TESCOM

26-1700 Series

Regulators - Relief / Backpressure

D26170543X012

Specifications

For other materials or modifications, please consult TESCOM.

OPERATING PARAMETERS

Pressure rating per criteria of ANSI/ASME B31.3

Maximum Inlet Pressure
10,000 psig / 689 bar

Controlled Pressure Ranges
5-500, 5-800, 10-1500,15-2500, 25-4000, 50-6000, and 200-10,000 psig

0.35-34.5, 0.35-55.2, 0.69-103, 1.03-172, 1.72-276, 3.45-414, and 13.8-689 bar

Design Proof Pressure
150% maximum rated

Leakage
Bubble-tight

Operating Temperature
-40°F to 165°F / -40°C to 74°C

Flow Capacity
C_V = 0.10 (26-17X1 through 26-17X4)
C_V = 0.14 (26-17X5 through 26-17X7)

Maximum Operating Torque
40 in-lbs / 4.5 N • m

MEDIA CONTACT MATERIALS

Back-up Ring
Teflon®

Body
316 Stainless Steel

O-Rings
Buna-N

Seal
CTFE

Seat
CTFE (26-17X1 through 26-17X4)
Teflon® (26-17X5 through 26-17X7)

Trim
300 Series Stainless Steel

Remaining Parts
300 Series Stainless Steel

OTHER

Cleaning
CGA 4.1 and ASTM G93

Weight
5 lbs / 2.2 kg

Teflon® is a registered trademark of E.I. du Pont de Nemours and Company.

TESCOM 26-1700 Series regulator controls pressures up to 15,000 psig / 1034 bar and is suitable for gas or liquid service.

Applications

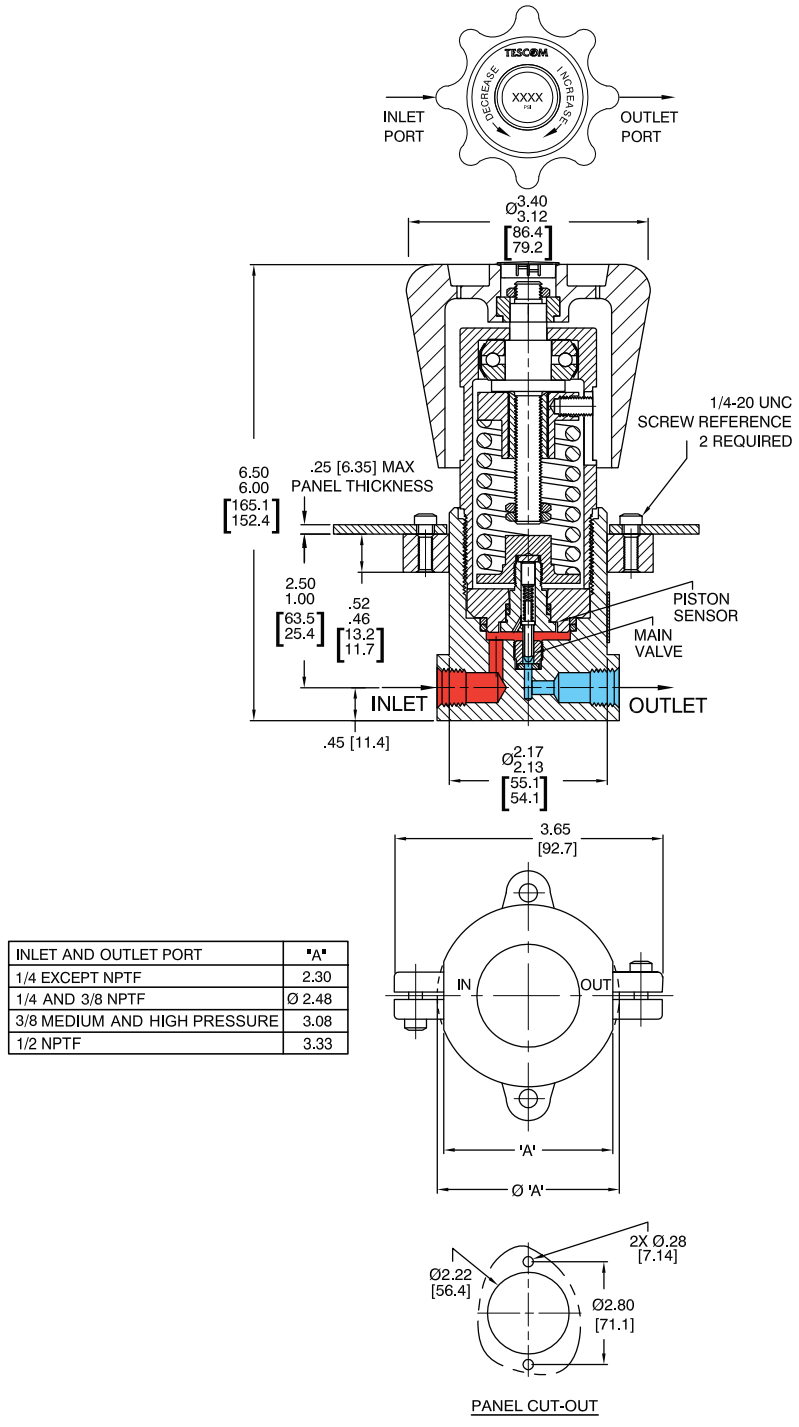
- Pump discharge pressure control
- Reactor pressure control
- Over-pressurization relief

Features and Benefits

- Accuracy: ±1% of central pressure range
- NACE Compatible design available
- Wide range of applications due to:
  - Seven different control pressure ranges
  - 200-15,000 psig / 13.8-1034 bar control is optional
  - High flow C_V = 0.60 and low flow C_V = 0.02 models are available
- Bubble-tight shut-off at all reseat pressures
- Safe and reliable piston-style sensor
- Panel mounting is standard
- Compatible with TESCOM Air Actuators and ER3000 Electropneumatic Controllers

EMERSON
Process Management

26-1700 Series Regulator Drawing

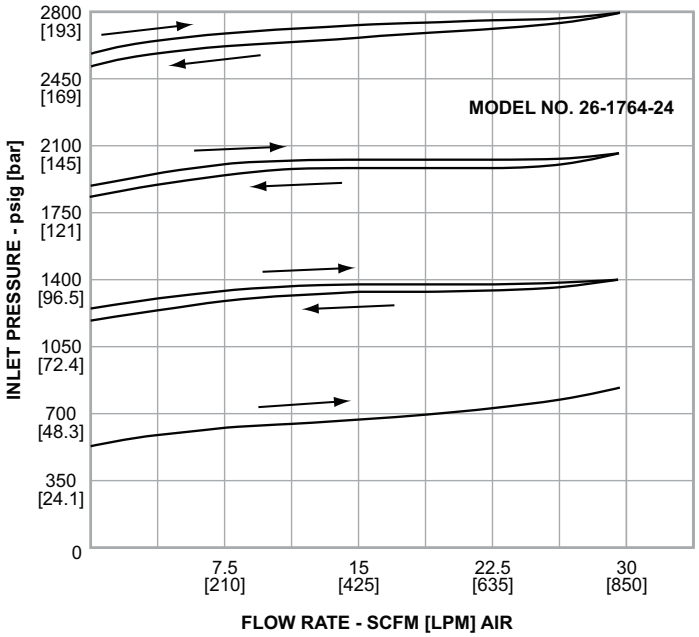


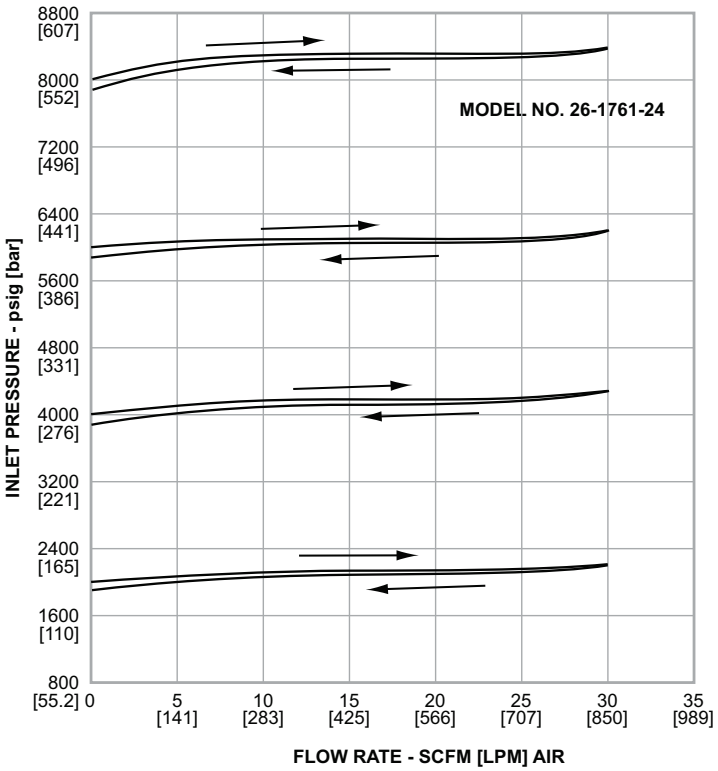
INLET AND OUTLET PORT	"A"
1/4 EXCEPT NPTF	2.30
1/4 AND 3/8 NPTF	Ø 2.48
3/8 MEDIUM AND HIGH PRESSURE	3.08
1/2 NPTF	3.33

All dimensions are reference & nominal
Metric [millimeter] equivalents are in brackets

26-1700 Series Regulator Flow Charts

For more information on how to read flow curves, please refer to the Flow Curves and Calculations document (debul2007x012) in the TESCOM catalog or on www.tescom.com.





26-1700 Series Regulator Part Number Selector

Repair Kits, Accessories & Modifications may be available for this product. Please contact TESCOM for more information.

Example for selecting a part number:

26-17 6 4 - 2 4 [BLANK]

BASIC SERIES	BODY AND BONNET MATERIAL	CONTROLLED PRESSURE RANGES	INLET AND OUTLET PORT TYPE	INLET AND OUTLET PORT SIZE	OPTIONS
26-17	**6 –** 316 Stainless Steel	**1 –** 200-10,000 psig 13.8-689 bar **2 –** 50-6000 psig 3.45-414 bar **3 –** 25-4000 psig 1.72-276 bar **4 –** 15-2500 psig 1.03-172 bar **5 –** 10-1500 psig 0.69-103 bar **6 –** 5-800 psig 0.35-55.2 bar **7 –** 5-500 psig 0.35-34.5 bar	**1 –** SAE **2 –** NPTF **3 –** MS33649 **4 –** High Pressure **6 –** Medium Pressure	**2 –** 1/8" **4 –** 1/4" **6 –** 3/8" **8 –** 1/2"*	**[BLANK] –** None **- 065 –** 316 Stainless Steel Wetted **- 099 –** 200-15,000 psig / 13.8-1034 bar Control Range, C_V = 0.02 **- 154 –** C_V = 0.02 **- 161 –** Urethane O-Rings CO_2 Service **- 184 –** C_V = 0.60, 5000 psig / 345 bar, 1/2" NPTF Ports

** Available for NPTF only.*

26-1700F Series

Regulators - Relief / Backpressure

D2617FL10141XEN2

Specifications

For other materials or modifications, please consult TESCOM.

OPERATING PARAMETERS

Pressure rating per criteria of ANSI/ASME B31.3

Controlled Pressure Range
5-500 psig / 0.34-34.5 bar

Design Proof Pressure
150% of rated pressure

Design Burst Pressure
400% of rated pressure

Leakage
Bubble-tight

Flow Capacity
C_V = 0.14

Operating Temperature
-15°F to 165°F / -26°C to 74°C

Maximum Operating Torque
40 in-lbs / 4.5 N•m

MEDIA CONTACT MATERIALS

Body
316L Stainless Steel

Main Valve Seat
Teflon®

Seal
CTFE

Back-up Rings
Teflon®

O-Ring
Buna-N

Remaining Parts
300 Series Stainless Steel

OTHER

Weight (approximate)
DN 15: 8 lbs / 3.6 kg
DN 20/25: 11 lbs / 5 kg

Teflon® is a registered trademark of E.I. du Pont de Nemours and Company.

TESCOM 26-1700F Series backpressure regulators provide welded flanges according to EN 1092 and are suitable for gas or liquid service.

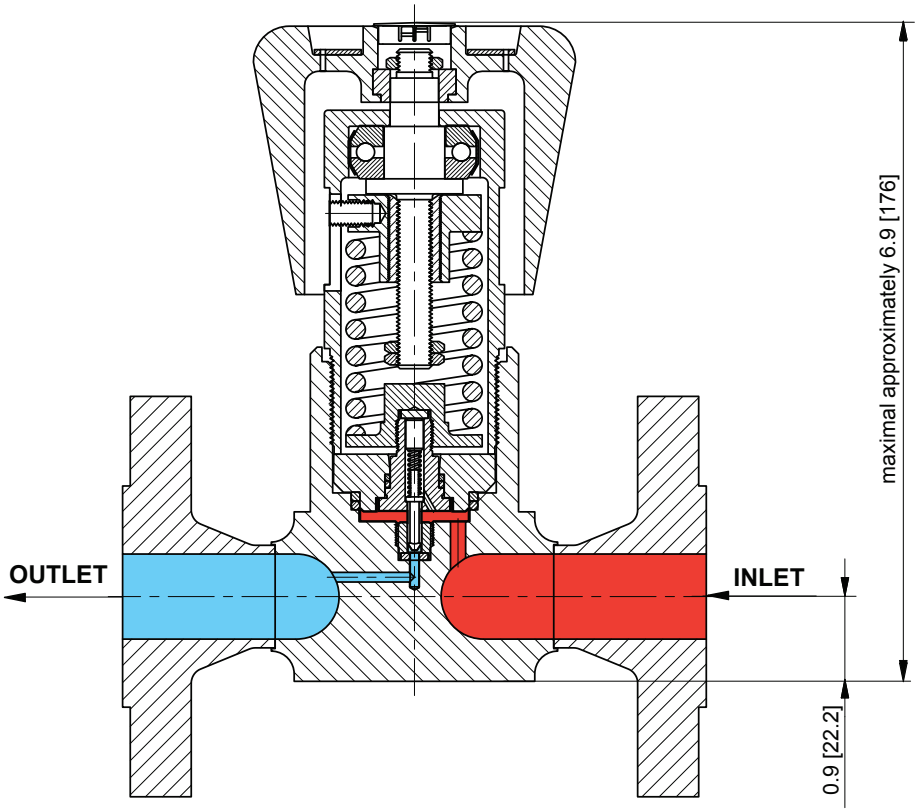
Applications

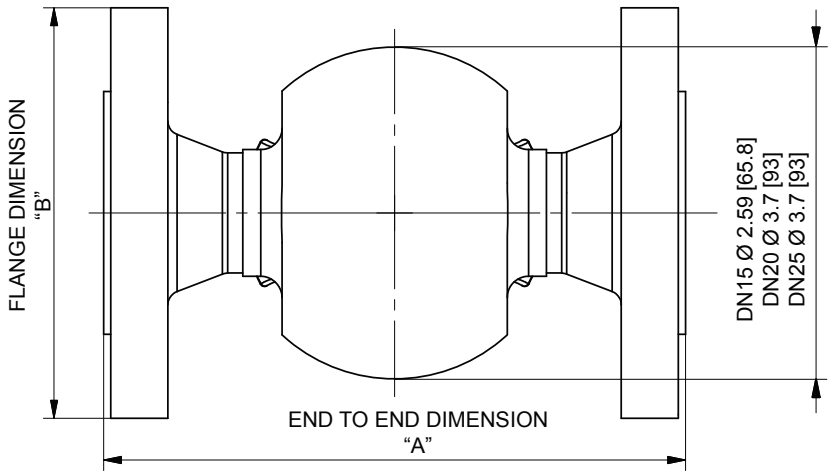
- Pilot plants (i.e. in the chemical industry)
- Pressure control of reactor or vessel applications

Features and Benefits

- Flange connections according to DIN EN 1092-1 Type 11 for easy line integration
- Face-to-face dimensions according to DIN EN 558, Row 1
- Connection up to DN 25
- Setpoint repeatability exceeds conventional relief valves
- Bubble-tight shutoff at all reseat pressures
- Safe and reliable piston-style sensor
- Compatible with the Tescom Air Actuator and ER3000 Electropneumatic Controller for remote control
- Other connection standards upon request

26-1700F Series Regulator Drawing

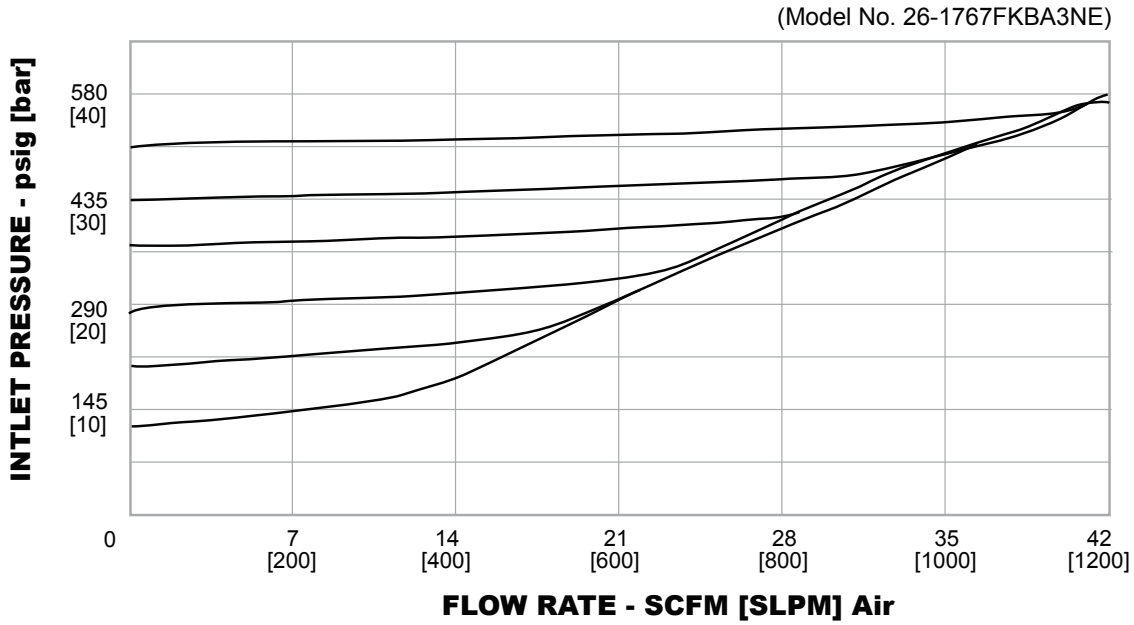




All dimensions are reference & nominal
Metric [millimeter] equivalents are in brackets

26-1700F Series Regulator Flow Chart

For more information on how to read flow curves, please refer to the Flow Curves and Calculations document (debul2007x012) in the TESCOM catalog or on www.tescom.com.



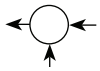
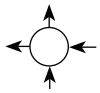
26-1700F Series Regulator Part Number Selector

Repair Kits, Accessories & Modifications may be available for this product. Please contact TESCOM for more information.

Example for selecting a part number:

FLANGE — EN1092-1

26-17 6 7 F K B F 3 N E

BASIC SERIES	BODY AND FLANGE MATERIAL	CONTROLLED PRESSURE RANGE	INLET AND OUTLET PORT TYPE	"A" ±.08" ±2 mm	"B" ±.08" ±2 mm	FLANGE TYPE	GAUGE PORT OPTIONS	FLOW CAPACITY	OPTIONAL ITEM
26-17	**6 –** 316L Stainless Steel	**7 –** 5-500 psig 0.34-34.5 bar	**K –** DN 15	5.12 130	3.74 95	**B –** Form B - raised face	**A –** None 	**3 –** C_V = 0.14	**N –** None
			L – DN 20	5.90 150	4.13 105	**D –** Form D - ring joint	**F –** 1/4" NPTF 1 x in 		
			M – DN 25	6.30 160	4.53 115		**G –** 1/4" NPTF 1 x in 		
							L – 1/4" NPTF 1 x in, 1 x out 		

Kits

	BASIC SERIES	PART NUMBER
NON METALLIC	26-17XXFXXXXXX	389-1268
REPAIR	26-17XXFXXXXXX	389-6574