Ltda.

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Distributor

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