

## Typical Lined Body Configuration

All lined bodies are 100% spark tested.

Unique liner anchoring design assures flatness of the sealing surface.

Exclusive sealing bead design ensures the seal to atmosphere as well as eliminating the stagnant/entrapment zone in competitive designs. Reduces turbulence.

All rubber and plastic lined bodies are injection molded through 8".

Uniform lining thickness is superior for thermal cycling conditions.

Cavity free, pocketless design ensures unrestricted flow and low-pressure drop.

Smooth weir finish guarantees consistent bubble-tight closure.

Gradual weir rise reduces turbulence and shear across the weir.

Lining at the bonnet flange sits above the metallic body reducing thermal stresses on the sealing surface.



316 - PFA lined

## Bodies

### CAST IRON NPT - FLANGED

ASTM A-126 Class B - General industrial services. Sulfuric acid 85% concentration and higher, alkalis, sugar refining, LP gas and vacuum services.

Maximum Temperature: Limited by diaphragm selection  
Size Range: NPT - .5" to 2", Flanged .5" to 12"  
Part Number: 3108 NPT, 4508 Flanged FF

### CAST CARBON STEEL NPT - FLANGED

ASTM A-216 Grade WCB Applications similar to Cast Iron above

Maximum Temperature: Limited by diaphragm selection  
Size Range: NPT - .5" to 2", Flanged .5" to 12"  
Part Number: 3111 NPT, 7011 Socket Weld, 3811 Flanged RF  
4411 Flanged FF

### 316 STAINLESS STEEL NPT, SOCKET WELD - FLANGED

Suitable for a wide range of chemical services.

Maximum Temperature: Limited by diaphragm selection  
Size Range: .5" to 2" NPT and Socket Weld, .5" to 6" Flanged  
Part Number: 3137 NPT, 7037 Socket Weld, 3B37 Flanged RF

### 316L STAINLESS STEEL (CF3M), - FLANGED

Excellent for acid, alkali and solvents services typical in the copper industry.

Maximum Temperature: Limited by diaphragm selection  
Size Range: .5" to 14"  
Part Number: 3844 Flanged RF, 4444 Flanged FF

### DUCTILE IRON WITH HARD RUBBER LINING (EBONITE) - FLANGED

Suitable for acid, effluent, brine, water treatment and water purification, plating services, pickling and galvanizing systems, sodium hydroxide and sodium hypochlorite.

Maximum Temperature: -20 F to 200 F  
Size Range: .5" - 12"  
Part Number: 4483

### DUCTILE IRON WITH BUTYL LINING - FLANGED

Excellent for hydrochloric, hydrofluoric and phosphoric acids, acid recovery systems, industrial gases and phosphate production except in the presence of floatation agents with high fatty acid content.

Maximum Temperature: -20 F to 250 F  
Size Range: .5" to 12"  
Part Number: 4488

### DUCTILE IRON WITH NEOPRENE LINING - FLANGED

Recommended for oils, fats and fatty acids, greases, oily water and phosphate production.

Maximum Temperature: -20 F to 220 F  
Size Range: .5" to 12"  
Part Number: 4487

### DUCTILE IRON WITH HYPALON LINING - FLANGED

Highly resistant to strong oxidizing agents. Exhibits very good chemical and abrasive resistance. Resistant to oily services..

Maximum Temperature: -20 F to 200 F  
Size Range: .5" to 12"  
Part Number: 4486

### DUCTILE IRON WITH POLYPROPYLENE LINING - FLANGED

Suitable for acid, effluent, brine, water treatment and water purification, plating services, pickling and galvanizing systems, food applications and drinking water. FDA approved.

Maximum Temperature: -20 F to 200 F  
Size Range: .75" to 8"  
Part Number: 3818

### DUCTILE IRON WITH PVDF LINING - FLANGED

Resistant to most inorganic acids and bases, chlorine services, solvents and alcohol services.

Maximum Temperature: -20 F to 275 F  
Size Range: .75" to 8"  
Part Number: 3885

### DUCTILE IRON WITH TEFZEL LINING - FLANGED

Resistant to most inorganic acids, dissolved salt solutions and solvents.

Maximum Temperature: -20 F to 300 F  
Size Range: .75" to 8"  
Part Number: 3862

### DUCTILE IRON WITH PFA LINING - FLANGED

A superior lining that is inert to strong mineral, oxidizing and inorganic acids. It is resistant to bases, halogens, metal salts, organic acids, hydrocarbons, alcohols, aldehydes, ketones, ethers, amines and esters. PFA's mechanical properties are superior to other liners at elevated temperatures.

Maximum Temperature: Limited by diaphragm selection  
Size Range: .75" to 4"  
Part Number: 3817

### 316 STAINLESS STEEL WITH PFA LINING - FLANGED

Lining properties as mentioned above. Stainless steel body for use in ultra-pure chemical applications eliminates concerns of oxide contamination from contact with iron. Also for use in severe atmospheres.

Maximum Temperature: Limited by diaphragm selection  
Size Range: .5" to 4"  
Part Number: 3839

### CAST IRON WITH ECTFE (HALAR) COATING - FLANGED

Excellent for strong mineral acids, oxidizing acids and alkalis. Suitable for corrosive environments as the entire body is coated. Not recommended for use with entrained solids.

Maximum Temperature: -20 F to 250 F  
Size Range: .5" to 12"

**Note: Please consult the factory for linings and body materials not listed above.**

**Note:** This reference is general in nature. For specific services please consult the factory or your local Gemü representative.

**Note:** The 3B, 38, 44, 45 and 70 prefix in the body part number refers to the North American standard flanged body length according to MSS-SP88. For other worldwide standards, please consult the factory.