



PENTAIR

**STRUCTURAL**  
PRESSURE VESSELS'  
ACCESSORIES & SPARE PARTS





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## MATERIALS

### POLYMERS

#### POLYETHYLENE (PE)

PE is the material used for the inner lining of standard Structural vessels and some closures and adaptors found in this catalogue.

Typical properties:

- Lightweight
- High toughness and elongation before break
- Very low water absorption & permeability
- High resistance to attack by chemicals
- Resistance to environmental stress cracking

#### POLYPROPYLENE (PP)

Injection molded material for standard laterals, hubs and hub adaptors

Typical properties:

- Similar properties as PE
- Higher temperature resistance than PE
- PP is Brittle when cold (below 10°C) (take care during cold assembly).

#### GLASSFIBER REINFORCED POLYPROPYLENE (PP-GF)

Injection molded material for high temperature laterals, hub adaptors. PP-GF has much higher stiffness than normal PP.

#### POLYPHENYLENEOXIDE (PPO)

Injection molded material for typical flanges and flanged closures. PPO is used as a 30% glass-filled product.

Typical properties:

- High dimensional stability
- High temperature resistance (up to 99°C)
- Good resistance to hydrolysis
- Self extinguishing, non-dripping
- Low water absorption

#### POLYVINYLIDENEFLUORIDE (PVDF)

Linings and components for ultra pure applications. PVDF is a high-grade technical polymer with excellent (chemical) properties.

Typical properties:

- High Toughness and elongation before break at high and low temperatures.
- Very high resistance to attack by most chemicals
- Suitable for ultra pure applications
- High mechanical strength.



#### POLYVINYLCHLORIDE (PVC)

Widely used polymer for water transportation systems, but also other applications. PVC is one of the world most used plastics. Structural uses PVC in some machined and injection molded parts of the distribution systems.

Typical properties:

- High mechanical strength, rigidity and hardness
- Low cold impact strength
- High chemical resistance
- Self extinguishing after removing ignition source

#### GLASSFIBER REINFORCED EPOXY (EP-GF)

Thermosetting material with a very high strength. Up to 60% glass-filled this plastic approaches the strength of aluminium, but has an even greater strength to weight ratio. It is not intended to come in contact with the contents of the vessel and is used as a reinforcing element only.

Typical properties:

- Very high strength & durability
- Structure elements only



## RUBBERS/ELASTOMERS

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### ACRYLONITRILE BUTADIENE (NBR)

General purpose rubber compound

### ETHYLENE-PROPYLENE-DIENE TERPOLYMER (EPDM)

Rubber compound with a better chemical and thermal resistance than standard NBR grade.

### FLUOR-CARBON ELASTOMER (FPM)

Special grade (Viton ®) for specific applications. Suitable for most Ultra Pure or highly corrosive applications.



### TETRAFLUORETHYLENE/ HEXAFLUOROPROPYLENE (FEP)

Very high performance O-ring material. FEP seals are in fact made of a FPM inner core providing the necessary flexibility, enveloped by a seamless Teflon ® (PFA) cover.

Used where chemical, toxicological and thermal properties are of the utmost importance.



## METALS

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### STAINLESS STEEL (SS)

All bolts are made of A2 (1.4303-1.4301-1.4541) grade stainless steel, all nuts, washers, spring washers etc. are grade A4 (1.4401-1.4571).

### ALUMINIUM (AL)

Lightweight and corrosion resistant metal for construction of the flanges that are built in STRUCTURAL pressure vessels

For specific chemical resistance of one or more materials and agents, please contact our sales department. We will be happy to give advise. Please specify the chemical exactly, along with its concentration & temperature.



## USER GUIDE

### WHAT IS WHAT

1

14" - 16" - 18"

2



6" FLANGE

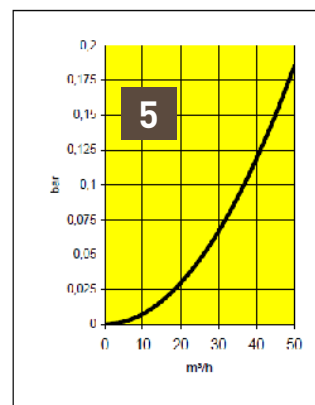
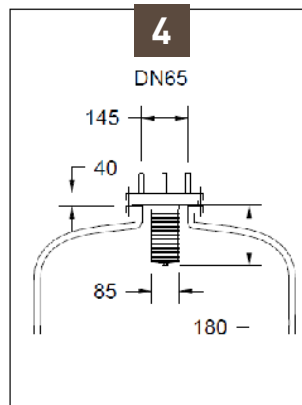
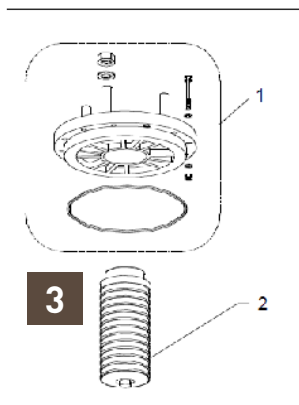
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8

7

DN65



9



0.2



10

Item	Description	11	Dimensions	Quantity	Matière	N° d'article	
1	Adaptor		6" - DN65	1	PP	A-3100-02C	A-3100-02C
2	Diffusor		2.5" - 180mm	1	PP	A-2740--	A-2746--
						<b>A-2727-F6</b>	<b>A-2527-F6</b>

12



1

13

1	Diameter of vessel	8	System connection
2	Vessel connection	9	Type of lateral connection
3	Exploded View	10	Lateral slot size
4	Dimensions	11	Spare parts list
5	Pressure drop curve	12	Minimum order quantity
6	Operating temperature	13	Codes
7	Type of installation		



## SYMBOLS & ICONS



Bajonet system



Threaded system



Slotsize of 0.2 mm



Slotsize of 0.3 mm



Slotsize of 0.5 mm



Slotsize of 12 mm



System or component for flanged vessels



System or component for threaded vessels



Threaded or flanged closures



Threaded or flanged adapters



Drain inserts



Tools and assembly aids



System for installation in top of flanged vessel



System for installation in bottom of flanged vessel



System for installation in topflanged vessel



System or component suitable from 1°C up to 50°C



System or component suitable from 1°C up to 65°C



System or component suitable from 1°C up to 99°C



Outward system connection



Adaptor function from ... to ...



Glue connection



Spare parts



System or component suitable for ultra



Maximum torque specification



Minimum order quantity



System for installation in top of threaded



System for installation in bottom of threaded vessel



System for installation in topthreaded vessel



System for installation in topflanged vessel with sidehole





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# INTRODUCTION

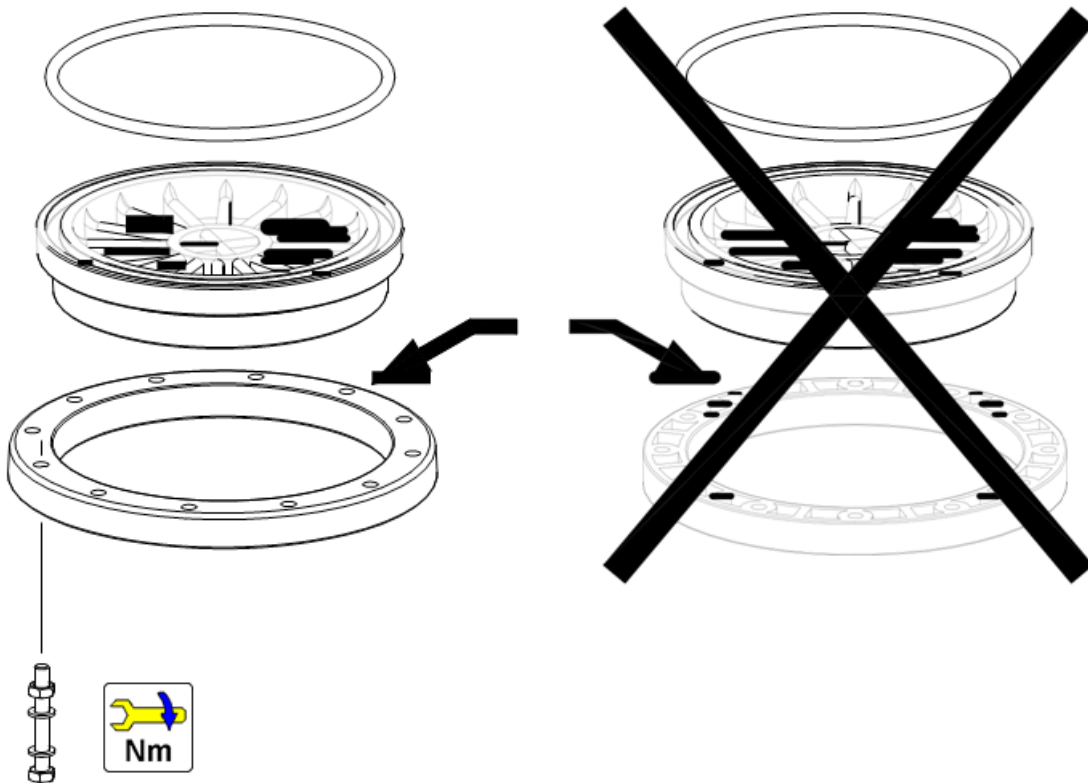


## INSTRUCTION

### INSTALLATION INSTRUCTIONS

- Please check parts on transport damage prior to assembly and installations.
- Protect the components from freezing 0°C (32°F).
- Pre-heating of the parts in warm water is recommended for assemblies below 10°C (50°F).
- Maximum torque to 5 Nm (3,69 ft.-lbs).

### FLANGE ASSEMBLY





**PENTAIR**

# INTRODUCTION



## ASSEMBLY



Step 1: Unassembled parts with extension I-WR03-LA.



Step 2: Parts shown in Step 1 are assembled (outside of tank) and inserted in tank using extension I-WR03-LA.



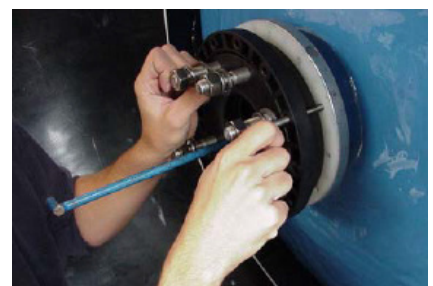
Step 3: Put assembly inside the tank to mount laterals.



Step 4: Screw all laterals in hub while still holding extension.



Step 5: Screw flange adaptor on assembly. Be sure O-ring is attached and sealed properly to adaptor.



Step 6: Use backing flange to connect distribution system to 6" flange. Now remove extension.

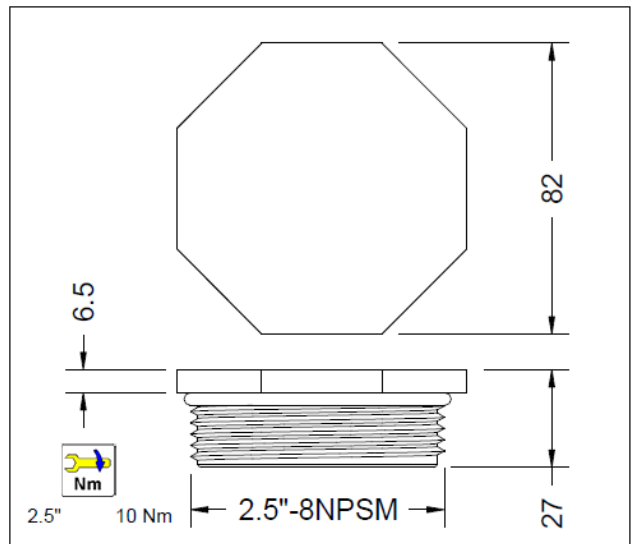
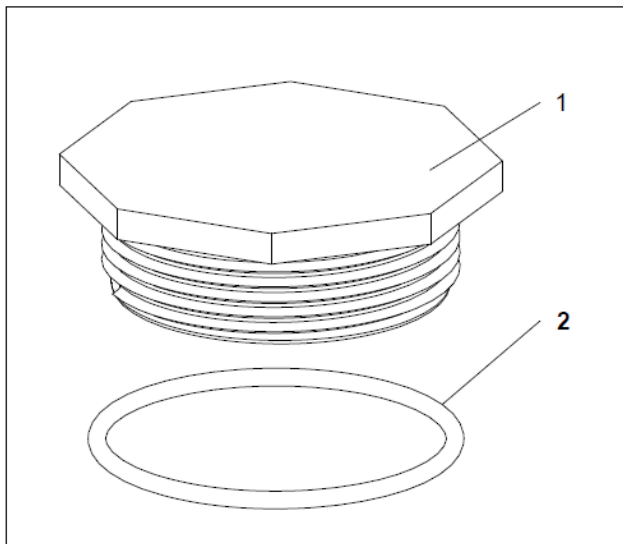
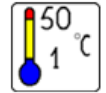
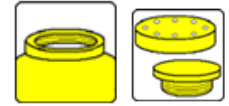



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# CLOSURES & ADAPTER



## 2.5" THREAD

2.5"-8NPSM

Item	Description	Dimensions	Quantity	Material	Part number
1	Closure	2.5" -8NPSM	1	PVC	A-2751-1
2	O-ring	66.27 x 3.53 mm	1	NBR	A-2694-1

**CH2751-1**



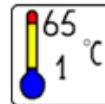
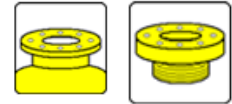


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## CLOSURES & ADAPTER



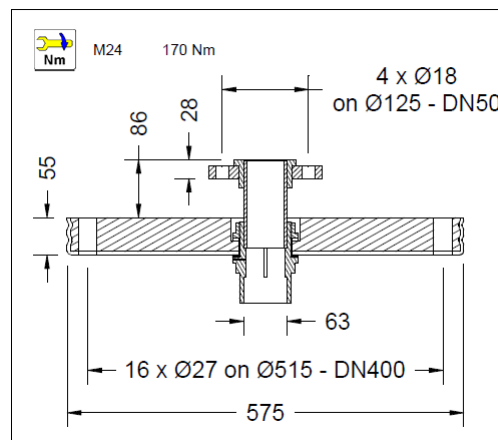
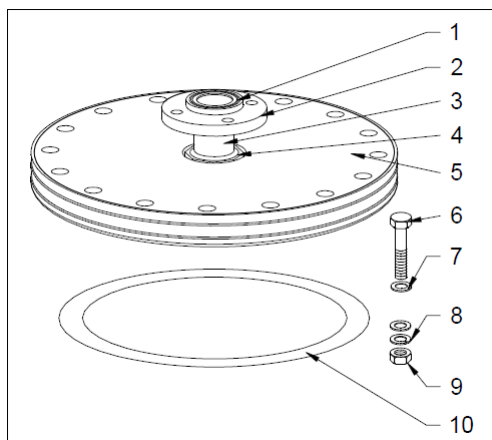
### DN 400



DN400



DN50



DN400 - DN50

Item	Description	Dimensions	Quantity	Material	Part number
1	Flange Adapter	DN50 - 63 mm	1	PVC	A-3720-64
2	Flange	DN50	1	PP-GF	X-1V-IPN1
3	Pipe	63 - 178 mm	1	PVC	A-PVC-063
4	Table Duct	63 mm	1	PVC	A-5160-65C
5	Flange	DN400	1	LLDPE/GR-EP	A-MACH-DN400
6	Bolt	M24 x 130	16	SS	A-M24-130
7	Washer	M24	32	SS	A-M24-RON
8	Spring Washer	M24	16	SS	A-M24-VRO
9	Nut	M24	16	SS	A-M24-A4
10	Flat Seal	DN400	1	NBR	A-DN40-0D



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**A-3400-02C**



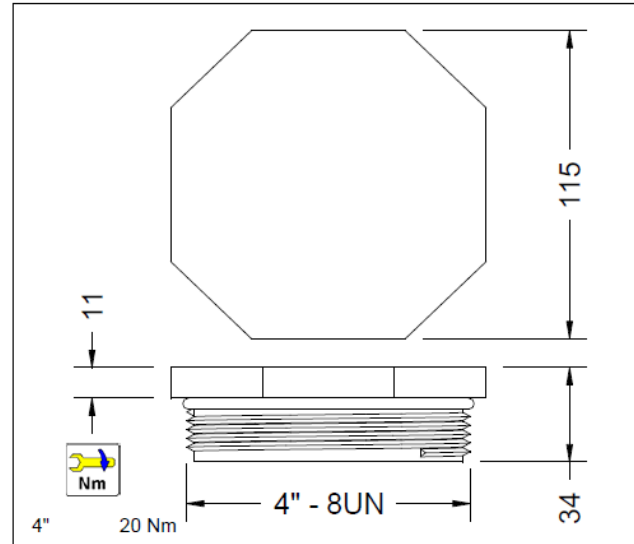
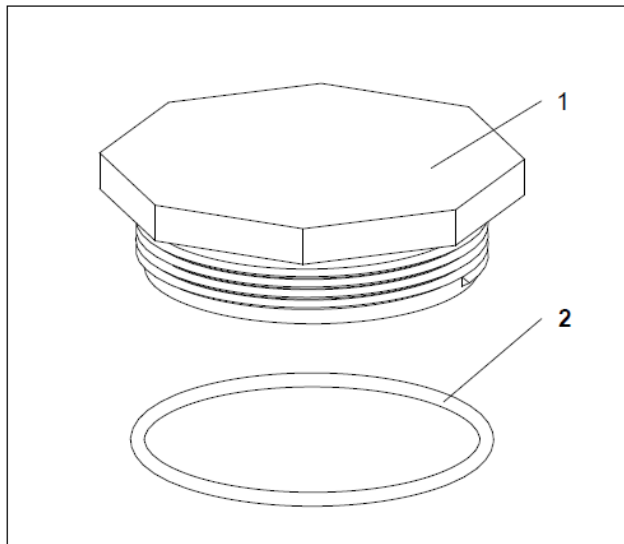
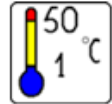
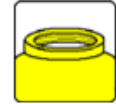


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# CLOSURES & ADAPTER



## 4" THREAD




4" - 8 UN

Item	Description	Dimensions	Quantity	Material	Part number
1	Closure	4"-8UN	1	PVC	A-2752-1
2	O-ring	98 x 4 mm	1	NBR	A-2694-3



1

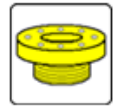
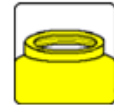


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# CLOSURES & ADAPTER



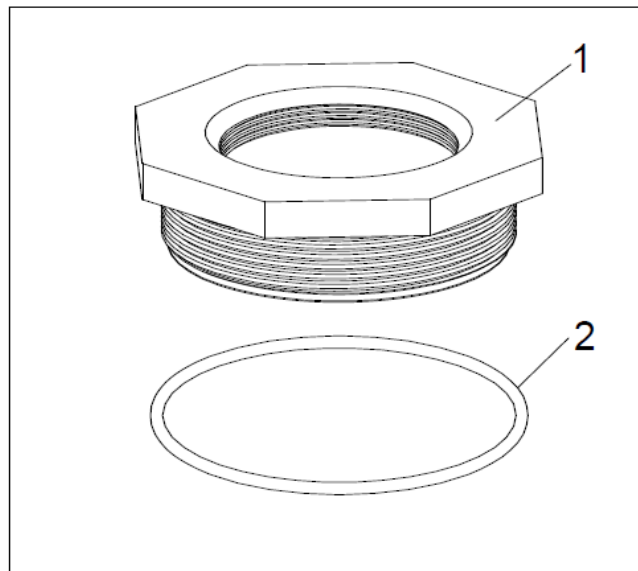
## 4" THREAD



4"-8UN



2 1/2"-8NPSM



4" 20Nm



4" - 8 UN

Item	Description	Dimensions	Quantity	Material	Part number
1	Closure	4"-8UN	1	PVC	A-2752-2
2	O-ring	98 x 4 mm	1	NBR	A-2694-3
					<b>A-2752-2C</b>



1

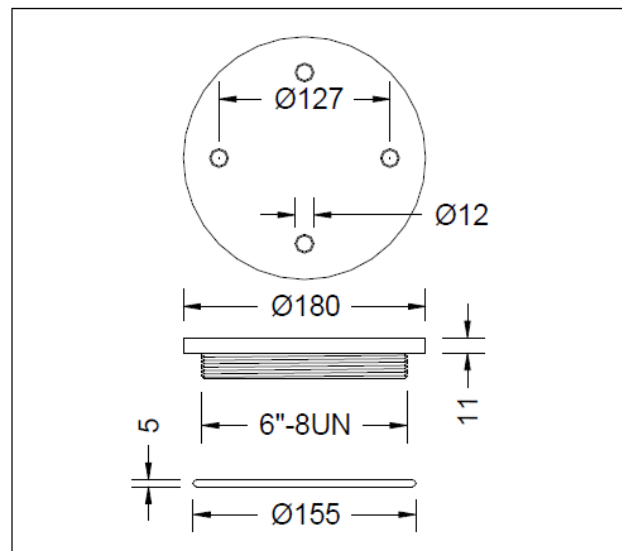
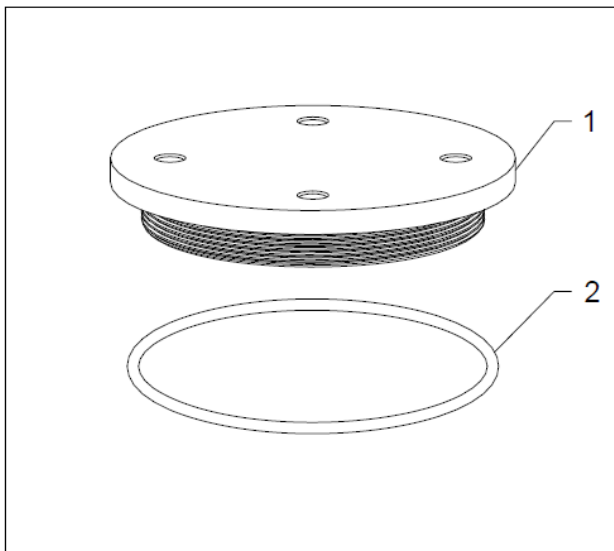
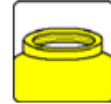


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# CLOSURES & ADAPTER



## 6" THREAD



6" - 8 UN

Item	Description	Dimensions	Quantity	Material	Part number
1	Closure	6"-8UN	1	C-PVC	A-2695-3F
2	O-ring	155 x 5 mm	1	NBR	A-2694-BF
					<b>A-2695-3FC</b>



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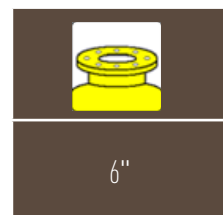
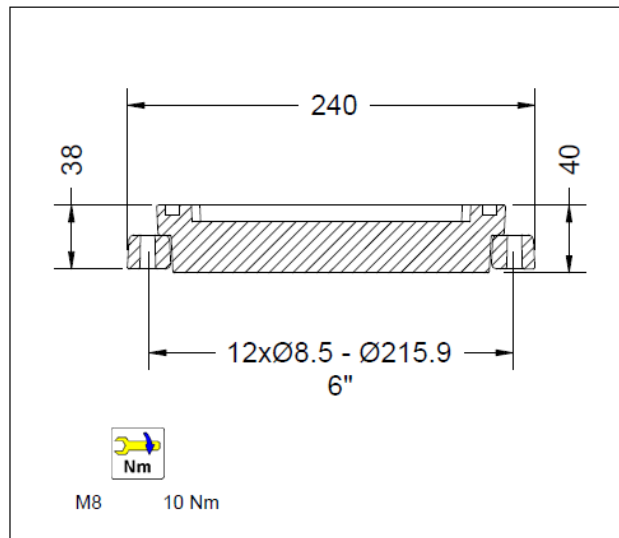
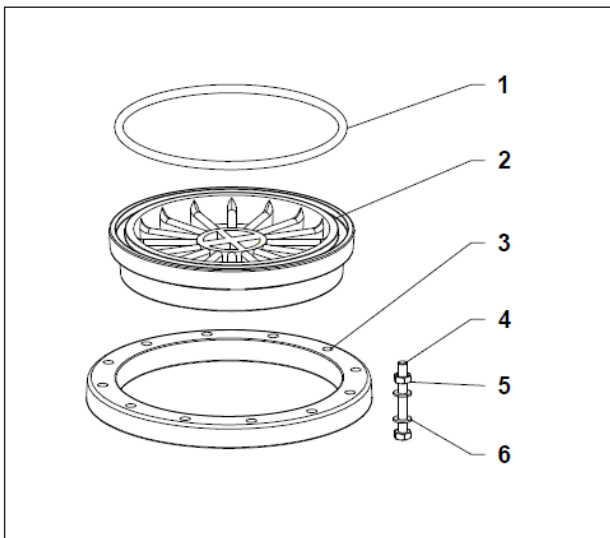
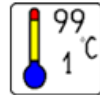
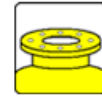


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# CLOSURES & ADAPTER



## 6" FLANGE



6"

Item	Description	Dimensions	Quantity	Material	Part number
1	O-ring	183.52 x 6.99 mm	1	NBR	A-2694-8F
2	Closure	6"	1	PPO	A-085-0006
3	Backing Flange	6"	1	PPO	A-085-0221
4	Bolt	M8 x 75	12	SS	A-M8-075
5	Nut	M8	12	SS	A-M8-A4
6	Washer	M8	24	SS	A-M8-RON



**A-3100-01C**

1



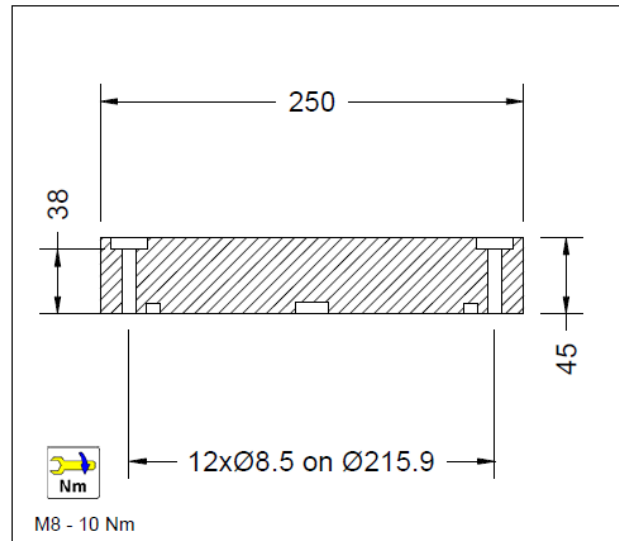
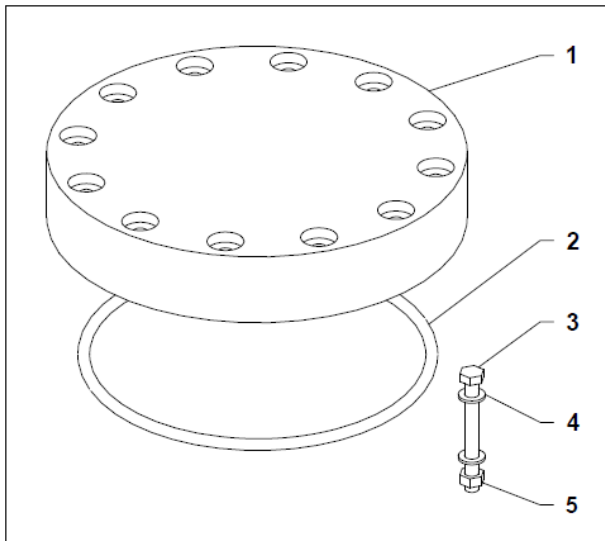
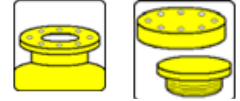






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# CLOSURES & ADAPTER



## 6" FLANGE



	 HDPE	 PVDF
	 50 1 °C	 99 1 °C
<b>A-3100-ALC</b>	<b>A1-3100-ALC</b>	<b>A1-3100-ALC</b>

Item	Description	Dimensions	Quantity	Material
1	Closure	6"	1	
2	O-ring	183.52 x 6.99 mm	1	FPM
3	Bolt	M8 x 75	12	SS
4	Washer	M8	24	SS
5	Nut	M8	12	SS





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# CLOSURES & ADAPTER



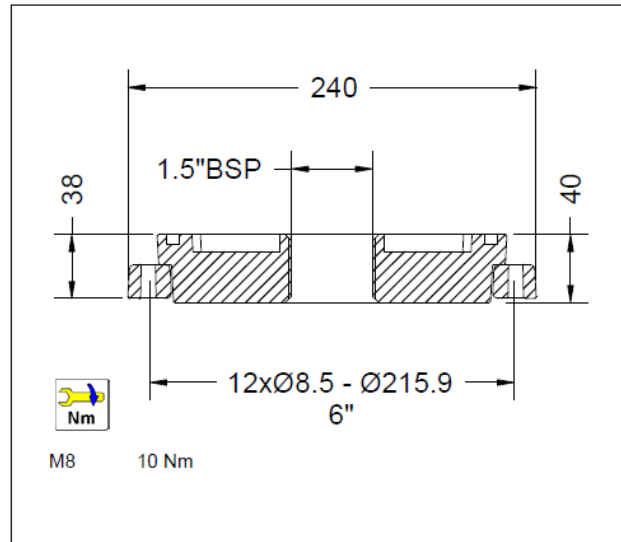
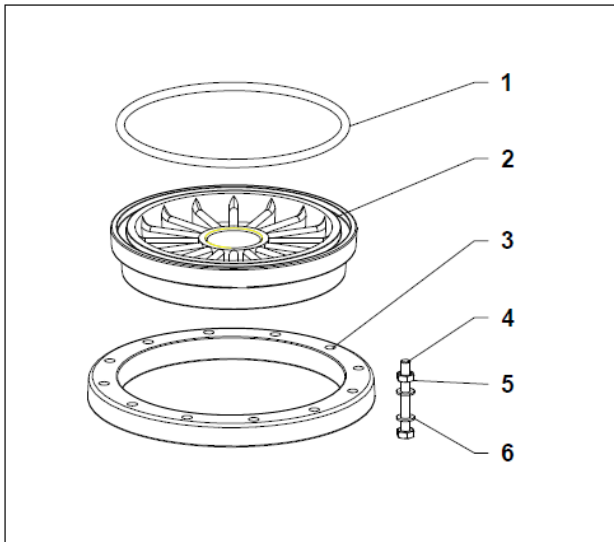
## 6" FLANGE



6" FLANGE  
1.5" BSP



1.5" BSP



6" - 1.5" BSP

Item	Description	Dimensions	Quantity	Material	Part number
1	O-ring	183.52 x 6.99 mm	1	NBR	A-2694-8F
2	Adapter	6" - 1.5"BSP	1	PPO	A-085-0007
3	Backing Flange	6"	1	PPO	A-085-0221
4	Bolt	M8 x 75	12	SS	A-M8-075
5	Nut	M8	12	SS	A-M8-A4
6	Washer	M8	24	SS	A-M8-RON



1

**A-3100-06C**

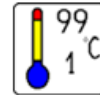
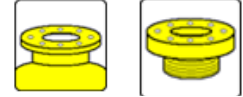


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# CLOSURES & ADAPTER



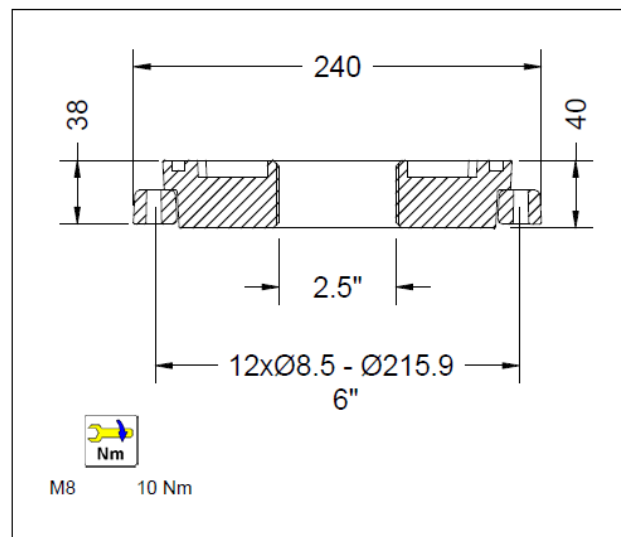
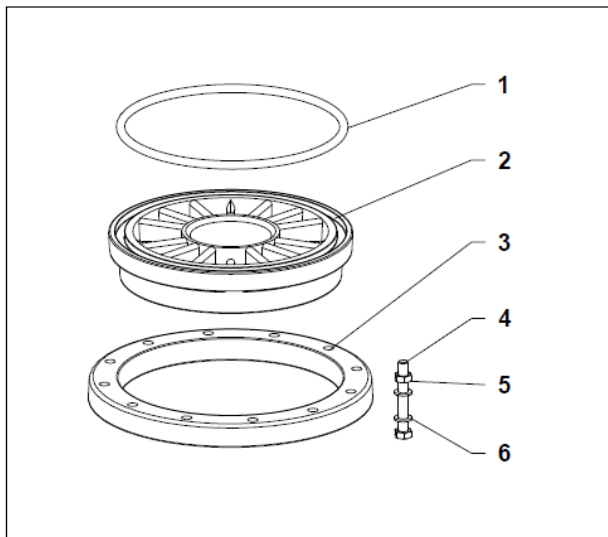
## 6" FLANGE



6" FLANGE  
2.5"-8 NPSM



2.5" 8 NPSM



6" - 2.5"

Item	Description	Dimensions	Quantity	Material	Part number
1	O-ring	183.52 x 6.99 mm	1	NBR	A-2694-8F
2	Adapter	6" - 2.5"	1	PPO	A-085-0009
3	Backing Flange	6"	1	PPO	A-085-0221
4	Bolt	M8 x 75	12	SS	A-M8-075
5	Nut	M8	12	SS	A-M8-A4
6	Washer	M8	24	SS	A-M8-RON

**A-3100-07C**



1

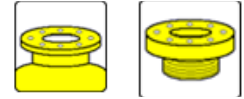


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# CLOSURES & ADAPTER



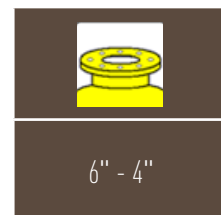
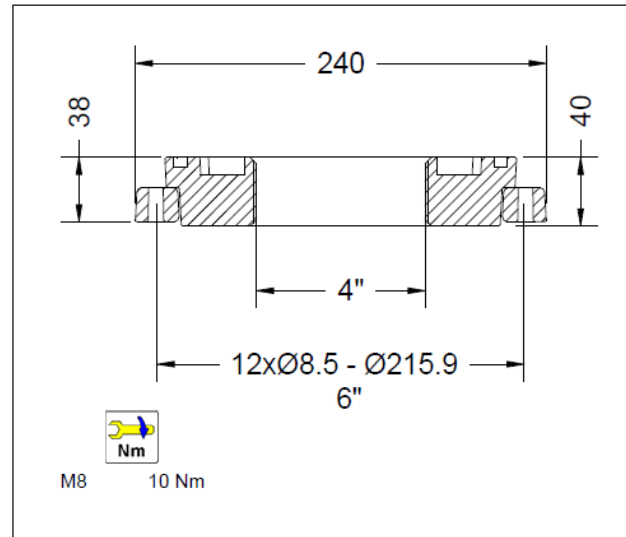
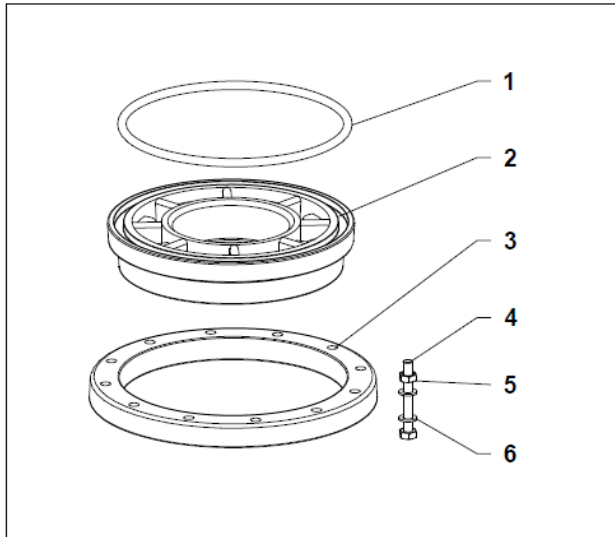
## 6" FLANGE



6" FLANGE  
4" - 8 UN



4" - 8 UN



Item	Description	Dimensions	Quantity	Material	Part number
1	O-ring	183.52 x 6.99 mm	1	NBR	A-2694-8F
2	Adapter	6" - 4"	1	PPO	A-085-0101
3	Backing Flange	6"	1	PPO	A-085-0221
4	Bolt	M8 x 75	12	SS	A-M8-075
5	Nut	M8	12	SS	A-M8-A4
6	Washer	M8	24	SS	A-M8-RON



1

**A-3100-08C**



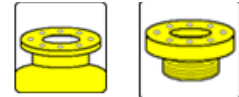


**PENTAIR**

# CLOSURES & ADAPTER



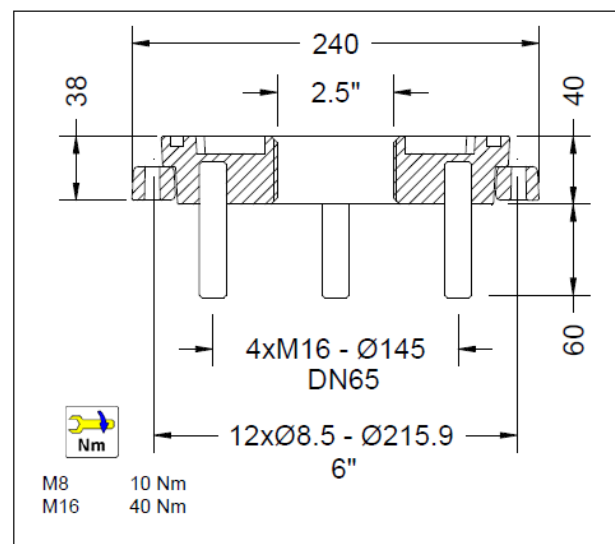
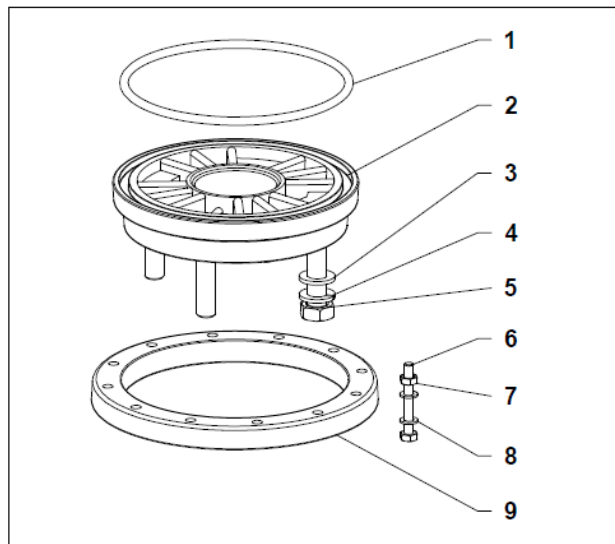
## 6" FLANGE



6" FLANGE  
2.5" - 8 UN



DN 65



6" - DN65 - 2.5"

Item	Description	Dimensions	Quantity	Material	Part number
1	O-ring	183.52 x 6.99 mm	1	NBR	A-2694-8F
2	Adapter	6" - DN65	1	PPO	A-086-0000
3	Washer	M16	4	SS	A-M16-RON
4	Spring Washer	M16	4	SS	A-M16-VRO
5	Nut	M16	4	SS	A-M16-A4
6	Bolt	M8 x 75	12	SS	A-M8-075
7	Nut	M8	12	SS	A-M8-A4
8	Washer	M8	24	SS	A-M8-RON
9	Backing Flange	6"	1	PPO	A-085-0221



1

**A-3100-02C**

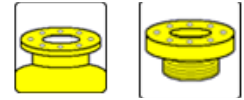


PENTAIR

# CLOSURES & ADAPTER



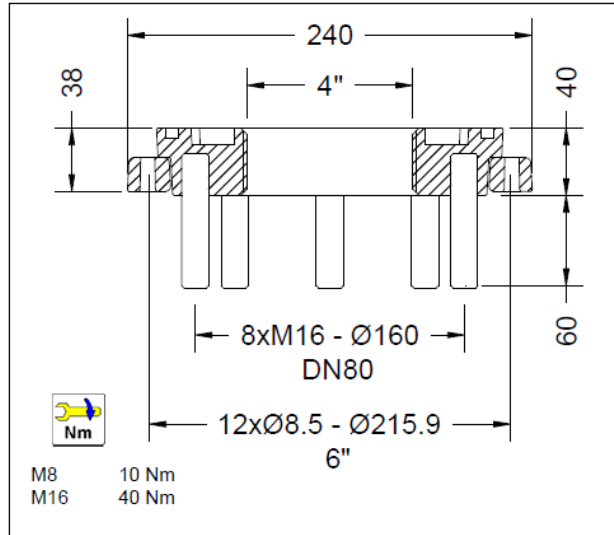
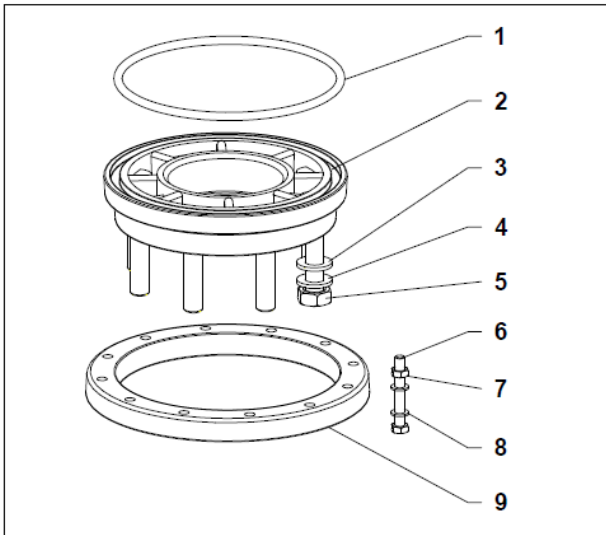
## 6" FLANGE



6" FLANGE  
4" - 8 UN



DN 80



Item	Description	Dimensions	Quantity	Material	Part number
1	O-ring	183.52 x 6.99 mm	1	NBR	A-2694-8F
2	Adapter	6" - DN80	1	PPO	A-086-0003
3	Washer	M16	8	SS	A-M16-RON
4	Spring Washer	M16	8	SS	A-M16-VRO
5	Nut	M16	8	SS	A-M16-A4
6	Bolt	M8 x 75	12	SS	A-M8-075
7	Nut	M8	12	SS	A-M8-A4
8	Washer	M8	24	SS	A-M8-RON
9	Backing Flange	6"	1	PPO	A-085-0221



**A-3100-03C**

1

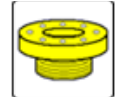
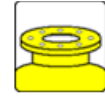


PENTAIR

# CLOSURES & ADAPTER



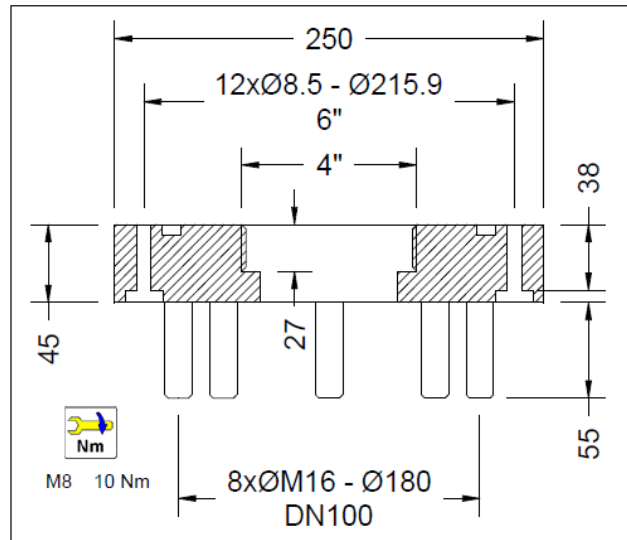
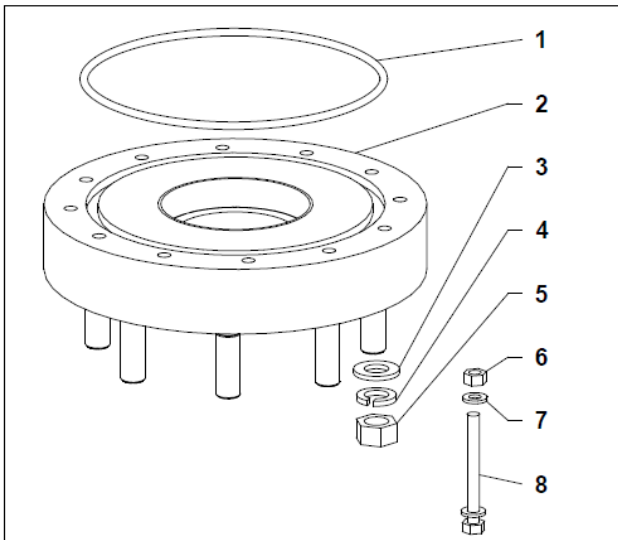
## 6" FLANGE



6" FLANGE  
4" - 8 UN



DN 100



6"-DN100-4"

Item	Description	Dimensions	Quantity	Material	Part number
1	O-ring	183.52 x 6.99 mm	1	NBR	A-2694-8F
2	Adapter	6" - DN100	1	PPO	A-3100-100
3	Washer	M16	8	SS	A-M16-RON
4	Spring Washer	M16	8	SS	A-M16-VR0
5	Nut	M16	8	SS	A-M16-A4
6	Nut	M8	12	SS	A-M8-A4
7	Washer	M8	24	SS	A-M8-RON
8	Bolt	M8	12	SS	A-M8-075



1

**A-3100-09C**

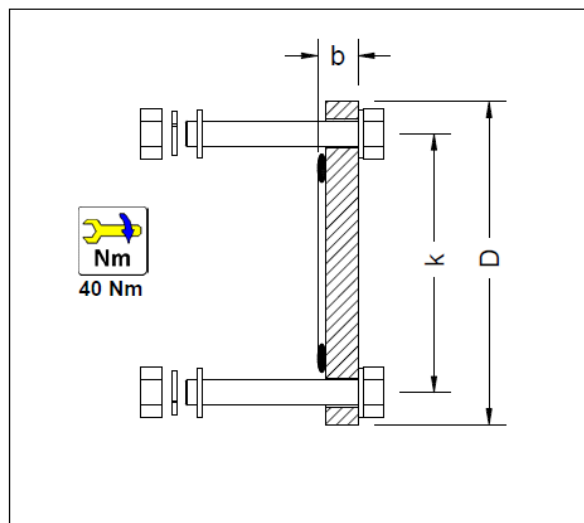
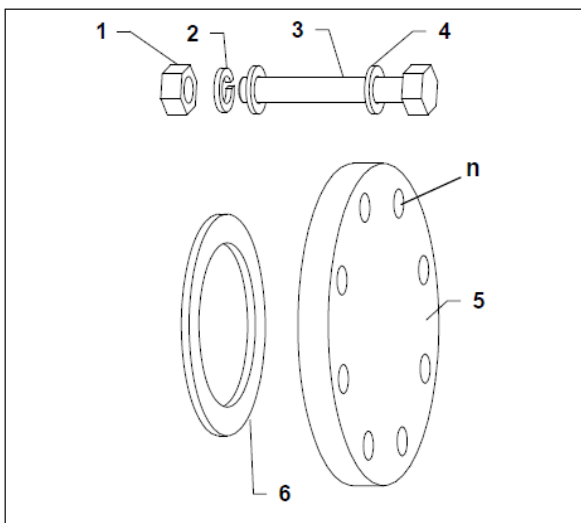
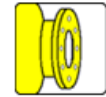


# PENTAIR

## CLOSURES & ADAPTER



### BLINDFLANGE



Item	Description	Material	DN50	DN80	DN100	DN200
1	Nut	SS	A-M16-A4	A-M16-A4	A-M16-A4	A-M20-A4
2	Spring Washer	SS	A-M16-VRO	A-M16-VRO	A-M16-VRO	A-M20-VRO
3	Bolt	SS	A-M16-90	A-M16-90	A-M16-90	A-M20-120
4	Washer	SS	A-M16-RON	A-M16-RON	A-M16-RON	A-M20-RON
5	Blind Flange	PP-GF/PVC	AG-DN-50B	AG-DN-80B	AG-DN-10B	A6-DN20-PPGF
6	Seal	NBR	A-2600-68	A-2600-71	A-2600-67	A-DN20-0D
			4	8	8	8
			19	19	20	46
			145	160	180	295
			185	200	220	340
			<b>AG-DN-50L</b>	<b>AG-DN-80L</b>	<b>AG-DN-10L</b>	<b>A-3200-01C</b>





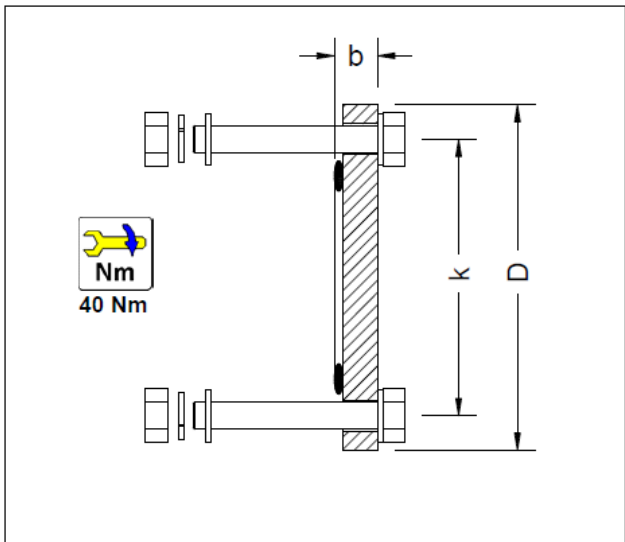
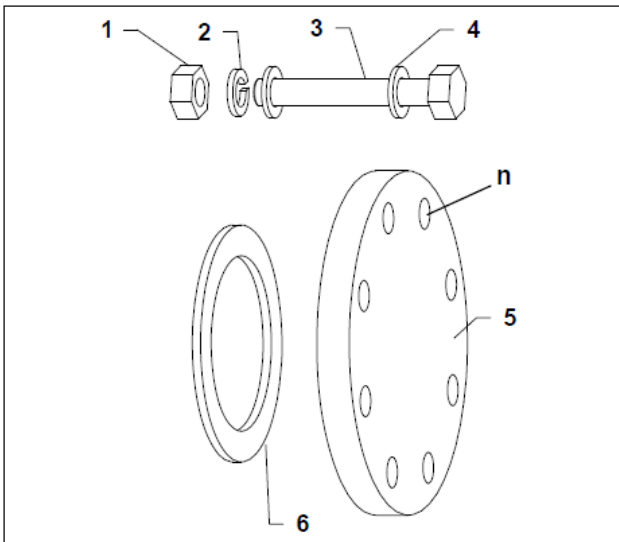


PENTAIR

# CLOSURES & ADAPTER



## BLINDFLANGE



Item	Description	Material	DN50	DN80	DN100	DN200
1	Nut	SS	A-M16-A4	A-M16-A4	A-M16-A4	A-M20-A4
2	Spring Washer	SS	A-M16-VRO	A-M16-VRO	A-M16-VRO	A-M20-VRO
3	Bolt	SS	A-M16-90	A-M16-90	A-M16-90	A-M20-120
4	Washer	SS	A-M16-RON	A-M16-RON	A-M16-RON	A-M20-RON
5	Blind Flange	PP-GF/PVC	AG-DN-50B	AG-DN-80B	AG-DN-10B	A-3742-00
6	Seal	NBR	A-2600-68	A-2600-71	A-2600-67	A-DN20-0D
			4	8	8	8
			19	19	20	46
			145	160	180	295
			185	200	220	340
			<b>AG-DN-50L</b>	<b>AG-DN-80L</b>	<b>AG-DN-10L</b>	<b>A-3200-01C</b>



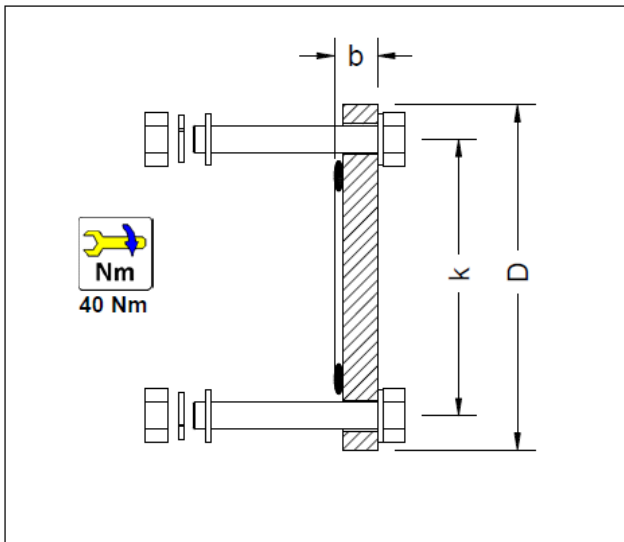
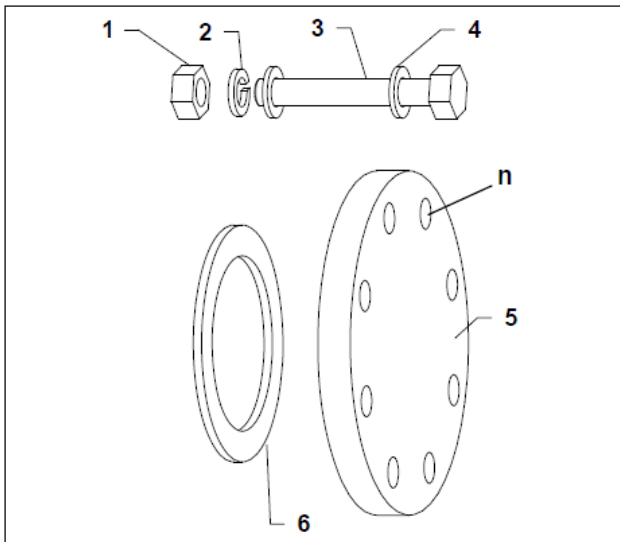
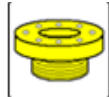


PENTAIR

# CLOSURES & ADAPTER



## BLINDFLANGE



Item	Description	Material	DN50	DN80	DN100	DN200
1	Nut	SS	A-M16-A4	A-M16-A4	A-M16-A4	A-M20-A4
2	Spring Washer	SS	A-M16-VRO	A-M16-VRO	A-M16-VRO	A-M20-VRO
3	Bolt	SS	A-M16-90	A-M16-90	A-M16-90	A-M20-120
4	Washer	SS	A-M16-RON	A-M16-RON	A-M16-RON	A-M20-RON
5	Blind Flange	PP-GF/PVC	AG-DN-50B	AG-DN-80B	AG-DN-10B	A-3742-00
6	Seal	NBR	A-2600-68	A-2600-71	A-2600-67	A-DN20-0D
			4	8	8	8
			19	19	20	46
			145	160	180	295
			185	200	220	340
			<b>AG-DN-50L</b>	<b>AG-DN-80L</b>	<b>AG-DN-10L</b>	<b>A-3200-01C</b>



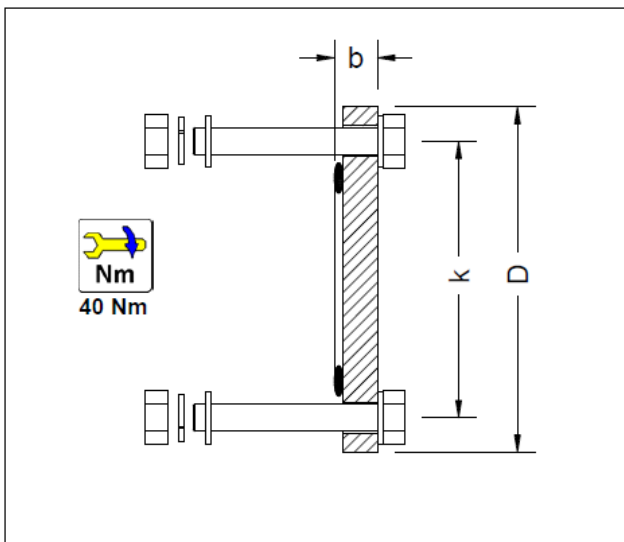
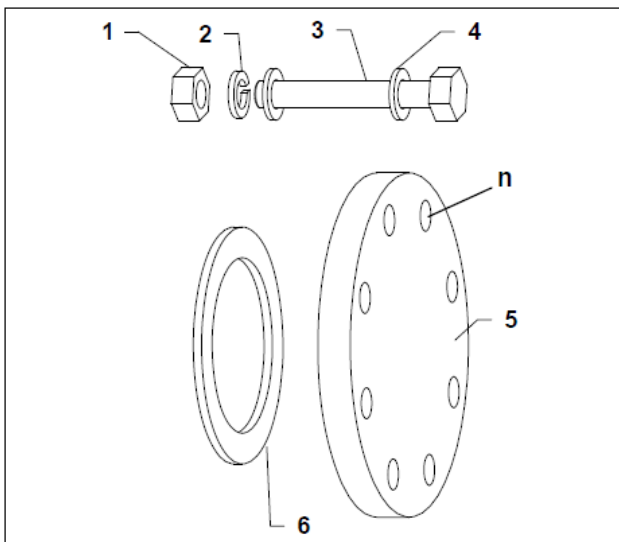
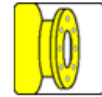



PENTAIR

# CLOSURES & ADAPTER



## BLINDFLANGE



Item	Description	Material	DN50	DN80	DN100	DN200
1	Nut	SS	A-M16-A4	A-M16-A4	A-M16-A4	A-M20-A4
2	Spring Washer	SS	A-M16-VRO	A-M16-VRO	A-M16-VRO	A-M20-VRO
3	Bolt	SS	A-M16-90	A-M16-90	A-M16-90	A-M20-120
4	Washer	SS	A-M16-RON	A-M16-RON	A-M16-RON	A-M20-RON
5	Blind Flange	PP-GF/PVC	AG-DN-50B	AG-DN-80B	AG-DN-10B	A-3742-00
6	Seal	NBR	A-2600-68	A-2600-71	A-2600-67	A-DN20-0D
 <b>1</b>			4	8	8	8
			19	19	20	46
			145	160	180	295
			185	200	220	340
			<b>AG-DN-50L</b>	<b>AG-DN-80L</b>	<b>AG-DN-10L</b>	<b>A-3200-01C</b>

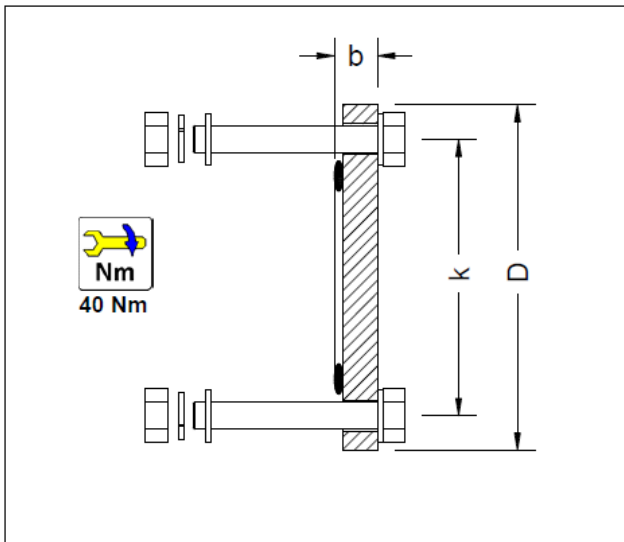
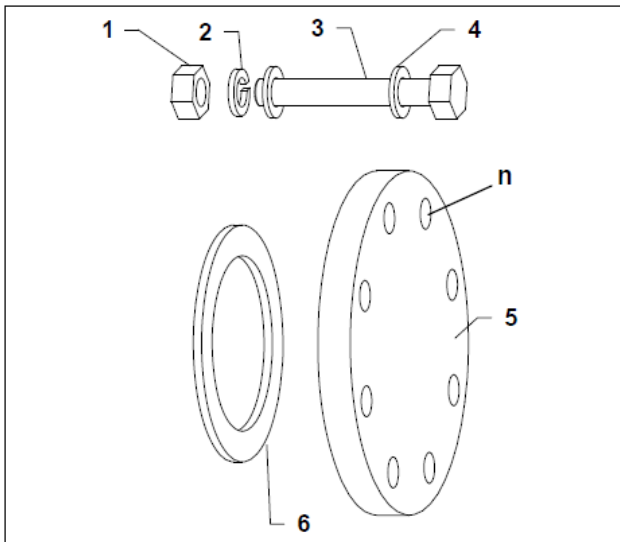
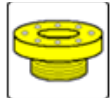
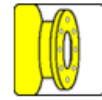


# PENTAIR

## CLOSURES & ADAPTER



### BLINDFLANGE



Item	Description	Material	DN50	DN80	DN100	DN200
1	Nut	SS	A-M16-A4	A-M16-A4	A-M16-A4	A-M20-A4
2	Spring Washer	SS	A-M16-VRO	A-M16-VRO	A-M16-VRO	A-M20-VRO
3	Bolt	SS	A-M16-90	A-M16-90	A-M16-90	A-M20-120
4	Washer	SS	A-M16-RON	A-M16-RON	A-M16-RON	A-M20-RON
5	Blind Flange	PP-GF/PVC	AG-DN-50B	AG-DN-80B	AG-DN-10B	A-3742-00
6	Seal	NBR	A-2600-68	A-2600-71	A-2600-67	A-DN20-0D
			4	8	8	8
			19	19	20	46
			145	160	180	295
			185	200	220	340
			<b>AG-DN-50L</b>	<b>AG-DN-80L</b>	<b>AG-DN-10L</b>	<b>A-3200-01C</b>



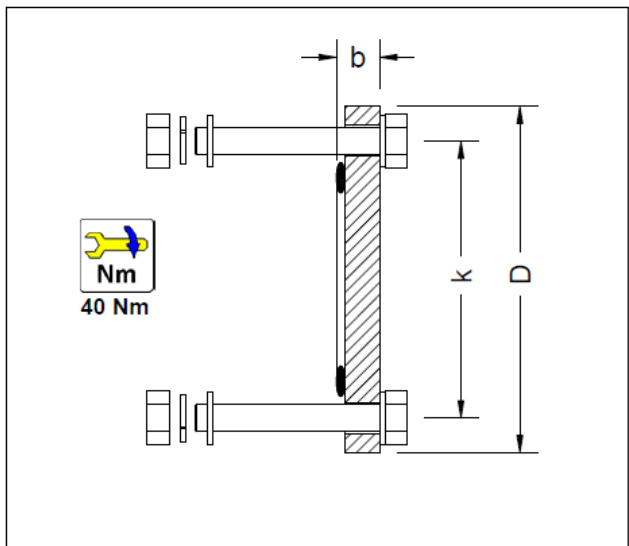
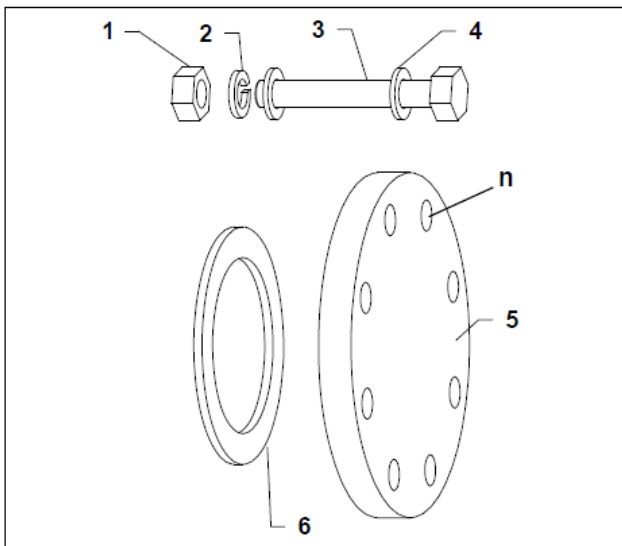
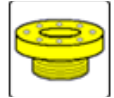


**PENTAIR**

# CLOSURES & ADAPTER



## BLINDFLANGE



Item	Description	Material	DN50	DN80	DN100	DN200
1	Nut	SS	A-M16-A4	A-M16-A4	A-M16-A4	A-M20-A4
2	Spring Washer	SS	A-M16-VRO	A-M16-VRO	A-M16-VRO	A-M20-VRO
3	Bolt	SS	A-M16-90	A-M16-90	A-M16-90	A-M20-120
4	Washer	SS	A-M16-RON	A-M16-RON	A-M16-RON	A-M20-RON
5	Blind Flange	PP-GF	AG-DN-50B	AG-DN-80B	AG-DN-10B	AG-DN-20PPGF
6	Seal	NBR	A-2600-68	A-2600-71	A-2600-67	A-DN20-0D
			4	8	8	8
			19	19	20	41
			145	160	180	295
			185	200	220	340
			<b>AG-DN-50L</b>	<b>AG-DN-80L</b>	<b>AG-DN-10L</b>	<b>A-3200-02C</b>





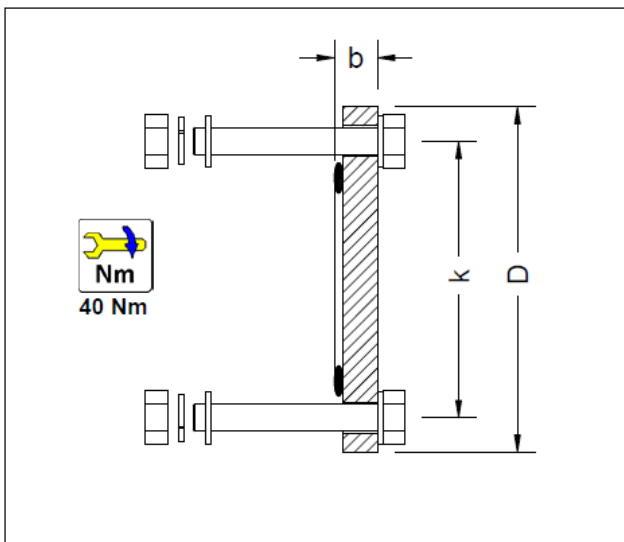
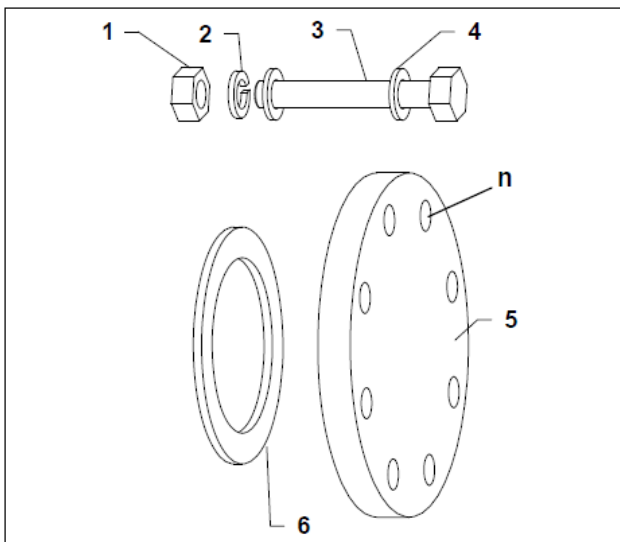
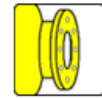


**PENTAIR**

# CLOSURES & ADAPTER



## BLINDFLANGE



Item	Description	Material	DN50	DN80	DN100	DN200
1	Nut	SS	A-M16-A4	A-M16-A4	A-M16-A4	A-M20-A4
2	Spring Washer	SS	A-M16-VRO	A-M16-VRO	A-M16-VRO	A-M20-VRO
3	Bolt	SS	A-M16-90	A-M16-90	A-M16-90	A-M20-120
4	Washer	SS	A-M16-RON	A-M16-RON	A-M16-RON	A-M20-RON
5	Blind Flange	PP-GF/PVC	AG-DN-50B	AG-DN-80B	AG-DN-10B	A-3742-00
6	Seal	NBR	A-2600-68	A-2600-71	A-2600-67	A-DN20-0D
			4	8	8	8
			19	19	20	46
			145	160	180	295
			185	200	220	340
			<b>AG-DN-50L</b>	<b>AG-DN-80L</b>	<b>AG-DN-10L</b>	<b>A-3200-01C</b>



1

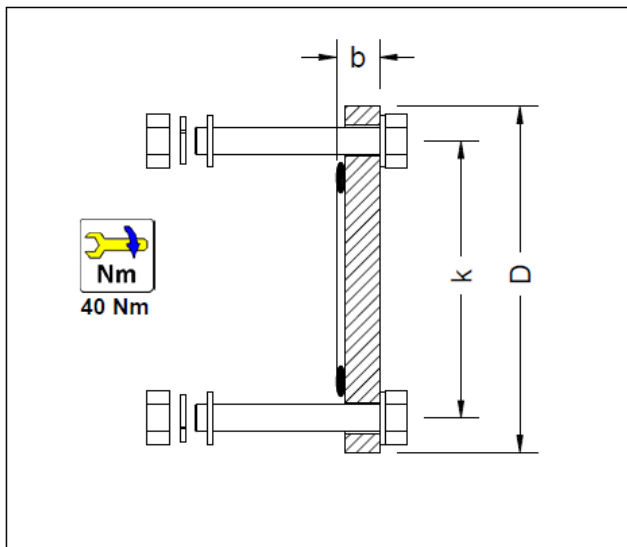
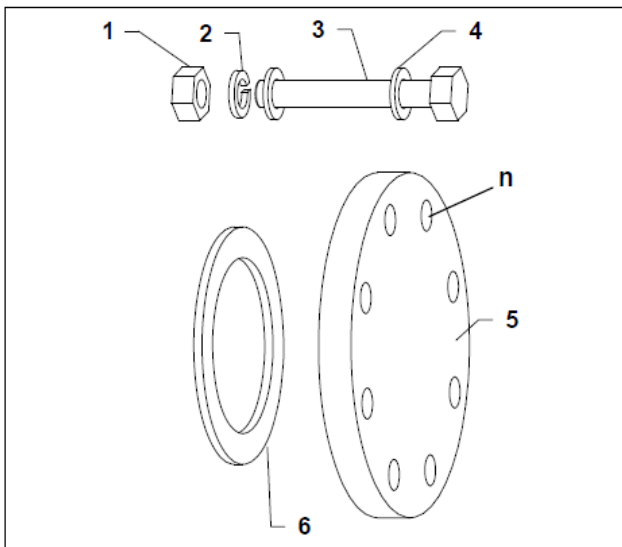
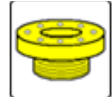
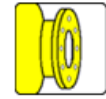


PENTAIR

# CLOSURES & ADAPTER



## BLINDFLANGE



Item	Description	Material	DN50	DN80	DN100	DN200
1	Nut	SS	A-M16-A4	A-M16-A4	A-M16-A4	A-M20-A4
2	Spring Washer	SS	A-M16-VRO	A-M16-VRO	A-M16-VRO	A-M20-VRO
3	Bolt	SS	A-M16-90	A-M16-90	A-M16-90	A-M20-120
4	Washer	SS	A-M16-RON	A-M16-RON	A-M16-RON	A-M20-RON
5	Blind Flange	PP-GF	AG-DN-50B	AG-DN-80B	AG-DN-10B	AG-DN-20PPGF
6	Seal	NBR	A-2600-68	A-2600-71	A-2600-67	A-DN20-0D
			4	8	8	8
			19	19	20	41
			145	160	180	295
			185	200	220	340
			<b>AG-DN-50L</b>	<b>AG-DN-80L</b>	<b>AG-DN-10L</b>	<b>A-3200-02C</b>



1

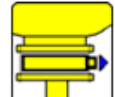


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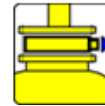
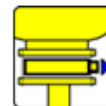
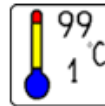
# DRAIN INSERTS



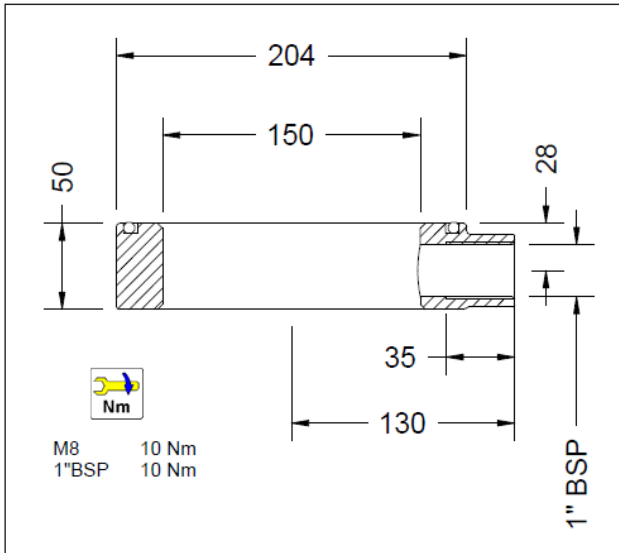
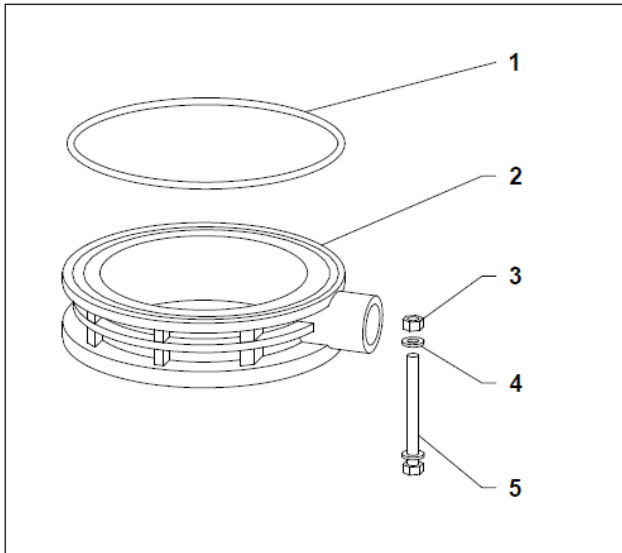
## 6" FLANGE



DRAIN



1" BSP



M8 10 Nm  
1" BSP 10 Nm



1" BSP

Item	Description	Dimensions	Quantity	Material	Part number
1	O-ring	183.52 x 6.99 mm	1	NBR	A-2694-8F
2	Drain insert	6" - 1" BSP	1	PPO	A-085-0002
3	Nut	M8	12	SS	A-M8-A4
4	Washer	M8	24	SS	A-M8-RON
5	Bolt	M8 x 120	12	SS	A-M8-120



1

A-DRAIN-1BSP

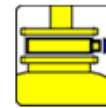
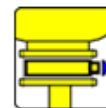
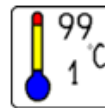
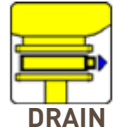
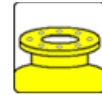


PENTAIR

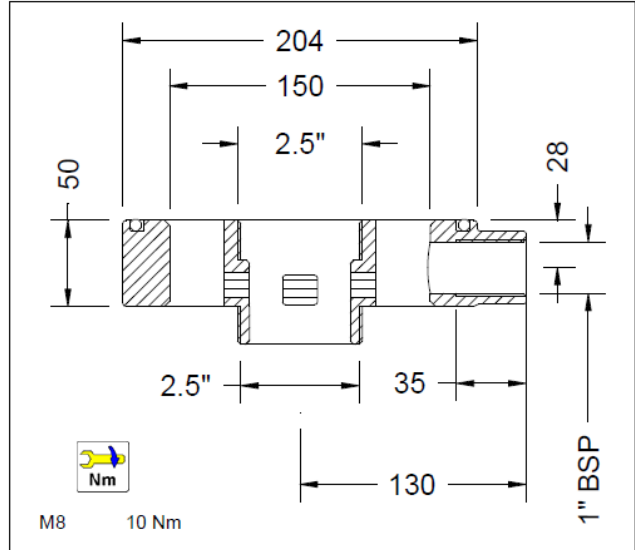
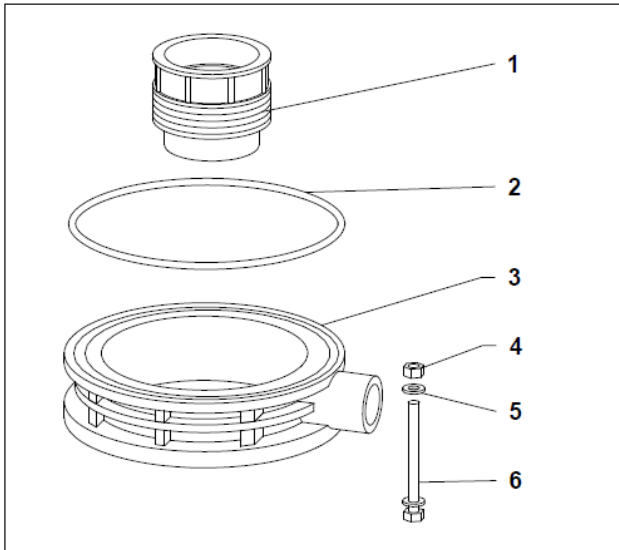
# DRAIN INSERTS



## 6" FLANGE



1" BSP



1" BSP  
2.5"

Item	Description	Dimensions	Quantity	Material	Part number
1	Prolongation	2.5" - 50mm	1	PPO	A-3100-04C
2	O-ring	183.52 x 6.99 mm	1	NBR	A-2694-8F
3	Drain insert	6"-1"BSP	1	PPO	A-085-0002
4	Nut	M8	12	SS	A-M8-A4
5	Washer	M8	24	SS	A-M8-RON
6	Bolt	M8 x 120	12	SS	A-M8-120



1

**A-DRAIN-LF**

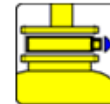
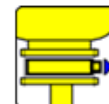
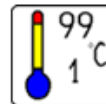
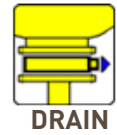
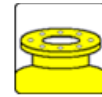


PENTAIR

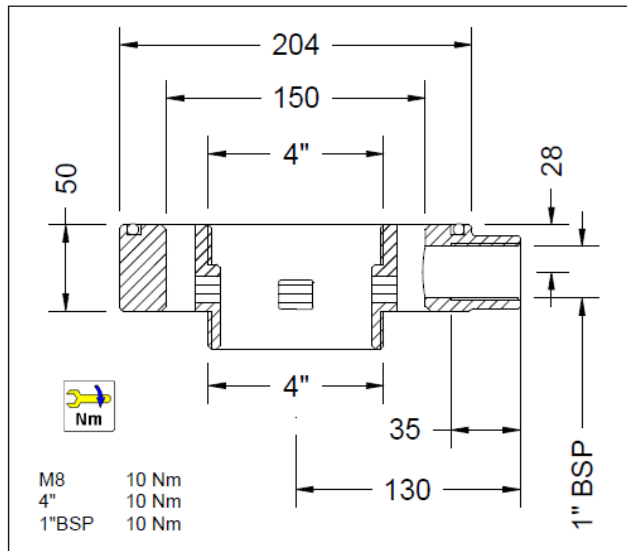
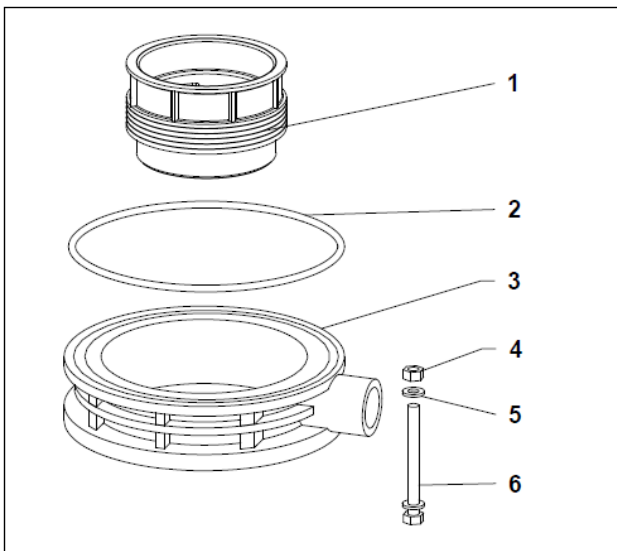
# DRAIN INSERTS



## 6" FLANGE



1" BSP



M8	10 Nm
4"	10 Nm
1" BSP	10 Nm



1" BSP  
4"

Item	Description	Dimensions	Quantity	Material	Part number
1	Prolongation	4" – 50mm	1	PPO	A-3100-05C
2	O-ring	183.52 x 6.99 mm	1	NBR	A-2694-8F
3	Drain insert	6"-1" BSP	1	PPO	A-085-0002
4	Nut	M8	12	SS	A-M8-A4
5	Washer	M8	24	SS	A-M8-RON
6	Bolt	M8 x 120	12	SS	A-M8-120



1

**A-DRAIN-HF**



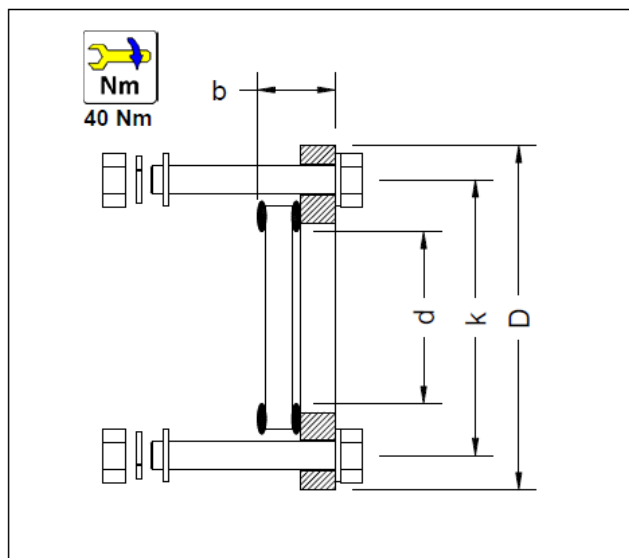
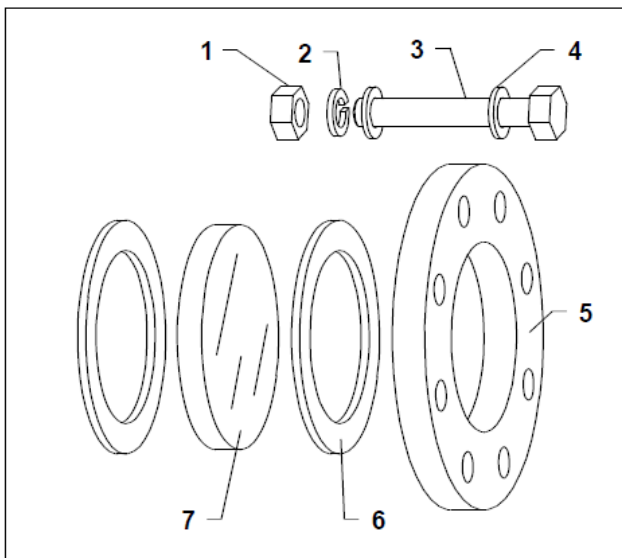


PENTAIR

# SIGHT GLASS



## SIGHTGLASS



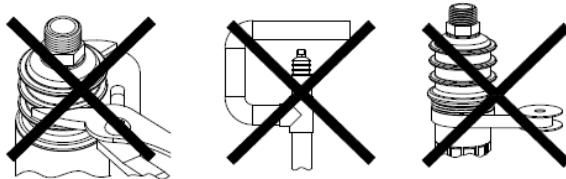
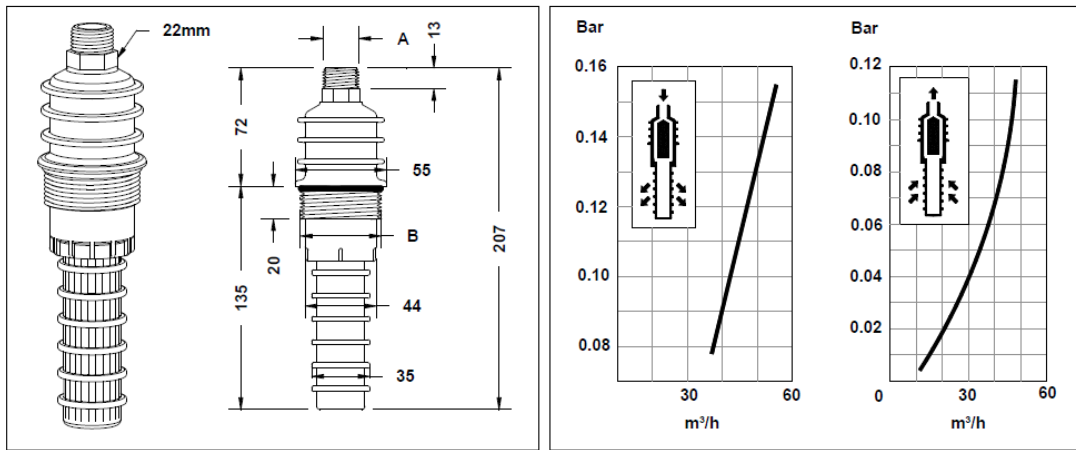
Item	Description	Quantity	Material	DN80	DN100
				Part number	
1	Nut	8	SS	A-M16-A4	A-M16-A4
2	Spring Water	8	SS	A-M16-VRO	A-M16-VRO
3	Bolt	8	SS	A-M16-110	A-M16-110
4	Washer	16	SS	A-M16-RON	A-M16-RON
5	Backing Flange	1	PP-GF	X-1V-IP80	X-0D-N101
6	Seal	1	NBR	A-2600-71	A-2600-67
7	Sightglass	1	GLASS	A-KIJK-80	A-KIJK-100
				45	45
				100	115
				200	220
				160	180
				<b>A-SGHT-DN80</b>	<b>A-SGHT-DN100</b>



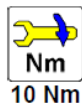
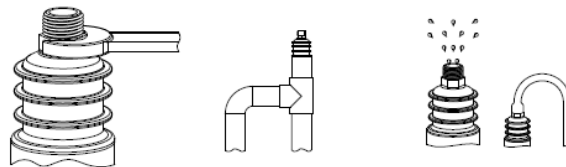
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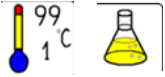


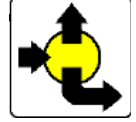
## AERATION VALVE



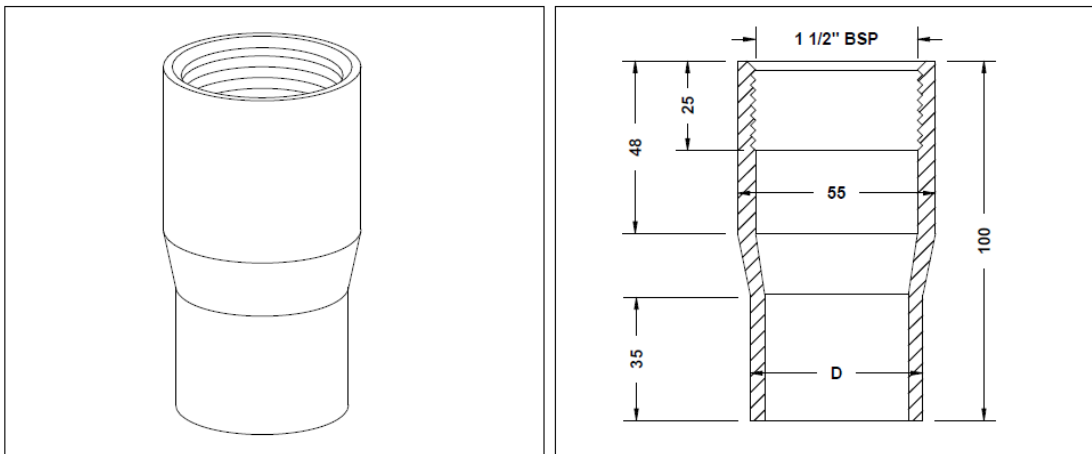
### AERATION VALVE





Item	Thread A	Thread B	Material	 1
	1/2" BSP	1 1/2" BSP	PP-GF/EPDM	<b>A-AV-150PP</b>
	1/2" NPT	1 1/2" NPT	PP-GF/EPDM	
	1/2" BSP	1 1/2" BSP	PVDF/FPM	<b>A-AV-150PVDF</b>
	1/2" NPT	1 1/2" NPT	PVDF/FPM	



## AERATION VALVE

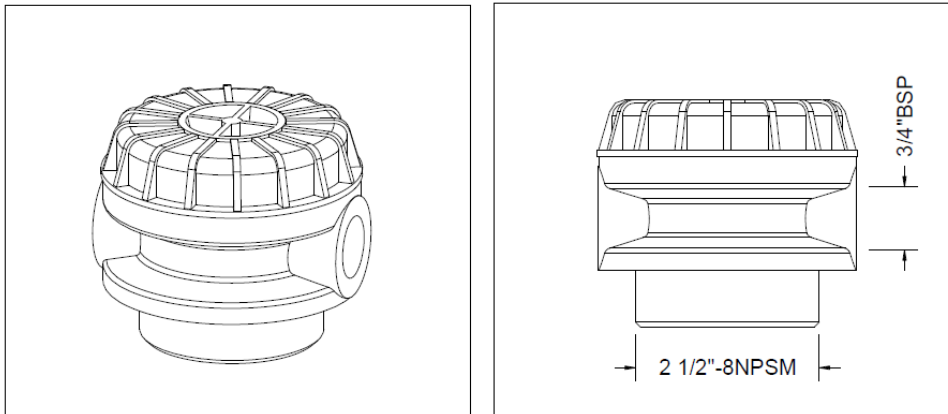


### ADAPTER FOR AERATION VALVE

D		Description	Material	 1
48mm		1 1/2" BSP - 48 mm	PVC	<b>A-AV-AD48</b>
50mm		1 1/2" BSP - 50 mm	PVC	<b>A-AV-AD50</b>



## 2.5" VALVE

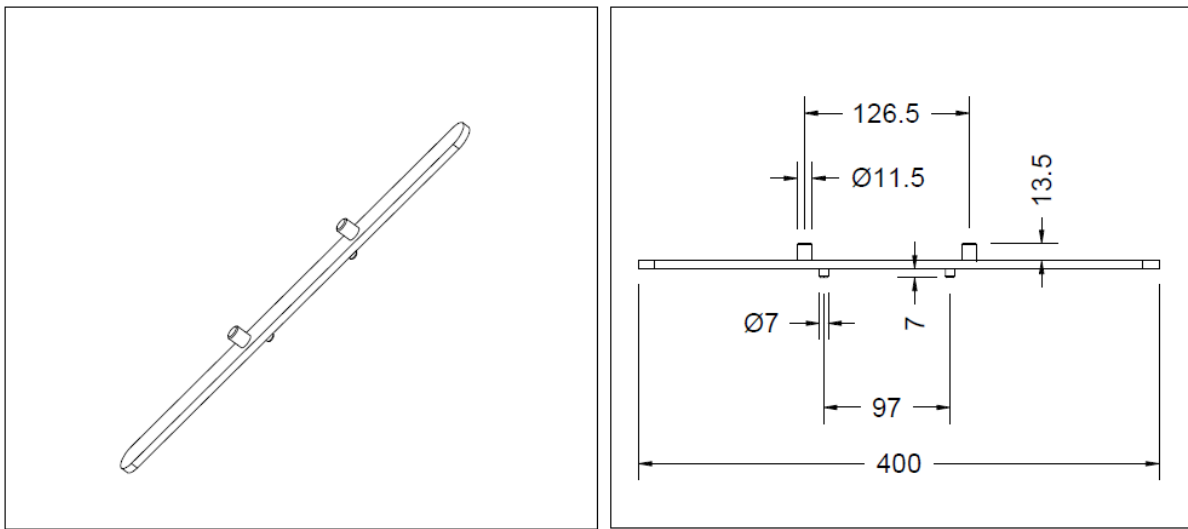
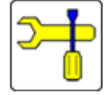


### MANUAL VALVE



Type	Thread A	Thread B	Material	 1
	2.5" - 8 NPSM	3/4" BSP	PP	<b>A-ANA-25-G3/4</b>



## WRENCHES



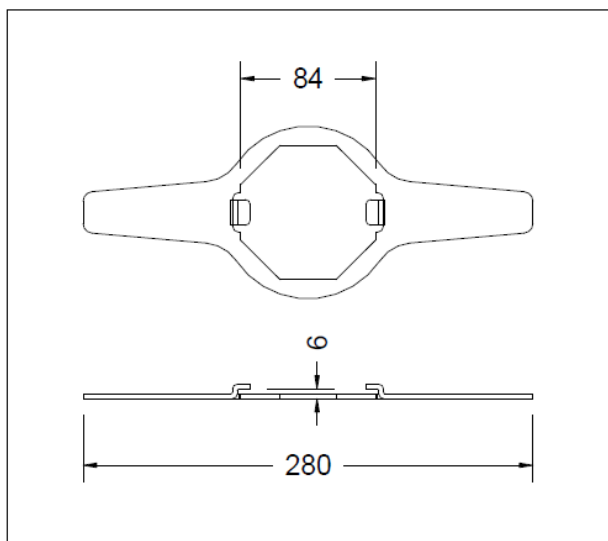
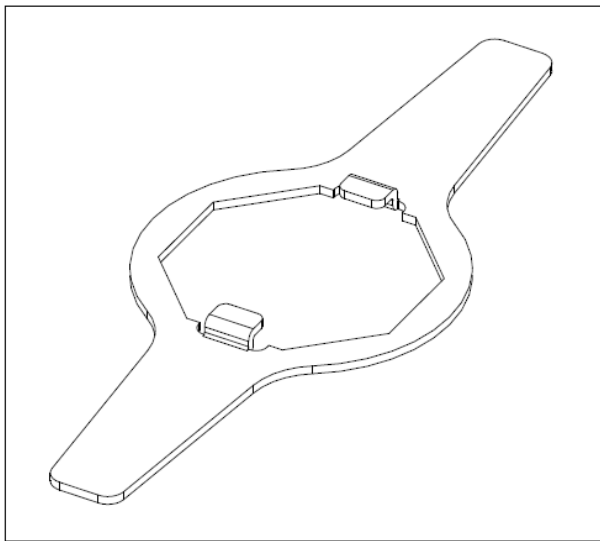
### NOTCHED WRENCH FOR ADAPTERS

Item	Description	Dimensions	Quantity	Material	Part number
1	Notched wrench for adapters	Ø7 x 97 Ø11.5 x 126.5	1	STEEL	I-WR01-AD
					
					
			1		<b>I-WR01-AD</b>





## WRENCHES



**OCTOGONAL WRENCH FOR ADAPTERS**  
2.5" - 84 MM



Item	Description	Dimensions	Quantity	Material	Part number
1	Octagonal wrench for adapters	2.5" - 84 mm	1	PVC	I-WR05-AD

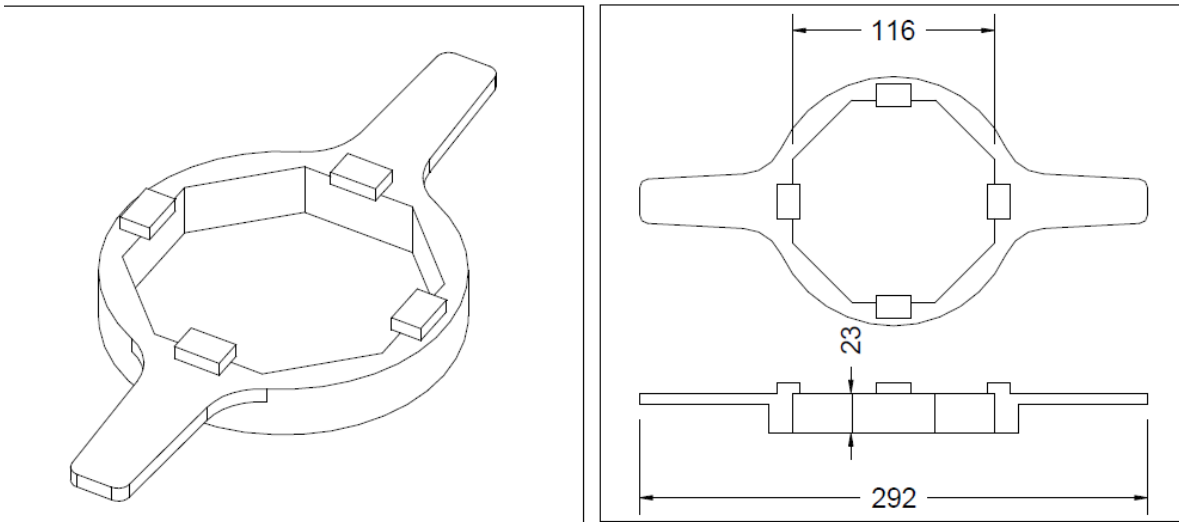


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**I-WR05-AD**




## WRENCHES



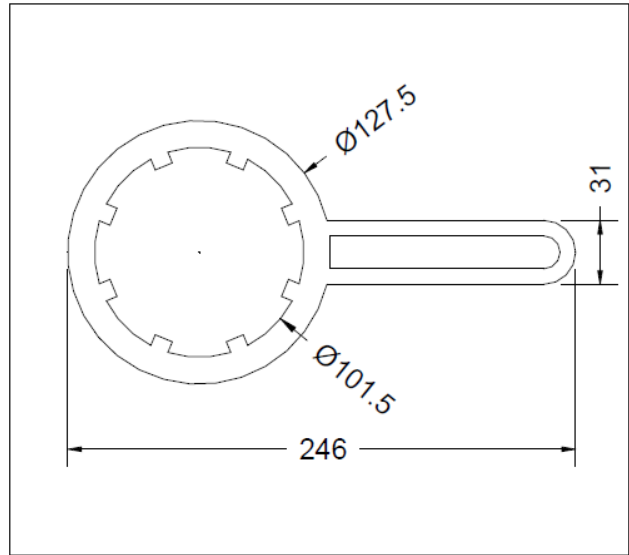
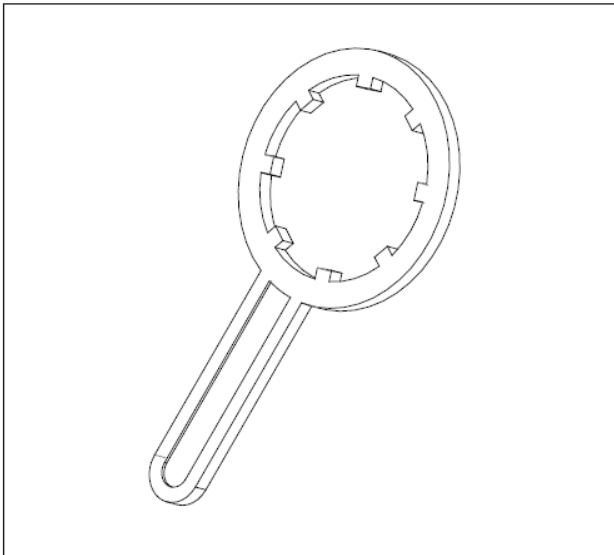
**OCTAGONAL WRENCH FOR ADAPTERS**  
4" - 116 MM

Item	Description	Dimensions	Quantity	Material	Part number
1	Octagonal wrench for adapters	4" - 116 mm	1	PVC	I-WR06-AD
					<b>I-WR06-AD</b>

  
 1



## WRENCHES



### WRENCH FOR MANUAL VALVE

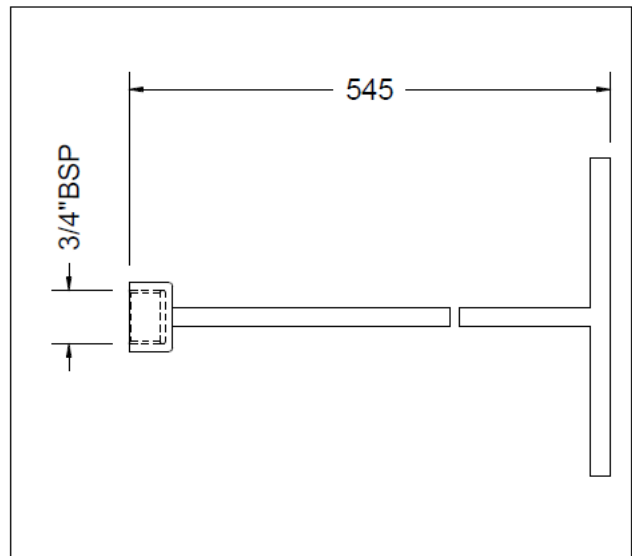
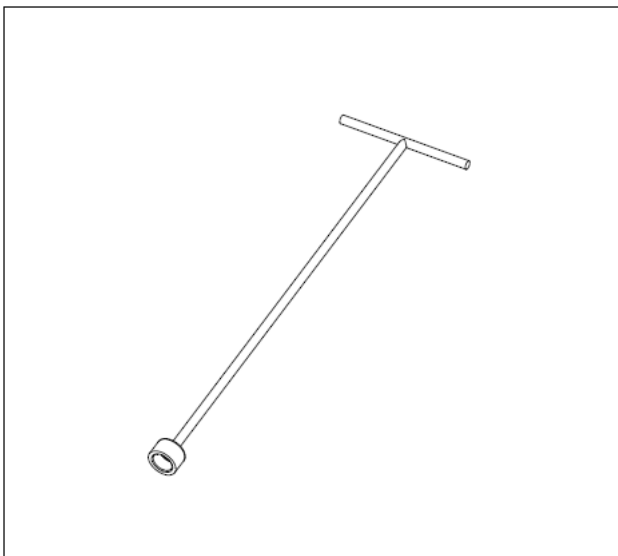
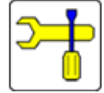


Item	Description	Dimensions	Quantity	Material	Part number
1	Wrench for manual valve	101.5	1	PP	A-ANA-S
					<b>A-ANA-S</b>





## EXTENSION



**EXTENSION**  
**3/4" BSP**



Item	Description	Dimensions	Quantity	Material	Part number
1	Extension	3/4" BSP	1	STEEL	I-WR03-LA

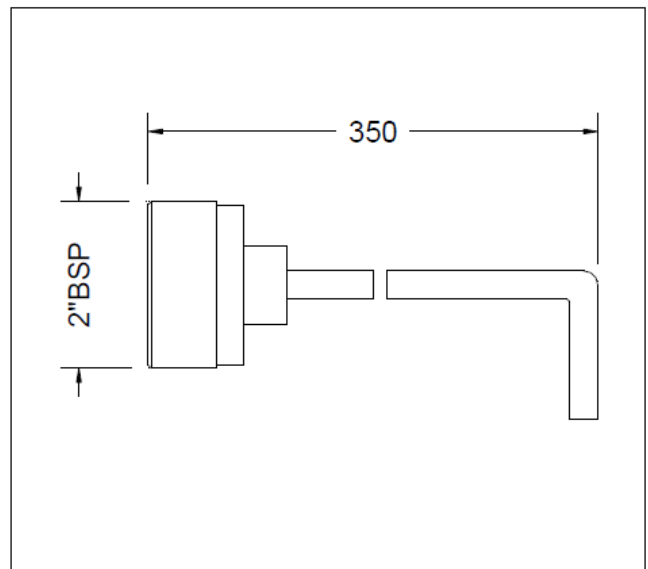
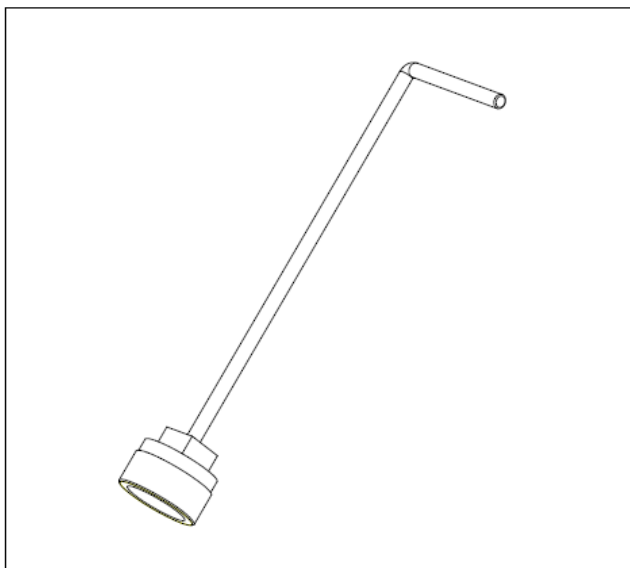
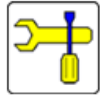


1

**I-WR03-LA**



## EXTENSION



**EXTENSION**  
**2" BSP**

Item	Description	Dimensions	Quantity	Material	Part number
1	Extension	2" BSP	1	STEEL	I-WR02-LA
					<b>I-WR02-LA</b>

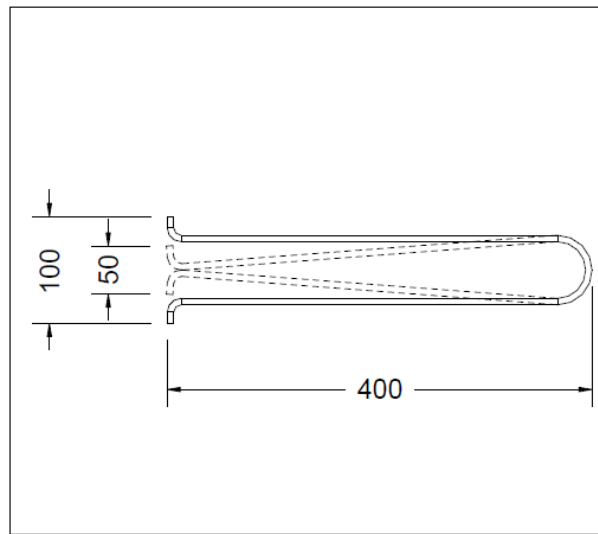
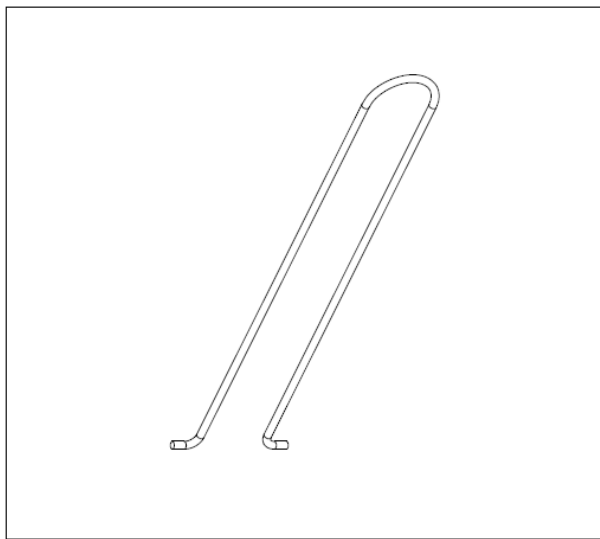
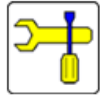


1





## EXTENSION



### EXTENSION 6-8 HUBS

Item	Description	Dimensions	Quantity	Material	Part number
1	Extension	6-8-HUBS	1	STEEL	I-WR04-LA

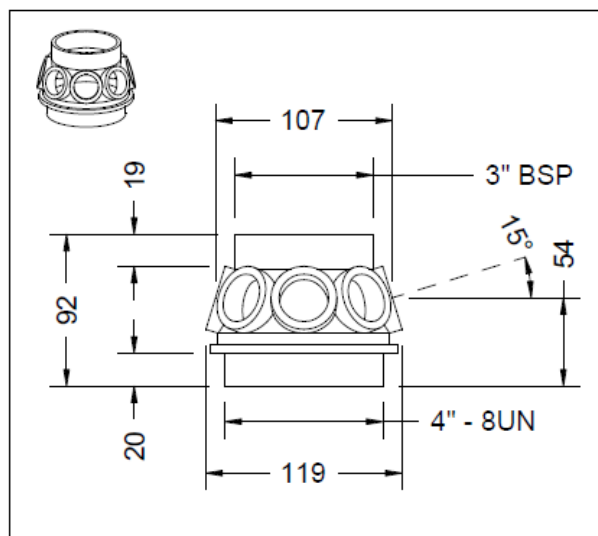
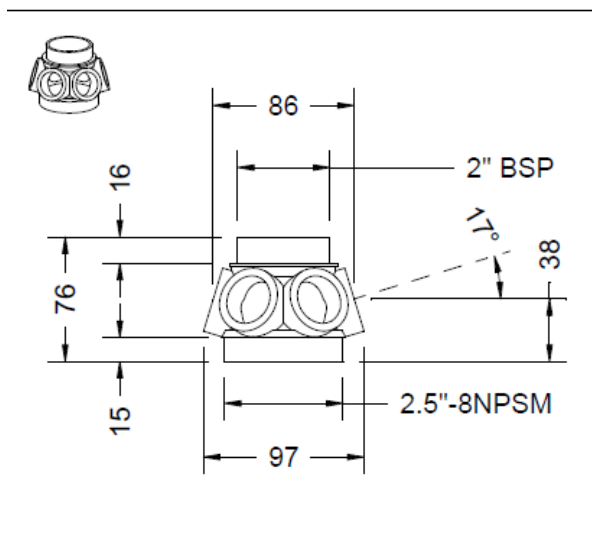


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**I-WR04-LA**



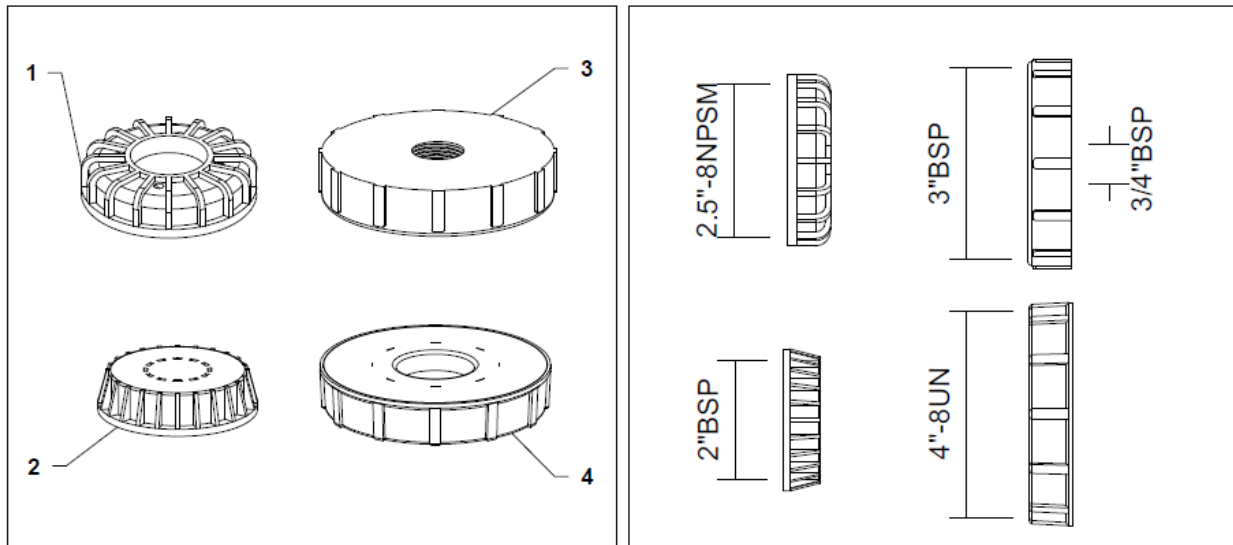
## HUB



		Dimensions	Material	Part number
		Hub (6)	PP	AB-H60-00
		Hub (6)	PP	ATD-H60-00
		Hub (8)	PP	ATD-H80-00
		Hub (6)	PP-GF	ATD3-H60-00
		Hub (8)	PP-GF	ATD3-H80-00
		Hub (6)	PVDF	ATD1-H60-00
		Hub (8)	PVDF	ATD1-H80-00



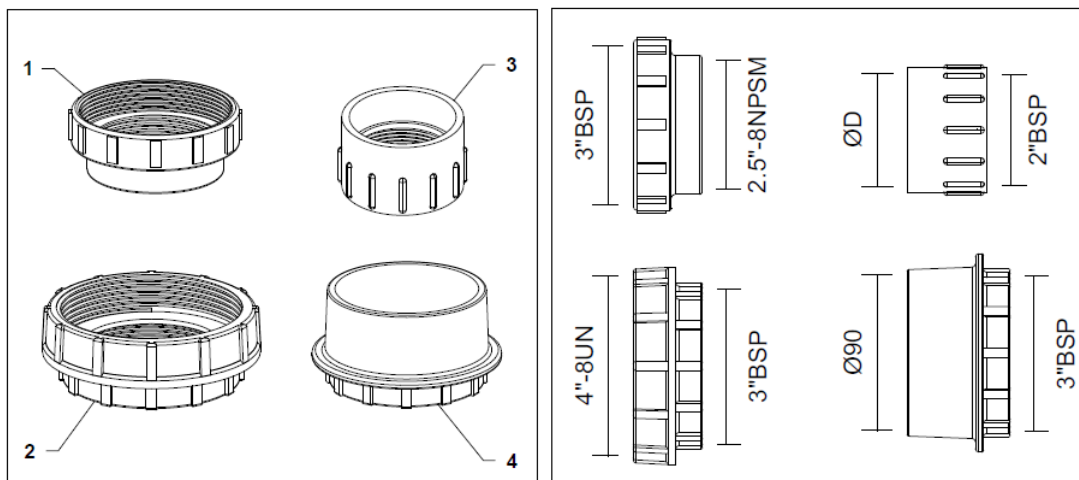
### HUBCAP






Item	Description	Part number		
		PP	PP-GF	PVDF
1	2.5" - 8 NPSM	AC-H60-00	AC3-H60-00	AC1-H60-00
2	2" BSP	AD-H60-00	AD3-H60-00	AD1-H60-00
3	3" BSP - 3/4" BSP	A-BTC8-30	A3-BTC8-30	A1-BTC8-30
4	4" - 8 UN	AD-H80-00	AD3-H80-00	AD1-H80-00



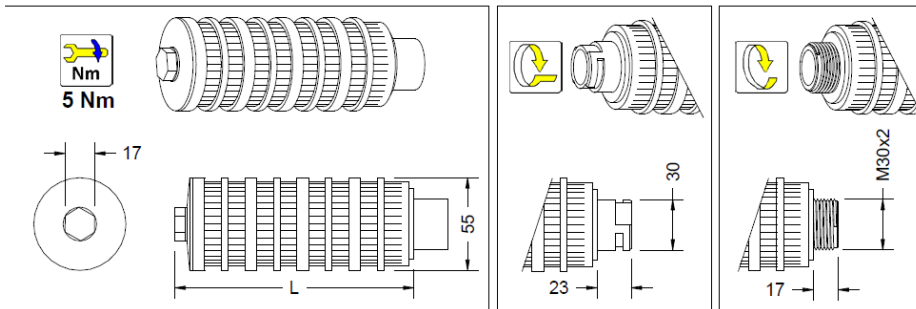
## HUBADAPTER



Item	Description	 PVC PP (*)			 PP-GF			 PVDF		
		Part number								
1	2.5" - 8 NPSM / 3" BSP	AB-C08-30*	AB3-C08-30	AB1-C08-30						
2	3" BSP / 4" -8 UN	AB-C08-40*	AB3-C08-40	AB1-C08-40						
3	2" BSP / D = 50mm	A-2600-63	-	-						
3	2" BSP / D = 60mm	A-1075-1	-	-						
3	2" BSP / D = 63mm	A-1074-1	-	-						
4	3" BSP / 90mm	AB-GC8-30	-	-						



### LATERAL



			PVDF	White
			PP-GF PPO	Black
			PP	Gray
			PP	Yellow

L (mm) Length							
113	A-BT02-113	A-BT05-113	A-TH02-113	A-TH05-113	A3-TH02-113	A1-TH02-113	6
175	A-BT02-175	A-BT05-175	A-TH02-175	A-TH05-175	A3-TH02-175	A1-TH02-175	6
268	A-BT02-268	A-BT05-268	A-TH02-268	A-TH05-268	A3-TH02-268	A1-TH02-268	6
330	A-BT02-330	A-BT05-330	A-TH02-330	A-TH05-330	A3-TH02-330	A1-TH02-330	6
361	-	-	A-TH02-361	A-TH05-361	A3-TH02-361	A1-TH02-361	8
423	-	-	A-TH02-423	A-TH05-423	A3-TH02-423	A1-TH02-423	8
485	-	-	A-TH02-485	A-TH05-485	A3-TH02-485	A1-TH02-485	8
515	-	-	A-TH02-515	A-TH05-515	A3-TH02-515	A1-TH02-515	8
578	-	-	A-TH02-578	A-TH05-578	A3-TH02-578	A1-TH02-578	8



## DIFFUSOR



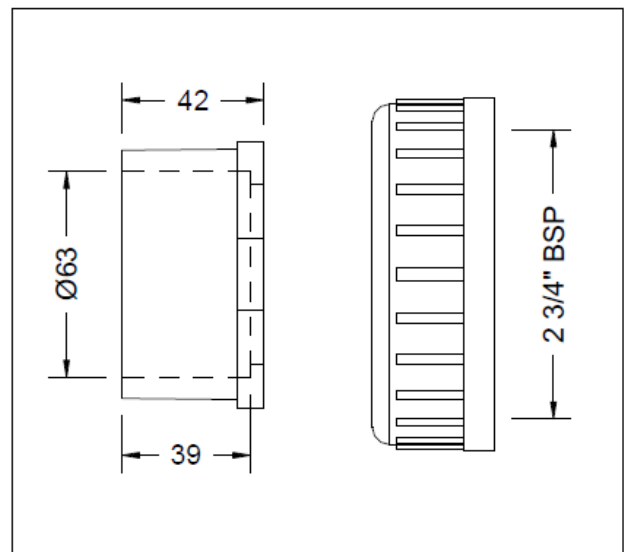
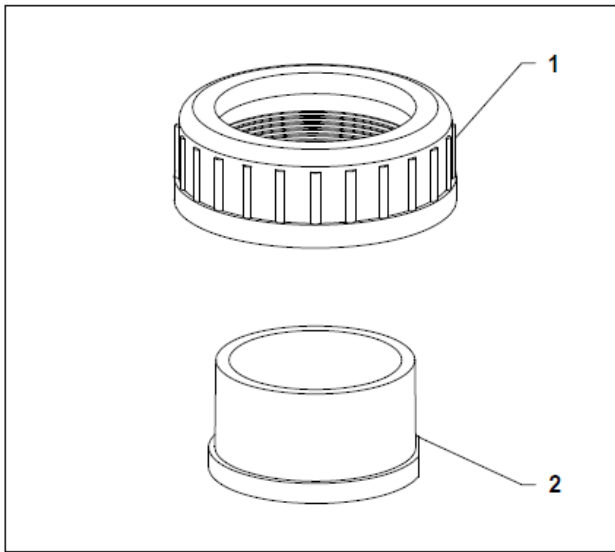
 Nm 5 Nm	 99 1 °C	 ±0.2	 PVDF	White
	 65 1 °C	 ±0.5	PP	Gray
	 65 1 °C	 ±0.2	PP	Yellow

T2 (mm) Thread	T1(mm) Thread	h (mm) Height	L (mm) Length	 65 1 °C		 99 1 °C	  
				 ±0.2	 ±0.5	 ±0.2	
2" BSP	ø50	30	126	A-2721-26	-	-	1
2" BSP	ø50	30	180	A-2721-80	A-2600-65	A1-2742-BSP	1
2.5" - 8 NPSM	2" BSP	20	180	A-2740--	A-2746--	A1-2740--	1
2.5" - 8 NPSM	2" BSP	20	338	-	A-2746-338	-	1





**UNION**

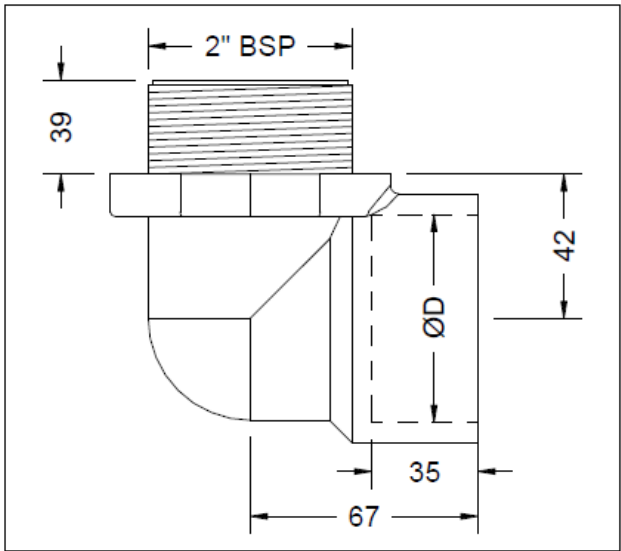
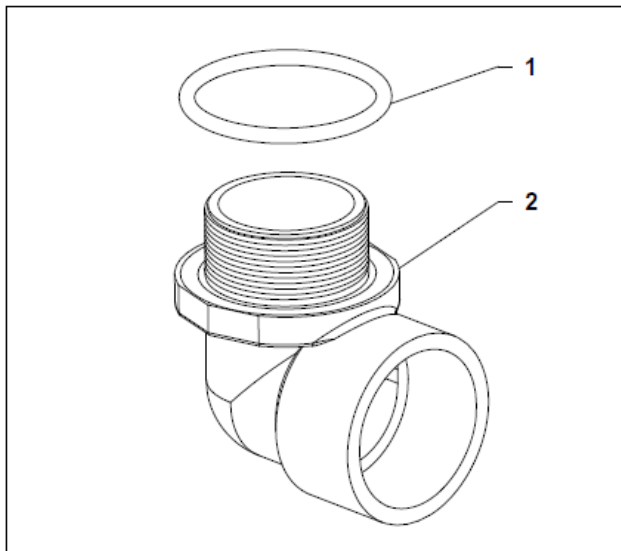


Item	Description	Material	Part number
1	Collat	PVC	A-8250-63
2	Union nut	PVC	A-8200-63
			<b>A-8200-63C</b>





# ELBOW

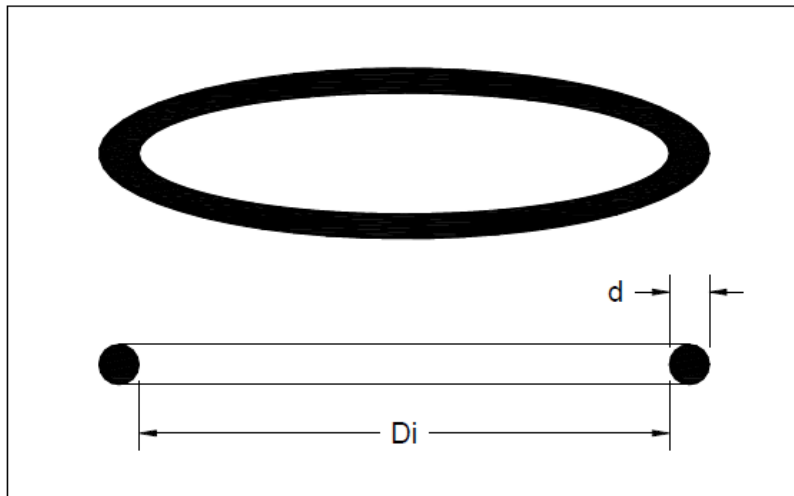




Item	Description	Material	D= 60 mm	D= 63 mm
			Part number	
1	O-ring	NBR	A-2694-17	A-2694-17
2	Elbow	PVC	A-2700--	A-2693--
			<b>A-2700-C</b>	<b>A-2693-C</b>

  
5



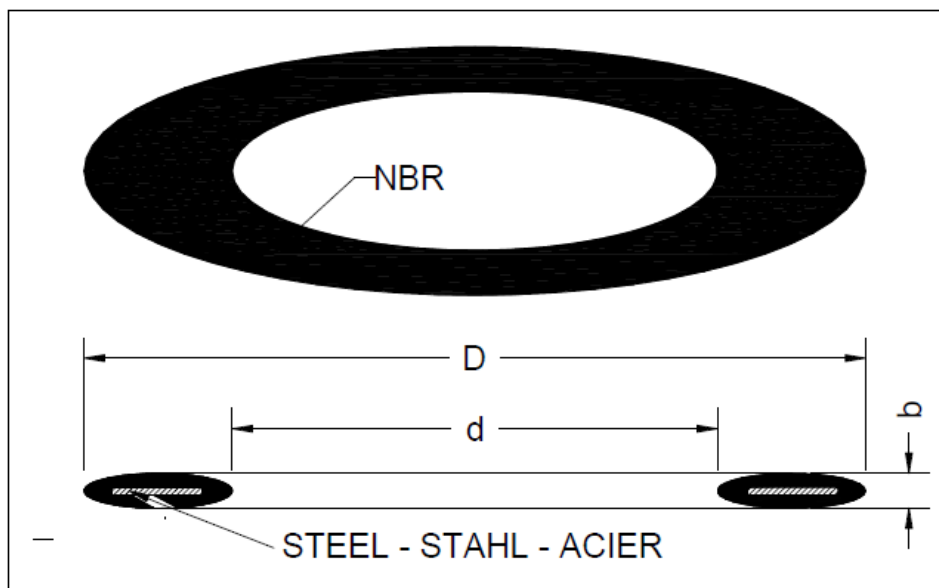
## O'RING




Di	d	AS-N°			 		
			NBR	EPDM	FPM	FEP	
56.52	5.33	AS331	A-2694-60	-	-	-	20
66.04	5.33	AS334	A-2694-17	-	-	-	20
68	3.53	-	-	A-2694-1	-	-	20
98	4	-	A-2694-3	-	-	-	20
110	4	-	A-2694-3F	-	-	-	20
115	5	-	A-2694-BF	-	-	-	20
145.64	3.53	AS256	A-2694-19	-	-	-	20
183.52	6.99	AS442	A-2694-8F	-	A-2694-V8F	A-2694-F8F	20



## FLAT SEAL



DN DIN2690	D	d	b	Part Number	
DN50	107	61	4	A-2600-68	10
<del>DN65</del>	127	77	4	-	10
DN80	142	90	4	A-2600-71	10
DN100	162	115	5	A-2600-67	10
DN125	192	141	5	-	5
DN150	218	169	5	A-DN15-0D	5
DN200	273	220	6	A-DN20-0D	5
DN300	378	325	6	A-DN30-0D	5
DN400	490	420	7	A-DN40-0D	5



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