

บริษัท โฟลว์ เอ็นจิเนียริ่ง แอนด์ เซอร์วิส จำกัด
Flow Engineering and Service Co.,Ltd.

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O-RING & KITS SET

- O-RING NBR
- O-RING VITON
- O-RING EPDM
- O-RING SILICONE
- O-RING NEOPRENE
- O-RING PTFE
- O-RING POLYURETANE
- O-RING KALREZ
- O-RING CHEMRAZ
- O-RING FEP ENCAPSULATED

QUAD RING

- QUAD RING NBR
- QUAD RING VITON
- QUAD RING EPDM
- QUAD RING SILICONE
- QUAD RING NEOPRENE
- QUAD RING PTFE
- QUAD RING POLYURETANE

BACKUP RING



- MATERIAL
- PTFE
- NBR
- VITON
- POM
- POLYURETANE

OILSEAL


GENERAL TYPE
TC, SC, TA, SA
TB, SB, VC, MG

HIGH PRESSURE TYPE
PS, BABSL, TCN, TCV

	PS	Stainless Steel -PTFE	2
	BABSL GBP	NBR-Metal	10
	TCN	NBR-Metal	10
	TCV	NBR-Metal	3


V-RING

GENERAL TYPE
VA, VS, VL, VE, RM, RME



Profile	A	S	L	E	RM	RME	AX	LX
min Ø mm	3	5	110	300	300	300	200	140
max Ø mm	∞	199	∞	∞	∞	∞	∞	∞

GAMMA SEAL

Gamma Seal	Profile	Material	Temperature [°C]	Speed [m/s]
RB		Galvanised Coated sheet steel + NBR 80Sh FPM 80Sh	-20 to +100	≤20
RB9		Galvanised Coated sheet steel + NBR 80Sh FPM 80Sh	-20 to +200	≤20

HYDRAULIC SEAL



จำหน่าย ไฮดรอลิกซีล HYDRALIC SEAL ซีลสำหรับงาน ไฮดรอลิก



PISTON SEALS



ROD SEALS



WIPER SEALS



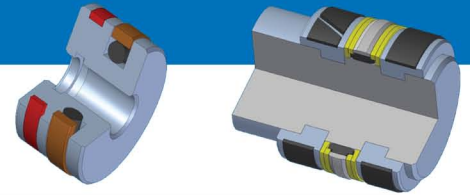
GUIDE RING



HYDRAULIC SEALS



PISTON SEALS

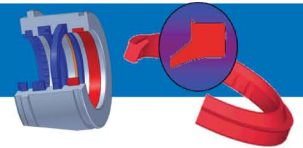


Piston Seals (Double Acting) ซีลลูกสูบ						
Design	Ref.	Material	Pressure (BAR)	Temp. (°C)	Speed (m/s)	Dim. mm. inch.
	KGD DAS	NBR-Polyester-POM	350	-30 +120	0.5	• •
	H-780	NBR-Polyester-POM	400	-30 +100	0.5	• •
	H-753	PU-NBR-POM	400	-30 +100	0.5	•
	TPM, SPS, TPL, TPS/G	NBR-Polyester-POM	350	-30 +120	0.5	• •
	MHM	NBR-Polyester-POM	350	-30 +120	0.5	•
	H-65	NBR - POM	200	-30 +120	0.5	•
	H-53	NBR-Polyester-POM	500	-30 +100	0.5	• •
	TDE	NBR+Fabric - POM	450	-30 +120	0.5	•
	DPW/L	NBR+Fabric - POM	450	-30 +120	0.5	• •
	H-58	NBR+Fabric - POM	450	-30 +100	0.5	• •
	DPW	NBR+Fabric - POM	450	-30 +120	0.5	•
	SM	NBR+Fabric - POM	400	-30 +120	0.8	•
	PDE, DSM	NBR+Fabric - POM	700	-30 +120	0.5	• •
	SP-55-211	PTFE+Bronze - O-ring	400	-40 +200	15	• •
	KR	PU - NBR	400	-35 +110	0.5	•
	GRC	PU - NBR	400	-35 +110	0.5	•
	H-754	PU - O-ring	350	-40 +110	1	•
	SP-11-8401	PTFE - O-ring	350	-40 +200	15	• •
	SPGW	PTFE+Bronze - NBR - PA	500	-40 +120	1.5	•
	RGU	NBR	140 (210)	-25 +100	1	•
	HSD	NBR	140 (210)	-10 +80	1 (0.5)	•
	S-5000, PS1500	PTFE+Glass, PU - O-ring	350	-40 +110	1	•
	R-5100, PS1850	PTFE+Glass, PU - NBR	350	-40 +110	1	•
	H-755	PU - NBR	350	-40 +110	1	•
	TP	NBR - POM	350	-30 +120	1	•
	PSM	PU - NBR	350	-50 +105	0.5	•
	PSC, PSP	Fluorotrel - O-ring	350	-50 +120	0.5	•
	PSU	PU Composite	350	-50 +105	0.5	•

Piston Seals (Single Acting) ซีลลูกสูบ						
Design	Ref.	Material	Pressure (BAR)	Temp. (°C)	Speed (m/s)	Dim. mm. inch.
	GT-3	NBR+Fabric	700	-30 +100	0.5	•
	H-51	NBR+Fabric	700	-30 +100	0.5	•
	RSE, TTE, UHP, UNP	PU	400	-40 +95	0.6	•
	C2	NBR	160	-25 +100	0.5	• •
	GPY	NBR	175 (250)	-30 +100	1 (0.5)	•
	RGY	NBR	140 (210)	-25 +100	1 (0.5)	•
	SGY	NBR	210	-45 +100	1 (0.5)	•
	OHM	NBR-Nylon	250	-30 +100	0.5	•
	KDA	PU-Acetal	500	-40 +100	0.5	•
	SP-55-271, DK25	PTFE+Bronze - O-ring	400	-40 +200	15	• •
	SP-11-2000, DK19	PTFE-Stainless Spring	450	-150 +225	15	• •
	SW+RR	NBR+Fabric - POM	450	-30 +120	0.5	•

Piston & Rod Seals (ซีลลูกสูบ / ซีลแกน)						
Design	Ref.	Material	Pressure (BAR)	Temp. (°C)	Speed (m/s)	Dim. mm. inch.
	RSS, TTU	PU	400	-40 +95	0.6	•
	UPN	PU	400	-40 +95	0.6	•
	H-601	PU	400	-45 +110	1	• •
	UNS	PU	350 (700)	-25 +80	1	•
	UHS	PU	210 (450)	-25 +80	1	•
	MPS	Urethane	400	-40 +100	0.5	•
	SKY	NBR	140 (210)	-10 +80	1 (0.5)	•
	SKY-F	FPM	140 (210)	-5 +150	0.5	•
	KY	NBR	150 (300)	-10 +80	1 (0.5)	•
	USH	NBR	140 (210)	-25 +100	1	•
	USH-F	FPM	140 (210)	-10 +150	1	•
	EVUM	NBR	120	-30 +110	0.25	•
	V-Packing F	NBR+Fabric	400	-30 +120	0.5	• •
	POLYPAK	Molythane	350	-35 +95	0.5	•
	POLYSEAL	Lubrithane	350	-54 +93	0.5	•
	HDLV	HYTREL+ NYLON	400	-40 +100	0.5	•

HYDRAULIC SEALS



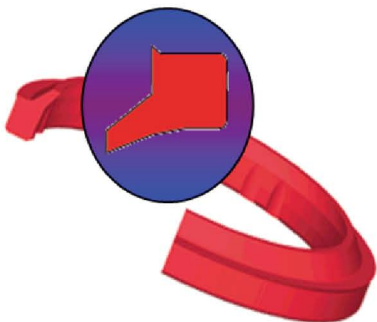
ROD SEALS

Rod Seals (ซิลินเดอร์)						
Design	Ref.	Material	Pressure (BAR)	Temp. (°C)	Speed (m/s)	Dim. mm, inch.
	SP-55-171	PTFE+Bronze - O-ring	400	-40 +200	15	•
	HBV	PU + POM	350	-30 +100	1	•
	RS TTI	PU	400	-40 +95	0.6	•
	UHR	PU	400	-40 +95	0.6	•
	UNR	PU	400	-40 +95	0.6	•
	RS/L H-605 TTI/L	PU	400	-45 +110	1	•
	TS/L TTS/L SD	PU	400	-40 +95	0.6	•
	JAM	PU-NBR-PU	500	-30 +100	0.5	•
	H-621 BD	PU-NBR-POM	500	-35 +110	0.5	•
	TGO	NBR+Fabric	220	-30 +120	0.5	•
	SE	NBR+Fabric	220	-30 +120	0.5	• •
	SE/G	NBR+Fabric - POM	450	-30 +120	0.5	• •
	PSE	NBR+Fabric - POM	700	-30 +120	0.5	•
	DM	NBR+Fabric	250	-25 +80	2	•
	SP-11-2100 DS19	PTFE- Stainless Spring	450	-150 +225	15	• •
	C1	NBR	160	-35 +100	0.5	•
	GNY	NBR	175 (250)	-30 +100	1 (0.5)	•
	RNY	NBR	140 (210)	-25 +100	1 (0.5)	•
	SNY	NBR	210	-45 +100	0.5	•
	PS	NBR	140 (210)	-10 +80	0.5	•
	SP-55-111	PTFE+Bronze - O-ring	400	-40 +200	15	•
	SP-11-7401	PTFE - O-ring	350	-40 +200	15	•
	SAL	NBR+Fabric-PU	400	-30 +100	0.5	•
	TR	NBR-POM	350	-30 +110	1	•
	HLTS	PU	350	-50 +105	0.5	•

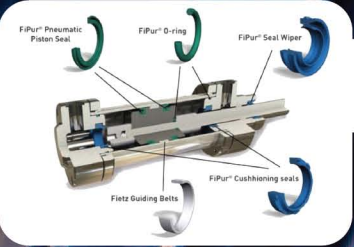


WIPER SEALS

Wipers (ซิลินเดอร์)						
Design	Ref.	Material	Temp. (°C)	Speed (m/s)	Dim. mm, inch.	
	A1	NBR	-35 +100	2	•	
	A1	PU	-35 +100	2	•	
	DA17 AD51	NBR	-30 +110	1	•	
	PW SA GHK	PU	-30 +80	1	•	
	PW/HH	PU	-40 +95	1	•	
	EDK	NBR	-30 +110	1	•	
	H-38	PU	-40 +120	4	•	
	GHW RCI	Dynathan	-30 +110	1	•	
	DH	PU	-25 +80	1	•	
	RSW AY H-839	PU	-35 +100	1	•	
	GPY PUS	PU	-30 +100	2	•	
	SDR	NBR	-25 +100	1	•	
	SDR-F	FPM	-5 +150	0.5	•	
	LBH	NBR	-25 +100	1	•	
	LBH-F	FPM	-10 +150	0.5	•	
	SCK	NBR	-45 +100	1	•	
	SP-55-581	PTFE+Bronze - O-ring	-40 +200	15	• •	
	SP-55-591	PTFE+Bronze - O-ring	-40 +200	15	• •	
	SP-55-791	PTFE+Bronze - O-ring	-40 +200	15	• •	
	CSWM CSW	Hytrel	-30 +120	1	• •	
	H-33	NBR	-30 +100	4	• •	
	D	PU	-35 +95	0.5	•	
	940	PU	-35 +95	0.5	•	
	H	PU	-35 +95	0.5	•	
	K	PU	-35 +95	0.5	•	
	EWS	PU	-30 +95	0.5	•	
	PWB	NBR	-30 +110	1	•	
	EVH	NBR	-30 +110	1	•	
	GA	NBR-Metal	-30 +120	1	•	
	ME-1	PU-Metal	-40 +80	0.5	•	
	DKI ME-3	PU-Metal	-40 +80	0.5	•	
	SCB	NBR-Metal	-40 +100	1	•	
	DKB	NBR-Metal	-20 +100	1	•	
	J	PU-Metal	-35 +95	0.5	•	
	PW CORD	NBR	-30 +110	1	• •	



PNEUMATIC SEALS



Wipers (ซิลกันฝุ่น)					
Design	Ref.	Material	Temp. (°C)	Speed (m/s)	Dim. mm. inch.
	SER	NBR	-25 +100	0.5	•
	SFR	NBR	-30 +100	1	•
	8600	NBR	-20 +80	1	•

Rod Seals (ซิลแกน)						
Design	Ref.	Material	Pressure (BAR)	Temp. (°C)	Speed (m/s)	Dim. mm. inch.
	PNY	NBR	10	-25 +80	1	•
	EVDI	NBR	120	-30 +100	0.25	•
	PKS	NBR	16	-40 +80	1	•

Piston & Rod Seals (ซิลลูกสูบ / ซิลแกน)						
Design	Ref.	Material	Pressure (BAR)	Temp. (°C)	Speed (m/s)	Dim. mm. inch.
	GLY	NBR	10	-25 +70	1	•
	MYA	NBR	8	-25 +70	0.4	•
	8400	NBR	50	-20 +80	1	•
	EVUM	NBR	120	-30 +110	0.25	•

Cushion Seals (ซิลกุดชน)						
Design	Ref.	Material	Pressure (BAR)	Temp. (°C)	Speed (m/s)	Dim. mm. inch.
	PP	PU	16	-35 +80	1	•
	PP	NBR	16	-20 +80	1	•
	PCS	NBR-Metal	10	-5 +80	0.5	•
	YCS	Polyester	10	-30 +80	1	•

Piston Seals (ซิลลูกสูบ)						
Design	Ref.	Material	Pressure (BAR)	Temp. (°C)	Speed (m/s)	Dim. mm. inch.
	PSD	NBR	10	-20 +80	1	•
	PPD	NBR	10	-20 +80	1	•
	DK	NBR-Metal	16	-30 +80	1	•
	TD	NBR-Metal	40	-30 +105	0.25	•
	DP	NBR-Metal	12	-30 +100	1	•
	Z5	NBR	16	-30 +80	1	•
	PZ	NBR	12	-20 +80	1	•
	PKK	NBR	16	-40 +80	1	•
	DXP	NBR	10	-40 +90	1	•
	Z8	SFR	16	-20 +80	1	•
	E4	NBR	16	-30 +80	1	•
	PGY	NBR	10	-25 +80	1	•
	APMP	PU	16	-30 +80	1	•
	EVDE	NBR	80	-30 +110	0.25	•

Rod Seals + Wipers (ซิลแกน + ซิลกันฝุ่น)						
Design	Ref.	Material	Pressure (BAR)	Temp. (°C)	Speed (m/s)	Dim. mm. inch.
	PDU	NBR	10	-20 +80	1	•
	EU	PU	16	-35 +80	1	•
	E8	SFR-Polyester	16	-20 +80	1	•
	E9	FPM-Metal	16	-10 +200	1	•
	NIPSL	NBR-Metal	12	-30 +100	1	•
	EP	PU-Metal	16	-35 +80	1	•

GASKETS



 RUBBER SHEET

 NON ASBESTOS SHEET

 PTFE SHEET ,FEP/PFA SHEET

 GRAPHITE SHEET

 SPIRAL WOUND

 JOINT SEALANT

 GLAND PACKING

 RING JOINT

RUBBER SHEET



RUBBER SHEET

MATERIALS

NR RUBBER

NBR

WHITE NBR

VITON

EPDM

WHITE EPDM

NEOPRENE

SILICONE



STANDARD SIZE

WIDTH 1500 MM

THICKNESS 0.5, 1, 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10, 12, 15, 25 MM

FEP/PFA SHEET

FEP



FEP film is a transparent fluoroplastic with a unique combination of properties:

- Resistant to high temperatures (204 ° C)
- Chemically resistant
- Ultimate non-stick surface
- UV stable
- Not flammable
- High electrical insulation
- Very transparent

You can choose from 7 different standard thicknesses:

- FEP 25 micron thick x 1220 mm maximum width
- FEP 50 micron thick x 1220 mm maximum width
- FEP 100 micron thick x 1220 mm maximum width
- FEP 127 micron thick x 1220 mm maximum width
- FEP 250 micron thick x 915 mm maximum width
- FEP 500 micron thick x 915 mm maximum width
- FEP 1000 micro thick x 915 mm maximum width

PFA



- Resistant to higher temperatures (260 ° C)
- High bending strength i.e. better flex-life
- Chemically resistant
- Ultimate non-stick surface
- UV stable

We have different thicknesses varying between 0.025 mm and 1.5 mm thick. Widths are available up to 1220 mm

COMPRESSED ASBESTOS FIBER SHEET

Compressed Non-asbestos Fiber Sheets are sheet type gasket materials, where a special rubber binder and a small amount of filler material are mixed with organic and inorganic fibers, and rolled and vulcanized.

Compressed Non-asbestos Fiber Sheet for general use



VALQUA No. 6500

Features	These products are suitable for use as general-purpose Gaskets for pipe flanges in general utility lines, such as water and oil and equipment in various industries. The adaptability of these sheets to water apparatus according to JIS S 3200-7 has been confirmed.
Unsuitable fluids	Strong oxidizing acid, strong alkali, various solvents, inflammable gas, gas susceptible to burning, toxic gas, etc.
Applications	Joint areas of steam lines, pipe flanges, valve bonnets and other equipment used in oil refineries and chemical industries
Main component	NBR, aramid fiber, mineral wool, inorganic fillers
Color / Print	Blue / Black

Anti-corrosion Compressed Non-asbestos Fiber Sheet



VALQUA No. 6500AC

Features	With reduced amounts of leachable chloride, these Compressed Fiber Sheets have corrosion suppression effect when stainless steel flanges are used for water or water solutions. Surface finishing reduces sticking to the flange.
Unsuitable fluids	Strong acid, strong alkali, various solvents, inflammable gas, gas susceptible to burn and toxic gas
Applications	Stainless steel pipe flanges, valve bonnets and joints of various equipment that require corrosion resistance in various industries
Main component	NBR, aramid fiber, mineral wool, inorganic fillers
Color / Print	Blue / Orange

BLACKSUPER



VALQUA No. 6502

Features	Excellent heat resistance when compared with 6500. It may be used for a wide variety of purposes.
Unsuitable fluids	Strong acid, strong alkali, various solvents, inflammable gas, gas susceptible to burn and toxic gas NBR, aramid fiber, carbon fiber, mineral wool, inorganic fillers
Applications	Joint areas of steam lines, pipe flanges, valve bonnets and other equipment used in oil refineries and chemical industries
Main component	NBR, aramid fiber, carbon fiber, mineral wool, inorganic fillers
Color / Print	Gray / Black

NON-METALLIC GASKET DIMENSION FOR PIPE FLANGES

NON - METALLIC GASKET DIMENSIONS FOR PIPE FLANGES

Soft material gaskets are dimensionally sized per ASME B16.21 for use with ASME B16.5 flanges. Non-metallic gaskets are used in Raised Face (RF), Flat Face (FF), Welding Neck (WN), and Slip On (SO) flanges. Typically, the outside diameter dimension is the bolt circle diameter minus one bolt diameter unless a full face gasket is requested.

ASME B16.21 GASKET TOLERANCES:

Nominal Pipe Size (NPS) 12 and smaller Outside Diameter (OD): +0.0", -1/16" (+0.0, -1.5 mm)

Nominal Pipe Size (NPS) 14 and Larger Outside Diameter (OD): +0.0", -1/8" (+0.0, -3.0 mm)

Nominal Pipe Size (NPS) 12 and smaller Inside Diameter (ID): $\pm 1/16"$ (± 1.5 mm)

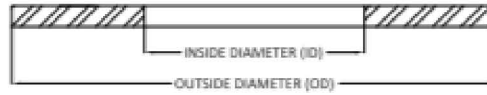
Nominal Pipe Size (NPS) 14 and Larger Inside Diameter (ID): $\pm 1/8"$ (± 3.0 mm)

Bolt Circle Diameter: $\pm 1/16"$ (± 1.5 mm)

Center to center of adjacent bolt holes: $\pm 1/32"$ (± 1.0 mm)

NON-METALLIC GASKET DIMENSION FOR PIPE FLANGES

DIMENSIONS FOR RING GASKETS PER ASME B16.21 TO SUIT ASME B16.5 FLANGES



Nominal Pipe Size (NPS)	Class 150			
	Inside Diameter (ID)		Outside Diameter (OD)	
	Inches	mm	Inches	mm
1/2	0.84	21	1.88	48
3/4	1.06	27	2.25	57
1	1.31	33	2.62	67
1 1/4	1.66	42	3.00	76
1 1/2	1.91	49	3.38	86
2	2.38	60	4.12	105
2 1/2	2.88	73	4.88	124
3	3.50	89	5.38	137
3 1/2	4.00	102	6.38	162
4	4.50	114	6.88	175
5	5.56	141	7.75	197
6	6.62	168	8.75	222
8	8.62	219	11.00	279
10	10.75	273	13.38	340
12	12.75	324	16.13	410
14	14.00	356	17.75	451
16	16.00	406	20.25	514
18	18.00	457	21.62	549
20	20.00	508	23.88	607
24	24.00	610	28.25	718

Nominal Pipe Size (NPS)	Class 400			
	Inside Diameter (ID)		Outside Diameter (OD)	
	Inches	mm	Inches	mm
1/2	0.84	21	2.12	54
3/4	1.06	27	2.62	67
1	1.31	33	2.88	73
1 1/4	1.66	42	3.25	83
1 1/2	1.91	49	3.75	95
2	2.38	60	4.38	111
2 1/2	2.88	73	5.12	130
3	3.50	89	5.88	149
3 1/2	4.00	102	6.38	162
4	4.50	114	7.00	178
5	5.56	141	8.38	213
6	6.62	168	9.75	248
8	8.62	219	12.00	305
10	10.75	273	14.12	359
12	12.75	324	16.50	419
14	14.00	356	19.00	483
16	16.00	406	21.12	536
18	18.00	457	23.38	594
20	20.00	508	25.50	648
24	24.00	610	30.25	768

Nominal Pipe Size (NPS)	Class 300			
	Inside Diameter (ID)		Outside Diameter (OD)	
	Inches	mm	Inches	mm
1/2	0.84	21	2.12	54
3/4	1.06	27	2.62	67
1	1.31	33	2.88	73
1 1/4	1.66	42	3.25	83
1 1/2	1.91	49	3.75	95
2	2.38	60	4.38	111
2 1/2	2.88	73	5.12	130
3	3.50	89	5.88	149
3 1/2	4.00	102	6.50	165
4	4.50	114	7.12	181
5	5.56	141	8.50	216
6	6.62	168	9.88	251
8	8.62	219	12.12	308
10	10.75	273	14.25	362
12	12.75	324	16.62	422
14	14.00	356	19.12	486
16	16.00	406	21.25	540
18	18.00	457	23.50	597
20	20.00	508	25.75	654
24	24.00	610	30.50	775

Nominal Pipe Size (NPS)	Class 600			
	Inside Diameter (ID)		Outside Diameter (OD)	
	Inches	mm	Inches	mm
1/2	0.84	21	2.12	54
3/4	1.06	27	2.62	67
1	1.31	33	2.88	73
1 1/4	1.66	42	3.25	83
1 1/2	1.91	49	3.75	95
2	2.38	60	4.38	111
2 1/2	2.88	73	5.12	130
3	3.50	89	5.88	149
3 1/2	4.00	102	6.38	162
4	4.50	114	7.62	194
5	5.56	141	9.50	241
6	6.62	168	10.50	267
8	8.62	219	12.62	321
10	10.75	273	15.75	400
12	12.75	324	18.00	457
14	14.00	356	19.38	492
16	16.00	406	22.25	565
18	18.00	457	24.12	613
20	20.00	508	26.88	683
24	24.00	610	31.12	791

NON-METALLIC GASKET DIMENSION FOR PIPE FLANGES

DIMENSIONS FOR FULL FACE GASKETS
TO SUIT ASME B16.5 FLANGES

Nominal Pipe Size (NPS)	Class 150							
	Inside Diameter (ID)		Outside Diameter (OD)		# of Bolt Holes	Bolt Hole Diameter (Inches)	Bolt Circle Diameter (BCD)	
	Inches	mm	Inches	mm			Inches	mm
1/2	0.84	21	3.50	89	4	0.62	2.38	60.3
3/4	1.06	27	3.88	99	4	0.62	2.75	69.9
1	1.31	33	4.25	108	4	0.62	3.12	79.4
1 1/4	1.66	42	4.63	118	4	0.62	3.50	88.9
1 1/2	1.91	49	5.00	127	4	0.62	3.88	98.4
2	2.38	60	6.00	152	4	0.75	4.75	120.7
2 1/2	2.88	73	7.00	178	4	0.75	5.50	139.7
3	3.50	89	7.50	191	4	0.75	6.00	152.4
3 1/2	4.00	102	8.50	216	8	0.75	7.00	177.8
4	4.50	114	9.00	229	8	0.75	7.50	190.5
5	5.56	141	10.00	254	8	0.88	8.50	215.9
6	6.62	168	11.00	279	8	0.88	9.50	241.3
8	8.62	219	13.50	343	8	0.88	11.75	298.5
10	10.75	273	16.00	406	12	1.00	14.25	362.0
12	12.75	324	19.00	483	12	1.00	17.00	431.8
14	14.00	356	21.00	533	12	1.12	18.75	476.3
16	16.00	406	23.50	597	16	1.12	21.25	539.8
18	18.00	457	25.00	635	16	1.25	22.75	577.9
20	20.00	508	27.50	699	20	1.25	25.00	635.0
24	24.00	610	32.00	813	20	1.38	29.50	749.3

Nominal Pipe Size (NPS)	Class 300							
	Inside Diameter (ID)		Outside Diameter (OD)		# of Bolt Holes	Bolt Hole Diameter (Inches)	Bolt Circle Diameter (BCD)	
	Inches	mm	Inches	mm			Inches	mm
1/2	0.84	21	3.75	95	4	0.63	2.63	66.8
3/4	1.06	27	4.62	117	4	0.75	3.25	82.6
1	1.31	33	4.88	124	4	0.75	3.50	88.9
1 1/4	1.66	42	5.25	133	4	0.75	3.88	98.4
1 1/2	1.91	49	6.12	155	4	0.88	4.50	114.3
2	2.38	60	6.50	165	8	0.75	5.00	127.0
2 1/2	2.88	73	7.50	191	8	0.88	5.88	149.2
3	3.50	89	8.25	210	8	0.88	6.63	168.3
3 1/2	4.00	102	9.00	229	8	0.88	7.25	184.2
4	4.50	114	10.00	254	8	0.88	7.88	200.0
5	5.56	141	11.00	279	8	0.88	9.25	235.0
6	6.62	168	12.50	318	12	0.88	10.63	269.9
8	8.62	219	15.00	381	12	1.00	13.00	330.2
10	10.75	273	17.50	445	16	1.13	15.25	387.4
12	12.75	324	20.50	521	16	1.25	17.75	450.9
14	14.00	356	23.00	584	20	1.25	20.25	514.4
16	16.00	406	25.50	648	20	1.38	22.50	571.5
18	18.00	457	28.00	711	24	1.38	24.75	628.7
20	20.00	508	30.50	775	24	1.38	27.00	685.8
24	24.00	610	36.00	914	24	1.63	32.00	812.8

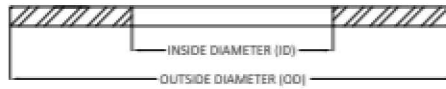
DIMENSIONS FOR FULL FACE GASKETS
TO SUIT ASME B16.5 FLANGES

Nominal Pipe Size (NPS)	Class 400							
	Inside Diameter (ID)		Outside Diameter (OD)		# of Bolt Holes	Bolt Hole Diameter (Inches)	Bolt Circle Diameter (BCD)	
	Inches	mm	Inches	mm			Inches	mm
1/2	0.84	21	3.75	95	4	0.63	2.62	66.5
3/4	1.06	27	4.63	117	4	0.75	3.25	82.6
1	1.31	33	4.88	124	4	0.75	3.50	88.9
1 1/4	1.66	42	5.25	133	4	0.75	3.88	98.4
1 1/2	1.91	49	6.13	156	4	0.88	4.50	114.3
2	2.38	60	6.50	165	8	0.75	5.00	127.0
2 1/2	2.88	73	7.50	191	8	0.88	5.88	149.2
3	3.50	89	8.25	210	8	0.88	6.63	168.3
3 1/2	4.00	102	9.00	229	8	1.00	7.25	184.2
4	4.50	114	10.00	254	8	1.00	7.88	200.0
5	5.56	141	11.00	279	8	1.00	9.25	235.0
6	6.62	168	12.50	318	12	1.00	10.63	269.9
8	8.62	219	15.00	381	12	1.13	13.00	330.2
10	10.75	273	17.50	445	16	1.25	15.25	387.4
12	12.75	324	20.50	521	16	1.38	17.75	450.9
14	14.00	356	23.00	584	20	1.38	20.25	514.4
16	16.00	406	25.50	648	20	1.50	22.50	571.5
18	18.00	457	28.00	711	24	1.50	24.75	628.7
20	20.00	508	30.50	775	24	1.63	27.00	685.8
24	24.00	610	36.00	914	24	1.88	32.00	812.8

Nominal Pipe Size (NPS)	Class 600							
	Inside Diameter (ID)		Outside Diameter (OD)		# of Bolt Holes	Bolt Hole Diameter (Inches)	Bolt Circle Diameter (BCD)	
	Inches	mm	Inches	mm			Inches	mm
1/2	0.84	21	3.75	95	4	0.63	2.63	66.8
3/4	1.06	27	4.63	117	4	0.75	3.25	82.6
1	1.31	33	4.88	124	4	0.75	3.50	88.9
1 1/4	1.66	42	5.25	133	4	0.75	3.88	98.4
1 1/2	1.91	49	6.13	156	4	0.88	4.50	114.3
2	2.38	60	6.50	165	8	0.75	5.00	127.0
2 1/2	2.88	73	7.50	191	8	0.88	5.88	149.2
3	3.50	89	8.25	210	8	0.88	6.63	168.3
3 1/2	4.00	102	9.00	229	8	1.00	7.25	184.2
4	4.50	114	10.75	273	8	1.00	8.50	215.9
5	5.56	141	13.00	330	8	1.13	10.50	266.7
6	6.62	168	14.00	356	12	1.13	11.50	292.1
8	8.62	219	16.50	419	12	1.25	13.75	349.3
10	10.75	273	20.00	508	16	1.38	17.00	431.8
12	12.75	324	22.00	559	20	1.38	19.25	489.0
14	14.00	356	23.75	603	20	1.50	20.75	527.1
16	16.00	406	27.00	686	20	1.63	23.75	603.3
18	18.00	457	29.25	743	20	1.75	25.75	654.1
20	20.00	508	32.00	813	24	1.75	28.50	723.9
24	24.00	610	37.00	940	24	2.00	33.00	838.2

NON-METALLIC GASKET DIMENSION FOR PIPE FLANGES

DIMENSIONS FOR RING GASKETS PER ASME B16.21
TO SUIT ASME B16.47 SERIES A FLANGES



Nominal Pipe Size (NPS)	Class 150			
	Inside Diameter (ID)		Outside Diameter (OD)	
	Inches	mm	Inches	mm
26	26.00	660	30.50	775
28	28.00	711	32.75	832
30	30.00	762	34.75	883
32	32.00	813	37.00	940
34	34.00	864	39.00	991
36	36.00	914	41.25	1048
38	38.00	965	43.75	1111
40	40.00	1016	45.75	1162
42	42.00	1067	48.00	1219
44	44.00	1118	50.25	1276
46	46.00	1168	52.25	1327
48	48.00	1219	54.50	1384
50	50.00	1270	56.50	1435
52	52.00	1321	58.75	1492
54	54.00	1372	61.00	1549
56	56.00	1422	63.25	1607
58	58.00	1473	65.50	1664
60	60.00	1524	67.50	1715

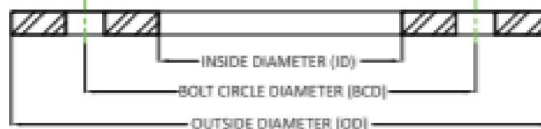
Nominal Pipe Size (NPS)	Class 400			
	Inside Diameter (ID)		Outside Diameter (OD)	
	Inches	mm	Inches	mm
26	26.00	660	32.75	832
28	28.00	711	35.12	892
30	30.00	762	37.25	946
32	32.00	813	39.50	1003
34	34.00	864	41.50	1054
36	36.00	914	44.00	1118
38	38.00	965	42.25	1073
40	40.00	1016	44.38	1127
42	42.00	1067	46.38	1178
44	44.00	1118	48.50	1232
46	46.00	1168	50.75	1289
48	48.00	1219	53.00	1346
50	50.00	1270	55.25	1403
52	52.00	1321	57.26	1454
54	54.00	1372	59.75	1518
56	56.00	1422	61.75	1568
58	58.00	1473	63.75	1619
60	60.00	1524	66.25	1683

Nominal Pipe Size (NPS)	Class 300			
	Inside Diameter (ID)		Outside Diameter (OD)	
	Inches	mm	Inches	mm
26	26.00	660	32.88	835
28	28.00	711	35.38	899
30	30.00	762	37.50	953
32	32.00	813	39.62	1006
34	34.00	864	41.62	1057
36	36.00	914	44.00	1118
38	38.00	965	41.50	1054
40	40.00	1016	43.88	1115
42	42.00	1067	45.88	1165
44	44.00	1118	48.00	1219
46	46.00	1168	50.12	1273
48	48.00	1219	52.12	1324
50	50.00	1270	54.25	1378
52	52.00	1321	56.25	1429
54	54.00	1372	58.75	1492
56	56.00	1422	60.75	1543
58	58.00	1473	62.75	1594
60	60.00	1524	64.75	1645

Nominal Pipe Size (NPS)	Class 600			
	Inside Diameter (ID)		Outside Diameter (OD)	
	Inches	mm	Inches	mm
26	26.00	660	34.12	867
28	28.00	711	36.00	914
30	30.00	762	38.25	972
32	32.00	813	40.25	1022
34	34.00	864	42.25	1073
36	36.00	914	44.50	1130
38	38.00	965	43.50	1105
40	40.00	1016	45.50	1156
42	42.00	1067	48.00	1219
44	44.00	1118	50.00	1270
46	46.00	1168	52.26	1327
48	48.00	1219	54.75	1391
50	50.00	1270	57.00	1448
52	52.00	1321	59.00	1499
54	54.00	1372	61.25	1556
56	56.00	1422	63.50	1613
58	58.00	1473	65.50	1664
60	60.00	1524	67.75	1721

NON-METALLIC GASKET DIMENSION FOR PIPE FLANGES

DIMENSIONS FOR FULL FACE GASKETS TO SUIT ASME B16.47 SERIES A FLANGES

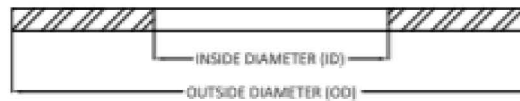


Nominal Pipe Size (NPS)	Class 150							
	Inside Diameter (ID)		Outside Diameter (OD)		# of Bolt Holes	Bolt Hole Diameter	Bolt Circle Diameter (BCD)	
	Inches	mm	Inches	mm			Inches	mm
26	26.00	660	34.25	870	24	1.38	31.75	806.5
28	28.00	711	36.50	927	28	1.38	34.00	863.6
30	30.00	762	38.75	984	28	1.38	36.00	914.4
32	32.00	813	41.75	1060	28	1.63	38.50	977.9
34	34.00	864	43.75	1111	32	1.63	40.50	1028.7
36	36.00	914	46.00	1168	32	1.63	42.75	1085.9
38	38.00	965	48.75	1238	32	1.63	45.25	1149.4
40	40.00	1016	50.75	1289	36	1.63	47.25	1200.2
42	42.00	1067	53.00	1346	36	1.63	49.50	1257.3
44	44.00	1118	55.25	1403	40	1.63	51.75	1314.5
46	46.00	1168	57.25	1454	40	1.63	53.75	1365.3
48	48.00	1219	59.50	1511	44	1.63	56.00	1422.4
50	50.00	1270	61.75	1568	44	1.88	58.25	1479.6
52	52.00	1321	64.00	1626	44	1.88	60.50	1536.7
54	54.00	1372	66.25	1683	44	1.88	62.75	1593.9
56	56.00	1422	68.75	1746	48	1.88	65.00	1651.0
58	58.00	1473	71.00	1803	48	1.88	67.25	1708.2
60	60.00	1524	73.00	1854	52	1.88	69.25	1759.0

Nominal Pipe Size (NPS)	Class 300							
	Inside Diameter (ID)		Outside Diameter (OD)		# of Bolt Holes	Bolt Hole Diameter	Bolt Circle Diameter (BCD)	
	Inches	mm	Inches	mm			Inches	mm
26	26.00	662	38.25	972	28	1.75	34.50	876.3
28	28.00	713	40.75	1035	28	1.75	37.00	939.8
30	30.00	764	43.00	1092	28	1.88	39.25	997.0
32	32.00	815	45.25	1149	28	2.00	41.50	1054.1
34	34.00	866	47.50	1207	28	2.00	43.50	1104.9
36	36.00	917	50.00	1270	32	2.13	46.00	1168.4
38	38.00	968	46.00	1168	32	1.63	43.00	1092.2
40	40.00	1019	48.75	1238	32	1.75	45.50	1155.7
42	42.00	1070	50.75	1289	32	1.75	47.50	1206.5
44	44.00	1121	53.25	1353	32	1.88	49.75	1263.7
46	46.00	1172	55.75	1416	28	2.00	52.00	1320.8
48	48.00	1223	57.75	1467	32	2.00	54.00	1371.6
50	50.00	1274	60.25	1530	32	2.13	56.25	1428.8
52	52.00	1324	62.25	1581	32	2.13	58.25	1479.6
54	54.00	1375	65.25	1657	28	2.38	61.00	1549.4
56	56.00	1426	67.25	1708	28	2.38	63.00	1600.2
58	58.00	1477	69.25	1759	32	2.38	65.00	1651.0
60	60.00	1528	71.25	1810	32	2.38	67.00	1701.8

NON-METALLIC GASKET DIMENSION FOR PIPE FLANGES

DIMENSIONS FOR RING GASKETS PER ASME B16.21 TO SUIT ASME B16.47 SERIES B FLANGES

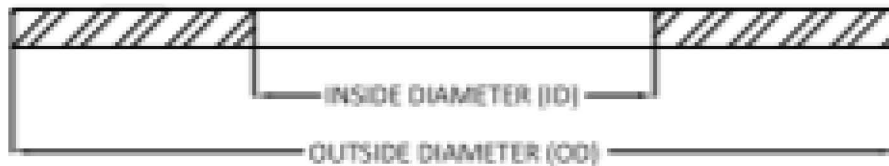
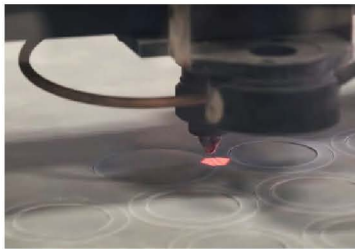


Nominal Pipe Size (NPS)	Class 150			
	Inside Diameter (ID)		Outside Diameter (OD)	
	Inches	mm	Inches	mm
26	26.00	660	28.56	725
28	28.00	711	30.56	776
30	30.00	762	32.56	827
32	32.00	813	34.69	881
34	34.00	864	36.81	935
36	36.00	914	38.88	988
38	38.00	965	41.12	1044
40	40.00	1016	43.12	1095
42	42.00	1067	45.12	1146
44	44.00	1118	47.12	1197
46	46.00	1168	49.44	1256
48	48.00	1219	51.44	1307
50	50.00	1270	53.44	1357
52	52.00	1321	55.44	1408
54	54.00	1372	57.62	1464
56	56.00	1422	59.62	1514
58	58.00	1473	62.19	1580
60	60.00	1524	64.19	1630

Nominal Pipe Size (NPS)	Class 300			
	Inside Diameter (ID)		Outside Diameter (OD)	
	Inches	mm	Inches	mm
26	26.00	660	30.38	772
28	28.00	711	32.50	826
30	30.00	762	34.88	886
32	32.00	813	37.00	940
34	34.00	864	39.12	994
36	36.00	914	41.25	1048
38	38.00	965	43.25	1099
40	40.00	1016	45.25	1149
42	42.00	1067	47.25	1200
44	44.00	1118	49.25	1251
46	46.00	1168	51.88	1318
48	48.00	1219	53.88	1369
50	50.00	1270	55.88	1419
52	52.00	1321	57.88	1470
54	54.00	1372	60.25	1530
56	56.00	1422	62.75	1594
58	58.00	1473	65.19	1656
60	60.00	1524	67.12	1705

NON-METALLIC GASKET DIMENSION FOR PIPE FLANGES

DIMENSIONS FOR FLAT RING GASKETS PER ASME B16.21 TO SUIT ASME B16.47 SERIES B FLANGES

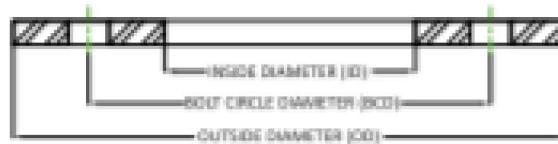


Nominal Pipe Size (NPS)	Class 400			
	Inside Diameter (ID)		Outside Diameter (OD)	
	Inches	mm	Inches	mm
26	26.00	660	29.38	746
28	28.00	711	31.50	800
30	30.00	762	33.75	857
32	32.00	813	35.88	911
34	34.00	864	37.88	962
36	36.00	914	40.25	1022

Nominal Pipe Size (NPS)	Class 600			
	Inside Diameter (ID)		Outside Diameter (OD)	
	Inches	mm	Inches	mm
26	26.00	660	30.12	765
28	28.00	711	32.25	819
30	30.00	762	34.62	879
32	32.00	813	36.75	933
34	34.00	864	39.25	997
36	36.00	914	41.25	1048

NON-METALLIC GASKET DIMENSION FOR PIPE FLANGES

DIMENSIONS FOR FULL FACE GASKETS TO SUIT ASME B16.47 SERIES B FLANGES



Nominal Pipe Size (NPS)	Inside Diameter (ID)		Outside Diameter (OD)		Class 150			
					# of Bolt Holes	Bolt Hole Diameter	Bolt Circle Diameter (BCD)	
	Inches	mm	Inches	mm			Inches	mm
26	26.00	660	30.94	786	36	0.88	29.31	744.5
28	28.00	711	32.94	837	40	0.88	31.31	795.3
30	30.00	762	34.94	887	44	0.88	33.31	846.1
32	32.00	813	37.06	941	48	0.88	35.44	900.2
34	34.00	864	39.56	1005	40	1.00	37.69	957.3
36	36.00	914	41.63	1057	44	1.00	39.75	1009.7
38	38.00	965	44.25	1124	40	1.13	42.13	1070.1
40	40.00	1016	46.25	1175	44	1.13	44.13	1120.9
42	42.00	1067	48.25	1226	48	1.13	46.13	1171.7
44	44.00	1118	50.25	1276	52	1.13	48.13	1222.5
46	46.00	1168	52.81	1341	40	1.25	50.56	1284.2
48	48.00	1219	54.81	1392	44	1.25	52.56	1335.0
50	50.00	1270	56.81	1443	48	1.25	54.56	1385.8
52	52.00	1321	58.81	1494	52	1.25	56.56	1436.6
54	54.00	1372	61.00	1549	56	1.25	58.75	1492.3
56	56.00	1422	63.00	1600	60	1.25	60.75	1543.1
58	58.00	1473	65.94	1675	48	1.38	63.44	1611.4
60	60.00	1524	67.94	1726	52	1.38	65.44	1662.2

Nominal Pipe Size (NPS)	Inside Diameter (ID)		Outside Diameter (OD)		Class 300			
					# of Bolt Holes	Bolt Hole Diameter	Bolt Circle Diameter (BCD)	
	Inches	mm	Inches	mm			Inches	mm
26	26.00	660	34.13	867	32	1.38	31.63	803.4
28	28.00	711	36.25	921	36	1.38	33.75	857.3
30	30.00	762	39.00	991	36	1.50	36.25	920.8
32	32.00	813	41.50	1054	32	1.63	38.50	977.9
34	34.00	864	43.63	1108	36	1.63	40.63	1032.0
36	36.00	914	46.13	1172	32	1.75	42.88	1089.2
38	38.00	965	48.13	1233	36	1.75	44.88	1140.0
40	40.00	1016	50.13	1273	40	1.75	46.88	1190.8
42	42.00	1067	52.50	1334	36	1.88	49.00	1244.6
44	44.00	1118	54.50	1384	40	1.88	51.00	1295.4
46	46.00	1168	57.50	1461	36	2.00	53.75	1365.3
48	48.00	1219	59.50	1511	40	2.00	55.75	1416.1
50	50.00	1270	61.50	1562	44	2.00	57.75	1466.9
52	52.00	1321	63.50	1613	48	2.00	59.75	1517.7
54	54.00	1372	65.88	1673	48	2.00	62.13	1578.1
56	56.00	1422	69.50	1765	36	2.38	65.00	1651.0
58	58.00	1473	71.94	1827	40	2.38	67.44	1713.0
60	60.00	1524	73.94	1878	40	2.38	69.44	1763.8

PTFE SHEET

PTFE SKIVED ROLL
PTFE ETCHED SHEET



WIDTH 1200 (mm)
THICKNESS 0.025-6 (mm)



GRAPHITE SHEET



LG : PURE GRAPHITE
LGR : FLAT SS316 INSERT
LGRF : PERFORATED SS316 REINFORCEMENT

STANDARD SIZE
1500x1500 (mm)
THICKNESS 0.5, 1, 1.5, 2, 3, 5, 6 (mm)

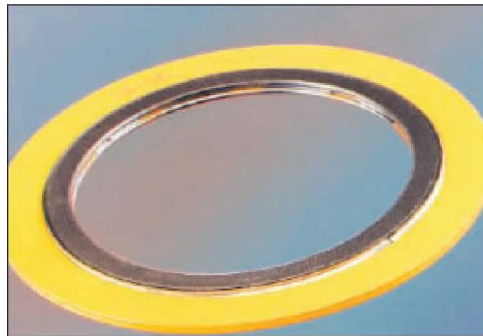




SPIRAL WOUND GASKETS

MATERIAL	ABBREVIATION	COLOR CODE
METALLIC WINDING MATERIALS		
Carbon steel	CRS	Silver
304 SS	304	Yellow
304 L SS	304 L	No color
309 SS	309	No color
310 SS	310	No color
316 L SS	316 L	Green
347 SS	347	Blue
321 SS	321	Turquoise
430 SS	430	No color
Monel 400	MON	Orange
Nickel 200	NI	Red
Titanium	TI	Purple
20Cb-3 alloy	A-20	Black
Hastelloy B	HAST B	Brown
Hastelloy C	HAST C	Beige
Inconel 600	INC 600	Gold
Inconel 625	INC 625	Gold
Inconel X-750	INX	No color
Incoloy 800	IN 800	White
Incoloy 825	IN 825	White
Zirconium	ZIRC	No color
MATERIAL	ABBREVIATION	COLOR CODE
NONMETALLIC FILLER MATERIALS		
Poly tetra fluoro ethylene	PTFE	White stripe
Mica-graphite	Manufacturer's designation	Pink stripe
Flexible graphite	F.G.	Gray stripe
Ceramic	CER	Light green stripe

GASKET SELECTION What style of gasket should I select?



Style CG



Style CGI



Style R



Style RIR



RING JOINT GASKET



• Materials

Material		Frequency of Use						
Name	Maximum Hardness (Hv)	○	◐	◑	◒	◓	◔	
Low Carbon Steel	120	○	◐	◑	◒	◓	◔	
Soft Iron	90	○	◐	◑	◒	◓	◔	
Copper	60	△	◐	◑	◒	◓	◔	
SUS304	160	○	◐	◑	◒	◓	◔	
SUS304L	150	○	◐	◑	◒	◓	◔	
SUS310S	160	○	◐	◑	◒	◓	◔	
SUS316	160	○	◐	◑	◒	◓	◔	
SUS316L	150	○	◐	◑	◒	◓	◔	
SUS321	160	○	◐	◑	◒	◓	◔	
SUS347	160	○	◐	◑	◒	◓	◔	
SUS430	170	△	◐	◑	◒	◓	◔	
5Cr-0.5Mo Steel	130	○	◐	◑	◒	◓	◔	
Monel Metal	140	○	◐	◑	◒	◓	◔	
Titanium	140	○	◐	◑	◒	◓	◔	
Aluminum	40	△	◐	◑	◒	◓	◔	
Nickel	120	○	◐	◑	◒	◓	◔	

○ : frequently used ◐ : used with some frequency △ : used only for custom applications

• Product Types

Name	Cross Sectional Configuration	VALQUA Part No.
Ring Joint Gasket (Oval Cross Section)		550-ZO
Ring Joint Gasket (Octagonal Cross Section)		550-ZS
Ring Joint Gasket (API-FX Cross Section)		550-ZA
Ring Joint Gasket (API-BX Cross Section)		550-ZP
Improved Bridgeman Gasket (Wedge Cross Section)		550-ZB
Delta Ring (Triangular Cross Section)		550-ZD
Lens Ring (Lens Cross Section)		550-ZL
Double Cone Shaped Gasket (Double Cone Cross Section)		550-ZW
Circle Shaped Metal Gasket (Circle Cross Section)		550-ZR
Diamond Cross Section Ring		550-ZE

■ Flange Surface Roughness (reference)
The recommended flange surface roughness is 1.6 μ (Ra).
However, this value may be adjusted based on the desired sealing level and fluids involved.

JOINT SEALANT



Metric Size
(3 x 1.5)mm x 30m
(5 x 2.0)mm x 20m
(7 x 2.5)mm x 15m
(10 x 3.0)mm x 8m
(14 x 5.0)mm x 5m
(17 x 6.0)mm x 5m
(20 x 7.0)mm x 5m
(25 x 10.0)mm x 5m
(12 x 4.0)mm x 7m

Features :

- 100%PTFE, highly compressible and conformable
- Resists cold flow and creep
- Pressures to 3,000psi
- Temperatures from -450°F to +600°F
- pH 0-14, inert to all common chemicals

EXPANDED PTFE



Available Sizes :	
SIZE	THICKNESS FOR SOFT
Metric size: 1500mmX1500mm English size: 60"X60"	0.5mm 1.0mm 1.5mm (+1/16") 2.0mm 3.0mm (+1/8") 4.0mm 5.0mm 6.0mm (+1/4")
Metric size: 2000mmX2000mm English size: 80"X80"	1.5mm (+1/16") 2.0mm 3.0mm (+1/8")

Features :

- 100% Pure PTFE
- Good sealability
- Good flexibility
- Highly compressible
- Uniform and highly fibrillated microstructure in multidirection
- Resistant to creep and cold flow.
- Less creep and re-torquing
- Unaffected by common chemicals, pH range 0-14
- Non-contaminating, non-toxic.
- Using temperature from -450°F to +500 °F for short time up to +600 °F
- Low compressive load to seal
- Can seal rough or damaged flanges.

GLAND
PACKING

Constructions and Features



▲ No.6201



▲ No.6232



▲ No.6234

■ Carbon fiber based ■

For water & oil pumps

VALQUA No.
6201

Coil packing made of carbonized fabric yarn, processed with PTFE dispersion and lubricating oil, then braided into a square cross section and finished with PTFE, fine graphite and lubricating oil.

- ▶ Serviceable for relatively versatile fluids.
- ▶ Permissible PV value and shaft speed limit are allowed.
- ▶ Shaft wear due to packing is reduced.

For general use valves & reciprocating motion machines

VALQUA No.
6232

Coil packing made of carbon fiber yarns, processed with PTFE dispersion and lubricating oil, then braided into a square cross section and finished with PTFE, fine graphite and lubricating oil.

- ▶ Good compatibility with shafts offers excellent sealing property even at low tightening pressures.
- ▶ Suitable for almost all fluids excepting for strong oxidizing fluids.

For water & oil pumps, and rotating machines

VALQUA No.
6234

*Patented product

Coil packing made of carbonized fabric yarn processed with PTFE dispersion and covered with PTFE film, braided into a square cross section, then its surface finished with PTFE dispersion, inorganic filler and lubricating oil.

- ▶ Handleability is greatly improved, while hard to burn up.
- ▶ PTFE film prevents generation of abrasion powder of carbon fiber.
- ▶ Serviceable for relatively versatile fluids.

For chemical pumps

VALQUA No.
6262

Coil packing made of carbon fiber yarns, processed with PTFE dispersion and lubricating oil, then braided into a square cross section and finished with PTFE, fine graphite and lubricating oil.

- ▶ Permissible PV value and shaft speed limit are allowed.
- ▶ Shaft wear due to packing is reduced.
- ▶ Suitable for almost all fluids excepting for strong oxidizing fluids.

For high temperature & high pressure valves for treating water & oil based fluids

VALQUA No.
6267

Coil packing made of carbon fiber yarns, processed with graphite, then braided into a square cross section and finished with graphite.

- ▶ Packing exclusive for adapters, to be used in combination with graphite packing.
- ▶ Suitable for valve shaft seals for handling water & oil based fluids, nonflammable and inflammable gases as well as liquefied gas.

For seals of exhaust heat duct joints, dampers and dryer doors

VALQUA No.
6345

Coil packing made of high grade carbon fiber yarns, processed with graphite, then braided into a square cross section and finished with graphite.

- ▶ Inexpensive Non-Asbestos product used for seals of dampers and dryer doors.
- ▶ Composed of carbon fiber and graphite, these have a high fiber strength and are excellent in elasticity and heat resistance.
- ▶ The amount of organic materials used being reduced, there is little smoke released at the time of heating.

GLAND
PACKING

Constructions and Features



▲ No.6399



▲ No.6399H



▲ No.7202



▲ No.7202E

For plunger pumps

VALQUA No.
6399

Coil packing made of high strength carbon fiber yarns, processed with PTFE dispersion, then braided into a square cross section and finished with PTFE and fine graphite.

- ▶ With high fiber strength as well as excellent durability and elasticity, these are suited for shaft seals of reciprocating motion machines for handling water & oil based fluids, and solvent vapors.

For plunger pumps

VALQUA No.
6399H

Endless packing similar to No.6399, but molded tight into specified dimensions.

- ▶ These are suited for shaft seals of high pressure reciprocating motion machines for handling water & oil based fluids, and solvent vapors.
- ▶ These are normally used in combination with carbon bushes, No.6399 and No.8201.
- ▶ These can also be used as adapter packing for valve shaft seals.

For control valves

VALQUA No.
6399L

Coil packing made of high strength carbon fiber yarns, processed with PTFE dispersion, then braided into a square cross section and finished with PTFE and lubricating oil.

- ▶ These can be directly used as adapter packing for control valve shaft seals.
- ▶ For control valves with Class 1500 or below, these can be used alone.

■ VALFLON™ based ■

For high shaft speed pumps and rotary equipment for handling versatile chemical fluids

VALQUA No.
7202

Coil packing made of PTFE yarn, integrated with graphite and lubricating oil, then braided tight into a square cross section.

- ▶ With a construction considering elasticity and wear resistance, these are suited for large-diameter machines and for locations subject to high load.
- ▶ With excellent heat conductivity and chemicals resistance, these are best suited for high shaft speed rotating shafts for handling water & oil as well as chemical fluids.
- ▶ Shaft wear due to packing is negligible.
- ▶ Products with a dimension 6.5 mm or larger are available.

For high shaft speed pumps and rotary equipment for handling versatile chemical fluids

VALQUA No.
7202E

Coil packing made of PTFE fiber including graphite and lubricating oil, braided tight into a square cross section.

- ▶ With excellent heat conductivity and chemicals resistance, these are best suited for high shaft speed rotating shafts for handling water & oil as well as chemical fluids.
- ▶ Shaft wear due to packing is negligible.

GLAND
PACKING

Constructions and Features



▲ No.7202W



▲ No.7203



▲ No.7232



▲ No.7233

For high shaft speed pumps and rotary equipment for handling versatile chemical fluids

VALQUA No.
7202W

Coil packing made of PTFE fiber including white filler and lubricating oil, braided tight into a square cross section.

- ▶ These are excellent in thermal expansion resistance, heat conductivity, and chemicals resistance.
- ▶ Shaft wear due to packing is negligible.
- ▶ These can be used for higher peripheral speed applications than 100% PTFE gland packing.
- ▶ These comply with the Food Sanitation Law, and the Regulations concerning Food & Additives.

For rotating shafts of agitators and the like

VALQUA No.
7203

Coil packing made of PTFE fiber yarns integrated with graphite and lubricating oil and of aramid fiber yarns, processed with PTFE and lubricating oil so as to form the corner section made of aramid fiber, then braided tight into a square cross section.

- ▶ This is a high performance hybrid packing that is featured with the strength of aramid fiber and with the lubrication property of graphite-integrated PTFE fiber yarn.
- ▶ Having characteristics similar to those of No.7202, but these No.7203 are best suited for shaft seals in use for rotating machines and reciprocating machines subject to still higher pressure and load.
- ▶ Products with a dimension \square 6.5mm or larger are available.

For corrosive fluids

VALQUA No.
7232

Coil packing made of PTFE fiber yarns, processed with PTFE dispersion, then braided into a square cross section.

- ▶ Being made of 100% PTFE, these are resisting to almost all fluids.
- ▶ Thus, these are best suited for shaft seals of rotating machines such as agitators handling corrosive fluids. Depending on service conditions, they may also be applied as shaft seals for valves and reciprocating motion machines.
- ▶ No.7232 (SO) should be used when low torque or gas sealing property is required.
- ▶ These comply with the Food Sanitation Law, and the Regulations concerning Food & Additives.

For corrosive fluid valves

VALQUA No.
7233

Coil packing made of PTFE fiber yarns, processed with PTFE dispersion, then braided into a square cross section.

- ▶ Being made of 100% PTFE, these are resisting to almost all fluids.
- ▶ Thus, these are best suited for chemical use valve shaft seals for handling corrosive fluids.
- ▶ When low torque or gas sealing property is required, use the following products which are treated with lubricating oil:
 - No.7233 (O) for general gas based fluids
 - No.7233 (SO) for low temperature use of inflammable gas and liquefied gas
 - No.7233 (FO) for gas susceptible to burn such as oxygen and ozone.
- ▶ These comply with the Food Sanitation Law, and the Regulations concerning Food & Additives.

For low & medium shaft speed pumps and rotary equipment for handling corrosive fluids

VALQUA No.
7262

Coil packing made of PTFE fiber yarns, processed with PTFE dispersion and lubricating oil, then braided into a square cross section.

- ▶ Flexible and compatible with shafts, these are excellent in sealing property.
- ▶ Being highly excellent in chemicals resistance, these are best suited for pumps handling corrosive fluids.

GLAND
PACKING

Constructions and Features



▲ No.8132



▲ No.8133



▲ No.8201



▲ No.1110

■ Metal based ■

For high temperature & high pressure valves

VALQUA No.
1110

Spiral type packing made of aluminum ribbon treated with graphite and lubricating oil, then formed into a square cross section.

- ▶ These are suitable for adapter packing to prevent extrusions of soft packing.

■ Special fiber based ■

For low & medium shaft speed pumps and rotary equipment

VALQUA No.
8132

Coil packing made of blended yarn of aramid fiber and of artificial inorganic fiber treated with PTFE dispersion, braided into a square cross section, then finished soft with PTFE dispersion and lubricating oil.

- ▶ These are flexible and compatible with shafts.
- ▶ Being white in color, these can be used for fluid applications where black color should be avoided.
- ▶ These are best suited as a Non-Asbestos alternative for No.7132.
- ▶ These can be used as shaft seals of pumps for handling water based and oil based fluids as well as weak acid and weak alkaline fluids. These are further used as shaft seals of rotating machines such as mixers and agitators where contamination is not desirable.

For general use valves

VALQUA No.
8133

Coil packing made of blended yarn of aramid fiber and of artificial inorganic fiber treated with inorganic filler, braided into a square cross section, then finished with PTFE dispersion.

- ▶ These are white clean packing without using lubricating oil.
- ▶ These can be used as shaft seals of general use valve for handling water based and oil based fluids.

For general use valves

VALQUA No.
8133L

Coil packing made of blended yarn of aramid fiber and of artificial inorganic fiber treated with inorganic filler, braided into a square cross section, then finished with PTFE dispersion and lubricating oil.

- ▶ With low shaft resistance and excellent sealing property, these are best suited for valves.
- ▶ With characteristics nearly similar to those of No.8133, these are best suited in particular as general use valve shaft seals for handling gas based fluids.

For general applications

VALQUA No.
8137

Coil packing made of blended yarn of aramid fiber and of artificial inorganic fiber treated with PTFE dispersion, braided into a square cross section, then finished with PTFE dispersion.

- ▶ These are white clean packing without using lubricating oil.
- ▶ These are excellent in cost per performance.
- ▶ These can be widely used for general use valves as well as for shaft seals of agitators and plunger pumps.

For pumps and rotating & reciprocating motion machines

VALQUA No.
8201

Coil packing made of aramid fiber yarns treated with PTFE dispersion and lubricating oil, then braided into a square cross section.

- ▶ With excellent wear resistance and unparallel durability, No.8201 packing has come one step closer to a maintenance free product.
- ▶ These exhibit an excellent performance as rotating shaft seals for handling slurry and high viscosity fluids.

For low speed rotating shafts and reciprocating motion machines

VALQUA No.
8201
(NL)

Coil packing made of aramid fiber yarns treated with PTFE dispersion, then braided into a square cross section.

- ▶ With excellent wear resistance and unparallel durability, No.8201 (NL) packing has come one step closer to a maintenance free product.
- ▶ These exhibit an excellent performance as low speed rotating shaft seals for handling slurry and high viscosity fluids.
- ▶ Free from lubricating oil, these can be used for locations where contamination due to oil should be avoided.

Custom Rubber Parts

รับผลิตชิ้นงานยางตามแบบ ตามตัวอย่างและตาม Drawing สำหรับอุตสาหกรรม เราเน้นคุณภาพของชิ้นงานและวัตถุดิบประเภทยางเพื่องานอุตสาหกรรม ตามความต้องการของลูกค้า ทดแทนการนำเข้าสินค้าสามารถลดต้นทุนสินค้าได้เมื่อเปรียบเทียบการนำเข้าสินค้าจากต่างประเทศ อาทิเช่น Seals, Rubber Gaskets, Oil Seal, O-Ring, Wiper Seal, Bush ยางกันกระแทกส่วนต่างๆ ในการผลิต ยางขอบกันกระแทก เป็นต้น ยางไหลเป็นเส้น Cord Rubber, Cord Sponge, ชิ้นส่วนยางสำหรับงานอุตสาหกรรม เป็นต้น



Materials

URETHANE RUBBER (PU)

SILICONE RUBBER

NBR NITRILE RUBBER

EPDM ETHYLENE RUBBER

NEOPRENE CHLOROPRENE RUBBER (CR)

SBR STYRENE-BUTADIENE RUBBER

Viton Rubber

Silicone Rubber



SPECIAL PRODUCTS

RUBBER FLEXIBLE JOINT SINGLE SPHERE-MAT.EPDM/
NBR WITHFLANGE ALL TYPE : JIS/PN/ASTM



METAL BELLOW EXPANSION JOINT FOR VACUUM
Size Range : DN6 Up To DN600
Wall Thickness : 0.15 Up To 0.8 mm
Material : SUS304
Standard : ASTM, DIN, JIS



FLEXIBLE HOSE LARGE SIZE DIAMETER
Size : DN100 (4") - DN600 (24")

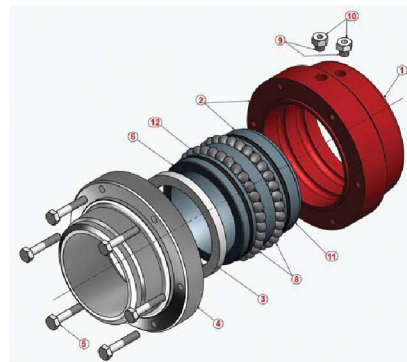


BELLOW ELEMENTS FOR EXPANSION JOINT 2
PLIESANNULAR MATERIALS : OUTER/SS304, INNER/321
Size Range : From 1" (DN25) to 24" (DN600)
RAW Material : SS304, SS321, SS316L
Forming Method : Hydroformed Bellows And
Mechanically Expansion Bellows Multi-Ply
Bellows : From Single Ply Up To 2 Plies



Base Swivel Joint Part List

ITEM	NAME	QUANTITY			MATERIAL
		4"	6"	8"	
		100	150	200	
1	Swivel Joint	1	1	1	CS/SS/AL/Hastelloy
2	Midpart	1	1	1	CS/SS/AL/Hastelloy
3	Product Seal, PTFE	1	1	1	PTFE
3	Product Seal, Viton	1	1	1	VITON
3	Product Seal, EPDM	1	1	1	EPDM
4	Swivel Flange	1	1	1	CS/SS/AL/Hastelloy
5	Bolts	10	12	20	Stainless Steel
6	Nipple*	1	1	1	Stainless Steel
7	Coupler*	1	1	1	CS/SS/AL/Hastelloy
8	Ball	78	76	98	Stainless Steel
9	Ballplug	2	2	2	Stainless Steel
10	Nuts	2	-	-	Stainless Steel
11	Dust Seal, PTFE	1	1	1	PTFE
11	Dust Seal, NBR	1	1	1	NBR
11	Dust Seal, FPM	1	1	1	FRM
12	Chamber Seal, PTFE	1	1	1	PTFE
12	Chamber Seal, FPM	1	1	1	FRM



Special Product Spare Parts For Loading Arms

All Leading Brands Supply eg. Wiese, SVT, Connex, Woodfield, Emco Wheaton, Kanon, OPW

TUYAU ALIMENTAIRE "DEPOTAL+[®]" FOOD HOSE "DEPOTAL+[®]"



TUYAU ALIMENTAIRE "DEPOTAL+" FOOD HOSE "DEPOTAL+"

TUYAU ALIMENTAIRE "DEPOTAL+®" FOOD HOSE "DEPOTAL+®"

- Tube intérieur - *Inner Bore*
- Agréments - *Standard*
- Renforts - *Reinforcement*

- Revêtement extérieur - *Outer surface*
- Température d'utilisation en continu - *Temperature range*
- Température maxi en pointe - *Maximum Peak temperature*
- Longueur maxi de fabrication - *Maximum length*

EPDM blanc de qualité alimentaire - *White food quality EPDM*
 FDA 21CFR - 177 2600, BfR, USP Physicochemical 661
 Par trames textile noyées dans la paroi et spires acier
Textile ply and steel wires
 EPDM bleu - *Blue EPDM Rubber*
 De - 30° à + 120° C - *From - 22° to + 248° F*
 160° C (320°F)
 40 mètres - *131 feet*

CARACTERISTIQUES - SPECIFICATIONS

- Tuyau robuste résistant à l'usure et frottements sur les sols - *Very robust hose, ideal for resisting ground abrasion.*
- Nettoyage - *Cleaning* : Produit CIP, stérilisation à la vapeur (30mn à 130°C) ou par radiation
 CIP products, sterilization by steam (30 mn, 255°F) or by radiation.
- Tenue au vide et en pression - *Suitable for vacuum and pressure use.*

APPLICATIONS - APPLICATIONS

- Recommandé pour tous types de produits alimentaires, même à température élevée.
Recommended for all types of food products, even at high temperature.

ATTENTION ! - WARNING !

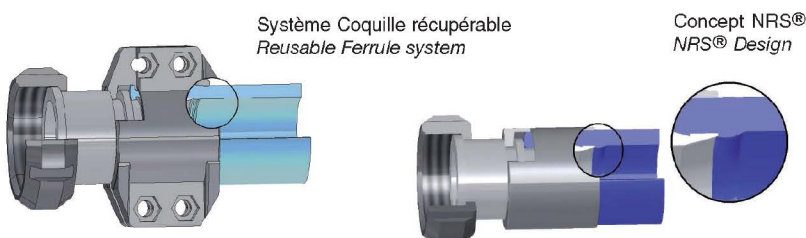
Le DEPOTAL+® n'est pas conseillé pour l'utilisation de certains produits gras et crémeux. Pour ces derniers, utiliser notre tuyau NITRIFOOD® - *DEPOTAL+® hose is not compatible with creamy products like cream, oil or cosmetic creams. For these products, use our hose NITRIFOOD®.*

Diam. Int. Inn. Diam. mm inch	Diam. Ext. Out. Diam. mm inch	P. S. Work. Press.		P. L. N. E. Max. Non Burst. Press.		Vide Vacuum %	RC - Bend. Radius				Poids Weight			
		bar	psi	bar	psi		Statique Static mm inch		Dynamique Dynamic mm inch		Kg/m	lb/f		
20	3/4"	31	1,220	10	145	30	435	90	40	1,6	120	4,7	0,68	0,46
25	1"	37	1,457	10	145	30	435	90	50	2,0	150	5,9	0,80	0,54
32	1 1/4"	44	1,732	10	145	30	435	90	60	2,4	190	7,5	1,00	0,67
38	1 1/2"	51	2,008	10	145	30	435	90	65	2,6	220	8,7	1,20	0,81
51	2"	65	2,559	10	145	30	435	90	85	3,3	300	11,8	1,76	1,18
63	2 1/2"	79	3,110	10	145	30	435	90	130	5,1	390	15,4	2,28	1,53
76	3"	90	3,543	10	145	30	435	80	220	8,7	450	17,7	3,00	2,02
102	4"	119	4,685	10	145	30	435	80	320	12,6	600	23,6	4,44	2,98
125	5"	147	5,787	10	145	30	435	80	600	23,6	750	29,5	7,30	4,91
150	6"	175	6,890	10	145	30	435	80	720	28,3	900	35,4	10,20	6,86
203	8"	229	9,016	6	87	18	261	80	980	38,6	1220	48,0	15,60	10,48

Informations techniques pour température ambiante (20°C) / *Technical information for ambient temperatures (70°F).*

POSSIBILITÉ DE RACCORDEMENT - CONNECTIONS AVAILABLE FOR ALL SIZES

- Par embouts sertis en inox 316L monoblocs (sans soudure) suivant système NRS® (Non Retention System).
The 316L stainless steel swaged fittings are monoblocs (without welding) in accordance with the NRS® design. Fittings are reusable.
- Par embouts et coquilles récupérables - *The hose can be supplied with fittings and reusable ferrules.*
- Tout type de raccordement possible à la demande de l'utilisateur : SMS, DIN, CLAMP, RJT, IDF, ISS, FIL, GAZ, NPT, JIC, BRIDES, ... - *All fittings available on request.*



TUYAU ALIMENTAIRE "DEPOTAL+" FOOD HOSE "DEPOTAL+"


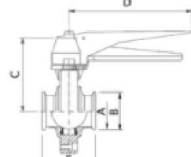
วาล์วผีเสื้อสามตำแหน่งแบบปรับได้ 304 และ 316L พร้อมด้ามจับแบบปรับได้ 12 ตำแหน่ง
BUTTERFLY VALVE, 304 AND 316L WITH ADJUSTABLE HANDLE 12 POSITION

วาล์วผีเสื้อสามตำแหน่งพร้อมด้ามจับแบบปรับได้ 12 ตำแหน่ง




SIZE	A	B	C	D	E
25	22.4	25.4	75	165	50
38	35.1	38.1	85	165	50
51	47.8	50.8	90	165	52
63.5	59.5	63.5	100	165	56
76	72.2	76.2	105	165	58
101.6	97.6	101.6	115	165	64

วาล์วผีเสื้อสามตำแหน่งพร้อมด้ามจับแบบปรับได้ 12 ตำแหน่ง







SIZE	A	B	C	D	E
25	22.4	50.5	75	165	66
38	35.1	50.5	85	165	70
51	47.8	64.0	90	165	76
63.5	59.5	77.5	100	165	80
76	72.2	91	105	165	84
101.6	97.6	119	117	165	104


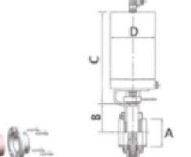
วาล์วผีเสื้อสามตำแหน่ง - มีวัสดุให้เลือก
ใช้ตามความต้องการ 3 ชนิด ดังนี้

- ซิลิโคน (SILICONE)
- อีพดีเอ็ม (EPDM)
- ไวตัน (VITON)

วาล์วผีเสื้อสามตำแหน่งพร้อมด้ามจับแบบปรับได้ 12 ตำแหน่ง


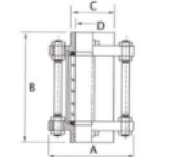
วาล์วผีเสื้อสามตำแหน่งพร้อมด้ามจับแบบปรับได้ 304 และ 316L BUTTERFLY VALVE WITH ACTUATOR, 304 AND 316L

SIZE	A	B	C	D
25	25.4	42	214.5	86
38	38.1	46	219.5	86
51	50.8	54	236.5	86
63.5	63.5	60.5	242	86
76	76.2	67	248.5	86
101.6	101.6	90	261.5	86

หมายเหตุ: วาล์วผีเสื้อสามตำแหน่งพร้อมด้ามจับแบบปรับได้ 304 และ 316L


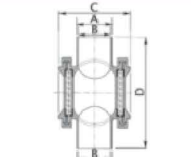
หลอดแก้วพร้อมฝาครอบป้องกัน, 316L SIGHT GLASS WITH PROTECTIVE GUARD, 316L

SIZE	A	B	C	D
25	78.0	140.0	25.4	22.6
38	96.0	140.0	38.1	35.6
51	102.0	142.0	50.8	48.0
63.5	115.0	146.0	63.5	60.3
76	124.0	146.0	76.2	72.9
101.6	154.0	154.0	101.6	97.6


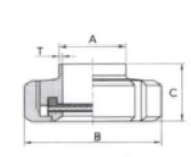
SS PROTECTIVE GUARD

หลอดแก้ว 4 ทางพร้อมฝาครอบป้องกัน, 316L 4-WAY SIGHT GLASS, 316L

SIZE	A	B	C	D
25	25.4	22.4	67	90
38	38.1	35.1	83	130
51	50.8	47.8	99	165
63.5	63.5	59.5	125	205
76	76.2	72.2	134	230
101.6	101.6	97.6	168	300

หลอดแก้วแบบยูเนียนพร้อมฝาครอบป้องกัน, 316L UNION TYPE SIGHT GLASS, 316L

SIZE	A	B	C	T
63.5	63.5	100.0	32	2.00
76	76.2	114.0	33	2.00

เครื่องวัดการไหลของเหลว, 316 FLOW METER, 316


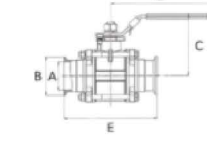



เพื่อวัดการไหลของเหลวที่มี "SABA", รุ่น SA/91 ที่ความดันสูงได้ถึง 100 บาร์. มีให้เลือกใช้ตามความต้องการ ดังนี้

- ขนาด 25 มม. : สเกล 100-1,000 ลิตร/ชม.
- ขนาด 38 มม. : สเกล 200-2,000, 300-3,000 ลิตร/ชม. และ 500-5,000 ลิตร/ชม.
- ขนาด 51 มม. : สเกล 500-5,000 และ 2,000-10,000 ลิตร/ชม.
- ขนาด 63.5 มม. : สเกล 2,500-25,000 ลิตร/ชม.
- ขนาด 76 มม. : สเกล 5,000-50,000 ลิตร/ชม.


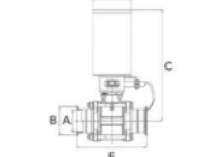
หมายเหตุ: สามารถเลือกชนิดของวัสดุได้ตามความต้องการ

บอลวาล์วสามชิ้นแบบพร้อมด้ามจับ, 304 และ 316L พร้อมด้ามจับแบบปรับได้
CLAMP THREE-PIECE NON-RETENTION BALL VALVE, 304 AND 316L WITH HANDLE

SIZE	A	B	C	D	E
13	9.7	25.4	76.5	165.0	89.0
19	16.1	25.4	76.5	165.0	89.0
25	22.4	50.5	80.0	165.0	114.0
38	35.1	50.5	94.0	170.0	140.0
51	47.8	64.0	102.5	170.0	156.0
63.5	59.5	77.5	120.0	240.0	197.0
76	72.2	91.0	130.0	240.0	221.0
101.6	97.6	119.0	154.0	255.0	241.0


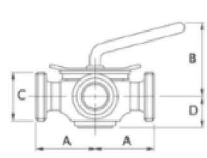
บอลวาล์วสามชิ้นพร้อมด้ามจับ, 304 และ 316L BALL VALVE WITH ACTUATOR, 304 AND 316L

SIZE	A	B	C	D	E
13	9.7	25.4	227.0	86.0	89.0
19	16.1	25.4	227.0	86.0	89.0
25	22.4	50.5	230.0	86.0	114.0
38	35.1	50.5	243.0	86.0	140.0
51	47.8	64.0	251.0	86.0	156.0
63.5	59.5	77.5	335.0	113.0	197.0
76	72.2	91.0	370.0	132.0	221.0
101.6	97.6	119.0	411.0	166.0	241.0


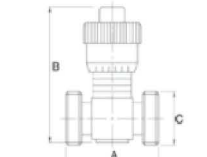
หมายเหตุ: วาล์วบอลสามชิ้นพร้อมด้ามจับ 304 และ 316L

วาล์วสามทางพร้อมด้ามจับ, 316L 3-WAY PLUG COCK, 316L


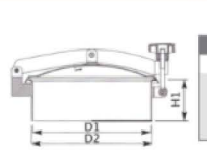
SIZE	A	B	C	D
25	62.5	90.0	40-6	38.0
38	80.0	117.0	60-6	45.0
51	85.0	122.0	70-6	55.0
63.5	100.0	142.0	85-6	68.0
76	115.0	154.0	98-6	71.0

วาล์วปรับการไหลพร้อมด้ามจับ, 316L FLOW CONTROL VALVE, 316L

SIZE	A	B	C
25	41.5	126.0	40-6
38	53.0	165.0	60-6
51	60.0	200.0	70-6
63.5	71.5	230.0	85-6
76	82.5	274.0	98-6


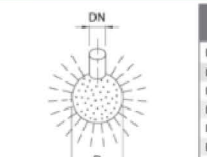
ฝาครอบคนhole แบบวงกลม, 304 และ 316L CIRCULAR MANHOLE COVER, 304 AND 316L

SIZE	H1	D1	D2
450	100	450	444


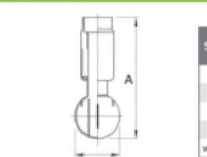
หมายเหตุ: HAND WHEEL ทำด้วยพลาสติก
ฝาปิดที่เชื่อมด้วยเทคนิคการเชื่อม, พร้อมด้ามจับ
สูงสุด 0.5 บาร์, ซีลที่ผลิตด้วย EPDM

สเปร์ยบอลทำความสะอาด, 316L สำหรับฉีดล้างถัง CLEANING BALL, 316L

SIZE	ถังความดัน	ปริมาณน้ำ
DN 13 x D 30 mm.	6,000 L/H	1.50 M.
DN 19 x D 40 mm.	6,000 L/H	1.50 M.
DN 25 x D 53 mm.	9,000 L/H	1.60 M.
DN 25 x D 65 mm.	9,000 L/H	1.60 M.
DN 38 x D 65 mm.	9,000 L/H	1.60 M.
DN 38 x D 90 mm.	12,900 L/H	2.00 M.
DN 51 x D 90 mm.	12,900 L/H	2.00 M.


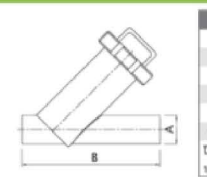
สเปร์ยบอลทำความสะอาดแบบหมุน, 316L สำหรับฉีดล้างถัง ROTARY CLEANING BALL, 316L

SIZE	A	B	ถังความดัน	ปริมาณน้ำ
25	82.0	28.0	3,000 L/H	1.30 M.
25	143.0	53.0	12,000 L/H	1.25 M.
38	145.0	53.0	12,000 L/H	1.25 M.
51	180.0	63.0	38,000 L/H	1.50 M.

หมายเหตุ: อัตราการไหลที่ระบุใน 2 บาร์

ตัวกรอง Y แบบสามทาง, 316L Y-TYPES STRAINER, 316L





SIZE	A	B
25	25.4	130
38	38.1	175
51	50.8	210
63.5	63.5	245
76	76.2	280
101.6	101.6	360

ใช้กรองมาตรฐานขนาด 1 มม. ที่ติดตั้งบนกระบอกกรอง 100 MESH


TUYAU ALIMENTAIRE "DEPOTAL+" FOOD HOSE "DEPOTAL+"

นิตตะเตนเลส , SMS , 304 **SMS NUT, 304**



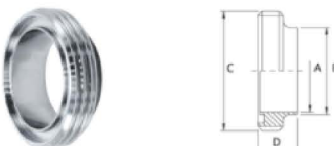
SIZE	A	B	C	D
25	32	51	RD 40 x 1/8"	19
38	48	74	RD 60 x 1/8"	23
51	60.5	84	RD 70 x 1/8"	24
63.5	74.0	100	RD 85 x 1/8"	28
76	87.0	114	RD 98 x 1/8"	30
101.6	113.0	138	RD 125 x 1/4"	31

นิตตะเตนเลส , DIN , 304 **DIN NUT, 304**




SIZE	A	B	C	D
25	63	21	RD 52 x 1/8	36
32	70	21	RD 58 x 1/8	42
40	78	21	RD 65 x 1/8	49
50	92	22	RD 78 x 1/8	62
65	112	25	RD 95 x 1/8	80
80	127	29	RD 110 x 1/4	94
100	148	31	RD 130 x 1/4	115

นิตตะเตนเลส , SMS , 304 และ 316L **SMS WELDING MALE PART, 304 AND 316L**




SIZE	A	B	C	D
25	22.5	25.4	RD 40 x 1/8"	19
38	35.5	38.1	RD 60 x 1/8"	23
51	48.5	50.8	RD 70 x 1/8"	23
63.5	60.5	63.5	RD 85 x 1/8"	27
76	72.9	76.1	RD 98 x 1/8"	27
101.6	97.6	101.6	RD 125 x 1/4"	30

นิตตะเตนเลส , DIN , 316L **DIN WELDING MALE PART, 316L**




SIZE	OD/ID x t	B	C
25	31/26 x 2.5	29	RD 52 x 1/8
32	37/32 x 2.5	32	RD 58 x 1/8
40	43/38 x 2.5	33	RD 65 x 1/8
50	55/50 x 2.5	35	RD 78 x 1/8
65	72/66 x 3	40	RD 95 x 1/8
80	87/81 x 3	45	RD 110 x 1/4
100	106/100 x 3	54	RD 130 x 1/4

นิตตะเตนเลส , SMS , 304 และ 316L **SMS WELDING LINER, 304 AND 316L**




SIZE	A	B	C	D
25	22.5	25.4	35.5	15.5
38	35.5	38.1	55	16
51	48.5	50.8	65	17
63.5	60.5	63.5	80	17
76	72.9	76.1	93	19
101.6	97.6	101.6	118	19

นิตตะเตนเลส , DIN , 316L **DIN WELDING LINER, 316L**



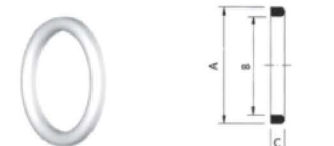
SIZE	OD/ID x t	B	C
25	31/26 x 2.5	22	44
32	37/32 x 2.5	25	50
40	43/38 x 2.5	26	56
50	55/50 x 2.5	28	68
65	72/66 x 3	32	86
80	87/81 x 3	37	100
100	106/100 x 3	44	121

ซิลิโคน , SMS , แบบ L-SHAPE , ทำด้วย SILICONE , EPDM , VITON **L-SHAPE SEAL FOR SMS UNION**



SIZE	A	B	C	D
25	25.4	32	5.5	
38	38.1	48	5.5	
51	50.8	61	5.5	
63.5	63.5	73.5	5.5	
76	76.2	86	5.5	
101.6	101.6	114	5.5	

ซิลิโคน , DIN , ทำด้วย SILICONE , EPDM , VITON **SEAL FOR DIN UNION**



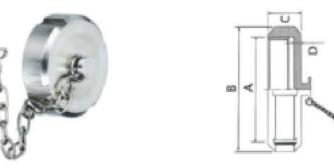
SIZE	A	B	C	D
25	40	30	5	
32	46	36	5	
40	52	42	5	
50	64	54	5	
65	81	71	5	
80	95	85	5	
100	114	104	5	

นิตตะเตนเลสครบชุด , 304 และ 316L **COMPLETE CLAMP SET, 304 AND 316L**



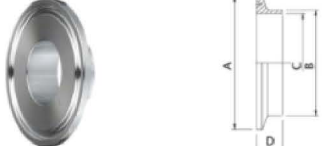
SIZE
13
19
25
38
51
63.5
76
101.6
152.4

นิตตะเตนเลสพร้อมโซ่เตนเลส , SMS , 316L **SMS BLANK NUT WITH CHAIN , 316L**



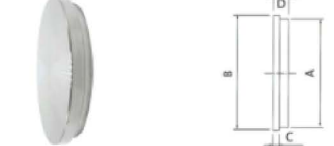
SIZE	A	B	C	D
25	RD 40 x 1/8"	51	19	3.5
38	RD 60 x 1/8"	74	23	4
51	RD 70 x 1/8"	84	24	4
63.5	RD 85 x 1/8"	100	28	4
76	RD 98 x 1/8"	114	30	4
101.6	RD 125 x 1/4"	138	31	4

นิตตะเตนเลส , 304 และ 316L **WELDING FERRULE, 304 AND 316L**



SIZE	A	B	C	D
13	25.4	12.7	8.7	12.7
19	25.4	19.1	16.1	12.7
25	50.5	25.4	22.4	12.7
38	50.5	38.1	35.1	12.7
51	64.0	50.8	47.8	12.7
63.5	77.5	63.5	60.2	12.7
76	91.0	76.2	72.9	12.7
101.6	119.0	101.6	97.6	15.8
152.4	168.8	152.4	146.8	22.2

นิตตะเตนเลสแบบนิตตะเตนเลส , SMS , 316L **SMS BLANK LINER, 316L**




SIZE	A	B	C	D
25	31.2	35.5	3.5	7
38	47	55.5	5.0	8
51	59.5	65.5	5.0	8
63.5	73	80	5.0	8
76	86	93	5.0	8
101.6	112	118	6.0	10

นิตตะเตนเลส , 304 **HEAVY DUTY CLAMP, 304**




SIZE	A	B	C	D
13	28.6			
19	28.6			
25	53.9			
38	53.9			
51	67.4			
63.5	80.9			
76	94.4			
101.6	122.4			
152.4	170.4			

นิตตะเตนเลสแบบนิตตะเตนเลส , 304 และ 316L **CLAMP BLANK END CAP, 304 AND 316L**



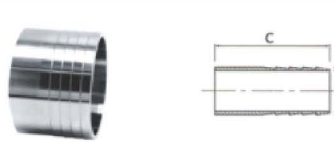
SIZE	A	B	C	D
13	25.4	4.0		
19	25.4	4.0		
25	50.5	6.35		
38	50.5	6.35		
51	64	6.35		
63.5	77.5	6.35		
76	91	6.35		
101.6	119	7.90		

ซิลิโคนทำด้วย SILICONE , EPDM , VITON **SEAL FOR CLAMP**



SIZE	A	B	C	D
13	21.8	5.0	25.4	
19	21.8	5.0	25.4	
25	43.5	5.5	90.9	
38	43.5	5.5	50.3	
51	56.5	5.5	64.0	
63.5	70.5	5.5	77.5	
76	83.5	5.5	91.0	
101.6	110.0	5.5	119.0	
152.4	196.4	5.5	166.8	

นิตตะเตนเลสทำด้วยนิตตะเตนเลส , 316L **WELD HOSE NIPPLE, 316L**



SIZE	A	B	C
25	25.4	20.6	30.3
38	38.1	33.2	30.3
51	5.08	46	36.5
63.5	63.5	58.7	37.5
76	76.2	71	56.5
101.6	101.6	96	63.5



บริษัท โฟลว์ เอ็นจิเนียริ่ง แอนด์ เซอร์วิส จำกัด
เลขประจำตัวผู้เสียภาษี 0215558003632 (สำนักงานใหญ่)

55/89 หมู่ที่ 5 ต.ทับมา อ.เมืองระยอง
จ.ระยอง 21000

โทร : 082 415 6491

E-mail: sales@flowengineering.net

website: www.flowengineering.net

Flow Engineering and Service Co.,Ltd.