

# STANDARD & CUSTOM FABRICATED PVC & CPVC FITTINGS



PVC & CPVC FITTINGS

- Serving Industrial Municipal, Utility, Agriculture and Irrigation Markets
- Quick Regional Response Time
- Personalized Customer Service



We build tough products for tough environments®



## IPEX – The Leader in Thermoplastic Piping Systems

The IPEX companies design and manufacture the largest, most recognized and diverse range of integrated piping products – Everything professionals need to manage the full spectrum of today's municipal, irrigation, industrial commercial and residential challenges.

But what IPEX offers goes far beyond pipes, valves and fittings. Our commitments to excellence means IPEX also brings accountability, reliability and integrity to each and every product, backed by strong distributor relationships and the industry's most comprehensive and experienced sales and support network. It is what has made IPEX the responsible choice in North America for over 50 years.

## NACO PVC & CPVC Pipe & Fittings

Serving the industrial, municipal, utility and irrigation markets since 1976, Naco fittings are manufactured in Utah, Idaho, California and Kansas with distribution strategically located across the United States combining leading customer support, product quality and service levels.



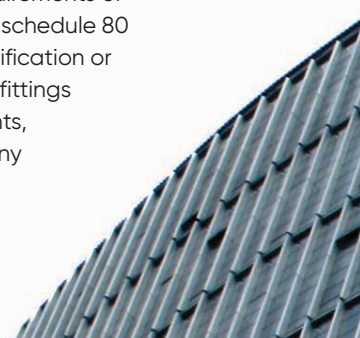
## Industrial and Pressure Fittings

### SCHEDULE 40 PRESSURE FITTINGS

NACO fabricated Schedule 40 Pressure fittings are designed for superior performance and are ideal in numerous industrial, commercial, and municipal applications. Using corrosion-resistant Schedule 40 PVC, our fabricated fittings are manufactured from segments of PVC pipe that meets or exceeds the requirements of ASTM D-1784. Our broad line of fabricated fittings for Schedule 40 pipe covers virtually any specification or combination your project may require. Our fittings are manufactured in Socket x Socket joints, Socket x Spigot joints, FIPT & MIPT, and any combination thereof in 6" – 24" sizes.

### SCHEDULE 80 PVC & CPVC PRESSURE FITTINGS

NACO fabricated Schedule 80 Pressure fittings are designed for shear performance in the most rigorous and demanding environments of Industrial, Commercial, Municipal, and Irrigation distribution systems. Using corrosion-resistant Schedule 80 PVC and CPVC our fabricated fittings are manufactured from segments of PVC pipe that meets or exceeds the requirements of ASTM D-1784. Our vast line of fabricated schedule 80 pressure fittings covers virtually any specification or combination your project demands. Our fittings are manufactured in Socket x Socket joints, Socket x Spigot joints, FIPT & MIPT and any combination thereof in 6" – 24" sizes.





### Typical Applications:

- Industrial Process Applications
- Chemical Process Applications
- Plant water supply and distribution lines
- Cooling water systems
- Vacuum Piping
- Water Distribution Systems
- Water conveyance in hatcheries, aquariums, and amusement & water parks
- Water and Sewage Treatment
- Service Piping
- Irrigation Systems
- Agricultural Applications

### IPS CL160 & CL 200

NACO fabricated fittings for IPS Class 160 & 200 piping systems are manufactured and offered in Iron Pipe Size (IPS) diameters 6" through 12". NACO's IPS CL160 & CL200 Fabricated fittings are produced from Class 160 & 200 pipe which meets or exceeds all of the specifications of ASTM D2241. These fittings are produced from pipe made from material that conforms to ASTM D1784.

Our fabricated IPS pressure fittings are offered in both gasketed "push-on" joints and socketed solvent-weld joints in Standard Dimension Ratios (SDR) 26 and 21 with pressure ratings of 160 and 200 psi respectively.

### Typical Applications:

- Sewer Force Mains
- Water Distribution and Transmission
- Rural Water Supply
- Reclaimed Water Applications
- Golf Course Irrigation
- Stormwater Disposal



### CIOD C900/C905 FITTINGS

NACO fabricated C900/905 fittings are designed as a robust and corrosion-resistant alternative to cast iron pressure piping systems.

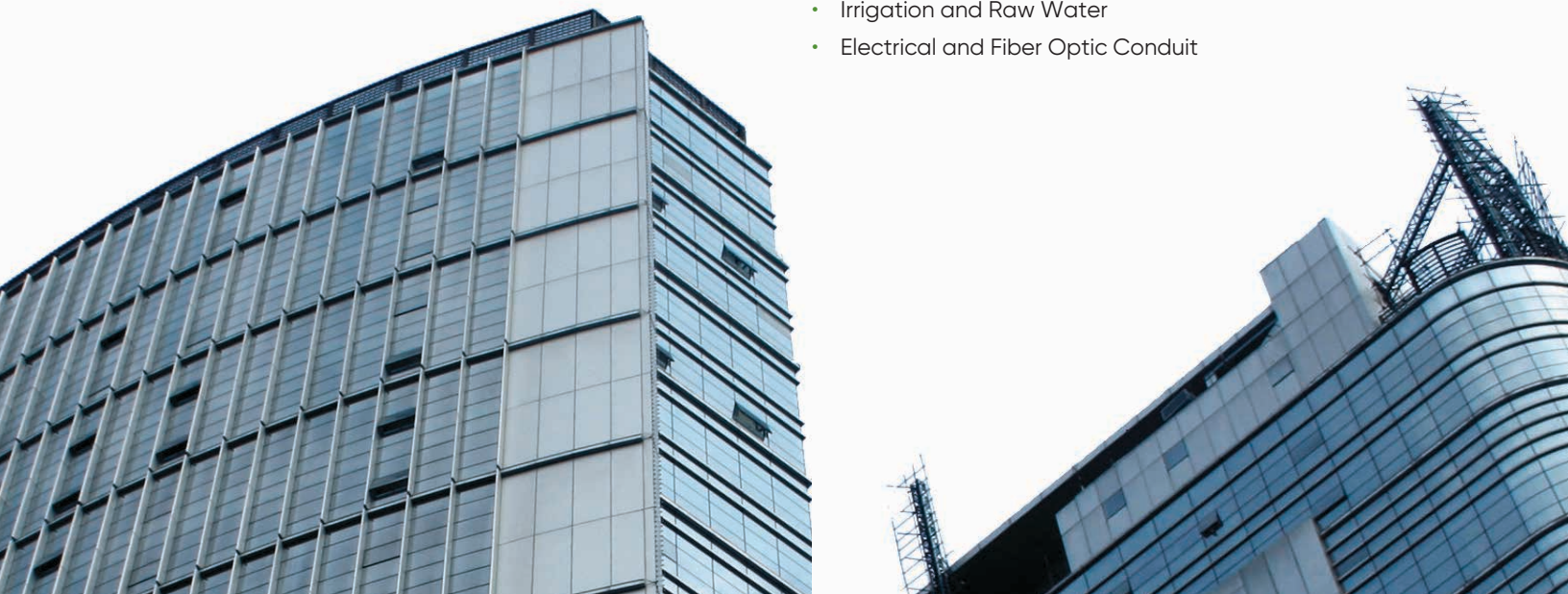
Our fabricated PVC CIOD fittings have a dimensional ratio (DR18 or DR25) equal to or greater than that of the pipe from which they are fabricated. Our fabricated fittings shall be manufactured from segments of PVC pipe bonded together conforming to or exceeding the requirements of AWWA C900 and C905. Our C900/905 fittings are manufactured with both gasketed bell "push-on" joints and socketed solvent-weld joints. Our fittings are engineered for use in higher-pressure water systems and low-pressure sewer force main systems.

C900 DR18 & DR25 fittings are manufactured in 6", 8", 10" and 12" sizes.

C905 DR18 & DR25 fittings are manufactured in 14", 16", 18", 20", 24", 30" and 36" sizes.

### Typical Applications:

- Municipal Water Mains
- Industrial Process Lines
- Gravity Sewer and Force Mains
- Process Water
- Reclaimed Water
- Irrigation and Raw Water
- Electrical and Fiber Optic Conduit





## Agriculture and Irrigation

### PIP 50, 80, 100, 125 FITTINGS

NACO PIP fittings include both gasket and solvent weld fabricated, as well as solvent weld in our expanding injection molded group. Robustly engineered and highlighted by our unique fabricated triple wall tee and wye design, NACO fittings have set the benchmark for quality and endurance.

This, along with 36 years of field proven performance, has made NACO fittings the clear choice of engineers and designers nation wide. As with all NACO fittings, our PIP line meets or exceeds all applicable ASTM standards including ASTM D1784, D2564, D2855 and F477.

**Listed below are some sample applications where NACO PIP fittings are currently being used.**

- Low pressure flood irrigation systems
- Pressure drip and sprinkler irrigation systems
- Dairy flush and waste effluent systems
- Dairy vacuum balance tanks
- Custom fabricated distribution manifolds
- Harvested fruit and vegetable water sorting systems
- Fish hatchery water delivery systems
- Air conditioning duct return systems

### SURFACE GATED FITTINGS

NACO Products leads the industry with our complete and thorough line of fabricated fittings for Surface Gated PVC piping systems, 6" through 12" diameters. This inclusive line is offered in both Gasketed and Solvent-Weld joints. NACO's gasketed joint fittings are available with Watergate, Gheen, or Felton Gasket options.

Surface Gated PVC piping systems have come to dominate the above-ground irrigation market. This product line is ideal and suitable for most above-ground applications where integral joints, dent-resistant transmission lines and corrosion resistance are critical. NACO's Surface Gated fittings are rated for pressures not exceeding 22 psi.

In conjunction with our line of fittings, NACO also offers Surface PVC Inline Butterfly Valves for diameters 6" – 12".

Our Surface Gated PVC Fittings meet or exceed applicable ASTM standards, and/or materials used in the manufacturing process meet or exceed applicable ASTM standards.

Surface Gated piping & fittings are most commonly used for above-ground, lay-flat piping systems. Benefits and applications include less friction in surface row crop irrigation, PVC is not susceptible to rust or corrosion and is manufactured with Sunlight (UV) resistant compounding.

### Typical Applications:

- Basin Irrigation
- Border Strip Irrigation
- Furrow Irrigation



## CERTA-LOK / YELLOWMINE

If you are looking for a temporary above ground application, or needing added UV protection, look to NACO Certa-Lok Yelomine fittings. Designed for use with Certa-Lok Yelomine Pipe, NACO Certa-Lok Yelomine fittings are manufactured from a specially formulated PVC compound that contains impact modifiers and UV inhibitors making our fittings ideal for above-ground exposed applications.

NACO Certa-Lok Yelomine fittings are available with a male Certa-Lok connection for use with Certa-Lok Yelomine pipe, or a Solvent Weld female connection for use with Yelomine pipe or standard IPS pipe. The NACO Certa-Lok male connection fittings provide a restrained joint by utilizing precision-machined grooves which, when aligned with the Yelomine pipe, allow a spline to be inserted, resulting in a fully restrained joint that locks the pipe and fittings together.

Our Certa-Lok Male Connection, and our Solvent Weld Female Connection fittings are available in 6" through 12" diameter, rated at 125 psi.

## IPS CL 63, 100 125 FITTINGS

NACO IPS CL63,100, and 125 fabricated fittings are available in both gasketed and solvent weld configurations. Engineered for endurance and trouble free performance, our daily focus is providing the highest quality product to the job site on time. Couple this with our industry superior triple wall tee design and 36 years of field proven performance and you'll see why NACO fittings are the designer's preferred choice nation wide. As with all NACO fittings, the IPS CL63,100, and 125 line meet or exceed all applicable ASTM specifications including D1784, D2241, D2564, D2672, D2855, D3139, and F477.



## Utility and DWV

### SDR 35 & SDR 26 FITTINGS

NACO fabricated fittings are designed to convey sanitary and industrial wastes, storm water runoff and other related applications. Our SDR35 and SDR26 sewer fittings conform to ASTM D3034 and F679 requirements respectively. Our fittings are designed and manufactured for maximum performance in the most demanding environments of modern municipal wastewater systems, residential wastewater control and other non-pressure applications.

#### Typical Applications:

- Sanitary & Storm Lateral Connections Surface & Area Drainage
- Parking Lot Drainage
- Closed Loop Septic Fields
- Open Septic Fields
- Roof & Foundation Drains
- Radon Gas Venting

### SCHED 40 & SCHED 80 DWV FITTINGS

NACO offers an extensive line of fabricated Schedule 40 and Schedule 80 PVC Drain, Waste & Vent (DWV) fittings including bends, wyes, couplings, adapters, bushings, and cleanouts. Our fabricated DWV fittings are available in 6" – 24" sizes and are manufactured to meet or exceed all applicable ASTM standards including ASTM D-2665. Our fabricated line of non-pressure drainage fittings are engineered and built to deliver a securely sealed, water-tight joint connection. Our DWV fittings are ideal and applicable to a variety of Municipal, Federal, Commercial, and Industrial projects.

#### Typical Applications:

- Sewage & Gray Water Discharge from Buildings
- Roof Drainage and Venting
- Commercial & Industrial drainage
- Parking Lot Drainage
- Sewer Connections
- Bridges
- Gas Venting
- Non-Pressure Irrigation





## CL 160 & 200 NON-PRESSURE DRAINAGE FITTINGS

NACO fabricated fittings for IPS Class 160 & 200 Drainage Piping Systems are manufactured and offered in Iron Pipe Size (IPS) diameters 6" through 12". Our fittings are designed and fabricated to achieve maximum performance in some of the harshest environments. NACO's IPS CL160 & CL200 Fabricated fittings are produced from Class 160 & 200 pipe which meets or exceeds all of the specifications of ASTM D2241. These fittings are produced from pipe made from material that conforms to ASTM D1784.

Our fabricated IPS drainage & non-pressure fittings are gasketed "push-on" joint fittings with Rieber or G-Style gasket options offered. These gaskets are produced and installed allowing the fitting to precisely accept and marry IPS PVC Pipe, fitting Standard Dimension Ratios (SDR) 26 and 21.

NACO's Fabricated IPS CL160 & 200 DWV Drainage fittings play a critical and significant role in meeting the growing and ever-important demand on environmentally-sound water drainage piping & collections systems.

### Typical Applications:

- Gravity Drainage of Sewage
- Surface Water Gravity Drainage
- Sanitary & Storm Lateral Connections
- Area & Roof Drainage
- Parking Lot Drainage
- Sewer Force Mains
- Water, Wastewater & Sewage Distribution

## CIOD DR18 & DR25 NON-PRESSURE & DRAINAGE FITTINGS

NACO fabricated C900/905 fittings are manufactured as a robust and corrosion-resistant alternative to cast iron pressure piping systems. Our fabricated PVC CIOD fittings have a dimensional ratio (DR18 or DR25) equal to or greater than that of the pipe from which they are fabricated. Our fabricated fittings shall be manufactured from segments of PVC pipe bonded together conforming to or exceeding the requirements of AWWA C900 and C905. Our C900/905 drainage & non-pressure fittings are gasketed "push-on" joint fittings with Rieber Elastomeric gaskets. Our fittings are engineered for use in some of the harshest drainage and non-pressure PVC piping environments.

NACO fabricated CIOD PVC fittings are ideal for conveying municipal sanitary & industrial wastes and storm water run-off in gravity flow, non-pressure applications. Non-Pressure drainage piping systems are most commonly installed in areas of high water tables and extremely deep burials.

NACO's C900/905 Non-Pressure fittings conform to and are designed for precisely connecting and marrying CIOD piping systems, both DR18 & DR25 applications.

C900 DR18 & DR25 fittings are manufactured in 6", 8", 10" and 12" sizes.

C905 DR18 & DR25 fittings are manufactured in 14", 16", 18", 20", 24", 30", and 36" sizes.

### Typical Applications::

- Sewer Force Mains
- Water, Wastewater & Sewage Distribution
- Gravity Drainage of Sewage
- Surface Water Gravity Drainage
- Sanitary & Storm Lateral Connections



## PROFILE & RIBBED FITTINGS

NACO Fabricated PVC Profile Pipe Fittings, frequently referred to as Corrugated or Ribbed pipe, are manufactured from solid wall SDR35 Sewer Pipe. NACO Profile Pipe Fittings are for use in gravity flow PVC sewer piping systems. NACO's fabricated profile pipe fittings are designed for use with and manufactured for the following profile pipes:

- A2000
- Ultra Rib
- Ultra Corr
- Corr21
- Pro21
- Vylon

Gaskets are supplied with every fitting order. Your projects particular make of profile pipe must be specified when ordering.

NACO fittings are manufactured to meet ASTM F794 standards. Our line of fittings include tees, wyes, crosses, bends, manhole adapters, couplers, plugs, and many others.

### Typical Applications:

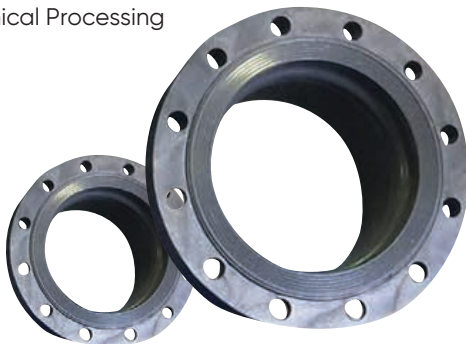
- Sanitary Sewer Systems
- Storm & Drainage Systems
- Industrial Lines
- Culvert Piping

## Flanges

The NACO product line includes fabricated CL150 Vanstone style flanges for almost any application. Flanges are available in all standard PVC sizes covering Schedule 40 & 80 along with IPS class, Sewer, C900 & C905, and PIP pipe. Our vast line of Vanstone flanges, including Socket, Spigot, and Gasket joint options make it possible to mate any combination of the above products in both pressure and/or drainage applications.

### Typical Applications:

- Material Transitions
- Valve Installation
- Pump Installation
- Water Treatment Plants
- Agricultural Applications
- Industrial Applications
- Water Distribution Systems
- Water and Sewage Treatment
- Pressure Sewers
- Irrigation Systems
- Chemical Processing



## Heat & Air Duct

NACO fabricated Heat & Air Duct PVC fittings are designed for superior performance and are ideal in numerous ducting & venting applications. Using corrosion-resistant PVC, our fabricated fittings are manufactured from segments of PVC pipe that meets or exceeds the requirements of ASTM D-1784. Our broad line of fabricated heat & air fittings cover virtually any specification or combination your project may require. Our fittings are manufactured to Heat and Air Duct Pipe Dimensions in the following intervals: 4" through 16" – SDR81 and 18" – 24" – SDR51. Fittings are also available in IPS & Sewer sizes.

Fittings include tees, wyes, saddles, bends, caps, couplers and more for use in Under-slab applications as well as raised floors and Crawl Space heating and air conditioning systems.



## Custom Fabrication

Our custom fabrication of pvc components will meet or exceed your particular standard or specification with regards to materials and workmanship. Each component will be manufactured to any applicable ASTM or ANSI standard that pertains to piping materials, solvent cements, solvent cement joints, gasket material, pipe threads, flange or bolt hole patterns, or any other applicable standard that may apply to your individual design.

## IPEX SALES & CUSTOMER SERVICE

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**nacopvc.com**

### About the IPEX Group of Companies

As leading suppliers of thermoplastic piping systems, the IPEX Group of Companies provides our customers with some of the largest and most comprehensive product lines. All IPEX products are backed by more than 50 years of experience. With state-of-the-art manufacturing facilities and distribution centers across North America, we have earned a reputation for product innovation, quality, end-user focus and performance.

Markets served by the IPEX group of Companies include:

- Electrical systems
- Telecommunications and utility piping systems
- Industrial process piping systems
- Municipal pressure and gravity piping systems
- Plumbing and mechanical piping systems
- Electrofusion systems for gas and water
- Industrial, plumbing and electrical cements
- Irrigation systems
- PVC, CPVC, PP, PVDF, PE, ABS, and PEX pipe and fittings

This literature is published in good faith and is believed to be reliable. However it does not represent and/or warrant in any manner the information and suggestions contained in this brochure. Data presented is the result of laboratory tests and field experience.

A policy of ongoing product improvement is maintained. This may result in modifications of features and/or specifications without notice.



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