

## Schedule 80 PVC Molded Fittings

- Type 1, Grade 1 (Cell Class 12454-B) meets ASTM D-1784.
- Approved by National Sanitation Foundation (NSF) for use with potable cold water.
- Meets ASTM D-2464 (threaded fittings).
- PTFE tape prevents galling of threaded fittings and is required for leak-tight threaded joints.
- Meets ASTM D-2467 (socket fittings).
- Gray in color.
- Most large diameter fittings 10" and above carry a pressure rating different from the pipe. Specify pressure requirements at time of order.

Part # Size (In.)

### Tee (SxSxS)

HA801002	1/4
HA801003	3/8
HA801005	1/2
HA801007	3/4
HA801010	1
HA801012	1 1/4
HA801015	1 1/2
HA801020	2
HA801025	2 1/2
HA801030	3
HA801040	4
HA801060	6
HA801080	8
HA801100M	10
HA801120M	12



### Reducing Tee (SxSxS)

HA801101	3/4 x 3/4 x 1/2
HA801130	1 x 1 x 1/2
HA801131	1 x 1 x 3/4
HA801157	1 1/4 x 1 1/4 x 3/4
HA801168	1 1/4 x 1 1/4 x 1
HA801210	1 1/2 x 1 1/2 x 3/4
HA801211	1 1/2 x 1 1/2 x 1
HA801212	1 1/2 x 1 1/2 x 1 1/4
HA801247	2 x 2 x 1/2
HA801248	2 x 2 x 3/4
HA801249	2 x 2 x 1
HA801251	2 x 2 x 1 1/2
HA801338	3 x 3 x 2
HA801420	4 x 4 x 2
HA801422	4 x 4 x 3
HA801530	6 x 6 x 3
HA801532	6 x 6 x 4
HA801585	8 x 8 x 6



### Tee (SxSxFT)

HA802005	1/2
HA802007	3/4
HA802010	1
HA802015	1 1/2
HA802020	2



### Tee (FTxFTxFT)

HA805002	1/4
HA805003	3/8
HA805005	1/2
HA805007	3/4



Part # Size (In.)

### Tee (FTxFTxFT) - cont.

HA805010	1
HA805012	1 1/4
HA805015	1 1/2
HA805020	2
HA805025	2 1/2
HA805030	3
HA805040	4

### 90 Degree Elbow (SxS)

HA806002	1/4
HA806003	3/8
HA806005	1/2
HA806007	3/4
HA806010	1
HA806012	1 1/4
HA806015	1 1/2
HA806020	2
HA806025	2 1/2
HA806030	3
HA806040	4
HA806060	6
HA806080	8
HA806100M	10
HA806120M	12



### 90 Degree Elbow (SxFT)

HA807005	1/2
HA807007	3/4
HA807010	1
HA807012	1 1/4
HA807015	1 1/2
HA807020	2
HA807030	3



### 90 Degree Elbow (FTxFT)

HA808002	1/4
HA808003	3/8
HA808005	1/2
HA808007	3/4
HA808010	1
HA808012	1 1/4
HA808015	1 1/2
HA808020	2
HA808025	2 1/2
HA808030	3
HA808040	4



### 45 Degree Elbow (SxS)

HA817002	1/4
HA817003	3/8
HA817005	1/2
HA817007	3/4
HA817010	1
HA817012	1 1/4
HA817015	1 1/2
HA817020	2
HA817025	2 1/2
HA817030	3
HA817040	4
HA817060	6
HA817080	8
HA817100M	10
HA817120M	12



Part #	Size (In.)
<b>45 Degree Elbow (FTxFT)</b>	
HA819002	1/4
HA819003	3/8
HA819005	1/2
HA819007	3/4
HA819010	1
HA819012	1 1/4
HA819015	1 1/2
HA819020	2
HA819025	2 1/2
HA819030	3
HA819040	4



**Coupling (SxS)**

HA829002	1/4
HA829003	3/8
HA829005	1/2
HA829007	3/4
HA829010	1
HA829012	1 1/4
HA829015	1 1/2
HA829020	2
HA829025	2 1/2
HA829030	3
HA829040	4
HA829060	6
HA829080	8
HA829100M	10
HA829120M	12



**Reducer Coupling (SxS)**

HA829101	3/4 x 1/2
HA829130	1 x 1/2
HA829131	1 x 3/4
HA829168	1 1/4 x 1
HA829211	1 1/2 x 1
HA829212	1 1/2 x 1 1/4
HA829251	2 x 1 1/2
HA829338	3 x 2
HA829422	4 x 3
HA829532	6 x 4
HA829585	8 x 6



**Coupling (FTxFT)**

HA830002	1/4
HA830003	3/8
HA830005	1/2
HA830007	3/4
HA830010	1
HA830012	1 1/4
HA830015	1 1/2
HA830020	2
HA830025	2 1/2
HA830030	3
HA830040	4



**Reducer Coupling (FTxFT)**

HA830101	3/4 x 1/2
HA830130	1 x 1/2
HA830131	1 x 3/4
HA830167	1 1/4 x 3/4
HA830211	1 1/2 x 1
HA830251	2 x 1 1/2



**Female Adapter (SxFT)**

HA835002	1/4
HA835003	3/8
HA835005	1/2
HA835007	3/4
HA835010	1
HA835012	1 1/4
HA835015	1 1/2
HA835020	2
HA835025	2 1/2
HA835030	3
HA835040	4



**Male Adapter (SxMT)**

HA836005	1/2
HA836007	3/4
HA836010	1
HA836012	1 1/4
HA836015	1 1/2
HA836020	2
HA836025	2 1/2
HA836030	3
HA836040	4
HA836060	6



**Cap (S)**

HA847002	1/4
HA847003	3/8
HA847005	1/2
HA847007	3/4
HA847010	1
HA847012	1 1/4
HA847015	1 1/2
HA847020	2
HA847025	2 1/2
HA847030	3
HA847040	4
HA847060	6
HA847080	8



**Cap (FT)**

HA848002	1/4
HA848003	3/8
HA848005	1/2
HA848007	3/4
HA848010	1
HA848012	1 1/4
HA848015	1 1/2
HA848020	2
HA848025	2 1/2
HA848030	3
HA848040	4



**Plug (MT)**

HA850002	1/4
HA850003	3/8
HA850005	1/2
HA850007	3/4
HA850010	1
HA850012	1 1/4
HA850015	1 1/2
HA850020	2
HA850025	2 1/2
HA850030	3
HA850040	4
HA850060	6



Part #	Size (In.)
<b>Union (SxS) EPDM O-ring, 235 psi max</b>	
HA897002	1/4
HA897003	3/8
HA897005	1/2
HA897007	3/4
HA897010	1
HA897012	1 1/4
HA897015	1 1/2
HA897020	2
HA897030	3
HA897040	4



Part #	Size (In.)
<b>Union (SxS) Viton O-ring, 235 psi max</b>	
HA857002	1/4
HA857003	3/8
HA857005	1/2
HA857007	3/4
HA857010	1
HA857012	1 1/4
HA857015	1 1/2
HA857020	2
HA857030	3
HA857040	4



Part #	Size (In.)
<b>Union (FTxFT) EPDM O-ring, 235 psi max</b>	
HA898002	1/4
HA898003	3/8
HA898005	1/2
HA898007	3/4
HA898010	1
HA898012	1 1/4
HA898015	1 1/2
HA898020	2
HA898030	3
HA898040	4



Part #	Size (In.)
<b>Union (FTxFT) Viton O-ring, 235 psi max</b>	
HA858002	1/4
HA858003	3/8
HA858005	1/2
HA858007	3/4
HA858010	1
HA858012	1 1/4
HA858015	1 1/2
HA858020	2
HA858030	3
HA858040	4



Part #	Size (In.)
<b>Reducer Bushing (SPxS)</b>	
HA837052	3/8 x 1/4
HA837072	1/2 x 1/4
HA837073	1/2 x 3/8
HA837101	3/4 x 1/2
HA837130	1 x 1/2
HA837131	1 x 3/4
HA837166	1 1/4 x 1/2
HA837167	1 1/4 x 3/4
HA837168	1 1/4 x 1
HA837209	1 1/2 x 1/2
HA837210	1 1/2 x 3/4
HA837211	1 1/2 x 1
HA837212	1 1/2 x 1 1/4
HA837247	2 x 1/2
HA837248	2 x 3/4
HA837249	2 x 1



Part #	Size (In.)
<b>Reducer Bushing (SPxS) - cont.</b>	
HA837250	2 x 1 1/4
HA837251	2 x 1 1/2
HA837291	2 1/2 x 1 1/2
HA837292	2 1/2 x 2
HA837335	3 x 1
HA837336	3 x 1 1/4
HA837337	3 x 1 1/2
HA837338	3 x 2
HA837339	3 x 2 1/2
HA837420	4 x 2
HA837422	4 x 3
HA837528	6 x 2
HA837530	6 x 3
HA837532	6 x 4
HA837585	8 x 6
HA837626M	10 x 6, 150 psi max
HA837628M	10 x 8, 150 psi max
HA837668M	12 x 8, 150 psi max
HA837670M	12 x 10, 150 psi max

**Reducer Bushing (SPxFT)**

HA838052	3/8 x 1/4
HA838071	1/2 x 1/8
HA838072	1/2 x 1/4
HA838073	1/2 x 3/8
HA838098	3/4 x 1/4
HA838101	3/4 x 1/2
HA838129	1 x 3/8
HA838130	1 x 1/2
HA838131	1 x 3/4
HA838166	1 1/4 x 1/2
HA838167	1 1/4 x 3/4
HA838168	1 1/4 x 1
HA838209	1 1/2 x 1/2
HA838210	1 1/2 x 3/4
HA838211	1 1/2 x 1
HA838212	1 1/2 x 1 1/4
HA838247	2 x 1/2
HA838248	2 x 3/4
HA838249	2 x 1
HA838250	2 x 1 1/4
HA838251	2 x 1 1/2
HA838287	2 1/2 x 1/2
HA838288	2 1/2 x 3/4
HA838289	2 1/2 x 1
HA838290	2 1/2 x 1 1/4
HA838291	2 1/2 x 1 1/2
HA838292	2 1/2 x 2
HA838334	3 x 3/4
HA838335	3 x 1
HA838336	3 x 1 1/4
HA838337	3 x 1 1/2
HA838338	3 x 2
HA838339	3 x 2 1/2
HA838420	4 x 2
HA838421	4 x 2 1/2
HA838422	4 x 3
HA838528	6 x 2
HA838530	6 x 3
HA838532	6 x 4



**Part # Size (In.)  
Reducer Bushing (MTxFT)**

HA839052	3/8 x 1/4
HA839072	1/2 x 1/4
HA839073	1/2 x 3/8
HA839098	3/4 x 1/4
HA839099	3/4 x 3/8
HA839101	3/4 x 1/2
HA839128	1 x 1/4
HA839129	1 x 3/8
HA839130	1 x 1/2
HA839131	1 x 3/4
HA839166	1 1/4 x 1/2
HA839167	1 1/4 x 3/4
HA839168	1 1/4 x 1
HA839209	1 1/2 x 1/2
HA839210	1 1/2 x 3/4
HA839211	1 1/2 x 1
HA839212	1 1/2 x 1 1/4
HA839247	2 x 1/2
HA839248	2 x 3/4
HA839249	2 x 1
HA839250	2 x 1 1/4
HA839251	2 x 1 1/2
HA839292	2 1/2 x 2
HA839337	3 x 1 1/2
HA839338	3 x 2
HA839339	3 x 2 1/2
HA839420	4 x 2
HA839422	4 x 3



**Wye (SxSxS)**

HA875005	1/2
HA875010	1
HA875012	1 1/4
HA875020	2
HA875030	3, 150 psi max
HA875040	4, 150 psi max
HA875060	6, 150 psi max
HA875532	6 x 6 x 4, 150 psi max



**Flange (Blind), 150 psi max**

HA853005	1/2
HA853007	3/4
HA853010	1
HA853012	1 1/4
HA853015	1 1/2
HA853020	2
HA853025	2 1/2
HA853030	3
HA853040	4
HA853060	6
HA853080	8
HA853100M	10
HA853120M	12



**Flange (S) - Van Stone Style, 150 psi max**

HA854005	1/2
HA854007	3/4
HA854010	1
HA854012	1 1/4
HA854015	1 1/2
HA854020	2
HA854025	2 1/2
HA854030	3
HA854040	4



**Part # Size (In.)  
Flange (S) - Van Stone Style, 150 psi max - cont.**

HA854050	5
HA854060	6
HA854080	8
HA854100M	10
HA854120M	12
HA854140M	14
HA854160M	16

**Flange (FT) - Van Stone Style, 150 psi max**

HA855005	1/2
HA855007	3/4
HA855010	1
HA855012	1 1/4
HA855015	1 1/2
HA855020	2
HA855025	2 1/2
HA855030	3
HA855040	4



**Flange (SP) - Van Stone Style, 150 psi max**

HA856005	1/2
HA856007	3/4
HA856010	1
HA856012	1 1/4
HA856015	1 1/2
HA856020	2
HA856025	2 1/2
HA856030	3
HA856040	4
HA856060	6
HA856080	8
HA856100M	10
HA856120M	12



**Schedule 80 PVC Fabricated Large-Diameter Fittings**

- Maximum velocity recommended is 5 feet per second
- Manufacturer's pressure ratings must be strictly followed, fittings do not carry same pressure rating as pipe.
- Sizes available up to 30".
- All fittings are fabricated using Type 1, Grade 1 PVC pipe meeting ASTM D-1784, 1785, or 2241.
- All seams are mitered, then welded using hot gas or butt fusion technique.

**Flange (Blind)**

HA853100M	10
HA853120M	12
HA853140*	14
HA853160*	16
HA853180*	18
HA853200*	20
HA853240*	24



\*Fabricated from 1" thick PVC sheet; 2" thick available on request

**Flange (S) - Van Stone Style**

HA854100M	10
HA854120M	12
HA854140M	14
HA854160M	16

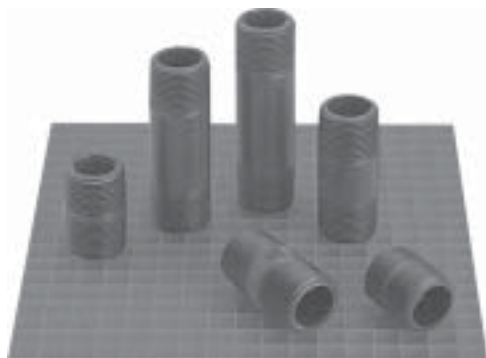


- Van Stone Style Flanges, 150 lb. ANSP
- Easier installation: Rotate back-up ring and align bolts in desired position

## Schedule 80 PVC Molded Fittings

### Pipe Nipples

Fittings are available in a wide variety of nipple lengths and for pipes of varying sizes.



Nipple lengths available (in inches):

5/8, 1 1/2, 2, 2 1/2, 3, 3 1/2, 4, 4 1/2, 5, 5 1/2, 6, 7, 8, 9, 10, 11, 12

Pipe sizes available (in inches):

1/8, 1/4, 3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4, 6

## Schedule 40 PVC Molded Fittings

Material Conforms to ASTM D-1784 Type 1, Grade 1, white PVC.

Meets, or exceeds, ASTM D-246 for socket type PVC fittings.

PTFE tape required for any threaded fittings.

Use with Schedule 40 PVC pipe or IPS-sized class (SDR) pipe (pressure rated) systems.

Applications include irrigation lines, plant service water, utility piping, potable water lines.

Part # Size (In.)

### Tee (SxSxS)

HA401003	3/8
HA401005	1/2
HA401007	3/4
HA401010	1
HA401012	1 1/4
HA401015	1 1/2
HA401020	2
HA401025	2 1/2
HA401030	3
HA401040	4
HA401050	5
HA401060	6
HA401080	8
HA401100M	10
HA401120M	12



### Reducing Tee (SxSxS)

HA401053	3/8 x 3/8 x 1/2
HA401074	1/2 x 1/2 x 3/4
HA401075	1/2 x 1/2 x 1
HA401094	3/4 x 1/2 x 1/2
HA401095	3/4 x 1/2 x 3/4
HA401101	3/4 x 3/4 x 1/2
HA401102	3/4 x 3/4 x 1
HA401122	1 x 1/2 x 1
HA401124	1 x 3/4 x 1/2
HA401125	1 x 3/4 x 3/4
HA401126	1 x 3/4 x 1
HA401130	1 x 1 x 1/2
HA401131	1 x 1 x 3/4
HA401132	1 x 1 x 1 1/4



Part # Size (In.)

### Reducing Tee (SxSxS) - cont.

HA401133	1 x 1 x 1 1/2
HA401156	1 1/4 x 1 x 1/2
HA401157	1 1/4 x 1 x 3/4
HA401158	1 1/4 x 1 x 1
HA401166	1 1/4 x 1 1/4 x 1/2
HA401167	1 1/4 x 1 1/4 x 3/4
HA401168	1 1/4 x 1 1/4 x 1
HA401169	1 1/4 x 1 1/4 x 1 1/2
HA401170	1 1/4 x 1 1/4 x 2
HA401199	1 1/2 x 1 1/4 x 1/2
HA401201	1 1/2 x 1 1/4 x 3/4
HA401202	1 1/2 x 1 1/4 x 1
HA401209	1 1/2 x 1 1/2 x 1/2
HA401210	1 1/2 x 1 1/2 x 3/4
HA401211	1 1/2 x 1 1/2 x 1
HA401212	1 1/2 x 1 1/2 x 1 1/4
HA401213	1 1/2 x 1 1/2 x 2
HA401214	1 1/2 x 1 1/2 x 2 1/2
HA401238	2 x 1 1/2 x 3/4
HA401239	2 x 1 1/2 x 1
HA401241	2 x 1 1/2 x 1 1/2
HA401247	2 x 2 x 1/2
HA401248	2 x 2 x 3/4
HA401249	2 x 2 x 1
HA 401250	2 x 2 x 1 1/4
HA401251	2 x 2 x 1 1/2
HA401287	2 1/2 x 2 1/2 x 1/2
HA401288	2 1/2 x 2 1/2 x 3/4
HA401289	2 1/2 x 2 1/2 x 1
HA401290	2 1/2 x 2 1/2 x 1 1/4
HA401291	2 1/2 x 2 1/2 x 1 1/2
HA401292	2 1/2 x 2 1/2 x 2
HA401333	3 x 3 x 1/2
HA401334	3 x 3 x 3/4
HA401335	3 x 3 x 1
HA401336	3 x 3 x 1 1/4
HA401337	3 x 3 x 1 1/2
HA401338	3 x 3 x 2
HA401342	3 x 3 x 4
HA401416	4 x 4 x 3/4
HA401417	4 x 4 x 1
HA401418	4 x 4 x 1 1/4
HA401419	4 x 4 x 1 1/2
HA401420	4 x 4 x 2
HA401422	4 x 4 x 3
HA401486	5 x 5 x 2
HA401488	5 x 5 x 3
HA401490	5 x 5 x 4
HA401528	6 x 6 x 2
HA401530	6 x 6 x 3
HA401532	6 x 6 x 4
HA401580	8 x 8 x 3
HA401582	8 x 8 x 4
HA401585	8 x 8 x 6

### Tee (SxSxFT)

HA402003	3/8
HA402005	1/2
HA402007	3/4
HA402010	1
HA402012	1 1/4
HA402015	1 1/2
HA402020	2



**Part # Size (In.)**

**Tee (SxSxFT) - cont.**

HA402025	2 1/2
HA402030	3
HA402040	4

**Reducing Tee (SxSxFT)**

HA402071	1/2 x 1/2 x 1/8
HA402072	1/2 x 1/2 x 1/4
HA402074	1/2 x 1/2 x 3/4
HA402094	3/4 x 1/2 x 1/2
HA402095	3/4 x 1/2 x 3/4
HA402101	3/4 x 3/4 x 1/2
HA402124	1 x 3/4 x 1/2
HA402125	1 x 3/4 x 3/4
HA402130	1 x 1 x 1/2
HA402131	1 x 1 x 3/4
HA402156	1 1/4 x 1 x 1/2
HA402157	1 1/4 x 1 x 3/4
HA402158	1 1/4 x 1 x 1
HA402166	1 1/4 x 1 1/4 x 1/2
HA402167	1 1/4 x 1 1/4 x 3/4
HA402168	1 1/4 x 1 1/4 x 1
HA402199	1 1/2 x 1 1/4 x 1/2
HA402201	1 1/2 x 1 1/4 x 3/4
HA402202	1 1/2 x 1 1/4 x 1
HA402209	1 1/2 x 1 1/2 x 1/2
HA402210	1 1/2 x 1 1/2 x 3/4
HA402211	1 1/2 x 1 1/2 x 1
HA402212	1 1/2 x 1 1/2 x 1 1/4
HA402238	2 x 1 1/2 x 3/4
HA402239	2 x 1 1/2 x 1
HA402247	2 x 2 x 1/2
HA402248	2 x 2 x 3/4
HA402249	2 x 2 x 1
HA402250	2 x 2 x 1 1/4
HA402251	2 x 2 x 1 1/2
HA402287	2 1/2 x 2 1/2 x 1/2
HA402288	2 1/2 x 2 1/2 x 3/4
HA402289	2 1/2 x 2 1/2 x 1
HA402290	2 1/2 x 2 1/2 x 1 1/4
HA402291	2 1/2 x 2 1/2 x 1 1/2
HA402333	3 x 3 x 1/2
HA402334	3 x 3 x 3/4
HA402335	3 x 3 x 1
HA402336	3 x 3 x 1 1/4
HA402337	3 x 3 x 1 1/2
HA402338	3 x 3 x 2
HA402417	4 x 4 x 1
HA402419	4 x 4 x 1 1/2
HA402420	4 x 4 x 2
HA402422	4 x 4 x 3
HA402490	5 x 5 x 4
HA402528	6 x 6 x 2
HA402530	6 x 6 x 3
HA402532	6 x 6 x 4
HA402580	8 x 8 x 3
HA402582	8 x 8 x 4



**90 Degree Elbow (SxS)**

HA406003	3/8
HA406005	1/2
HA406007	3/4
HA406010	1
HA406012	1 1/4
HA406015	1 1/2



**Part # Size (In.)**

**90 Degree Elbow (SxS) - cont.**

HA406020	2
HA406025	2 1/2
HA406030	3
HA406040	4
HA406050	5
HA406060	6
HA406080	8
HA406100M	10
HA406120M	12

**90 Degree Reducing Elbow (SxS)**

HA406053	3/8 x 1/2
HA406101	3/4 x 1/2
HA406130	1 x 1/2
HA406131	1 x 3/4
HA406166	1 1/4 x 1/2
HA406167	1 1/4 x 3/4
HA406168	1 1/4 x 1
HA406209	1 1/2 x 1/2
HA406211	1 1/2 x 1
HA406251	2 x 1 1/2



**90 Degree Elbow (SxFT)**

HA407005	1/2
HA407007	3/4
HA407010	1
HA407012	1 1/4
HA407015	1 1/2
HA407020	2
HA407025	2 1/2
HA407030	3
HA407040	4



**90 Degree Reducing Elbow (SxFT)**

HA407053	3/8 x 1/2
HA407074	1/2 x 3/4
HA407101	3/4 x 1/2
HA407130	1 x 1/2
HA407131	1 x 3/4
HA407168	1 1/4 x 1
HA407211	1 1/2 x 1
HA407212	1 1/2 x 1 1/4
HA407251	2 x 1 1/2



**90 Degree Street Elbow (SPxS)**

HA409005	1/2
HA409007	3/4
HA409010	1
HA409012	1 1/4
HA409015	1 1/2
HA409020	2



**90 Degree Street Elbow (MTxS)**

HA410005	1/2
HA410007	3/4
HA410010	1
HA410012	1 1/4
HA410015	1 1/2
HA410020	2
HA410101	3/4 x 1/2



**Part #      Size (In.)**  
**90 Degree Street Elbow (MTxFT)**

HA412005	1/2
HA412007	3/4
HA412010	1
HA412012	1 1/4
HA412015	1 1/2
HA412020	2



**90 Degree Side Outlet Elbow**

HA413005	1/2 - SxSxS
HA414005	1/2 - SxSxT
HA414007	3/4 - SxSxT
HA414101	3/4 x 3/4 x 1/2 - SxSxT
HA414130	1 x 1 x 1/2 - SxSxT



**45 Degree Elbow (SxS)**

HA417005	1/2
HA417007	3/4
HA417010	1
HA417012	1 1/4
HA417015	1 1/2
HA417020	2
HA417025	2 1/2
HA417030	3
HA417040	4
HA417050	5
HA417060	6
HA417080	8
HA417100M	10
HA417120M	12



**Cross (SxSxSxS)**

HA420005	1/2
HA420007	3/4
HA420010	1
HA420012	1 1/4
HA420015	1 1/2
HA420020	2
HA420025	2 1/2
HA420030	3
HA420040	4



**Coupling (SxS)**

HA429003	3/8
HA429005	1/2
HA429007	3/4
HA429010	1
HA429012	1 1/4
HA429015	1 1/2
HA429020	2
HA429025	2 1/2
HA429030	3
HA429040	4
HA429050	5
HA429060	6
HA429080	8



**Female Adapter (SxFT)**

HA435003	3/8
HA435005	1/2
HA435007	3/4
HA435010	1
HA435012	1 1/4
HA435015	1 1/2
HA435020	2



**Part #      Size (In.)**  
**Female Adapter (SxFT) - cont.**

HA435025	2 1/2
HA435030	3
HA435040	4
HA435050	5
HA435060	6
HA435080	8
HA435072	1/2 x 1/4
HA435073	1/2 x 3/8
HA435074	1/2 x 3/4
HA435101	3/4 x 1/2
HA435102	3/4 x 1
HA435131	1 x 3/4
HA435133	1 x 1/2

**Male Adapter (SxMT)**

HA436003	3/8
HA436005	1/2
HA436007	3/4
HA436010	1
HA436012	1 1/4
HA436015	1 1/2
HA436020	2
HA436025	2 1/2
HA436030	3
HA436040	4
HA436050	5
HA436060	6
HA436080	8
HA436073	1/2 x 3/8
HA436074	1/2 x 3/4
HA436101	3/4 x 1/2
HA436102	3/4 x 1
HA436131	1 x 3/4
HA436132	1 x 1 1/4
HA436168	1 1/4 x 1
HA436169	1 1/4 x 1 1/2
HA436212	1 1/2 x 1 1/4
HA436213	1 1/2 x 2
HA436251	2 x 1 1/2
HA436252	2 x 2 1/2
HA436294	2 1/2 x 3
HA436296	2 1/2 x 4
HA436342	3 x 4



**Reducer Bushing (SPxS)**

HA437072	1/2 x 1/4
HA437073	1/2 x 3/8
HA437101	3/4 x 1/2
HA437130	1 x 1/2
HA437131	1 x 3/4
HA437166	1 1/4 x 1/2
HA437167	1 1/4 x 3/4
HA437168	1 1/4 x 1
HA437209	1 1/2 x 1/2
HA437210	1 1/2 x 3/4
HA437211	1 1/2 x 1
HA437212	1 1/2 x 1 1/4
HA437247	2 x 1/2
HA437248	2 x 3/4
HA437249	2 x 1
HA437250	2 x 1 1/4
HA437251	2 x 1 1/2
HA437287	2 1/2 x 1/2
HA437288	2 1/2 x 3/4



Part #	Size (In.)
<b>Reducer Bushing (SPxS) - cont.</b>	
HA437289	2 1/2 x 1
HA437290	2 1/2 x 1 1/4
HA437291	2 1/2 x 1 1/2
HA437292	2 1/2 x 2
HA437334	3 x 3/4
HA437335	3 x 1
HA437336	3 x 1 1/4
HA437337	3 x 1 1/2
HA437338	3 x 2
HA437339	3 x 2 1/2
HA437420	4 x 2
HA437421	4 x 2 1/2
HA437422	4 x 3
HA437486	5 x 2
HA437488	5 x 3
HA437490	5 x 4
HA437528	6 x 2
HA437530	6 x 3
HA437532	6 x 4
HA437534	6 x 5
HA437582	8 x 4
HA437585	8 x 6
HA437626M	10 x 6, 150 psi max
HA437628M	10 x 8, 150 psi max
HA437668M	12 x 8, 150 psi max
HA437670M	12 x 10, 150 psi max

**Reducer Bushing (SPxFT)**

HA438071	1/2 x 1/8
HA438072	1/2 x 1/4
HA438073	1/2 x 3/8
HA438098	3/4 x 1/4
HA438101	3/4 x 1/2
HA438129	1 x 3/8
HA438130	1 x 1/2
HA438131	1 x 3/4
HA438166	1 1/4 x 1/2
HA438167	1 1/4 x 3/4
HA438168	1 1/4 x 1
HA438207	1 1/2 x 1/4
HA438209	1 1/2 x 1/2
HA438210	1 1/2 x 3/4
HA438211	1 1/2 x 1
HA438212	1 1/2 x 1 1/4
HA438245	2 x 1/4
HA438247	2 x 1/2
HA438248	2 x 3/4
HA438249	2 x 1
HA438250	2 x 1 1/4
HA438251	2 x 1 1/2
HA438287	2 1/2 x 1/2
HA438288	2 1/2 x 3/4
HA438289	2 1/2 x 1
HA438290	2 1/2 x 1 1/4
HA438291	2 1/2 x 1 1/2
HA438292	2 1/2 x 2
HA438334	3 x 3/4
HA438335	3 x 1
HA438336	3 x 1 1/4
HA438337	3 x 1 1/2
HA438338	3 x 2
HA438339	3 x 2 1/2
HA438420	4 x 2
HA438421	4 x 2 1/2



Part #	Size (In.)
<b>Reducer Bushing (SPxFT) - cont.</b>	
HA438422	4 x 3
HA438488	5 x 3
HA438490	5 x 4
HA438528	6 x 2
HA438530	6 x 3
HA438532	6 x 4
HA438534	6 x 5

**Reducer Bushing (MTxFT)**

HA439052	3/8 x 1/4
HA439072	1/2 x 1/4
HA439073	1/2 x 3/8
HA439098	3/4 x 1/4
HA439099	3/4 x 3/8
HA439101	3/4 x 1/2
HA439130	1 x 1/2
HA439131	1 x 3/4
HA439166	1 1/4 x 1/2
HA439167	1 1/4 x 3/4
HA439168	1 1/4 x 1
HA439209	1 1/2 x 1/2
HA439210	1 1/2 x 3/4
HA439211	1 1/2 x 1
HA439212	1 1/2 x 1 1/4
HA439249	2 x 1
HA439250	2 x 1 1/4
HA439251	2 x 1 1/2
HA439292	2 1/2 x 2
HA439338	3 x 2
HA439339	3 x 2 1/2



**Cap (S)**

HA447003	3/8
HA447005	1/2
HA447007	3/4
HA447010	1
HA447012	1 1/4
HA447015	1 1/2
HA447020	2
HA447025	2 1/2
HA447030	3
HA447040	4
HA447050	5
HA447060	6
HA447080	8



**Cap (FT)**

HA448003	3/8
HA448005	1/2
HA448007	3/4
HA448010	1
HA448012	1 1/4
HA448015	1 1/2
HA448020	2
HA448025	2 1/2
HA448030	3
HA448040	4
HA448050	5
HA448060	6



Part # Size (In.)

**Plug (SP)**

HA449003	3/8
HA449005	1/2
HA449007	3/4
HA449010	1
HA449012	1 1/4
HA449015	1 1/2
HA449020	2
HA449025	2 1/2
HA449030	3
HA449040	4



**Plug (MT)**

HA450003	3/8
HA450005	1/2
HA450007	3/4
HA450010	1
HA450012	1 1/4
HA450015	1 1/2
HA450020	2
HA450025	2 1/2
HA450030	3
HA450040	4
HA450060	6



**Union (SxS), Buna O-ring; EPDM available)**

HA457005	1/2
HA457007	3/4
HA457010	1
HA457012	1 1/4
HA457015	1 1/2
HA457020	2



**Union (FTxFT), Buna O-ring; EPDM available)**

HA458005	1/2
HA458007	3/4
HA458010	1
HA458012	1 1/4
HA458015	1 1/2
HA458020	2



**Snap-On Saddle (Pipe O.D. xS)**

HA463005	1/2 x 1/2
HA463007	3/4 x 3/4
HA463010	1 x 1
HA463012	1 1/4 x 1 1/4
HA463015	1 1/2 x 1 1/2
HA463020	2 x 2
HA463101	3/4 x 1/2
HA463130	1 x 1/2



**Snap-On Saddle (Pipe O.D. xFT)**

HA464005	1/2 x 1/2
HA464007	3/4 x 3/4
HA464010	1 x 1
HA464101	3/4 x 1/2
HA464130	1 x 1/2
HA464210	1 1/2 x 3/4



**Fitting Adapter (SPxFT)**

HA478005	1/2
HA478007	3/4
HA478010	1
HA478012	1 1/4



Part # Size (In.)

**Fitting Adapter (SPxFT) - cont.**

HA478015	1 1/2
HA478020	2
HA478030	3
HA478040	4

**Schedule 40 - PVC Fabricated Large-Diameter Fittings**

- Maximum velocity recommended is 5 feet per second.
- Manufacturers' pressure ratings must be strictly followed; fittings do not carry the same pressure ratings as the pipe.
- Sizes available up to 30'.
- All fittings are fabricated using Type 1, Grade 1 PVC pipe meeting ASTM D-1784, 1785, or 2241.
- All seams are mitered, then welded using the hot gas or butt fusion technique.
- Fiberglass reinforced where required.
- Special angle elbows available upon request.

**45 Degree Elbow (SxS)**

HA417100	10
HA417120	12
HA417140	14
HA417160	16
HA417180	18
HA417200	20
HA417240	24



**Flange (Blind)**

HA453100	10
HA453120	12
HA453140*	14
HA453160*	16
HA453180*	18
HA453200*	20
HA453240*	24



\* Fabricated from 1" thick PVC sheet

**PVC Compression Fittings - "Clamp It" Tapping Saddles**

Conforms to performance criteria for 200 psi-rated systems. Manufactured from PVC-1 material impact modified for rough handling. ASTM D-1784, cell class 12454-B. ASTM D-2241, D-2466, D-3139, and D-1599 for dimensions and testing performance. Buna-N seals suitable for noncorrosive fluid environments, including petroleum products. For use in water distribution and industrial piping systems for quick, easy installation. Includes clamping wedge and O-ring seal.



Available in IPS pipe sizes 2" through 8" with outlet sizes of 3/4" through 2" solvent weld socket or female threads.

## Clear Rigid PVC pipe and fittings

### Near Water Clear Rigid PVC Pipe

Part #	Size (in.)	Average O.D.	Average I.D.	Min. wall Thickn.	Working Weight/press.	Foot
HA400CL005H	1/2	.840	.608	.109	300	.161
HA400CL007H	3/4	1.05	.810	.113	240	.214
HA400CL010H	1	1.315	1.033	.133	220	.315
HA400CL015H	1 1/2	1.90	1.592	.145	170	.509
HA400CL020H	2	2.375	2.049	.154	140	.682
HA400CL025H	2 1/2	2.875	2.445	.203	150	1.076
HA400CL030H	3	3.50	3.042	.216	130	1.409
HA400CL035H	3 1/2	4.00	3.520	.226	120	1.697
HA400CL040H	4	4.50	3.998	.237	110	2.006
HA400CL065H	6 x1/8	6.625	6.355	.125	45	1.647
HA400CL060H	6	6.625	6.031	.280	90	3.535
HA400CL080H	8	8.625	7.943	.322	80	5.305



Clear Rigid PVC Pipe

### Chlorinated Polyvinyl Chloride (CPVC)

- Handles temperatures up to 210 degrees F.
- Not affected by soil in buried applications; requires water-based latex paint for outdoor, sunlight-exposed installations.
- Low thermal conductivity.
- Self-extinguishing; will not sustain combustion.
- Material conforms to ASTM F441, Type IV, Grade 1.
- Conforms to U.S. Product Standard PS 21-70 as having the same O.D. as iron pipe.
- National Sanitation Foundation (NSF) approved for pipe sizes 1/2" through 12" for use in potable water service.
- Standard length: 20 feet; medium gray in color.
- Economy of installation and maintenance.

### Schedule 80 CPVC Pipe

Part #	Pipe Size (in.)	Maximum Pressure - @ 180 F	Working @ 73.4 F	Approx. Wt. / 100 ft. (lbs.)	Outside Diameter (in.)	Min. wall Thickn. (in.)
HA800C002	1/4	283	1130	11.9	.540	.119
HA800C003	3/8	230	920	16.5	.675	.126
HA800C005	1/2	213	850	24.3	.840	.147
HA800C007	3/4	173	690	32.9	1.05	.154
HA800C010	1	157	630	48.5	1.315	.179
HA800C012	1 1/4	130	520	66.9	1.66	.191
HA800C015	1 1/2	118	470	81.1	1.90	.200
HA800C020	2	100	400	108.5	2.375	.218
HA800C025	2 1/2	106	425	165.4	2.875	.276
HA800C030	3	94	375	221.3	3.50	.300
HA800C040	4	81	324	323.4	4.50	.337
HA800C060	6	70	280	616.8	6.625	.432
HA800C080	8	62	250	924.0	8.625	.510
HA800C100	10	57	230	1285.0	10.750	.595
HA800C120	12	57	230	1846.0	12.750	.687



### Schedule 80 CPVC Pipe

### Schedule 80 CPVC Fittings

*\*\*Do not test or use CPVC piping for air or compressed gases.  
\*\*Care should be taken to avoid ketones, chlorinated hydrocarbon and aromatic solvents.*

Part #	Size (In.)
<b>Tee (SxSxS)</b>	
HA801C005	1/2
HA801C010	1
HA801C015	1 1/2
HA801C020	2
HA801C025	2 1/2
HA801C030	3
HA801C040	4
HA801C060	6
HA801C080	8
HA801C100M	10 - 150 psi max
HA801C120M	12 - 150 psi max



### Reducing Tee (SxSxS)

HA801C202	1 1/2 x 1 1/4 x 1
HA801C210	1 1/2 x 1 1/2 x 3/4
HA801C211	1 1/2 x 1 1/2 x 1
HA801C247	2 x 2 x 1/2
HA801C248	2 x 2 x 3/4
HA801C249	2 x 2 x 1
HA801C251	2 x 2 x 1 1/2
HA801C338	3 x 3 x 2
HA801C420	4 x 4 x 2
HA801C422	4 x 4 x 3
HA801C532	6 x 6 x 4
HA801C585	8 x 8 x 6



### Tee (SxSxFT)

HA802C005	1/2
HA802C007	3/4
HA802C010	1

### Tee (FTxFTxFT)

HA805C005	1/2
HA805C010	1
HA805C015	1 1/2
HA805C020	2
HA805C025	2 1/2
HA805C030	3
HA805C040	4



Part #	Size (In.)
<b>90 Degree Elbow (SxS)</b>	
HA806C005	1/2
HA806C010	1
HA806C015	1 1/2
HA806C020	2
HA806C025	2 1/2
HA806C030	3
HA806C040	4
HA806C060	6
HA806C080	8
HA806C100M	10 - 150 psi max.
HA806C120M	12 - 150 psi max.



<b>90 Degree Elbow (SxFT)</b>	
HA807C005	1/2
HA807C010	1
HA807C015	1 1/2
HA807C020	2



<b>90 Degree Elbow (FTxFT)</b>	
HA808C005	1/2
HA808C010	1
HA808C015	1 1/2
HA808C020	2
HA808C025	2 1/2
HA808C030	3
HA808C040	4



<b>45 Degree Elbow (SxS)</b>	
HA817C005	1/2
HA817C010	1
HA817C015	1 1/2
HA817C020	2
HA817C025	2 1/2
HA817C030	3
HA817C040	4
HA817C060	6
HA817C080	8
HA817C100M	10 - 150 psi max.
HA817C120M	12 - 150 psi max.



<b>45 Degree Elbow (FTxFT)</b>	
HA819C005	1/2
HA819C010	1
HA819C015	1 1/2
HA819C020	2
HA819C025	2 1/2
HA819C030	3
HA819C040	4



<b>Coupling (SxS)</b>	
HA829C005	1/2
HA829C010	1
HA829C015	1 1/2
HA829C020	2
HA829C025	2 1/2
HA829C030	3
HA829C040	4
HA829C060	6
HA829C080	8



Part #	Size (In.)
<b>Reducer Coupling (SxS)</b>	
HA829C209	1 1/2 x 1/2
HA829C210	1 1/2 x 3/4
HA829C211	1 1/2 x 1
HA829C212	1 1/2 x 1 1/4
HA829C248	2 x 3/4
HA829C249	2 x 1
HA829C250	2 x 1 1/4
HA829C251	2 x 1 1/2
HA829C338	3 x 2
HA829C420	4 x 2
HA829C422	4 x 3
HA829C532	6 x 4
HA829C585	8 x 6



<b>Coupling (FTxFT)</b>	
HA830C005	1/2
HA830C010	1
HA830C015	1 1/2
HA830C020	2
HA830C025	2 1/2
HA830C030	3
HA830C040	4



<b>Female Adapter (SxFT)</b>	
HA835C005	1/2
HA835C010	1
HA835C015	1 1/2
HA835C020	2
HA835C025	2 1/2
HA835C030	3
HA835C040	4



<b>Male Adapter (SxMT)</b>	
HA836C015	1 1/2
HA836C020	2
HA836C025	2 1/2
HA836C030	3
HA836C040	4



<b>Reducer Bushing (SPxS)</b>	
HA837C211	1 1/2 x 1
HA837C212	1 1/2 x 1 1/4
HA837C247	2 x 1/2
HA837C248	2 x 3/4
HA837C249	2 x 1
HA837C250	2 x 1 1/4
HA837C251	2 x 1 1/2
HA837C292	2 1/2 x 2
HA837C335	3 x 1
HA837C336	3 x 1 1/4
HA837C337	3 x 1 1/2
HA837C338	3 x 2
HA837C339	3 x 2 1/2
HA837C420	4 x 2
HA837C422	4 x 3
HA837C528	6 x 2
HA837C530	6 x 3
HA837C532	6 x 4
HA837C585	8 x 6
HA837C626M	10 x 6 - 150 psi max.
HA837C628M	10 x 8 - 150 psi max.
HA837C668M	12 x 8 - 150 psi max.
HA837C670M	12 x 10 - 150 psi max.



**Part #      Size (In.)**  
**Reducer Bushing (SPxFT)**

HA838C130	1 x 1/2
HA838C131	1 x 3/4
HA838C166	1 1/4 x 1/2
HA838C167	1 1/4 x 3/4
HA838C168	1 1/4 x 1
HA838C209	1 1/2 x 1/2
HA838C210	1 1/2 x 3/4
HA838C211	1 1/2 x 1
HA838C212	1 1/2 x 1 1/4
HA838C247	2 x 1/2
HA838C248	2 x 3/4
HA838C249	2 x 1
HA838C250	2 x 1 1/4
HA838C251	2 x 1 1/2
HA838C287	2 1/2 x 1/2
HA838C288	2 1/2 x 3/4
HA838C289	2 1/2 x 1
HA838C290	2 1/2 x 1 1/4
HA838C291	2 1/2 x 1 1/2
HA838C292	2 1/2 x 2
HA838C334	3 x 3/4
HA838C335	3 x 1
HA838C336	3 x 1 1/4
HA838C337	3 x 1 1/2
HA838C338	3 x 2
HA838C339	3 x 2 1/2
HA838C420	4 x 2
HA838C421	4 x 2 1/2
HA838C422	4 x 3
HA838C530	6 x 3
HA838C532	6 x 4



**Reducer Bushing (MTxFT)**

HA839C209	1 1/2 x 1/2
HA839C211	1 1/2 x 3/4
HA839C211	1 1/2 x 1
HA839C212	1 1/2 x 1 1/4
HA839C247	2 x 1/2
HA839C248	2 x 3/4
HA839C249	2 x 1
HA839C250	2 x 1 1/4
HA839C251	2 x 1 1/2
HA839C292	2 1/2 x 2
HA839C337	3 x 1 1/2
HA839C338	3 x 2
HA839C339	3 x 2 1/2
HA839C420	4 x 2
HA839C422	4 x 3



**Cap (S)**

HA847C005	1/2
HA847C010	1
HA847C015	1 1/2
HA847C020	2
HA847C025	2 1/2
HA847C030	3
HA847C040	4
HA847C060	6
HA847C080	8



**Part #      Size (In.)**  
**Cap (FT)**

HA848C002	1/4
HA848C003	3/8
HA848C005	1/2
HA848C007	3/4
HA848C010	1
HA848C012	1 1/4
HA848C015	1 1/2
HA848C020	2
HA848C025	2 1/2
HA848C030	3
HA848C040	4



**Plug (MT)**

HA850C002	1/4
HA850C003	3/8
HA850C005	1/2
HA850C007	3/4
HA850C010	1
HA850C012	1 1/4
HA850C015	1 1/2
HA850C020	2



**Flange (Blind) - 150 psi max.**

HA853C015	1 1/2
HA853C020	2
HA853C025	2 1/2
HA853C030	3
HA853C040	4
HA853C060	6
HA853C080	8
HA853C100M	10
HA853C120M	12



**Flange (S) - Van Stone Style - 150 psi max.**

HA854C015	1 1/2
HA854C020	2
HA854C025	2 1/2
HA854C030	3
HA854C040	4
HA854C060	6
HA854C080	8
HA854C100M	10
HA854C120M	12



**Flange (FT) - Van Stone Style - 150 psi max.**

HA855C015	1 1/2
HA855C020	2
HA855C025	2 1/2
HA855C030	3
HA855C040	4



**Flange (SP) - Van Stone Style\***

HA856C020	2
HA856C025	2 1/2
HA856C030	3
HA856C040	4
HA856C060	6
HA856C080	8



\* Maximum 150 psi internal pressure rating @ 73 degrees F.

Part # Size (In.)

**Union (SxS) - Viton O-ring\***

HA857C015	1 1/2
HA857C020	2
HA857C030	3
HA857C040	4



\* Maximum 235 psi pressure rating @ 73 degrees F.

**Union (FTxFT) - Viton O-ring\***

HA858C015	1 1/2
HA858C020	2
HA858C030	3
HA858C040	4



\* Maximum 235 psi pressure rating @ 73 degrees F.

**Union (SxS) - EPDM O-ring\***

HA897C015	1 1/2
HA897C020	2
HA897C030	3
HA897C040	4



\* Maximum 235 psi pressure rating @ 73 degrees F.

**Wye (SxSxS)**

HA875C015	1 1/2
HA875C020	2
HA875C030	3
HA875C040	4
HA875C060	6
HA875C532	6x6x4



**Union (FTxFT) - EPDM O-ring\***

HA898C015	1 1/2
HA898C020	2
HA898C030	3
HA898C040	4



\* Maximum 235 psi pressure rating @ 73 degrees F.

**Solvent Cements - Primers and Accessories**

**705 PVC**

- Application temperature 40 degrees F to 110 degrees F.
- Clear thixotropic (slow-flowing) medium bodied, fast curing, high strength.
- For PVC pipe of all classes and schedules through 6" diameter with fittings having interference type sockets - Schedule 80 through 4".
- For potable water, pressure pipe, gas, conduit and drain, waste & vent.



705 PVC

**711 PVC**

- Application temperature 40 degrees F to 110 degrees F.
- Gray, heavy-bodied, medium setting, high strength.
- Medium set allows more working time in warm weather.
- For PVC pipe in all classes and schedules through 12", especially formulated for large sizes.

**711 PVC - cont.**

- Good gap filling properties.
- For potable water, pressure pipe, gas, conduit, drain pipe, and drain, waste, & vent (DWV).



711 PVC

**714 CPVC**

- Medium set permits more working time in warm weather.
- Gray or orange, heavy-bodied, medium-setting for all classes and schedules through 12" diameter.
- NSF approved, meets ASTM D-2846 & F-493 standards for potable water, pressure pipe and industrial systems.
- Moderate gap filling properties.



714 PVC

**717 PVC**

- Clear or gray, heavy-bodied, medium-setting, high strength for all schedules and classes through 12".
- Somewhat slower curing rate than 711, allowing more open time.
- Excellent gap filling properties.
- Absorbs less moisture under damp or wet conditions than 711.



717 PVC

**719 PVC**

- Gray, extra-heavy bodied, thixotropic (slow-flowing), high strength for all classes and schedules through 30" diameter.
- Slow set makes 719 a good hot weather cement on large-diameter pipe.
- Excellent gap filling properties; good fabrication cement.



719 PVC

**724 CPVC**

- Low VOC.
- Gray, heavy-bodied, fast-setting for all classes and schedules through 12" diameter.
- Meets ASTM F-493 standards.
- Formulated for improved chemical resistance to caustics including hypochlorite solutions.
- Approved for Corzan Industrial Systems.



**724 CPVC**

**729 CPVC**

- Low VOC.
- Gray, extra heavy-bodied, slow-setting for all class and schedule piping and duct through 24" diameter.
- Meets ASTM F-493.



**729 CPVC**

**P-70 Primer**

- Application temperature 40 degrees F to 110 degrees F.
- Excellent for cold weather applications.
- Meets ASTM F-656 and NSF standards.
- Use with both low VOC and standard cement.
- P-70 is the most aggressive primer commercially available to penetrate and soften bonding surfaces of pipe and fittings.
- For use with all types and schedules of PVC and CPVC cements.
- Do not use as a thinner for cement.



**P-70 Primer**

\*\*Warning: IPS Weld-On products must never be used in systems using or being tested by compressed air or gases.

**Flange Joining Gaskets and Accessories**

The patented components of the KC sealing system are designed to provide optimal flanged joint connections. Superior results over alternative conventional products may be obtained by using either the AC backing flange or low-torque gasket.



**Beveled AC Backing Flange features:**

- Designed to direct the clamping force toward the pipe I.D.
- Keeps flanges square during installation and operation; will, over time, return a "cupped" flange adapter to its original flat state.
- Available in mild steel-thermoplastic coated, galvanized and primed, and stainless steel.
- Fits wide variety of pipe styles and bolt patterns.
- Available in D style for hanging pipe or attaching vertical runs to skid frames.
- Split for use on existing piping systems.
- Specialty materials and dimensions available.

**Low-Torque Gasket Design features:**

- Provides a positive seal at up to 50% lower bolt load.
- Seals evenly around entire flange face.
- Ultrapure gaskets available in expanded PTFE and KRYSTLE-CLEAR (an elastomeric material for low ozone applications).
- Cleaned and bagged for immediate use.
- Universal gasket fits both socket fusion and butt-weld flange adapters; ring style gaskets also available.
- Available to fit schedule 10 weldneck flanges and both old and new ANSI flange styles.
- Specialty materials and dimensions available.



**SmartBox Installation Tool**

- Control box calibrated to the recommended bolt torque for the KC Multi-Ring gasket for each pipe size.
- Combined with standard 1/2" drive electric impact wrench.
- Allows progressive multi-pass tightening to keep joints square and reduce installation time.



Part #	Size (in.)
<b>Neoprene - Flange Gaskets only</b>	
HA154700080	8
HA154700100	10
HA154700120	12



**Bolt Packs - with 316 SS fasteners**

HA15401020	2
HA15401030	2 1/2, 3
HA15401040	4
HA15401080	5, 6, 8



**Pipe and Fittings - High Performance AV Gaskets**

**Features:**

- Unique ring design for optimum sealing with less torque required than with flat-faced gaskets.
- Patented laminating process for bonding PTFE to EPDM which produces greater elasticity as required for lower sealing torques.
- ANSI full-face dimensions.
- EPDM hardness of 65 degrees to 66 degrees (Durometer A).
- Ideal for thermoplastic piping systems.

Part #                      Size (in.)

**EPDM**

HA3113015	1 1/2
HA3113020	2
HA3113025	2 1/2
HA3113030	3
HA3113040	4
HA3113060	6
HA3113080	8



**Check Valves (Swing)**

- Use on irrigation systems, and for preventing backflow of corrosive materials; use where minimum head loss or flow resistance is required, or in swimming pools, hot tubs, or spa applications.
- Angle seat and weighted flapper design for low pressure seal.
- PVC weighted and shielded flapper retains back pressure up to 125 psi.
- Solvent weld or compression ends.
- Compression style for IPS-sized plastic or metal pipe; can be used as union connections.
- Designed for both horizontal or vertical usage.

Part #                      Size (in.)

**Check Valves (Swing)**

*PVC Socket Ends*

HA152015	1 1/2
HA152020	2
HA152030	3
HA152040	4



*PVC Compression Ends*

HA150015	1 1/2
HA150020	2
HA150030	3

**PVC Valves (Spring Check)**

Tapered valve body design and enlarged valve chamber reduce chatter and turbulence.

Raised radius valve seat; a Buna-N seal for a positive seal. Stainless steel springload of 1/2 psi; optional 2 psi available. Solvent weld or female thread connections. Iron pipe sized.

Pressure rated 200 psi at 72 degrees F. NSF listed SE-14 for potable water service. PVC white, clear body available.



Part #                      Socket Part #                      Size (in.)

**PVC Valves (Spring Check)**

HA100115	HA101115	1 1/2
HA100120	HA101120	2

**Check Valves (Swing Posi-Check)**

- For positive prevention of backflow of highly corrosive materials in wastewater lines, sump pump disposal lines, sewage lift stations or ejector systems.
- Angled EPDM seat and CPVC weighted flapper design requires approximately 1/2 psi or 1.5 foot of water column to seal.
- Short laying length facilitates easy installation in tight spaces.

Part #                      Size (in.)

*CPVC Posi-Check/Socket ends*

**Check Valves (Swing)**

HAH1520CP150	1 1/2
HAH1520CP200	2
HAH1520CP300	3
HAH1520CP400	4



**Foot Valve Screens**

- Designed for use with Flo Control Series 1001 valves.
- Manufactured from high density polyethylene material.
- Self-cleaning screen 100 mesh.

Part #                      Size (in.)

**Foot Valve Screens (MT)**

*Polyethylene*

HA180015	1 1/2
HA180020	2



**Pipe Hangers**

**Clie Pipe Hangers** - The one-piece nylon construction comes with only one mounting hole and can be mounted directly on concrete, cinderblock, brick or wood. Once the supports are screwed in, simply push the pipe in and it automatically locks into place. Ten sizes are available from 3" to 4" pipe.

*Please call for specifications and further information.*



**Framing Channel** - This framing channel is available in 10 and 20 foot lengths. Totally corrosion resistant. Easy to cut, drill, and assemble. Lightweight and non-conductive. Channel is available in polyester (general purpose) and vinyl ester resin (extremely corrosion resistant).

*Polyester Resin (general purpose)*

RH1950004	Channel frame 1 5/8" x 1 5/8" heavy-duty
RH1950006	Channel frame 1 5/8" x 1" heavy-duty
RH1950010	Double-channel frame 1 5/8" x 3 3/8" heavy-duty

*Vinyl Ester Resin (extremely corrosion resistant)*

RH1952004	Channel frame 1 5/8" x 1 5/8" heavy duty
RH1952010	Double channel frame 1 5/8" x 3 1/4"



**Strut Post Base** - Vinyl ester resin base is available for both single and double strut.

RH1958304	Single strut
RH1958310	Double strut



**Non-metallic Pipe Clamps** - For rigid steel, PVC, and CPVC Sch. 40 & 80, as well as fiberglass pipe and conduits. Nuts and bolts are included. Pipe clamps for pipes are available in 1/2" to 4".



**Non Metallic Pipe Clamps**