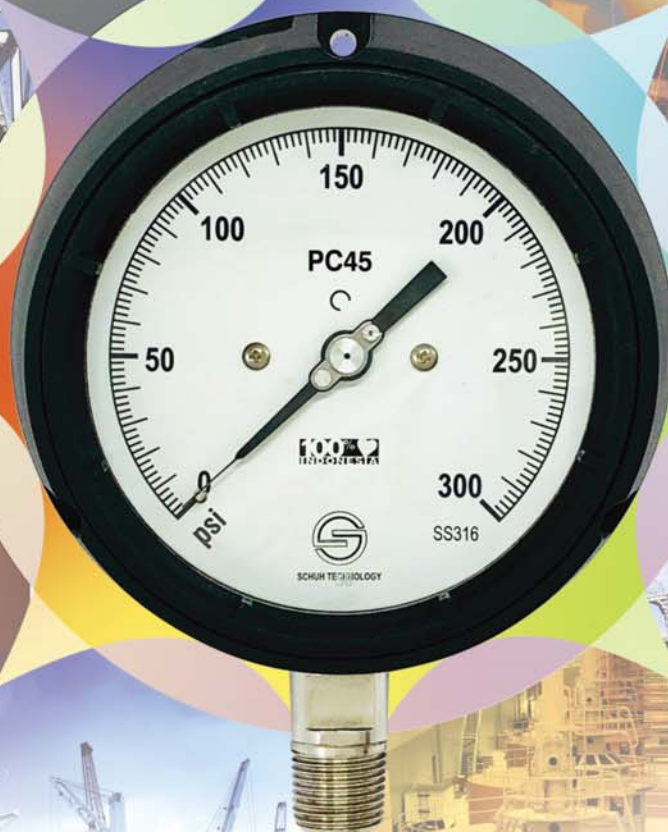




ACCURACY • WARRANTY • QUALITY

SCHUH TECHNOLOGY pertama kali masuk ke Indonesia pada tahun 1999 dengan pangsa pasar berbagai industri mulai dari pabrik kimia, petrokimia, perkapalan, pengolahan air limbah, makanan & minuman, bubur kertas, HVAC, Otomasi bangunan, hidrolik, pneumatik dan industri lainnya.

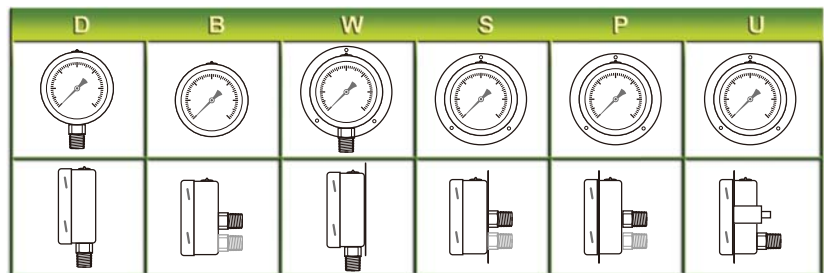
SCHUH TECHNOLOGY fokus pada instrumen pengukur tekanan dan suhu. Sejak saat itu, dengan keinginan tulus kami untuk menjadi yang terbaik, kami melanjutkan strategi sukses berkolaborasi dengan para pelanggan dan mitra kami untuk mengembangkan rangkaian produk dan layanan yang berkinerja tinggi, aman dan inovatif untuk semua bidang industri.

SCHUH TECHNOLOGY kini hadir di Indonesia untuk berpartisipasi dalam pembangunan negeri, bersertifikasi ISO9001:2015 dan TKDN (Tingkat Komponen Dalam Negeri) serta sebagai karya anak Bangsa Indonesia. Semua produk kami sepenuhnya diuji dan dikalibrasi untuk memastikan keandalan 100%. Sederhananya, kami membuat instalasi mudah dan kinerja dapat diandalkan tetapi tanpa kompromi dalam kesehatan dan keselamatan pemakai.

Main Feature

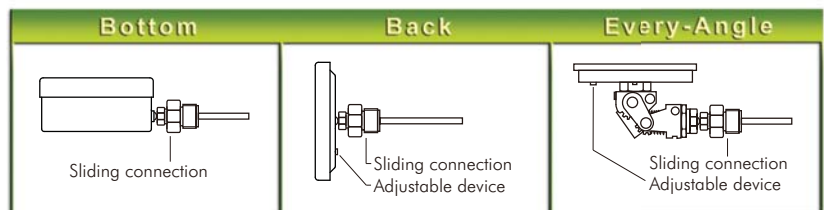
Pengukuran Tekanan

- Kualitas dan Garansi Premium
- Desain Knock-Down Flange (KDF)
- Standar unit ganda (Dual ranges)
- Bahan baku berkualitas dalam negeri
- Berbagai pilihan opsional produk
- Waktu pengiriman yang cepat
- Harga bersaing !



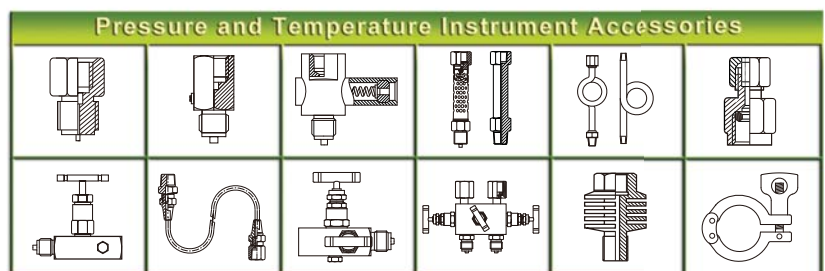
Pengukuran suhu

- Kualitas dan Garansi Premium
- Tipe 'Remote', kapiler dan langsung
- Standar unit skala ganda dalam °C & °F
- Berbagai diameter sensor 6 hingga 12 mm
- Standar perlindungan lapis stainless kapiler
- Waktu pengiriman yang cepat
- Harga bersaing !



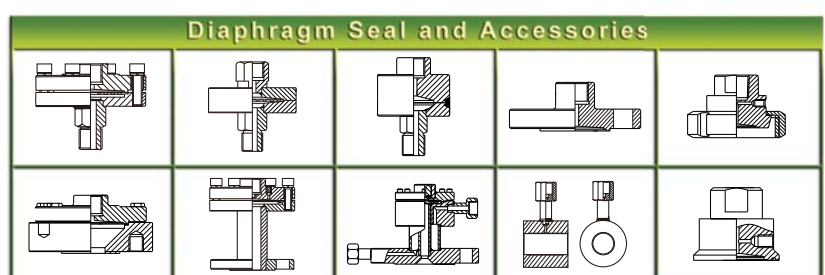
Aksesori Instrumen

- Kualitas dan Garansi Premium
- Untuk isolasi, sistem pendingin, dll
- Ukuran drat 1/4" - 1" BSP atau NPT
- Standar flange ke ANSI, DIN, JIS, dll
- Waktu pengiriman yang cepat
- Spesifikasi khusus sesuai kebutuhan
- Harga bersaing !



Diaphragm Seal

- Kualitas dan Garansi Premium
- Berulir dari NPT atau BSP 1/4" ke 1"
- Standar flange ke ANSI, DIN, JIS, dll
- Pilihan aplikasi suhu yang berbeda
- Berkisar dari 10 mbar hingga 1000 bar
- Desain khusus untuk aplikasi spesifik
- Harga bersaing !





VISI

Menjadi produk unggulan yang memberikan manfaat bagi pengembangan produk lokal dalam pangsa pasar di Indonesia dengan mengutamakan Kualitas, Garansi dan Pelayanan purna jual ke setiap pelanggan.

MISI

1. Memaksimalkan pemakaian bahan baku dalam negeri
2. Memaksimalkan loka-karya untuk memajukan produsen lokal
3. Membuat produk produk yang berPresisi dan Berkualitas Tinggi
4. Selalu meningkatkan standar produk dan pelayanan yang sudah ada
5. Menjalin hubungan kerjasama yang baik dengan para pelanggan

NILAI

1. Integritas
Kejujuran, tanggung jawab dan konsisten untuk mencapai tujuan Perusahaan.
2. Komitmen
Mampu memenuhi kesepakatan dan janji dengan tanggungjawab.
3. Kualitas
Memenuhi semua standard untuk mencapai kualitas terbaik.
4. Visioner
Selalu berinovasi dan mempersiapkan perusahaan sampai jauh ke depan.



“ RASAKAN TINGKAT PRESISI TERBAIK, DUKUNGAN DAN PELAYANAN”



KUALITAS

Over pressure test
Hydro static test
Fatigue test
Leak test



LAYANAN

Training produk
Garansi komponen
Desain khusus
Stok terbesar



DUKUNGAN

Harga bersaing
Pengiriman cepat
Dukungan teknis
Cakupan Nasional



TEKNOLOGI KAMI



DN Size
1.5" - 10"

Desain diameter casing dari 1½" hingga 10". Berbagai bahan dari SS304, SS316, Polypropylene dan bahan Phenolic.



DCS Sizes
DN25-DN75

Berbagai diameter Diafragma ukuran dari 40 hingga 97 mm. Tekanan dari 0..1 hingga 600 bar Tekanan tertinggi di kelasnya.



Wide Range
Flange Sizes

Berbagai pilihan ukuran dan standar flensa sesuai DIN EN1092.1, ASME B16.5, JIS B2220 atau standar lain yang tersedia dalam permintaan.



Diaphragm P
up to 600 bar

Dengan bahan pilihan, diafragma bisa diterapkan hingga 600 bar, tekanan tertinggi di kelasnya.



PTFE Coat
& Lining

Variasi pelapisan dan lapisan PTFE, ETFE untuk bagian diafragma



Double laser
weld diaphragm

Pengelasan garis ganda laser diafragma untuk memberikan kisaran tekanan tinggi dan pengukuran akurat.



SCHUH TECHNOLOGY®
Accuracy, Warranty and Quality

*“Persembahkan terbaik karya anak bangsa
dengan bahan baku terbaik Indonesia”*



Proses pengetesan stabilitas



Proses pengelasan laser



Tenaga ahli bersertifikasi Migas



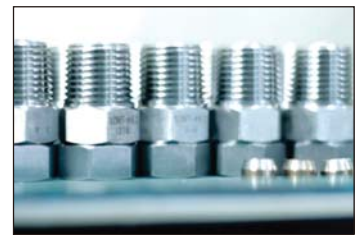
Proses pembubutan konektor



Phenolic Injection moulding



Bahan baku berkualitas Indonesia



Hasil komponen berpresisi tinggi

“Penggunaan bahan baku pilihan menciptakan produk terbaik”

Fasilitas & Laboratorium

Untuk mendukung kelancaran produksi kami menjadi yang terbaik, kami menggunakan teknologi mesin yang canggih dan terkini. Kami juga memiliki laboratorium kalibrasi dengan peralatan yang lengkap untuk selalu melakukan riset & pengembangan teknologi di masa depan.



Lingkungan & keamanan

Kami sangat peduli kepada lingkungan. Kami selalu melakukan uji coba semua produk kami dengan memperhatikan keamanan dan kenyamanan lingkungan dan kesehatan. Dengan keberhasilan kami di dalam konsistensi dalam pekerjaan telah membawa PT. 3S International meraih sertifikat ISO9001:2015





PC45 Series

- 4½" Safety Pressure Gauge
- Accuracy Class 0.5 of span
- Phenolic case, side filling
- Baffle wall, Blow-Out-Back
- Stainless steel 316 wetted part
- Design pressure up to 1000 bar
- Micrometer adjustment pointer
- Laminated safety glass
- Wide options selection

Page **7**



PS45 Series

- 4½" Safety Pressure Gauge
- Accuracy Class 0.5 of span
- Phenolic case, center filling
- Baffle wall, Blow-Out-Back
- Stainless steel 316 wetted part
- Design pressure up to 1000 bar
- Micrometer adjustment pointer
- Laminated safety glass
- Wide options selection

Page **7**



PX45 Series

- 4½" All Stainless steel gauge
- Accuracy Class 0.5 of span
- Solid front style casing
- Safety Blow-Out-Back (BOB)
- Stainless steel 316 wetted part
- Design pressure up to 1000 bar
- Micrometer adjustment pointer
- Laminating safety glass
- Wide options selection

Page **9**



PX Series

- 2", 2½", 4", 6" All SS gauge
- Accuracy Class 1.0 (4" & 6")
- DIN style stainless case design
- Safety Blow-Out-Back (BOB)
- Stainless steel 316 wetted part
- Design pressure up to 1000 bar
- Micrometer adjustment pointer
- Laminating safety glass
- Wide options selection

Page **11**



TG Series

- 4", 5", 6" Bimetal thermometer
- Accuracy Class 1.0 (Back & Angle)
- Accuracy Class 1.6 (Everyangle)
- DIN style stainless case design
- Stainless steel 316 wetted part
- Sliding connection standard
- Design pressure up to 600°C
- Micrometer adjuster on back case
- Wide options selection

Page **13**



TW Series

- Tapered, straight or stepped
- Flange standard ASME, DIN, JIS
- Solid bar stock stainless steel
- Full penetration flange system
- ASME PTC19.3 calculation
- Various sizes flange rating
- Various choices of materials
- Custom design available !

Page **15**

Klien kami



PT WIJAYA KARYA (Persero) Tbk

“Sebagai produk karya anak bangsa, kami memberikan apresiasi tertinggi kepada para pelanggan yang telah memberikan kepercayaan kepada kami”





PS/PC Series

Safety Pattern Case Pressure Gauge



Features

- Accuracy Class 0.5
- Chemical & petroleum processing industries
- Phenolic case construction
- Fully safety Blow Out Back design
- Stainless steel wetted parts structure
- Over pressure up to 30% of Full Scale
- Meet Class ANSI B40.1 or EN837-1
- Excellent vibration resist with liquid filling
- Design scale ranges up to 1000 bar



Application

PS-PC is an Oil & Gas standard 4.5" safety pressure gauge for extreme corrosive and severe environment with Safety pattern design (Solid front/Baffle front) and stainless steel wetted part. Fillable case and built-in Restrictor screw (Throttle screw) on connection are design to be used in vibration and pulsation area. Commonly use in many industries such as Oil & Gas, mining, petrochemical, pulp&paper, X tree, etc.



Technical Specification

- | | |
|---|--|
| • Nominal Size
130 mm / 4½" | • Temperature Limit
Ambient temp. -30°..90°C (Dry)
-7° ..70°C (Glycerine)
-30°..70°C (Silicone) |
| • Accuracy Class
Class 0.5 | • Process temp. -30°..100°C (Dry)
-7° ..70°C (Glycerine)
-30°.. 90°C (Silicone) |
| • Ingress Protection
IP 65 (Weather tight) | • Temperature Error
Additional error when pressure element temperature deviates from reference temperature +20°C (+68°F) be ±0.4% / 10°C (50°F) rising or falling |
| • Connection Size
G½ or ½ NPT | • Over Pressure Limit
130% of F.S. P ≤ 100 bar
115% of F.S. P > 100 bar |
| • Scale Range
Pressure 0.. 1000 bar
Vacuum -1 bar.. 0
Compound -1.. 24 bar | • Dial Graduation
Black graduation on white for single range
Black and red graduation on white for dual ranges |
| • Tube Element Shape
P <100 bar in C tube
P ≥100 bar in helicoil | |
| • Filling
Dry or liquid filled | |

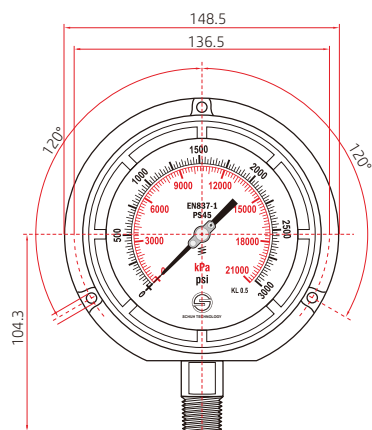


Material

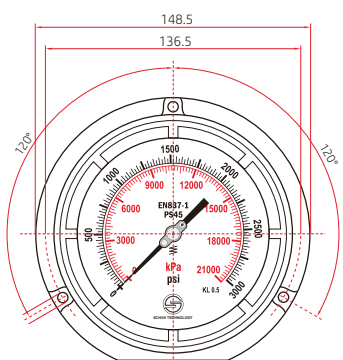
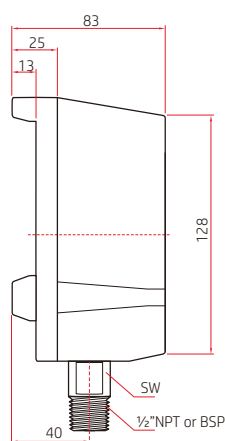
- Casing and Bezel Ring
Phenolic (PS45) - Center filling
Phenolic (PC45) - Side case filling
- Bezel and Blow out back plate
Polypropylene
- Sensing Element & Connection
Stainless steel 316L
- Window
Safety laminated glass
- Window gasket
Industrial rubber seal or PTFE
- Pointer
Black aluminum, adjustable
- Dial Plate
Aluminum alloy



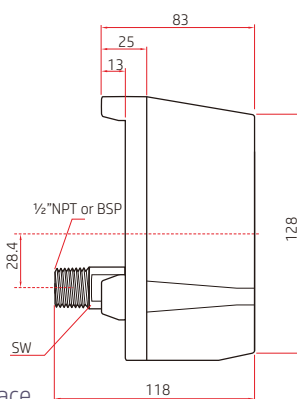
Technical Drawing



W - Bottom connection, back flange / Wall



S - Back connection, back flange / Surface



Ordering Code

Model ^①<Pressure range> ^②**Mounting** ^③- ^④**Connection** ^⑤- ^⑥**Filling** ***Option**

①	Dial
PS45	Phenolic case, center filling case
PC45	Phenolic case, side filling case

③	Mounting
W	Bottom conn., back flange / Wall
S	Back conn., back flange / Surface

④	Connection Size
G2	1/2" BSP
N2	1/2" NPT

⑤	Filling
D	Dry
G	Glycerine filled
S	Silicone oil filled

⑥	Option
90	90° Side mounting
CD	Custom dial layout
SU	Special unit range
O2	Oxygen service cleaning
OC	Other connection thread

② Dual ranges			Single range		
Bar	&	Psi	Bar or kg/cm2	Psi	kPa
-1..0	-30"Hg..	0	-1..0	-30"Hg.. 0	-100.. 0
-1..0.6	-30"Hg..	8	-1..0.6	-30"Hg.. 10	-100.. 60
-1..1.5	-30"Hg..	20	-1..1.5	-30"Hg.. 15	-100.. 150
-1..3	-30"Hg..	40	-1..3	-30"Hg.. 30	-100.. 300
-1..5	-30"Hg..	70	-1..5	-30"Hg.. 60	-100.. 500
-1..9	-30"Hg..	130	-1..9	-30"Hg..150	-100.. 900
-1..15	-30"Hg..	200	-1..15	-30"Hg..200	-100..1500
-1..24	-30"Hg..	350	-1..24	-30"Hg..300	-100..2400
0..1	0..15		0..1	0..15	0..100
0..1.6	0..23		0..1.6	0..20	0..160
0..2.5	0..35		0..2.5	0..30	0..250
0..4	0..60		0..4	0..60	0..400
0..6	0..85		0..6		0..600
0..7	0..100		0..7	0..100	0..700
0..10	0..150		0..10	0..150	0..1000
0..16	0..230		0..16	0..200	0..1600
0..25	0..350		0..25	0..300	0..2500
0..40	0..600		0..40	0..600	0..4000
0..60	0..850		0..60		0..6000
0..70	0..1000		0..70	0..1000	0..7000
0..100	0..1500		0..100	0..1500	0..10000
0..160	0..2300		0..160	0..2000	0..16000
0..250	0..3500		0..250	0..3000	0..25000
0..400	0..6000		0..400	0..6000	0..40000
0..600	0..8500		0..600		0..60000
0..700	0..10000		0..700	0..10000	0..70000
0..1000	0..15000		0..1000	0..15000	0..100000



PX45 Series



Premium All Stainless Steel 316 Pressure Gauge



Features

- Standard Accuracy Class 0.5
- Wide range applications
- All Stainless steel construction
- Safety Blow-Out-Back (BOB)
- Bayonet lock case design
- Over pressure 130% of Full Scale
- Restrictor screw standard
- Excellent vibration resist with liquid filling
- Design scale ranges up to 1000 bar



Application

PX45 Series is a premium all stainless steel pressure gauge with stainless steel construction, liquid fillable and with various options used in extreme corrosive and severe environment. This Series can be incorporate with most accessories such as Siphon, Diaphragm seals, Dampeners, etc.. to further extend the function. Commonly uses in Process industries, Steel mills, Power plants, Mining, Pulp and paper, Water and sewage, Petrochemicals, etc.



Technical Specification

- | | |
|---|--|
| • Nominal Size
4½" | • Filling
Dry or Liquid filled |
| • Accuracy Class
Class 0.5 | • Temperature Limit
Ambient temp. -30°..90°C (Dry)
-7° ..70°C (Glycerine)
-30°..70°C (Silicone) |
| • Ingress Protection
IP 65 (Weather tight) | Process temp. -30°..100°C (Dry)
-7° ..70°C (Glycerine)
-30°.. 90°C (Silicone) |
| • Connection Size
G½ or NPT | • Temperature Error
Additional error when pressure element temperature deviates from reference temperature +20°C (+68°F) be ±0.4% / 10°C (50°F) rising or falling |
| • Scale Range
Pressure 0.. 1000 bar
Vacuum -1 bar.. 0
Compound -1.. 24 bar | • Over Pressure Limit
130% of F.S. P ≤ 100 bar
115% of F.S. P > 100 bar |
| • Tube Element Shape
P < 100 bar in C tube
P ≥ 100 bar in helicoil | • Dial Graduation
Black graduation on white for single range
Black and red graduation on white for dual ranges |

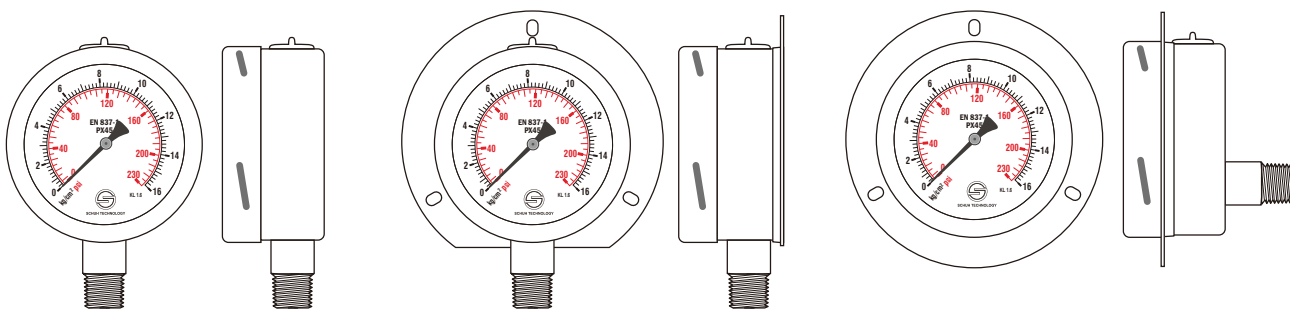


Material

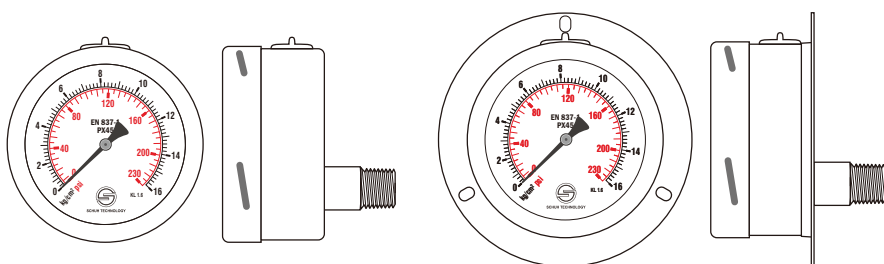
- Casing and Bezel Ring
Stainless steel 316
- Sensing Element
Stainless steel 316
- Connection
Stainless steel 316
- Window
Safety glass
- Window gasket
Industrial rubber seal
- Pointer
Black painted aluminum
Adjustable knob
- Dial Plate
Aluminum alloy



Technical Drawing



D - Bottom / Direct mount W - Bottom mount, back flange / Wall P - Back mount, front flange / Panel



B - Back mounting S - Back mount, back flange / Surface



Ordering Code

PX ^①<Pressure range> ^②Mounting ^③- ^④Connection ^⑤- ^⑥Filling *Option ^⑥

①	Dial Size
45	4 1/2"

③	Mounting
D	Bottom / Direct mount
B	Back mounting
W	Bottom mount, back flange / Wall
S	Back mount, back flange / Surface
P	Back mount, front flange / Panel

④	Connection Size
G2	1/2"BSP
N2	1/2"NPT

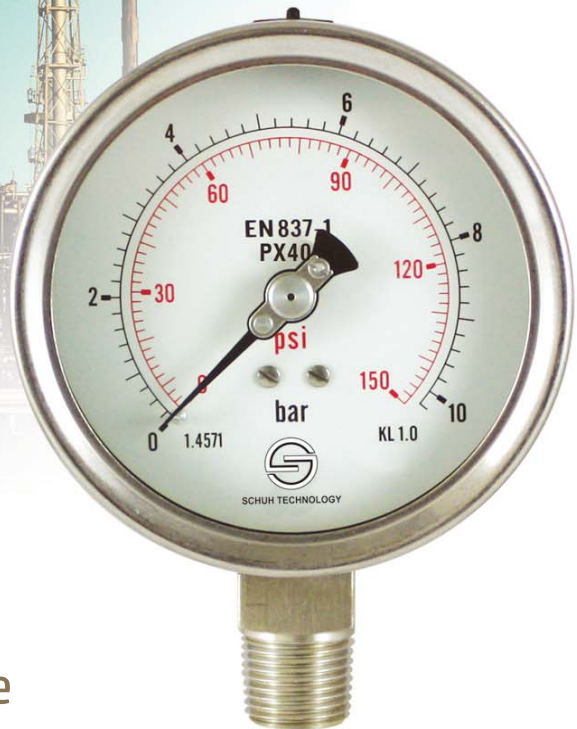
⑤	Filling
D	Dry
G	Glycerine filled
S	Silicone oil filled

⑥	Option
CD	Custom dial layout
SU	Special unit range
O2	Oxygen service cleaning
OC	Other connection thread

② Dual ranges			Single range		
Bar	& Psi		Bar or kg/cm2	Psi	kPa
-1.. 0	-30"Hg.. 0	0	-1.. 0	-30"Hg.. 0	-100.. 0
-1.. 0.6	-30"Hg.. 8	8	-1.. 0.6	-30"Hg.. 10	-100.. 60
-1.. 1.5	-30"Hg.. 20	20	-1.. 1.5	-30"Hg.. 15	-100.. 150
-1.. 3	-30"Hg.. 40	40	-1.. 3	-30"Hg.. 30	-100.. 300
-1.. 5	-30"Hg.. 70	70	-1.. 5	-30"Hg.. 60	-100.. 500
-1.. 9	-30"Hg.. 130	130	-1.. 9	-30"Hg..150	-100.. 900
-1.. 15	-30"Hg.. 200	200	-1.. 15	-30"Hg.200	-100..1500
-1.. 24	-30"Hg.. 350	350	-1.. 24	-30"Hg.300	-100.2400
0.. 1	0.. 15	15	0.. 1	0.. 15	0.. 100
0.. 1.6	0.. 23	23	0.. 1.6	0.. 20	0.. 160
0.. 2.5	0.. 35	35	0.. 2.5	0.. 30	0.. 250
0.. 4	0.. 60	60	0.. 4	0.. 60	0.. 400
0.. 6	0.. 85	85	0.. 6		0.. 600
0.. 7	0.. 100	100	0.. 7	0.. 100	0.. 700
0.. 10	0.. 150	150	0.. 10	0.. 150	0.. 1000
0.. 16	0.. 230	230	0.. 16	0.. 200	0.. 1600
0.. 25	0.. 350	350	0.. 25	0.. 300	0.. 2500
0.. 40	0.. 600	600	0.. 40	0.. 600	0.. 4000
0.. 60	0.. 850	850	0.. 60		0.. 6000
0.. 70	0.. 1000	1000	0.. 70	0.. 1000	0.. 7000
0.. 100	0.. 1500	1500	0.. 100	0.. 1500	0.. 10000
0.. 160	0.. 2300	2300	0.. 160	0.. 2000	0.. 16000
0.. 250	0.. 3500	3500	0.. 250	0.. 3000	0.. 25000
0.. 400	0.. 6000	6000	0.. 400	0.. 6000	0.. 40000
0.. 600	0.. 8500	8500	0.. 600		0.. 60000
0.. 700	0.. 10000	10000	0.. 700	0.. 10000	0.. 70000
0.. 1000	0.. 15000	15000	0.. 1000	0.. 15000	0.. 100000

PX Series

All Stainless steel Pressure Gauge



Features

- Standard Accuracy Class 1.0
- Wide range applications
- All Stainless steel construction
- Knock-down system back and front flange
- Bayonet lock case design
- Over pressure up to 30% of Full Scale
- Restrictor screw standard
- Excellent vibration resist with liquid filling
- Design scale ranges up to 1000 bar



Application

PX Series is a premium design all stainless steel pressure gauge with stainless steel construction, liquid fillable and with various options used in extreme corrosive and severe environment. This Series can be incorporate with most accessories such as Siphon, Diaphragm seals, Dampeners, etc.. to further extend the function. Commonly uses in Process industries, Steel mills, Power plants, Mining, Pulp and paper, Water and sewage, Petrochemicals, etc.



Technical Specification

- | | |
|---|--|
| <ul style="list-style-type: none"> • Nominal Size
2", 2½", 4" and 6" • Accuracy Class
Class 1.0 (Class 1.6 - Ø<4") • Ingress Protection
IP 65 (Weather tight) • Connection Size
G¼ or NPT (Ø 2"~2½")
G½ or NPT (Ø 4"~ 6") • Scale Range
Pressure 0.. 1000 bar
Vacuum -1 bar.. 0
Compound -1.. 24 bar • Tube Element Shape
P < 100 bar in C tube
P ≥ 100 bar in helicoil | <ul style="list-style-type: none"> • Filling
Dry or liquid filled • Temperature Limit
Ambient temp. -30°..90°C (Dry)
-7° ..70°C (Glycerine)
-30°..70°C (Silicone)
Process temp. -30°..100°C (Dry)
-7° ..70°C (Glycerine)
-30°.. 90°C (Silicone) • Temperature Error
Additional error when pressure element temperature deviates from reference temperature +20°C (+68°F) be ±0.4% / 10°C (50°F) rising or falling • Over Pressure Limit
130% of F.S. P ≤ 100 bar
115% of F.S. P > 100 bar • Dial Graduation
Black graduation on white for single range
Black and red graduation on white for dual ranges |
|---|--|

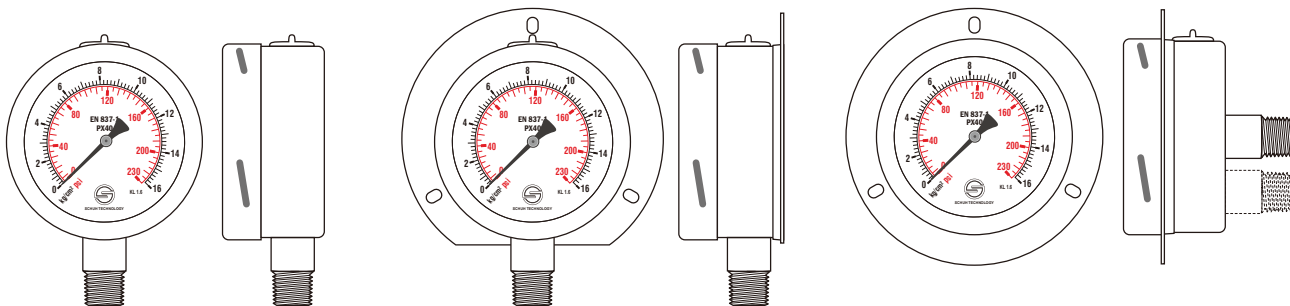


Material

- Casing and Bezel Ring
Stainless steel 316
- Sensing Element & Connection
Stainless steel 316
- Window
Toughened or safety glass
- Window gasket
Industrial rubber seal
- Pointer
Black painted aluminum
Adjustable for Ø ≥ 100 mm
- Dial Plate
Aluminum alloy



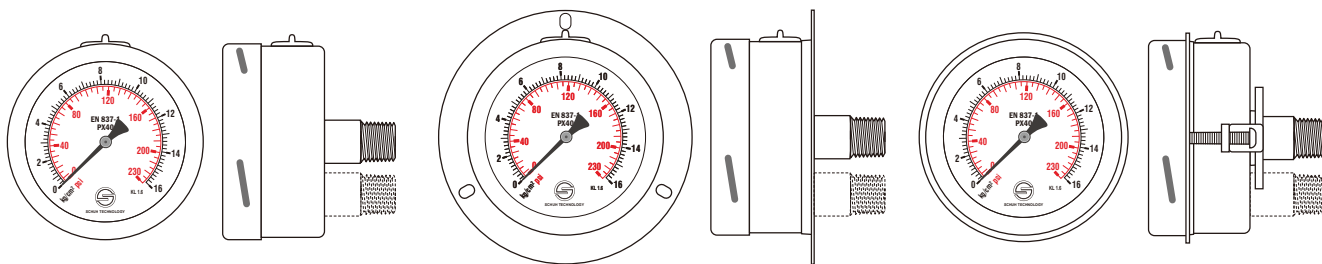
Technical Drawing



D - Bottom / Direct mount

W - Bottom mount, back flange / Wall

P - Back mount, front flange / Panel



B - Back mounting

S - Back mount, back flange / Surface

U - Back mount with U-clamp



Ordering Code

PX^① <Pressure range>^② Mounting^③ - Connection^④ - Filling^⑤ *Option^⑥

①	Dial Size
20	2" or 50 mm
25	2½" or 63 mm
40	4" or 100 mm
60	6" or 150 mm

③	Mounting
D	Bottom / Direct mount
B	Back mounting
W	Bottom mount, back flange / Wall
S	Back mount, back flange / Surface
P	Back mount, front flange / Panel
U	Back mount with U-clamp

④	Connection Size
G4	¼"BSP (Ø2" .. 2½")
N4	¼"NPT (Ø2" .. 2½")
G2	½"BSP
N2	½"NPT

⑤	Filling
D	Dry
G	Glycerine filled
S	Silicone oil filled

⑥	Option
SG	Laminated Safety Glass
CD	Custom dial layout
SU	Special unit range
O2	Oxygen service cleaning
OC	Other connection thread
BB	Blow-out back case

② Dual ranges			Single range		
Bar	& Psi		Bar or kg/cm2	Psi	kPa
-1.. 0	-30"Hg.. 0	0	-1.. 0	-30"Hg.. 0	-100.. 0
-1.. 0.6	-30"Hg.. 8		-1.. 0.6	-30"Hg.. 10	-100.. 60
-1.. 1.5	-30"Hg.. 20		-1.. 1.5	-30"Hg.. 15	-100.. 150
-1.. 3	-30"Hg.. 40		-1.. 3	-30"Hg.. 30	-100.. 300
-1.. 5	-30"Hg.. 70		-1.. 5	-30"Hg.. 60	-100.. 500
-1.. 9	-30"Hg.. 130		-1.. 9	-30"Hg.. 150	-100.. 900
-1.. 15	-30"Hg.. 200		-1.. 15	-30"Hg.. 200	-100.. 1500
-1.. 24	-30"Hg.. 350		-1.. 24	-30"Hg.. 300	-100.. 2400
0.. 1	0.. 15		0.. 1	0.. 15	0.. 100
0.. 1.6	0.. 23		0.. 1.6	0.. 20	0.. 160
0.. 2.5	0.. 35		0.. 2.5	0.. 30	0.. 250
0.. 4	0.. 60		0.. 4	0.. 60	0.. 400
0.. 6	0.. 85		0.. 6		0.. 600
0.. 7	0.. 100		0.. 7	0.. 100	0.. 700
0.. 10	0.. 150		0.. 10	0.. 150	0.. 1000
0.. 16	0.. 230		0.. 16	0.. 200	0.. 1600
0.. 25	0.. 350		0.. 25	0.. 300	0.. 2500
0.. 40	0.. 600		0.. 40	0.. 600	0.. 4000
0.. 60	0.. 850		0.. 60		0.. 6000
0.. 70	0.. 1000		0.. 70	0.. 1000	0.. 7000
0.. 100	0.. 1500		0.. 100	0.. 1500	0.. 10000
0.. 160	0.. 2300		0.. 160	0.. 2000	0.. 16000
0.. 250	0.. 3500		0.. 250	0.. 3000	0.. 25000
0.. 400	0.. 6000		0.. 400	0.. 6000	0.. 40000
0.. 600	0.. 8500		0.. 600		0.. 60000
0.. 700	0.. 10000		0.. 700	0.. 10000	0.. 70000
0.. 1000	0.. 15000		0.. 1000	0.. 15000	0.. 100000



TG Series

Fillable Stainless Steel Bimetal Thermometer



Features

- Bottom, back and Everyangle mounting
- DIN style case and bezel design
- Accuracy Class 1.6, *Class 1.0
- Quick response, high stability and accuracy
- External micro adjustment device at back case
- All stainless steel material construction
- Weather tight with IP65 protection
- Temperature range up to 600°C (1100°F)
- Sliding connection standard
- Standard dial dual unit ranges (°F & °C)
- Sensor length up to 1000 mm
- Sensor Ø 6 mm (standard), 6.3, 8 or 10 mm



Application

TG Series is a special design bimetal thermometer with high quality bimetal. The case design with filling function knob and full Stainless steel for extreme vibration and corrosive application. A micrometer adjustment knob located at back case for easy field calibration setting. Applicable for most widely used in industrial, power plant, oil&gas, petrochemical, cement, pulp and paper and processing unit where vibration and corrosion is concern.



Technical Specification

- | | |
|--|---|
| • Nominal Size
2½", 3", 4", 5" or 6" | • Filling
Liquid fillable, at back case |
| • Accuracy Class
Class 1.0 to EN 13190 | • Operating Temperature
Ambient temperature -50°.. +120°C |
| • Ingress Protection
IP 65 (Weather tight) | • Maximum Pressure
Maximum 25 Bar on stem |
| • Connection type
Sliding connection standard
Conn. size ½"NPT, G½" or NPT | • Bezel Ring Type
Hermetically sealed fastening type
External calibration device on back case |
| • Temperature Scale Range
-40°..+600°C (-40°..+1100°F) | • Dial Graduation
Standard in dual ranges °F and °C
Optional Custom dial design |
| • Sensing Element
Coiled bimetal sensing | • Sensor Diameter
Standard 6 mm
*Optional 6.3, 8 and 10 mm |

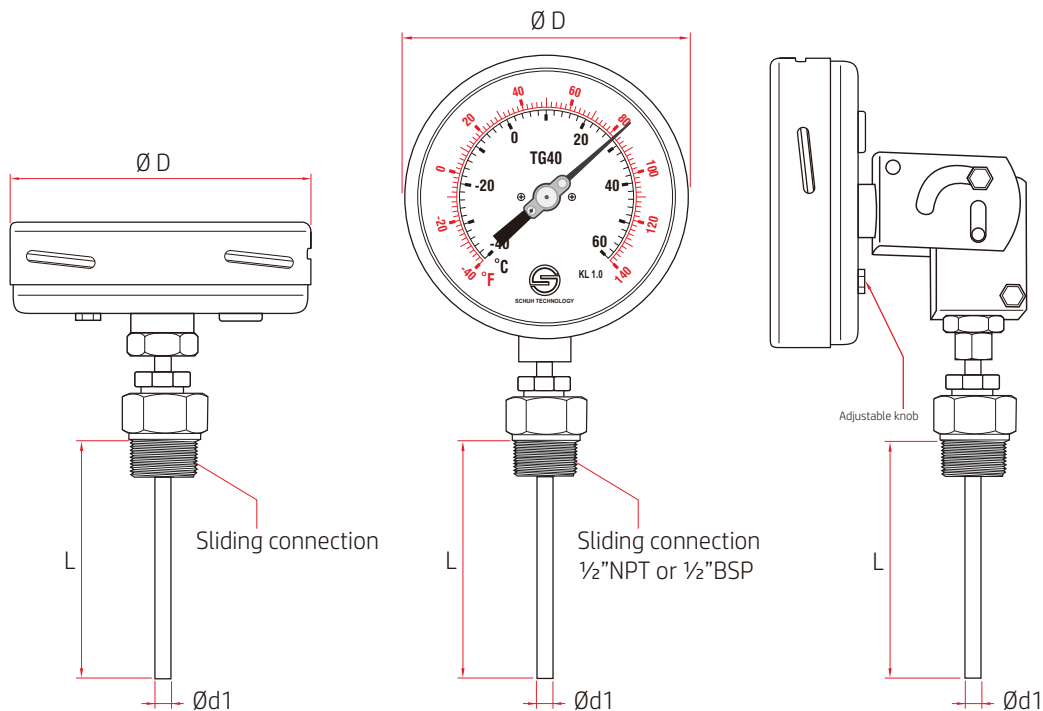


Material

- Casing and Bezel Ring
SS 304 or SS 316 hermetically sealed
- Probe / Bulb Sensor
Stainless steel 316
- Connection
Stainless steel 316, sliding connection
- Window
Tempered glass or Safety glass
- Pointer
Black painted aluminium
- Dial Plate
Aluminium alloy



Technical Dimension



Ordering Code

TG ^①<Temperature range> ^②Mounting ^③Stem L ^④Conn Size ^⑤Filling ^⑥*Option ^⑦

①	Model and mount
25	63 mm / 2½"
30	75 mm / 3"
40	100 mm / 4"
50	125 mm / 5"
60	150 mm / 6"

② Temperature Range (Dual ranges standard)	
°C	°F
-40° .. +60°	-40° .. +140°
-40° .. +80°	-40° .. +180°
0.. 60°	+32° .. +140°
0.. 100°	+32° .. +210°
0.. 120°	+32° .. +250°
0.. 150°	+32° .. +300°
0.. 200°	+32° .. +390°
0.. 300°	+32° .. +570°
0.. 400°	+32° .. +750°
0.. 500°	+32° .. +930°
0.. 600°	+32° .. +1100°

③	Mounting
D	Bottom connection
B	Center back connection
E	Everyangle connection

④	Stem Length in Inch (mm)
	Sensor length 2.5" (60mm) .. 40" (1000 mm)

⑤	Connection Size
N2	½"NPT (Standard)
G2	½"BSP
G4	¼"BSP
N4	¼"NPT
G3	¾"BSP
N3	¾"NPT
G1	1"BSP
M2	M20x1.5

⑥	Filling
D	Dry
G	Glycerine filled
S	Silicone oil filled

⑦	Option
CD	Custom dial layout
FC	Fixed connection
63	6.3 mm stem diameter
08	8 mm stem diameter
10	10 mm stem diameter
CS	Case material SS 316

TW Series



Stainless steel Flanged Thermowell

- Flanged Thermowell
- Tapered, straight or stepped shank
- Flange standard as per ASME B16.5, DIN 2501 or JIS
- Solid bar stock stainless steel construction
- Full penetration flanged thermowell welding
- Testing and certifications as per ASME PTC19.3
- Widely used in oil&gas, chemical, food&beverages, etc

TW^① <Flanged>^② Material^③ Lagging^④ Insertion 'U'^⑤ Bore Diameter^⑥ Instrument Conn^⑦ *Option^⑧



Ordering Code

①	Thermowell Type
10	Straight shank type
20	Tapered shank type
30	Stepped shank type

② Flanged as per ASME B16.5		
Size	Rating	Facing
1"	150	Raise Face (RF)
1½"	300	Flat Face (FF)
2"	600	Ring Type Joint (RTJ)
	900	
	1500	
	2500	

Other standard equivalent to DIN2501 or JIS

③	Thermowell Type
SS	304 Stainless steel
ST	316 Stainless steel
SL	316L Stainless steel

Other material available on request

④	Lagging
WL	Without lagging (Standard)
L1	With lagging 2", if 'U' length <3"
L2	With lagging 3", if 'U' length >3"
LX	With lagging specific length

⑤	'U' Insertion Length
02	2"
04	4"
07	7"
10	10"
13	13"
16	16"
22	22"
XX	Other to specify

⑥	Bore Diameter
2	0.260" (Standard for 0.250" sensor)
3	0.385" (For 0.375" sensor)

⑦	Instrument Connection
N2	½"NPT Female
G2	½"BSP Female

⑧	*OPTION
LM	Laser marking on well (Standard)
TW	ASME 19.3 TW Calculation
NT	Stainless steel name tag with chain
PM	Positive Material Identification (PMI)



THERMOWELL GENERAL MATERIAL SELECTION GUIDE

Chemical	Temp. °C	Conc. %	Recommended Material
Acetic Acid	100	ALL	Monel
Acetic Anhydride	150		Nickel
Acetone	100	ALL	304SS
Acetylene	205		304SS
Alcohols	100	ALL	304SS
Alum (Potassium/Sodium)	150	ALL	Hastelloy-C
Aluminum Chloride	100	ALL	Hastelloy-B
Aluminum Sulfate	100	ALL	316SS
Ammonia, Dry	100	ALL	304SS, 316SS
Ammonium Hydroxide	100	ALL	304SS, 316SS
Ammonium Chloride	150	50%	Monel
Ammonium Nitrate	150	ALL	304SS
Ammonium Sulfate	100	ALL	316SS
Amyl Acetate	150	ALL	304SS
Aniline	-4		Monel
Asphalt	122		304SS
Atmosphere (Industrial, Marine)			304SS
Barium Compounds		See Calcium	
Beer	22		304SS
Benzene (Benzol)	100		Steel
Benzoic Acid	100	ALL	316SS
Bleaching Powder	22	15%	Monel
Borax	100	ALL	Brass
Bordeaux Mixture	94		304SS
Boric Acid	204	ALL	316SS
Bromine	52	DRY	Monel
Butane	204	ALL	Steel
Butyl Alcohol		See Alcohols	
Butyric Acid	100		Hastelloy-C
Calcium Bisulphite	24	ALL	Hastelloy-C
Calcium Chloride	100	ALL	Hastelloy-C
Calcium Hydroxide	150	20%	Hastelloy-C
Calcium Hypochlorite		See Bleaching Powder	
Carbolic Acid		See Phenol	
Carbon Dioxide, Dry	426	ALL	Brass
Carbonated Water	100	ALL	304SS
Carbonated Beverages	100		304SS
Carbon Disulfide	93		304SS
Carbon Tetrachloride	52	ALL	Monel
Chlorine, Dry	38		Monel
Chlorine, Moist	38	ALL	Monel
Chloroacetic Acid	100	ALL	Monel
Chloroform, Dry	100		Monel
Chromic Acid	150	ALL	Hastelloy-C
Cider	150	ALL	304SS
Citric Acid	100	ALL	Hastelloy-C
Copper (10) Chloride	100	ALL	Hastelloy-C
Copper (10) Nitrate	150	ALL	316SS
Copper (10) Sulfate	150	ALL	316SS
Cu. Plating Solution (Cyanide)	54		304SS
Cu. Plating Solution (Acid)	24		304SS
Corn Oil	93		304SS
Creosote	93	ALL	304SS
Crude Oil	150		Monel
Ethyl Acetate		See Lacquer Thinner	
Ethyl Chloride, Dry	260		Steel
Ethanol		See Alcohols	
Ethylene Glycol (Uninhibited)	100	ALL	304SS
Ethylene Oxide	24		Steel
Fatty Acids	260	ALL	316SS
Ferric Chloride	24	ALL	Hastelloy-C
Ferric Sulfate	150	ALL	304SS
Formaldehyde	100	40%	316SS
Formic Acid	150	ALL	316SS
Freon	150		Steel
Fluorine, Anhydrous	38		304SS
Furfural	232		316SS
Gasoline	150		Steel
Glucose	150		304SS
Glue, ph 6-8	150	ALL	304SS
Glycerine	100	ALL	Brass
Hydrobromic Acid	100	ALL	Hastelloy-C
Hydrochloric Acid (37-38%)	107	ALL	Hastelloy-B
Hydrogen Chloride, Dry	260		304SS

Chemical	Temp. °C	Conc. %	Recommended Material
Hydrocyanic Acid	100	ALL	304SS
Hydrofluoric Acid	100	60%	Monel
Hydrogen Fluoride, Dry	80		Steel
Hydrofluosilicic Acid	100	40%	Monel
Hydrogen Peroxide	52	10-100%	304SS
Kerosene	150	ALL	Steel
Lacquers & Thinners	150	ALL	304SS
Lactic Acid	150	ALL	316SS
Lime	100	ALL	316SS
Linseed Oil	24		Steel
Magnesium Chloride	100	50%	Nickel
Magnesium Hydroxide	24	ALL	304SS
Magnesium Sulfate	100	40%	304SS
Mercuric Chloride	24	10%	Hastelloy-C
Mercury	371	100%	Steel
Methylene Chloride	100	ALL	304SS
Methyl Chloride, Dry	24		Steel
Milk, fresh or sour	82		304SS
Molasses		See Glucose	
Natural Gas	21		304SS
Nitric Acid	24	ALL	304SS
Nitric Acid	150	ALL	316SS
Oxygen	24	ALL	Steel
Oleic Acid		See Fatty Acids	
Oxalic Acid	100	ALL	Monel
Photographic Bleaching	38	ALL	304SS
Palmitic Acid		See Fatty Acids	
Phosphoric Acid	100	ALL	316SS
Phenol	100	ALL	316SS
Potassium Compounds		See Sodium Compound	
Propane	150		Steel
Rosin	371	100%	316SS
Sea Water	24		Monel
Soap & Detergents	100	ALL	304SS
Sodium Bicarbonate	100	20%	316SS
Sodium Bisulfite	100	20%	304SS
Sodium Bisulfate	100	20%	304SS
Sodium Carbonate	100	40%	316SS
Sodium Chloride	150	30%	Monel
Sodium Chromate	100	ALL	316SS
Salt or Brine		See Sodium Chloride	
Sodium Cyanide	100	ALL	304SS
Sodium Hydroxide	100	30%	316SS
Sodium Hypochlorite	24	10%	Hastelloy-C
Sodium Nitrate	100	40%	304SS
Sodium Nitrite	24	20%	316SS
Sodium Phosphate	100	10%	Steel
Sodium Silicate	100	10%	Steel
Sodium Sulfide	100	30%	316SS
Sodium Sulfite	100	10%	316SS
Sodium Sulfate	100	30%	304SS
Sodium Thiosulfate	100	ALL	304SS
Steam			304SS
Stearic Acid		See Fatty Acids	
Sugar Solution		See Glucose	
Sulfur	260		304SS
Sulfur Chloride	24	DRY	316SS
Sulfur Dioxide	260	DRY	316SS
Sulfur Trioxide	260	DRY	316SS
Sulfuric Acid	100	10%	316SS
Sulfuric Acid	100	10-90%	Hastelloy-B
Sulfuric Acid	100	90-100%	Hastelloy-B
Sulfuric Acid, Fuming	80		Hastelloy-C
Sulfurous Acid	24	20%	316SS
Titanium Tetrachloride	24	ALL	316SS
Tannic Acid	24	40%	Hastelloy-B
Toluene	24		Steel
Trichloroacetic Acid	24	ALL	Hastelloy-B
Trichloroethylene	150	DRY	Monel
Turpentine	24		316SS
Varnish	66		Steel
Zinc Chloride	100	ALL	Hastelloy-B
Zinc Sulfate	100	ALL	316SS

"Salah satu bukti nyata bakti dan bela negara

adalah dengan menggunakan produk dalam negeri"



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