



UPVC & CPVC



UPVC and CPVC Sch40 / Sch80

PIPE / FITTING / VALVE

PRODUCTS ARE GOOD AT CORRSION/
CHEMICAL RESISTANCE.



Sch40/Sch80 PIPE / FITTING/VALVE



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公司簡介

大發管材工業股份有限公司是屬協羽機材工業集團旗下公司，專業製造生產各種塑膠管、配件及閥門，協羽集團成立於1972年，一向致力於化學工業、電子業及公共工程等，品質技術均達到國際水準；大發公司目前擁有二個工廠：全體員工246人，全集團生產廠均通過ISO 9001認證及美國衛生協會認證NSF合格廠。並取得國家標準9項CNS正字標記產品認證及行政院環保署環保標章。另PP-H、PVDF產品正式生產無塵室所用超純水HP-PP、HP-PVDF 潔淨管、配件及閥門。

產品三大特色

1. 生產材質最齊全：有UPVC、HIW-PVC、CPVC (HT-PVC)、HD-PE、PP-H、ABS、PVDF等七種原料製造。不同生產設備在同一工廠生產目前是世界唯一。
2. 生產尺寸規格最大最齊全：生產尺寸UPVC 1/2"~24"、HIW-PVC 1/2"~24"、CPVC (HT-PVC) 1/2"~24"、HD-PE $\frac{1}{2}$ "~ $\frac{1}{2}$ " 1200mm、PP-H $\frac{1}{2}$ "~ $\frac{1}{2}$ " 1200 mm、ABS $\frac{1}{2}$ "~ $\frac{1}{2}$ " 630 mm、PVDF $\frac{1}{2}$ "~ $\frac{1}{2}$ " 630 mm。生產規格符合世界各國使用，如日本規格JIS、美國規格ANSI SCH80、SCH40、德國規格DIN PN2.5至PN30，英國BS規格，或其它客戶指定之特殊規格均可供應。
3. 直管、配件及閥門為同一家生產廠全方位產品鏈供應，目前是市場上最齊全的供應商，能滿足業界一次性最佳的服務。

產品廣泛使用在化工用管、工業用管及半導體用管、重大公共工程用管上如電力公司潛槽工程用管、自來水用管、電信寬頻及交控用管、瓦斯用管、污水用管、溫泉用管、海上養殖用管、及半導體潔淨用管等均大量採用，目前更與台塑關係企業、中鋼、欣桃瓦斯、新營瓦斯、等等...訂有年度採購合約，並為其它國內各大營造廠、化學工廠與半導體業、電子業及海內外國際市場50幾個國家等特別指定採用，並獲得一致好評。



董事長 蔡添壽

CHAIRMAN TSAI TIEN-SHOU

Company Profile

DURA FLOW PIPE INDUSTRIAL CO., LTD., is an affiliate of the SHIE YU MACHINE GROUP, and was established to manufacture all kinds of plastic pipes, accessories and valves for professional applications. Incorporated in 1972, the SHIE YU GROUP has been involving in the fields of chemical engineering, electronic industry and public works, and our quality and techniques have attained international standards. Currently, DURA FLOW PIPE INDUSTRIAL CO., LTD., possesses two factories under which some 246 employees are hired, and the certifications granted for our factories include ISO9001 and NSF of the American Public Health Association (APHA) together with 9 authentic marks for CNS certification and the environmental protection badge issued by Environmental Protection Administration of the Executive Yuan. In addition, our PP-H and PVDF factories have also launched the manufacturing of pure-water HP-PP, HP-PVDF cleaning pipe.

Three main product features:

1. Complete range of production materials: We provide the production of UPVC, HIW-PVC, CPVC (HT-PVC), HD-PE, PP-H, ABS and PVDF, and we are the only company of the world that uses different production equipment in one factory.
2. Largest and most complete range of production specifications: The dimensions of production include UPVC 1/2"~24", HIW-PVC 1/2"~24", CPVC (HT-PVC) 1/2"~24", HD-PE $\frac{1}{2}$ "~ $\frac{1}{2}$ " 1200mm, PP-H $\frac{1}{2}$ "~ $\frac{1}{2}$ " 1200mm, ABS $\frac{1}{2}$ "~ $\frac{1}{2}$ " 630mm and PVDF $\frac{1}{2}$ "~ $\frac{1}{2}$ " 630mm. Our production specifications meet the requirements of relevant world standards, such as JIS, ANSI SCH80, SCH40, DIN PN2.5 to PN30 and BS specifications. Further, we also provide special specifications designated by the customer.
3. Straight pipes, accessories and valves are manufactured by the same factory and supplied through all-area product chain. As such, we are the fully equipped supplier that can satisfy the customers by providing the best one-stop services.

Our pipes are widely used in chemical engineering, industrial, semiconductor, major public work sectors, such as the drilling pipes of the Taiwan Power Company, tap water pipes, telecommunication broadband and traffic control pipes, gas pipes, sewage pipes, hot spring pipes, sea fishery pipes, and semiconductor cleaning pipes, etc. Further we also signed yearly procurement contracts with the subsidiaries of Formosa Plastic Co., Ltd., China Steel Corporation, Shin Tao Gas Co., Ltd. and Shin Yin Gas Co., Ltd., and our products have also been specially designated by domestic major construction companies, chemical plants, semiconductor firms and electronic firms, as well as major companies in over 50 countries, with positive affirmation.



創新研發

我們應用先進技術，創新研發保有競爭力，針對生產製造不斷的提昇，使產品呈現國際水準。再加上自有的模具廠（有完整的全套開模的軟、硬體設備）及專業的設計及技術人員，整個研發團隊提供快速精確之模具設計生產來滿足客戶及市場的需求。並與國際知名品牌廠商建立 OEM、ODM設計生產合作，建立良好的密切互動關係。

INNOVATION AND R&D

We maintain our competitiveness by the application of advanced technology and innovative research and development. Further, action has also been taken to enhance our capacity in manufacturing so as to present world-class product quality. With in-house mold factory (provided with complete range of mold developing software and hardware equipment) as well as professional design and technicians, our R&D Team provide fast, accurate mold design and development to meet customer and market demands. In addition, we also developed OEM, ODM design and fabrication cooperation programs with world-famed brands and have established well-based mutual interaction relationship.





QUALITY CONTROL

Advanced Production Equipment Sophisticated Experimental Instruments

Excellent products derive from precision machinery equipment and raw materials. For this purpose, we have introduced the Fully-automated Extrusion Machine production line from Austria's CICINNATI and advanced machinery equipment from German's BATTENFIELD. Further, we also possess the world's largest computer-based Automatic Injection Machine, which can yield 126kg of CPVC material in one molding process. The materials selected by us are superior in quality, and are analyzed and tested to ensure they meet specification standards before putting into production. Our laboratory has a complete set of testing/inspection equipments to test, inspect and judge the product properties in comprehensive manner so that they may be used as the basis of selection. We control quality before delivery and ensure quality after, to guarantee superior products are delivered.

先進生產設備·精良實驗儀器

優良的產品要有精密機械設備及原物料，本公司引進先進國家奧地利CICINNATI公司全自動押出成型機生產線、德國品牌BATTENFIELD公司等先進精良機械設備；及特別擁有世界第一超大型電腦全自動射出成型機，尤其是生產CPVC原料一次成型可達126公斤；我們慎選優良品質原料，對原料加以分析測試，確定符合規範標準方可上線生產。我們實驗室有最齊全的檢測設備，可以將原物料，產品的物性做完全檢測判定，做為選用之依據，出貨前品質的掌握及產品出貨後品質確保，以達全面優良產品為目標。



ADVANCED EQUIPMENT

經營展望

大發公司一向以“品質第一”、“技術領先”、“客戶滿意”為宗旨，DFP的產品銷售全世界均有完善服務團隊，因此我們希望在塑膠管、配件及閥門的專業領域上，能提供更完整的產品系列促進最佳選擇。客戶的需求是我們最大的前進動力，我們以達成客戶滿意為最大目標，因此國內外各大工程公司及民營企業均成為我們長期客戶，並與國外知名品牌廠商建立OEM良好合作關係並大量生產供應。我們的願志將+DFP+產品成為國際各種塑膠管、配件、閥門的優良品牌。產品將滿足客戶獲得最大的肯定。

Operational Outlook

Abiding by the conviction of "Quality First", "Technology Oriented" and "Customer Satisfaction", our well-planned service team has been organized by DFP for distributing our products to the world. On this basis, it is our wish to provide a more complete product series that offers the best choices in the professional field of plastic pipes, accessories and valves. Customer demand is the key driving force to our progress and we put customer satisfaction as our ultimate goal. For this reason, we are able to establish long-term business relationship with major construction companies and private firms in local and overseas marketplaces. Further, we have also maintained mutual OEM cooperation relationship with famed overseas brands in carrying out massive production and supply. Our final goal is to develop +DFP+ product as a representing name for excellent brand in the field of plastic pipes, accessories and valves in international market. To this extent, our products will satisfy every customer.



化學工業

Chemical Industry

電子半導體

Electronic /
Semiconductor Industry

國際參展

International Exhibition

海水碼頭

Seawater
Wharf

HD-PE自來水管

HD-PE Portable Water Refining

海水養殖業

Sea Farming Industry

石化工業使用

Petrochemical Industry

產品認證

產品通過認證如下:

- *全生產廠全部通過 ISO9001 認證合格
- *美國衛生協會認證 NSF 合格廠
- *行政院環保署環保標章合格廠
- *取得國家標準 9 項 CNS 正字標記產品認證如下:

CNS 編號	標準	產品名稱
4053-1	K3033-1	自來水用聚氯乙稀硬質管
1298	K3004	聚氯乙稀硬質管
1302	K3006	導電線用聚氯乙稀硬質管
14345	K3114	耐衝擊硬質聚氯乙稀硬質管
14684	K3121	氯化聚氯乙稀(CPVC)硬質管
2456	K3012	自來水用聚氯乙稀硬質管
2458	K3013	化學工業及一般用高密度聚氯乙稀硬質管
12835	K3097	天然氣用聚氯乙稀硬質管
13158	K3102	自來水用丙稀 - 丁二烯 - 苯乙烯 (ABS) 硬質管

Listed below are certifications honored for our products:

- All our factories have been honored with ISO9001 Certification.
- One factory qualified for NSF certification.
- One factory honored with the environmental protection badge by the Environmental Protection Administration of the Executive Yuan.
- Listed below are 9 authentic marks certified by CNS:

CNS General Number	Category Number	Product Name
4053-1	K3033-1	Tap Water Hardened PVC Pipe
1298	K3004	Hardened PVC Pipe
1302	K3006	Conductive Wire Hardened PVC Pipe
14345	K3114	Impact-resistant Hardened PVC Pipe
14684	K3121	CPVC Pipe
2456	K3012	Tap Water PE Pipe
2458	K3013	Chemical industry and General Purpose HDPE Pipe
12835	K3097	Natural Gas PE Pipe
13158	K3102	Tap Water ABS Pipe

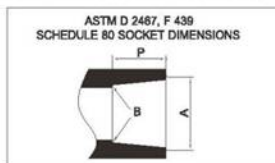
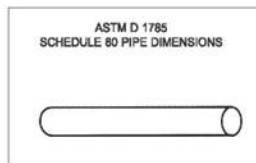


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UPVC / CPVC PIPE FITTING VALVE

ASTM STANDARDS



單位 (unit) : inch

Nominal Pipe Size in.	Mean Outside Diameter in.	O.D. Tolerance in.	Minimum Wall Thickness in.	Nominal Size in.	Entrance A	Bottom B	Tolerance in.	Socket Length minimum P	Nominal Pipe Size in.	Threads Per in.	Effective Thread Length L	Pitch of Thread P
1/8	0.405	±0.004	0.095	1/8	0.417	0.401	±0.004	0.500	1/8	27.0	0.2639	0.03704
1/4	0.540	±0.004	0.119	1/4	0.552	0.536	±0.004	0.625	1/4	18.0	0.4018	0.05556
3/8	0.675	±0.004	0.126	3/8	0.687	0.671	±0.004	0.750	3/8	18.0	0.4075	0.05556
1/2	0.840	±0.004	0.147	1/2	0.848	0.836	±0.004	0.875	1/2	14.0	0.5337	0.07143
3/4	1.050	±0.004	0.154	3/4	1.058	1.045	±0.004	1.000	3/4	14.0	0.5457	0.07143
1	1.315	±0.005	0.179	1	1.325	1.310	±0.005	1.125	1	11.5	0.6828	0.08696
1-1/4	1.660	±0.005	0.191	1-1/4	1.670	1.655	±0.005	1.250	1-1/4	11.5	0.7068	0.08696
1-1/2	1.900	±0.006	0.200	1-1/2	1.912	1.894	±0.006	1.375	1-1/2	11.5	0.7235	0.08696
2	2.375	±0.006	0.218	2	2.387	2.369	±0.006	1.500	2	11.5	0.7565	0.08696
2-1/2	2.875	±0.007	0.276	2-1/2	2.889	2.868	±0.007	1.750	2-1/2	8.0	1.1375	0.12500
3	3.500	±0.008	0.300	3	3.516	3.492	±0.008	1.875	3	8.0	1.2000	0.12500
4	4.500	±0.009	0.337	4	4.518	4.491	±0.009	2.250	4	8.0	1.3000	0.12500
5	5.563	±0.010	0.375	5	5.583	5.553	±0.010	2.625	5	8.0	1.4063	0.12500
6	6.625	±0.011	0.432	6	6.647	6.614	±0.011	3.000	6	8.0	1.5125	0.12500
8	8.625	±0.015	0.500	8	8.665	8.655	±0.015	4.000	8	8.0	1.7125	0.12500
10	10.750	±0.015	0.593	10	10.780	10.735	±0.015	5.000				
12	12.750	±0.015	0.687	12	12.780	12.735	±0.015	6.000				
14	14.000	±0.015	0.750	14	14.039	13.984	±0.015	7.000				
16	16.000	±0.019	0.843	16	16.039	15.982	±0.019	8.000				
18	18.000	±0.019	0.937	18	18.038	17.980	±0.019	9.000				
20	20.000	±0.023	1.031	20	20.038	19.980	±0.023	10.042				
24	24.000	±0.031	1.218	24	24.077	23.973	±0.031	12.2				

STANDARDS COMPARISONS

IPS-to-Metric transition chart are listed by nominal size. The chart below compares nominal and actual pipe O.D. for each size according to the designated standard.

單位 (unit) : inch

JIS K6741 (mm)		DIN 8062 (mm)		ASTM D1785 (in)		NPT-ANSI B 1.2 0.1** Tapered Thread		BSP ISO 7/1 ** Parallel Thread	
Nominal	Actual *	O.D.	Actual *	Nominal	Actual *	Designation	Threads in	Designation	Threads 25.4mm
16	22	20	20	1/2	0.840	1/2	14.0	1/2	14
20	26	25	25	3/4	1.050	3/4	14.0	3/4	14
25	32	32	32	1	1.315	1	11.5	1	11
30	38	40	40	1-1/4	1.660	1-1/4	11.5	1-1/4	11
40	748	50	50	1-1/2	1.900	1-1/2	11.5	1-1/2	11
50	60	63	63	2	2.375	2	11.5	2	11
75	89	90	90	3	3.500	3	8.00	3	11
100	114	110	110	4	4.500	4	8.00	4	11

Specified dimension, certain tolerances apply

** NPT and BSP have different thread angles and are not compatible



UPVC / CPVC PIPE FITTING VALVE

Rigid Poly Vinyl Chlorides (UPVC) and Chlorinated Poly Vinyl Chlorides (CPVC)

Compounds:

硬質UPVC, CPVC原料物性表

Property and Unit 原料物性及單位	Test Method (測試方法)	UPVC	CPVC
Impact Resistnace(Izod) 耐衝擊強度 J/m of notch ft*lb/in. of notch	ASTM D256	<34.7 <0.65	<34.7 <0.65
Tensile strength (min.) 拉伸強度 (最小值) MPa psi	ASTM D638	<34.5 <5 000	<34.5 <5 000
Modulus of elasticity in tension (min) 拉伸彈性係數 (最小值) MPa psi	ASTM D638	<1930 <280 000	<1930 <280 000
Deflection Temperature under load, min. 1.82MPa(264psi) 熱變形溫度, 分 °C °F	ASTM D648	<55 <131	<55 <131
Flmmebility 燃性 (平均測試時間<10s, 燃燒 <25mm)	ASTM D635	*	*

Note: * -All compounds covered by this specification when tested in accordance with Test Method D635. 所有原料依據 ASTM D635 方法測試



UPVC / CPVC PIPE FITTING VALVE

UPVC schedule 40 pipe

Scope : This specification covers requirements for schedule 40 UPVC pressure pipe as described in ASTM D-1785.

Material : UPVC used is Type I, Grade I compound, cell classification 12454-B per ASTM D-1784.

Dimensions : Dimensions and tolerances shall be as shown in the following tables when measured

according to Method D-2122. Tolerances for out-of-roundness shall apply only to pipe prior to shipment.

Marking: Indicates manufacturer's name, material designation code, nominal pipe size, schedule size with pressure rating in PSI for water at 73°F, ASTM designation number D-1785.

Schedule 40 Dimensions

單位 (unit) : inch

Nom Pipe Size(in.)	O.D.	Average I.D.	Min. Wall	Nom. Wt./Ft.	Max W.P. PSI	code
1/8	0.405	0.249	0.068	0.051	810	11-PIO-04-0003
1/4	0.540	0.344	0.088	0.086	780	11-PIO-04-0008
3/8	0.675	0.473	0.091	0.115	620	11-PIO-04-0010
1/2	0.840	0.602	0.109	0.170	600	11-PIO-04-0015
3/4	1.050	0.804	0.113	0.226	480	11-PIO-04-0020
1	1.315	1.029	0.133	0.333	450	11-PIO-04-0025
1-1/4	1.660	1.360	0.140	0.450	370	11-PIO-04-0032
1-1/2	1.900	1.590	0.145	0.537	330	11-PIO-04-0040
2	2.375	2.047	0.154	0.720	280	11-PIO-04-0050
2-1/2	2.875	2.445	0.203	1.136	300	11-PIO-04-0065
3	3.500	3.042	0.216	1.488	260	11-PIO-04-0080
3-1/2	4.000	3.521	0.226	1.789	240	11-PIO-04-0090
4	4.500	3.996	0.237	2.118	220	11-PIO-04-0100
5	5.563	5.016	0.258	2.874	190	11-PIO-04-0125
6	6.625	6.031	0.280	3.733	180	11-PIO-04-0150
8	8.825	7.942	0.322	5.619	160	11-PIO-04-0200
10	10.750	9.975	0.365	7.966	140	11-PIO-04-0250
12	12.750	11.889	0.406	10.534	130	11-PIO-04-0300
14	14.000	13.073	0.437	12.482	130	11-PIO-04-0350
16	16.000	14.940	0.500	16.286	130	11-PIO-04-0400
18	18.000	16.809	0.562	20.587	130	11-PIO-04-0450
20	20.000	18.743	0.593	24.183	120	11-PIO-04-0500
24	24.000	22.544	0.687	33.652	120	11-PIO-04-0600



UPVC / CPVC PIPE FITTING VALVE

UPVC schedule 80 pipe

Scope : This specification covers requirements for schedule 80 UPVC pressure pipe as described in ASTM D-1785.

Material : UPVC used is Type I, Grade I compound, cell classification 12454-B per ASTM D-1784.

Dimensions : Dimensions and tolerances shall be as shown in the following tables when measured

according to Method D-2122. Tolerances for out-of-roundness shall apply only to pipe prior to shipment.

Marking: Indicates manufacturer's name, material designation code, nominal pipe size, schedule size with pressure rating in PSI for water at 73°F, ASTM designation number D-1785.

Schedule 80 Dimensions

單位 (unit) : inch

Nom Pipe Size(in.)	O.D.	Average I.D.	Min. Wall	Nom. Wt./Ft.	Max W.P. PSI	code
1/8	0.405	0.195	0.095	0.063	1230	11-PIO-08-0003
1/4	0.540	0.282	0.119	0.105	1130	11-PIO-08-0008
3/8	0.675	0.403	0.126	0.146	920	11-PIO-08-0010
1/2	0.840	0.526	0.147	0.213	850	11-PIO-08-0015
3/4	1.050	0.722	0.154	0.289	690	11-PIO-08-0020
1	1.315	0.936	0.179	0.424	630	11-PIO-08-0025
1-1/4	1.660	1.255	0.191	0.586	520	11-PIO-08-0032
1-1/2	1.900	1.476	0.200	0.711	470	11-PIO-08-0040
2	2.375	1.913	0.218	0.984	400	11-PIO-08-0050
2-1/2	2.875	2.290	0.276	1.500	420	11-PIO-08-0065
3	3.500	2.864	0.300	2.010	370	11-PIO-08-0080
3-1/2	4.000	3.326	0.318	2.452	350	11-PIO-08-0090
4	4.500	3.786	0.337	2.983	320	11-PIO-08-0100
5	5.563	4.768	0.375	4.078	290	11-PIO-08-0125
6	6.625	5.709	0.432	5.610	280	11-PIO-08-0150
8	8.825	7.565	0.500	8.522	250	11-PIO-08-0200
10	10.750	9.493	0.593	12.635	230	11-PIO-08-0250
12	12.750	11.294	0.687	17.384	230	11-PIO-08-0300
14	14.000	12.410	0.750	20.852	220	11-PIO-08-0350
16	16.000	14.231	0.843	26.810	220	11-PIO-08-0400
18	18.000	16.014	0.937	33.544	220	11-PIO-08-0450
20	20.000	17.814	1.031	41.047	220	11-PIO-08-0500
24	24.000	21.418	1.218	58.233	210	11-PIO-08-0600



UPVC / CPVC PIPE FITTING VALVE

CPVC schedule 40 pipe

Scope :This specification covers requirements for schedule 40 CPVC pressure pipe as described in ASTM F-441.

Material : CPVC used is Type IV, Grade I compound, cell classification 23447-B per ASTM D-1784.

Dimensions : Dimensions and tolerances shall be as shown in the following tables when measured

according to Method D-2122. Tolerances for out-of-roundness shall apply only to pipe prior to shipment.

Marking: Indicates manufacturer's name, material designation code, nominal pipe size, schedule size with pressure rating in PSI for water at 73°F, ASTM designation number F-441.

Schedule 40 Dimensions

單位 (unit) : inch

Nom Pipe Size(in.)	O.D.	Average I.D.	Min. Wall	Nom. Wt./Ft.	Max W.P. PSI	code
1/4	0.540	0.344	0.088	0.096	780	41-PIO-04-0008
3/8	0.675	0.473	0.091	0.128	620	41-PIO-04-0010
1/2	0.840	0.602	0.109	0.190	600	41-PIO-04-0015
3/4	1.050	0.804	0.113	0.253	480	41-PIO-04-0020
1	1.315	1.029	0.133	0.371	450	41-PIO-04-0025
1-1/4	1.660	1.360	0.140	0.502	370	41-PIO-04-0032
1-1/2	1.900	1.590	0.145	0.599	330	41-PIO-04-0040
2	2.375	2.047	0.154	0.803	280	41-PIO-04-0050
2-1/2	2.875	2.445	0.203	1.267	300	41-PIO-04-0065
3	3.500	3.042	0.216	1.660	260	41-PIO-04-0080
3-1/2	4.000	3.521	0.226	1.996	240	41-PIO-04-0090
4	4.500	3.998	0.237	2.363	220	41-PIO-04-0100
5	5.563	5.016	0.258	2.874	190	41-PIO-04-0125
6	6.625	6.031	0.280	4.164	180	41-PIO-04-0150
8	8.625	7.942	0.322	6.286	160	41-PIO-04-0200
10	10.750	9.975	0.365	8.886	140	41-PIO-04-0250
12	12.750	11.889	0.406	11.751	130	41-PIO-04-0300
14	14.000	13.073	0.437	13.916	130	41-PIO-04-0350
16	16.000	14.940	0.500	18.167	130	41-PIO-04-0400
18	18.000	16.808	0.562	22.965	130	41-PIO-04-0450
20	20.000	18.743	0.593	29.976	120	41-PIO-04-0500
24	24.000	22.544	0.687	37.539	120	41-PIO-04-0600



UPVC / CPVC PIPE FITTING VALVE

CPVC schedule 80 pipe

Scope :This specification covers requirements for schedule 80 CPVC pressure pipe as described in ASTM F-441.

Material : CPVC used is Type IV, Grade I compound, cell classification 23447-B per ASTM D-1784.

Dimensions : Dimensions and tolerances shall be as shown in the following tables when measured

according to Method D-2122. Tolerances for out-of-roundness shall apply only to pipe prior to shipment.

Marking: Indicates manufacturer's name, material designation code, nominal pipe size, schedule size with pressure rating in PSI for water at 73°F, ASTM designation number F-441.

Schedule 80 Dimensions

單位 (unit) : inch

Nom Pipe Size(in.)	O.D.	Average I.D.	Min. Wall	Nom. Wt./Ft.	Max W.P. PSI	code
1/4	0.540	0.282	0.119	0.117	1130	41-PIO-08-0008
3/8	0.675	0.403	0.126	0.162	920	41-PIO-08-0010
1/2	0.840	0.526	0.147	0.238	850	41-PIO-08-0015
3/4	1.050	0.722	0.154	0.322	690	41-PIO-08-0020
1	1.315	0.936	0.179	0.473	630	41-PIO-08-0025
1-1/4	1.660	1.255	0.191	0.654	520	41-PIO-08-0032
1-1/2	1.900	1.476	0.200	0.793	470	41-PIO-08-0040
2	2.375	1.913	0.218	1.097	400	41-PIO-08-0050
2-1/2	2.875	2.290	0.276	1.674	420	41-PIO-08-0065
3	3.500	2.864	0.300	2.242	370	41-PIO-08-0080
3-1/2	4.000	3.326	0.318	2.735	350	41-PIO-08-0090
4	4.500	3.786	0.337	3.277	320	41-PIO-08-0100
5	5.563	4.768	0.375	4.078	290	41-PIO-08-0125
6	6.625	5.709	0.432	6.258	280	41-PIO-08-0150
8	8.625	7.565	0.500	9.508	250	41-PIO-08-0200
10	10.750	9.493	0.593	14.095	230	41-PIO-08-0250
12	12.750	11.294	0.687	19.392	230	41-PIO-08-0300
14	14.000	12.410	0.750	23.261	220	41-PIO-08-0350
16	16.000	14.213	0.843	29.891	220	41-PIO-08-0400
18	18.000	16.014	0.937	35.419	220	41-PIO-08-0450
20	20.000	17.814	1.031	45.879	220	41-PIO-08-0500
24	24.000	21.418	1.281	64.959	210	41-PIO-08-0600



UPVC / CPVC PIPE FITTING VALVE

CLEAR PVC SCH40 PIPE

(美規40透明管)



Dimensions and Pressure Ratings

單位 (unit): inch

Nominal Pipe Size Size(in.)	O.D.	Average I.D.	Schedule 40			code
			Minimum Wall	Nominal Weight Lbs./ft	MAX. W.P. PSI*	
1/4	0.540	0.354	0.088	0.081	390	12-PIO-04-0008
3/8	0.675	0.483	0.091	0.109	310	12-PIO-04-0010
1/2	0.840	0.608	0.109	0.161	300	12-PIO-04-0015
3/4	1.050	0.810	0.113	0.214	240	12-PIO-04-0020
1	1.315	1.033	0.133	0.315	220	12-PIO-04-0025
1-1/4	1.660	1.364	0.140	0.428	180	12-PIO-04-0032
1-1/2	1.900	1.592	0.145	0.509	170	12-PIO-04-0040
2	2.375	2.049	0.154	0.682	140	12-PIO-04-0050
2-1/2	2.875	2.445	0.203	1.076	150	12-PIO-04-0065
3	3.500	3.042	0.216	1.409	130	12-PIO-04-0080
3-1/2	4.000	3.520	0.226	1.697	120	12-PIO-04-0090
4	4.500	3.998	0.237	2.006	110	12-PIO-04-0100
6	6.625	6.031	0.280	3.535	90	12-PIO-04-0150
8	8.625	7.943	0.322	5.305	80	12-PIO-04-0200
10	10.750	9.975	0.365	7.966	70	12-PIO-04-0250
12	12.750	11.889	0.406	10.534	60	12-PIO-04-0300



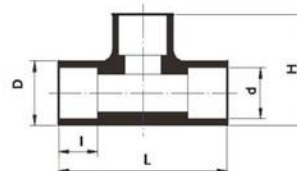
UPVC / CPVC PIPE FITTING VALVE

TEE

(Soc*Soc*Soc)

三通

(ANSI SCH80)



單位 (unit): inch

Size	D	d	H	I	L	UPVC code no.	CPVC code no.
1/2	1-3/16	27/32	2-1/16	7/8	2-31/32	11-TT5-08-0015	41-TT5-08-0015
3/4	1-7/16	1-1/16	2-7/16	31/32	3-7/16	11-TT5-08-0020	41-TT5-08-0020
1	1-11/16	1-5/16	2-27/32	1-1/8	4-1/32	11-TT5-08-0025	41-TT5-08-0025
1-1/4	2-1/16	1-21/32	3-5/32	1-1/4	4-1/4	11-TT5-08-0032	41-TT5-08-0032
1-1/2	2-11/32	1-29/32	3-3/4	1-13/32	5-5/32	11-TT5-08-0040	41-TT5-08-0040
2	2-7/8	2-13/32	4-9/32	1-17/32	5-11/16	11-TT5-08-0050	41-TT5-08-0050
2-1/2	3-15/32	2-29/32	5-1/4	1-3/4	7-1/32	11-TT5-08-0065	41-TT5-08-0065
3	4-5/32	3-17/32	6-1/32	1-29/32	7-15/16	11-TT5-08-0080	41-TT5-08-0080
4	5-1/4	4-1/2	7-11/32	2-1/4	9-15/32	11-TT5-08-0100	41-TT5-08-0100
5	7-9/16	5-1/4	10-19/32	2-31/32	13-19/32	11-TT5-08-0125	41-TT5-08-0125
6	7-9/16	6-21/32	10-19/32	2-31/32	13-19/32	11-TT5-08-0150	41-TT5-08-0150
8	9-21/32	8-21/32	13-21/32	3-31/32	17-21/32	11-TT5-08-0200	41-TT5-08-0200
10	12-17/32	10-7/8	17-25/32	5-17/32	23-1/32	11-TT5-08-0250	41-TT5-08-0250
12	14-9/16	12-13/16	20-19/32	6-5/16	26-7/16	11-TT5-08-0300	41-TT5-08-0300
14	15-5/8	14-1/32	22-3/8	7	29-2/32	11-TT5-08-0350	41-TT5-08-0350
16	17-23/32	16-1/32	25-29/32	8-1/32	34-3/32	11-TT5-08-0400	41-TT5-08-0400
18	19-7/8	18-1/32	29-1/4	8-31/32	38-19/32	11-TT5-08-0450	41-TT5-08-0450
* 20	22-1/8	20-1/16	35-1/8	10	48-7/64	11-TT5-08-0500	41-TT5-08-0500
* 24	28-41/64	24-5/64	41-63/64	12	57-21/64	11-TT5-08-0600	41-TT5-08-0600

*手工製品 (Fabricated)



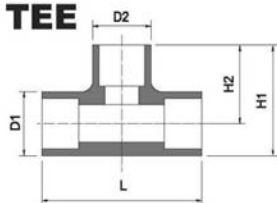
UPVC / CPVC PIPE FITTING VALVE



UPVC / CPVC PIPE FITTING VALVE

REDUCING TEE

(Soc*Soc*Soc)
異徑三通
(ANSI SCH80)



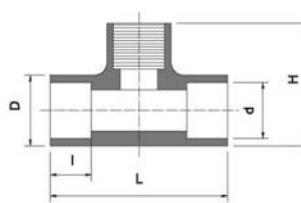
單位 (unit): inch

Size	D1	D2	H1	H2	L	UPVC code no.	CPVC code no.
3/4x3/4x1/2	1-1/2	1-5/16	2-1/16	1-5/16	3-11/32	11-TR4-08-020015	41-TR4-08-020015
1x1x1/2	1-23/32	1-7/32	2-19/32	1-23/32	3-7/16	11-TR4-08-025015	41-TR4-08-025015
1x1x3/4	1-23/32	1-3/8	2-3/4	1-29/32	3-7/16	11-TR4-08-025020	41-TR4-08-025020
1-1/4x1-1/4x3/4	2-1/8	1-3/8	3-1/8	2-3/32	3-13/16	11-TR4-08-032020	41-TR4-08-032020
1-1/4x1-1/4x1	2-1/8	2-1/16	3-1/8	2-2/32	4-1/4	11-TR4-08-032025	41-TR4-08-032025
1-1/2x1-1/2x3/4	2-5/16	1-3/8	3-13/16	2-1/32	4-3/16	11-TR4-08-040020	41-TR4-08-040020
1-1/2x1-1/2x1	2-5/16	1-3/4	3-15/32	2-15/16	4-17/32	11-TR4-08-040025	41-TR4-08-040025
1-1/2x1-1/2x1-1/4	2-5/16	2-1/8	3-1/2	2-11/32	5-1/8	11-TR4-08-040032	41-TR4-08-040032
2x2x1/2	2-7/8	1-1/2	3-3/4	2-5/16	4-5/16	11-TR4-08-050015	41-TR4-08-050015
2x2x3/4	2-7/8	1-3/8	3-7/8	2-7/16	4-1/2	11-TR4-08-050020	41-TR4-08-050020
2x2x1	2-7/8	1-23/32	4-1/32	2-5/8	4-3/4	11-TR4-08-050025	41-TR4-08-050025
2x2x1-1/2	2-7/8	2-3/8	4-1/4	2-27/32	5-3/8	11-TR4-08-050040	41-TR4-08-050040
2-1/2x2-1/2x2	3-15/32	2-29/32	4-5/8	2-29/32	6-31/32	11-TR4-08-065050	41-TR4-08-065050
3x3x2	4-5/32	2-29/32	5-11/32	3-9/32	6-21/32	11-TR4-08-080050	41-TR4-08-080050
4x4x2	5-1/8	2-7/8	6-7/16	3-7/8	7-13/32	11-TR4-08-100050	41-TR4-08-100050
4x4x3	5-7/32	4-3/16	6-27/32	4-7/32	8-23/32	11-TR4-08-100080	41-TR4-08-100080
6x6x4	7-19/32	5-1/4	9-13/32	5-19/32	11-7/32	11-TR4-08-150100	41-TR4-08-150100
6x6x6	10	7-3/4	13-9/16	8-3/4	17-17/32	11-TR4-08-200150	41-TR4-08-200150
△ 10x10x8	12	9-5/8	16-25/32	10-1/2	27	11-TR4-08-250200	41-TR4-08-250200
△ 12x12x10	14-1/8	11-15/16	23-1/32	15-3/4	31-3/4	11-TR4-08-300250	41-TR4-08-300250
△ 14x14x12	15-5/8	14-1/4	25-17/32	17-3/4	36-1/2	11-TR4-08-350300	41-TR4-08-350300
△ 16x16x14	17-11/16	15-5/8	28-5/16	19-1/2	41-1/4	11-TR4-08-400350	41-TR4-08-400350
△ 18x18x16	19-7/8	17-11/16	27-15/16	18	45	11-TR4-08-450400	41-TR4-08-450400
* 20x20x14	20-1/8	15-35/64	29-31/32	18-57/64	40	11-TR4-08-500350	41-TR4-08-500350
* 20x20x16	20-1/8	17-47/64	31-9/64	20-3/16	42	11-TR4-08-500400	41-TR4-08-500400
* 20x20x18	22-1/8	20	35-19/32	24-1/2	49-3/4	11-TR4-08-500450	41-TR4-08-500450
* 24x24x16	26-41/64	17-47/64	35-3/8	22-3/64	48-47/64	11-TR4-08-500400	41-TR4-08-500400
* 24x24x18	26-41/64	19-59/64	36-5/32	22-27/32	48-3/4	11-TR4-08-600450	41-TR4-08-600450
* 24x20x20	26-41/64	22-1/8	37-47/64	24-27/64	50-3/4	11-TR4-08-600500	41-TR4-08-600500

△轉接品 (Transition)
*手工製品 (Fabricated)

TEE

(Soc*Soc*Fipt)
三通牙口
(ANSI SCH80)

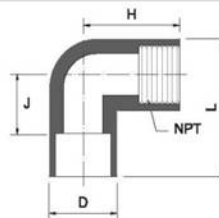


單位 (unit): inch

Size	D	d	H	I	L	UPVC code no.	CPVC code no.
1/2	1-3/16	27/32	2-1/16	7/8	2-31/32	11-TT8-08-0015	41-TT8-08-0015
3/4	1-7/16	1-2/32	2-7/16	31/32	3-7/16	11-TT8-08-0020	41-TT8-08-0020
1	1-11/16	1-5/16	2-27/32	1-1/8	4-1/32	11-TT8-08-0025	41-TT8-08-0025
1-1/4	2-1/16	1-21/32	3-5/32	1-1/4	4-1/4	11-TT8-08-0032	41-TT8-08-0032
1-1/2	2-11/32	1-29/32	3-3/4	1-13/32	5-5/32	11-TT8-08-0040	41-TT8-08-0040
2	2-7/8	2-13/32	4-9/32	1-17/32	5-11/16	11-TT8-08-0050	41-TT8-08-0050

90° ELL

(SocxFipt)
90°彎頭 (牙口)
(ANSI SCH80)



單位 (unit): inch

Size	D	J	H	L	UPVC code no.	CPVC code no.
1/2	1-3/16	19/32	1-15/32	2-1/16	11-L98-08-0015	41-L98-08-0015
3/4	1-7/16	21/32	1-21/32	2-3/8	11-L98-08-0020	41-L98-08-0020
1	1-21/32	27/32	1-31/32	2-3/4	11-L98-08-0025	41-L98-08-0025
1-1/4	2-3/32	1-3/32	2-11/32	3-3/8	11-L98-08-0032	41-L98-08-0032
1-1/2	2-3/8	1-9/32	2-21/32	3-3/4	11-L98-08-0040	41-L98-08-0040
2	2-7/8	1-17/32	3-1/32	4-5/16	11-L98-08-0050	41-L98-08-0050



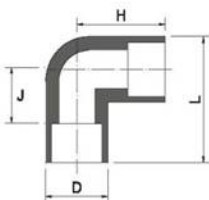
UPVC / CPVC PIPE FITTING VALVE

90° ELL

(Soc*Soc)

90° 彎頭

(ANSI SCH80)



NSF

單位 (unit): inch

Size	D	J	H	L	UPVC code no.	CPVC code no.
1/2	1-3/16	19/32	1-15/32	2-1/16	11-L95-08-0015	41-L95-08-0015
3/4	1-7/16	21/32	1-21/32	2-3/8	11-L95-08-0020	41-L95-08-0020
1	1-21/32	27/32	1-31/32	2-3/4	11-L95-08-0025	41-L95-08-0025
1-1/4	2-3/32	1-3/32	2-11/32	3-3/8	11-L95-08-0032	41-L95-08-0032
1-1/2	2-3/8	1-9/32	2-21/32	3-3/4	11-L95-08-0040	41-L95-08-0040
2	2-7/8	1-17/32	3-1/32	4-5/16	11-L95-08-0050	41-L95-08-0050
2-1/2	3-15/32	1-3/4	3-1/2	5-1/8	11-L95-08-0065	41-L95-08-0065
3	4-5/32	2-1/8	3-31/32	6-1/16	11-L95-08-0080	41-L95-08-0080
4	5-1/4	2-19/32	4-27/32	7-15/32	11-L95-08-0100	41-L95-08-0100
5	7-19/32	4-1/16	6-11/16	10-1/2	11-L95-08-0125	41-L95-08-0125
6	7-19/32	3-3/4	6-11/16	10-1/2	11-L95-08-0150	41-L95-08-0150
8	9-21/32	4-27/32	8-25/32	13-5/8	11-L95-08-0200	41-L95-08-0200
10	12-7/16	5-25/32	11-11/32	17-9/16	11-L95-08-0250	41-L95-08-0250
12	15-5/8	7-3/32	13-13/32	20-11/16	11-L95-08-0300	41-L95-08-0300
14	15-19/32	7-15/32	14-17/32	22-11/32	11-L95-08-0350	41-L95-08-0350
16	17-11/16	9-11/32	17-1/16	25-29/32	11-L95-08-0400	41-L95-08-0400
18	19-7/8	10-5/16	19-5/16	29-1/4	11-L95-08-0450	41-L95-08-0450
* 20	22-1/8	16-35/64	26-37/64	37-41/64	11-L95-08-0500	41-L95-08-0500
* 24	26-41/64	21-15/32	33-43/64	46-63/64	11-L95-08-0600	41-L95-08-0600

*手工製品 (Fabricated)



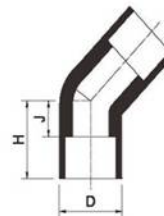
UPVC / CPVC PIPE FITTING VALVE

45° ELL

(Soc*Soc)

45° 彎頭

(ANSI SCH80)



NSF

單位 (unit): inch

Size	D	H	J	UPVC code no.	CPVC code no.
1/2	1-7/32	1-7/32	5/16	11-L48-08-0015	41-L48-08-0015
3/4	1-13/32	1-3/8	7/16	11-L48-08-0020	41-L48-08-0020
1	1-25/32	1-17/32	13/32	11-L48-08-0025	41-L48-08-0025
1-1/4	2-3/32	1-11/16	7/16	11-L48-08-0032	41-L48-08-0032
1-1/2	2-13/32	1-29/32	9/16	11-L48-08-0040	41-L48-08-0040
2	2-27/32	2-7/32	23/32	11-L48-08-0050	41-L48-08-0050
2-1/2	3-1/2	2-9/16	3/4	11-L48-08-0065	41-L48-08-0065
3	4-3/16	2-15/16	1-1/32	11-L48-08-0080	41-L48-08-0080
4	5-1/4	3-13/32	1-3/16	11-L48-08-0100	41-L48-08-0100
6	7-19/32	4-1/2	1-17/32	11-L48-08-0150	41-L48-08-0150
8	9-21/32	6-1/16	2-1/16	11-L48-08-0200	41-L48-08-0200
10	12-17/32	8-1/8	2-19/32	11-L48-08-0250	41-L48-08-0250
12	14-3/16	10-13/16	4-11/32	11-L48-08-0300	41-L48-08-0300
14	15-5/8	11-25/32	4-25/32	11-L48-08-0350	41-L48-08-0350
16	17-23/32	13-1/2	5-17/32	11-L48-08-0400	41-L48-08-0400
18	19-7/8	14-3/4	6	11-L48-08-0450	41-L48-08-0450
* 20	22-1/8	19-7/32	9-3/16	11-L48-08-0500	41-L48-08-0500
* 24	26-41/64	22-29/64	10-1/4	11-L48-08-0600	41-L48-08-0600

*手工製品 (Fabricated)



UPVC / CPVC PIPE FITTING VALVE



UPVC / CPVC PIPE FITTING VALVE

WYE (Soc*Soc*Soc) Y型三通 (ANSI SCH80)

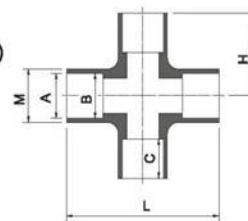


單位 (unit) : inch

Size	A	B	A1	B1	C	C1	H	H1	M	M1	L	UPVC code no.	CPVC code no.
1/2	27/32	27/32	27/32	27/32	7/8	7/8	2	2	1-7/32	1-7/32	3-1/4	11-TY3-08-0015	41-TY3-08-0015
3/4	1-1/16	1-1/16	1-1/16	1-1/16	1	1	2-5/16	2-3/8	1-15/32	1-15/32	3-23/32	11-TY3-08-0020	41-TY3-08-0020
1	1-11/32	1-5/16	1-11/32	1-5/16	1-1/8	1-1/8	2-13/16	2-7/8	1-15/32	1-15/32	4-3/8	11-TY3-08-0025	41-TY3-08-0025
1-1/4	1-21/32	1-11/16	1-21/32	1-11/16	1-1/4	1-1/4	3-3/8	3-7/16	2-5/32	2-5/32	5-1/16	11-TY3-08-0032	41-TY3-08-0032
1-1/2	1-29/32	1-29/32	1-29/32	1-29/32	1-3/8	1-3/8	3-15/16	3-15/16	2-15/32	2-15/32	5-3/4	11-TY3-08-0040	41-TY3-08-0040
2	2-13/32	2-3/8	2-13/32	2-3/8	1-1/2	1-1/2	4-3/4	4-15/16	3-1/32	3-1/32	6-29/32	11-TY3-08-0050	41-TY3-08-0050
2-1/2	2-29/32	2-7/8	2-29/32	2-7/8	1-3/4	1-3/4	5-15/16	5-15/16	3-1/2	3-1/2	8-1/4	11-TY3-08-0065	41-TY3-08-0065
3	3-17/32	3-1/2	3-17/32	3-1/2	1-7/8	1-7/8	6-13/16	6-13/16	4-5/16	4-19/64	9-5/8	11-TY3-08-0080	41-TY3-08-0080
4	4-17/32	4-1/2	4-17/32	4-1/2	2-1/4	2-1/4	8-1/4	8-1/4	5-3/8	5-23/64	11-11/16	11-TY3-08-0100	41-TY3-08-0100
△ 4x4x2	4-17/32	4-1/2	2-13/32	2-3/8	2-1/4	1-1/2	8-1/4	8-21/32	5-3/8	5-23/64	11-11/16	11-TY3-08-100050	41-TY3-08-100050
4x4x3	4-17/32	4-1/2	3-17/32	3-1/2	2-1/4	1-7/8	7-1/2	7-7/8	5-3/8	5-23/64	10-5/16	11-TY3-08-100080	41-TY3-08-100080
6	6-21/32	6-5/8	6-21/32	6-5/8	3	3	11-1/16	11-25/32	7-23/32	7-23/32	15-7/8	11-TY3-08-0150	41-TY3-08-0150
△ 6x6x2	6-21/32	6-5/8	2-13/32	2-3/8	3	1-1/2	11-1/16	12-1/4	7-23/32	7-23/32	15-7/8	11-TY3-08-150050	41-TY3-08-150050
△ 6x6x3	6-21/32	6-5/8	3-17/32	3-1/2	3	1-7/8	11-1/16	12-1/4	7-23/32	7-23/32	15-7/8	11-TY3-08-150080	41-TY3-08-150080
6x6x4	6-21/32	6-5/8	4-17/32	4-1/2	3	2-1/4	10-1/8	10-1/4	7-23/32	7-23/32	13-5/16	11-TY3-08-150100	41-TY3-08-150100
8	8-21/32	8-5/8	8-11/16	8-5/8	4	4	15-7/8	17-5/32	10-5/32	10-5/32	23-5/8	11-TY3-08-0200	41-TY3-08-0200
△ 8x8x2	8-21/32	8-5/8	2-13/32	2-3/8	4-11/32	1-1/2	15-7/8	17-5/32	10-5/32	10-5/32	23-5/8	11-TY3-08-200050	41-TY3-08-200050
△ 8x8x3	8-21/32	8-5/8	3-17/32	3-1/2	4-11/32	1-7/8	15-7/8	17-5/32	10-5/32	10-5/32	23-5/8	11-TY3-08-200080	41-TY3-08-200080
△ 8x8x4	8-21/32	8-5/8	4-17/32	4-1/2	4-11/32	2-1/4	15-7/8	17-5/32	10-5/32	10-5/32	23-5/8	11-TY3-08-200100	41-TY3-08-200100
△ 8x8x6	8-21/32	8-5/8	6-21/32	6-5/8	4-11/32	3	15-7/8	17-5/32	10-5/32	10-5/32	23-5/8	11-TY3-08-200150	41-TY3-08-200150
10	10-25/32	10-3/4	10-25/32	10-3/4	5	5	20-9/32	19-5/16	12-7/16	12-7/16	28-1/2	11-TY3-08-0250	41-TY3-08-0250
△ 10x10x3	10-25/32	10-3/4	3-17/32	3-1/2	5	1-1/8	20-9/32	19-29/32	12-7/16	12-7/16	28-1/2	11-TY3-08-250080	41-TY3-08-250080
△ 10x10x4	10-25/32	10-3/4	4-17/32	4-1/2	5	2-1/4	20-9/32	19-29/32	12-7/16	12-7/16	28-1/2	11-TY3-08-250100	41-TY3-08-250100
△ 10x10x6	10-25/32	10-3/4	6-21/32	6-5/8	5	3	20-9/32	19-29/32	12-7/16	12-7/16	28-1/2	11-TY3-08-250150	41-TY3-08-250150
△ 10x10x8	10-25/32	10-3/4	8-11/16	8-5/8	5	4	20-9/32	19-29/32	12-7/16	12-7/16	28-1/2	11-TY3-08-250200	41-TY3-08-250200
12	12-25/32	12-3/4	12-25/32	12-3/4	6	6	22-31/32	22-9/32	14-7/32	14-7/32	32-9/32	11-TY3-08-0300	41-TY3-08-0300
△ 12x12x2	12-25/32	12-3/4	2-13/32	2-3/8	6	1-1/2	22-31/32	22-31/32	14-7/32	14-7/32	32-9/32	11-TY3-08-300050	41-TY3-08-300050
△ 12x12x3	12-25/32	12-3/4	3-17/32	3-1/2	6	1-7/8	22-31/32	22-31/32	14-7/32	14-7/32	32-9/32	11-TY3-08-300080	41-TY3-08-300080
△ 12x12x4	12-25/32	12-3/4	4-17/32	4-1/2	6	2-1/4	22-31/32	22-31/32	14-7/32	14-7/32	32-9/32	11-TY3-08-300100	41-TY3-08-300100
△ 12x12x6	12-25/32	12-3/4	6-21/32	6-5/8	6	3	22-31/32	22-31/32	14-7/32	14-7/32	32-9/32	11-TY3-08-300150	41-TY3-08-300150
△ 12x12x8	12-25/32	12-3/4	8-11/16	8-5/8	6	4	22-31/32	22-31/32	14-7/32	14-7/32	32-9/32	11-TY3-08-300200	41-TY3-08-300200
△ 12x12x10	12-25/32	12-3/4	10-25/32	10-3/4	6	5	22-31/32	22-31/32	14-7/32	14-7/32	32-9/32	11-TY3-08-300250	41-TY3-08-300250
* 14	14-1/32	13-29/32	14-1/32	13-29/32	7	7	30-1/2	30-1/2	15-1/2	15-1/2	47	11-TY3-08-0350	41-TY3-08-0350
* 16	16-2/32	15-29/32	16-2/32	15-29/32	8	8	33-3/8	33-3/8	17-3/4	17-3/4	50-3/4	11-TY3-08-0400	41-TY3-08-0400
* 18	18-2/32	17-29/32	18-2/32	17-29/32	9	9	37	37	19-7/8	19-7/8	58	11-TY3-08-0450	41-TY3-08-0450
* 20	20-2/32	19-29/32	20-2/32	19-29/32	10	10	41-5/8	41-5/8	22-1/8	22-1/8	63-1/4	11-TY3-08-0500	41-TY3-08-0500
* 24	24-1/8	23-15/16	24-1/8	23-15/16	12	12	50-1/2	50-1/2	26-1/2	26-1/2	78-1/2	11-TY3-08-0600	41-TY3-08-0600

△ 轉接品 (Transition) * 手工製品 (Fabricated)

CROSS (Soc*Soc*Soc*Soc) 四通 (ANSI SCH80)



單位 (unit) : inch

Size	A	B	C	H	M	L	UPVC code no.	CPVC code no.
1/2	27/32	27/32	7/8	1-11/32	1-3/16	2-23/32	11-TZ1-08-0015	41-TZ1-08-0015
3/4	1-1/16	1-1/16	1	1-5/8	1-3/8	3-1/4	11-TZ1-08-0020	41-TZ1-08-0020
1	1-11/32	1-5/16	1-1/8	2-3/32	1-11/16	4-3/16	11-TZ1-08-0025	41-TZ1-08-0025
1-1/4	1-11/16	1-21/32	1-1/8	2-11/32	2-1/16	4-11/16	11-TZ1-08-0032	41-TZ1-08-0032
1-1/2	1-29/32	1-29/32	1-3/8	2-5/8	2-7/16	5-1/4	11-TZ1-08-0040	41-TZ1-08-0040
2	2-13/32	2-3/8	1-1/2	3	3-1/16	6	11-TZ1-08-0050	41-TZ1-08-0050
2-1/2	2-29/32	2-7/8	1-3/4	3-7/16	3-19/32	6-7/8	11-TZ1-08-0065	41-TZ1-08-0065
3	3-17/32	3-1/2	1-7/8	3-15/16	4-3/16	7-7/8	11-TZ1-08-0080	41-TZ1-08-0080
4	4-17/32	4-1/2	2-1/4	4-7/8	5-1/4	9-3/4	11-TZ1-08-0100	41-TZ1-08-0100
* 6	6-5/8	6-19/32	3	10-1/2	7-1/2	21	11-TZ1-08-0150	41-TZ1-08-0150
* 8	8-21/32	8-19/32	3-31/32	12-1/8	9-3/8	24-1/4	11-TZ1-08-0200	41-TZ1-08-0200
* 10	10-7/8	10-25/32	5-17/32	14-1/2	12	29	11-TZ1-08-0250	41-TZ1-08-0250
* 12	12-13/16	12-11/16	6-5/16	16-7/16	14-1/8	32-7/8	11-TZ1-08-0300	41-TZ1-08-0300
* 14	14-1/32	13-29/32	7	19-1/4	15-1/2	38-1/2	11-TZ1-08-0350	41-TZ1-08-0350
* 16	16-1/16	15-29/32	8-15/32	21-1/8	17-11/16	42-1/4	11-TZ1-08-0400	41-TZ1-08-0400
* 18	18-1/16	17-7/8	9	23-1/2	20	47	11-TZ1-08-0450	41-TZ1-08-0450
* 20	20-3/32	19-29/32	10	24-7/8	22-1/8	49-3/4	11-TZ1-08-0500	41-TZ1-08-0500
* 24	24-1/8	23-15/16	11-1/32	28-3/4	26-1/2	57-1/2	11-TZ1-08-0600	41-TZ1-08-0600

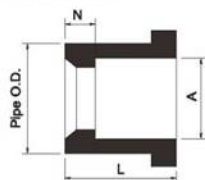
* 手工製品 (Fabricated)



UPVC / CPVC PIPE FITTING VALVE

REDUCER BUSHING

(SipgxSoc)
(Flush Style)
卜申
(ANSI SCH80)



單位(unit): inch

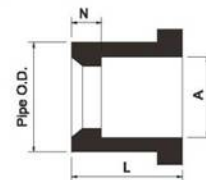
Size	N	L	A	UPVC code no.	CPVC code no.
3/4x1/2	13/32	1-9/32	27/32	11-RB1-08-020015	41-RB1-08-020015
1x1/2	1/2	1-3/8	27/32	11-RB1-08-025015	41-RB1-08-025015
1x3/4	13/32	1-3/8	1-1/16	11-RB1-08-025020	41-RB1-08-025020
1-1/4x1/2	23/32	1-9/16	27/32	11-RB1-08-032015	41-RB1-08-032015
1-1/4x3/4	9/16	1-9/16	1-1/16	11-RB1-08-032020	41-RB1-08-032020
1-1/4x1	15/32	1-9/16	1-11/32	11-RB1-08-032025	41-RB1-08-032025
1-1/2x1/2	7/8	1-23/32	27/32	11-RB1-08-040015	41-RB1-08-040015
1-1/2x3/4	3/4	1-23/32	1-1/16	11-RB1-08-040020	41-RB1-08-040020
1-1/2x1	5/8	1-23/32	1-11/32	11-RB1-08-040025	41-RB1-08-040025
1-1/2x1-1/4	15/32	1-23/32	1-11/16	11-RB1-08-040032	41-RB1-08-040032
2x1/2	31/32	1-29/32	27/32	11-RB1-08-050015	41-RB1-08-050015
2x3/4	29/32	1-29/32	1-1/16	11-RB1-08-050020	41-RB1-08-050020
2x1	25/32	1-29/32	1-11/32	11-RB1-08-050025	41-RB1-08-050025
2x1-1/4	21/32	1-29/32	1-11/16	11-RB1-08-050032	41-RB1-08-050032
2x1-1/2	9/16	1-29/32	1-15/16	11-RB1-08-050040	41-RB1-08-050040
2-1/2x2	27/32	2-11/32	2-13/32	11-RB1-08-065050	41-RB1-08-065050
3x1	1-7/32	2-5/16	1-11/32	11-RB1-08-080025	41-RB1-08-080025
3x1-1/2	15/16	2-5/16	1-15/16	11-RB1-08-080040	41-RB1-08-080040
3x2	13/16	2-5/16	2-13/32	11-RB1-08-080050	41-RB1-08-080050
3x2-1/2	9/32	2-5/16	2-29/32	11-RB1-08-080065	41-RB1-08-080065
4x2	1-5/32	2-21/32	2-13/32	11-RB1-08-100050	41-RB1-08-100050
4x3	25/32	2-21/32	3-17/32	11-RB1-08-100080	41-RB1-08-100080
5x3	1-5/32	3-1/32	3-17/32	11-RB1-08-125080	41-RB1-08-125080



UPVC / CPVC PIPE FITTING VALVE

REDUCER BUSHING

(SipgxSoc)
(Flush Style)
卜申
(ANSI SCH80)



單位(unit): inch

Size	N	L	A	UPVC code no.	CPVC code no.
5x4	25/32	3-1/32	4-17/32	11-RB1-08-125100	41-RB1-08-125100
6x2	1-31/32	3-15/32	2-13/32	11-RB1-08-150050	41-RB1-08-150050
6x3	1-23/32	3-9/16	3-17/32	11-RB1-08-150080	41-RB1-08-150080
6x4	1-9/32	3-9/16	4-17/32	11-RB1-08-150100	41-RB1-08-150100
6x5	27/32	3-15/32	5-19/32	11-RB1-08-150125	41-RB1-08-150125
8x2	3	4-17/32	2-13/32	11-RB1-08-200050	41-RB1-08-200050
8x3	2-21/32	4-17/32	3-17/32	11-RB1-08-200080	41-RB1-08-200080
8x4	2-1/4	4-17/32	4-17/32	11-RB1-08-200100	41-RB1-08-200100
8x5	1-29/32	4-17/32	5-19/32	11-RB1-08-200125	41-RB1-08-200125
8x6	1-17/32	4-17/32	6-21/32	11-RB1-08-200150	41-RB1-08-200150
10x3	3-3/4	5-5/8	3-17/32	11-RB1-08-250080	41-RB1-08-250080
10x4	3-11/32	5-5/8	4-17/32	11-RB1-08-250100	41-RB1-08-250100
10x6	2-19/32	5-5/8	6-21/32	11-RB1-08-250150	41-RB1-08-250150
10x8	1-5/8	5-21/32	8-21/32	11-RB1-08-250200	41-RB1-08-250200
12x4	4-7/16	6-23/32	4-17/32	11-RB1-08-300100	41-RB1-08-300100
12x6	3-23/32	6-23/32	6-21/32	11-RB1-08-300150	41-RB1-08-300150
12x8	2-23/32	6-1/2	8-21/32	11-RB1-08-300200	41-RB1-08-300200
12x10	1-23/32	6-1/2	10-7/8	11-RB1-08-300250	41-RB1-08-300250
14x8	3-25/32	7-25/32	8-21/32	11-RB1-08-350200	41-RB1-08-350200
14x12	1-25/32	7-25/32	12-25/32	11-RB1-08-350300	41-RB1-08-350300
16x14	1-15/16	8-15/16	14-1/32	11-RB1-08-400350	41-RB1-08-400350
18x16	1-31/32	9-31/32	16-1/32	11-RB1-08-450400	41-RB1-08-450400
* 20x18	2-1/32	11-1/32	18-1/32	11-RB1-08-500450	41-RB1-08-500450
* 24x20	3-7/16	13-1/2	20-1/32	11-RB1-08-600500	41-RB1-08-600500

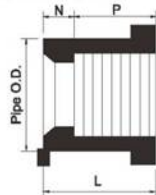
*手工製品(Fabricated)



UPVC / CPVC PIPE FITTING VALVE

REDUCER BUSHING

(SpigxFit)
(Flush Style)
内牙ト申
(ANSI SCH80)



NSF

単位(unit): inch

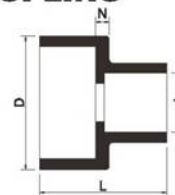
Size	N	L	P	UPVC code no.	CPVC code no.
3/8 x 1/4	3/8	1	5/8	11-RB2-08-010008	41-RB2-08-010008
1/2 x 1/8	11/16	1-1/16	3/8	11-RB2-08-015003	41-RB2-08-015003
1/2 x 1/4	7/16	1-3/32	21/32	11-RB2-08-015008	41-RB2-08-015008
1/2 x 3/8	15/32	1-3/32	5/8	11-RB2-08-015010	41-RB2-08-015010
3/4 x 1/4	11/16	1-1/4	9/16	11-RB2-08-020008	41-RB2-08-020008
3/4 x 1/2	11/16	1-1/4	9/16	11-RB2-08-020015	41-RB2-08-020015
1 x 3/8	13/16	1-3/8	9/16	11-RB2-08-025010	41-RB2-08-025010
1 x 1/2	27/32	1-7/16	19/32	11-RB2-08-025015	41-RB2-08-025015
1 x 3/4	5/8	1-7/16	23/32	11-RB2-08-025020	41-RB2-08-025020
1-1/4 x 1/2	13/16	1-9/16	3/4	11-RB2-08-032015	41-RB2-08-032015
1-1/4 x 3/4	3/4	1-9/16	13/16	11-RB2-08-032020	41-RB2-08-032020
1-1/4 x 1	5/8	1-9/16	15/16	11-RB2-08-032025	41-RB2-08-032025
1-1/2 x 1/2	1	1-11/16	11/16	11-RB2-08-040015	41-RB2-08-040015
1-1/2 x 3/4	1	1-3/4	3/4	11-RB2-08-040020	41-RB2-08-040020
1-1/2 x 1	9/16	1-3/4	1-3/16	11-RB2-08-040025	41-RB2-08-040025
1-1/2 x 1-1/4	11/16	1-11/16	1	11-RB2-08-040032	41-RB2-08-040032
2 x 1/2	1-1/8	1-15/16	13/16	11-RB2-08-050015	41-RB2-08-050015
2 x 3/4	1-5/32	1-7/8	23/32	11-RB2-08-050020	41-RB2-08-050020
2 x 1	15/16	1-7/8	15/16	11-RB2-08-050025	41-RB2-08-050025
2 x 1-1/4	29/32	1-7/8	31/32	11-RB2-08-050032	41-RB2-08-050032
2 x 1-1/2	7/8	1-7/8	1	11-RB2-08-050040	41-RB2-08-050040
2-1/2 x 1/2	1-11/16	2-3/8	11/16	11-RB2-08-065015	41-RB2-08-065015
2-1/2 x 3/4	1-5/8	2-7/16	13/16	11-RB2-08-065020	41-RB2-08-065020
2-1/2 x 1	1-3/8	2-7/16	1-1/16	11-RB2-08-065025	41-RB2-08-065025
2-1/2 x 1-1/4	1-3/8	2-3/8	1	11-RB2-08-065032	41-RB2-08-065032
2-1/2 x 1-1/2	1-3/8	2-3/8	1	11-RB2-08-065040	41-RB2-08-065040
2-1/2 x 2	1-5/16	2-3/8	1-1/16	11-RB2-08-065050	41-RB2-08-065050
3 x 3/4	1-7/8	2-7/16	9/16	11-RB2-08-080020	41-RB2-08-080020
3 x 1	1-3/8	2-7/16	1-1/16	11-RB2-08-080025	41-RB2-08-080025
3 x 1-1/4	1-3/8	2-7/16	1-1/16	11-RB2-08-080032	41-RB2-08-080032
3 x 1-1/2	1-3/8	2-7/16	1-1/16	11-RB2-08-080040	41-RB2-08-080040
3 x 2	1-3/8	2-3/8	1	11-RB2-08-080050	41-RB2-08-080050
3 x 2-1/2	13/16	2-3/8	1-9/16	11-RB2-08-080065	41-RB2-08-080065
4 x 2	1-1/2	2-5/8	1-1/8	11-RB2-08-100050	41-RB2-08-100050
4 x 2-1/2	1-1/8	2-11/16	1-9/16	11-RB2-08-100065	41-RB2-08-100065
4 x 3	1-1/16	2-11/16	1-5/8	11-RB2-08-100080	41-RB2-08-100080
6 x 2	2-15/16	4-1/16	1-1/8	11-RB2-08-150050	41-RB2-08-150050
6 x 3	2-3/8	4	1-5/8	11-RB2-08-150080	41-RB2-08-150080
6 x 4	2-1/4	4	1-3/4	11-RB2-08-150100	41-RB2-08-150100



UPVC / CPVC PIPE FITTING VALVE

REDUCER COUPLING

(SocxSoc)
大頭
(ANSI SCH80)



NSF

単位(unit): inch

Size	D	d	N	L	UPVC code no.	CPVC code no.
3/4x1/2	1-3/8	27/32	11/32	2-1/8	11-RC1-08-020015	41-RC1-08-020015
1x1/2	1-11/16	27/32	7/32	2-3/16	11-RC1-08-025015	41-RC1-08-025015
1x3/4	1-11/16	1-3/32	5/16	2-11/32	11-RC1-08-025020	41-RC1-08-025020
1-1/4x3/4	2-3/32	1-3/32	13/32	2-1/2	11-RC1-08-032020	41-RC1-08-032020
1-1/4x1	2-3/32	1-11/32	5/16	2-11/16	11-RC1-08-032025	41-RC1-08-032025
1-1/2x1/2	2-11/32	27/32	21/32	2-25/32	11-RC1-08-040015	41-RC1-08-040015
1-1/2x3/4	2-11/32	1-1/16	1/4	2-1/2	11-RC1-08-040020	41-RC1-08-040020
1-1/2x1	2-11/32	1-11/32	1/4	2-5/8	11-RC1-08-040025	41-RC1-08-040025
1-1/2x1-1/4	2-11/32	1-11/16	9/32	2-13/16	11-RC1-08-040032	41-RC1-08-040032
2x1/2	2-27/32	27/32	15/16	2-31/32	11-RC1-08-050015	41-RC1-08-050015
2x3/4	2-27/32	1-3/32	5/16	2-31/32	11-RC1-08-050020	41-RC1-08-050020
2x1	2-27/32	1-11/32	5/16	3-5/32	11-RC1-08-050025	41-RC1-08-050025
2x1-1/2	2-7/8	1-15/16	19/32	3-7/32	11-RC1-08-050040	41-RC1-08-050040
3x2	4-1/8	2-13/32	13/32	3-9/16	11-RC1-08-080050	41-RC1-08-080050
4x2	5-1/4	2-13/32	13/32	3-15/16	11-RC1-08-100050	41-RC1-08-100050
4x3	5-1/4	3-17/32	15/32	4-11/32	11-RC1-08-100080	41-RC1-08-100080
5x4	6-3/8	4-17/32	1/2	5-3/8	11-RC1-08-125100	41-RC1-08-125100
6x4	7-17/32	4-17/32	17/32	6-11/16	11-RC1-08-150100	41-RC1-08-150100
6x5	7-17/32	6-21/32	9/16	6-21/32	11-RC1-08-150125	41-RC1-08-150125
8x6	9-21/32	6-21/32	11/16	8	11-RC1-08-200150	41-RC1-08-200150
10x8	12-1/16	8-21/32	1-1/8	10-31/32	11-RC1-08-250200	41-RC1-08-250200
12x10	14-1/32	10-25/32	1-1/2	12-3/4	11-RC1-08-300250	41-RC1-08-300250
△ 14x12	15-41/64	12-13/16	3/8	15-11/64	11-RC1-08-350300	41-RC1-08-350300
△ 16x14	17-23/32	14-1/32	1-19/64	18-3/16	11-RC1-08-400350	41-RC1-08-400350
△ 18x16	19-7/8	16-1/32	1-17/32	20-31/64	11-RC1-08-450400	41-RC1-08-450400
* 20x18	20-1/8	18-1/32	5-49/64	24-13/16	11-RC1-08-500450	41-RC1-08-500450
* 24x20	26-41/64	20-1/16	6-7/64	26-23/64	11-RC1-08-600500	41-RC1-08-600500

△ 轉接品 (Transition)
* 手工製品 (Fabricated)



UPVC / CPVC PIPE FITTING VALVE



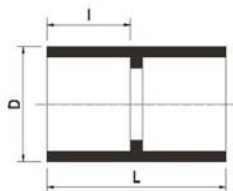
UPVC / CPVC PIPE FITTING VALVE

COUPLING

(Soc*Soc)

平接頭

(ANSI SCH80)



單位 (unit) : inch

Size	D	I	L	UPVC code no.	CPVC code no.
1/2	1-8/32	29/32	1-15/16	11-CL2-08-0015	41-CL2-08-0015
3/4	1-15/32	1	2-3/16	11-CL2-08-0020	41-CL2-08-0020
1	1-3/4	1-1/8	2-1/2	11-CL2-08-0025	41-CL2-08-0025
1-1/4	2-3/16	1-1/4	2-23/32	11-CL2-08-0032	41-CL2-08-0032
1-1/2	2-1/2	1-3/8	2-31/32	11-CL2-08-0040	41-CL2-08-0040
2	2-31/32	1-1/2	3-5/16	11-CL2-08-0050	41-CL2-08-0050
2-1/2	3-9/16	1-25/32	3-27/32	11-CL2-08-0065	41-CL2-08-0065
3	4-1/4	1-7/8	3-31/32	11-CL2-08-0080	41-CL2-08-0080
4	5-5/16	2-1/4	4-25/32	11-CL2-08-0100	41-CL2-08-0100
5	6-3/8	2-21/32	5-17/32	11-CL2-08-0125	41-CL2-08-0125
6	7-5/8	2-31/32	6-7/32	11-CL2-08-0150	41-CL2-08-0150
8	9-11/16	3-15/16	8-1/2	11-CL2-08-0200	41-CL2-08-0200
10	12-15/32	5-1/32	10-9/16	11-CL2-08-0250	41-CL2-08-0250
12	14-3/8	6-1/32	12-13/32	11-CL2-08-0300	41-CL2-08-0300
14	15-1/2	7	14-3/8	11-CL2-08-0350	41-CL2-08-0350
16	17-23/32	8	17-5/16	11-CL2-08-0400	41-CL2-08-0400
18	19-7/8	9	19-17/32	11-CL2-08-0450	41-CL2-08-0450
* 20	22-1/8	10-3/64	24-13/16	11-CL2-08-0500	41-CL2-08-0500
* 24	26-37/64	12-13/64	30-23/32	11-CL2-08-0600	41-CL2-08-0600

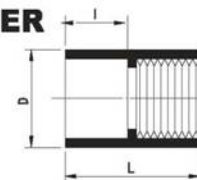
*手工製品 (Fabricated)

FEMALE ADAPTER

(SocxFipt)

內牙閥接頭

(ANSI SCH80)



單位 (unit) : inch

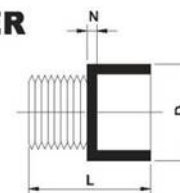
Size	D	I	L	UPVC code no.	CPVC code no.
1/2	1-3/16	7/8	1-25/32	11-FD3-08-0015	41-FD3-08-0015
3/4	1-3/8	1	1-29/32	11-FD3-08-0020	41-FD3-08-0020
1	1-11/16	1-5/32	2-7/32	11-FD3-08-0025	41-FD3-08-0025
1-1/4	2-3/16	1-1/4	2-3/8	11-FD3-08-0032	41-FD3-08-0032
1-1/2	2-5/16	1-13/32	2-1/2	11-FD3-08-0040	41-FD3-08-0040
2	3	1-17/32	2-11/16	11-FD3-08-0050	41-FD3-08-0050
2-1/2	3-1/2	1-3/4	3-17/32	11-FD3-08-0065	41-FD3-08-0065
3	4-5/32	1-7/8	3-27/32	11-FD3-08-0080	41-FD3-08-0080
4	5-1/32	2-1/4	4-11/32	11-FD3-08-0100	41-FD3-08-0100

MALE ADAPTER

(MiptxSoc)

外牙閥接頭

(ANSI SCH80)



單位 (unit) : inch

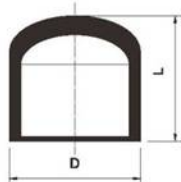
Size	D	N	L	UPVC code no.	CPVC code no.
1/2	1-1/4	1/4	1-7/8	11-MD3-08-0015	41-MD3-08-0015
3/4	1-3/8	1/4	2-3/32	11-MD3-08-0020	41-MD3-08-0020
1	1-23/32	1/4	2-3/8	11-MD3-08-0025	41-MD3-08-0025
1-1/4	2-27/32	9/32	2-1/2	11-MD3-08-0032	41-MD3-08-0032
1-1/2	2-3/8	1/4	2-11/16	11-MD3-08-0040	41-MD3-08-0040
2	2-7/8	5/16	2-7/8	11-MD3-08-0050	41-MD3-08-0050
2-1/2	3-15/32	5/16	3-11/16	11-MD3-08-0065	41-MD3-08-0065
3	4-3/16	13/32	3-3/4	11-MD3-08-0080	41-MD3-08-0080
4	5-7/32	7/16	4-13/32	11-MD3-08-0100	41-MD3-08-0100



UPVC / CPVC PIPE FITTING VALVE

CAP

(Soc)
管帽
(ANSI SCH80)



單位 (unit) : inch

Size	D	L	UPVC code no.	CPVC code no.
1/2	1-3/16	1-1/4	11-CP4-08-0015	41-CP4-08-0015
3/4	1-3/8	1-13/32	11-CP4-08-0020	41-CP4-08-0020
1	1-11/16	1-21/32	11-CP4-08-0025	41-CP4-08-0025
1-1/4	2-7/32	1-7/8	11-CP4-08-0032	41-CP4-08-0032
1-1/2	2-5/16	2-1/16	11-CP4-08-0040	41-CP4-08-0040
2	3-1/32	2-7/16	11-CP4-08-0050	41-CP4-08-0050
2-1/2	3-9/16	2-9/16	11-CP4-08-0065	41-CP4-08-0065
3	4-9/32	3	11-CP4-08-0080	41-CP4-08-0080
4	5-13/32	3-15/32	11-CP4-08-0100	41-CP4-08-0100
6	7-9/16	4-23/32	11-CP4-08-0150	41-CP4-08-0150
8	9-9/16	6-7/32	11-CP4-08-0200	41-CP4-08-0200
10	12-5/16	8-3/16	11-CP4-08-0250	41-CP4-08-0250
12	14-3/8	9-17/32	11-CP4-08-0300	41-CP4-08-0300
* 14	15-1/2	7-3/8	11-CP4-08-0350	41-CP4-08-0350
* 16	17-23/32	8-1/2	11-CP4-08-0400	41-CP4-08-0400
* 18	20	9-1/4	11-CP4-08-0450	41-CP4-08-0450
* 20	22-1/8	14	11-CP4-08-0500	41-CP4-08-0500
* 24	26-41/64	18	11-CP4-08-0600	41-CP4-08-0600

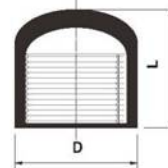
*手工製品 (Fabricated)



UPVC / CPVC PIPE FITTING VALVE

CAP

(Fipt)
內牙管帽
(ANSI SCH80)

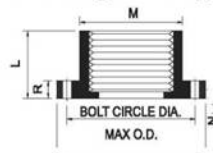


單位 (unit) : inch

Size	D	L	UPVC code no.	CPVC code no.
1/2	1-3/16	1-1/4	11-CP3-08-0015	41-CP3-08-0015
3/4	1-3/8	1-13/32	11-CP3-08-0020	41-CP3-08-0020
1	1-11/16	1-21/32	11-CP3-08-0025	41-CP3-08-0025
1-1/4	2-7/32	1-7/8	11-CP3-08-0032	41-CP3-08-0032
1-1/2	2-5/16	2-1/16	11-CP3-08-0040	41-CP3-08-0040
2	3-1/32	2-7/16	11-CP3-08-0050	41-CP3-08-0050
2-1/2	3-9/16	2-9/16	11-CP3-08-0065	41-CP3-08-0065
3	4-9/32	3	11-CP3-08-0080	41-CP3-08-0080
4	5-13/32	3-15/32	11-CP3-08-0100	41-CP3-08-0100

One-Piece Flange--Fipt

牙口法蘭
(ANSI)



單位 (unit) : inch

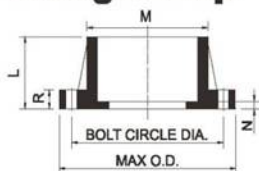
Size	MAX. O.D.	L	M	N	R	Bolt Circle Dia.	No. of Bolt Holes	Bolt Size	Min. Bolt Length	UPVC code no.	CPVC code no.
1/2	3-1/2	13/16	1-3/8	9/32	9/16	2-3/8	4	1/2	2	11-FTA-08-0015	41-FTA-08-0015
3/4	3-7/8	7/8	1-3/4	5/16	9/16	2-3/4	4	1/2	2	11-FTA-08-0020	41-FTA-08-0020
1	4-1/4	31/32	2-21/32	11/32	3/8	3-1/8	4	1/2	2-1/4	11-FTA-08-0025	41-FTA-08-0025
1-1/4	4-5/8	31/32	2-3/8	7/32	3/8	3-1/2	4	1/2	2-1/4	11-FTA-08-0032	41-FTA-08-0032
1-1/2	5	1	2-3/4	1/4	3/8	3-7/8	4	1/2	2-1/2	11-FTA-08-0040	41-FTA-08-0040
2	6	1-3/16	3-5/16	5/16	13/16	4-3/4	4	5/8	3	11-FTA-08-0050	41-FTA-08-0050
2-1/2	7	17/32	4-3/16	5/16	13/16	5-1/2	4	5/8	3-1/4	11-FTA-08-0065	41-FTA-08-0065
3	7-1/2	1-1/4	4-11/32	3/8	7/8	6	4	5/8	3-1/4	11-FTA-08-0080	41-FTA-08-0080
4	9-1/16	1-7/16	5-9/16	9/16	7/8	7-1/2	8	5/8	3-1/2	11-FTA-08-0100	41-FTA-08-0100



UPVC / CPVC PIPE FITTING VALVE

One-Piece Flange--Slip

單片式法蘭
(ANSI)



NSF

單位 (unit) : inch

Size	MAX. O.D.	L	M	N	R	Bolt Circle Dia.	No. of Bolt Holes	Bolt Size	Min. Bolt Length	UPVC code no.	CPVC code no.
1/2	3-1/2	13/16	1-3/8	9/32	9/16	2-3/8	4	1/2	2	11-FT4-08-0015	41-FT4-08-0015
3/4	3-7/8	7/8	1-3/4	5/16	9/16	2-3/4	4	1/2	2	11-FT4-08-0020	41-FT4-08-0020
1	4-1/4	31/32	2-21/32	11/32	3/8	3-1/8	4	1/2	2-1/4	11-FT4-08-0025	41-FT4-08-0025
1-1/4	4-5/8	31/32	2-3/8	7/32	3/8	3-1/2	4	1/2	2-1/4	11-FT4-08-0032	41-FT4-08-0032
1-1/2	5	1	2-3/4	1/4	3/8	3-7/8	4	1/2	2-1/2	11-FT4-08-0040	41-FT4-08-0040
2	6	1-3/16	3-5/16	5/16	13/16	4-3/4	4	5/8	3	11-FT4-08-0050	41-FT4-08-0050
2-1/2	7	17/32	4-3/16	5/16	13/16	5-1/2	4	5/8	3-1/4	11-FT4-08-0065	41-FT4-08-0065
3	7-1/2	1-1/4	4-11/32	3/8	7/8	6	4	5/8	3-1/4	11-FT4-08-0080	41-FT4-08-0080
4	9-1/16	1-7/16	5-9/16	9/16	7/8	7-1/2	8	5/8	3-1/2	11-FT4-08-0100	41-FT4-08-0100
5	10-1/16	3-7/8	6-3/8	1/4	1	8-1/2	8	3/4	3-3/4	11-FT4-08-0125	41-FT4-08-0125
6	11	3-7/8	7-9/16	3/16	1-1/4	9-1/2	8	3/4	4	11-FT4-08-0150	41-FT4-08-0150
8	13-7/16	6-1/2	9-3/4	7/16	13/16	11-3/4	8	3/4	4-1/2	11-FT4-08-0200	41-FT4-08-0200
10	16	5-9/16	12	9/16	1-11/32	14-1/4	12	15/16	5	11-FT4-08-0250	41-FT4-08-0250
12	19	6-5/8	14-1/2	5/8	1-7/16	17	12	31/32	5	11-FT4-08-0300	41-FT4-08-0300
* 14	21	7-5/8	15-3/4	5/8	1-1/2	18-3/4	12	1-5/8	5-1/2	11-FT4-08-0350	41-FT4-08-0350
* 16	23-1/2	8-23/32	17-11/16	23/32	1-19/32	21-1/4	16	1-3/32	6-1/2	11-FT4-08-0400	41-FT4-08-0400
* 18	25	9-23/32	20	23/32	1-21/32	22-3/4	16	1-1/8	6-1/2	11-FT4-08-0450	41-FT4-08-0450
* 20	27-1/2	10-25/32	22-1/8	3/4	1-3/4	25	20	1-9/32	5-15/16	11-FT4-08-0500	41-FT4-08-0500
* 24	32	12-19/32	26-1/2	3/4	1-13/16	29-1/2	20	1-3/8	6-9/32	11-FT4-08-0600	41-FT4-08-0600

*手工製品 (Fabricated)



UPVC / CPVC PIPE FITTING VALVE

Van Stone Style Flange--Slip

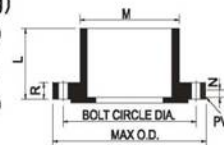
(Two-Piece) (with plastic ring)

1/2"~16" 二片式法蘭 (塑膠環)

(Two-Piece) (with steel ring)

18"~24" 二片式法蘭 (金屬環)

(ANSI)



NSF

單位 (unit) : inch

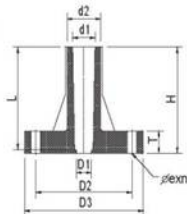
Size	MAX. O.D.	L	M	N	R	Bolt Circle Dia.	No. of Bolt Holes	Bolt Size	Min. Bolt Length	UPVC code no.	CPVC code no.
1/2	3-1/2	1	1-7/32	1/8	1/2	2-3/8	4	1/2	2	11-FT5-08-0015	41-FT5-08-0015
3/4	3-7/8	1-1/8	1-7/16	1/8	9/16	2-3/4	4	1/2	2	11-FT5-08-0020	41-FT5-08-0020
1	4-1/4	1-1/4	1-3/4	1/8	41/64	3-1/8	4	1/2	2-1/4	11-FT5-08-0025	41-FT5-08-0025
1-1/4	4-9/16	1-3/8	2-1/8	1/8	41/64	3-1/2	4	1/2	2-1/4	11-FT5-08-0032	41-FT5-08-0032
1-1/2	4-15/16	1-1/2	2-3/8	1/8	11/16	3-7/8	4	1/2	2-1/2	11-FT5-08-0040	41-FT5-08-0040
2	5-7/8	1-37/64	2-7/8	1/8	13/16	4-3/4	4	5/8	3	11-FT5-08-0050	41-FT5-08-0050
2-1/2	6-15/16	1-15/16	3-9/16	3/16	7/8	5-1/2	4	5/8	3-1/4	11-FT5-08-0065	41-FT5-08-0065
3	7-1/2	2-1/4	4-1/4	1/4	1	6	8	5/8	3-1/4	11-FT5-08-0080	41-FT5-08-0080
4	9-1/16	2-7/16	5-1/4	1/4	1	7-1/2	8	5/8	3-1/2	11-FT5-08-0100	41-FT5-08-0100
5	10-1/8	2-7/8	6-1/4	1/4	1-1/8	8-1/2	8	3/4	3-3/4	11-FT5-08-0125	41-FT5-08-0125
6	11-7/32	3-1/4	7-9/16	3/8	1-3/8	9-17/32	8	3/4	4	11-FT5-08-0150	41-FT5-08-0150
8	13-1/2	4-3/8	9-17/32	1/4	1-15/32	11-21/32	8	3/4	4-1/2	11-FT5-08-0200	41-FT5-08-0200
10	16-1/8	5-19/32	11-3/4	3/8	1-11/16	14-7/32	12	7/8	5	11-FT5-08-0250	41-FT5-08-0250
12	19-3/32	7-1/4	13-3/4	9/16	1-11/16	16-15/16	12	7/8	5	11-FT5-08-0300	41-FT5-08-0300
14	21-1/16	7-17/32	15-17/32	7/16	2	18-13/16	12	1	5-1/2	11-FT5-08-0350	41-FT5-08-0350
16	23-1/2	8-17/32	17-23/32	7/16	2-3/8	21-5/16	16	1	6-1/2	11-FT5-08-0400	41-FT5-08-0400
18	25	9-15/32	20	1/4	1-3/8	22-3/4	16	1-1/4	6-1/2	11-FT5-08-0450	41-FT5-08-0450
20	27-1/2	10-35/64	22-13/64	1/4	1-3/8	25	20	1-1/4	7-7/16	11-FT5-08-0500	41-FT5-08-0500
24	32	12-51/64	26-35/64	1/4	1-3/8	29-1/2	20	1-3/8	8-5/16	11-FT5-08-0600	41-FT5-08-0600



UPVC / CPVC PIPE FITTING VALVE

TS-FLANGE

TS法蘭
ANSI



單位 (unit) : inch

Size	d1	D2	D3	D1	d2	L	T	H	n	e	UPVC code no.	CPVC code no.
1/2	7/8	2-3/8	3-1/2	23/32	1-1/4	1-7/32	19/32	1-7/16	4	5/8	11-FT9-08-0015	41-FT9-08-0015
3/4	1-1/16	2-3/4	3-7/8	27/32	1-3/8	1-17/32	19/32	1-11/16	4	5/8	11-FT9-08-0020	41-FT9-08-0020
1	1-11/32	3-1/8	4-1/4	1-1/32	1-11/16	1-21/32	5/8	1-27/32	4	5/8	11-FT9-08-0025	41-FT9-08-0025
1-1/4	1-11/16	3-1/2	4-5/8	1-3/8	2-1/32	1-31/32	21/32	2-3/16	4	5/8	11-FT9-08-0032	41-FT9-08-0032
1-1/2	1-15/16	3-7/8	5	1-3/4	2-13/32	2-3/8	25/32	2-19/32	4	5/8	11-FT9-08-0040	41-FT9-08-0040
2	2-13/32	4-3/4	6	2-1/16	2-29/32	2-17/32	25/32	2-25/32	4	3/4	11-FT9-08-0050	41-FT9-08-0050
2-1/2	2-29/32	5-1/2	7	2-21/32	3-1/2	2-13/16	25/32	2-23/32	4	3/4	11-FT9-08-0065	41-FT9-08-0065
3	3-17/32	6	7-1/2	3-3/32	4-5/64	2-7/8	13/16	3-5/32	4	3/4	11-FT9-08-0080	41-FT9-08-0080
4	4-17/32	7-1/2	9	3-15/16	5-7/32	3-5/16	29/32	3-19/32	8	3/4	11-FT9-08-0100	41-FT9-08-0100
5	5-19/32	8-1/2	10	4-15/16	6-1/4	3-31/32	31/32	4-13/32	8	7/8	11-FT9-08-0125	41-FT9-08-0125
6	6-21/32	9-1/2	11-23/32	5-29/32	7-5/16	5-3/32	31/32	5-17/32	8	7/8	11-FT9-08-0150	41-FT9-08-0150
8	8-21/32	11-3/4	13-1/2	7-11/16	9-13/32	5-29/32	1-1/8	6-15/32	8	7/8	11-FT9-08-0200	41-FT9-08-0200
10	10-7/8	14-1/4	16	9-23/32	11-1/2	7-1/4	1-3/16	7-13/16	12	1	11-FT9-08-0250	41-FT9-08-0250
12	12-25/32	17	19	9-27/32	13-23/32	7-1/4	1-3/16	7-7/8	12	1	11-FT9-08-0300	41-FT9-08-0300
* 14	14-1/32	18-3/4	21	13-23/32	14-31/32	9-1/16	1-1/4	9-21/32	12	1-1/8	11-FT9-08-0350	41-FT9-08-0350
* 16	16-3/4	21-1/4	23-1/2	15-3/4	16-31/32	9-15/32	1-1/4	10-1/32	16	1-1/8	11-FT9-08-0400	41-FT9-08-0400
* 18	18-1/32	22-3/4	25	17-17/32	18-31/32	10-1/32	1-1/4	10-5/8	16	1-1/4	11-FT9-08-0450	41-FT9-08-0450
* 20	20-1/32	25	27-1/2	19-11/16	20-31/32	12	1-3/8	12-19/32	20	1-1/4	11-FT9-08-0500	41-FT9-08-0500
* 24	24-3/32	29-1/2	32	23-5/8	25-1/4	13-31/32	1-3/8	14-9/16	20	1-3/8	11-FT9-08-0600	41-FT9-08-0600

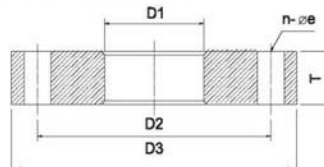
* 手工製品 (Fabricated)



UPVC / CPVC PIPE FITTING VALVE

WELDING-FLANGE

焊接法蘭
ANSI



單位 (unit) : inch

Non Size	D1	D2	D3	T	e	n	UPVC code no.	CPVC code no.
1/2	27/32	2-3/8	3-1/2	5/8	5/8	4	11-FT8-08-0015	41-FT8-08-0015
3/4	1-1/16	2-3/4	3-7/8	9/16	5/8	4	11-FT8-08-0020	41-FT8-08-0020
1	1-5/16	3-1/8	4-1/4	23/32	5/8	4	11-FT8-08-0025	41-FT8-08-0025
1-1/4	1-21/32	3-1/2	4-5/8	23/32	5/8	4	11-FT8-08-0032	41-FT8-08-0032
1-1/2	1-29/32	3-7/8	5	3/4	5/8	4	11-FT8-08-0040	41-FT8-08-0040
2	2-3/8	4-3/4	5-31/32	3/4	3/4	4	11-FT8-08-0050	41-FT8-08-0050
2-1/2	2-7/8	5-17/32	7	3/4	3/4	4	11-FT8-08-0065	41-FT8-08-0065
3	3-1/2	5-31/32	7-17/32	29/32	3/4	4	11-FT8-08-0080	41-FT8-08-0080
4	4-1/2	7-17/32	9-1/32	29/32	3/4	8	11-FT8-08-0100	41-FT8-08-0100
5	5-9/16	8-1/2	10	29/32	7/8	8	11-FT8-08-0125	41-FT8-08-0125
6	6-5/8	9-1/2	10-31/32	29/32	7/8	8	11-FT8-08-0150	41-FT8-08-0150
8	8-5/8	11-3/4	13-1/2	29/32	7/8	8	11-FT8-08-0200	41-FT8-08-0200
10	10-3/4	14-1/4	15-31/32	27/32	31/32	12	11-FT8-08-0250	41-FT8-08-0250
12	12-3/4	17	19-1/32	27/32	31/32	12	11-FT8-08-0300	41-FT8-08-0300
14	14	18-3/4	20-31/32	1-1/8	1-5/32	12	11-FT8-08-0350	41-FT8-08-0350
16	16	21-9/32	23-1/2	1-1/8	1-5/32	16	11-FT8-08-0400	41-FT8-08-0400
18	18	22-3/4	25	1-1/8	1-9/32	16	11-FT8-08-0450	41-FT8-08-0450
20	20	25	27-17/32	1-1/8	1-9/32	20	11-FT8-08-0500	41-FT8-08-0500
24	24	29-1/2	32	1-1/8	1-3/8	20	11-FT8-08-0600	41-FT8-08-0600



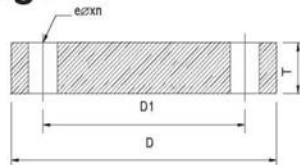
UPVC / CPVC PIPE FITTING VALVE



UPVC / CPVC PIPE FITTING VALVE

Blind Flange

盲法蘭
ANSI



NSF

單位 (unit) : inch

Size	D	D1	T	e	N	UPVC code no.	CPVC code no.
1/2	3-1/2	2-3/8	5/8	5/8	4	11-FT7-08-0015	41-FT7-08-0015
3/4	3-7/8	2-3/4	11/16	5/8	4	11-FT7-08-0020	41-FT7-08-0020
1	4-1/4	3-1/8	11/16	5/8	4	11-FT7-08-0025	41-FT7-08-0025
1-1/4	4-5/8	3-1/2	3/4	5/8	4	11-FT7-08-0032	41-FT7-08-0032
1-1/2	5	3-7/8	3/4	5/8	4	11-FT7-08-0040	41-FT7-08-0040
2	6	4-3/4	7/8	13/16	4	11-FT7-08-0050	41-FT7-08-0050
2-1/2	6-15/16	5-1/2	13/16	13/16	4	11-FT7-08-0065	41-FT7-08-0065
3	7-1/2	6	15/16	13/16	4	11-FT7-08-0080	41-FT7-08-0080
4	9	7-1/2	15/16	13/16	8	11-FT7-08-0100	41-FT7-08-0100
5	10	8-1/2	1	7/8	8	11-FT7-08-0125	41-FT7-08-0125
6	11-1/8	9-1/2	1	7/8	8	11-FT7-08-0150	41-FT7-08-0150
8	13-9/16	11-3/4	1-1/8	7/8	8	11-FT7-08-0200	41-FT7-08-0200
10	16	14-1/4	1-3/16	15/16	12	11-FT7-08-0250	41-FT7-08-0250
12	19	17	1-5/16	15/16	12	11-FT7-08-0300	41-FT7-08-0300
14	20-15/16	18-3/4	1-5/16	1-1/8	12	11-FT7-08-0350	41-FT7-08-0350
16	23-1/2	21-1/4	1-7/16	1-1/8	16	11-FT7-08-0400	41-FT7-08-0400
18	25	22-3/4	1-1/8	1-1/4	16	11-FT7-08-0450	41-FT7-08-0450
20	27-1/2	25	1-1/8	1-1/4	20	11-FT7-08-0500	41-FT7-08-0500
24	32-1/16	29-1/2	1-1/8	1-1/4	20	11-FT7-08-0600	41-FT7-08-0600

EXPANSION JOINT REPAIR COUPLINGS (伸縮接頭牙口式)



牙口式 (THREAD)

Linear expansion and contraction from temperature fluctuations can be a major problem in thermoplastic piping system.

Expansion joints consist of two telescoping tubes with internal o-ring seals. For proper operation, the outer tube should be firmly anchored to allow free movement of the inner tube or piston. Support and thrust block the system to direct movement squarely into the expansion joint. Alignment is critical, axial

guides should be installed to ensure straight movement into expansion joint.

Protect the cylinder shaft from scratches, damage and debris to prevent leaks.

General rule: For UPVC systems, allow 3/8" expansion for every 10F change in temperature per 100 feet of pipe. For CPVC systems, allow 1/2" expansion for every 10F change in temperature per 100 feet of pipe.

單位 (unit) : mm

Size	JIS	ANSI	DIN	6" TRAVEL			12" TRAVEL		
	R	R	R	A	L	B	A	L	B
1/2"	PT 1/2"	NPT 1/2"	R 1/2"	76	364	320	152	593	549
3/4"	PT 3/4"	NPT 3/4"	R 3/4"	76	376	325	152	605	554
1"	PT 1"	NPT 1"	R 1"	76	388	330	152	617	559
1-1/4"	PT 1-1/4"	NPT 1-1/4"	R 1-1/4"	76	399	335	152	628	564
1-1/2"	PT 1-1/2"	NPT 1-1/2"	R 1-1/2"	76	408	338	152	637	567
2"	PT 2"	NPT 2"	R 2"	76	436	360	152	665	589
2-1/2"	PT 2-1/2"	NPT 2-1/2"	R 2-1/2"	78	460	370	152	689	599
3"	PT 3"	NPT 3"	R 3"	76	472	370	152	701	599
4"	PT 4"	NPT 4"	R 4"	76	545	445	152	775	675

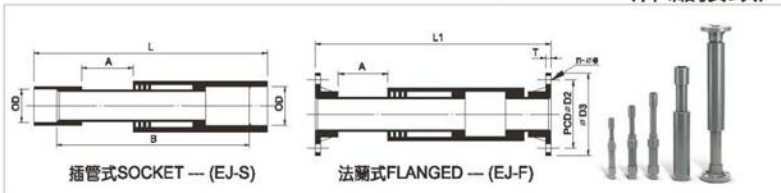
THREAD CODE NUMBER

Size	JIS		ANSI		DIN	
	6" TRAVEL	12" TRAVEL	6" TRAVEL	12" TRAVEL	6" TRAVEL	12" TRAVEL
1/2"	11-EJ3-08-015J	11-EJ4-08-015J	11-EJ3-08-015A	11-EJ4-08-015A	11-EJ3-08-015D	11-EJ4-08-015D
3/4"	11-EJ3-08-020J	11-EJ4-08-020J	11-EJ3-08-020A	11-EJ4-08-020A	11-EJ3-08-020D	11-EJ4-08-020D
1"	11-EJ3-08-025J	11-EJ4-08-025J	11-EJ3-08-025A	11-EJ4-08-025A	11-EJ3-08-025D	11-EJ4-08-025D
1-1/4"	11-EJ3-08-032J	11-EJ4-08-032J	11-EJ3-08-032A	11-EJ4-08-032A	11-EJ3-08-032D	11-EJ4-08-032D
1-1/2"	11-EJ3-08-040J	11-EJ4-08-040J	11-EJ3-08-040A	11-EJ4-08-040A	11-EJ3-08-040D	11-EJ4-08-040D
2"	11-EJ3-08-050J	11-EJ4-08-050J	11-EJ3-08-050A	11-EJ4-08-050A	11-EJ3-08-050D	11-EJ4-08-050D
2-1/2"	11-EJ3-08-065J	11-EJ4-08-065J	11-EJ3-08-065A	11-EJ4-08-065A	11-EJ3-08-065D	11-EJ4-08-065D
3"	11-EJ3-08-080J	11-EJ4-08-080J	11-EJ3-08-080A	11-EJ4-08-080A	11-EJ3-08-080D	11-EJ4-08-080D
4"	11-EJ3-08-100J	11-EJ4-08-100J	11-EJ3-08-100A	11-EJ4-08-100A	11-EJ3-08-100D	11-EJ4-08-100D



UPVC / CPVC PIPE FITTING VALVE

EXPANSION JOINT REPAIR COUPLINGS (伸縮接頭)



JIS

單位 (unit) : mm

Size	OD	6" TRAVEL				12" TRAVEL				D2	D3	T	e	n
		A	EJ-S		EJ-F	A	EJ-S		EJ-F					
1/2"	22.20	76	360	317	397	152	579	535	616	70	95.40	15	15	4
3/4"	26.55	76	380	330	423	152	602	552	645	75	99.30	15	15	4
1"	32.55	76	396	340	443	152	624	568	671	90	124.6	15	19	4
1-1/4"	38.65	76	404	342	446	152	632	570	674	100	134.8	16	19	4
1-1/2"	48.90	76	424	354	480	152	652	582	708	105	139.8	17	19	4
2"	60.80	76	447	371	510	152	675	599	738	120	156.0	20	19	4
2-1/2"	76.80	76	482	392	542	152	710	620	770	140	173.8	20	19	4
3"	89.60	76	492	396	553	152	720	624	781	150	184.5	20	19	8
4"	114.70	76	537	422	627	152	765	650	855	175	210.0	23	19	8
5"	140.85	76	579	445	691	152	807	673	919	210	250.0	24	23	8
6"	166.00	76	640	488	781	152	868	716	1009	240	280.0	27	23	8
8"	216.00	76	733	529	895	152	--	--	1123	290	330.0	30	23	12
10"	268.00	76	856	606	1056	152	--	--	1284	355	400.0	33	25	12
12"	--	76	--	--	1073	152	--	--	1301	400	445.0	35	25	16

ANSI

單位 (unit) : mm

Size	OD	6" TRAVEL				12" TRAVEL				D2	D3	T	e	n
		A	EJ-S		EJ-F	A	EJ-S		EJ-F					
1/2"	21.64	76	360	317	397	152	579	535	616	60	89	13	16	4
3/4"	26.99	76	380	330	423	152	602	552	645	70	98	14	16	4
1"	33.78	76	396	340	443	152	624	568	671	79	108	15	16	4
1-1/4"	42.55	76	404	342	446	152	632	570	674	89	117	16	16	4
1-1/2"	48.72	76	424	354	480	152	652	582	708	98	127	16	16	4
2"	60.78	76	447	371	510	152	675	599	738	121	152	19	19	4
2-1/2"	73.56	76	482	392	542	152	710	620	770	140	178	25	19	4
3"	89.51	76	492	396	553	152	720	624	781	152	191	25	19	4
4"	114.99	76	537	422	627	152	765	650	855	190.5	228.6	25	19	8
5"	142.06	76	579	445	691	152	807	673	919	216.0	254.0	26	22.2	8
6"	169.09	76	640	488	781	152	868	716	1009	241.3	279.4	32	22.2	8
8"	219.07	76	733	529	895	152	--	--	1123	298.0	343.0	30	22.0	8
10"	273.81	76	856	606	1056	152	--	--	1284	362.0	406.0	33	25.0	12
12"	--	76	--	--	1073	152	--	--	1301	431.8	482.6	35	25.0	12

DIN

單位 (unit) : mm

Size	OD	6" TRAVEL				12" TRAVEL				D2	D3	T	e	n
		A	EJ-S		EJ-F	A	EJ-S		EJ-F					
1/2"	20	76	360	317	397	152	579	535	616	65	95	12.8	14	4
3/4"	25	76	380	330	423	152	602	552	645	75	105	12.8	14	4
1"	32	76	396	340	443	152	624	568	671	85	115	14.8	14	4
1-1/4"	40	76	404	342	446	152	632	570	674	100	140	15.8	18	4
1-1/2"	50	76	424	354	480	152	652	582	708	110	150	16.8	18	4
2"	63	76	447	371	510	152	675	599	738	125	165	18.8	18	4
2-1/2"	75	76	482	392	542	152	710	620	770	145	185	18.8	18	4
3"	90	76	492	396	553	152	720	624	781	160	200	20.8	18	8
4"	110	76	537	422	627	152	765	650	855	180	220	22.8	18	8
5"	140	76	579	445	691	152	807	673	919	210	250	23.0	18	8
6"	160	76	640	488	781	152	868	716	1009	240	289	23.0	23	8
8"	226	76	733	529	895	152	--	--	1123	295	331	23.0	23	8
10"	281	76	856	606	1056	152	--	--	1284	350	418	25.0	23	12
12"	--	76	--	--	1073	152	--	--	1301	400	445	25.0	23	12



UPVC / CPVC PIPE FITTING VALVE

EXPANSION JOINT REPAIR COUPLINGS

(伸縮接頭插管/法蘭產品代號)



SOCKET CODE NUMBER (EJ-S) 插管產品代號

Size	JIS		ANSI		DIN	
	6" TRAVEL	12" TRAVEL	6" TRAVEL	12" TRAVEL	6" TRAVEL	12" TRAVEL
1/2"	11-EJ5-08-015J	11-EJ6-08-015J	11-EJ5-08-015A	11-EJ6-08-015A	11-EJ5-08-015D	11-EJ6-08-015D
3/4"	11-EJ5-08-020J	11-EJ6-08-020J	11-EJ5-08-020A	11-EJ6-08-020A	11-EJ5-08-020D	11-EJ6-08-020D
1"	11-EJ5-08-025J	11-EJ6-08-025J	11-EJ5-08-025A	11-EJ6-08-025A	11-EJ5-08-025D	11-EJ6-08-025D
1-1/4"	11-EJ5-08-032J	11-EJ6-08-032J	11-EJ5-08-032A	11-EJ6-08-032A	11-EJ5-08-032D	11-EJ6-08-032D
1-1/2"	11-EJ5-08-040J	11-EJ6-08-040J	11-EJ5-08-040A	11-EJ6-08-040A	11-EJ5-08-040D	11-EJ6-08-040D
2"	11-EJ5-08-050J	11-EJ6-08-050J	11-EJ5-08-050A	11-EJ6-08-050A	11-EJ5-08-050D	11-EJ6-08-050D
2-1/2"	11-EJ5-08-065J	11-EJ6-08-065J	11-EJ5-08-065A	11-EJ6-08-065A	11-EJ5-08-065D	11-EJ6-08-065D
3"	11-EJ5-08-080J	11-EJ6-08-080J	11-EJ5-08-080A	11-EJ6-08-080A	11-EJ5-08-080D	11-EJ6-08-080D
4"	11-EJ5-08-100J	11-EJ6-08-100J	11-EJ5-08-100A	11-EJ6-08-100A	11-EJ5-08-100D	11-EJ6-08-100D
5"	11-EJ5-08-125J	11-EJ6-08-125J	11-EJ5-08-125A	11-EJ6-08-125A	11-EJ5-08-125D	11-EJ6-08-125D
6"	11-EJ5-08-150J	11-EJ6-08-150J	11-EJ5-08-150A	11-EJ6-08-150A	11-EJ5-08-150D	11-EJ6-08-150D
8"	11-EJ5-08-200J	--	11-EJ5-08-200A	--	11-EJ5-08-200D	--
10"	11-EJ5-08-250J	--	11-EJ5-08-250A	--	11-EJ5-08-250D	--
12"	--	--	--	--	--	--

FLANGED CODE NUMBER (EJ-F) 法蘭產品代號

Size	JIS		ANSI		DIN	
	6" TRAVEL	12" TRAVEL	6" TRAVEL	12" TRAVEL	6" TRAVEL	12" TRAVEL
1/2"	11-EJ7-08-015J	11-EJ8-08-015J	11-EJ7-08-015A	11-EJ8-08-015A	11-EJ7-08-015D	11-EJ8-08-015D
3/4"	11-EJ7-08-020J	11-EJ8-08-020J	11-EJ7-08-020A	11-EJ8-08-020A	11-EJ7-08-020D	11-EJ8-08-020D
1"	11-EJ7-08-025J	11-EJ8-08-025J	11-EJ7-08-025A	11-EJ8-08-025A	11-EJ7-08-025D	11-EJ8-08-025D
1-1/4"	11-EJ7-08-032J	11-EJ8-08-032J	11-EJ7-08-032A	11-EJ8-08-032A	11-EJ7-08-032D	11-EJ8-08-032D
1-1/2"	11-EJ7-08-040J	11-EJ8-08-040J	11-EJ7-08-040A	11-EJ8-08-040A	11-EJ7-08-040D	11-EJ8-08-040D
2"	11-EJ7-08-050J	11-EJ8-08-050J	11-EJ7-08-050A	11-EJ8-08-050A	11-EJ7-08-050D	11-EJ8-08-050D
2-1/2"	11-EJ7-08-065J	11-EJ8-08-065J	11-EJ7-08-065A	11-EJ8-08-065A	11-EJ7-08-065D	11-EJ8-08-065D
3"	11-EJ7-08-080J	11-EJ8-08-080J	11-EJ7-08-080A	11-EJ8-08-080A	11-EJ7-08-080D	11-EJ8-08-080D
4"	11-EJ7-08-100J	11-EJ8-08-100J	11-EJ7-08-100A	11-EJ8-08-100A	11-EJ7-08-100D	11-EJ8-08-100D
5"	11-EJ7-08-125J	11-EJ8-08-125J	11-EJ7-08-125A	11-EJ8-08-125A	11-EJ7-08-125D	11-EJ8-08-125D
6"	11-EJ7-08-150J	11-EJ8-08-150J	11-EJ7-08-150A	11-EJ8-08-150A	11-EJ7-08-150D	11-EJ8-08-150D
8"	11-EJ7-08-200J	11-EJ8-08-200J	11-EJ7-08-200A	11-EJ8-08-200A	11-EJ7-08-200D	11-EJ8-08-200D
10"	11-EJ7-08-250J	11-EJ8-08-250J	11-EJ7-08-250A	11-EJ8-08-250A	11-EJ7-08-250D	11-EJ8-08-250D
12"	11-EJ7-08-300J	11-EJ8-08-300J	11-EJ7-08-300A	11-EJ8-08-300A	11-EJ7-08-300D	11-EJ8-08-300D



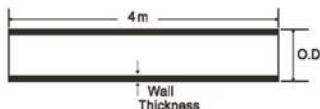
UPVC / CPVC PIPE FITTING VALVE

CPVC CTS PIPE & FITTING (CPVC CTS 管和配件)

PIPE(管材)

單位(unit): inch

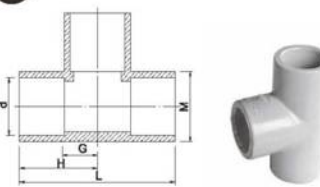
Nominal Pipe Size	Mean Outside Diameter	O.D. Tolerance	Minimum Wall Thickness	code
1/2"	0.625	±0.003	0.068	44-PI-O-08-0015
3/4"	0.875	±0.003	0.080	44-PI-O-08-0020
1"	1.125	±0.003	0.102	44-PI-O-08-0025
1-1/4"	1.375	±0.003	0.125	44-PI-O-08-0032
1-1/2"	1.625	±0.004	0.148	44-PI-O-08-0040
2"	2.125	±0.004	0.193	44-PI-O-08-0050



TEE 正三通

單位(unit): inch

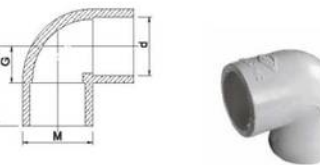
Size	d	G	H	L	M	code
1/2"	0.633	7/16	15/16	1-7/8	13/16	44-TT5-08-0015
3/4"	0.884	17/32	1-1/4	2-1/2	1-3/32	44-TT5-08-0020
1"	1.135	11/16	1-19/32	3-5/32	1-11/32	44-TT5-08-0025
1-1/4"	1.386	13/16	1-29/32	3-25/32	1-21/32	44-TT5-08-0032
1-1/2"	1.840	15/16	2-1/4	4-15/32	1-31/32	44-TT5-08-0040
2"	2.141	1-3/16	2-29/32	5-25/32	2-9/16	44-TT5-08-0050



90° ELL 彎頭

單位(unit): inch

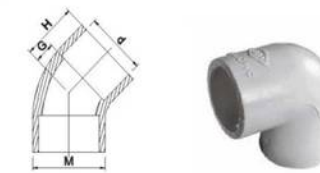
Size	d	G	H	M	code
1/2"	0.633	3/8	15/16	7/8	44-L95-08-0015
3/4"	0.883	9/16	1-1/4	1-1/8	44-L95-08-0020
1"	1.135	11/16	1-9/16	1-3/8	44-L95-08-0025
1-1/4"	1.386	13/16	1-29/32	1-21/32	44-L95-08-0032
1-1/2"	1.840	15/16	2-1/4	1-31/32	44-L95-08-0040
2"	2.141	1-3/16	2-29/32	2-9/16	44-L95-08-0050



45° ELL 彎頭

單位(unit): inch

Size	d	G	H	M	code
1/2"	0.633	3/4	3/16	13/18	44-L48-08-0015
3/4"	0.884	1	5/16	1-1/16	44-L48-08-0020
1"	1.135	1-1/4	11/32	1-11/32	44-L48-08-0025
1-1/4"	1.386	1-1/2	13/32	1-21/32	44-L48-08-0032
1-1/2"	1.840	1-3/4	7/16	1-31/32	44-L48-08-0040
2"	2.141	2-1/4	17/32	2-9/16	44-L48-08-0050



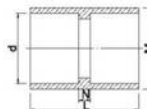
UPVC / CPVC PIPE FITTING VALVE

CPVC CTS PIPE & FITTING

COUPLING 平接頭

單位(unit): inch

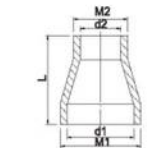
Size	d	L	M	N	code
1/2"	0.633	1-5/32	27/32	3/32	44-CL2-08-0015
3/4"	0.884	1-9/16	1-1/16	1/8	44-CL2-08-0020
1"	1.135	1-15/16	1-3/8	1/8	44-CL2-08-0025
1-1/4"	1.386	2-3/8	1-21/32	3/16	44-CL2-08-0032
1-1/2"	1.840	2-3/4	1-31/32	1/4	44-CL2-08-0040
2"	2.141	3-9/16	2-9/16	1/4	44-CL2-08-0050



REDUCER COUPLING(大小頭)

單位(unit): inch

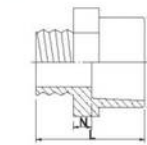
Size	d1	d2	L	M1	M2	code
3/4" * 1/2"	0.884	0.633	1-3/8	1-3/32	27/32	44-RC3-08-020015
1" * 1/2"	1.135	0.633	1-3/4	1-11/32	27/32	44-RC3-08-025015
1" * 3/4"	1.135	0.884	1-3/4	1-11/32	1-3/32	44-RC3-08-025015
1-1/4" * 1/2"	1.386	0.633	2-5/8	1-21/32	27/32	44-RC3-08-032015
1-1/4" * 3/4"	1.386	0.884	2-5/8	1-21/32	1-3/32	44-RC3-08-032020
1-1/4" * 1"	1.386	1.135	2-5/8	1-21/32	1-11/32	44-RC3-08-032025



MALE ADAPTER(外牙開接頭)

單位(unit): inch

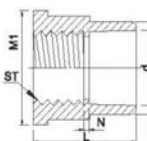
Size	d	L	M1	M	code
1/2"	0.633	1-1/4	7/8	3/16	44-MD3-08-0015
3/4"	0.884	1-19/32	1-3/32	7/32	44-MD3-08-0020
1"	1.135	1-7/8	1-11/32	7/32	44-MD3-08-0025
1-1/4"	1.386	2-9/32	1-21/32	5/16	44-MD3-08-0032
1-1/2"	1.840	2-15/32	1-31/32	5/16	44-MD3-08-0040
2"	2.141	2-29/32	2-9/16	5/16	44-MD3-08-0050



FEMALE ADAPTER(內牙開接頭)

單位(unit): inch

Size	d	L	M	M1	N	code
1/2"	0.633	1-11/32	27/32	1-3/16	7/32	44-FD3-08-0015
3/4"	0.884	1-9/16	1-3/32	1-3/8	7/32	44-FD3-08-0020
1"	1.135	1-15/16	1-3/8	1-11/16	5/16	44-FD3-08-0025

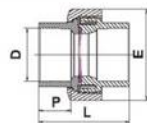




UPVC / CPVC PIPE FITTING VALVE

UNION

油任接頭
(SocxSoc)
ANSI

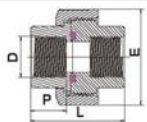


單位 (unit) : inch

Size	E	D	L		P	UPVC code		CPVC code	
			S	TS		S	TS	S	TS
1/2	1-27/32	27/32	2-3/16	2-1/4	7/8	11-EU3-08-0010	11-EU4-08-0010	41-EU3-08-0010	41-EU4-08-0010
3/4	2-13/32	1-1/16	2-11/16	2-17/32	1	11-EU3-08-0020	11-EU4-08-0020	41-EU3-08-0020	41-EU4-08-0020
1	2-3/4	1-5/16	2-31/32	2-27/32	1-1/8	11-EU3-08-0025	11-EU4-08-0025	41-EU3-08-0025	41-EU4-08-0025
1-1/4	3-7/32	1-21/32	3-3/16	3-3/16	1-1/4	11-EU3-08-0032	11-EU4-08-0032	41-EU3-08-0032	41-EU4-08-0032
1-1/2	3-1/2	1-29/32	3-9/16	3-9/16	1-3/8	11-EU3-08-0040	11-EU4-08-0040	41-EU3-08-0040	41-EU4-08-0040
2	3-31/32	2-3/8	4-1/32	4-1/32	1-1/2	11-EU3-08-0050	11-EU4-08-0050	41-EU3-08-0050	41-EU4-08-0050
2-1/2	5-29/32	2-7/8	3-7/16	4-17/32	1-3/4	11-EU3-08-0065	11-EU4-08-0065	41-EU3-08-0065	41-EU4-08-0065
3	7-1/4	3-1/2	4-21/32	5-3/8	1-7/8	11-EU3-08-0080	11-EU4-08-0080	41-EU3-08-0080	41-EU4-08-0080
4	7-27/32	4-1/2	6-5/32	6-5/32	2-1/4	11-EU3-08-0100	11-EU4-08-0100	41-EU3-08-0100	41-EU4-08-0400

UNION

油任接頭
(FiptxFip)
ANSI

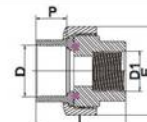


單位 (unit) : inch

Size	E	D	L		P	UPVC code		CPVC code	
			S	TS		S	TS	S	TS
1/2	1-27/32	NPT 1/2	2-3/16	2-1/4	7/8	11-EU5-08-0010	11-EU6-08-0010	41-EU5-08-0010	41-EU6-08-0010
3/4	2-13/32	NPT 3/4	2-11/16	2-17/32	1	11-EU5-08-0020	11-EU6-08-0020	41-EU5-08-0020	41-EU6-08-0020
1	2-3/4	NPT 1	2-31/32	2-27/32	1-1/8	11-EU5-08-0025	11-EU6-08-0025	41-EU5-08-0025	41-EU6-08-0025
1-1/4	3-7/32	NPT 1-1/4	3-3/16	3-3/16	1-1/4	11-EU5-08-0032	11-EU6-08-0032	41-EU5-08-0032	41-EU6-08-0032
1-1/2	3-1/2	NPT 1-1/2	3-9/16	3-9/16	1-3/8	11-EU5-08-0040	11-EU6-08-0040	41-EU5-08-0040	41-EU6-08-0040
2	3-31/32	NPT 2	4-1/32	4-1/32	1-1/2	11-EU5-08-0050	11-EU6-08-0050	41-EU5-08-0050	41-EU6-08-0050
2-1/2	5-29/32	NPT 2-1/2	3-7/16	4-17/32	1-3/4	11-EU5-08-0065	11-EU6-08-0065	41-EU5-08-0065	41-EU6-08-0065
3	7-1/4	NPT 3	4-21/32	5-3/8	1-7/8	11-EU5-08-0080	11-EU6-08-0080	41-EU5-08-0080	41-EU6-08-0080
4	7-27/32	NPT 4	6-5/32	6-5/32	2-1/4	11-EU5-08-0100	11-EU6-08-0100	41-EU5-08-0100	41-EU6-08-0400

UNION

油任接頭
(SocxFipt)
ANSI



單位 (unit) : inch

Size	E	D	D1	L		P	UPVC code		CPVC code	
				S	TS		S	TS	S	TS
1/2	1-27/32	27/32	NPT 1/2	2-3/16	2-1/4	7/8	11-EU7-08-0010	11-EU8-08-0010	41-EU7-08-0010	41-EU8-08-0010
3/4	2-13/32	1-1/16	NPT 3/4	2-11/16	2-17/32	1	11-EU7-08-0020	11-EU8-08-0020	41-EU7-08-0020	41-EU8-08-0020
1	2-3/4	1-5/16	NPT 1	2-31/32	2-27/32	1-1/8	11-EU7-08-0025	11-EU8-08-0025	41-EU7-08-0025	41-EU8-08-0025
1-1/4	3-7/32	1-21/32	NPT 1-1/4	3-3/16	3-3/16	1-1/4	11-EU7-08-0032	11-EU8-08-0032	41-EU7-08-0032	41-EU8-08-0032
1-1/2	3-1/2	1-29/32	NPT 1-1/2	3-9/16	3-9/16	1-3/8	11-EU7-08-0040	11-EU8-08-0040	41-EU7-08-0040	41-EU8-08-0040
2	3-31/32	2-3/8	NPT 2	4-1/32	4-1/32	1-1/2	11-EU7-08-0050	11-EU8-08-0050	41-EU7-08-0050	41-EU8-08-0050
2-1/2	5-29/32	2-7/8	NPT 2-1/2	3-7/16	4-17/32	1-3/4	11-EU7-08-0065	11-EU8-08-0065	41-EU7-08-0065	41-EU8-08-0065
3	7-1/4	3-1/2	NPT 3	4-21/32	5-3/8	1-7/8	11-EU7-08-0080	11-EU8-08-0080	41-EU7-08-0080	41-EU8-08-0080
4	7-27/32	4-1/2	NPT 4	6-5/32	6-5/32	2-1/4	11-EU7-08-0100	11-EU8-08-0100	41-EU7-08-0100	41-EU8-08-0400



UPVC / CPVC PIPE FITTING VALVE

CPVC-CTS COMPACT BALL VALVE

緊密型球閥 (熱水銅管用)

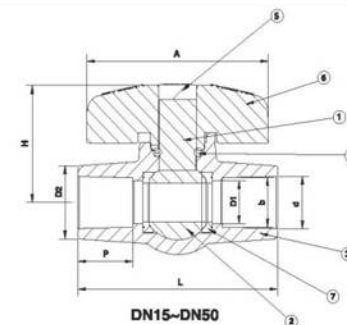
CTS100 SOCKET

Size: 1/2" - 2" (Copper Tube Size)



MATERIALS OF CONSTRUCTION

Item	Parts	Pcs	Materials
1	Stem	1	CPVC
2	Ball	1	CPVC
3	Body	1	CPVC
4	Stem O'ring	2	EPDM
5	Cap	2	ABS
6	Handle	1	ABS
7	Seat	2	PTFE



DIMENSIONS TABLE

Standards Nom, Size DN-Inch	DIMENSIONS								Unit: inch
	A	H	L	d	b	P	D1	D2	
15(1/2")	2.350	1.327	2.701	0.633	0.619	0.709	0.476	0.887	
20(3/4")	2.744	1.791	3.120	0.894	0.780	0.896	0.712	1.205	
25(1")	3.004	2.185	3.551	1.135	1.121	1.014	0.768	1.5	
32(1 1/4")	3.524	2.402	4.024	1.386	1.372	1.1	0.949	1.732	
40(1 1/2")	3.524	2.539	4.598	1.640	1.622	1.3	1.240	2.118	
50(2")	4.378	2.894	5.110	2.141	2.123	1.7	1.496	2.559	



UPVC / CPVC PIPE FITTING VALVE



UPVC / CPVC PIPE FITTING VALVE

TRUE UNION(DOUBLE UNION)BALL VALVE

雙油任球閥

CD100 SOCKET/ CD200 THREAD/ CD300 FSANGED

Size: 1/2" - 4"

本產品榮獲 NSF 14/NSF 61 認證合格

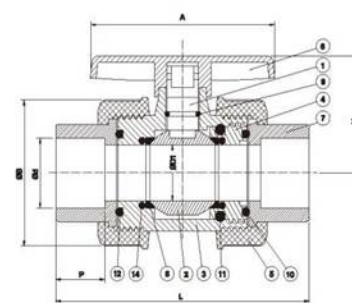


MATERIALS OF CONSTRUCTION

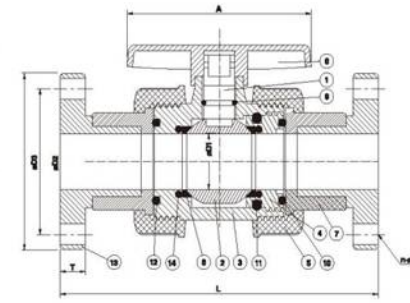
Item	Parts	Pcs	Materials	Item	Parts	Pcs	Materials
1	STEM	1	UPVC,PP,CPVC,PVDF	8	SEAT	2	PTFE
2	BALL	1	UPVC,PP,CPVC,PVDF	9	STEM O-RING	(1).DN15-50 (2).DN80-100	EPDM,VITON
3	BODY	1	UPVC,PP,CPVC,PVDF	10	SEAT CARRIER O-RING	1	EPDM,VITON
4	SEAT CARRIER	1	UPVC,PP,CPVC,PVDF	11	BODY O-RING	1	EPDM,VITON
5	UNION NUT	2	UPVC,PP,CPVC,PVDF	12	SOLID END O-RING	1	EPDM,VITON
6	HANDLE	1	ABS	13	FLANGE	2	UPVC,PP,CPVC,PVDF
7	END CONNECTOR	2	UPVC,PP,CPVC,PVDF				

DIMENSIONS TABLE

JIS														Unit:mm		
Nom Size DN-Inch	D1	D2	D3	d		øe	n	P	L			A	T	H	Test Press kgf/cm²	
				Socket	Thread				Socket	Thread	Flange					
15(1/2")	15	70	95	22	PT1/2	15	4	22.2	115	109	150	82	15	47	46	15
20(3/4")	20	75	100	26	PT3/4	15	4	25.4	131	131	169	101	15	64	61	15
25(1")	25	90	125	32	PT1	19	4	28.6	147	143	190	111	17	67	67	15
32(1-1/4")	38	100	135	38	PT1-1/4	19	4	31.8	186	186	210	110	17	83	96	15
40(1-1/2")	40	105	140	48	PT1-1/2	19	4	34.9	186	186	233	121	18	83	96	15
50(2")	50	120	165	60	PT2	19	4	38.1	197	197	247	160	21	102	113	15
65(2-1/2")	60	140	175	76	PT2-1/2	19	4	44.5	230	230	277	190	20	140	150	10
80(3")	78	150	185	89	PT3	19	8	47.5	272	272	330	230	23	185	184	10
100(4")	96	175	210	114	PT4	19	8	57.2	326	362	383	274	23.5	172	226	10



SOCKET & THREAD TYPE



FLANGE TYPE

DIMENSIONS TABLE

ANSI													Unit:inch			
Nom Size DN-Inch	D1	D2	D3	d		øe	n	P	L			A	T	B	Test Press lb/in ²	
				Socket	Thread				Socket	Thread	Flange					
15(1/2")	0.591	2.375	3.500	0.840	NPT1/2	0.625	4	0.875	4.527	4.291	5.9	3.228	0.590	1.850	1.811	222
20(3/4")	0.78	2.750	3.875	1.050	NPT3/4	0.625	4	1.000	5.157	5.157	6.65	3.976	0.590	2.250	2.402	222
25(1")	0.984	3.125	4.250	1.315	NPT1	0.625	4	1.125	5.787	5.630	7.48	4.370	0.669	2.636	2.638	222
32(1-1/4")	1.25	3.500	4.825	1.660	NPT1-1/4	0.625	4	1.250	7.320	7.320	8.26	4.961	0.669	3.268	3.760	222
40(1-1/2")	1.57	3.875	5.000	1.900	NPT1-1/2	0.625	4	1.375	7.320	7.320	9.17	4.961	0.700	3.268	3.780	222
50(2")	1.969	4.750	6.000	2.375	NPT2	0.750	4	1.500	7.756	7.756	9.27	5.984	0.820	4.016	4.448	222
65(2-1/2")	2.36	5.500	7.000	2.875	NPT2-1/2	0.750	4	1.750	9.05	9.05	10.9	7.480	0.787	5.512	5.905	148
80(3")	3.071	6.000	7.500	3.500	NPT3	0.750	8	1.875	10.7	10.7	12.99	9.056	0.900	6.496	7.244	148
100(4")	3.77	7.500	9.000	4.500	NPT4	0.750	8	2.250	12.83	14.252	15.07	10.787	0.920	6.772	8.890	148

DIN														Unit:mm		
Nom Size DN-Inch	D1	D2	D3	d		øe	n	P	L			A	T	H	B	Test Press kgf/cm ²
				Socket	Thread				Socket	Thread	Flange					
15(1/2")	15	65	95	20	R1/2	14	4	16.0	115	109	150	82	15	47	46	15
20(3/4")	20	75	105	25	R3/4	14	4	18.5	121	131	169	101	15	64	61	15
25(1")	25	85	115	32	R1	14	4	22.0	147	143	190	110	17	67	67	15
32(1-1/4")	38	100	140	40	R1-1/4	18	4	26.0	186	186	210	126	17	83	93	15
40(1-1/2")	40	110	150	50	R1-1/2	18	4	31.0	186	186	233	126	18	83	93	15
50(2")	50	125	165	63	RT2	18	4	37.5	197	197	247	152	21	102	113	15
65(2-1/2")	60	145	185	75	R2-1/2	18	4	43.5	230	230	277	190	20	140	150	10
80(3")	78	160	200	90	R3	18	8	51.0	272	272	330	230	23	185	184	10
100(4")	96	180	220	110	R4	18	8	61.0	328	362	383	274	23.5	172	226	10

※本尺寸表以UPVC材質為基準 本表數值僅以UPVC、PVDF材質為基準 PP材質數值為本表數值的70%

The dimension table is calculated based on UPVC material.

※ The value of test pressure is calculated based on UPVC/PVDF materials.

The value of test pressure for PP material is 70% based on this table.



UPVC / CPVC PIPE FITTING VALVE



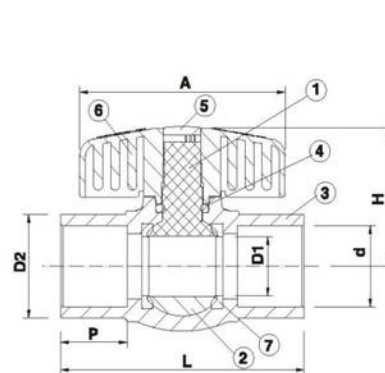
UPVC / CPVC PIPE FITTING VALVE

COMPACT BALL VALVE

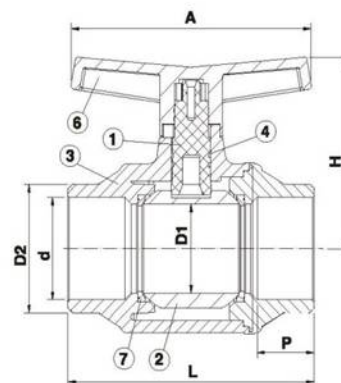
緊密型球閥

CC100 SOCKET/ CC200 THREAD

Size: DN8~DN150



DN15~DN50



DN65~DN150

Compact Ball Valves Torque Value

SIZE	Torque Value(kgf/cm)				
	EPDM-SEAT		PTFE-SEAT		
	OPEN	CLOSE	OPEN	CLOSE	
1/2"	12-22	12-22	10-20	20-30	
3/4"	20-30	30-40	20-30	25-35	
1"	26-36	43-53	30-40	30-40	
1-1/4"	44-59	44-59	50-65	70-85	
1-1/2"	50-65	60-75	47-62	60-75	
2"	60-70	100-120	60-80	120-140	
2-1/2"	80-100	70-90	-	-	
3"	140-160	130-150	-	-	
4"	160-180	150-170	-	-	

1 kgf/cm = 0.98 N.m

MATERIALS OF CONSTRUCTION

Item	Parts	Pcs	Materials	Item	Parts	Pcs	Materials
1	Stem	1	UPVC, CPVC	5	Cap	2	ABS
2	Ball	1	UPVC, CPVC	6	Handle	1	ABS
3	Body	1	UPVC, CPVC	7	Seat	2	EPDM, PTFE
4	Stem O'ring	1	EPDM				

DIMENSIONS TABLE

Standards Nom. Size DN-Inch	JIS Unit:mm										ANSI Unit:inch										DIN Unit:mm									
	d		P	L	D2	H	A	Test Press. (kgf/cm²)	D1	Socket	Thread	d		P	L	D2	H	A	Test Press. (kgf/cm²)	D1	Socket	Thread	d		P	L	D2	H	A	Test Press. (kgf/cm²)
15-1/2"	15	22	PT1/2	22.2	79	29	47	70	15	0.591	0.840	NPT1/2	0.875	3.110	1.141	1.850	2.756	222	15	20	R1/2	18.0	79	29	47	70	15			
20-3/4"	20	26	PT3/4	25.4	90.5	36.5	57	77	15	0.787	1.050	NPT3/4	1.000	3.562	1.427	2.244	3.031	222	20	25	R3/4	18.5	90.5	36.5	57	77	15			
25-1"	25	32	PT1	26.8	106.5	43	61	89	15	0.984	1.315	NPT1	1.125	4.173	1.627	2.402	3.504	222	25	32	R1	22.0	106.5	43	61	89	15			
32-1-1/4"	32	38	PT1-1/4	31.8	123	53	66	89	15	1.260	1.660	NPT1-1/4	1.250	4.842	2.066	2.598	3.504	222	32	40	R1-1/4	26.0	123	53	66	89	15			
40-1-1/2"	39	48	PR1-1/2	34.9	129	61	74	111	15	1.535	1.900	NPT1-1/2	1.375	5.098	2.401	2.913	4.370	222	38	50	R1-1/2	31.0	129	61	74	111	15			
50-2"	50	60	PT2	38.1	150.5	73	80	139	15	1.969	2.375	NPT2	1.500	5.925	2.674	3.150	5.472	222	60	63	R2	37.5	150.5	73	80	139	15			
65-2-1/2"	65	76	PT2-1/2	44.5	182	93.5	129	172	15	2.559	2.875	NPT2-1/2	1.750	7.165	3.681	5.078	6.772	222	65	75	R2-1/2	43.5	182	93.5	129	172	15			
80-3"	75	89	PT3	47.8	187	112	130	172	10	2.952	3.500	NPT3	1.875	7.362	4.409	5.116	6.772	148	75	90	R3	51.0	187	112	130	172	10			
100-4"	90	108	PT4	50.8	215	127	146	191	10	3.541	4.125	NPT4	2.000	8.064	4.854	5.912	7.874	148	90	108	R4	61.0	215	127	146	191	10			
125-5"	125	150	PT5	60.6	254	159	174	235	7	3.897	5.583	NPT5	2.375	9.500	5.625	6.875	9.215	100	125	150	R5	70	254	159	174	235	7			
150-6"	150	180	PT6	76.2	305	190.5	215	287	7	5.118	6.647	NPT6	2.875	11.125	6.875	8.125	10.625	100	150	180	R6	80	305	190.5	215	287	7			



UPVC / CPVC PIPE FITTING VALVE



UPVC / CPVC PIPE FITTING VALVE

TRUE UNION DIAPHRAGM VALVE

油任式隔膜閥(插管式、牙口式)

DF100 SOCKET / DF200 THREAD



TORQUE VALUE(扭力值)

SIZE	Kg/cm ²	N.m
1/2~3/4"	80	7.85
1"	80	7.85
1-1/2"	100	9.81
2"	100	9.81

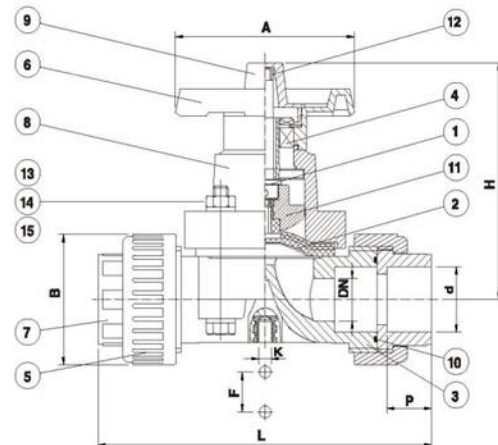
1Kg/cm²=0.981N.m

CV VALUE

CV值 [GMP/(1bf/in²)^{1/2}]

OPENING: 100%

尺寸	CV值
1/2"	3.27
3/4"	5.29
1"	8.87
1-1/2"	31.09
2"	43.15



DN15~DN50

MATERIALS OF CONSTRUCTION

Item	Parts	Pcs	Materials	Item	Parts	Pcs	Materials
1	Shaft	1	BRASS	9	Gauge Cover	1	PC
2	Diaphragm	1	EPDM, TEFLON	10	O'ring	2	EPDM, VITON
3	Body	1	UPVC, PP, CPVC, PVDF	11	Compressor	1	15A-25A PVDF 32A-50A PPG
4	Sleeve	1	BRASS	12	Indicator	1	PE
5	Union Nut	2	UPVC, PP, CPVC, PVDF	13	Bolt	4	SUS304
6	Handle	1	ABS	14	Nut	4	SUS304
7	End Connector	2	UPVC, PP, CPVC, PVDF	15	Spring Washer	8	SUS304
8	Bonnet	1	UPVC, PP, CPVC, PVDF				

DIMENSIONS TABLE

Standards Nom. Size	JIS												ANSI												DIN											
	Unit: mm												Unit: inch												Unit: mm											
	Test Press. (kgf/cm ²)												Test Press. (psi)												Test Press. (kgf/cm ²)											
d		P	B	L	H	A	F	K	d		P	B	L	H	A	F	K	d		P	B	L	H	A	F	K	d		P	B	L	H	A	F	K	
Socket	Thread								Flare dia.	Rubber Dia.	Socket	Thread						Flare dia.	Rubber Dia.	Socket	Thread						Flare dia.	Rubber dia.								
15-1/2"	22	PT1/2	22.2	54	166	104	81	25	M8	7	10	0.84	NPT1/2	0.875	2.126	6.53	4.094	3.189	0.984	M8	104	148	20	R1/2	54	54	166	104	81	25	M8	7	10			
20-3/4"	26	PT3/4	25.4	54	166	104	81	25	M8	7	10	1.05	NPT3/4	1.000	2.126	6.53	4.094	3.189	0.984	M8	104	148	25	R1/4	54	54	166	104	81	25	M8	7	10			
25-1"	32	PT1	28.6	63	183	116	91	25	M8	7	10	1.315	NPT1	1.125	2.480	7.2	4.567	3.583	0.984	M8	104	148	32	R1	63	63	183	116	91	25	M8	7	10			
32-1 1/4"	38	PT1 1/4	31.8	89	238	142	117	45	M8	7	10	1.66	NPT1-1/4	1.250	3.5	9.37	5.591	4.606	1.772	M8	104	148	40	R1-1/4	89	89	238	142	117	45	M8	7	10			
40-1 1/2"	48	PT1 1/2	34.9	89	238	142	117	45	M8	7	10	1.90	NPT1-1/2	1.35	3.5	9.37	5.591	4.606	1.772	M8	104	148	50	R1-1/2	89	89	238	142	117	45	M8	7	10			
50-2"	60	PT2	38.1	101	273	176	150	45	M8	7	10	2.375	NPT2	1.500	3.97	10.74	6.929	5.906	1.772	M8	104	148	63	R2	101	101	273	176	150	45	M8	7	10			

※Standard dimensions based on UPVC material



UPVC / CPVC PIPE FITTING VALVE



UPVC / CPVC PIPE FITTING VALVE

DIAPHRAGM VALVE / Flanged type

隔膜凡而(法蘭式)

DV300

Size: DN15~DN250



MATERIALS OF CONSTRUCTION

No.	Parts	Pos.	Materials	No.	Parts	Pos.	Materials
1	Body	1	UPVC, PP, CPVC, PPG, PVDF	11	Grease Nipple	1	SUS
2	Bonnet	1	PPG, UPVC, PP, CPVC, PVDF	12	Stud Bolt & Nut	4	15A-25A SUS304
3	Compressor	1	15A-25A PVDF 40A-250A PC20	13	Inserted Nut	8	40A-60A SUS304
4	Hand Wheel	1	PP, ABS	14	Bolt Nut & Washer	12	60A-125A SUS304
5	Sleeve	1	15A-50A BSBM 60A-250A PC25	15	thrust Bearing	16	150A SUS304
6	Stem	1	15A-50A BSBM 60A-250A SS41	16	Stopper	20	250A SUS304
7	Diaphragm	1	EPDM, HYPALON, TEFLON	17	Set Nut	1	Standardized 80A-250A USED ONLY
8	Cap	1	15A-25A BSBM 40A-250A UPVC	18	Gauge Cover	1	SS41 BSBM SUS304
9	Compressor Pin	1	SUS-304	19	Sheet Ring	1	PC
10	Name Plate	1	UPVC	20	Washer	1	EPDM

Note: 1. SUS 304 Stainless Steel A181 304 2. SS 41 Rolled steel for General Structure 3. BSBM Free Cutting Brass Bar

4. FC 20 Gray Cast Iron 5. SUS Steel for Spring ASTM A-325-68

※ 規格 3、5、6、12、14 以外の材質は SUS-304 又は SUS-316 規格に準拠し、構造設計。

※ PVDF 隔膜式は BONNET 部分に適用可能。如法設計 PVDF 隔膜式規格、構造設計。

The standard material to bonnet: PPG.

Optional PVDF bonnet material for PVDF diaphragm valve.

Optional materials on request for part no. 4, 5, 6, 12, 14: SUS 304 or SUS 316.

EPDM and TEFLON are trademarks of E.I. Du Pont

DIMENSIONS TABLE

JIS											Unit: mm		PRESSURE Test for Assembly (at 20°C)									
Nom. Size mm(inch)	D1	D2	D3	e	n No. of holes	D4	D5	LIR ℓ	L	T	H	I	Test Pressure Unit: kgf/cm ²									
													Rubber Diaphragm					Teflon Diaphragm				
													UPVC	PP	PPG	CPVC	PVDF	UPVC	PP	PPG	CPVC	PVDF
15(1/2")	16	70	95	15	4	90x33	94	13	110	13	101	140	10	10	10	10	10	7	7	10	7	7
20(3/4")	20	75	100	15	4	74x33	94	13	120	15	106	152	10	10	10	10	10	7	7	10	7	7
25(1")	25	90	125	18	4	80x36	94	14	130	17	113	158	10	10	10	10	10	7	7	10	7	7
40(1 1/2")	41	105	140	18	4	126	147	24	160	17	133	193	10	10	10	10	10	7	7	10	7	7
50(2")	52	120	155	18	4	148	147	28	210	17	145	210	10	10	10	10	10	7	7	10	7	7
65(2 1/2")	66	140	175	18	4	190	202	32	250	22	197	275	10	10	10	10	10	7	7	10	7	7
80(3")	78	150	185	18	8	215	202	34	280	20	218	293	10	10	10	10	10	6	5	6	6	6
100(4")	100	175	210	18	8	255	241	54	340	25	261	370	10	10	10	10	10	6	5	6	6	6
125(5")	125	210	250	23	8	320	274	72	410	24	308	412	7	7	7	7	7	5	4	4	5	5
150(6")	148	240	280	23	8	385	395	72	480	25	334	471	7	7	7	7	7	5	4	4	5	5
200(8")	198	290	330	23	12	430	395	96	570	30	419	625	4	4	4	4	4	3	3	3	3	3
250(10")	248	355	400	25	12	540	555	132	680	31	510	750	4	3	4	4	4	3	3	3	3	3

CV VALUE

CV値 [GMP/(1bf/n²)^{1/2}]

Full Open: 100%

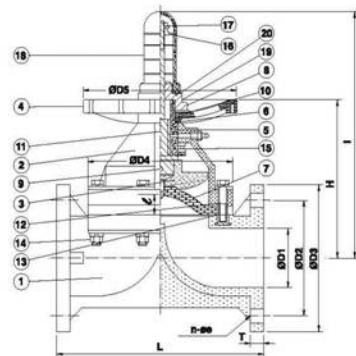
尺寸	CV値
1/2"	3.27
3/4"	5.29
1"	8.87
1-1/2"	31.09
2"	43.15
2-1/2"	90.88
3"	116.79
4"	186.78
6"	345.26
8"	702
10"	-

BOLTS TORQUE VALUE

SIZE Kg/cm² N.m

SIZE	Kg/cm ²	N.m
1/2"	90	8.83
3/4"	110	10.79
1"	110	10.79
1-1/2"	150	14.72
2"	220	21.58
2-1/2"	220	21.58
3"	280	27.47
4"	280	27.47
6"	280	27.47
8"	280	27.47
10"	280	27.47

1Kg/cm²=0.081N/m



DIMENSIONS TABLE

ANSI											Unit: Inch		PRESSURE Test for Assembly (at 20°C)									
Nom. Size mm(inch)	D1	D2	D3	e	n No. of holes	D4	D5	LIR ℓ	L	T	H	I	Test Pressure Unit: psi									
													Rubber Diaphragm					Teflon Diaphragm				
													UPVC	PP	PPG	CPVC	PVDF	UPVC	PP	PPG	CPVC	PVDF
15(1/2")	0.63	2.38	3.50	0.63	4	2.32x2.09	3.70	0.51	4.25	0.51	3.98	5.51	150	150	150	150	150	105	105	150	105	105
20(3/4")	0.78	2.78	3.86	0.83	4	2.80x2.48	3.70	0.51	5.90	0.59	4.17	5.98	150	150	150	150	150	105	105	150	105	105
25(1")	0.98	3.13	4.25	0.83	4	3.15x2.80	3.70	0.55	5.90	0.87	4.45	6.22	150	150	150	150	150	105	105	150	105	105
40(1 1/2")	1.61	3.88	5.00	0.63	4	4.96	5.79	0.94	6.85	0.67	5.24	7.60	150	150	150	150	150	105	105	150	105	105
50(2")	2.05	4.74	5.98	0.75	4	5.83	5.79	1.10	7.98	0.87	5.71	8.27	150	150	150	150	150	105	105	150	105	105
65(2 1/2")	2.68	5.49	7.01	0.75	4	7.48	7.95	1.28	9.85	0.79	7.78	10.87	150	150	150	150	150	105	105	150	105	105
80(3")	3.07	6.00	7.52	0.75	4	8.46	7.95	1.34	10.40	0.79	8.50	11.54	150	150	150	150	150	90	75	90	90	90
100(4")	3.94	7.50	9.02	0.75	8	10.04	9.49	2.13	12.95	0.82	10.28	14.57	150	150	150	150	150	90	75	90	90	90
125(5")	4.92	8.50	10.00	0.87	8	12.60	10.79	2.83	16.14	0.94	12.13	16.22	105	105	105	105	105	75	60	60	75	75
150(6")	5.83	9.51	10.98	0.87	8	15.16	15.55	2.83	18.90	0.98	13.15	18.54	105	105	105	105	105	75	60	60	75	75
200(8")	7.80	11.75	13.50	0.87	8	18.93	15.55	3.78	22.44	1.18	16.40	24.81	60	60	60	60	60	45	45	45	45	45
250(10")	9.76	14.25	15.98	0.98	12	21.26	21.85	5.20	26.77	1.22	20.08	29.53	60	45	60	60	60	45	45	45	45	45

DIN											Unit: mm		PRESSURE Test for Assembly (at 20°C)									
Nom. Size mm(inch)	D1	D2	D3	e	n No. of holes	D4	D5	LIR ℓ	L	T	H	I	Test Pressure Unit: kgf/cm²									
													Rubber Diaphragm					Teflon Diaphragm				
													UPVC	PP	PPG	CPVC	PVDF	UPVC	PP	PPG	CPVC	PVDF
15(1/2")	16	65	95	14	4	59x33	94	13	130	23	101	140	10	10	10	10	10	7	7	10	7	7
20(3/4")	20	75	105	14	4	74x33	94	13	150	23	106	152	10	10	10	10	10	7	7	10	7	7
25(1")	25	85	115	14	4	80x36	94	14	160	23	113	156	10	10	10	10	10	7	7	10	7	7
40(1 1/2")	41	110	150	18	4	126	147	24	200	23	133	193	10	10	10	10	10	7	7	10	7	7
50(2")	52	125	165	18	4	148	147	28	230	23	145	210	10	10	10	10	10	7	7	10	7	7
65(2 1/2")	66	145	185	18	4	190	202	32	250	23	194	278	10	10	10	10	10	7	7	10	7	7
80(3")	78	160	200	18	8	215	202	34	310	22	218	293	10	10	10	10	10	6	5	6	6	6
100(4")	100	180	220	18	8	255	241	54	350	28	261	370	10	10	10	10	10	6	5	6	6	6
125(5")	125	210	250	18	8	320	274	72	400	20	308	412	7	7	7	7	7	5	4	4	5	5
150(6")	148	240	285	23	8	385	395	72	480	32	334	471	7	7	7	7	7	5	4	4	5	5
200(8")	198	290	340	23	8	430	395	96	600	30	419	625	4	4	4	4	4	3	3	3	3	3
250(10")	248	350	395	23	12	540	552	132	680	34	510	750	4	3	4	4	4	3	3	3	3	3



UPVC / CPVC PIPE FITTING VALVE

BUTTERFLY VALVE-Universal Type (With actuator direct mounting pad) Lever Handle Type

通用型蝶閥



BE300
Size: 2" - 8"

End Type: Flanged

Test Pressure: 225 PSI

Working Pressure: 150 PSI

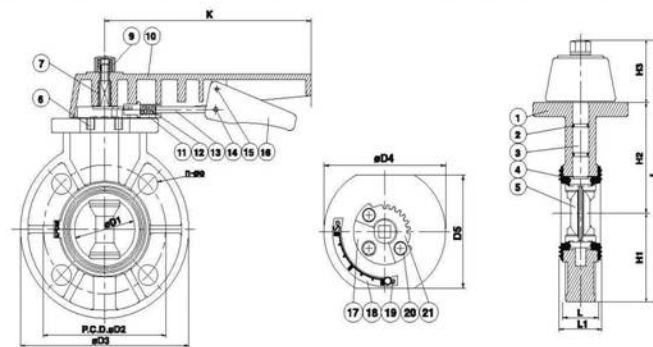
- Corrosion resistance.
- Excellent flow characteristics.
- Lower flow loss.
- Compact and lightweight designs in an energy-saving and cost-efficient Butterfly Valve.
- With clear indication of disc opening degree.
- Ideally suited for flow control in a minimum piping space.

MATERIALS OF CONSTRUCTION

No.	Parts	Pcs	Materials	No.	Parts	Pcs	Materials
1	Body	1	UPVC, PP, CPVC, PVDF	12	Spring	1	SUS 304
2	Stem O'ring	2	EPDM, VITON	13	Lever	1	SUS 304
3	Stem	1	SUS 410, SUS 316	14	Setpin(Short)	1	SUS 304
4	Seat	1	EPDM, VITON, NBR	15	Setpin(Long)	1	SUS 304
5	Disc	1	UPVC, PP, CPVC, PVDF	16	Lever	1	ABS
6	Bolt	1	BRASS, SUS 304	17	Positioner	1	UPVC
7	Handle Insert	1	FC 0208	18	Indicator	1	SUS 304
9	Stem Bolt	1	UPVC, BRASS	19	Bolt	2	SUS 304
10	Handle	1	ABS	20	Bolt	3	SUS 304
11	Handle Cap	1	ABS	21	Teeth Plate	1	SUS 304



UPVC / CPVC PIPE FITTING VALVE



The Torque Values

DN50~DN200

AT Water									Unit: kgf/m
	W/O Pressure		Pressure at 50PSI		Pressure at 100PSI		Pressure at 150PSI		
	Open	Close	Open	Close	Open	Close	Open	Close	
2"	0.80	0.80	0.80	1.00	0.80	1.00	1.00	1.00	
3"	2.50	2.50	3.00	3.00	2.50	2.50	3.00	3.00	
4"	2.50	3.00	3.00	3.00	3.00	3.00	3.00	3.00	
6"	8.00	9.00	8.00	8.00	7.50	8.00	6.00	7.00	
8"	10.00	11.00	11.00	11.00	10.50	10.50	9.50	9.50	

DIMENSIONS TABLE

JIS														Unit: mm
Nom. size DN(Inch)	D1	D2	D3	n	L	L1	D4	H1	H2	H3	I	K	D5	
50(2")	55	123	164	4	38	41	105	82	107	63	252	204	93	
80(3")	78	151.8	196	4	42	45	127	98	123	63	284	204	95	
100(4")	100	182	225	8	48	51	134	112.5	139.5	68	320	253	100	
150(6")	152	240	286	8	51	54	170	143	178	86	407	297	101	
200(8")	200	290	344	12	61	64	191	172	212	86	470	297	110	

ANSI														Unit: inch
Nom. size DN(Inch)	D1	D2	D3	n	L	L1	D4	H1	H2	H3	I	K	D5	
50(2")	2.16	4.84	6.46	4	1.50	1.61	4.13	3.23	4.21	2.48	9.92	8.03	3.66	
80(3")	3.07	5.97	7.72	4	1.65	1.77	5.00	3.86	4.84	2.48	11.18	8.03	3.74	
100(4")	3.94	7.16	8.85	8	1.89	2.00	5.27	4.43	5.49	2.68	12.60	9.96	3.94	
150(6")	5.98	9.44	11.26	8	2.20	2.13	6.69	5.63	7.00	3.39	16.02	11.69	3.98	
200(8")	7.87	11.70	13.54	8	2.40	2.52	7.52	6.77	8.35	3.39	18.50	11.69	4.31	

DIN														Unit: mm
Nom. size DN(Inch)	D1	D2	D3	n	L	L1	D4	H1	H2	H3	I	K	D5	
50(2")	55	123	164	4	38	41	105	82	107	63	252	204	93	
80(3")	78	151.8	196	4	42	45	127	98	123	63	284	204	95	
100(4")	100	182	225	8	48	51	134	112.5	139.5	68	320	253	100	
150(6")	152	240	286	8	51	54	170	143	178	86	407	297	101	
200(8")	200	295	344	8	61	64	191	172	212	86	470	297	110	

*Standard dimensions based on UPVC material

BUTTERFLY VALVE GEAR OPERATOR FULL FLANGED TYPE

旋轉凡而全法蘭齒輪式

BF300

Size: 8"- 24"

*OPTION: 8"(DN200)Lever type.

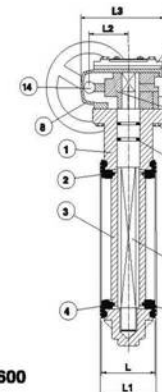
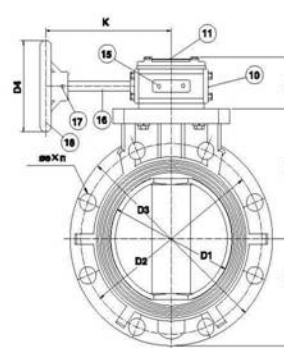


MATERIALS OF CONSTRUCTION

No.	Parts	Pcs.	Materials	No.	Parts	Pcs.	Materials
1	Body	1	UPVC, PP,CPVC, PPG, PVDF	11	Indicator Plate	1	PVC
2	Seat	1	EPDM, VITON, NBR, HYPALON	12	Gear	1	FCD45
3	Disc	1	UPVC, PP,CPVC, PPG, PVDF	13	Oil Seal	1	EPDM
4	Disc O'ring(A)	2	EPDM, VITTON	14	Bearing	1	SMCM220/420/810
5	Disc O'ring(B)	2	EPDM, VITTON	15	Adjustable Bolt	2	SS41
6	Stern	1	SUS410, SUS304, SUS316	16	Gearing	1	SS41
7	Stern O'ring	2	EPDM, VITON	17	Set Pin	1	K7
8	Gear Box	1	FC25	18	Hand Wheel	1	FC25
9	Gear Box Cap	1	FC25	19	Tightening Bolt	4	SCM3,SUS304
10	Side Cap	1	FC25				

Torque Values (1kgf/m=9.8N.m)

BF-V'S Size	Torque Under Wettest Any Water Pressure	Under Water Testing Pressure(Kg/cm ²)			BF-V'S Size	Torque Under Wettest Any Water Pressure	Under Water Testing Pressure(Kg/cm ²)		
	(Lb/In)	Water Pressure(Kg/cm ²)	Open Torque(Kg/In)	Close Torque(Kg/In)		(Lb/In)	Water Pressure(Kg/cm ²)	Open Torque(Kg/In)	Close Torque(Kg/In)
2"	1.5	15	0.5	0.5	12"	27.0	6	14	18
2-1/2"	1.5	15	0.5	0.5	14"	37.0	6	25	28
3"	2.0	15	1	1.5	16"	42.0	—	—	—
4"	2.0	12	1	1.5	18"	52.0	—	—	—
5"	5.0	12	2.5	4.5	20"	85.0	—	—	—
8"	8.5	12	4	7	24"	76.0	—	—	—
8"	10.0	10	6	8.5					
10"	17.0	8	7	10					



DN200~DN600

DIMENSIONS TABLE

JIS																	
Nom. Size DN(inch)	D1	D2	n	øe	D3	L	L1	H1	H2	H3	K	L2	L3	D4	Test Press (kgf/cm ²)		Working Press (kgf/cm ²)
															Body	Seat	
200(8")	203	290	12	23	337	76	87	168	204	69	174	51	136	153	15.0	12.0	10.0
250(10")	250	355	12	25	400	96	111	200	235	69	174	51	136	153	15.0	12.0	10.0
300(12")	312	400	16	25	493	116	132	239	289	103	212	72	189	244	10.5	8.5	7.0
350(15")	355	445	16	25	520	116	132	259	305	103	212	72	189	244	10.5	8.5	7.0
400(16")	403	510	16	27	600	153	169	302	353	103	212	72	189	244	9.0	7.0	6.0
450(18")	451	565	20	27	640	166	181	317	385	121	269	116	285	244	7.5	6.0	5.0
500(20")	500	620	20	27	711	171	190	365	405	121	330	116	285	464	5.0	4.0	3.5
600(24")	600	730	24	33	813	191	209	425	480	121	330	116	285	464	5.0	4.0	3.5

ANSI																	
Nom. Size DN(Inch)	D1	D2	n	øe	D3	L	L1	H1	H2	H3	K	L2	L3	D4	Test Press (kgf/cm ²)		Working Press (tbf/in ²)
															Body	Seat	
200(8")	7.96	11.75	8	0.88	13.27	2.99	3.43	6.61	8.03	2.72	6.85	2.01	5.35	6.02	222	177	150
250(10")	9.85	14.25	12	0.98	15.75	3.78	4.37	7.87	9.25	2.72	6.85	2.01	5.35	6.02	222	177	150
300(12")	12.26	17.00	12	0.98	19.40	4.57	5.20	9.14	11.38	4.05	8.35	2.83	7.44	9.16	155	125	105
350(15")	13.97	18.25	12	1.14	20.47	4.57	5.20	10.20	12.01	4.05	8.35	2.83	7.44	9.16	155	125	105
400(16")	15.86	21.25	16	1.14	23.62	6.02	6.85	11.89	13.90	4.05	8.35	2.83	7.44	9.16	133	103	88
450(18")	17.75	22.75	16	1.26	25.20	6.45	7.13	12.48	14.37	4.76	10.59	4.57	11.22	18.27	111	88	74
500(20")	19.70	25.00	20	1.26	27.99	6.73	7.48	14.37	15.94	4.76	12.99	4.57	11.22	18.27	74	59	52
600(24")	23.66	28.50	20	1.38	32.00	7.52	8.23	16.73	18.11	4.76	12.99	4.57	11.22	18.27	74	59	52

DIN																
Nom. Size DN(inch)	D1	D2	n	øø	D3	L	L1	H1	H2	H3	K	L2	L3	D4	Test Press (kgf/cm ²) Body Seal	Working Press (kgf/cm ²)
200(8")	203	290	8	23	337	76	87	168	204	66	174	51	136	153	15.0	12.0
250(10")	250	355	12	25	400	96	111	200	235	69	174	51	136	153	15.0	12.0
300(12")	312	400	12	25	493	116	132	239	289	103	212	72	189	244	10.5	8.5
350(15")	355	460	16	25	520	116	132	259	305	103	212	72	189	244	10.5	8.5
400(16")	403	515	16	27	600	153	169	302	383	103	212	72	189	244	9.0	7.0
450(18")	451	565	20	27	640	166	181	317	365	121	269	116	285	244	7.5	6.0
500(20")	500	620	20	27	711	171	190	365	405	121	330	116	285	244	5.0	4.0
600(24")	600	725	20	30	813	191	209	425	480	121	330	116	285	244	5.0	4.0

* Standard dimensions based on UPVC material



UPVC / CPVC PIPE FITTING VALVE

SUPER LARGE SIZED BUTTERFLY VALVE

超大型旋轉凡而



BS300

Size: Ø700(28") ~ Ø1200(48")

MATERIAL: UPVC, PP, CPVC, PPG, PVDF

MODEL: Gear operated type(齒輪式) · Chaining type(鏈條式)
Hydraulic type(油壓式) · Pneumatic type(氣壓式)

FEATURES:

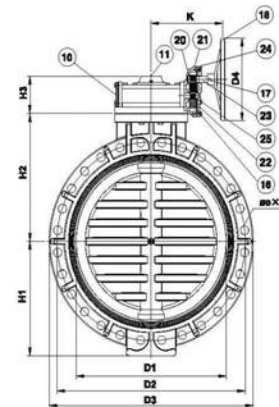
- Fullport allowing max. fluid flow. 全口徑、流量足
- ECONOMIC EQUIPMENT: Fluid control plate concealed in piping system, space saved. 設備經濟、控制流量的活板、隱藏於管路中、佔管路配置極小的空間。
- EASY OPERATION-90° open and close, long duration. 操作簡便、90° 開關使用壽命長。
- WIDE APPLICATION RANGE-Acid & alkali resistance, anti-corrosion, and suitable for fluid and air use. 用途極廣、可耐強酸、強鹼並適用於液體及氣體。

MATERIALS OF CONSTRUCTION

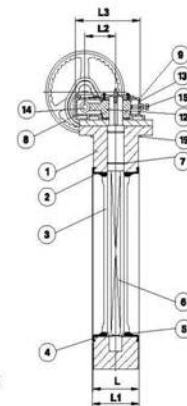
1	Body	1	PPG	14	Bearing	1	STEEL
2	Seat	1	EPDM,VITON,NBR,HYPALON	15	Adjustable Bolt	2	STEEL
3	Disc	1	UPVC,PP,CPVC,PPG,PVDF	16	WORM SHAFT	1	STEEL
4	Disc O'ring(A)	2	EPDM,VITON	17	Set Pin	1	K7
5	Disc O'ring(B)	2	EPDM,VITON	18	Hand Wheel	1	CAST IRON
6	Stern	1	SUS210	19	Tightening Bolt	4	SUS304
7	Stern O'ring	2	EPDM,VITON	20	Bearing	4	COPPER
8	Gear Box	1	CAST IRON	21	SPUR GEAR BODY	1	CAST IRON
9	Gear Box Cap	1	CAST IRON	22	SPUR GEAR	1	STEEL
10	Side Cap	1	CAST IRON	23	SPUR GEAR SHAFT	1	STEEL
11	Indicator Plate	1	CAST IRON	24	SPUR GEAR COVER	1	CAST IRON
12	Gear	1	DUCTILE IRON	25	BOLT	6	STEEL
13	Oil Seal	1	PAPER				



UPVC / CPVC PIPE FITTING VALVE



DN700~DN1200



DIMENSIONS TABLE

JIS												Unit: mm
Nom. size DN(Inch)	D1	D2	D3	n	e	H1	H2	H3	K	D4	L	L1
700(28")	680	840	928	24	33	495	555	140	306	508	200	206
800(32")	780	950	1060	28	33	560	625	142	370	406	234	244
900(36")	870	1050	1175	28	33	620	690	142	370	406	234	245
1000(40")	970	1160	1286	28	39	685	750	210	471	508	294	301
1100(44")	1070	1275	1403	28	39	712	823	210	471	508	294	301
1200(48")	1170	1380	1512	32	39	776	876	210	471	508	294	301

ANSI												Unit: inch
Nom. size DN(Inch)	D1	D2	D3	n	e	H1	H2	H3	K	D4	L	L1
700(28")	26.77	33.99	36.54	24	1.37	19.49	21.85	5.51	12.04	20	7.87	8.11
800(32")	30.70	38.50	41.73	24	1.61	22.05	24.61	5.59	14.58	16	9.21	9.60
900(36")	34.25	42.75	46.26	32	1.62	24.41	27.17	5.59	14.58	16	9.21	9.64
1000(40")	38.18	46.25	50.63	32	1.62	26.97	29.53	8.27	18.54	20	11.57	11.85
1100(44")	42.12	51.75	55.25	40	1.62	28.03	32.48	8.27	18.54	20	11.57	11.85
1200(48")	46.06	56.00	59.52	44	1.62	30.55	34.48	8.27	18.54	20	11.57	11.85

DIN												Unit: mm
Nom. size DN(Inch)	D1	D2	D3	n	e	H1	H2	H3	K	D4	L	L1
700(28")	680	840	928	24	30	495	555	140	306	508	200	206
800(32")	780	950	1060	24	33	560	625	142	370	406	234	244
900(36")	870	1050	1175	28	33	620	690	142	370	406	234	245
1000(40")	970	1175	1286	28	36	685	750	210	471	508	294	301
1100(44")	1070	—	1403	—	—	712	825	210	471	508	294	301
1200(48")	1170	—	1512	32	39	776	876	210	471	508	294	301



UPVC / CPVC PIPE FITTING VALVE



UPVC / CPVC PIPE FITTING VALVE

BALL CHECK VALVE(VERTICAL TYPE)

球型逆止凡而(直式)

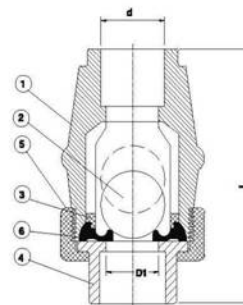
SOCKET JB100 / THREAD JB200 / FLANGED JB300

SIZE: 1/2"-10"

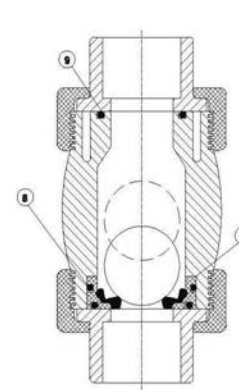


MATERIALS OF CONSTRUCTION

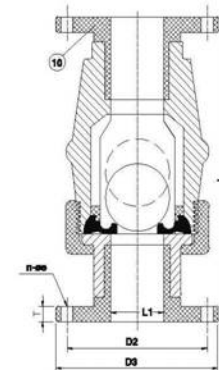
No.	Parts	Pcs.	Materials
1	Body	1	UPVC, PP, CPVC, PVDF
2	Ball	1	UPVC, CPVC, PVDF
3	Washer	1	UPVC, PP, CPVC, PVDF
4	End Connector	1...DN15-50 2...DN65-100	UPVC, PP, CPVC, PVDF
5	Union Nut	1...DN15-50 2...DN65-100	UPVC, PP, CPVC, PVDF
6	Seat	1	EPDM, VITON
7	Seat Carrier	1	UPVC, PP, CPVC, PVDF
8	Seat Carrier O'ring	1	EPDM, VITON
9	Solid End O'ring	1	EPDM, VITON
10	Flanged End	2...DN15-100 1...DN150-250	UPVC, PP, CPVC, PVDF
11	Reinforcement Plate	8	SUS410(150A-250A)
12	Bolts on Reinforcement Plate	10...DN150 20...DN250	SUS410



15A(1/2'')-50A(2'')



65A(2-1/2'')-100A(4'')



FLANGED
15A(1/2'')-250A(10'')

DIMENSIONS TABLE

	JIS												ANSI												DIN											
	Unit:mm												Unit:inch												Unit:mm											
	d		D2		D3		n		se		L		d		D2		D3		n		se		L		d		D2		D3		n		se		L	
	D1												D1												D1											
		Screw	Socket											Screw	Socket											Screw	Socket									
15-1/2	15	PT	22	70	95	4	15	95	99	135	15	0.99	NPT	0.84	2.375	3.500	4	0.63	3.74	7.90	5.43	0.59	15	R1/2	20	65	95	4	14	95	99	135	15			
20-3/4	20	PT	26	75	100	4	15	121	121	158	16	0.79	NPT	1.05	2.750	3.785	4	0.63	4.78	6.48	0.59	20	R3/4	25	75	105	4	14	121	121	164	15				
25-1	26	PT	32	90	125	4	19	127	127	179	17	0.98	NPT	1.135	3.125	4.250	4	0.63	4.92	5.00	0.69	0.66	26	R1	32	85	115	4	14	127	127	173	17			
32-1 1/4	36	PT	38	100	135	4	19	155	155	202	16	1.42	NPT	1.66	3.500	4.625	4	0.63	6.10	6.10	7.95	0.67	36	R1-1/4	40	100	140	4	18	155	155	202	17			
40-1 1/2	40	PT	48	105	145	4	19	155	155	202	16	1.57	NPT	1.90	3.875	5.000	4	0.63	6.10	6.10	7.89	0.7	36	R1-1/2	50	110	150	4	18	155	155	202	17			
50-2	50	PT	60	120	155	4	19	180	180	234	21	1.96	NPT	2.375	4.750	6.000	4	0.75	7.08	7.08	9.08	0.78	40	R2	63	125	165	4	18	180	180	231	20			
65-2 1/2	60	PT	76	140	175	4	19	222	222	276	20	2.36	NPT	2.875	5.500	7.000	4	0.75	8.74	8.74	10.87	0.8	65	R2-1/2	75	145	185	4	18	222	222	276	20			
80-3	80	PT	89	150	185	8	19	274	274	330	20.5	3.15	NPT	3.50	6.000	7.500	4	0.75	10.79	10.79	12.99	0.9	80	R3	90	160	200	8	18	274	274	330	20			
100-4	100	PT	114	175	210	8	19	367	367	423	20	3.74	NPT	4.50	7.500	9.000	8	0.75	14.45	14.45	16.57	0.92	100	R4	100	180	220	8	18	367	367	423	20			
150-6	150	-	-	240	280	8	23	-	-	480	22	-	-	-	9.500	11.000	8	0.88	-	-	18.90	0.87	150	-	-	240	285	8	23	-	-	-	-	480	22	
250-10	250	-	-	355	400	12	23	-	-	670	24	-	-	-	14.250	16.000	12	1.00	-	-	26.36	0.94	250	-	-	350	395	12	23	-	-	-	-	670	24	

* Standard dimensions based on UPVC material



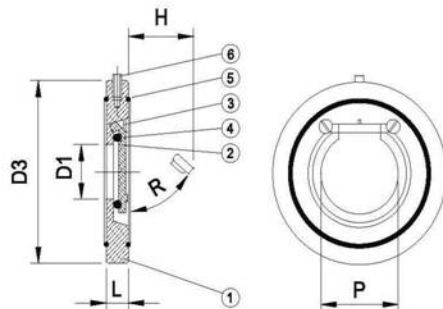
UPVC / CPVC PIPE FITTING VALVE

WAFFER CHECK VALVE

單片逆止閥

JT 300S

Size: DN40 ~ DN600



Applications (使用場合):
- Water and waste water treatment
- Chemical Industrial
- Environmental Industrial
- Process Industrial
- Systems engineering

水及廢水處理
化工工業
環境工程
加工生產工程
管路系統工程

Features (特點):

- Requires little space in piping system 產品造型緊湊
- Economical - Simple and durable construction 經濟簡單，結構耐用
- Easy Installation - Wafer Body to slip between standard flanges 安裝簡單，夾示裝在一般法蘭和法蘭間
- Light Weight 重量輕
- Chemical Resistant 耐化學
- No corrosion 抗腐蝕

MATERIALS OF CONSTRUCTION

No.	Parts	Pcs.	Materials	No.	Parts	Pcs.	Materials
1	Body	1	UPVC.PP.CPVC.PVDF	4	O'ring	1	EPDM.VITON
2	Flapper	1	UPVC.PP.CPVC.PVDF	5	O'ring	2	EPDM.VITON
3	Flapper mounting screw	2	PP	6	Installation device	1	SUS316

DIMENSIONS TABLE

Nom. Size	JIS Unit:mm					ANSI Unit:inch					DIN Unit:mm				
	D1	D3	P	L	H	D1	D3	P	L	H	D1	D3	P	L	H
40(1-1/2")	23	95	35	16	25	0.89	3.76	1.38	0.63	0.99	23	95	35	16	25
50(2")	32	109	45	20	46	1.26	4.30	1.77	0.79	1.80	32	109	45	20	46
65(2-1/2")	40	130	60	20	51	1.57	5.12	2.36	0.79	2.00	40	130	60	20	51
80(3")	54	145	72	20	74	2.13	5.71	2.83	0.79	2.90	54	145	72	20	74
100(4")	70	164	90	22	91	2.76	6.45	3.54	0.87	3.60	70	164	90	22	91
125(5")	92	196	109	22	96	3.64	7.72	4.28	0.87	3.77	92	196	109	22	96
150(6")	112	220	132	26	147	4.40	8.66	5.19	1.02	5.80	112	220	132	26	147
200(8")	150	275	176	35	191	5.90	10.82	6.93	1.38	7.50	150	275	176	35	191
250(10")	190	330	222	40	229	7.48	12.99	8.74	1.57	9.00	190	330	222	40	229
300(12")	216	380	260	45	259	8.62	14.96	10.23	1.77	10.20	216	380	260	45	259
350(14")	266	440	300	49	245	10.47	17.32	11.81	1.93	9.64	266	440	300	49	245
400(16")	310	491	340	65	285	12.20	19.33	13.38	2.56	11.22	310	491	340	65	285
450(18")	350	541	390	68	330	13.78	21.30	15.35	2.67	13.00	350	541	390	68	330
500(20")	400	596	440	78	385	15.75	23.46	17.32	3.07	15.15	400	596	440	78	385
600(24")	450	700	490	85	430	17.72	27.55	19.29	3.34	16.92	450	700	490	85	430



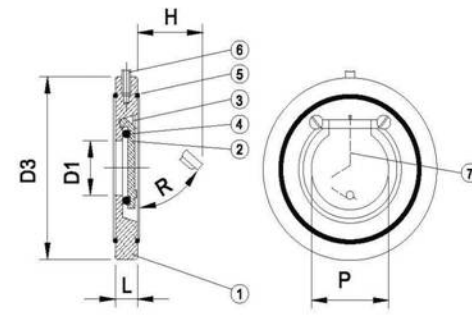
UPVC / CPVC PIPE FITTING VALVE

WAFFER CHECK VALVE(with springs)

單片逆止閥(有彈簧)

JT 300S

Size: DN40 ~ DN600



Applications (使用場合):
- Water and waste water treatment
- Chemical Industrial
- Environmental Industrial
- Process Industrial
- Systems engineering

水及廢水處理
化工工業
環境工程
加工生產工程
管路系統工程

Features (特點):

- Requires little space in piping system 產品造型緊湊
- Economical - Simple and durable construction 經濟簡單，結構耐用
- Easy Installation - Wafer Body to slip between standard flanges 安裝簡單，夾示裝在一般法蘭和法蘭間
- Light Weight 重量輕
- Chemical Resistant 耐化學
- No corrosion 抗腐蝕

MATERIALS OF CONSTRUCTION

No.	Parts	Pcs.	Materials	No.	Parts	Pcs.	Materials
1	Body	1	UPVC.PP.CPVC.PVDF	5	O'ring	2	EPDM.VITON
2	Flapper	1	UPVC.PP.CPVC.PVDF	6	Installation device	1	SUS316
3	Flapper mounting screw	2	PP	7	Spring	1	SUS316
4	O'ring	1	EPDM.VITON				

DIMENSIONS TABLE

Nom. Size	JIS Unit:mm					ANSI Unit:inch					DIN Unit:mm				
	D1	D3	P	L	H	D1	D3	P	L	H	D1	D3	P	L	H
40(1-1/2")	23	95	35	16	25	0.89	3.76	1.38	0.63	0.99	23	95	35	16	25
50(2")	32	109	45	20	46	1.26	4.30	1.77	0.79	1.80	32	109	45	20	46
65(2-1/2")	40	130	60	20	51	1.57	5.12	2.36	0.79	2.00	40	130	60	20	51
80(3")	54	145	72	20	74	2.13	5.71	2.83	0.79	2.90	54	145	72	20	74
100(4")	70	164	90	22	91	2.76	6.45	3.54	0.87	3.60	70	164	90	22	91
125(5")	92	196	109	22	96	3.64	7.72	4.28	0.87	3.77	92	196	109	22	96
150(6")	112	220	132	26	147	4.40	8.66	5.19	1.02	5.80	112	220	132	26	147
200(8")	150	275	176	35	191	5.90	10.82	6.93	1.38	7.50	150	275	176	35	191
250(10")	190	330	222	40	229	7.48	12.99	8.74	1.57	9.00	190	330	222	40	229
300(12")	216	380	260	45	259	8.62	14.96	10.23	1.77	10.20	216	380	260	45	259
350(14")	266	440	300	49	245	10.47	17.32	11.81	1.93	9.64	266	440	300	49	245
400(16")	310	491	340	65	285	12.20	19.33	13.38	2.56	11.22	310	491	340	65	285
450(18")	350	541	390	68	330	13.78	21.30	15.35	2.67	13.00	350	541	390	68	330
500(20")	400	596	440	78	385	15.75	23.46	17.32	3.07	15.15	400	596	440	78	385
600(24")	450	700	490	85	430	17.72	27.55	19.29	3.34	16.92	450	700	490	85	430



UPVC / CPVC PIPE FITTING VALVE



UPVC / CPVC PIPE FITTING VALVE

CHECK VALVE/ HORIZONTAL TYPE

擺動逆止球閥凡而/橫式

JW300

SIZE: 1"-8"

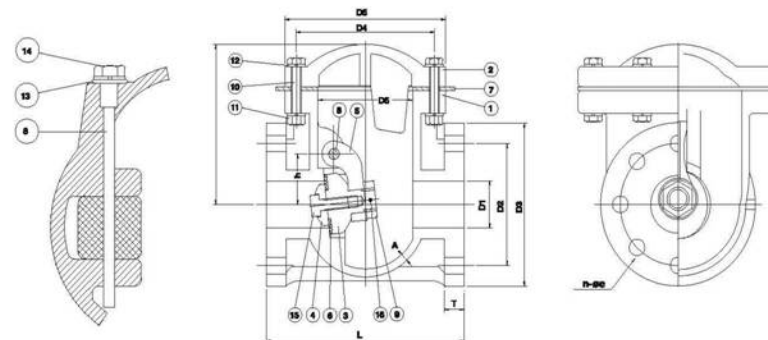


MATERIALS OF CONSTRUCTION

No.	Parts	Pcs.	Materials	No.	Parts	Pcs.	Materials
1	Body	1	UPVC, PP, CPVC, PPG, PVDF	9	Disc Holder	1	PP/PVDF
2	Bonnet	1	UPVC, CPVC, PPG, PVDF	10	Bolts	6...DN15-50 8...DN65-125 10...DN150 12...DN200	SUS304
3	Disc	1	UPVC, PP, CPVC, PPG, PVDF	11	Nuts		SUS304
4	Sheet Gasket Holder	1	UPVC, PP, CPVC, PPG, PVDF	12	Washers		SUS304
5	Swing Arms	1	UPVC, PP, CPVC, PPG, PVDF	13	O-ring	1	EPDM/VITON
6	Disc Gasket	1	EPDM, VITON	14	Shaft Holder	1	PVDF
7	Bonnet Gasket	1	EPDM, VITON	15	Set Bolts	1...DN15-80 3...DN100-125 4...DN150-200	PVDF
8	Shot	2	PP, PVDF	16	Set Pin	1	PVDF

DIMENSIONS TABLE

JIS														Unit: mm	
Nom. Size DN-Inch	D1	D2	D3	e	n No. of holes	D4	D5	D6	L	T	A	h	H	D	Working Press (kg/cm ²)
25(1")	25	90	125	19	4	110	130	75	160	15	8	40	128	8	7
40(1-1/2")	41	105	140	19	4	125	145	85	180	18	8	45	138	8	7
50(2")	52	120	155	19	4	155	180	105	200	18	8	55	164	10	7
65(2-1/2")	80	140	175	19	4	181	205	130	260	20	9	70	171	12	7
80(3")	80	150	185	19	8	181	205	130	260	20	9	70	171	12	7
100(4")	100	175	210	19	8	235	265	170	300	24	10	90	213	16	5
125(5")	125	210	250	23	8	285	330	210	350	24	14	110	238	18	5
150(6")	150	240	280	23	8	330	370	250	400	30	16	135	268	20	5
200(8")	200	290	330	23	12	390	425	300	500	30	18	170	306	20	5



DN25~DN200

DIMENSIONS TABLE

ANSI														Unit: inch	
Nom. Size DN-Inch	D1	D2	D3	e	n No. of holes	D4	D5	D6	L	T	A	h	H	D	Working Press (lb/in ²)
25(1")	1.00	3.13	4.25	0.63	4	4.34	5.13	2.97	6.31	0.59	0.24	1.56	5.07	0.31	150
40(1-1/2")	1.63	3.88	5.00	0.63	4	4.94	5.72	3.34	7.09	0.63	0.31	1.78	5.43	0.31	150
50(2")	2.06	4.75	6.00	0.75	4	6.09	7.09	4.13	7.88	0.71	0.31	2.16	6.45	0.41	150
65(2-1/2")	3.15	5.50	7.00	0.75	4	7.13	8.06	5.13	10.25	0.79	0.35	2.75	6.7	0.47	150
80(3")	3.15	6.00	7.50	0.75	4	7.13	8.06	5.13	10.25	0.79	0.35	2.75	6.7	0.47	150
100(4")	3.94	7.50	9.00	0.75	8	9.25	10.44	6.69	11.82	0.94	0.39	3.53	8.38	0.63	100
125(5")	4.94	8.50	10.00	0.88	8	11.22	13.00	8.28	13.78	0.94	0.55	4.34	9.37	0.72	100
150(6")	5.90	9.50	11.00	0.88	8	13.00	14.56	9.84	15.75	1.18	0.63	5.31	10.8	0.78	100
200(8")	7.88	11.75	13.50	0.88	8	15.31	16.71	11.81	16.69	1.18	0.71	6.69	12.04	0.78	100

DIN														Unit: mm	
Nom. Size DN-Inch	D1	D2	D3	e	n No. of holes	D4	D5	D6	L	T	A	h	H	D	Working Press (kg/cm ²)
25(1")	25	85	115	14	4	110	130	75	160	15	8	40	129	8	7
40(1-1/2")	41	110	150	18	4	125	145	85	180	16	8	45	138	8	7
50(2")	52	125	165	18	4	155	180	105	200	18	8	55	164	10	7
65(2-1/2")	80	145	185	18	4	181	205	130	260	20	9	70	171	12	7
80(3")	80	160	200	18	4	181	205	130	260	20	9	70	171	12	7
100(4")	100	180	220	18	8	235	265	170	300	24	10	90	213	16	5
125(5")	125	210	250	18	8	285	330	210	350	24	14	110	238	18	5
150(6")	150	240	285	23	8	330	370	250	400	30	16	135	268	20	5
200(8")	200	295	340	23	8	390	425	300	500	30	18	170	306	20	5

* Standard dimensions based on UPVC material



UPVC / CPVC PIPE FITTING VALVE



UPVC / CPVC PIPE FITTING VALVE

COMPRESSION COUPLING

(Soc*Soc)

快速接頭



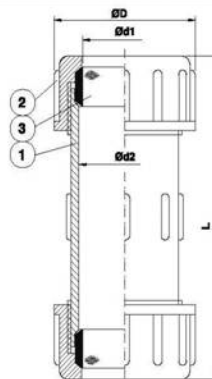
EC100

Size: 1/2" to 4"

- For use in any general piping applications, metal, plastic or copper pipe.
- Easy to operate for instant and emergency piping.

MATERIALS OF CONSTRUCTION

NO.	PART	MATERIAL	Q'TY
1	BODY	UPVC	1
2	UNION NUT	UPVC	2
2	SEAL	NBR + EPDM	2



DN15~DN100

DIMENSIONS TABLE

SIZE Nom.	15mm (1/2")	20mm (3/4")	25mm (1")	32mm (1-1/4")	40mm (1-1/2")	50mm (2")	65mm (2-1/2")	80mm (3")	100mm (4")
D	43.6	49	57	66.9	73.2	88.6	115	130	160.5
d	JIS 21.8	25.8	31.8	37.8	47.8	59.8	75.8	88.8	113.8
	ANSI 21.0	26.47	33.2	42.0	48.0	60.1	72.8	88.7	114.1
	DIN 20.1	25.2	32.2	40.2	50.2	63.2	75.2	90.2	110.2
	BS 20.1	26.4	33.2	41.8	47.9	60.0	75.0	88.5	113.9
D1	22.3	27.3	34.3	43	49.2	63.8	76.5	91.2	116
L	121	128	133	151	168	175	252	277	310

UPVC & CPVC 抗腐蝕工業用壓力管 安裝

膠合劑黏合作業的基本原理

熱塑料管及接頭的膠合劑黏合連接為塑膠管安裝的最後重要的連結。整體而言，它可表示系統是成功或失敗。因此，如其他的系統元件一樣也需要專業的管理及注意。有許多出版的文件上說明了如何製作膠合劑黏合接頭，及其逐步程序的黏合技巧。但我們認為若對於相關的原理加以解釋、說明並讓人了解，將對於符合特定應用、溫度狀況及管與接頭尺寸及安裝的變化等所需的技巧會有更多的了解。

應隨時注意良好的安全措施。管及接頭使用的膠合劑為易燃物，因此在工作場所或儲存區域不可抽煙或放置其他熱源或產生火花。僅可在通風良好的空間內工作，並避免皮膚與各種溶劑的接觸。

為持續製作良好的接合，應詳細了解以下各點：

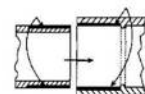
1. 連接面必須軟化且使其成為半流體狀。
2. 應使用充足的膠合劑填入管與接頭之間的縫隙。
3. 當表面仍未乾且為流體狀時進行管與接頭的組裝。
4. 當膠合劑變乾後會展現出接頭的強度。在接頭緊密的部分，接觸面有融接的傾向，而在鬆的部分膠合劑會將表面膠黏一起。

▲ **注意** 安裝人員應確認可在變動情況下仍可製作出合格的接合，且應接受安裝及安全程序的訓練。

軟化及穿透

此區域必須軟化且可穿透。可使用膠合劑本身，及使用適當的清潔劑，或使用清潔劑與膠合劑兩者達到此結果。適當的清潔劑通常比單獨膠合劑可更快穿透並軟化接觸面。

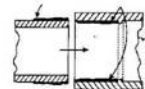
標線區域必須軟化且可穿透



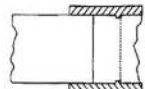
塗抹充足的膠合劑

在接頭鬆的間隙部分應填入足量的膠合劑。除填入間隙外，充足的膠合劑層將穿透接合面並在裝上接頭前仍保持流體狀。

足夠厚度的膠合劑塗層



必須在表面仍未乾且軟時進行組裝



當溶劑蒸發後，膠合劑層及軟化的表面將開始硬化，且逐漸增加接頭的強度。良好的接合必須遠在接頭完全乾燥且達到最終強度之前，加上一定的工作壓力。在接頭的緊密（融接）部分，強度的進展比在接頭鬆（膠黏）的部分更快速。可索取膠合劑黏合接頭膠黏強度進展的相關資訊。

膠黏表面



融接表面

- ▲ **警告：** 1. 本產品禁止使用壓縮的空氣或瓦斯在塑膠的管配件上。
2. 禁止使用壓縮的氣體或瓦斯測試塑膠管路系統。



UPVC / CPVC PIPE FITTING VALVE

UPVC & CPVC 抗腐蝕工業用壓力管

安裝

炎熱天氣

以膠合劑黏合的管線產品在很多情況下將無法避免處於95°F(35°C)或以上的溫度，但若採取一些特別的預防措施將可避免問題的產生。膠合劑含有高溫時蒸發速度更快的高強度溶劑，此種情況尤其在炎夏熱風吹拂下更為明顯。若管子直接暴露於陽光直射一段時間後，表面的溫度可能比空氣溫度高出20°F-30°F。尤其在接頭內，溶劑侵襲這些高熱表面的速度會更快，也更深。因此很重要的一點是，不可在接頭管套填滿太多膠合劑，且必須將外部過多的膠合劑擦拭乾淨。

膠合劑在高溫時應遵守的一些提示：

1. 膠合劑使用前，應存放在陰涼或有遮蔭的區域。
2. 可能的話，將接頭或管子，或至少把即將以溶劑黏合的管子一端在黏合前存放在遮蔭的區域。
3. 以沾濕的布擦拭即將黏合的表面使其溫度降低。在塗上膠合劑前應確定黏合的表面為乾的。
4. 應試圖在早上較涼爽的時候進行膠合劑黏合作業。
5. 將兩接合面黏合前，應確定表面上的膠合劑仍是濕的。

寒冷天氣

溶劑黏合劑產品具有優異的低溫穩定性，且其配方即使在零下溫度下也具有良好均衡的乾燥特性。若運用正確的管理及少許的普通常識即可在極低溫條件下製作良好的膠合劑黏合。在寒冷天氣時，膠合劑穿透及軟化表面的速度比暖天氣時要緩慢。塑膠較能抵抗膠合劑的侵襲，因此預先軟化表面變得更重要。因為蒸發速度較慢，因此需要更長的固化時間。

膠合劑在低溫時應遵守的一些提示：

1. 在加熱的工作區域儘可能將系統預先製作。
2. 膠合劑不使用時應存放在較暖和的區域，並確定仍保持液體狀態。
3. 應特別注意去除水分，包括結冰及雪片。
4. 應特別注意確保接合表面已充分軟化，可能需塗幾次膠合劑。
5. 系統使用前應延長黏合劑固化的時間。壓力測試前，應遵守適當的凝固及固化時間。

工作開始

- 檢視安全預防措施
- 檢視膠合劑罐上的標籤
- 檢視組裝指示
- 使用前將黏合的管子及接頭調整至相同的溫度狀態

使用前檢查

管子及接頭在實際安裝前必須檢查是否有損壞。管子或接頭若有切痕、凹洞、刮痕、裂開或其他因不當搬運或儲存造成的損壞跡象，則不應再使用。可利用裁切熱塑料管正確的技能將損壞的一段管子切除。

檢查材料

確定即將連接的接頭、閥及管子都是相同的塑膠材質產品（即，UPVC或CPVC）。應確定正確的清潔劑及膠合劑用於正確的管子及接頭上。切勿使用UPVC膠合劑於類型I的UPVC管子上，相反的，切勿使用UPVC膠合劑於CPVC管子及接頭上。使用前應確認使用期限已戳印在膠合劑及清潔劑容器上（通常可在容器的底部找到日期碼）。

膠合劑的處理

不使用膠合劑時應將容器的蓋子蓋好。若膠合劑容器的蓋子未蓋上而使膠合劑暴露於空氣較長的時間時，罐內的膠合劑會變厚及黏稠或成為膠狀物。這種情況是因為內含的四氫喃（Tetra hydro furan）溶劑蒸發的結果。若此情況發生時，膠合劑將不可再使用。請勿添加並攪拌稀釋劑試圖恢復膠合劑的性質。基於此原因，建議使用較小而非較大容器的膠合劑，特別是在暖或炎熱的天氣使用時更應如此。在使用未開封的膠合劑容器前，可以劇烈的搖動以確保樹脂及溶劑可以均勻的擴散分配。應記住UPVC膠合劑內的溶劑具有高度的易燃性，因此不可在明火附近使用。膠合劑使用的區域應有充足的通風，且應避免長時間吸入膠合劑蒸氣，以及接觸皮膚及眼部。所有的UPVC膠合劑都應以處理快乾油漆相同的方式處理。使用前應確定在膠合劑及清潔劑的容器上有使用期限的戳印。



UPVC / CPVC PIPE FITTING VALVE

UPVC & CPVC 抗腐蝕工業用壓力管

安裝

1. 裁切

使用適當的工具裁切管子。為確保管子切平整垂直，當使用鋸子時必須使用輔助箱（miter box）。將管子儘可能擺平整垂直可提供管面有最大的膠黏區域。UPVC及CPVC管可使用輪型塑膠切管器。若使用棘齒輪式的切刀時，特別在低於50°F(10°C)以下時應注意不可使管子裂開。若有任何損壞的跡象，或裂痕很明顯時，可在離裂痕至少2"處切除。重要的一點是所使用的裁切工具必須專為塑膠管而設計使用的。



2. 斜切/去毛邊

毛邊及細屑可阻礙組裝時管與接頭的接觸，因此必須從管子的外部及內部去除這些毛邊及細屑。可使用斜角工具及銼刀達到此目的。在管子的管口處應有一小斜角可使管子易進入接頭（socket）內，且將膠合劑從接頭到除的機會降至最低。將管口裁切成30-45°度寬1/16"-3/32"的斜角。



3. 接合準備

A. 檢查與清潔管件一組裝前，應檢查所有管件是否有損壞或異狀。應檢查接合管件以確定公差及接合可相容。請勿使用有異狀或不可完全接合的管件。請洽出現問題的管件產品製造商以決定其是否可用。使用乾淨的乾布擦拭接頭管套及管口的灰塵與水分。水分会減緩固化時間，在此組裝階段時，過多的水將會降低接合的強度，並造成接合失敗。

B. 檢查乾燥的接合—管子應可輕易地進入接頭管套1/2至3/4段。若管口末端在接頭內受到阻礙時，使用額外的膠合劑來接合。

C. 量測管套深度—量測接頭的管套長度，並且在管口以此距離作記號。此參考記號在組裝時可確定接合時的管口已完全進入接頭內。

D. 將管子及接頭定位以供對準。

4. 塗上清潔劑

塗上膠合劑之前，以及進行往後組裝前必須在黏合區域先使用清潔劑。重要的是使用適當的塗佈器、天然鬃毛刷、或約管徑1/2的滾輪。不可使用布塊。清潔劑必須塗抹於管子外表及接頭上。在接頭管套上塗上清潔劑，然後在管



口外部塗上清潔劑，必要時塗佈器再沾一次清潔劑以確定整個表面是濕的。必要時可重複塗抹。

5. 塗抹膠合劑

管子及接頭乾淨後才可塗抹膠合劑，且必須在清潔劑仍黏稠時迅速塗抹。使用塗抹器、天然鬃毛刷或約管徑1/2的滾輪在接合面上塗抹膠合劑。在管口外部，接頭管套的長度上塗抹厚重、均勻的膠合劑塗層。塗抹的量應超過足夠填補任何縫隙的量。在接頭管套上塗上中量塗層。避免攪動膠合劑。檢查乾燥的接合處若有極少（或無）阻礙物時，可在管口上再第二次塗抹膠合劑。



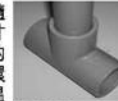
6. 組裝

當兩個接合面的膠合劑仍然未乾時，應立即將管子插入接頭管套並將管子轉動1/4圈。管口底部必須完全接觸到接頭底部。此時應適當對準接頭進行安裝。握住組件約30秒以確定初期膠黏。因為在配件底部（interference fit）處為錐形，在初期膠黏時若未在接合處穩定握住，管子可能會退出接頭底部。若在管及管套接合處四周漏出膠合劑珠粒則表示有此情況發生。若在管套肩部四周無連續膠合劑的珠粒擠出，則可顯示塗抹的量不足。若未塗抹足夠的膠合劑，應將接合處切掉丟棄，再重新開始。可使用布塊擦拭過多的膠合劑珠粒。



7. 凝固及固化時間

膠合劑的凝固及固化時間隨使用的膠合劑類型、管尺寸、溫度、相對溼度及接合的鬆緊度而改變。在乾燥的環境下、較小的管尺寸、高溫、較緊密的接合情況，有更快的乾燥時間。必須讓組件在接合處未受到壓力的情況下凝固1-5分鐘，視管尺寸及溫度而定。在初期凝固時間後，可以小心地處理組件避免在接合處受到壓力。進行壓力測試前，必須讓膠合劑黏合的組件適當固化。



！ 註 在此所提供的般逐步指示係根據傳統 Schedule 40及Schedule 80 UPVC & CPVC工業管線產品在正常安裝條件下使用，不可視為其可適用於各種可能的現場條件組合。



UPVC / CPVC PIPE FITTING VALVE

UPVC & CPVC 抗腐蝕工業用壓力管 安裝

膠合劑的預估數量

UPVC及CPVC 膠合劑的預估數量將隨安裝條件、公差變化、管套深度而不同。組合式(fabricated)及擴口式(belled)接頭通常需要較多的數量。若已認知並遵照指示所述的注意事項，則可多用些數量而不是給量不足。安裝時可能會發生以前未碰過的現場情況或各種因素的組合情況。因此可考慮以下所列的資訊作為基本的建議，但不是作為保證。組合式接頭的管套深度可隨製造商，或壓力額定的

接頭而有不同。這些所示尺寸的膠合劑需求係以所示的管套深度為基礎。若管套深度較短，則使用較少量的膠合劑。例如，若12"接頭的管套深度僅5"，則膠合劑量為所示每一接合用量的5/8.5。若12"接頭的管套深度為9"，則膠合劑量為所示用量的9/8.5。

P-70清潔劑的平均需求量为膠合劑量的1/3。

根據管徑每品脫(pint)及夸脫(quant)尺寸的預估接合數

品脫 (pint)				管套接合夸脫 (quant)			
接頭尺寸 (英吋)	接合數	平接頭或90° 彎頭數量	T型管數	擴口管 接合數	接合數	平接頭或90° 彎頭數量	擴口管 接合數
1/2	190	95	64	N/A	380	190	127
3/4	120	60	40	N/A	240	120	80
1	100	50	33	N/A	200	100	66
1-1/4	70	35	24	N/A	140	70	48
1-1/2	50	25	17	N/A	100	50	33
2	30	15	10	25	60	30	20
2-1/2	25	12	8	20	50	24	16
3	20	10	6	16	40	20	12
4	12	6	4	9	24	12	8
5	9	4.5	3	-	18	9	6
6	5	2.5	1.7	3	10	5	3.3
8	2.5	1	0.8	2	5	2.1	1.6

管套接合

尺寸 (英吋)	管套深度	膠合劑*夸脫/接合
10	8	.75
12	8.5	1.00
14	9	1.25
16	10	1.50
18	12	2.00
20	12	2.25
24	14	3.25

墊圈管 (潤滑劑)

標稱管尺寸 (英吋)	每品脫平均接合數 (1磅)潤滑劑容器
2	70
2.5	60
3	50
4	35
6	20
8	14
10	10
12	7
14	5
16	3
18	2
20	1.5
24	1

膠合劑組裝指示

一般指示

▲ 注意 塗抹底料及黏合劑前，應採取適當的安全預防措施。清潔劑及膠合劑應存放在 40°F-110°F(4°C-43°C) 的遮蔭處。消除所有的火光源，避免吸入蒸氣。僅在通風良好的地方使用。建議使用防爆型機械式通風或局部抽風裝置，以保持蒸氣濃度低於建議的暴露限制。在全密封或部分密封的區域，建議使用NIOSH核准的有機蒸氣罐且可完全覆蓋臉部的呼吸器。不使用時應將容器關閉，而使用時也應儘可能蓋起來。避免與皮膚經常接觸；建議戴上PVA塗層的保護手套，及不透液體的圍裙。避免與眼部接觸；建議戴上防噴濺的眼罩。使用前應確認有效期限的日期已戳印在膠合劑及清潔劑容器上。

物件準備：使用前將管子與接頭調整至相同的溫度狀態。用於接合的所有管子、接頭及工具在接合前及接合過程中必須乾淨，無灰塵、水分、油脂或其他污染物。



UPVC / CPVC PIPE FITTING VALVE

UPVC & CPVC 抗腐蝕工業用壓力管 安裝

凝固及固化時間

註 以下的凝固及固化時間為平均時間，係根據IPS Weld-On p-70(或 38 Calibre) 清潔劑及IPS Weld-on #717(45 Calibre)及/或IPS Weld-On#719(50 Calibre) 膠合劑接合Schedule 40及Schedule 80 UPVC管件；及IPS Weld-On #714(45 Calibre)接合Schedule 40及Schedule 80 CPVC管件。實際的凝固及固化時間將視管材質及所使用的膠合劑系統、管尺寸、溫度、相對濕度、壓力及接合緊度而定。

凝固時間：以下所示的初始凝固時間為處理新組裝接合前的建議等候時間。在初始凝固時間後，接合處可支撐正常安裝的壓力。(不當對準的安裝將在接合處、管及接頭處引起過多的壓力)

平均凝固時間

溫度 範圍	管尺寸 1/2"-1-1/4"	管尺寸 1-1/2"-2"	管尺寸 2-1/2"-8"	管尺寸 10"-15"	管尺寸 16"-24"
60°-100°F	2分鐘	5分鐘	30分鐘	2小時	4小時
40°-60°F	5分鐘	10分鐘	2小時	8小時	16小時
0°-40°F	10分鐘	15分鐘	12小時	24小時	48小時

固化時間：固化時間為新組裝接合處進行施壓前的建議等候時間。這時間將隨使用的膠合劑類型、管尺寸、接合、溫度、濕度及壓力而定。應謹慎地遵照適當的固化時間。在高濕度及/或寒冷天氣下應有較長的固化時間。

應避免在接頭及管內攪動膠合劑及清潔劑，以免引起材料過度軟化，且可能造成產品損壞。

炎熱天氣

以膠合劑黏合的管線產品在很多情況下將無法避免會處於95°F(35°C)或以上的溫度，但若採取一些特別的預防措施將可避免問題的產生。膠合劑含有高溫時蒸發速度更快的高強度溶劑，此種情況尤其在炎夏熱風吹拂下更為明顯。若管子直接暴露於陽光直射一段時間後，表面的溫度可能比空氣溫度高出20°F-30°F。尤其在接頭內，膠合

平均固化時間

相對濕度 60%或以下*	管尺寸 1/2"-1-1/4"	管尺寸 1-1/2"-2"	管尺寸 2-1/2"-8"	管尺寸 10"-15"	管尺寸 16"-24"
組裝及固化時間時的 溫度範圍	達160psi 160-370psi	達160psi 160-370psi	達160psi 160-315psi	達100psi 100-150psi	達100psi 100-150psi
60°-100°F	15分鐘	8小時	30分鐘	12小時	1-1/2小時
40°-60°F	20分鐘	12小時	45分鐘	24小時	4小時
0°-40°F	30分鐘	48小時	1小時	96小時	8日

註 在潮濕或濕度的天氣時可容許增加50%的固化時間。以上所示的時間僅為一種好意且建議僅供參考。此為根據實驗室測試資料，不可視為所有膠合劑製造商的建議。應遵守所使用的特定膠合劑之個別膠合劑製造商的建議。以上的固化時間係依據Net Fit 接頭的實驗室測試資料 (NET FIT是在乾接合時，管底在接頭管套內適度接合但未接觸到止動處)。更多資訊請洽膠合劑製造商。重要！安裝人員應在各種變動情況下可製作合格的接合，並且應接受安裝及安全注意事項的訓練。



UPVC / CPVC PIPE FITTING VALVE

UPVC & CPVC 抗腐蝕工業用壓力管 安裝

法蘭連接

法蘭接合可用於需經常拆卸的應用上。在內插套管、外插套管及各種不同款式的螺紋組態上提供有UPVC及CPVC法蘭，包括單片式法蘭及兩片式Van Stone式法蘭，此處螺紋環可在套殼內自由旋轉，使得組裝時容易對準螺紋孔。大多數的塑膠法蘭都可承受最大150 psi 於73°F 水中的工作壓力額定值。應注意選擇適當的墊圈材料，以確定其與輸送液體可相容。

法蘭螺栓應有足夠的緊度可稍微壓住墊圈，造成良好的密封，但不可太緊以避免法蘭變形。在螺紋頭與螺紋間應使用適當的墊片。應以對角線上的螺栓交替順序安裝。應遵照法蘭製造商組件指示，建議的螺栓扭力值，以及螺栓上緊的順序。

塑膠法蘭建議的法蘭螺栓扭力

法蘭尺寸 (英吋)	螺紋孔數	螺紋直徑 (英吋)	螺紋的最短長度 (英吋)	扭力 ft-lb PSI
1/2	4	1/2	2	10-15
3/4	4	1/2	2	10-15
1	4	1/2	2-1/4	10-15
1-1/4	4	1/2	2-1/4	10-15
1-1/2	4	1/2	2-1/2	20-30
2	4	5/8	3	20-30
2-1/2	4	5/8	3-1/4	20-30
3	4	5/8	3-1/4	20-30
4	8	5/8	3-1/2	20-30
6	8	3/4	4	30-50
8	8	3/4	4-1/2	30-50
10	12	7/8	5	50-80
12	12	7/8	5	80-100
14	12	1	5-1/2	100-120
16	16	1	6-1/2	100-120
18	16	1-1/8	4-1/8	100-120
20	20	1-1/8	5-1/2	100-120
24	20	1-1/4	5-1/2	100-120

螺栓扭力

建議的螺栓扭力如上所示。螺紋應保持乾淨且有良好的潤滑。實際的現場情況可能需改變這些建議值。

▲ 注意 沒有必要的過度上緊將會破壞法蘭。

墊圈

建議使用整面，1/8"厚度的彈性體並有雙股凸緣成型墊圈，且具有Shore「A」硬度測定計約70。

法蘭螺栓上緊順序



法蘭補充

應遵照法蘭與管接合時適當的膠合劑黏合及/或螺紋管件的程序。當法蘭與管接合後，接合兩個法蘭的方法如下：

- 與法蘭接合的管線必須在直線位置上對準法蘭安裝，以避免因未對準而在法蘭上產生壓力。管線必須固定及支撐，以避免橫向移動而產生壓力造成法蘭損壞。
- 墊圈放入定位後，轉動環至定位以對準接合法蘭的螺紋孔。
- 插入所有螺紋、墊片（每個螺紋兩個標準的平墊片）及螺帽。
- 確定接合面的表面在使用螺紋固定法蘭之前與墊圈齊平。
- 先用手上緊螺帽，並根據標示的螺帽上緊順序圖（以180度對面方向順序上緊），以5ft-lb 扭力增量上緊螺帽，使得法蘭面上可建立均勻的壓力。
- 當法蘭與「突出面」法蘭接合或與夾式（wafer-style）閥連接時，應注意避免「彎曲」法蘭。請勿使用螺紋將不當接合的法蘭固定。

指定的螺紋最小長度係根據公司製造的兩個法蘭、兩個標準平墊片、標準螺帽及1/8"厚度整面墊圈的使用。與其他廠牌的法蘭或配件可能需改變此長度。法蘭供應時並不隨附螺紋及墊圈。實際的現場狀況可能需改變這些建議值。以上的建議值視為一般的使用且僅供參考。應遵照法蘭管件製造商的組件指示，以確保最高的系統完整性。



UPVC / CPVC PIPE FITTING VALVE

UPVC & CPVC 抗腐蝕工業用壓力管 安裝

地面上安裝

熱漲冷縮

系統必須經過設計且安裝時必須彌補因熱漲冷縮所造成的移動，這對於室外應用的安裝及在環境溫度起伏較為明顯的無人居住建物內應用更需注意此熱漲冷縮的效應。例如，系統安裝於冬天月份內無人居住（亦即無暖氣）的建物，當溫度上升時將會明顯地膨脹。反之，若系統安裝於較高的環境溫度，安裝後溫度可能會大幅下降。此現象必須在正確的系統設計時列入考慮，以彌補管線因熱漲冷縮造成的移動現象。

室外應用

UPVC及CPVC在遵守正確的建議下都能在室外應用上得到滿意的結果。與其他管線一樣，在較低氣溫下應用時，必須保護系統避免結凍。可使用許多標準的低溫氣候的管線設計與安裝措施來保護系統以避免結凍，如使用管線包覆隔熱、加入抗凍液及熱追蹤帶等。使用前應洽詢這些產品的製造商以了解其產品是否適合或與UPVC及CPVC產品可相容。建議UPVC及CPVC產品若暴露於陽光直射（紫外線輻射）下，應塗上一層與UPVC/CPVC產品可化學性相容的淡色的壓克力或乳膠漆。應與油漆製造商確認產品的相容性。不建議使用油性漆。塗上漆後可明顯降低陽光直射的效應，但仍應考慮室外應用時因吸熱所產生的熱漲冷縮效果。使用淡色、反光漆塗層可降低此種效果，但系統設計及安裝方式仍需考慮熱漲的移動。

吊鉤與支架

吊鉤支架間距

適當的支架選擇及間距對於避免因重量負荷、彎曲應力、熱漲冷縮的效應產生的應力集中區域及限制管移動（下垂）很關鍵。與其他所有熱塑材料一樣，適當的管支架間距需視管尺寸、位置及集中的重量負荷大小，以及材料拉力及壓縮強度之溫度效應下所需的系統操作溫度而定。溫度增加時則需額外的支架。當於或靠近最高的建議溫度限制下操作時，則使用無粗糙或尖銳邊緣的結構角或槽，提供系統連續支撐較為經濟。安裝前也應諮詢當地建築法規以了解適用的規定。適當的支架間距可用類似金屬系統，用連續簡單的橫樑計算求得。使用材料最大的纖維應力，及根據材料長期模組在所選溫度下的變形為限制因素時可達成上述需求。

吊鉤選擇

許多為金屬管所設計的吊鉤適用於熱塑膠材料，但所使用的吊鉤及支架必須提供足夠的負荷承受表面，此表面必須平滑且無可能損壞管子的粗糙或尖銳邊緣。使用不當的支架可能使管子過度下垂而造成系統失效。必須考慮因溫度變化產生熱漲冷縮導致管子移動，以及因壓力變化所造成的移動，以確保正確的吊鉤選擇及配置。所使用的吊鉤及支架必須容許系統軸向上的移動，不會壓縮管子，否則將限制此方向的移動。

配置

在管接頭各側兩英尺內安裝適合的吊鉤為一般的做法；在方向改變時應儘可能靠近接頭的地方放置支架以減少拉伸的壓力。較重的系統管件如閥、法蘭組件、T型接管及其他集中應力負荷的其他形式必須獨立支撐。此外，閥必須使用托架充分支撐以避免因操作扭力而導致移動/應力負荷。也應考慮管線內有可能聚積固體微粒的某些過程。



UPVC / CPVC PIPE FITTING VALVE

UPVC & CPVC 抗腐蝕工業用壓力管

安裝

UPVC管支架間距 (英吋)

管尺寸 (英吋)	SCHEDULE 40					SCHEDULE 80					SCHEDULE 120				
	60°F	80°F	100°F	120°F	140°F	60°F	80°F	100°F	120°F	140°F	60°F	80°F	100°F	120°F	140°F
1/4	4	3-1/2	3-1/2	2	2	4	4	3-1/2	2-1/2	2					
3/8	4	4	3-1/2	2-1/2	2	4-1/2	4-1/2	4	2-1/2	2-1/2					
1/2	4-1/2	4-1/2	4	2-1/2	2-1/2	5	4-1/2	4-1/2	3	2-1/2	5	5	4-1/2	3	2-1/2
3/4	5	1/2	4	2-1/2	2-1/2	5-1/2	5	4-1/2	3	2-1/2	5-1/2	5	4-1/2	3	3
1	5-1/2	5	4-1/2	3	2-1/2	6	5-1/2	5	3-1/2	3	6	5-1/2	5	3-1/2	3
1-1/4	5-1/2	5-1/2	5	3	3	6	5-1/2	5-1/2	3-1/2	3	6-1/2	6	5-1/2	3-1/2	3-1/2
1-1/2	6	5-1/2	5	3-1/2	3	6-1/2	6	5-1/2	3-1/2	3-1/2	6-1/2	6-1/2	6	4	3-1/2
2	6	5-1/2	5	3-1/2	3	7	6-1/2	6	4	3-1/2	7-1/2	7	6-1/2	4	3-1/2
2-1/2	7	6-1/2	6	4	3-1/2	7-1/2	7-1/2	6-1/2	4-1/2	4	8	7-1/2	7	7-1/2	4
3	7	7	6	4	3-1/2	8	7-1/2	7	4-1/2	4	8-1/2	8	7-1/2	5	4-1/2
3-1/2	7-1/2	7	6-1/2	4	4	8-1/2	8	7-1/2	5	4-1/2	9	8-1/2	7-1/2	5	4-1/2
4	7-1/2	7	6-1/2	4-1/2	4	9	8-1/2	7-1/2	5	4-1/2	9-1/2	9	8-1/2	5-1/2	5
5	8	7-1/2	7	4-1/2	4	9-1/2	9	8	5-1/2	5	10-1/2	10	9	6	5-1/2
6	8-1/2	8	7-1/2	5	4-1/2	10	9-1/2	9	6	5	11-1/2	10-1/2	9-1/2	6-1/2	6
8	9	8-1/2	8	5	4-1/2	11	10-1/2	9-1/2	6-1/2	5-1/2					
10	10	9	8-1/2	5-1/2	5	12	11	10	7	8					
12	11-1/2	10-1/2	9-1/2	6-1/2	5-1/2	13	12	10-1/2	7-1/2	6-1/2					
14	12	11	10	7	6	13-1/2	13	11	8	7					
16	12-1/2	11-1/2	10-1/2	7-1/2	6-1/2	14	13-1/2	11-1/2	8-1/2	7-1/2					
18	13	12	11	8	7	14-1/2	14	12	11	9					
20	14	12-1/2	11-1/2	10	8-1/2	15-1/2	14-1/2	12-1/2	11-1/2	9-1/2					
24	15	13	12-1/2	11	9-1/2	17	15	14	12-1/2	10-1/2					
SDR 41						SDR 26									
18	13	12	11	8	7	14-1/2	14	12	9	8					
20	13-1/2	12-1/2	11-1/2	8-1/2	7-1/2	15	14-1/2	12-1/2	9-1/2	8-1/2					
24	15	13	12	9	8	15-1/2	15	13	10	9					

註：雖然顯示的支架間距為UPVC在140°F下的數據，但應考慮CPVC的使用或超過120°F的連續性支架。溫度超過一般工作溫度的可能性及成本因素，可能更需有其他的替代方式。本表係以連續跨距以及未隔熱管線輸送比重達1.00的液體為基礎。

CPVC管支架間距 (英吋)

管尺寸 (英吋)	SCHEDULE 40					SCHEDULE 80				
	73°F	100°F	120°F	140°F	160°F	73°F	100°F	120°F	140°F	160°F
1/2	5	4-1/2	4-1/2	4	2-1/2	5-1/2	5	4-1/2	4-1/2	3
3/4	5	5	4-1/2	4	2-1/2	5-1/2	5-1/2	5	4-1/2	3
1	5-1/2	5-1/2	5	4-1/2	3	6	6	5-1/2	5	3-1/2
1-1/4	5-1/2	5-1/2	5-1/2	5	3	6-1/2	6	6	5-1/2	3-1/2
1-1/2	6	6	5-1/2	5	3-1/2	7	6-1/2	6	5-1/2	3-1/2
2	6	6	5-1/2	5	3-1/2	7	7	6-1/2	6	4
2-1/2	7	7	6-1/2	6	4	8	7-1/2	7-1/2	6-1/2	4-1/2
3	7	7	7	6	4	8	8	7-1/2	7	4-1/2
3-1/2	7-1/2	7-1/2	7	6-1/2	4	8-1/2	8-1/2	8	7-1/2	5
4	7-1/2	7-1/2	7	6-1/2	4-1/2	8-1/2	9	8-1/2	7-1/2	5
6	8-1/2	8	7-1/2	7	5	10	9-1/2	9	8	5-1/2
8	9-1/2	9	8-1/2	7-1/2	5-1/2	11	10-1/2	10	9	6
10	10-1/2	10	9-1/2	8	6	11-1/2	11	10-1/2	9-1/2	6
12	11-1/2	10-1/2	10	8-1/2	6-1/2	12-1/2	12	11-1/2	10-1/2	6-1/2
14	12	11	10	9	8	15	13-1/2	12-1/2	11	9-1/2
16	13	12	11	9-1/2	8-1/2	16	15	13-1/2	12	10

註：雖然顯示的支架間距為UPVC在140°F下的數據，但應考慮CPVC的使用或超過120°F的連續性支架。溫度超過一般工作溫度的可能性及成本因素，可能更需有其他的替代方式。本表係以連續跨距以及未隔熱管線輸送比重達1.00的液體為基礎。



UPVC / CPVC PIPE FITTING VALVE

UPVC & CPVC 抗腐蝕工業用壓力管

工程與設計資料

溫度限制

UPVC

UPVC管產品係從I型，等級I的UPVC複合物與依ASTM D1784之單元(cell)分類製造而成。UPVC Schedule 40及Schedule 80管以此材料製造完全符合ASTM D1785，並且在材料、製造工藝、尺寸、壓力維持、爆破壓力、抗扁平及擠壓品質上持續符合或超越該標準的要求。

符合標準的UPVC管其最高操作溫度為140°F。與其他所有熱塑料一樣，溫度升高將會增加衝擊強度，降低抗拉強度及管子的韌度，因此需降低管子的額定值。符合上述參考標準的UPVC管的機械性質，依適用的ASTM材料進行例行性測試標準，以73°F進行測試並加以紀錄。當在較高的溫度下使用時，需使用適當的溫度降低額定因數以求得可容許的最大壓力。當在較高的溫度下作業時，產品於73°F時的工作壓力額定值需使用下列溫度降低額定因數加以修正：

將所選管子在73°F時的工作壓力額定值乘以適當的降低額定因數，以求得管子在所選用的較高溫度下的最大工作壓力。

例：10" UPVC SCHEDULE 80@120°F = ?

230 psi x 0.40 = 92 psi 最大

@120°F

UPVC 的最高使用溫度為140°F

溫度 (°F)	工作 降低額定因數
73	1.00
80	0.88
90	0.75
100	0.62
110	0.51
120	0.40
130	0.31
140	0.22

當於最高溫度或接近最高溫度下作業時，應使用黏合接頭。不建議超過110°F溫度時，UPVC管使用螺紋接頭。在高溫下必須拆卸的情況下，則應使用法蘭接頭、連接由令或壓接喉套(roll grooved couplings)。

文件上記載，當溫度低於73°F時抗拉強度及管子韌度值增加，因此可增加管子的耐壓能力及耐彎曲變形能力。但如同大多數材料一樣，抗衝擊及延展性在較冷溫度下會降低。此外，溫度降低將會引起管線收縮，此點在正確的系統設計上應列入考慮。因為UPVC的熱膨脹係數，20英呎的管子當溫度從95°F下降至5°F時，管子將收縮約3/4"。

因為耐壓能力不隨溫度下降而降低，若液體介質已避免結凍、熱漲冷縮的影響已列入考慮、搬運時特別注意及管理、系統的安裝及操作可避免因衝擊或其他機械力造成的實體損壞等情況下，UPVC管則適合於較低的溫度下使用。

應注意定期執行PVC管產品於73°F及32°F溫度下的摔落衝擊試驗。UPVC管於32°F相對於73°F的抗衝擊能力，將視管徑及產品的管壁而定。據我們所知，尚未執行確定試驗(definitive testing)以建立在較低溫度下，UPVC管尺寸/外觀尺寸整個範圍實際衝擊強度降低的精確比。

CPVC

CPVC管產品係從IV型，等級I的CPVC複合物與依ASTM D1784之單元(cell)分類製造而成。CPVC Schedule 40及Schedule 80管以此材料製造完全符合ASTM F441，並且在材料、製造工藝、尺寸、壓力維持、爆破壓力、抗扁平及擠壓品質上持續符合或超越該標準的要求。

符合標準的CPVC管其最高操作溫度為200°F。與其他所有熱塑料一樣，溫度升高將會增加衝擊強度，降低抗拉強度及管子的韌度，因此降低管子的額定值。符合上述參考標準的CPVC管的機械性質，均依適用的ASTM材料測試標準，以73°F進行例行性測試並加以紀錄。當在較高的溫度下應用時，則需使用適當的溫度降低額定因數，以求得可容許的最大壓力。當在較高的溫度下作業時，產品於73°F時的工作壓力額定值需使用下列溫度降低額定因數加以修正：

將所選管子在73°F時的工作壓力額定值乘以適當的降低額定因數，以求得管子在所選用的較高溫度下的最大工作壓力。	溫度 (°F)	工作 降低額定因數
例：10" CPVC SCHEDULE 80@120°F = 230 psi x 0.65 = 149.5 psi 最大@120°F	73-80	1.00
CPVC的最高使用溫度為200°F	90	0.91
	100	0.82
	110	0.72
	120	0.65
	130	0.57
	140	0.50
	150	0.42
	160	0.40
	170	0.29
	180	0.25
	200	0.20