

# **Flexion**<sup>TM</sup>

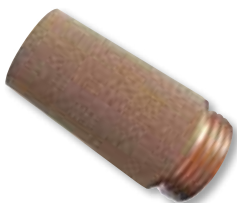
## ACCESSORIES

**Any system is only as good as its weakest link. FLEXION<sup>TM</sup> have brought together a range of supporting products used to connect and enhance the performance of the complete system.**

Quality and performance are just as critical when you consider that these form the main connection between the operating units. As a leading pneumatics supplier we have developed ranges based on our many years experience manufacturing specialist systems.



### SILENCERS



### AIRLINE COILS & BLOW GUNS



### GAUGES



### TUBE CUTTER



### NYLON & PU TUBING



### BALL VALVES



### BLOW GUNS



## SILENCERS

### SINTERED BRONZE - MALE

Code	Thread Size
SLNCR-B-STD-1/8-FX	1/8"
SLNCR-B-STD-1/4-FX	1/4"

Code	Thread Size
SLNCR-B-STD-3/8-FX	3/8"
SLNCR-B-STD-1/2-FX	1/2"



### FLAT SINTERED BRONZE WASHERS - MALE

Code	Thread Size
SLNCR-B-PLUG-1/8-FX	1/8"
SLNCR-B-PLUG-1/4-FX	1/4"

Code	Thread Size
SLNCR-B-PLUG-3/8-FX	3/8"
SLNCR-B-PLUG-1/2-FX	1/2"



### FLAT SINTERED BRONZE - MALE

Code	Thread Size
SLNCR-B-FLAT-1/8-FX	1/8"
SLNCR-B-FLAT-1/4-FX	1/4"

Code	Thread Size
SLNCR-B-FLAT-3/8-FX	3/8"
SLNCR-B-FLAT-1/2-FX	1/2"



### POLYETHYLENE - MALE

Code	Thread Size
SLNCR-P-STD-1/8-FX	1/8"
SLNCR-P-STD-1/4-FX	1/4"

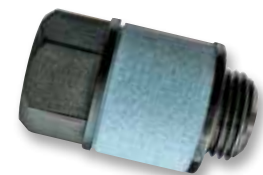
Code	Thread Size
SLNCR-P-STD-3/8-FX	3/8"
SLNCR-P-STD-1/2-FX	1/2"



### POLYETHYLENE REGULATOR - MALE

Code	Thread Size
SLNCR-P-FLWCT-1/8-FX	1/8"
SLNCR-P-FLWCT-1/4-FX	1/4"

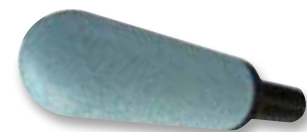
Code	Thread Size
SLNCR-P-FLWCT-3/8-FX	3/8"
SLNCR-P-FLWCT-1/2-FX	1/2"

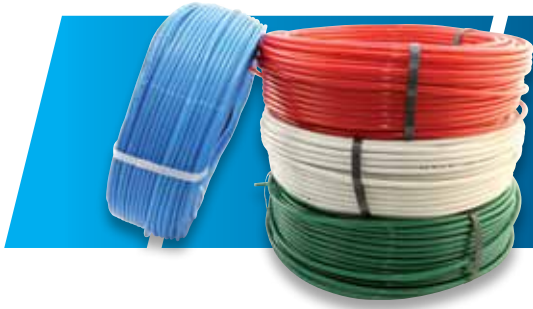


### METRIC POLYETHYLENE PUSH IN - MALE

Code	Thread Size
SLNCR-P-STEM-6MM-FX	6
SLNCR-P-STEM-8MM-FX	8

Code	Thread Size
SLNCR-P-STEM-10MM-FX	10
SLNCR-P-STEM-12MM-FX	12





## FLEXION<sup>TM</sup> PA12 NYLON TUBE

### SPECIFICATIONS

<b>Temperature</b>	-40°C to +80°C
<b>Tolerances</b>	ID +/- 0.1mm OD + 0.0/-0.1mm

Temp	20°C	30°C	50°C	60°C	80°C
<b>Pressure %</b>	100	83	62	56	50

Pressure ratings are for use in ambient temperatures of 20°C.  
% Pressure rating with temperature increase

### TECHNICAL DATA

O.D / I.D Wall Thickness (mm)	Working Pressure Bar	Burst Pressure Bar	Bend Radius mm
<b>4 x 2.5 x 0.75</b>	38	152	8
<b>6 x 4 x 1</b>	31	127	13
<b>8 x 6 x 1</b>	21	84	32
<b>10 x 7 x 1.5</b>	27	109	32
<b>10 x 8 x 1</b>	15	63	50
<b>12 x 9 x 1.5</b>	21	84	45
<b>16 x 12 x 2</b>	21	84	85

### PA12 NYLON TUBE (SUPPLIED IN 30M COILS)

Code	Size (O/D I/D)	Colour
TU-NY-425-BLK-30M-FX	4 x 2.5	Black
TU-NY-425-BLU-30M-FX	4 x 2.5	Blue
TU-NY-425-GRN-30M-FX	4 x 2.5	Green
TU-NY-425-NAT-30M-FX	4 x 2.5	Natural
TU-NY-425-RED-30M-FX	4 x 2.5	Red
TU-NY-425-YEL-30M-FX	4 x 2.5	Yellow
TU-NY-640-BLK-30M-FX	6 x 4	Black
TU-NY-640-BLU-30M-FX	6 x 4	Blue
TU-NY-640-GRN-30M-FX	6 x 4	Green
TU-NY-640-NAT-30M-FX	6 x 4	Natural
TU-NY-640-RED-30M-FX	6 x 4	Red
TU-NY-640-YEL-30M-FX	6 x 4	Yellow
TU-NY-860-BLK-30M-FX	8 x 6	Black
TU-NY-860-BLU-30M-FX	8 x 6	Blue
TU-NY-860-GRN-30M-FX	8 x 6	Green
TU-NY-860-NAT-30M-FX	8 x 6	Natural
TU-NY-860-RED-30M-FX	8 x 6	Red
TU-NY-860-YEL-30M-FX	8 x 6	Yellow

Code	Size (O/D I/D)	Colour
TU-NY-107-BLK-30M-FX	10 x 7	Black
TU-NY-107-BLU-30M-FX	10 x 7	Blue
TU-NY-107-GRN-30M-FX	10 x 7	Green
TU-NY-107-NAT-30M-FX	10 x 7	Natural
TU-NY-107-RED-30M-FX	10 x 7	Red
TU-NY-107-YEL-30M-FX	10 x 7	Yellow
TU-NY-108-BLK-30M-FX	10 x 8	Black
TU-NY-108-BLU-30M-FX	10 x 8	Blue
TU-NY-108-GRN-30M-FX	10 x 8	Green
TU-NY-108-NAT-30M-FX	10 x 8	Natural
TU-NY-108-RED-30M-FX	10 x 8	Red
TU-NY-108-YEL-30M-FX	10 x 8	Yellow
TU-NY-129-BLK-30M-FX	12 x 9	Black
TU-NY-129-BLU-30M-FX	12 x 9	Blue
TU-NY-129-GRN-30M-FX	12 x 9	Green
TU-NY-129-NAT-30M-FX	12 x 9	Natural
TU-NY-129-RED-30M-FX	12 x 9	Red
TU-NY-129-YEL-30M-FX	12 x 9	Yellow
TU-NY-129-BLK-30M-FX	12 x 9	Black
TU-NY-129-BLU-30M-FX	12 x 9	Blue



## FLEXION™ SH98 POLYURETHANE TUBE

### SPECIFICATIONS

<b>Temperature</b>	-40°C to +80°C
<b>Tolerances</b>	ID +/- 0.1mm OD + 0.0/-0.1mm

### TECHNICAL DATA

Fluid	Working Pressure Bar	Burst Pressure Bar	Bend Radius mm
<b>4 x 2.5 x 0.75</b>	11	35	15
<b>6 x 4 x 1</b>	10	30	25
<b>8 x 5.5 x 1.25</b>	8	26	40
<b>10 x 6.5 x 1.75</b>	15	45	35
<b>12 x 8 x 2</b>	8	25	55

### SH19 POLYURETHANE TUBE (SUPPLIED IN 25M COILS)

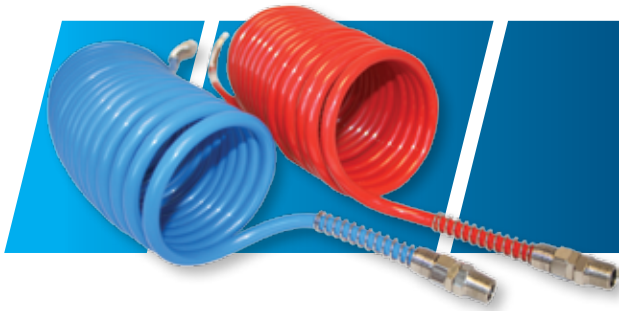
Code	Size (O/D I/D)	Colour
TU-PU-4/25-BLK-25M-FX	4 x 2.5	Black
TU-PU-4/25-BLU-25M-FX	4 x 2.5	Blue
TU-PU-4/25-GRN-25M-FX	4 x 2.5	Green
TU-PU-4/25-NAT-25M-FX	4 x 2.5	Natural
TU-PU-4/25-RED-25M-FX	4 x 2.5	Red
TU-PU-4/25-YEL-25M-FX	4 x 2.5	Yellow
TU-PU-6/4-BLK-25M-FX	6 x 4	Black
TU-PU-6/4-BLU-25M-FX	6 x 4	Blue
TU-PU-6/4-GRN-25M-FX	6 x 4	Green
TU-PU-6/4-NAT-25M-FX	6 x 4	Natural
TU-PU-6/4-RED-25M-FX	6 x 4	Red
TU-PU-6/4-YEL-25M-FX	6 x 4	Yellow
TU-PU-8/55-BLK-25M-FX	8 x 5.5	Black
TU-PU-8/55-BLU-25M-FX	8 x 5.5	Blue
TU-PU-8/55-GRN-25M-FX	8 x 5.5	Green
TU-PU-8/55-NAT-25M-FX	8 x 5.5	Natural
TU-PU-8/55-RED-25M-FX	8 x 5.5	Red
TU-PU-8/55-YEL-25M-FX	8 x 5.5	Yellow

Code	Size (O/D I/D)	Colour
TU-PU-10/65-BLK-25M-FX	10 x 6.5	Black
TU-PU-10/65-BLU-25M-FX	10 x 6.5	Blue
TU-PU-10/65-GRN-25M-FX	10 x 6.5	Green
TU-PU-10/65-NAT-25M-FX	10 x 6.5	Natural
TU-PU-10/65-RED-25M-FX	10 x 6.5	Red
TU-PU-10/65-YEL-25M-FX	10 x 6.5	Yellow
TU-PU-12/8-BLK-25M-FX	12 x 8	Black
TU-PU-12/8-BLU-25M-FX	12 x 8	Blue
TU-PU-12/8-GRN-25M-FX	12 x 8	Green
TU-PU-12/8-NAT-25M-FX	12 x 8	Natural
TU-PU-12/8-RED-25M-FX	12 x 8	Red
TU-PU-12/8-YEL-25M-FX	12 x 8	Yellow

### TUBE CUTTER

<b>Code</b>
TBCUT-FX





## FLEXION<sup>TM</sup> NYLON AND POLYURETHANE COMPACT PRE-FORMED AIRLINE COILS

- Fitted with BSPT Press-in-swivel couplings - complete with springs
- Excellent flexibility
- High resistance to oil, petrol, organic and inorganic media
- Lightweight
- Temperature range -40°C to +80°C
- Maximum working pressure 15 Bar

### NYLON AND POLYURETHANE COMPACT PRE-FORMED AIRLINE COILS

Part No	Tube O/D (mm)	Tube I/D (mm)	BSPT Male Thread	Working Length (m)
<b>Nylon</b>				
TU-NY-COIL-8/2-RED-FX	8	6	1/4"	2.5
TU-NY-COIL-8/2-BLUE-FX	8	6	1/4"	2.5
TU-NY-COIL-8/5-RED-FX	8	6	1/4"	5
TU-NY-COIL-8/5-BLUE-FX	8	6	1/4"	5
TU-NY-COIL-10/2-RED-FX	10	8	1/4"	2.5
TU-NY-COIL-10/2-BLUE-FX	10	8	1/4"	2.5
TU-NY-COIL-10/5-RED-FX	10	8	1/4"	5
TU-NY-COIL-10/5-BLUE-FX	10	8	1/4"	5
<b>Polyurethane</b>				
TU-PU-COIL-8/2-RED-FX	8	5	1/4"	2
TU-PU-COIL-8/2-BLUE-FX	8	5	1/4"	2
TU-PU-COIL-8/6-RED-FX	8	5	1/4"	6
TU-PU-COIL-8/6-BLUE-FX	8	5	1/4"	6
TU-PU-COIL-10/2-RED-FX	10	6.5	1/4"	2
TU-PU-COIL-10/2-BLUE-FX	10	6.5	1/4"	2
TU-PU-COIL-10/6-RED-FX	10	6.5	1/4"	6
TU-PU-COIL-10/6-BLUE-FX	10	6.5	1/4"	6

### BLOW GUNS

FX PNEUMATIC BLOW GUN - PLASTIC BODY

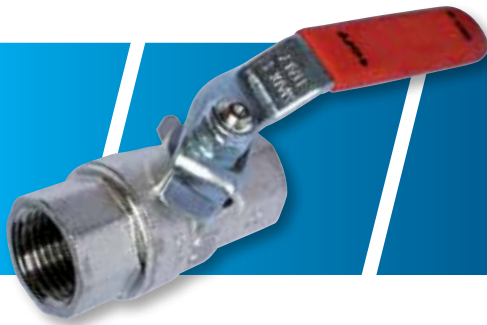
Code	Inlet
EAG-A-FX	1/4" BSP

FX PNEUMATIC BLOW GUN - METAL PISTOL GRIP

Code	Inlet
EAG-M-FX	1/4" BSP



NOTE: It is strongly recommended that blow guns are supplied with compressed air at no greater than 2 bar pressure



## FLEXION™ FULL BORE BALL VALVE

FEMALE / FEMALE

### SPECIFICATIONS

**Working Pressure** See chart below.

**Temperature** -20°C to +150°C

#### Materials:

Body	CW 617 N UNI EN 12165 Nickel plated forged brass
End Adapter	CW 617 N UNI EN 12165 Nickel-plated forged brass
Ball	CW 614 N UNI EN 12164 Machined brass bar, chrome-plated
Ball Gaskets	P.T.F.E. - Pure Teflon
Stem	CW 614 N UNI EN 12164 Machined brass bar, nickel-plated
Thrust Washer	P.T.F.E. - Pure Teflon
Stem Packing	P.T.F.E. - Pure Teflon
Gland	CW 614 N UNI EN 12164 Machined brass bar
Handle	Steel Fe P02 zinc-plated, red P.V.C. insulated
Self-Locking Nut	8G Steel, zinc-plated

### TECHNICAL DATA

#### Full Bore Series Application:

The full bore ball valves are suitable for hot and cold water, compressed air, oils, non-corrosive fluids and hydrocarbons in general

Standard line, full bore, short threads

Perfect seal at low and high pressure

Wear resistant, solid and long lasting materials

Rapid on/off 90° turn operation

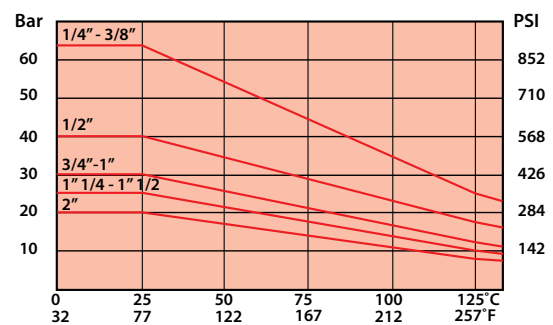
Easy visual control of open/closed position

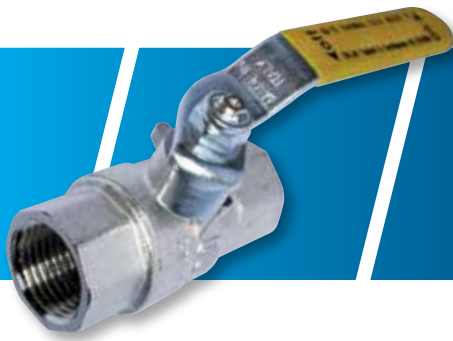
100% Leak Tested after final assembly - Zero Leak

Threadform to ISO 228/1 standard

### FULL BORE - FEMALE / FEMALE SH

Code	Threaded Size (BSPP)
BV-FB-FF-1/4-FX	1/4"
BV-FB-FF-3/8-FX	3/8"
BV-FB-FF-1/2-FX	1/2"
BV-FB-FF-3/4-FX	3/4"
BV-FB-FF-1-FX	1"
BV-FB-FF-1.1/4-FX	1 1/4"
BV-FB-FF-1.1/2-FX	1 1/2"
BV-FB-FF-2-FX	2"





## FLEXION™ GAS APPROVED BALL VALVE

FEMALE / FEMALE

### SPECIFICATIONS

<b>Working Pressure</b>	For gas max 5 Bar. For other uses from PN 40 (size 1/2") to PN 20 (size 2"). See chart below.
<b>Temperature</b>	For gas -20°C to +60°C. For other uses -20°C to +140°C

#### Materials:

Body	CW 617 N UNI EN 12165 Nickel-plated forged brass
End Adapter	CW 617 N UNI EN 12165 Nickel-plated forged brass
Ball	CW 614 N UNI EN 12164 Machined brass bar, chrome-plated
Ball Gaskets	P.T.F.E. - Pure Teflon
Stem	CW 614 N UNI EN 12164 Machined brass bar, nickel-plated
Handle	Steel Fe P02 zinc-plated, yellow P.V.C. insulated
Self-Locking Nut	8G Steel, zinc-plated

### TECHNICAL DATA

#### Gas Series Application:

The gas ball valves are suitable for all types of gas in systems using low and medium pressure. The TOP GAS ball valves are suitable for hot and cold water, compressed air, oils, non-corrosive fluids and hydrocarbons in general.

Standard line, full bore, long threads

Perfect seal at low and high pressure

Wear resistant, solid and long lasting materials

Rapid on/off 90° turn operation

Easy visual control of open/closed position

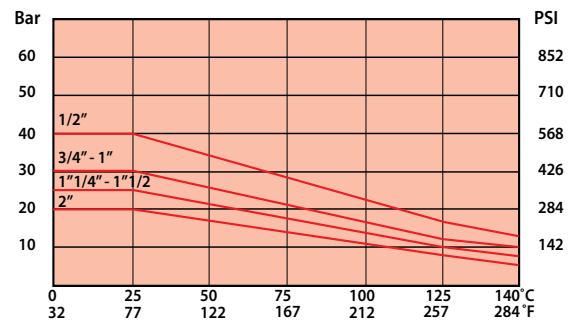
Threadform to ISO 7/1 Rp parallel standard

#### Double Seal Blow-out Proof Stem

(Full bore and gas series) These ball valves are bottom loaded stem designed. This "anti-blow-out" stem also prevents from tampering with the internals of the valve when in the line. The double seal is performed by an anti-friction teflon thrust washer, working as a high pressure gasket.

### GAS APPROVED - FEMALE / FEMALE SH

Code	Threaded Size (BSPP)
BV-GAS-FF-1/4-FX	1/4"
BV-GAS-FF-3/8-FX	3/8"
BV-GAS-FF-1/2-FX	1/2"
BV-GAS-FF-3/4-FX	3/4"
BV-GAS-FF-1-FX	1"
BV-GAS-FF-1.1/4-FX	1 1/4"
BV-GAS-FF-1.1/2-FX	1 1/2"
BV-GAS-FF-2-FX	2"





## FLEXION™ CHROME PLATED BALL VALVE WITH LEVER

FEMALE / FEMALE

### SPECIFICATIONS

<b>Working Pressure</b>	10 Bar (1.0MPa) max
<b>Temperature</b>	-10°C to +90°C

#### Materials:

Body	CW 617 N UNI EN 12165 Chrome-plated forged brass
Ring Nut	CW 614 N UNI EN 12164 Machined brass bar
Ball	CW 614 N UNI EN 12164 Machined brass bar, chrome-plated
Ball Gaskets	P.T.F.E. - Pure Teflon
Stem	CW 614 N UNI EN 12164 Machined brass bar, nickel-plated
Stem O Ring	NBR black rubber
Lever Handle	Glass-filled nylon, black coloured
Screw	8G Steel, zinc-plated

### TECHNICAL DATA

#### Mini Ball Valve Application:

The mini ball valves are suitable for hot and cold water, compressed air, oils, non-corrosive fluids and hydrocarbons in general

Since the mini ball valves only have one 'O' Ring, their use for gas applications is not advisable

Compact line design, reduced bore

Rapid on/off 90° turn operation

Easy visual control of open/closed position

Threadform to ISO 228/1 standard

#### Blow-out Proof Stem

The mini ball valves have a bottom loaded stem designed. This "anti-blow-out" stem also prevents from tampering with the internals of the valve when in the line. The tightness is obtained by means of a rubber 'O' Ring.

### MINI BALL VALVE - FEMALE / FEMALE SH

Code	Threaded Size (BSPP)
BV-MINI-FF-1/8-FX	1/8"
BV-MINI-FF-1/4-FX	1/4"
BV-MINI-FF-3/8-FX	3/8"
BV-MINI-FF-1/2-FX	1/2"
BV-MINI-FF-3/4-FX	3/4"





## FLEXION<sup>TM</sup> GAUGES

### SPECIFICATIONS

**Temperature** -25°C to +60°C

#### Materials:

Case	Black Painted Steel
Window	Polycarbonate
Internal Parts	Brass, Bourdon tube
Mounting Threads	BSPT (unless otherwise stated)

### TECHNICAL DATA

#### General Purpose

Pressure gauges for use in non-corrosive environments, typically used for pneumatic applications

Ranges 40mm to 100mm

Dial -1 to 20 Bar

Dual Scale - Bar / p.s.i.

40, 50 & 63mm Snap on window

100mm and all panel mount sizes chromed bezel

Accuracy 40/50/63mm ASME B40.1-1991 B GRADE (+/- 3% of span)

100 ASME B40.1-1991 A GRADE (+/- 1% of span)

### CENTRE BACK

Code	Threaded Size	Dia	Range Bar
PG40-0/-1-CB-FX	1/8"	40	-1 - 0
PG40-02-CB-FX	1/8"	40	0 - 2
PG40-04-CB-FX	1/8"	40	0 - 4
PG40-06-CB-FX	1/8"	40	0 - 6
PG40-10-CB-FX	1/8"	40	0 - 10
PG40-16-CB-FX	1/8"	40	0 - 16
PG40-20-CB-FX	1/8"	40	0 - 20

Code	Threaded Size	Dia	Range Bar
PG50-0/-1-CB-FX	1/8"	50	-1 - 0
PG50-02-CB-FX	1/8"	50	0 - 2
PG50-04-CB-FX	1/8"	50	0 - 4
PG50-06-CB-FX	1/8"	50	0 - 6
PG50-10-CB-FX	1/8"	50	0 - 10
PG50-20-CB-FX	1/8"	50	0 - 20
PG63-02-CB-FX	1/4"	63	0 - 2
PG63-04-CB-FX	1/4"	63	0 - 4
PG63-06-CB-FX	1/4"	63	0 - 6
PG63-10-CB-FX	1/4"	63	0 - 10
PG63-20-CB-FX	1/4"	63	0 - 20



### CENTRE BACK PANEL MOUNT

Code	Threaded Size	Dia	Range Bar
PG40-02-PM-FX	1/8"	40	0 - 2
PG40-04-PM-FX	1/8"	40	0 - 4
PG40-06-PM-FX	1/8"	40	0 - 6
PG40-10-PM-FX	1/8"	40	0 - 10

Code	Threaded Size	Dia	Range Bar
PG50-02-PM-FX	1/8"	50	0 - 2
PG50-04-PM-FX	1/8"	50	0 - 4
PG50-06-PM-FX	1/8"	50	0 - 6
PG50-10-PM-FX	1/8"	50	0 - 10



## GAUGES

### BOTTOM ENTRY

Code	Threaded Size	Dia	Range Bar
PG50-0/-1-BE-FX	1/8"	50	-1 - 0
PG50-02-BE-FX	1/8"	50	0 - 2
PG50-06-BE-FX	1/8"	50	0 - 6
PG50-10-BE-FX	1/8"	50	0 - 10
PG50-16-BE-FX	1/8"	50	0 - 16
PG50-20-BE-FX	1/8"	50	0 - 20
PG63-0/-1-BE-FX	1/4"	63	-1 - 0
PG63-02-BE-FX	1/4"	63	0 - 2
PG63-06-BE-FX	1/4"	63	0 - 6
PG63-10-BE-FX	1/4"	63	0 - 10
PG63-16-BE-FX	1/4"	63	0 - 16
PG63-20-BE-FX	1/4"	63	0 - 20

Code	Threaded Size	Dia	Range Bar
PG100-0/-1-BE-FX	3/8"	100	-1 - 0
PG100-02-BE-FX	3/8"	100	0 - 2
PG100-06-BE-FX	3/8"	100	0 - 6
PG100-10-BE-FX	3/8"	100	0 - 10
PG100-16-BE-FX	3/8"	100	0 - 16
PG100-20-BE-FX	3/8"	100	0 - 20



## FLEXION™ ALL STAINLESS STEEL PROCESS GAUGE

### SPECIFICATIONS

<b>Pressure Limitation</b>	Constant Pressure 100%. Cyclic Pressure 90%. Over Pressure 130%
<b>Temperature</b>	-25°C to +60°C

#### Materials:

Case	Black Painted Steel
Window	Polycarbonate
Internal Parts	Brass, Bourdon tube
Mounting Threads	BSPT (unless otherwise stated)

### TECHNICAL DATA

#### Process Gauges

Stainless steel gauges for fluid and gaseous media, compatible to the wetted parts (SUS 316)

Ranges 100mm

Dial -1 to 10 Bar

Gauges are supplied dry, but have a fillable case

Suitable glycerine is available in single fill bottles

Dual Scale - Bar / p.s.i.

Protection ratings IP65

Accuracy EN 873-1 (1% of scale)

### BOTTOM ENTRY

Code	Threaded Size	Dia	Range Bar
PG100-SS-0/-1-BE-FX	1/2 BSPP	100	-1 - 0
PG100-SS-02-BE-FX	1/2 BSPP	100	0 - 2
PG100-SS-06-BE-FX	1/2 BSPP	100	0 - 6
PG100-SS-10-BE-FX	1/2 BSPP	100	0 - 10

### GLYCERINE BOTTLE

Code	Thread Size
GLY-BTL-100MM-FX	Single fill 100m