

台灣第一品牌

PP-H 2016

PP-H
PP-H (FRP COATED)
PIPE / FITTING / VALVE / FLANGE

PRODUCTS ARE GOOD AT CORRASION / CHEMICAL RESISTANCE.



HI-TECH'S

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PP-H & PP-H(FRP COATED) PIPE/ FITTING/VALVE



THE HI-TECH's, HI-QUALITLY's PROUDCTS RANG

DURA FLOW

SHIE. YU



集團總裁 蔡添壽　　Chairman　TSAI TIEN-SHOU

經營理念

大發管材工業股份有限公司是屬於協羽工業集團旗下子公司，專業製造生產各種塑膠管及配件及閥門，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ISO9001認證及美國衛生協會認證之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合格廠。確保提供全球客戶高品質可靠的工業產品。

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、配件及閥們的專業領域上，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動力，我們以達成客戶滿意為最大目標，因此國內外客戶及各大知名工程公司及民營企業均成為我們長期客戶，並與國際知名品牌廠商建立OEM良好合作關係並大量生產供應。我們職志將 DFP 產品成為國際各種塑膠管、配件及閥門的優良品牌。產品群將滿足客戶獲得市場的肯定與禮讚。

創新研發

大發人本著精益求精精神，對現有產品持續改良，並也依據產品不同的使用場合的需要條件，對產品的材質作研發改善及結構的研發創新，以求使產品達到最佳的適用性以及客戶的滿意。特別我們擁有模具廠，內有完整的全套開模，硬體設備，更配合設計軟體及專業技術人員，配合研發團隊以快速精確模具設計以滿足客戶及市場的需求。再則我們也持續對研發相關配備、人員擴充，使我們的研發工作得以達到國際的水準。





Operation Philosophy

Dura Flow(DFP), a subsidiary of Shie Yu Machine, specializes in the production of valves, fittings, and pipes. Founded in 1972, Shie Yu has been devoting to chemical industry, electronic industry as well as public construction. Our production technology meets the international standard. Dura Flow currently has two manufacturing factories containing a total of 246 employees. To provide high quality of products to customers, all of our factories are certified by ISO(International Standard Organization) 9001, NSF(National Sanitation Foundation), and CNS(Chinese National Standards). In addition, Dura Flow is dedicated to being a global green service provider, so our factories are certified with the Green Mark.

With the principles of providing superior quality products and innovative technology as well as to satisfying the demands of our customers, Dura Flow provides perfect after-sales service and a variety of products in valves, fittings, and pipes to the customers in all of the world. Based on the professional knowledges on the pipes, fittings and valves to enhance the comprehensive chose to the customers.

Because of the sincere attitude and service, many famous engineering companies are willing to establish a long-term business relationship and also build the OEM cooperation with many world-brands to have the massive production supply. Our aim is to have +DFP+ become internationally well-known brand on the plastic pipes, fittings and vales. Dura Flow resolves to develop a superior service brand (DFP). We believe our products will be satisfied to customers and be gained a foothold in the market.

Innovation and R&D

The Dura Flow people based on the desire to provide better products, we continue to improve our existing products, and do R&D work on materials, innovation of product structure to meet the requirements for a wide variety of applications. We have our own in-house tooling department employing staff of experienced and skilled tool and die makers, and equipped with sophisticated and precise CAD/CAM machines for today's ever-changing market. In addition, we are dedicated to workforce performance and R&D work on related fittings to keep up with innovation.



大發營運總部
Dura Flow Oprational Headruarters.

產品四大特色

我們不斷增強現有產品群，競競業業的運用先進技術改變製程。已突破生產大尺寸塑膠蝶閥、逆止閥等及管材、配件，擁有業界需求完整的產品群。藉結合市場知識及我們的專業經驗、設計規劃及精確的製程能力，持續提供客戶最佳的產品，本公司產品擁有四大特色：

一、生產材質最齊全:有生產UPVC，HIW-PVC，CPVC(HT-PVC)，HD-PE，PP-H，ABS，PVDF等7種原料製造。不同原料、不同生產設備在同一生產廠生產目前世界唯一。

二、生產尺寸規格最大最齊全:生產尺寸UPVC1/2"～24"、HIW-PVC1/2"～24"、CPVC(HT-PVC)1/2"～24"、HD-PE § 12～ § 1200mm、PPH § 12～ § 1200mm、ABS § 12～ § 630mm、PVDF § 12～ § 800 mm，生產規格符合世界標準規格各國使用，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，或由客戶指定之特殊規格均可供應。

三、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。

四、產品特點
1.全世界超大型塑膠蝶閥28".32".36".40".48"製造採一體成型生產。並獲得台灣專利權及中國、日本、美國、韓國專利申請中。
2. UPVC.CPVC SCH80 14".16".18" 90L.45L、三通、直接射出成型品。

經過多方面技術超越提升，將塑膠閥壓力等級大大提高。部分產品由原來使用壓力10kg，提高至使用壓力15kg，對市場使用上一大創舉。

Four main product features

At the same time, we are continually adding to our existing comprehensive product line, actively taking advantage of advanced technique to improve process。We have made a breakthrough in production of large-sized thermoplastic valves, check valves, and pipes, fittings, making us the most complete product line for the industry demands. Our products own the 4 distinctive features:
The first feature : The complete production materials. Offering UPVC, HIW-PVC, CPVC, (HT-PVC), HD-PE, PP-H, ABS, PVDF several material products. The only company in the world which run the 7 different materials in one production site.

The second feature : The complete production sizes and the largest production size: The available production size : UPVC 1/2"-24", HIW-PVC: 1/2"-24", CPVC(HT-PVC) :1/2"-24", HD-PE : ϕ 12~ ϕ 1200mm, PPH : ϕ 12~ ϕ 1200mm, ABS, PVDF: ϕ 12~ ϕ 800mm. The production dimension standards : JIS (Japanese), ANSI SCH80, SCH40(American), DIN PN2.5~PN30(European), BS (British), and customer appointed special dimension is also available.

The third feature : One stop manufacturing supplier – Pipe, fittings and valves in manufacturer. We are providing the full customer demands.

The forth feature : Our product has the following special characters:
1. The world largest thermoplastic butterfly by one-piece molded for the sizes: 28", 32", 36", 40", 48" and owned patent in Taiwan, and under applying China, Japan, America, and Korea patent.
2. The largest UPVC, CPVC SCH80 14", 16"18"90D elbow, 45D elbow , Tee are in one-piece molded. Enhance our all around techniques, upgrade the thermoplastic valve pressure resistant rates. Some products have been up from 10kgf/cm to 15kgf/cm2. This is the pioneering task.

We provide our customers with the best products by integration of knowledge in today's marketplace, our business experience, innovation and precise production techniques.





連接技術

一向以”產品齊全、材質齊全、尺寸及規格齊全”，” 品質第一”，“ 技術領先”、”客戶滿意”為宗旨，由專業生產閥門到配件及直管一系列完整服務，進而受到設計公司及業界選用指定的第一品牌，要求達整廠產品供應及技術教學及施作，進而「心技合一」的增加工程公司安裝施工團隊，將施工的技術及服務內容加入營業目標連結，為達此目標，重視實務產品並提升整體工程人員技法、提供新技術或專業意見等，以合理的產品成本、高水準的施工技術、嚴密的品質管理及負責任的態度，整廠完整性服務。

工程橫跨各業界如化工業、半導體業、重大公共工程、電力相關工程、潛鑽工程、自來水工程、環境保護工程、廢水處理工程、鋼鐵酸洗業、及各式特殊工程等。產品精良齊全，為業界選用的第一品牌。

Technical Connection

The SHIE YU Group's principles – Full Completed Products, Full Completed Materials, the full completed dimension & standards, Quality First, Technique leading, we are from the professional valve manufacture then to the fittings and pipes the whole system materials as the No. 1 appointed brand by the engineering design companies and the supplier for the whole-plant materials, technical teaching and operations. Building the engineering installation company input the installation techniques and service to the business goals. We are taking care on the products and advance the engineers techniques, Introduce new techniques and professional opinions in order to reach the reasonable product cost , high standard installation techniques, strict quality management and responsible working attitude.

Our engineering works is covering of Chemical industries, Semi-conductor industries, public constructions, electricity constructions, digging constructions, and potable water industry , environmental protection engineering, waster water treatment, and steel acid-washing and etc special engineering. The most completed products and the top No.1 brand in the industry.



化學工業
Chemical Industry

電子半導體
Electronic / Semiconductor Idustry

國際參展
International Exhibitors

海水碼頭
Seawater Wharf

HD-PE自來水管
HD-PE Portable Water Relining

海水養殖場
Sea Farming Industry

火力發電廠使用
Thermal Power Plant





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，產品的物性做完全的檢測判定，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，一達全面優良產品為目標。

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.





新產品技術國際研討會議
The International New Product Technique Discussion Meeting

產品認證

產品通過認證如下：

- 全生產廠全部通過ISO 9001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	類號	產品名稱
4053-1	K3033-1	自來水用聚氯乙烯塑膠硬質管
1298	K3004	聚氯乙烯塑膠硬質管
1302	K3006	導電線用聚氯乙烯塑膠管
14345	K3114	耐衝擊硬質聚氯乙烯塑膠管
14664	K3121	氯化聚氯乙烯(CPVC)塑膠管
2456-2	K3012	自來水用聚氯乙烯塑膠管
2456-2	K3013	一般用高密度聚乙烯塑膠管
12835	K3097	天然氣用聚乙烯塑膠管
13158	K3102	自來水用丙烯-丁二烯-苯乙烯(ABS)塑膠管











Product Certification

Listed below are certifications honored for our products:

- All our factories have been honored with ISO 9001 Certification.
- One factory qualified for NSF certification.
- One factory honored with the environmental.
- Protection badge by the Environmental Protection Administration of the Executive Yuen.
- Listed below are 9 authentic marks certified by CNS:

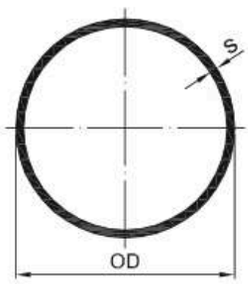
CNS General Number	Category Number	Product Name
4053-1	K3033-1	Tap Water Hardened PVC Pipe
1298	K3004	Hardened PVC Pipe
1302	K3006	Conductive Wire Hardened PVC Pipe
14345	K3114	Impact-resistant Hardened PVC Pipe
14664	K3121	CPVC Pipe
2456-2	K3012-2	Tap Water PE Pipe
2456-2	K3013-2	General Purpose HDPE Pipe
12835	K3097	Natural Gas PE Pipe
13158	K3102	Tap Water ABS Pipe

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PP-H/PIPE

DIN 8077/8078
Storage length:5m
(Special lengths on request)



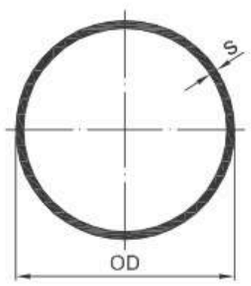
直管PP-H PIPE

DFP PIO

OD (mm)	Ventilation				SDR41 ISO S20 PN2.5			SDR33 ISO S16 PN3.2			SDR26 ISO S12.5 PN4		
	S (mm)	Weight (kg/m)	S (mm)	Weight (kg/m)	Code	S (mm)	Weight (kg/m)	Code	S (mm)	Weight (kg/m)	Code	S (mm)	Weight (kg/m)
10	-	-	-	-	-	-	-	-	-	-	-	-	-
12	-	-	-	-	-	-	-	-	-	-	-	-	-
16	-	-	-	-	-	-	-	-	-	-	-	-	-
20	-	-	-	-	-	-	-	-	-	-	-	-	-
25	-	-	-	-	-	-	-	-	-	-	-	-	-
32	-	-	-	-	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-	-	21-PIO-26-0040	1.8	0.22
50	-	-	-	-	-	-	-	21-PIO-33-0050	1.8	0.27	21-PIO-26-0050	2.0	0.30
63	-	-	-	-	21-PIO-41-0063	1.8	0.35	21-PIO-33-0063	2.0	0.39	21-PIO-26-0063	2.5	0.47
75	-	-	-	-	21-PIO-41-0075	1.9	0.44	21-PIO-33-0075	2.3	0.55	21-PIO-26-0075	2.9	0.65
90	-	-	-	-	21-PIO-41-0090	2.2	0.61	21-PIO-33-0090	2.8	0.76	21-PIO-26-0090	3.5	0.94
110	-	-	-	-	21-PIO-41-0110	2.7	0.9	21-PIO-33-0110	3.4	1.2	21-PIO-26-0110	4.2	1.4
125	-	-	-	-	21-PIO-41-0125	3.1	1.2	21-PIO-33-0125	3.9	1.5	21-PIO-26-0125	4.8	1.8
140	-	-	-	-	21-PIO-41-0140	3.5	1.5	21-PIO-33-0140	4.3	1.8	21-PIO-26-0140	5.4	2.2
160	-	-	-	-	21-PIO-41-0160	4.0	1.9	21-PIO-33-0160	4.9	2.4	21-PIO-26-0160	6.2	2.9
180	-	-	-	-	21-PIO-41-0180	4.4	2.4	21-PIO-33-0180	5.5	3.0	21-PIO-26-0180	6.9	3.7
200	-	-	-	-	21-PIO-41-0200	4.9	2.9	21-PIO-33-0200	6.2	3.7	21-PIO-26-0200	7.7	4.5
225	-	-	-	-	21-PIO-41-0225	5.5	3.7	21-PIO-33-0225	6.9	4.6	21-PIO-26-0225	8.6	5.7
250	-	-	-	-	21-PIO-41-0250	6.2	4.6	21-PIO-33-0250	7.7	5.7	21-PIO-26-0250	9.6	7.0
280	-	-	-	-	21-PIO-41-0280	6.9	5.7	21-PIO-33-0280	8.6	7.1	21-PIO-26-0280	10.7	8.8
315	-	-	-	-	21-PIO-41-0315	7.7	7.2	21-PIO-33-0315	9.7	9.0	21-PIO-26-0315	12.1	11.2
355	-	-	-	-	21-PIO-41-0355	8.7	9.1	21-PIO-33-0355	10.9	11.3	21-PIO-26-0355	13.6	14.1
400	6.0	7.2	8.0	9.7	21-PIO-41-0400	9.8	11.6	21-PIO-33-0400	12.3	14.4	21-PIO-26-0400	15.3	17.7
450	6.0	8.2	8.0	11.0	21-PIO-41-0450	11.0	14.7	21-PIO-33-0450	13.8	18.2	21-PIO-26-0450	17.2	22.4
500	8.0	11.9	10.0	15.1	21-PIO-41-0500	12.3	18.0	21-PIO-33-0500	15.3	22.3	21-PIO-26-0500	19.1	27.6
560	8.0	13.4	-	-	21-PIO-41-0560	13.7	22.6	21-PIO-33-0560	17.2	28.1	21-PIO-26-0560	21.4	34.6
630	10.0	18.8	-	-	21-PIO-41-0630	15.4	28.6	21-PIO-33-0630	19.3	35.5	21-PIO-26-0630	24.1	43.9
710	12.0	25.3	-	-	21-PIO-41-0710	17.4	36.4	21-PIO-33-0710	21.8	45.2	21-PIO-26-0710	27.2	55.8
800	12.0	28.6	-	-	21-PIO-41-0800	19.6	46.1	21-PIO-33-0800	24.5	57.2	21-PIO-26-0800	30.6	70.8
900	15.0	40.2	-	-	21-PIO-41-0900	22.0	58.1	21-PIO-33-0900	27.6	72.5	21-PIO-26-0900	34.4	89.4
1000	15.0	44.7	-	-	21-PIO-41-1000	24.5	72.0	21-PIO-33-1000	30.6	89.2	21-PIO-26-1000	38.2	110.0
1200	18.0	64.1	-	-	21-PIO-41-1200	29.4	103.3	21-PIO-33-1200	36.7	128.0	21-PIO-26-1200	45.9	160.0

PP-H/PIPE

DIN 8077/8078
Storage length:5m
(Special lengths on request)



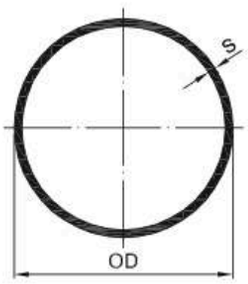
直管PP-H PIPE

DFP PIO

OD (mm)	Ventilation				SDR17.6 ISO S8.3 PN6			SDR11 ISO S5 PN10			SDR7.4 ISO S3.2 PN16		
	S (mm)	Weight (kg/m)	S (mm)	Weight (kg/m)	Code	S (mm)	Weight (kg/m)	Code	S (mm)	Weight (kg/m)	Code	S (mm)	Weight (kg/m)
10	-	-	-	-	-	-	-	-	-	-	21-PIO-07-0010	1.8	0.05
12	-	-	-	-	-	-	-	-	-	-	21-PIO-07-0012	1.8	0.06
16	-	-	-	-	-	-	-	21-PIO-11-0016	1.8	0.08	21-PIO-07-0016	2.3	0.10
20	-	-	-	-	21-PIO-17-0020	1.8	0.10	21-PIO-11-0020	1.9	0.14	21-PIO-07-0020	2.8	0.15
25	-	-	-	-	21-PIO-17-0025	1.8	0.13	21-PIO-11-0025	2.3	0.19	21-PIO-07-0025	3.5	0.23
32	-	-	-	-	21-PIO-17-0032	2.0	0.18	21-PIO-11-0032	2.9	0.27	21-PIO-07-032	4.5	0.38
40	-	-	-	-	21-PIO-17-0040	2.3	0.27	21-PIO-11-0040	3.7	0.41	21-PIO-07-0040	5.6	0.58
50	-	-	-	-	21-PIO-17-0050	2.9	0.42	21-PIO-11-0050	4.6	0.64	21-PIO-07-0050	6.9	0.90
63	-	-	-	-	21-PIO-17-0063	3.6	0.66	21-PIO-11-0063	5.8	1.0	21-PIO-07-0063	8.6	1.4
75	-	-	-	-	21-PIO-17-0075	4.3	0.94	21-PIO-11-0075	6.8	1.4	21-PIO-07-0075	10.3	2.0
90	-	-	-	-	21-PIO-17-0090	5.1	1.3	21-PIO-11-0090	8.2	2.0	21-PIO-07-0090	12.3	2.9
110	-	-	-	-	21-PIO-17-0110	6.3	2.0	21-PIO-11-0110	10.0	3.0	21-PIO-07-0110	15.1	4.3
125	-	-	-	-	21-PIO-17-0125	7.1	2.6	21-PIO-11-0125	11.4	3.9	21-PIO-07-0125	17.1	5.5
140	-	-	-	-	21-PIO-17-0140	8.0	3.2	21-PIO-11-0140	12.7	4.9	21-PIO-07-0140	19.2	6.9
160	-	-	-	-	21-PIO-17-0160	9.1	4.2	21-PIO-11-0160	14.6	6.4	21-PIO-07-0160	21.9	9.0
180	-	-	-	-	21-PIO-17-0180	10.2	5.2	21-PIO-11-0180	16.4	8.1	21-PIO-07-0180	24.83	11.13
200	-	-	-	-	21-PIO-17-0200	11.4	6.5	21-PIO-11-0200	18.2	9.9	21-PIO-07-0200	27.47	13.69
225	-	-	-	-	21-PIO-17-0225	12.8	8.2	21-PIO-11-0225	20.5	12.6	21-PIO-07-0225	31.03	17.39
250	-	-	-	-	21-PIO-17-0250	14.2	10.1	21-PIO-11-0250	22.7	15.5	21-PIO-07-0250	34.48	21.47
280	-	-	-	-	21-PIO-17-0280	15.9	12.6	21-PIO-11-0280	25.4	19.5	21-PIO-07-0280	38.62	26.93
315	-	-	-	-	21-PIO-17-0315	17.9	16.0	21-PIO-11-0315	28.6	24.6	21-PIO-07-0315	43.45	34.08
355	-	-	-	-	21-PIO-17-0355	20.1	20.3	21-PIO-11-0355	32.2	31.2	-	-	-
400	6.0	7.2	8.0	9.7	21-PIO-17-0400	22.7	25.7	21-PIO-11-0400	36.3	39.6	-	-	-
450	6.0	8.2	8.0	11.0	21-PIO-17-0450	25.5	32.5	21-PIO-11-0450	40.9	50.2	-	-	-
500	8.0	11.9	10.0	15.1	21-PIO-17-0500	28.3	40.1	21-PIO-11-0500	45.4	61.8	-	-	-
560	8.0	13.4	-	-	21-PIO-17-0560	31.7	50.3	21-PIO-11-0560	50.9	80.8	-	-	-
630	10.0	18.8	-	-	21-PIO-17-0630	35.7	63.7	21-PIO-11-0630	57.2	102.2	-	-	-
710	12.0	25.3	-	-	21-PIO-17-0710	40.2	80.8	21-PIO-11-0710	64.5	129.6	-	-	-
800	12.0	28.6	-	-	21-PIO-17-0800	45.3	103.0	21-PIO-11-0800	72.7	168.0	-	-	-
900	15.0	40.2	-	-	21-PIO-17-0900	51.1	132.8	21-PIO-11-0900	81.8	121.6	-	-	-
1000	15.0	44.7	-	-	21-PIO-17-1000	56.8	163.4	21-PIO-11-1000	90.9	262.0	-	-	-
1200	18.0	64.1	-	-	21-PIO-17-1200	68.2	237.7	21-PIO-11-1200	109.0	380.2	-	-	-

PP-R PIPE

DIN 8077/8078
Storage length:5m
(Special lengths on request)



直管PP-R

DFP PIO

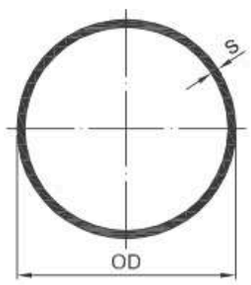
OD (mm)	Ventilation				SDR41 ISO S20 PN2.5			SDR33 ISO S16 PN3.2			SDR26 ISO S12.5 PN4		
	S (mm)	Weight (kg/m)	S (mm)	Weight (kg/m)	Code	S (mm)	Weight (kg/m)	Code	S (mm)	Weight (kg/m)	Code	S (mm)	Weight (kg/m)
10	-	-	-	-	-	-	-	-	-	-	-	-	-
12	-	-	-	-	-	-	-	-	-	-	-	-	-
16	-	-	-	-	-	-	-	-	-	-	-	-	-
20	-	-	-	-	-	-	-	-	-	-	-	-	-
25	-	-	-	-	-	-	-	-	-	-	-	-	-
32	-	-	-	-	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-	-	21-PIO-26-0040	1.8	0.22
50	-	-	-	-	-	-	-	21-PIO-33-0050	1.8	0.27	21-PIO-26-0050	2.0	0.30
63	-	-	-	-	21-PIO-41-0063	1.8	0.35	21-PIO-33-0063	2.0	0.39	21-PIO-26-0063	2.5	0.47
75	-	-	-	-	21-PIO-41-0075	1.9	0.44	21-PIO-33-0075	2.3	0.55	21-PIO-26-0075	2.9	0.65
90	-	-	-	-	21-PIO-41-0090	2.2	0.61	21-PIO-33-0090	2.8	0.76	21-PIO-26-0090	3.5	0.94
110	-	-	-	-	21-PIO-41-0110	2.7	0.9	21-PIO-33-0110	3.4	1.2	21-PIO-26-0110	4.2	1.4
125	-	-	-	-	21-PIO-41-0125	3.1	1.2	21-PIO-33-0125	3.9	1.5	21-PIO-26-0125	4.8	1.8
140	-	-	-	-	21-PIO-41-0140	3.5	1.5	21-PIO-33-0140	4.3	1.8	21-PIO-26-0140	5.4	2.2
160	-	-	-	-	21-PIO-41-0160	4.0	1.9	21-PIO-33-0160	4.9	2.4	21-PIO-26-0160	6.2	2.9
180	-	-	-	-	21-PIO-41-0180	4.4	2.4	21-PIO-33-0180	5.5	3.0	21-PIO-26-0180	6.9	3.7
200	-	-	-	-	21-PIO-41-0200	4.9	2.9	21-PIO-33-0200	6.2	3.7	21-PIO-26-0200	7.7	4.5
225	-	-	-	-	21-PIO-41-0225	5.5	3.7	21-PIO-33-0225	6.9	4.6	21-PIO-26-0225	8.6	5.7
250	-	-	-	-	21-PIO-41-0250	6.2	4.6	21-PIO-33-0250	7.7	5.7	21-PIO-26-0250	9.6	7.0
280	-	-	-	-	21-PIO-41-0280	6.9	5.7	21-PIO-33-0280	8.6	7.1	21-PIO-26-0280	10.7	8.8
315	-	-	-	-	21-PIO-41-0315	7.7	7.2	21-PIO-33-0315	9.7	9.0	21-PIO-26-0315	12.1	11.2
355	-	-	-	-	21-PIO-41-0355	8.7	9.1	21-PIO-33-0355	10.9	11.3	21-PIO-26-0355	13.6	14.1
400	6.0	7.2	8.0	9.7	21-PIO-41-0400	9.8	11.6	21-PIO-33-0400	12.3	14.4	21-PIO-26-0400	15.3	17.7
450	6.0	8.2	8.0	11.0	21-PIO-41-0450	11.0	14.7	21-PIO-33-0450	13.8	18.2	21-PIO-26-0450	17.2	22.4
500	8.0	11.9	10.0	15.1	21-PIO-41-0500	12.3	18.0	21-PIO-33-0500	15.3	22.3	21-PIO-26-0500	19.1	27.6
560	8.0	13.4	-	-	21-PIO-41-0560	13.7	22.6	21-PIO-33-0560	17.2	28.1	21-PIO-26-0560	21.4	34.6
630	10.0	18.8	-	-	21-PIO-41-0630	15.4	28.6	21-PIO-33-0630	19.3	35.5	21-PIO-26-0630	24.1	43.9
710	12.0	25.3	-	-	21-PIO-41-0710	17.4	36.4	21-PIO-33-0710	21.8	45.2	21-PIO-26-0710	27.2	55.8
800	12.0	28.6	-	-	21-PIO-41-0800	19.6	46.1	21-PIO-33-0800	24.5	57.2	21-PIO-26-0800	30.6	70.8
900	15.0	40.2	-	-	21-PIO-41-0900	22.0	58.1	21-PIO-33-0900	27.6	72.5	21-PIO-26-0900	34.4	89.4
1000	15.0	44.7	-	-	21-PIO-41-1000	24.5	72	21-PIO-33-1000	30.6	89.2	21-PIO-26-1000	38.2	110.0
1200	18.0	64.4	-	-	21-PIO-41-1200	29.4	103	21-PIO-33-1200	36.7	128.0	21-PIO-26-1200	45.9	160.0

PP-R PIPE

acc.to ONORM B 5174
DIN 8077/8078
Storage length:5m
(Special lengths on request)

直管PP-R

DFP PIO

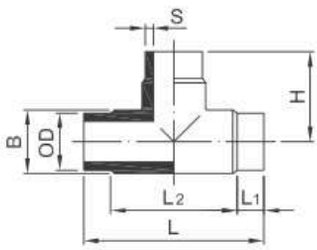


OD (mm)	Ventilation				SDR17.6 ISO S8.3 PN6			SDR11 ISO S5 PN10			SDR7.4 ISO S3.2 PN16		
	S (mm)	Weight (kg/m)	S (mm)	Weight (kg/m)	Code	S (mm)	Weight (kg/m)	Code	S (mm)	Weight (kg/m)	Code	S (mm)	Weight (kg/m)
10	-	-	-	-	-	-	-	-	-	-	21-PIO-07-0010	1.8	0.05
12	-	-	-	-	-	-	-	-	-	-	21-PIO-07-0012	1.8	0.06
16	-	-	-	-	-	-	-	21-PIO-11-0016	1.8	0.08	21-PIO-07-0016	2.3	0.10
20	-	-	-	-	21-PIO-17-0020	1.8	0.10	21-PIO-11-0020	1.9	0.11	21-PIO-07-0020	2.8	0.15
25	-	-	-	-	21-PIO-17-0025	1.8	0.13	21-PIO-11-0025	2.3	0.16	21-PIO-07-0025	3.5	0.23
32	-	-	-	-	21-PIO-17-0032	2.0	0.18	21-PIO-11-0032	2.9	0.27	21-PIO-07-032	4.5	0.38
40	-	-	-	-	21-PIO-17-0040	2.3	0.27	21-PIO-11-0040	3.7	0.41	21-PIO-07-0040	5.6	0.58
50	-	-	-	-	21-PIO-17-0050	2.9	0.42	21-PIO-11-0050	4.6	0.64	21-PIO-07-0050	6.9	0.90
63	-	-	-	-	21-PIO-17-0063	3.6	0.66	21-PIO-11-0063	5.8	1.0	21-PIO-07-0063	8.6	1.4
75	-	-	-	-	21-PIO-17-0075	4.3	0.94	21-PIO-11-0075	6.8	1.4	21-PIO-07-0075	10.3	2.0
90	-	-	-	-	21-PIO-17-0090	5.1	1.3	21-PIO-11-0090	8.2	2.0	21-PIO-07-0090	12.3	2.9
110	-	-	-	-	21-PIO-17-0110	6.3	2.0	21-PIO-11-0110	10.0	3.0	21-PIO-07-0110	15.1	4.3
125	-	-	-	-	21-PIO-17-0125	7.1	2.6	21-PIO-11-0125	11.4	3.9	21-PIO-07-0125	17.1	5.5
140	-	-	-	-	21-PIO-17-0140	8.0	3.2	21-PIO-11-0140	12.7	4.9	21-PIO-07-0140	19.2	6.9
160	-	-	-	-	21-PIO-17-0160	9.1	4.2	21-PIO-11-0160	14.6	6.4	21-PIO-07-0160	21.9	9.0
180	-	-	-	-	21-PIO-17-0180	10.2	5.2	21-PIO-11-0180	16.4	8.1	21-PIO-07-0180	24.83	11.13
200	-	-	-	-	21-PIO-17-0200	11.4	6.5	21-PIO-11-0200	18.2	9.9	21-PIO-07-0200	27.47	13.69
225	-	-	-	-	21-PIO-17-0225	12.8	8.2	21-PIO-11-0225	20.5	12.6	21-PIO-07-0225	31.03	17.39
250	-	-	-	-	21-PIO-17-0250	14.2	10.1	21-PIO-11-0250	22.7	15.5	21-PIO-07-0250	34.48	21.47
280	-	-	-	-	21-PIO-17-0280	15.9	12.6	21-PIO-11-0280	25.4	19.5	21-PIO-07-0280	38.62	26.93
315	-	-	-	-	21-PIO-17-0315	17.9	16.0	21-PIO-11-0315	28.6	24.6	21-PIO-07-0315	43.45	34.08
355	-	-	-	-	21-PIO-17-0355	20.1	20.3	21-PIO-11-0355	32.2	31.2	-	-	-
400	6.0	7.2	8.0	9.7	21-PIO-17-0400	22.7	25.7	21-PIO-11-0400	36.3	39.6	-	-	-
450	6.0	8.2	8.0	11.0	21-PIO-17-0450	25.5	32.5	21-PIO-11-0450	40.9	50.2	-	-	-
500	8.0	11.9	10.0	15.1	21-PIO-17-0500	28.3	40.1	21-PIO-11-0500	45.4	61.8	-	-	-
560	8.0	13.4	-	-	21-PIO-17-0560	31.7	50.3	21-PIO-11-0560	50.9	80.8	-	-	-
630	10.0	18.8	-	-	21-PIO-17-0630	35.7	63.7	21-PIO-11-0630	57.2	102.2	-	-	-
710	12.0	25.3	-	-	21-PIO-17-0710	40.2	80.8	21-PIO-11-0710	64.5	129.6	-	-	-
800	12.0	28.6	-	-	21-PIO-17-0800	45.3	103.0	21-PIO-11-0800	72.7	168.0	-	-	-
900	15.0	40.2	-	-	21-PIO-17-0900	51.1	132.8	21-PIO-11-0900	81.8	212.6	-	-	-
1000	15.0	44.7	-	-	21-PIO-17-1000	56.8	163.4	21-PIO-11-1000	90.9	262.0	-	-	-
1200	18.0	64.1	-	-	21-PIO-17-1200	68.2	237.7	21-PIO-11-1200	109.0	380.2	-	-	-

PP-H TEE

reinforced
for butt welding
molded from PP-H

對接正三通
DFP TT1



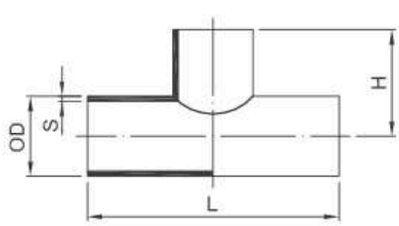


OD (mm)	H (mm)	L (mm)	L1 (mm)	L2 (mm)	B (mm)	SDR17.6 ISO S8.3 PN6		SDR11 ISO S5 PN10		SDR7.4 ISO S3.2 PN16	
						Code	S (mm)	Code	S (mm)	Code	S (mm)
20	42	84	20	40.0	21.0	-	-	21-TT1-11-0020	2.5	21-TT1-07-0020	2.8
25	47	95	20	50.0	26.0	-	-	21-TT1-11-0025	2.7	21-TT1-07-0025	3.5
32	51	100	20	55.0	33.4	-	-	21-TT1-11-0032	3.0	21-TT1-07-0032	4.5
40	53	105	20	71.5	42.0	-	-	21-TT1-11-0040	3.7	21-TT1-07-0040	5.6
50	64	123	25	76.0	52.0	21-TT1-17-0050	2.9	21-TT1-11-0050	4.6	21-TT1-07-0050	6.9
63	75	146	25	96.0	65.0	21-TT1-17-0063	3.6	21-TT1-11-0063	5.8	21-TT1-07-0063	8.7
75	86	171	25	120.0	76.8	21-TT1-17-0075	4.3	21-TT1-11-0075	6.9	21-TT1-07-0075	10.4
90	91.75	199	36	117.0	93.5	21-TT1-17-0090	5.1	21-TT1-11-0090	8.2	21-TT1-07-0090	12.5
110	110.5	238	48	148.5	114.0	21-TT1-17-0110	6.3	21-TT1-11-0110	10.0	21-TT1-07-0110	15.2
125	135.5	272	52	169.0	133.0	21-TT1-17-0125	7.1	21-TT1-11-0125	11.4	-	-
140	126	352	83.4	182.0	150.0	21-TT1-17-0140	8.0	21-TT1-11-0140	12.8	-	-
160	137	370	84.5	204.0	170.0	21-TT1-17-0160	9.1	21-TT1-11-0160	14.6	-	-
180	180	360	57	247.0	190.0	21-TT1-17-0180	10.2	21-TT1-11-0180	16.4	-	-
200	188.5	380	57	266.0	210.0	21-TT1-17-0200	11.4	21-TT1-11-0200	18.2	-	-
225	241	484	102.5	260.0	235.0	21-TT1-17-0020	12.8	21-TT1-11-0020	20.5	-	-
250	232.5	468	70	328.0	262.0	21-TT1-17-0250	14.2	21-TT1-11-0250	22.8	-	-
280	257	514	70	374.0	284.0	21-TT1-17-0280	15.9	21-TT1-11-0280	25.5	-	-
315	275	550	70	410.0	331.0	21-TT1-17-0315	17.9	21-TT1-11-0315	28.7	-	-

PP-H TEE

(Fabricated)
for butt welding
molded from PP-H

手工對接正三通
DFP TT4



OD (mm)	H (mm)	L (mm)	SDR33 ISO S16 PN3.2		SDR26 ISO S12.5 PN4		SDR17.6 ISO S8.3 PN6		SDR11 ISO S5 PN10	
			Code	S (mm)	Code	S (mm)	Code	S (mm)	Code	S (mm)
355	362.5	725	21-TT4-33-0355	11.1	21-TT4-26-0355	13.7	21-TT4-17-0355	20.1	21-TT4-11-0355	32.3
400	410	820	21-TT4-33-0400	12.4	21-TT4-26-0400	15.4	21-TT4-17-0400	22.7	21-TT4-11-0400	36.4
450	460	920	21-TT4-33-0450	14.0	21-TT4-26-0450	17.4	21-TT4-17-0450	25.5	21-TT4-11-0450	41.0
500	510	1020	21-TT4-33-0500	15.5	21-TT4-26-0500	19.3	21-TT4-17-0500	28.3	21-TT4-11-0500	45.5
560	570	1140	21-TT4-33-0560	17.4	21-TT4-26-0560	21.6	21-TT4-17-0560	31.7	21-TT4-11-0560	50.9
630	640	1280	21-TT4-33-0630	19.6	21-TT4-26-0630	24.3	21-TT4-17-0630	35.7	21-TT4-11-0630	57.2
710	720	1440	21-TT4-33-0710	22.1	21-TT4-26-0710	27.4	21-TT4-17-0710	40.2	21-TT4-11-0710	64.5
800	810	1620	21-TT4-33-0800	24.9	21-TT4-26-0800	30.8	21-TT4-17-0800	45.5	21-TT4-11-0800	72.7
900	910	1820	21-TT4-33-0900	28.0	21-TT4-26-0900	34.7	21-TT4-17-0900	51.2	21-TT4-11-0900	81.8
1000	1020	2040	21-TT4-33-1000	31.1	21-TT4-26-1000	38.5	21-TT4-17-1000	56.8	21-TT4-11-1000	90.9
1200	1220	2440	21-TT4-33-1200	36.7	21-TT4-26-1200	45.9	21-TT4-17-1200	68.1	21-TT4-11-1200	109.0

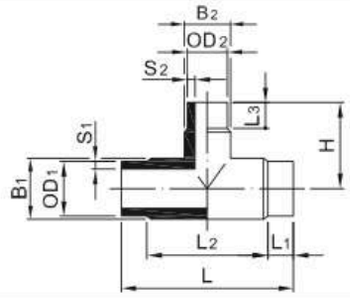
手工製品(Fabricated)

PP-H REDUCED TEE

for butt welding
molded from PP-H

對接異徑三通

DFP TR1





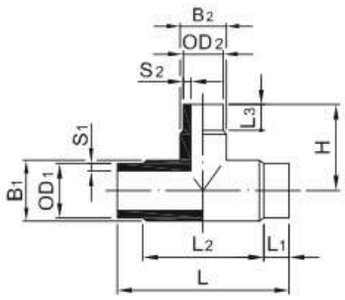
OD1/OD2 (mm)	H (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	B1 (mm)	B2 (mm)	SDR17.6 ISO S8.3 PN6		SDR11 ISO S5 PN10	
								Code	S1/S2 (mm)	Code	S1/S2 (mm)
63-32	68.5	124	26	72	26	65.0	33.4	21-TR1-17-063032	3.6/1.9	21-TR1-11-063032	5.8/3.0
63-50	68.5	124	26	72	26	65.0	52.0	21-TR1-17-063050	3.6/2.9	21-TR1-11-063050	5.8/4.6
75-50	74.5	127	26	75	26	76.8	52.0	21-TR1-17-075050	4.3/2.9	21-TR1-11-075050	6.9/4.6
75-63	74.5	127	26	75	26	76.8	65.0	21-TR1-17-075063	4.3/3.6	21-TR1-11-075063	6.9/5.8
90-63	85.2	153.8	26	101.8	26	93.5	65.0	21-TR1-17-090063	5.1/3.6	21-TR1-11-090063	8.2/5.8
90-75	85.2	153.8	26	101.8	26	93.5	76.8	21-TR1-17-090075	5.1/4.3	21-TR1-11-090075	8.2/6.9
▲110-32	101	218	-	-	-	-	-	21-TR1-17-110032	6.3/1.9	21-TR1-11-110032	10.0/3.0
▲110-40	101	218	-	-	-	-	-	21-TR1-17-110040	6.3/2.3	21-TR1-11-110040	10.0/3.7
▲110-50	101	218	-	-	-	-	-	21-TR1-17-110050	6.3/2.9	21-TR1-11-110050	10.0/4.6
110-63	101	218	30	158	26	114	65.0	21-TR1-17-110063	6.3/3.6	21-TR1-11-110063	10.0/5.8
▲110-75	101	218	-	-	-	-	-	21-TR1-17-110075	6.3/4.3	21-TR1-11-110075	10.0/6.9
110-90	101	218	30	158	29	114	93.5	21-TR1-17-110090	6.3/5.1	21-TR1-11-110090	10.0/8.2
▲125-40	106	214	-	-	-	-	-	21-TR1-17-125040	7.1/2.3	21-TR1-11-125040	11.4/3.7
▲125-50	106	214	-	-	-	-	-	21-TR1-17-125050	7.1/2.9	21-TR1-11-125050	11.4/4.6
▲125-63	106	214	35	144	26	130	65.0	21-TR1-17-125063	7.1/3.6	21-TR1-11-125063	11.4/5.8
125-75	106	214	35	144	26	130	76.8	21-TR1-17-125075	7.1/4.3	21-TR1-11-125075	11.4/6.9
125-90	106	214	35	144	26	130	93.5	21-TR1-17-125090	7.1/5.1	21-TR1-11-125090	11.4/8.2
125-110	106	214	35	144	30	130	114.0	21-TR1-17-125110	7.1/6.3	21-TR1-11-125110	11.4/10.0
▲140-50	114	214	-	-	-	-	-	21-TR1-17-140050	8.0/2.9	21-TR1-11-140050	12.8/4.6
▲140-63	114	214	35	144	26	146	65.0	21-TR1-17-140063	8.0/3.6	21-TR1-11-140063	12.8/5.8
140-75	114	214	35	144	26	146	76.8	21-TR1-17-140075	8.0/4.3	21-TR1-11-140075	12.8/6.9
140-90	114	214	35	144	26	146	93.5	21-TR1-17-140090	8.0/5.1	21-TR1-11-140090	12.8/8.2
140-110	114	214	35	144	30	146	114.0	21-TR1-17-140110	8.0/6.3	21-TR1-11-140110	12.8/10.0
140-125	114	214	-	-	-	-	-	21-TR1-17-140125	8.0/7.1	21-TR1-11-140125	12.8/11.4
▲160-63	126	286	35	144	26	167	65.0	21-TR1-17-160063	9.1/3.6	21-TR1-11-160063	14.6/5.8
▲160-75	126	286	-	-	-	-	-	21-TR1-17-160075	9.1/4.3	21-TR1-11-160075	14.6/6.9
160-90	133	286	35	144	26	167	93.5	21-TR1-17-160090	9.1/5.1	21-TR1-11-160090	14.6/8.2
160-110	133	286	35	144	29	167	114.0	21-TR1-17-160110	9.1/6.3	21-TR1-11-160110	14.6/10.0
160-125	133	286	-	-	-	-	-	21-TR1-17-160125	9.1/7.1	21-TR1-11-160125	14.6/11.4
160-140	133	286	-	-	-	-	-	21-TR1-17-160140	9.1/8.0	21-TR1-11-160140	14.6/12.8
▲180-63	144	220	35	150	26	188	65.0	21-TR1-17-180063	10.2/3.6	21-TR1-11-180063	16.4/5.8
▲180-75	144	220	35	150	26	188	76.8	21-TR1-17-180075	10.2/4.3	21-TR1-11-180075	16.4/6.9
180-90	144	220	35	150	26	188	93.5	21-TR1-17-180090	10.2/5.1	21-TR1-11-180090	16.4/8.2
180-110	144	220	35	150	30	188	114.0	21-TR1-17-180110	10.2/6.3	21-TR1-11-180110	16.4/10.0
180-125	144	220	35	150	35	188	130.0	21-TR1-17-180125	10.2/7.1	21-TR1-11-180125	16.4/11.4
▲180-140	144	220	-	-	-	-	-	21-TR1-17-180140	10.2/8.0	21-TR1-11-180140	16.4/12.8
▲180-160	144	220	-	-	-	-	-	21-TR1-17-180160	10.2/9.1	21-TR1-11-180160	16.4/14.6

▲ 轉接品(Transition)

PP-H
REDUCED TEE

for butt welding
molded from PP-H

對接異徑三通
DFP TR1





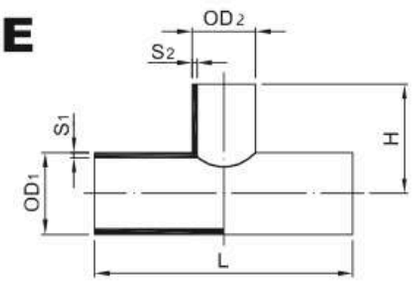
OD1/OD2 (mm)	H (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	B1 (mm)	B2 (mm)	SDR17.6 ISO S8.3 PN6		SDR11 ISO S5 PN10	
								Code	S1/S2 (mm)	Code	S1/S2 (mm)
▲ 200-63	157.0	273	35	203	26	208	65.0	21-TR1-17-200063	11.4/3.6	21-TR1-11-200063	18.2/5.8
▲ 200-90	157.0	273	35	203	26	208	93.5	21-TR1-17-200090	11.4/5.1	21-TR1-11-200090	18.2/8.2
200-110	157.0	273	35	203	30	208	114.0	21-TR1-17-200110	11.4/6.3	21-TR1-11-200110	18.2/10.0
200-125	157.0	273	35	203	35	208	130.0	21-TR1-17-200125	11.4/7.1	21-TR1-11-200125	18.2/11.4
200-140	157.0	273	35	203	35	208	146.0	21-TR1-17-200140	11.4/8.0	21-TR1-11-200140	18.2/12.8
200-160	157.0	273	35	203	35	208	167.0	21-TR1-17-200160	11.4/9.1	21-TR1-11-200160	18.2/14.6
200-180	157.0	273	-	-	-	-	-	21-TR1-17-200180	11.4/10.2	21-TR1-11-200180	18.2/16.4
▲ 225-75	171.5	306	40	226	26	235	76.8	21-TR1-17-225075	12.8/4.3	21-TR1-11-225075	20.5/6.9
▲ 225-90	171.5	306	40	226	26	235	93.5	21-TR1-17-225090	12.8/5.1	21-TR1-11-225090	20.5/8.2
▲225-110	171.5	306	40	226	30	235	114.0	21-TR1-17-225110	12.8/6.3	21-TR1-11-225110	20.5/10.0
225-125	171.5	306	40	226	35	235	130.0	21-TR1-17-225125	12.8/7.1	21-TR1-11-225125	20.5/11.4
▲225-140	171.5	306	-	-	-	-	-	21-TR1-17-225140	12.8/8.0	21-TR1-11-225140	20.5/12.8
225-160	171.5	306	40	226	35	235	167.0	21-TR1-17-225160	12.8/9.1	21-TR1-11-225160	20.5/14.6
225-180	171.5	306	40	226	35	235	188.0	21-TR1-17-225180	12.8/10.2	21-TR1-11-225180	20.5/16.4
▲225-200	171.5	306	-	-	-	-	-	21-TR1-17-225200	12.8/11.4	21-TR1-11-225200	20.5/18.2
▲250-110	188.0	325	45	235	30	260	114.0	21-TR1-17-250110	14.2/6.3	21-TR1-11-250110	22.8/10.0
▲250-125	188.0	325	-	-	-	-	-	21-TR1-17-250125	14.2/7.1	21-TR1-11-250125	22.8/11.4
▲250-140	188.0	325	45	235	35	260	146.0	21-TR1-17-250140	14.2/8.0	21-TR1-11-250140	22.8/12.8
250-160	188.0	325	45	235	35	260	167.0	21-TR1-17-250160	14.2/9.1	21-TR1-11-250160	22.8/14.6
▲250-180	188.0	325	-	-	-	-	-	21-TR1-17-250180	14.2/10.2	21-TR1-11-250180	22.8/16.4
250-200	188.0	325	45	235	35	260	208.0	21-TR1-17-250200	14.2/11.4	21-TR1-11-250200	22.8/18.2
250-225	188.0	325	45	235	40	260	235.0	21-TR1-17-250225	14.2/12.8	21-TR1-11-250225	22.8/20.5
＊ 280-140	230	440	-	-	-	-	-	21-TR1-17-280140	15.9/8.0	21-TR1-11-280140	25.5/12.8
＊ 280-160	240	460	-	-	-	-	-	21-TR1-17-280160	15.9/9.1	21-TR1-11-280160	25.5/14.6
＊ 280-180	240	480	-	-	-	-	-	21-TR1-17-280180	15.9/10.2	21-TR1-11-280180	25.5/16.4
＊ 280-200	250	500	-	-	-	-	-	21-TR1-17-280200	15.9/11.4	21-TR1-11-280200	25.5/18.2
＊ 280-225	260	525	-	-	-	-	-	21-TR1-17-280225	15.9/12.8	21-TR1-11-280225	25.5/20.5
＊ 280-250	275	550	-	-	-	-	-	21-TR1-17-280250	15.9/14.2	21-TR1-11-280250	25.5/22.8
＊ 315-160	257.5	500	-	-	-	-	-	21-TR1-17-315160	17.9/9.1	21-TR1-11-315160	28.7/14.6
＊ 315-180	257.5	520	-	-	-	-	-	21-TR1-17-315180	17.9/10.2	21-TR1-11-315180	28.7/16.4
＊ 315-200	267.5	540	-	-	-	-	-	21-TR1-17-315200	17.9/11.4	21-TR1-11-315200	28.7/18.2
＊ 315-225	277.5	565	-	-	-	-	-	21-TR1-17-315225	17.9/12.8	21-TR1-11-315225	28.7/20.5
＊ 315-250	292.5	590	-	-	-	-	-	21-TR1-17-315250	17.9/14.2	21-TR1-11-315250	28.7/22.8
＊ 315-280	307.5	620	-	-	-	-	-	21-TR1-17-315280	17.9/15.9	21-TR1-11-315280	28.7/25.5

▲轉接品(Transition)　＊ 手工製品(Fabricated)

PP-H REDUCED TEE

(Fabricated)
for butt welding
molded from PP-H

手工對接異徑三通
DFP TR1





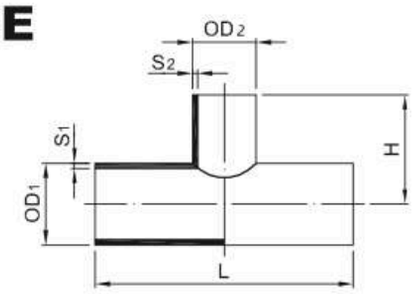
OD1/OD2 (mm)	H (mm)	L (mm)	SDR17.6 ISO S8.3 PN6		SDR11 ISO S5 PN10	
			Code	S1/S2 (mm)	Code	S1/S2 (mm)
355-180	277.5	550	21-TR3-17-355180	20.1/10.2	21-TR3-11-355180	32.3/16.4
355-200	287.5	570	21-TR3-17-355200	20.1/11.4	21-TR3-11-355200	32.3/18.2
355-225	297.5	595	21-TR3-17-355225	20.1/12.8	21-TR3-11-355225	32.3/20.5
355-250	312.5	620	21-TR3-17-355250	20.1/14.2	21-TR3-11-355250	32.3/22.8
355-280	327.5	650	21-TR3-17-355280	20.1/15.9	21-TR3-11-355280	32.3/25.5
355-315	347.5	685	21-TR3-17-355315	20.1/17.9	21-TR3-11-355315	32.3/28.7
400-200	310	620	21-TR3-17-400200	22.7/11.4	21-TR3-11-400200	36.4/18.2
400-225	320	645	21-TR3-17-400225	22.7/12.8	21-TR3-11-400225	36.4/20.5
400-250	335	670	21-TR3-17-400250	22.7/14.2	21-TR3-11-400250	36.4/22.8
400-280	350	700	21-TR3-17-400280	22.7/15.9	21-TR3-11-400280	36.4/25.5
400-315	370	735	21-TR3-17-400315	22.7/17.9	21-TR3-11-400315	36.4/28.7
400-355	385	775	21-TR3-17-400355	22.7/20.1	21-TR3-11-400355	36.4/32.3
450-225	345	695	21-TR3-17-450225	25.5/12.8	21-TR3-11-450225	41.0/20.5
450-250	360	720	21-TR3-17-450250	25.5/14.2	21-TR3-11-450250	41.0/22.8
450-280	375	750	21-TR3-17-450280	25.5/15.9	21-TR3-11-450280	41.0/25.5
450-315	395	785	21-TR3-17-450315	25.5/17.9	21-TR3-11-450315	41.0/28.7
450-355	410	825	21-TR3-17-450355	25.5/20.1	21-TR3-11-450355	41.0/32.3
450-400	435	870	21-TR3-17-450400	25.5/22.7	21-TR3-11-450400	41.0/36.4
500-250	385	770	21-TR3-17-500250	28.3/14.2	21-TR3-11-500250	45.5/22.8
500-280	400	800	21-TR3-17-500280	28.3/15.9	21-TR3-11-500280	45.5/25.5
500-315	420	835	21-TR3-17-500315	28.3/17.9	21-TR3-11-500315	45.5/28.7
500-355	435	875	21-TR3-17-500355	28.3/20.1	21-TR3-11-500355	45.5/32.3
500-400	460	920	21-TR3-17-500400	28.3/22.7	21-TR3-11-500400	45.5/36.4
500-450	485	970	21-TR3-17-500450	28.3/25.5	21-TR3-11-500450	45.5/41.0
560-280	430	860	21-TR3-17-560280	31.7/15.9	21-TR3-11-560280	50.9/25.5
560-315	450	895	21-TR3-17-560315	31.7/17.9	21-TR3-11-560315	50.9/28.7
560-355	465	935	21-TR3-17-560355	31.7/20.1	21-TR3-11-560355	50.9/32.3
560-400	490	980	21-TR3-17-560400	31.7/22.7	21-TR3-11-560400	50.9/36.4
560-450	515	1030	21-TR3-17-560450	31.7/25.5	21-TR3-11-560450	50.9/41.0
560-500	540	1080	21-TR3-17-560500	31.7/28.3	21-TR3-11-560500	50.9/45.5
630-315	485	965	21-TR3-17-630315	35.7/17.9	21-TR3-11-630315	57.2/28.7
630-355	500	1005	21-TR3-17-630355	35.7/20.1	21-TR3-11-630355	57.2/32.3
630-400	525	1050	21-TR3-17-630400	35.7/22.7	21-TR3-11-630400	57.2/36.4
630-450	550	1100	21-TR3-17-630450	35.7/25.5	21-TR3-11-630450	57.2/41.0
630-500	575	1150	21-TR3-17-630500	35.7/28.3	21-TR3-11-630500	57.2/45.5
630-560	605	1210	21-TR3-17-630560	35.7/31.7	21-TR3-11-630560	57.2/50.9

PP-H REDUCED TEE

(Fabricated)
for butt welding
molded from PP-H

手工對接異徑三通

DFP TR1



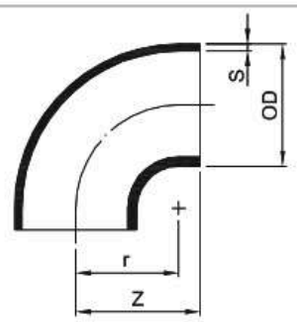


OD1/OD2 (mm)	H (mm)	L (mm)	SDR17.6 ISO S8.3 PN6		SDR11 ISO S5 PN10	
			Code	S1/S2 (mm)	Code	S1/S2 (mm)
710-355	540	1085	21-TR3-17-710355	40.2/20.1	21-TR3-11-710355	64.5/32.3
710-400	565	1130	21-TR3-17-710400	40.2/22.7	21-TR3-11-710400	64.5/36.4
710-450	590	1180	21-TR3-17-710450	40.2/25.5	21-TR3-11-710450	64.5/41.0
710-500	615	1230	21-TR3-17-710500	40.2/28.3	21-TR3-11-710500	64.5/45.5
710-560	645	1290	21-TR3-17-710560	40.2/31.7	21-TR3-11-710560	64.5/50.9
710-630	680	1360	21-TR3-17-710630	40.2/35.7	21-TR3-11-710630	64.5/57.2
800-400	610	1220	21-TR3-17-800400	45.5/22.7	21-TR3-11-800400	72.7/36.4
800-450	635	1270	21-TR3-17-800450	45.5/25.5	21-TR3-11-800450	72.7/41.0
800-500	660	1320	21-TR3-17-800500	45.5/28.3	21-TR3-11-800500	72.7/45.5
800-560	690	1380	21-TR3-17-800560	45.5/31.7	21-TR3-11-800560	72.7/50.9
800-630	725	1450	21-TR3-17-800630	45.5/35.7	21-TR3-11-800630	72.7/57.2
800-710	765	1530	21-TR3-17-800710	45.5/40.2	21-TR3-11-800710	72.7/64.5
900-450	685	1370	21-TR3-17-900450	51.2/25.5	21-TR3-11-900450	81.8/41.0
900-500	710	1420	21-TR3-17-900500	51.2/28.3	21-TR3-11-900500	81.8/45.5
900-560	740	1480	21-TR3-17-900560	51.2/31.7	21-TR3-11-900560	81.8/50.9
900-630	775	1550	21-TR3-17-900630	51.2/35.7	21-TR3-11-900630	81.8/57.2
900-710	815	1630	21-TR3-17-900710	51.2/40.2	21-TR3-11-900710	81.8/64.5
900-800	860	1720	21-TR3-17-900800	51.2/45.5	21-TR3-11-900800	81.8/72.7
1000-500	760	1540	21-TR3-17-100500	56.8/28.3	21-TR3-11-100500	90.9/45.5
1000-560	790	1600	21-TR3-17-100560	56.8/31.7	21-TR3-11-100560	90.9/50.9
1000-630	825	1670	21-TR3-17-100630	56.8/35.7	21-TR3-11-100630	90.9/57.2
1000-710	865	1750	21-TR3-17-100710	56.8/40.2	21-TR3-11-100710	90.9/64.5
1000-800	910	1840	21-TR3-17-100800	56.8/45.5	21-TR3-11-100800	90.9/72.7
1000-900	960	1940	21-TR3-17-100900	56.8/51.2	21-TR3-11-100900	90.9/81.8
1200-560	890	1800	21-TR3-17-120560	68.1/31.7	21-TR3-11-120560	109.0/50.9
1200-630	925	1870	21-TR3-17-120630	68.1/35.7	21-TR3-11-120630	109.0/57.2
1200-710	965	1950	21-TR3-17-120710	68.1/40.2	21-TR3-11-120710	109.0/64.5
1200-800	1010	2040	21-TR3-17-120800	68.1/45.5	21-TR3-11-120800	109.0/72.7
1200-900	1060	2140	21-TR3-17-120900	68.1/51.2	21-TR3-11-120900	109.0/81.8
1200-1000	1120	2240	21-TR3-17-120100	68.1/56.8	21-TR3-11-120100	109.0/90.9

PP-H 90° BEND

for butt welding
molded from PP-H

對接90°月彎
DFP L90

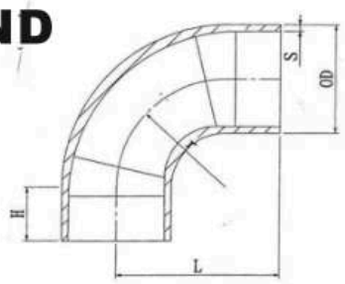


OD (mm)	Z (mm)	r (mm)	SDR17.6 ISO S8.3 PN6		SDR11 ISO S5 PN10	
			Code	S (mm)	Code	S (mm)
20	32	27.5	-	-	21-L90-21-0020	2.5
25	38	34.0	-	-	21-L90-21-0025	2.7
32	43	38.5	-	-	21-L90-21-0032	3.0
40	46	43.0	-	-	21-L90-21-0040	3.7
50	58	52.0	-	-	21-L90-21-0050	4.6
63	70	65.0	21-L90-33-0063	3.6	21-L90-21-0063	5.8
75	85	78.5	21-L90-33-0075	4.3	21-L90-21-0075	6.9
90	100	92.5	21-L90-33-0090	5.1	21-L90-21-0090	8.2
110	124	115.0	21-L90-33-0110	6.3	21-L90-21-0110	10.0

PP-H 90° LONG SPIGOT BEND

long spigot
for butt welding
molded from PP-H

對接90°長型月彎
DFP L93

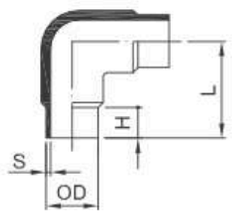


OD (mm)	H (mm)	L (mm)	SDR17.6 ISO S8.3 PN6		SDR11 ISO S5 PN10	
			Code	S (mm)	Code	S (mm)
20	41	64.0	-	-	21-L93-11-0020	2.5
25	26.1	51.3	-	-	21-L93-11-0025	2.7
32	26.1	58.3	-	-	21-L93-11-0032	3.0
40	52.5	92.5	-	-	21-L93-11-0040	3.7
50	58.5	108.5	-	-	21-L93-11-0050	4.6
63	69.7	129.5	21-L93-17-0063	3.6	21-L93-11-0063	5.8
75	72.0	150.0	21-L93-17-0075	4.3	21-L93-11-0075	6.9
180	121.0	290.5	21-L93-17-0180	10.2	21-L93-11-0180	16.4
250	150.0	402.5	21-L93-17-0250	14.2	21-L93-11-0250	22.8

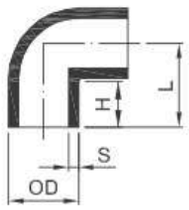
PP-H 90° BEND

for butt welding
molded from PP-H

對接90° 彎頭
DFP L91



(Ø20~Ø110 , 140 , 160)



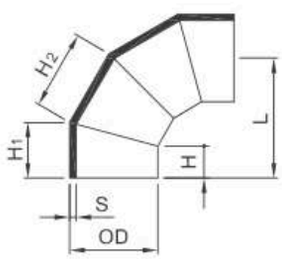
(Ø125 , 180 , 200 , 225 , 280 , 250 , 315)

OD (mm)	H (mm)	L (mm)	SDR17.6 ISO S8.3 PN6		SDR11 ISO S5 PN10		SDR7.4 ISO S3.2 PN16	
			Code	S (mm)	Code	S (mm)	Code	S (mm)
20	15.5	36.0	-	-	21-L91-11-0020	2.5	21-L91-07-0020	2.8
25	15.5	41.0	-	-	21-L91-11-0025	2.7	21-L91-07-0025	3.5
32	17.5	47.0	-	-	21-L91-11-0032	3.0	21-L91-07-0032	4.5
40	12	46.0	-	-	21-L91-11-0040	3.7	21-L91-07-0040	5.6
50	14	53.0	21-L91-17-0050	2.9	21-L91-11-0050	4.6	21-L91-07-0050	6.9
63	18	68.0	21-L91-17-0063	3.6	21-L91-11-0063	5.8	21-L91-07-0063	8.7
75	15	78.5	21-L91-17-0075	4.3	21-L91-11-0075	6.9	21-L91-07-0075	10.4
90	38.5	108.0	21-L91-17-0090	5.1	21-L91-11-0090	8.2	21-L91-07-0090	12.5
110	49.5	123.0	21-L91-17-0110	6.3	21-L91-11-0110	10.0	21-L91-07-0110	15.2
125	35	97.5	21-L91-17-0125	7.1	21-L91-11-0125	11.4	-	-
140	90	180.0	21-L91-17-0140	8.0	21-L91-11-0140	12.8	-	-
160	93.9	183.0	21-L91-17-0160	9.1	21-L91-11-0160	14.6	-	-
180	46	136.0	21-L91-17-0180	10.2	21-L91-11-0180	16.4	-	-
200	38	138.0	21-L91-17-0200	11.4	21-L91-11-0200	18.2	-	-
225	100	240.0	21-L91-17-0225	12.8	21-L91-11-0225	20.5	-	-
250	150	402.5	21-L91-17-0250	14.2	21-L91-11-0250	22.8	-	-
280	196	335.0	21-L91-17-0280	15.9	21-L91-11-0280	25.5	-	-
315	212	365.0	21-L91-17-0315	17.9	21-L91-11-0315	28.7	-	-

PP-H 90° ELBOW

(Fabricated)
for butt welding
molded from PP-H

手工對接90° 彎頭
DFP L94

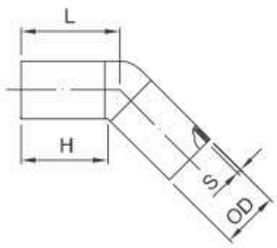


OD (mm)	H1 (mm)	H2 (mm)	H (mm)	L (mm)	SDR17.6 ISO S8.3 PN6		SDR11 ISO S5 PN10	
					Code	S (mm)	Code	S (mm)
355	280	375	185	615	21-L94-17-0355	20.1	21-L94-11-0355	32.3
400	317	424	210	697	21-L94-17-0400	22.7	21-L94-11-0400	36.4
450	356	476	235	781	21-L94-17-0450	25.5	21-L94-11-0450	41.0
500	394	528	260	865	21-L94-17-0500	28.3	21-L94-11-0500	45.5
560	440	589	290	966	21-L94-17-0560	31.7	21-L94-11-0560	50.9
630	494	663	325	1084	21-L94-17-0630	35.7	21-L94-11-0630	57.2
710	555	745	365	1219	21-L94-17-0710	40.2	21-L94-11-0710	64.5
800	625	838	410	1370	21-L94-17-0800	45.5	21-L94-11-0800	72.7
900	701	942	460	1539	21-L94-17-0900	51.2	21-L94-11-0900	81.8
1000	788	1058	520	1731	21-L94-17-1000	56.8	21-L94-11-1000	90.9
1200	942	1263	620	2067	21-L94-17-1200	68.1	21-L94-11-1200	109.0

PP-H 45° ELBOW

for butt welding
molded from PP-H

對接45°彎頭
DFP L45



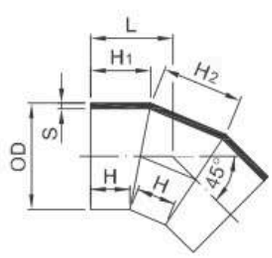


OD (mm)	H (mm)	L (mm)	SDR17.6 ISO S13.3 PN6		SDR11 ISO S5 PN10		SDR7.4 ISO S3.2 PN16	
			Code	S (mm)	Code	S (mm)	Code	S (mm)
20	28	32.0	-	-	21-L45-11-0020	2.5	21-L45-07-0020	2.8
25	29	34.0	-	-	21-L45-11-0025	2.7	21-L45-07-0025	3.5
32	30	36.0	-	-	21-L45-11-0032	3.0	21-L45-07-0032	4.5
40	31	39.0	-	-	21-L45-11-0040	3.7	21-L45-07-0040	5.6
50	32	42.0	21-L45-17-0050	2.9	21-L45-11-0050	4.6	21-L45-07-0050	6.9
63	34	47.0	21-L45-17-0063	3.6	21-L45-11-0063	5.8	21-L45-07-0063	8.7
75	34	49.0	21-L45-17-0075	4.3	21-L45-11-0075	6.9	21-L45-07-0075	10.4
90	36	55.0	21-L45-17-0090	5.1	21-L45-11-0090	8.2	21-L45-07-0090	12.5
110	45	68.0	21-L45-17-0110	6.3	21-L45-11-0110	10.0	21-L45-07-0110	15.2
125	50	81.0	21-L45-17-0125	7.1	21-L45-11-0125	11.4	21-L45-07-0125	--
140	55	91.5	21-L45-17-0140	8.0	21-L45-11-0140	12.8	21-L45-07-0140	--
160	60	94.0	21-L45-17-0160	9.1	21-L45-11-0160	14.6	21-L45-07-0160	--
180	65	110.0	21-L45-17-0180	10.2	21-L45-11-0180	16.4	21-L45-07-0180	--
200	70	120.0	21-L45-17-0200	11.4	21-L45-11-0200	18.2	21-L45-07-0200	--
225	80	127.0	21-L45-17-0225	12.8	21-L45-11-0225	20.5	21-L45-07-0225	--
250	90	150.0	21-L45-17-0250	14.2	21-L45-11-0250	22.8	21-L45-07-0250	--
280	100	170.0	21-L45-17-0280	15.9	21-L45-11-0280	25.5	21-L45-07-0280	--
315	110	184.0	21-L45-17-0315	17.9	21-L45-11-0315	28.7	21-L45-07-0315	--

PP-H 45° ELBOW

(Fabricated)
for butt welding
molded from PP-H

手工對接45°彎頭
DFP L47

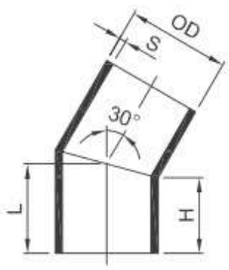


OD (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	SDR17.6 ISO S8.3 PN6		SDR11 ISO S5 PN10	
					Code	S (mm)	Code	S (mm)
355	185	256	326	359	21-L47-17-0355	20.1	21-L47-11-0355	32.3
400	210	289	370	407	21-L47-17-0400	22.7	21-L47-11-0400	36.4
450	235	325	413	455	21-L47-17-0450	25.5	21-L47-11-0450	41.0
500	260	360	458	504	21-L47-17-0500	28.3	21-L47-11-0500	45.5
560	290	402	512	563	21-L47-17-0560	31.7	21-L47-11-0560	50.9
630	325	450	576	631	21-L47-17-0630	35.7	21-L47-11-0630	57.2
710	365	506	648	710	21-L47-17-0710	40.2	21-L47-11-0710	64.5
800	410	569	729	798	21-L47-17-0800	45.5	21-L47-11-0800	72.7
900	460	639	818	895	21-L47-17-0900	51.2	21-L47-11-0900	81.8
1000	520	719	918	1009	21-L47-17-1000	56.8	21-L47-11-1000	90.9
1200	620	858	1099	1204	21-L47-17-1200	68.1	21-L47-11-1200	109.0

PP-H 30° ELBOW

(Fabricated)
for butt welding
molded from PP-H

手工對接30° 彎頭
DFP L30

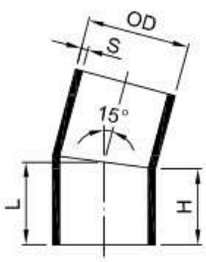


OD (mm)	H (mm)	L (mm)	SDR17.6 ISO S8.3 PN6		SDR11 ISO S5 PN10		SDR7.4 ISO S3.2 PN16	
			Code	S (mm)	Code	S (mm)	Code	S (mm)
63	70	78	21-L30-17-0063	3.6	21-L30-11-0063	5.8	21-L30-07-0063	8.7
90	70	82	21-L30-17-0090	5.1	21-L30-11-0090	8.2	21-L30-07-0090	12.5
110	80	95	21-L30-17-0110	6.3	21-L30-11-0110	10.0	21-L30-07-0110	15.2
125	90	107	21-L30-17-0125	7.1	21-L30-11-0125	11.4	21-L30-07-0125	17.4
140	90	108	21-L30-17-0140	8.0	21-L30-11-0140	12.8	21-L30-07-0140	19.31
160	100	121	21-L30-17-0160	9.1	21-L30-11-0160	14.6	21-L30-07-0160	22.07
180	100	124	21-L30-17-0180	10.2	21-L30-11-0180	16.4	21-L30-07-0180	24.83
200	110	137	21-L30-17-0200	11.4	21-L30-11-0200	18.2	21-L30-07-0200	27.47
225	120	150	21-L30-17-0225	12.8	21-L30-11-0225	20.5	21-L30-07-0225	31.03
250	135	169	21-L30-17-0250	14.2	21-L30-11-0250	22.8	21-L30-07-0250	34.48
280	150	188	21-L30-17-0280	15.9	21-L30-11-0280	25.5	21-L30-07-0280	38.62
315	170	212	21-L30-17-0315	17.9	21-L30-11-0315	28.7	21-L30-07-0315	43.45
355	185	232	21-L30-17-0355	20.1	21-L30-11-0355	32.3	21-L30-07-0355	-
400	210	264	21-L30-17-0400	22.7	21-L30-11-0400	36.4	21-L30-07-0400	-
450	235	295	21-L30-17-0450	25.5	21-L30-11-0450	41.0	21-L30-07-0450	-
500	260	327	21-L30-17-0500	28.3	21-L30-11-0500	45.5	21-L30-07-0500	-
560	290	365	21-L30-17-0560	31.7	21-L30-11-0560	50.9	21-L30-07-0560	-
630	325	409	21-L30-17-0630	35.7	21-L30-11-0630	57.2	21-L30-07-0630	-
710	365	460	21-L30-17-0710	40.2	21-L30-11-0710	64.5	21-L30-07-0710	-
800	410	517	21-L30-17-0800	45.5	21-L30-11-0800	72.7	21-L30-07-0800	-
900	460	580	21-L30-17-0900	51.2	21-L30-11-0900	81.8	21-L30-07-0900	-
1000	520	654	21-L30-17-1000	56.8	21-L30-11-1000	90.9	21-L30-07-1000	-
1200	620	781	21-L30-17-1200	68.1	21-L30-11-1200	109.0	21-L30-07-1200	-

PP-H 15° ELBOW

(Fabricated)
for butt welding
molded from PP-H

手工對接15°彎頭
DFP L15

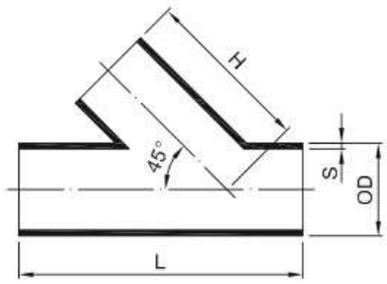


OD (mm)	H (mm)	L (mm)	SDR17.6 ISO S8.3 PN6		SDR11 ISO S5 PN10		SDR7.4 ISO S3.2 PN16	
			Code	S (mm)	Code	S (mm)	Code	S (mm)
63	70	74	21-L15-17-0063	3.6	21-L15-11-0063	5.8	21-L15-07-0063	8.7
90	70	75	21-L15-17-0090	5.1	21-L15-11-0090	8.2	21-L15-07-0090	12.5
110	80	87	21-L15-17-0110	6.3	21-L15-11-0110	10.0	21-L15-07-0110	15.2
125	90	98	21-L15-17-0125	7.1	21-L15-11-0125	11.4	21-L15-07-0125	17.24
140	90	99	21-L15-17-0140	8.0	21-L15-11-0140	12.8	21-L15-07-0140	19.31
160	100	110	21-L15-17-0160	9.1	21-L15-11-0160	14.6	21-L15-07-0160	22.07
180	100	112	21-L15-17-0180	10.2	21-L15-11-0180	16.4	21-L15-07-0180	24.83
200	110	123	21-L15-17-0200	11.4	21-L15-11-0200	18.2	21-L15-07-0200	27.47
225	120	135	21-L15-17-0225	12.8	21-L15-11-0225	20.5	21-L15-07-0225	31.03
250	135	152	21-L15-17-0250	14.2	21-L15-11-0250	22.8	21-L15-07-0250	34.48
280	150	169	21-L15-17-0280	15.9	21-L15-11-0280	25.5	21-L15-07-0280	38.62
315	170	191	21-L15-17-0315	17.9	21-L15-11-0315	28.7	21-L15-07-0315	43.45
355	185	208	21-L15-17-0355	20.1	21-L15-11-0355	32.3	-	-
400	210	237	21-L15-17-0400	22.7	21-L15-11-0400	36.4	-	-
450	235	264	21-L15-17-0450	25.5	21-L15-11-0450	41.0	-	-
500	260	293	21-L15-17-0500	28.3	21-L15-11-0500	45.5	-	-
560	290	327	21-L15-17-0560	31.7	21-L15-11-0560	50.9	-	-
630	325	366	21-L15-17-0630	35.7	21-L15-11-0630	57.2	-	-
710	365	412	21-L15-17-0710	40.2	21-L15-11-0710	64.5	-	-
800	410	462	21-L15-17-0800	45.5	21-L15-11-0800	72.7	-	-
900	460	519	21-L15-17-0900	51.2	21-L15-11-0900	81.8	-	-
1000	520	586	21-L15-17-1000	56.8	21-L15-11-1000	90.9	-	-
1200	620	699	21-L15-17-1200	68.1	21-L15-11-1200	109.0	-	-

PP-H 45° Y-TEE

(Fabricated)
for butt welding
molded from PP-H

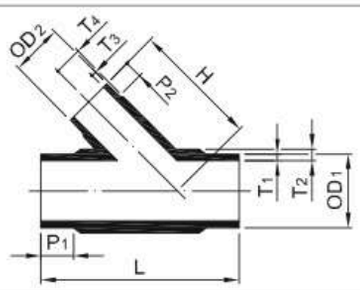
手工對接45° Y型三通
DFP TY1.TY2



OD (mm)	H (mm)	L (mm)	SDR17.6 ISO S8.3 PN6		SDR11 ISO S5 PN10	
			Code	S (mm)	Code	S (mm)
63	146	279	21-TY1-17-0063	3.6	21-TY1-11-0063	5.8
90	179	317	21-TY1-17-0090	5.1	21-TY1-11-0090	8.2
110	213	372	21-TY1-17-0110	6.3	21-TY1-11-0110	10.0
125	241	420	21-TY1-17-0125	7.1	21-TY1-11-0125	11.4
140	259	441	21-TY1-17-0140	8.0	21-TY1-11-0140	12.8
160	293	496	21-TY1-17-0160	9.1	21-TY1-11-0160	14.6
180	317	526	21-TY1-17-0180	10.2	21-TY1-11-0180	16.4
200	351	582	21-TY1-17-0200	11.4	21-TY1-11-0200	18.2
225	392	643	21-TY1-17-0225	12.8	21-TY1-11-0225	20.5
250	437	719	21-TY1-17-0250	14.2	21-TY1-11-0250	22.8
280	488	802	21-TY1-17-0280	15.9	21-TY1-11-0280	25.5
315	550	905	21-TY1-17-0315	17.9	21-TY1-11-0315	28.7
355	614	1003	21-TY2-17-0355	20.1	21-TY2-11-0355	32.3
400	693	1134	21-TY2-17-0400	22.7	21-TY2-11-0400	36.4
450	778	1271	21-TY2-17-0450	25.5	21-TY2-11-0450	41.0
500	864	1411	21-TY2-17-0500	28.3	21-TY2-11-0500	45.5
560	966	1577	21-TY2-17-0560	31.7	21-TY2-11-0560	50.9
630	1086	1771	21-TY2-17-0630	35.7	21-TY2-11-0630	57.2
710	1222	1993	21-TY2-17-0710	40.2	21-TY2-11-0710	64.5
800	1376	2240	21-TY2-17-0800	45.5	21-TY2-11-0800	72.7
900	1547	2518	21-TY2-17-0900	51.2	21-TY2-11-0900	81.8
1000	1727	2821	21-TY2-17-1000	56.8	21-TY2-11-1000	90.9
1200	2069	3375	21-TY2-17-1200	68.1	21-TY2-11-1200	109.0

PP-H REDUCED 45° Y-TEE

for butt welding
molded from PP-H
對接45°Y型三通
DFP TY1



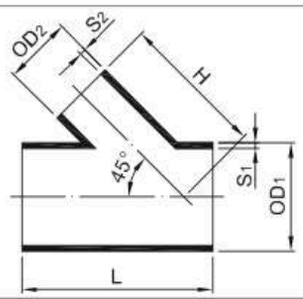


OD1/OD2 (mm)	H (mm)	L (mm)	P1 (mm)	P2 (mm)	SDR17.6 ISO S8.3 PN6				
					T1 (mm)	T2 (mm)	T3 (mm)	T4 (mm)	Code
63-63	150	253	31	31	3.6	7.8	3.6	7.8	21-TY1-17-063063
90-63	153.53	242	53	31	5.1	11.1	3.6	7.8	21-TY1-17-090063
90-90	214	348	53	53	5.1	11.1	5.1	11.1	21-TY1-17-090090
110-63	172.50	273	65	31	6.3	13.1	3.6	7.8	21-TY1-17-110063
110-110	245	414	65	65	6.3	13.1	6.3	13.1	21-TY1-17-110110
160-110	265.05	374	84	65	9.1	15.8	6.3	13.0	21-TY1-17-160110
160-160	330	530	84	84	9.1	15.8	9.1	15.8	21-TY1-17-160160

OD1/OD2 (mm)	H (mm)	L (mm)	P1 (mm)	P2 (mm)	SDR11 ISO S5 PN10				
					T1 (mm)	T2 (mm)	T3 (mm)	T4 (mm)	Code
63-63	150	253	31	31	6.0	10.0	6.0	10.0	21-TY1-11-063063
90-63	153.53	242	53	31	8.2	14.2	6.0	10.0	21-TY1-11-090063
90-90	214	348	53	53	8.5	14.2	8.5	14.2	21-TY1-11-090090
110-63	172.50	273	65	31	10.0	16.8	6.0	10.0	21-TY1-11-110063
110-90	207.35	316.25	65	53	10.0	16.8	8.5	14.2	21-TY1-11-110090
110-110	245	414	65	65	10.0	16.8	10.0	16.8	21-TY1-11-110110
160-90	248.04	356.50	84	53	14.6	21.3	8.3	14.2	21-TY1-11-160090
160-110	265.05	374	84	65	14.6	21.3	10.4	16.7	21-TY1-11-160110
160-160	330	530	84	84	14.6	21.3	14.6	21.3	21-TY1-17-160160

PP-H REDUCED 45° Y-TEE

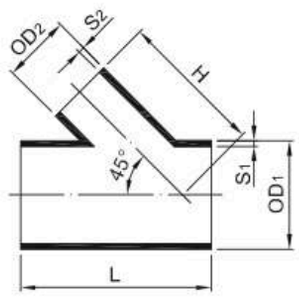
(Fabricated)
for butt welding
molded from PP-H
手工45°異徑Y型三通
DFP TY6



OD1/OD2 (mm)	H (mm)	L (mm)	SDR17.6 ISO S8.3 PN6		SDR11 ISO S5 PN10	
			Code	S1/S2 (mm)	Code	S1/S2 (mm)
110-32	174	262	28-TY6-110032-17.6	6.3/1.9	28-TY6-110032-11	10.0/3.0
110-40	178	273	28-TY6-110040-17.6	6.3/2.3	28-TY6-110040-11	10.0/3.7
110-50	183	287	28-TY6-110050-17.6	6.3/2.9	28-TY6-110050-11	10.0/4.6
110-75	195	323	28-TY6-110075-17.6	6.3/4.3	28-TY6-110075-11	10.0/6.9
125-40	198	300	28-TY6-125040-17.6	7.1/2.3	28-TY6-125040-11	11.4/3.7
125-50	203	314	28-TY6-125050-17.6	7.1/2.9	28-TY6-125050-11	11.4/4.6
125-63	220	333	28-TY6-125063-17.6	7.1/3.6	28-TY6-125063-11	11.4/5.8
125-75	216	350	28-TY6-125075-17.6	7.1/4.3	28-TY6-125075-11	11.4/6.9
125-90	223	371	28-TY6-125090-17.6	7.1/5.1	28-TY6-125090-11	11.4/8.2
125-110	233	399	28-TY6-125110-17.6	7.1/6.3	28-TY6-125110-11	11.4/10.0

PP-H REDUCED 45° Y-TEE

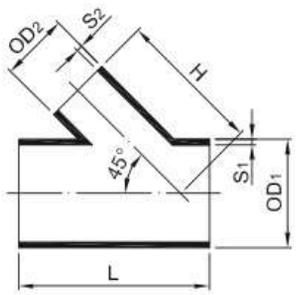
(Fabricated)
for butt welding
molded from PP-H
手工對接45° 異徑Y型三通
DFP TY6



OD1/OD2 (mm)	H (mm)	L (mm)	SDR17.6 ISO S8.3 PN6		SDR11 ISO S5 PN10	
			Code	S1/S2 (mm)	Code	S1/S2 (mm)
140-50	214	314	28-TY6-140050-17.6	8.0/2.9	28-TY6-140050-11	12.8/4.6
140-63	220	333	28-TY6-140063-17.6	8.0/3.6	28-TY6-140063-11	12.8/5.8
140-75	226	350	28-TY6-140075-17.6	8.0/4.3	28-TY6-140075-11	12.8/6.9
140-90	234	371	28-TY6-140090-17.6	8.0/5.1	28-TY6-140090-11	12.8/8.2
140-110	244	399	28-TY6-140110-17.6	8.0/6.3	28-TY6-140110-11	12.8/10.0
140-125	251	420	28-TY6-140125-17.6	8.0/7.1	28-TY6-140125-11	12.8/11.4
160-63	245	360	28-TY6-160063-17.6	9.1/3.6	28-TY6-160063-11	14.6/5.8
160-75	251	377	28-TY6-160075-17.6	9.1/4.3	28-TY6-160075-11	14.6/6.9
160-125	276	447	28-TY6-160125-17.6	9.1/7.1	28-TY6-160125-11	14.6/11.4
160-140	283	469	28-TY6-160140-17.6	9.1/8.0	28-TY6-160140-11	14.6/12.8
180-75	265	377	28-TY6-180075-17.6	10.2/4.3	28-TY6-180075-11	16.4/6.9
180-90	272	398	28-TY6-180090-17.6	10.2/5.1	28-TY6-180090-11	16.4/8.2
180-110	300	426	28-TY6-180110-17.6	10.2/6.3	28-TY6-180110-11	16.4/10.0
180-125	290	447	28-TY6-180125-17.6	10.2/7.1	28-TY6-180125-11	16.4/11.4
180-140	297	469	28-TY6-180140-17.6	10.2/8.0	28-TY6-180140-11	16.4/12.8
180-160	307	497	28-TY6-180160-17.6	10.2/9.1	28-TY6-180160-11	16.4/14.6
200-90	296	425	28-TY6-200090-17.6	11.4/5.1	28-TY6-200090-11	18.2/8.2
200-110	306	453	28-TY6-200110-17.6	11.4/6.3	28-TY6-200110-11	18.2/10.0
200-125	338	475	28-TY6-200125-17.6	11.4/7.1	28-TY6-200125-11	18.2/11.4
200-140	321	496	28-TY6-200140-17.6	11.4/8.0	28-TY6-200140-11	18.2/12.8
200-160	331	524	28-TY6-200160-17.6	11.4/9.1	28-TY6-200160-11	18.2/14.6
200-180	341	552	28-TY6-200180-17.6	11.4/10.2	28-TY6-200180-11	18.2/16.4
225-110	334	482	28-TY6-225110-17.6	12.8/6.3	28-TY6-225110-11	20.5/10.0
225-125	342	502	28-TY6-225125-17.6	12.8/7.1	28-TY6-225125-11	20.5/11.4
225-140	349	523	28-TY6-225140-17.6	12.8/8.0	28-TY6-225140-11	20.5/12.8
225-160	359	551	28-TY6-225160-17.6	12.8/9.1	28-TY6-225160-11	20.5/14.6
225-180	369	579	28-TY6-225180-17.6	12.8/10.2	28-TY6-225180-11	20.5/16.4
225-200	379	608	28-TY6-225200-17.6	12.8/11.4	28-TY6-225200-11	20.5/18.2
250-125	374	542	28-TY6-250125-17.6	14.2/7.1	28-TY6-250125-11	22.8/11.4
250-140	382	563	28-TY6-250140-17.6	14.2/8.0	28-TY6-250140-11	22.8/12.8
250-160	392	592	28-TY6-250160-17.6	14.2/9.1	28-TY6-250160-11	22.8/14.6
250-180	402	620	28-TY6-250180-17.6	14.2/10.2	28-TY6-250180-11	22.8/16.4
250-200	412	648	28-TY6-250200-17.6	14.2/11.4	28-TY6-250200-11	22.8/18.2
250-225	424	684	28-TY6-250225-17.6	14.2/12.8	28-TY6-250225-11	22.8/20.5
280-140	418	632	28-TY6-280140-17.6	15.9/8.0	28-TY6-280140-11	25.5/12.8
280-160	428	632	28-TY6-280160-17.6	15.9/9.1	28-TY6-280160-11	25.5/14.6
280-180	439	661	28-TY6-280180-17.6	15.9/10.2	28-TY6-280180-11	25.5/16.4
280-200	448	689	28-TY6-280200-17.6	15.9/11.4	28-TY6-280200-11	25.5/18.2
280-225	460	724	28-TY6-280225-17.6	15.9/12.8	28-TY6-280225-11	25.5/20.5
280-250	473	760	28-TY6-280250-17.6	15.9/14.2	28-TY6-280250-11	25.5/22.8

PP-H REDUCED 45° Y-TEE

(Fabricated)
for butt welding
molded from PP-H
手工對接45°異徑Y型三通
DFP TY6

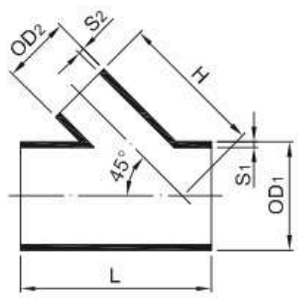


OD1/OD2 (mm)	H (mm)	L (mm)	SDR17.6 ISO S8.3 PN6		SDR11 ISO S5 PN10	
			Code	S1/S2 (mm)	Code	S1/S2 (mm)
315-160	473	686	28-TY6-315160-17.6	17.9/9.1	28-TY6-315160-11	28.7/14.6
315-180	483	715	28-TY6-315180-17.6	17.9/10.2	28-TY6-315180-11	28.7/16.4
315-200	491	743	28-TY6-315200-17.6	17.9/11.4	28-TY6-315200-11	28.7/18.2
315-225	505	772	28-TY6-315225-17.6	17.9/12.8	28-TY6-315225-11	28.7/20.5
315-250	518	814	28-TY6-315250-17.6	17.9/14.2	28-TY6-315250-11	28.7/22.8
315-280	533	856	28-TY6-315280-17.6	17.9/15.9	28-TY6-315280-11	28.7/25.5
355-180	526	755	28-TY6-355180-17.6	20.1/10.2	28-TY6-355180-11	32.3/16.4
355-200	536	784	28-TY6-355200-17.6	20.1/11.4	28-TY6-355200-11	32.3/18.2
355-225	546	819	28-TY6-355225-17.6	20.1/12.8	28-TY6-355225-11	32.3/20.5
355-250	561	854	28-TY6-355250-17.6	20.1/14.2	28-TY6-355250-11	32.3/22.8
355-280	576	897	28-TY6-355280-17.6	20.1/15.9	28-TY6-355280-11	32.3/25.5
355-315	583	946	28-TY6-355315-17.6	20.1/17.9	28-TY6-355315-11	32.3/28.7
400-200	593	851	28-TY6-400200-17.6	22.7/11.4	28-TY6-400200-11	36.4/18.2
400-225	605	879	28-TY6-400225-17.6	22.7/12.8	28-TY6-400225-11	36.4/20.5
400-250	611	922	28-TY6-400250-17.6	22.7/14.2	28-TY6-400250-11	36.4/22.8
400-280	633	964	28-TY6-400280-17.6	22.7/15.9	28-TY6-400280-11	36.4/25.5
400-315	650	1014	28-TY6-400315-17.6	22.7/17.9	28-TY6-400315-11	36.4/28.7
400-355	670	1071	28-TY6-400355-17.6	22.7/20.1	28-TY6-400355-11	36.4/32.3
450-225	666	954	28-TY6-450225-17.6	25.5/12.8	28-TY6-450225-11	41.0/20.5
450-250	678	990	28-TY6-450250-17.6	25.5/14.2	28-TY6-450250-11	41.0/22.8
450-280	693	1034	28-TY6-450280-17.6	25.5/15.9	28-TY6-450280-11	41.0/25.5
450-315	711	1082	28-TY6-450315-17.6	25.5/17.9	28-TY6-450315-11	41.0/28.7
450-355	731	1138	28-TY6-450355-17.6	25.5/20.1	28-TY6-450355-11	41.0/32.3
450-400	753	1202	28-TY6-450400-17.6	25.5/22.7	28-TY6-450400-11	41.0/36.4
500-250	739	1057	28-TY6-500250-17.6	28.3/14.2	28-TY6-500250-11	45.5/22.8
500-280	754	1100	28-TY6-500280-17.6	28.3/15.9	28-TY6-500280-11	45.5/25.5
500-315	775	1149	28-TY6-500315-17.6	28.3/17.9	28-TY6-500315-11	45.5/28.7
500-355	791	1206	28-TY6-500355-17.6	28.3/20.1	28-TY6-500355-11	45.5/32.3
500-400	814	1269	28-TY6-500400-17.6	28.3/22.7	28-TY6-500400-11	45.5/36.4
500-450	839	1340	28-TY6-500450-17.6	28.3/25.5	28-TY6-500450-11	45.5/41.0
560-280	826	1181	28-TY6-560280-17.6	31.7/15.9	28-TY6-560280-11	50.9/25.5
560-315	843	1231	28-TY6-560315-17.6	31.7/17.9	28-TY6-560315-11	50.9/28.7
560-355	871	1287	28-TY6-560355-17.6	31.7/20.1	28-TY6-560355-11	50.9/32.3
560-400	886	1351	28-TY6-560400-17.6	31.7/22.7	28-TY6-560400-11	50.9/36.4
560-450	911	1422	28-TY6-560450-17.6	31.7/25.5	28-TY6-560450-11	50.9/41.0
560-500	936	1493	28-TY6-560500-17.6	31.7/28.3	28-TY6-560500-11	50.9/45.5

PP-H REDUCED 45° Y-TEE

(Fabricated)
for butt welding
molded from PP-H

手工對接45° 異徑Y型三通
DFP TY6

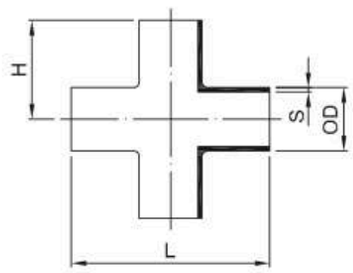


OD1/OD2 (mm)	H (mm)	L (mm)	SDR17.6 ISO S8.3 PN6		SDR11 ISO S5 PN10	
			Code	S1/S2 (mm)	Code	S1/S2 (mm)
630-315	928	1325	28-TY6-630315-17.6	35.7/17.9	28-TY6-630315-11	57.2/28.7
630-355	948	1382	28-TY6-630355-17.6	35.7/20.1	28-TY6-630355-11	57.2/32.3
630-400	970	1445	28-TY6-630400-17.6	35.7/22.7	28-TY6-630400-11	57.2/36.4
630-450	995	1516	28-TY6-630450-17.6	35.7/25.5	28-TY6-630450-11	57.2/41.0
630-500	1020	1587	28-TY6-630500-17.6	35.7/28.3	28-TY6-630500-11	57.2/45.5
630-560	1050	1672	28-TY6-630560-17.6	35.7/31.7	28-TY6-630560-11	57.2/50.9
710-355	1045	1490	28-TY6-710355-17.6	40.2/20.1	28-TY6-710355-11	64.5/32.3
710-400	1067	1554	28-TY6-710400-17.6	40.2/22.7	28-TY6-710400-11	64.5/36.4
710-450	1091	1626	28-TY6-710450-17.6	40.2/25.5	28-TY6-710450-11	64.5/41.0
710-500	1117	1695	28-TY6-710500-17.6	40.2/28.3	28-TY6-710500-11	64.5/45.5
710-560	1147	1808	28-TY6-710560-17.6	40.2/31.7	28-TY6-710560-11	64.5/50.9
710-630	1182	1879	28-TY6-710305-17.6	40.2/35.7	28-TY6-710305-11	64.5/57.2
800-400	1176	1676	28-TY6-800400-17.6	45.5/22.7	28-TY6-800400-11	72.7/36.4
800-450	1201	1746	28-TY6-800450-17.6	45.5/25.5	28-TY6-800450-11	72.7/41.0
800-500	1226	1817	28-TY6-800500-17.6	45.5/28.3	28-TY6-800500-11	72.7/45.5
800-560	1256	1902	28-TY6-800560-17.6	45.5/31.7	28-TY6-800560-11	72.7/50.9
800-630	1291	2001	28-TY6-800630-17.6	45.5/35.7	28-TY6-800630-11	72.7/57.2
800-710	1331	2114	28-TY6-800710-17.6	45.5/40.2	28-TY6-800710-11	72.7/64.5
900-450	1321	1882	28-TY6-900450-17.6	51.2/25.5	28-TY6-900450-11	81.8/41.0
900-500	1346	1952	28-TY6-900500-17.6	51.2/28.3	28-TY6-900500-11	81.8/45.5
900-560	1374	2041	28-TY6-900560-17.6	51.2/31.7	28-TY6-900560-11	81.8/50.9
900-630	1411	2138	28-TY6-900630-17.6	51.2/35.7	28-TY6-900630-11	81.8/57.2
900-710	1451	2246	28-TY6-900710-17.6	51.2/40.2	28-TY6-900710-11	81.8/64.5
900-800	1496	2378	28-TY6-900800-17.6	51.2/45.5	28-TY6-900800-11	81.8/72.7
1000-500	1477	2115	28-TY6-100500-17.6	56.8/28.3	28-TY6-100500-11	90.9/45.5
1000-560	1507	2200	28-TY6-100560-17.6	56.8/31.7	28-TY6-100560-11	90.9/50.9
1000-630	1548	2294	28-TY6-100630-17.6	56.8/35.7	28-TY6-100630-11	90.9/57.2
1000-710	1580	2406	28-TY6-100710-17.6	56.8/40.2	28-TY6-100710-11	90.9/64.5
1000-800	1625	2537	28-TY6-100800-17.6	56.8/45.5	28-TY6-100800-11	90.9/72.7
1000-900	1675	2674	28-TY6-100900-17.6	56.8/51.2	28-TY6-100900-11	90.9/81.8
1200-560	1749	2470	28-TY6-120560-17.6	68.1/31.7	28-TY6-120560-11	109.0/50.9
1200-630	1784	2570	28-TY6-120630-17.6	68.1/35.7	28-TY6-120630-11	109.0/57.2
1200-710	1824	2682	28-TY6-120710-17.6	68.1/40.2	28-TY6-120710-11	109.0/64.5
1200-800	1869	2810	28-TY6-120800-17.6	68.1/45.5	28-TY6-120800-11	109.0/72.7
1200-900	1919	2951	28-TY6-120900-17.6	68.1/51.2	28-TY6-120900-11	109.0/81.8
1200-1000	1969	3093	28-TY6-120100-17.6	68.1/56.8	28-TY6-120100-11	109.0/90.9

PP-H CROSS

(Fabricated)
for butt welding
molded from PP-H

手工對接四通
DFP TZ1

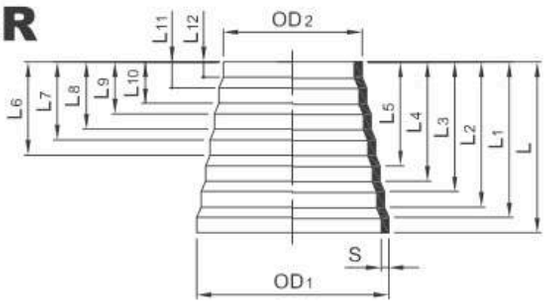


OD (mm)	H (mm)	L (mm)	SDR17.6 ISO S8.3 PN6		SDR11 ISO S5 PN10	
			Code	S (mm)	Code	S (mm)
63	101.5	203	21-TZ1-27-0063	3.6	21-TZ1-17-0063	5.8
90	115.0	230	21-TZ1-27-0090	5.1	21-TZ1-17-0090	8.2
110	135.0	270	21-TZ1-27-0110	6.3	21-TZ1-17-0110	10.0
125	152.5	305	21-TZ1-27-0125	7.1	21-TZ1-17-0125	11.4
140	160.0	320	21-TZ1-27-0140	8.0	21-TZ1-17-0140	12.8
160	180.0	360	21-TZ1-27-0160	9.1	21-TZ1-17-0160	14.6
180	190.0	380	21-TZ1-27-0180	10.2	21-TZ1-17-0180	16.4
200	210.0	420	21-TZ1-27-0200	11.4	21-TZ1-17-0200	18.2
225	232.5	465	21-TZ1-27-0225	12.8	21-TZ1-17-0225	20.5
250	260.0	520	21-TZ1-27-0250	14.2	21-TZ1-17-0250	22.8
280	290.0	580	21-TZ1-27-0280	15.9	21-TZ1-17-0280	25.5
315	327.5	655	21-TZ1-27-0315	17.9	21-TZ1-17-0315	28.7
355	362.5	725	21-TZ1-27-0355	20.1	21-TZ1-17-0355	32.3
400	410.0	820	21-TZ1-27-0400	22.7	21-TZ1-17-0400	36.4
450	460.0	920	21-TZ1-27-0450	25.5	21-TZ1-17-0450	41.0
500	510.0	1020	21-TZ1-27-0500	28.3	21-TZ1-17-0500	45.5
560	570.0	1140	21-TZ1-27-0560	31.7	21-TZ1-17-0560	50.9
630	640.0	1280	21-TZ1-27-0630	35.7	21-TZ1-17-0630	57.2
710	720.0	1440	21-TZ1-27-0710	40.2	21-TZ1-17-0710	64.5
800	810.0	1620	21-TZ1-27-0800	45.5	21-TZ1-17-0800	72.7
900	910.0	1820	21-TZ1-27-0900	51.2	21-TZ1-17-0900	81.8
1000	1020.0	2040	21-TZ1-27-1000	56.8	21-TZ1-17-1000	90.9
1200	1220.0	2440	21-TZ1-27-1200	68.1	21-TZ1-17-1200	109.0

PP-H REDUCER CONCENTRIC

for butt welding
molded from PP-H

對接塔型大小頭
DFP TW1





OD1/OD2 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	L7 (mm)	L8 (mm)	L9 (mm)	L10 (mm)	L11 (mm)	L12 (mm)
63/16	70.5	62.5	53.5	46.5	38.5	33.0	25.0	21	15	12	7	5
75/32	62.5	54.5	45.5	37.5	28.5	21.5	13.5	8	-	-	-	-
110/63	57.0	47.0	36.0	28.0	17.0	9.0	-	-	-	-	-	-
125/75	63.0	53.0	40.0	30.0	19.0	11.0	-	-	-	-	-	-
160/110	74.0	62.0	48.0	37.0	23.0	13.0	-	-	-	-	-	-
225/160	87.0	71.0	55.0	42.0	26.0	14.0	-	-	-	-	-	-
315/225	109.0	89.0	70.0	54.0	35.0	19.0	-	-	-	-	-	-
450/315	148.0	118.0	92.0	68.0	44.0	24.0	-	-	-	-	-	-
630/450	214.0	178.0	132.0	100.0	62.0	32.0	-	-	-	-	-	-

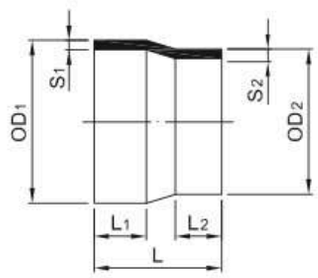
PN6	16	20	25	32	40	50	63	75	90	110	125	140	160	180	200	225	250	280	315	355	400	450	500	560	630
S	-	-	-	-	-	2.9	3.6	4.3	5.1	6.3	7.1	8.0	9.1	10.2	11.4	12.8	14.2	15.9	17.9	20.1	22.7	25.5	28.3	31.7	35.7
PN10	16	20	25	32	40	50	63	75	90	110	125	140	160	180	200	225	250	280	315	355	400	450	500	560	630
S	2.0	2.5	2.7	3.0	3.7	4.6	5.8	6.9	8.2	10.0	11.4	12.8	14.6	16.4	18.2	20.5	22.8	25.5	28.7	32.3	36.4	41.0	45.5	50.9	57.2

OD1/OD2 (mm)	L (mm)	SDR17.6 ISO S8.3 PN6	SDR11 ISO S5 PN10
		Code	Code
63/16	79.5±2	21-TW1-17-063016	21-TW1-11-063016
75/32	73.5±2	21-TW1-17-075032	21-TW1-11-075032
110/63	70.0±2	21-TW1-17-110063	21-TW1-11-110063
125/75	77.0±2	21-TW1-17-125075	21-TW1-11-125075
160/110	88.0±2	21-TW1-17-160110	21-TW1-11-160110
225/160	106.0±3	21-TW1-17-225160	21-TW1-11-225160
315/225	133.0±3	21-TW1-17-315225	21-TW1-11-315225
450/315	180.0±4	21-TW1-17-450315	21-TW1-11-450315
630/450	276.0±4	21-TW1-17-630450	21-TW1-11-630450

PP-H REDUCER

concentric,elongated
for butt welding
molded from PP-H

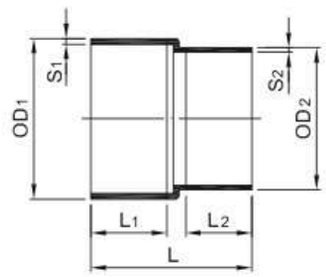
對接大小頭
DFP RC1



OD_1/OD_2 (mm)	L (mm)	L_1 (mm)	L_2 (mm)	SDR17.6 ISO S8.3 PN6		SDR11 ISO S5 PN10	
				Code	S_1/S_2 (mm)	Code	S_1/S_2 (mm)
25-20	50	20	20	-	-	21-RC1-11-025020	2.7/2.5
32-20	50	20	20	-	-	21-RC1-11-032020	3.0/2.5
32-25	50	20	20	-	-	21-RC1-11-032025	3.0/2.7
40-20	55	20	20	-	-	21-RC1-11-040020	3.7/2.5
40-25	55	20	20	-	-	21-RC1-11-040025	3.7/2.7
40-32	55	20	20	-	-	21-RC1-11-040032	3.7/3.0
50-20	60	24	20	-	-	21-RC1-11-050020	4.6/2.5
50-25	60	24	20	-	-	21-RC1-11-050025	4.6/2.7
50-32	60	24	20	-	-	21-RC1-11-050032	4.6/3.0
50-40	60	24	20	-	-	21-RC1-11-050040	4.6/3.7
63-25	65	25	20	-	-	21-RC1-11-063025	5.8/2.7
63-32	65	25	22	-	-	21-RC1-11-063032	5.8/3.0
63-40	65	25	22	-	-	21-RC1-11-063040	5.8/3.7
63-50	65	25	22	21-RC1-17-063050	3.6/2.9	21-RC1-11-063050	5.8/4.6
75-40	68	25	24	21-RC1-17-075040	4.3/2.3	21-RC1-11-075040	6.9/3.7
75-50	68	25	24	21-RC1-17-075050	4.3/2.9	21-RC1-11-075050	6.9/4.6
75-63	68	25	24	21-RC1-17-075063	4.3/3.6	21-RC1-11-075063	6.9/5.8
90-50	75	30	26	21-RC1-17-090050	5.1/2.9	21-RC1-11-090050	8.2/4.6
90-63	75	30	26	21-RC1-17-090063	5.1/3.6	21-RC1-11-090063	8.2/5.8
90-75	75	30	26	21-RC1-17-090075	5.1/4.3	21-RC1-11-090075	8.2/6.9
110-63	90	35	30	21-RC1-17-110063	6.3/3.6	21-RC1-11-110063	10.0/5.8
110-75	90	35	30	21-RC1-17-110075	6.3/4.3	21-RC1-11-110075	10.0/6.9
110-90	90	35	30	21-RC1-17-110090	6.3/5.1	21-RC1-11-110090	10.0/8.2
125-110	100	40	35	21-RC1-17-120110	7.1/6.3	21-RC1-11-120110	11.4/10.0
140-125	110	45	40	21-RC1-17-140125	8.0/7.1	21-RC1-11-140125	12.8/11.4
160-110	130	60	40	21-RC1-17-160110	9.1/6.3	21-RC1-11-160110	14.6/10.0
160-140	130	60	40	21-RC1-17-160140	9.1/8.0	21-RC1-11-160140	14.6/12.8
180-160	130	60	40	21-RC1-17-180160	10.2/9.1	21-RC1-11-180160	16.4/14.6
200-160	140	60	40	21-RC1-17-200160	11.4/9.1	21-RC1-11-200160	18.2/14.6
225-160	150	60	40	21-RC1-17-225160	12.8/9.1	21-RC1-11-225160	20.5/14.6
225-200	150	60	50	21-RC1-17-225200	12.8/11.4	21-RC1-11-225200	20.5/18.2
250-225	170	70	60	21-RC1-17-250220	14.2/12.8	21-RC1-11-250220	22.8/20.5
280-250	180	80	60	21-RC1-17-280250	15.9/14.2	21-RC1-11-280250	25.5/22.8
315-280	220	90	80	21-RC1-17-315280	17.9/15.9	21-RC1-11-315280	28.7/25.5

PP-H REDUCER

(Fabricated)
concentric,elongated
for butt welding
molded from PP-H
手工對接大小頭
DFP RC1



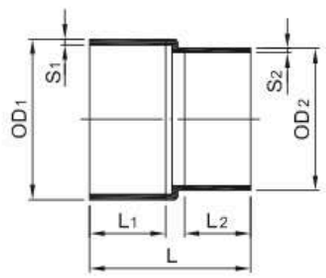
OD_1/OD_2 (mm)	L (mm)	L_1 (mm)	L_2 (mm)	SDR17.6 ISO S8.3 PN6		SDR11 ISO S5 PN10	
				Code	S_1/S_2 (mm)	Code	S_1/S_2 (mm)
355-180	318	180	110	21-RC1-17-355180	20.1/10.2	21-RC1-11-355180	32.3/16.4
355-200	328	180	120	21-RC1-17-355200	20.1/11.4	21-RC1-11-355200	32.3/18.2
355-225	328	180	120	21-RC1-17-355225	20.1/12.8	21-RC1-11-355225	32.3/20.5
355-250	338	180	130	21-RC1-17-355250	20.1/14.2	21-RC1-11-355250	32.3/22.8
355-280	358	180	150	21-RC1-17-355280	20.1/15.9	21-RC1-11-355280	32.3/25.5
355-315	368	180	160	21-RC1-17-355315	20.1/17.9	21-RC1-11-355315	32.3/28.7
400-200	358	210	120	21-RC1-17-400200	22.7/11.4	21-RC1-11-400200	36.4/18.2
400-225	358	210	120	21-RC1-17-400225	22.7/12.8	21-RC1-11-400225	36.4/20.5
400-250	368	210	130	21-RC1-17-400250	22.7/14.2	21-RC1-11-400250	36.4/22.8
400-280	388	210	150	21-RC1-17-400280	22.7/15.9	21-RC1-11-400280	36.4/25.5
400-315	398	210	160	21-RC1-17-400315	22.7/17.9	21-RC1-11-400315	36.4/28.7
400-355	418	210	180	21-RC1-17-400355	22.7/20.1	21-RC1-11-400355	36.4/32.3
450-225	398	250	120	21-RC1-17-450225	25.5/12.8	21-RC1-11-450225	41.0/20.5
450-250	408	250	130	21-RC1-17-450250	25.5/14.2	21-RC1-11-450250	41.0/22.8
450-280	428	250	150	21-RC1-17-450280	25.5/15.9	21-RC1-11-450280	41.0/25.5
450-315	438	250	160	21-RC1-17-450315	25.5/17.9	21-RC1-11-450315	41.0/28.7
450-355	458	250	180	21-RC1-17-450355	25.5/20.1	21-RC1-11-450355	41.0/32.3
450-400	488	250	210	21-RC1-17-450400	25.5/22.7	21-RC1-11-450400	41.0/36.4
500-250	438	280	130	21-RC1-17-500250	28.3/14.2	21-RC1-11-500250	45.5/22.8
500-280	458	280	150	21-RC1-17-500280	28.3/15.9	21-RC1-11-500280	45.5/25.5
500-315	468	280	160	21-RC1-17-500315	28.3/17.9	21-RC1-11-500315	45.5/28.7
500-355	488	280	180	21-RC1-17-500355	28.3/20.1	21-RC1-11-500355	45.5/32.3
500-400	518	280	210	21-RC1-17-500400	28.3/22.7	21-RC1-11-500400	45.5/36.4
500-450	558	280	250	21-RC1-17-500450	28.3/25.5	21-RC1-11-500450	45.5/41.0
560-280	478	300	150	21-RC1-17-560280	31.7/15.9	21-RC1-11-560280	50.9/25.5
560-315	488	300	160	21-RC1-17-560315	31.7/17.9	21-RC1-11-560315	50.9/28.7
560-355	508	300	180	21-RC1-17-560355	31.7/20.1	21-RC1-11-560355	50.9/32.3
560-400	538	300	210	21-RC1-17-560400	31.7/22.7	21-RC1-11-560400	50.9/36.4
560-450	578	300	250	21-RC1-17-560450	31.7/25.5	21-RC1-11-560450	50.9/41.0
560-500	608	300	280	21-RC1-17-560500	31.7/28.3	21-RC1-11-560500	50.9/45.5
630-315	538	350	160	21-RC1-17-630315	35.7/17.9	21-RC1-11-630315	57.2/28.7
630-355	558	350	180	21-RC1-17-630355	35.7/20.1	21-RC1-11-630355	57.2/32.3
630-400	588	350	210	21-RC1-17-630400	35.7/22.7	21-RC1-11-630400	57.2/36.4
630-450	628	350	250	21-RC1-17-630450	35.7/25.5	21-RC1-11-630450	57.2/41.0
630-500	658	350	280	21-RC1-17-630500	35.7/28.3	21-RC1-11-630500	57.2/45.5
630-560	678	350	300	21-RC1-17-630560	35.7/31.7	21-RC1-11-630560	57.2/50.9

PP-H REDUCER

(Fabricated)
concentric,elongated
for butt welding
molded from PP-H

手工對接大小頭

DFP RC1

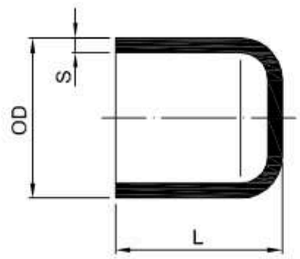


OD_1/OD_2 (mm)	L (mm)	L_1 (mm)	L_2 (mm)	SDR17.6 ISO S8.3 PN6		SDR11 ISO S5 PN10	
				Code	S_1/S_2 (mm)	Code	S_1/S_2 (mm)
710-355	608	400	180	21-RC1-17-710355	40.2/20.1	21-RC1-11-710355	64.5/32.3
710-400	638	400	210	21-RC1-17-710400	40.2/22.7	21-RC1-11-710400	64.5/36.4
710-450	678	400	250	21-RC1-17-710450	40.2/25.5	21-RC1-11-710450	64.5/41.0
710-500	708	400	280	21-RC1-17-710500	40.2/28.3	21-RC1-11-710500	64.5/45.5
710-560	728	400	300	21-RC1-17-710560	40.2/31.7	21-RC1-11-710560	64.5/50.9
710-630	778	400	350	21-RC1-17-710630	40.2/35.7	21-RC1-11-710630	64.5/57.2
800-400	688	450	210	21-RC1-17-800400	45.5/22.7	21-RC1-11-800400	72.7/36.4
800-450	728	450	250	21-RC1-17-800450	45.5/25.5	21-RC1-11-800450	72.7/41.0
800-500	758	450	280	21-RC1-17-800500	45.5/28.3	21-RC1-11-800500	72.7/45.5
800-560	778	450	300	21-RC1-17-800560	45.5/31.7	21-RC1-11-800560	72.7/50.9
800-630	828	450	350	21-RC1-17-800630	45.5/35.7	21-RC1-11-800630	72.7/57.2
800-710	878	450	400	21-RC1-17-800710	45.5/40.2	21-RC1-11-800710	72.7/64.5
900-450	778	500	250	21-RC1-17-900450	51.2/25.5	21-RC1-11-900450	81.8/41.0
900-500	808	500	280	21-RC1-17-900500	51.2/28.3	21-RC1-11-900500	81.8/45.5
900-560	828	500	300	21-RC1-17-900560	51.2/31.7	21-RC1-11-900560	81.8/50.9
900-630	878	500	350	21-RC1-17-900630	51.2/35.7	21-RC1-11-900630	81.8/57.2
900-710	928	500	400	21-RC1-17-900710	51.2/40.2	21-RC1-11-900710	81.8/64.5
900-800	978	500	450	21-RC1-17-900800	51.2/45.5	21-RC1-11-900800	81.8/72.7
1000-500	858	550	280	21-RC1-17-100500	56.8/28.3	21-RC1-11-100500	90.9/45.5
1000-560	878	550	300	21-RC1-17-100560	56.8/31.7	21-RC1-11-100560	90.9/50.9
1000-630	928	550	350	21-RC1-17-100630	56.8/35.7	21-RC1-11-100630	90.9/57.2
1000-710	978	550	400	21-RC1-17-100710	56.8/40.2	21-RC1-11-100710	90.9/64.5
1000-800	1028	550	450	21-RC1-17-100800	56.8/45.5	21-RC1-11-100800	90.9/72.7
1000-900	1078	550	500	21-RC1-17-100900	56.8/51.2	21-RC1-11-100900	90.9/81.8
1200-560	928	600	300	21-RC1-17-120560	68.1/31.7	21-RC1-11-120560	109.0/50.9
1200-630	978	600	350	21-RC1-17-120630	68.1/35.7	21-RC1-11-120630	109.0/57.2
1200-710	1028	600	400	21-RC1-17-120710	68.1/40.2	21-RC1-11-120710	109.0/64.5
1200-800	1078	600	450	21-RC1-17-120800	68.1/45.5	21-RC1-11-120800	109.0/72.7
1200-900	1128	600	500	21-RC1-17-120900	68.1/51.2	21-RC1-11-120900	109.0/81.8
1200-1000	1178	600	550	21-RC1-17-120100	68.1/56.8	21-RC1-11-120100	109.0/90.9

PP-H END CAP

elongated
for butt welding
molded from PP-H

對接管帽
DFP CP1

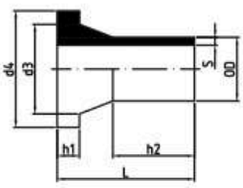


OD (mm)	L (mm)	SDR17.6 ISO S8.3 PN6		SDR11 ISO S5 PN10		SDR7.4 ISO S3.2 PN16	
		Code	S (mm)	Code	S (mm)	Code	S (mm)
20	42.0	-	-	21-CP1-0020-11	2.5	21-CP1-0020-7.25	2.8
25	50.0	-	-	21-CP1-0025-11	2.7	21-CP1-0025-7.25	3.5
32	55.0	-	-	21-CP1-0032-11	3.0	21-CP1-0032-7.25	4.5
40	60.0	-	-	21-CP1-0040-11	3.7	21-CP1-0040-7.25	5.6
50	60.0	21-CP1-0050-17.6	2.9	21-CP1-0050-11	4.6	21-CP1-0050-7.25	6.9
63	70.0	21-CP1-0063-17.6	3.6	21-CP1-0063-11	5.8	21-CP1-0063-7.25	8.7
75	80.0	21-CP1-0075-17.6	4.3	21-CP1-0075-11	6.9	21-CP1-0075-7.25	10.4
90	90.0	21-CP1-0090-17.6	5.1	21-CP1-0090-11	8.2	21-CP1-0090-7.25	12.5
110	100.0	21-CP1-0110-17.6	6.3	21-CP1-0110-11	10.0	21-CP1-0110-7.25	15.2
125	110.0	21-CP1-0125-17.6	7.1	21-CP1-0125-11	11.4	21-CP1-0125-7.25	-
140	144.0	21-CP1-0140-17.6	8.0	21-CP1-0140-11	12.8	21-CP1-0140-7.25	-
160	167.0	21-CP1-0160-17.6	9.1	21-CP1-0160-11	14.6	21-CP1-0160-7.25	-
180	191.0	21-CP1-0180-17.6	10.2	21-CP1-0180-11	16.4	21-CP1-0180-7.25	-
200	181.0	21-CP1-0200-17.6	11.4	21-CP1-0200-11	18.2	21-CP1-0200-7.25	-
225	211.5	21-CP1-0225-17.6	12.8	21-CP1-0225-11	20.5	21-CP1-0225-7.25	-
250	230.0	21-CP1-0250-17.6	14.2	21-CP1-0250-11	22.8	21-CP1-0250-7.25	-
280	257.0	21-CP1-0280-17.6	15.9	21-CP1-0280-11	25.5	21-CP1-0280-7.25	-
315	262.0	21-CP1-0315-17.6	17.9	21-CP1-0315-11	28.7	21-CP1-0315-7.25	-
355	130.0	21-CP1-0355-17.6	20.1	21-CP1-0355-11	32.3	21-CP1-0355-7.25	-
400	130.0	21-CP1-0400-17.6	22.7	21-CP1-0400-11	36.4	21-CP1-0400-7.25	-
450	130.0	21-CP1-0450-17.6	25.5	21-CP1-0450-11	41.0	21-CP1-0450-7.25	-
500	150.0	21-CP1-0500-17.6	28.3	21-CP1-0500-11	45.5	21-CP1-0500-7.25	-
560	150.0	21-CP1-0560-17.6	31.7	21-CP1-0560-11	50.9	21-CP1-0560-7.25	-
630	160.0	21-CP1-0630-17.6	35.7	21-CP1-0630-11	57.2	21-CP1-0630-7.25	-
710	160.0	21-CP1-0710-17.6	40.2	21-CP1-0710-11	64.5	21-CP1-0710-7.25	-
800	160.0	21-CP1-0800-17.6	45.5	21-CP1-0800-11	72.7	21-CP1-0800-7.25	-
900	160.0	21-CP1-0900-17.6	51.2	21-CP1-0900-11	81.8	21-CP1-0900-7.25	-
1000	160.0	21-CP1-1000-17.6	56.8	21-CP1-1000-11	90.9	21-CP1-1000-7.25	-
1200	160.0	21-CP1-1200-17.6	68.1	21-CP1-1200-11	109.0	21-CP1-1200-7.25	-

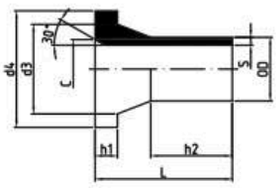
PP-H STUB FLANGE

acc. DIN 16962/16963
molded from PP-H
for butt welding

對接中間法蘭
DFP FT1



OD20 ~ OD50



OD63 ~ OD1200

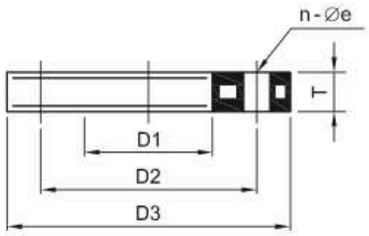


OD (mm)	h_2 (mm)	L (mm)	d_3 (mm)	d_4 (mm)	SDR17 ISO S8.3 PN6			SDR11 ISO S5 PN10		
					Code	S (mm)	h_1 (mm)	Code	S (mm)	h_1 (mm)
20	28.0	50.8	28.0	44.9	-	-	-	21-FT1-0020-11	2.5	7.2
25	30.0	51.0	32.5	57.9	-	-	-	21-FT1-0025-11	2.7	9.2
32	26.0	50.9	40.2	67.9	-	-	-	21-FT1-0032-11	3.0	10
40	22.5	50.2	50.0	77.9	-	-	-	21-FT1-0040-11	3.7	11
50	22.5	50.8	60.6	87.8	21-FT1-0050-17.6	2.9	12.2	21-FT1-0050-11	4.6	12.2
63	19.0	50.1	73.5	102.1	21-FT1-0063-17.6	3.6	14	21-FT1-0063-11	5.8	14
75	19.0	49.8	85.0	121.8	21-FT1-0075-17.6	4.3	16.1	21-FT1-0075-11	6.9	16.1
90	41.0	80.0	104	137.7	21-FT1-0090-17.6	5.1	17	21-FT1-0090-11	8.2	17
110	39.0	80.0	125	158.0	21-FT1-0110-17.6	6.3	18.2	21-FT1-0110-11	10.0	18.2
125	102.0	175.0	135	157.9	21-FT1-0125-17.6	7.1	25.5	21-FT1-0125-11	11.4	25.5
140	129.7	197.1	155	191.0	21-FT1-0140-17.6	8.0	27.4	21-FT1-0140-11	12.8	27.4
160	110.0	160.5	175	212.0	21-FT1-0160-17.6	9.1	26.2	21-FT1-0160-11	14.6	26.2
180	127.0	180	186	217	21-FT1-0180-17.6	10.2	30	21-FT1-0180-11	16.4	30
200	144.0	213	229	268	21-FT1-0200-17.6	11.4	35.5	21-FT1-0200-11	18.2	35.5
225	144.0	213	237	268	21-FT1-0225-17.6	12.8	32	21-FT1-0225-11	20.5	32
250	205.0	273	284	320	21-FT1-0250-17.6	14.2	35	21-FT1-0250-11	22.8	35
280	303.5	375	292	320	21-FT1-0280-17.6	15.9	35	21-FT1-0280-11	25.5	35
315	303.5	379	334	371	21-FT1-0315-17.6	17.9	35	21-FT1-0315-11	28.7	35
355	-	175	373	430	21-FT1-0355-17.6	20.1	35	21-FT1-0355-11	32.3	35
400	-	175	427	482	21-FT1-0400-17.6	22.7	35	21-FT1-0400-11	36.4	35
450	-	180	514	585	21-FT1-0450-17.6	25.5	46	21-FT1-0450-11	41.0	46
500	-	180	530	585	21-FT1-0500-17.6	28.3	46	21-FT1-0500-11	45.5	46
560	-	180	615	685	21-FT1-0560-17.6	31.7	50	21-FT1-0560-11	50.9	50
630	-	200	642	685	21-FT1-0630-17.6	35.7	50	21-FT1-0630-11	57.2	50
710	-	200	737	800	21-FT1-0710-17.6	40.2	60	21-FT1-0710-11	64.5	60
800	-	200	-	905	21-FT1-0800-17.6	45.5	60	21-FT1-0800-11	72.7	60
900	-	230	-	1005	21-FT1-0900-17.6	51.2	70	21-FT1-0900-11	81.8	70
1000	-	240	-	1110	21-FT1-1000-17.6	56.8	70	21-FT1-1000-11	90.9	70
1200	-	240	-	1330	21-FT1-1200-17.6	68.1	70	21-FT1-1200-11	109.0	70

BACKING RING

With steel insert
for steel beadings
acc.to DIN PN10
mold from PP grey PP black

法蘭鐵片
DFP FHD





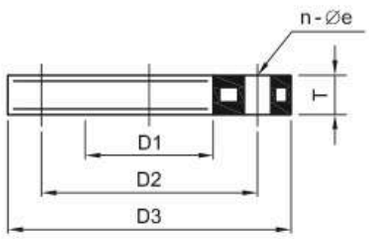
OD (mm)	D1 (mm)	D2 (mm)	D3 (mm)	e (mm)	n Number	T (mm)	SDR11 ISO S5 PN10 Code
20	28	65	95	14	4	12	31-FHD-11-0020
25	34	75	105	14	4	12	31-FHD-11-0025
32	42	85	115	14	4	16	31-FHD-11-0032
40	51	100	140	18	4	16	31-FHD-11-0040
50	62	110	150	18	4	18	31-FHD-11-0050
63	78	125	165	18	4	18	31-FHD-11-0063
75	92	145	185	18	4	18	31-FHD-11-0075
90	108	160	200	18	8	20	31-FHD-11-0090
110	128	180	220	18	8	20	31-FHD-11-0110
140	158	210	250	18	8	22	31-FHD-11-0140
160	178	240	285	23	8	22	31-FHD-11-0160
180	188	240	285	23	8	22	31-FHD-11-0180
200	235	295	340	23	8	24	31-FHD-11-0200
225	238	295	340	23	8	24	31-FHD-11-0225
250	288	350	390	23	12	26	31-FHD-11-0250
280	294	350	395	23	12	26	31-FHD-11-0280
315	338	400	445	23	12	26	31-FHD-11-0315
▲ 355	376	460	505	30	16	28	31-FHD-11-0355
▲ 400	430	515	565	30	16	28	31-FHD-11-0400
▲ 450	517	620	670	30	20	30	31-FHD-11-0450
▲ 500	533	620	670	30	20	30	31-FHD-11-0500
▲ 560	618	725	780	30	20	30	31-FHD-11-0560
▲ 630	645	725	780	30	20	30	31-FHD-11-0630
▲ 710	740	840	895	30	24	30	31-FHD-11-0710
▲ 800	840	950	1015	33	24	36	31-FHD-11-0800
▲ 900	950	1050	1115	33	28	38	31-FHD-11-0900
▲ 1000	1050	1160	1230	36	28	40	31-FHD-11-1000
▲ 1100	1155	-	1430	-	-	40	31-FHD-11-1100
▲ 1200	1260	1380	1455	39	32	40	31-FHD-11-1200

▲鋼鐵製品(Steel ones)

BACKING RING

With steel insert
acc.to ANSI standard
PP grey

法蘭鐵片150#
DFP FHA



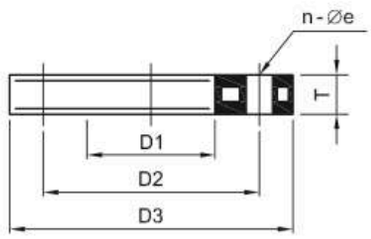


OD (inch)	D1 (mm)	D2		D3 (mm)	e (mm)	n Number	T (mm)	SDR11 ISO S5 PN10
		(mm)	(inch)					Code
1/2"	28	60.50	2-3/8"	89	16	4	12	31-FHA-11-0020
3/4"	34	69.85	2-3/4"	98	16	4	12	31-FHA-11-0025
1"	42	79.25	3-1/8"	108	16	4	16	31-FHA-11-0032
1-1/4"	51	88.90	3-1/2"	117	16	4	16	31-FHA-11-0040
1-1/2"	62	98.55	3-7/8"	127	16	4	18	31-FHA-11-0050
2"	78	120.65	4-3/4"	152	19	4	18	31-FHA-11-0063
2-1/2"	92	139.70	5-1/2"	178	19	4	18	31-FHA-11-0075
3"	111	152.40	6"	191	19	4	20	31-FHA-11-0090
4"	133	190.50	7-1/2"	229	19	8	20	31-FHA-11-0110
5"	133	190.50	7-1/2"	254	22	8	20	31-FHA-11-0125
6"	178	241.00	9-1/2"	279	22	8	24	31-FHA-11-0160
8"	236	298.45	11-3/4"	343	22	8	28	31-FHA-11-0200
10"	288	361.95	14-1/4"	406	25	12	30	31-FHA-11-0250
12"	338	431.80	17"	483	25	12	32	31-FHA-11-0315
▲ 14"	376	476.25	18-3/4"	533	29	12	28	31-FHA-11-0355
▲ 16"	430	539.75	21-1/4"	597	29	16	28	31-FHA-11-0400
▲ 18"	517	577.85	22-3/4"	635	32	16	30	31-FHA-11-0450
▲ 20"	533	635.00	25"	699	32	20	30	31-FHA-11-0500
▲ 24"	645	749.30	29-1/2"	813	35	20	30	31-FHA-11-0630
▲ 28"	740	863.35	34"	928	35	24	30	31-FHA-11-0710
▲ 32"	840	977.90	38-1/2"	1060	41	24	36	31-FHA-11-0800
▲ 36"	950	1085.9	42-3/4"	1178	41	32	38	31-FHA-11-0900
▲ 40"	1050	1174.8	46-1/4"	1286	41	32	40	31-FHA-11-1000
▲ 44"	1055	1314.5	51-3/4"	1403	41	40	40	31-FHA-11-1100
▲ 48"	1260	1422.4	56"	1512	41	44	40	31-FHA-11-1200

▲鋼鐵製品(Steel ones)

BACKING RING

With steel insert
acc.to JIS standard
PP grey
法蘭鐵片10K
DFP FHJ





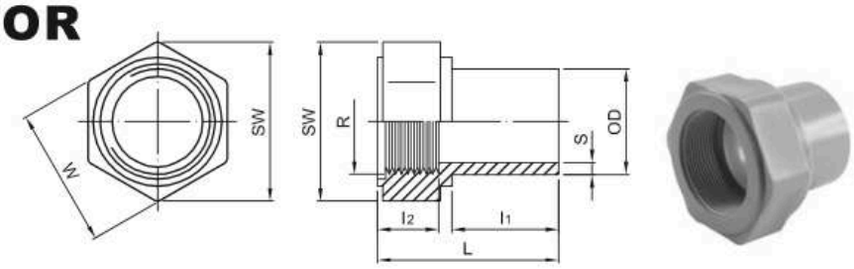
DN (inch)	D1 (mm)	D2 (mm)	D3 (mm)	e (mm)	n Number	T (mm)	SDR11 ISO S5 PN10 Code
1/2"	28	70	96	15	4	12	31-FHJ-11-0020
3/4"	34	75	100	15	4	14	31-FHJ-11-0025
1"	42	90	125	19	4	14	31-FHJ-11-0032
1-1/4"	51	100	135	19	4	14	31-FHJ-11-0040
1-1/2"	62	105	140	19	4	16	31-FHJ-11-0050
2"	78	120	155	19	4	16	31-FHJ-11-0063
2-1/2"	92	140	175	19	4	16	31-FHJ-11-0075
3"	110	150	185	19	8	18	31-FHJ-11-0090
4"	133	175	210	19	8	18	31-FHJ-11-0110
5"	160	210	250	23	8	20	31-FHJ-11-0140
6"	178	240	280	23	8	21	31-FHJ-11-0160
8"	238	290	330	23	12	21	31-FHJ-11-0225
10"	288	355	400	25	12	24	31-FHJ-11-0250
12"	338	400	445	25	16	26	31-FHJ-11-0315
▲ 14"	376	445	490	25	16	28	31-FHJ-11-0355
▲ 16"	430	510	560	27	16	28	31-FHJ-11-0400
▲ 18"	517	565	620	27	20	30	31-FHJ-11-0450
▲ 20"	533	620	675	27	20	30	31-FHJ-11-0500
▲ 24"	645	730	795	33	24	30	31-FHJ-11-0630
▲ 28"	740	840	905	33	24	30	31-FHJ-11-0710
▲ 32"	840	950	1020	33	28	36	31-FHJ-11-0800
▲ 36"	950	1050	1120	33	28	38	31-FHJ-11-0900
▲ 40"	1050	1160	1235	39	28	40	31-FHJ-11-1000
▲ 44"	1155	1275	1403	39	28	40	31-FHJ-11-1100
▲ 48"	1260	1380	1512	39	32	40	31-FHJ-11-1200

▲鋼鐵製品(Steel ones)

PP-H ADAPTOR

with female thread
for butt welding
molded from PP-H

對接內牙閥接頭
DFP FD1

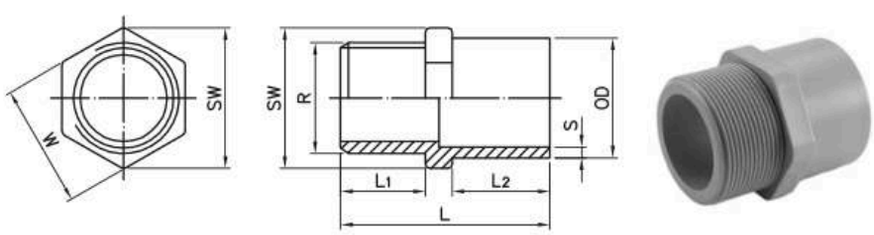


OD (mm)	S (mm)	L (mm)	L1 (mm)	L2 (mm)	R	WxSW (mm)	SDR11 ISO S5 PN10 Code
20	2.5	46	21.5	16.0	1/2" BSP	32.0x35.5	21-FD1-11-0020
25	2.7	51	25.5	17.0	3/4" BSP	40.0x45.0	21-FD1-11-0025
32	3.0	59	30.5	20.0	1" BSP	45.5x50.5	21-FD1-11-0032
40	3.7	63	30.5	24.0	1-1/4"BSP	54.5x60.0	21-FD1-11-0040
50	4.6	70	35.0	25.0	1-1/2"BSP	69.0x76.5	21-FD1-11-0050
63	5.8	76	37.0	28.5	2" BSP	84.0x93.5	21-FD1-11-0063

PP-H ADAPTOR

with male thread
for butt welding
molded from PP-H

對接外牙閥接頭
DFP MD1

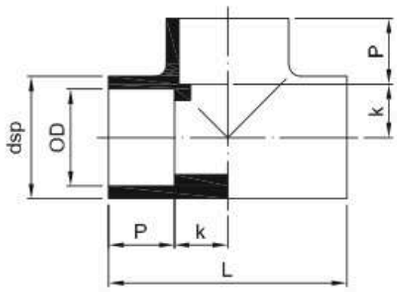


OD (mm)	S (mm)	L (mm)	L1 (mm)	L2 (mm)	R	WxSW (mm)	SDR11 ISO S5 PN10 Code
20	2.5	46.5	18.5	20.0	1/2" BSP	30.5x33.5	21-MD1-11-0020
25	2.7	51.5	21.0	22.5	3/4" BSP	37.0x41.0	21-MD1-11-0025
32	3.0	62.5	24.5	29.0	1" BSP	44.5x49.5	21-MD1-11-0032
40	3.7	67.5	27.5	29.5	1-1/4"BSP	53.5x59.0	21-MD1-11-0040
50	4.6	74.5	29.0	33.0	1-1/2"BSP	65.0x72.0	21-MD1-11-0050
63	5.8	80.0	32.0	35.5	2" BSP	81.5x91.0	21-MD1-11-0063

PP-H TEE

for socket welding
molded from PP-H

套接三通
DFP TT3



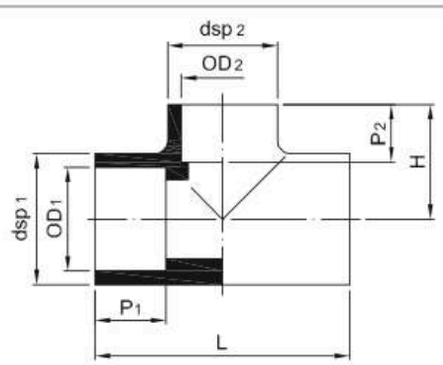


OD (mm)	dsp (mm)	k (mm)	P (mm)	L (mm)	SDR 7 ISO S5 PN10	
					Code	Weight (kg/Pc.)
16	24.0	12.5	14.5	54.0	21-TT3-11-0016	0.018
20	29.0	14.5	15.5	60.0	21-TT3-11-0020	0.026
25	35.0	16.9	17.2	68.2	21-TT3-11-0025	0.042
32	42.7	20.5	19.5	80.0	21-TT3-11-0032	0.064
40	51.5	25.8	21.2	94.0	21-TT3-11-0040	0.098
50	64.0	30.0	24.0	108.0	21-TT3-11-0050	0.164
63	80.5	34.25	28.0	124.5	21-TT3-11-0063	0.288
75	91.5	43.25	32.5	151.5	21-TT3-11-0075	0.406
90	113.5	55.1	37.5	185.2	21-TT3-11-0090	0.810
110	134.5	61.4	43.0	208.8	21-TT3-11-0110	1.108

PP-H REDUCED TEE

for socket welding
molded from PP-H

套接異徑三通
DFP TR2



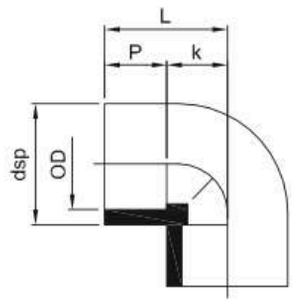


OD (mm)	H (mm)	L (mm)	dsp_1 (mm)	dsp_2 (mm)	P_1 (mm)	P_2 (mm)	SDR 7 ISO S5 PN10	
							Code	Weight (kg/Pc.)
25/20	32.0	68.5	35	29	16	14.5	21-TR2-11-025020	0.04
32/20	40.0	80.5	42.8	29	18	14.5	21-TR2-11-032020	0.05
32/25	40.0	80.5	42.8	35	18	16	21-TR2-11-032025	0.06
40/20	45.0	90.5	52	29	20.5	14.5	21-TR2-11-040020	0.08
40/25	45.0	90.5	52	35	20.5	16	21-TR2-11-040025	0.08
40/32	45.0	91.5	52	42.8	20.5	18	21-TR2-11-040032	0.10
50/20	52.5	107.0	63.8	29	23.5	14.5	21-TR2-11-050020	0.16
50/25	52.5	107.0	63.8	35	23.5	16	21-TR2-11-050025	0.16
50/32	52.5	107.0	63.8	42.8	23.5	18	21-TR2-11-050032	0.17
50/40	52.5	107.0	63.8	52	23.5	20.5	21-TR2-11-050040	0.17
63/20	64.5	128.6	80.8	29	27.5	14.5	21-TR2-11-063020	0.27
63/25	64.5	128.6	80.8	35	27.5	16	21-TR2-11-063025	0.27
63/32	64.5	128.6	80.8	42.8	27.5	18	21-TR2-11-063032	0.27
63/40	64.5	128.6	80.8	52	27.5	20.5	21-TR2-11-063040	0.28
63/50	64.5	128.6	80.8	63.8	27.5	23.5	21-TR2-11-063050	0.28

PP-H 90° ELBOW

for socket welding
molded from PP-H

套接90° 彎頭
DFP L92



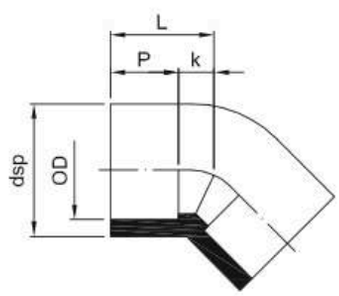


OD (mm)	dsp (mm)	P (mm)	k (mm)	L (mm)	SDR 7 ISO S5 PN10	
					Code	Weight (kg/Pc.)
16	24.0	10.0	14.5	24.5	21-L92-11-0016	0.012
20	29.0	14.8	15.5	30.3	21-L92-11-0020	0.020
25	35.2	15.3	17.3	32.6	21-L92-11-0025	0.030
32	43.2	20.75	19.7	40.45	21-L92-11-0032	0.050
40	52.0	25.0	21.3	46.3	21-L92-11-0040	0.074
50	64.0	29.0	24.0	53.0	21-L92-11-0050	0.118
63	80.8	35.0	28.0	63.0	21-L92-11-0063	0.224
75	91.5	39.0	32.5	71.5	21-L92-11-0075	0.280
90	113.0	47.0	37.5	84.5	21-L92-11-0090	0.590
110	134.2	58.0	43.0	101.0	21-L92-11-0110	0.866

PP-H 45° ELBOW

for socket welding
molded from PP-H

套接45° 彎頭
DFP L46





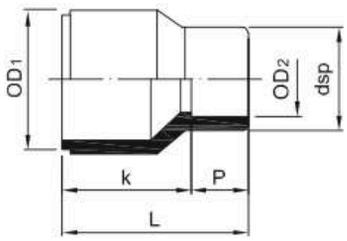
OD (mm)	dsp (mm)	P (mm)	k (mm)	L (mm)	SDR 7 ISO S5 PN10	
					Code	Weight (kg/Pc.)
16	24.3	4.25	14.8	19.05	21-L46-11-0016	0.010
20	29.5	5.20	15.5	20.7	21-L46-11-0020	0.014
25	35.1	6.60	17.2	23.8	21-L46-11-0025	0.022
32	43.2	7.10	20.0	27.1	21-L46-11-0032	0.034
40	52.2	10.0	21.3	31.3	21-L46-11-0040	0.052
50	64.3	10.9	24.5	35.4	21-L46-11-0050	0.086
63	81.0	17.8	28.3	46.1	21-L46-11-0063	0.172
75	91.5	16.1	32.5	48.6	21-L46-11-0075	0.202
90	113.5	21.8	37.5	59.3	21-L46-11-0090	0.446
110	134.5	30.0	43.0	73.0	21-L46-11-0110	0.662

PP-H REDUCER

for socket welding
molded from PP-H

套接大小頭

DFP RC2





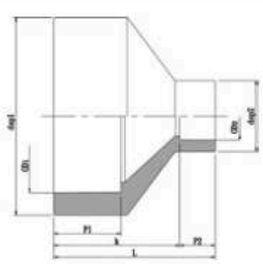
OD1/OD2 (mm)	dsp (mm)	k (mm)	P (mm)	L (mm)	SDR 7 ISO S5 PN10	
					Code	Weight (kg/Pc.)
20/16	23.5	21.0	14.0	35.0	21-RC2-11-020016	0.004
25/16	23.8	25.5	14.5	40.0	21-RC2-11-025016	0.008
25/20	28.7	24.5	15.5	40.0	21-RC2-11-025020	0.008
32/20	28.8	28.7	15.3	44.0	21-RC2-11-032020	0.012
32/25	34.0	26.5	17.5	44.0	21-RC2-11-032025	0.016
40/20	28.3	33.8	15.2	49.0	21-RC2-11-040020	0.018
40/25	34.2	32.0	17.0	49.0	21-RC2-11-040025	0.020
40/32	42.0	29.5	19.5	49.0	21-RC2-11-040032	0.024
50/20	28.5	39.8	15.2	55.0	21-RC2-11-050020	0.026
50/25	34.5	38.1	16.9	55.0	21-RC2-11-050025	0.032
50/32	43.0	35.5	19.5	55.0	21-RC2-11-050032	0.034
50/40	51.5	33.0	22.0	55.0	21-RC2-11-050040	0.038
63/25	34.6	46.3	17.2	63.5	21-RC2-11-063025	0.048
63/32	42.7	44.7	19.8	64.5	21-RC2-11-063032	0.052
63/40	51.0	42.0	21.5	63.5	21-RC2-11-063040	0.058
63/50	63.0	40.0	24.0	64.0	21-RC2-11-063050	0.068
75/63	81.0	36.1	28.2	64.3	21-RC2-11-075063	0.102
90/63	80.5	59.0	28.2	87.2	21-RC2-11-090063	0.172
90/75	91.0	54.0	32.5	86.5	21-RC2-11-090075	0.178
110/63	80.0	58.5	28.0	86.5	21-RC2-11-110063	0.224
110/90	112.0	50.1	36.5	86.6	21-RC2-11-110090	0.272

PP-H REDUCER

(two ends w/socket welding)
molded from PP-H

套接大小頭

DFP RC3 (二邊套接)



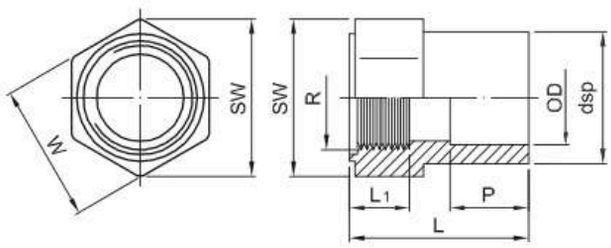
OD1/OD2 (mm)	dsp1 (mm)	dsp2 (mm)	k (mm)	P (mm)	P2 (mm)	L (mm)	SDR 7 ISO S5 PN10	
							Code	Weight (kg/Pc.)
25/20	35.00	29.00	27.50	16.00	14.50	42.00	21-RC3-7-025020	0.0179
32/20	42.80	29.00	31.50	18.00	14.50	46.00	21-RC3-7-032025	0.0239
32/25	42.80	35.00	30.00	18.00	16.00	46.00	21-RC3-7-032025	0.0263
40/20	52.00	29.00	36.50	20.50	14.50	51.00	21-RC3-7-040020	0.0345
40/25	52.00	35.00	35.00	20.50	16.00	51.00	21-RC3-7-040020	0.0369
40/32	52.00	42.80	33.00	20.50	18.00	51.00	21-RC3-7-040032	0.0402
50/20	63.80	29.00	43.50	23.50	14.50	58.00	21-RC3-7-050020	0.0523
50/25	63.80	35.00	42.00	23.50	16.00	58.00	21-RC3-7-050025	0.0547
50/32	63.80	42.80	40.00	23.50	18.00	58.00	21-RC3-7-050032	0.0582
50/40	63.80	52.00	37.50	23.50	20.50	58.00	21-RC3-7-050040	0.0636
63/20	80.80	29.00	51.50	27.50	14.50	66.00	21-RC3-7-063020	0.0922
63/25	80.80	35.00	50.00	27.50	16.00	66.00	21-RC3-7-063025	0.0946
63/32	80.80	42.80	48.00	27.50	18.00	66.00	21-RC3-7-063032	0.0980
63/40	80.80	52.00	45.50	27.50	20.50	66.00	21-RC3-7-063040	0.1030
63/50	80.80	63.80	42.50	27.50	23.50	66.00	21-RC3-7-063050	0.1110

PP-H ADAPTOR

with female thread
for socket welding
molded from PP-H

套接內牙閥接頭

DFP FD2





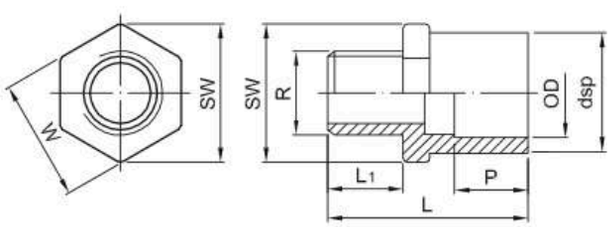
OD (mm)	dsp (mm)	L (mm)	P (mm)	L1 (mm)	R (mm)	WxSW (mm)	SDR 7 ISO S5 PN10 Code
20	28.5	46.0	29.0	16.0	1/2" BSP	32.0x35.5	21-FD2-11-0020
25	34.5	51.0	33.5	17.0	3/4" BSP	40.5x45.0	21-FD2-11-0025
32	42.5	58.0	37.5	20.0	1" BSP	45.5x50.5	21-FD2-11-0032
40	51.5	63.0	38.5	24.0	1-1/4"BSP	54.5x60.0	21-FD2-11-0040
50	63.5	69.5	44.0	25.0	1-1/2"BSP	69.5x77.0	21-FD2-11-0050
63	79.5	75.0	46.0	28.5	2" BSP	84.0x94.0	21-FD2-11-0063

PP-H ADAPTOR

with male thread
for socket welding
molded from PP-H

套接外牙閥接頭

DFP MD2



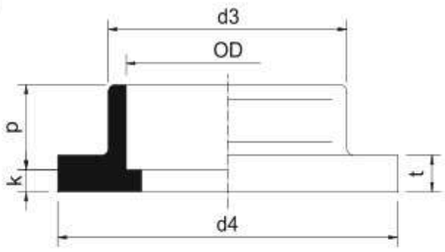


OD (mm)	dsp (mm)	L (mm)	L1 (mm)	P (mm)	R (mm)	WxSW (mm)	SDR 7 ISO S5 PN10 Code
20	28.0	46.5	18.5	15.0	1/2" BSP	30.5x33.5	21-MD2-11-0020
25	34.0	51.5	21.0	17.5	3/4" BSP	37.0x41.0	21-MD2-11-0025
32	43.0	62.5	24.5	20.0	1" BSP	44.5x49.5	21-MD2-11-0032
40	51.5	67.0	27.5	21.6	1-1/4"BSP	53.5x59.0	21-MD2-11-0040
50	63.5	74.5	29.0	24.0	1-1/2"BSP	65.0x72.0	21-MD2-11-0050
63	79.0	80.0	32.0	28.0	2" BSP	81.1x91.0	21-MD2-11-0063

PP-H FLANGE ADAPTORS

for socket welding
molded from PP-H

套接中間法蘭
DFP FT2



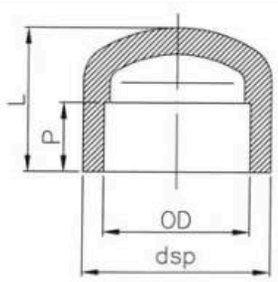


OD (mm)	d3 (mm)	d4 (mm)	t (mm)	k (mm)	P (mm)	SDR 7 ISO S5 PN10	
						Code	Weight (kg/Pc.)
20	27.6	44.8	9.6	4.6	15.8	21-FT2-11-0020	0.012
25	33.0	57.8	10.0	4.6	18.4	21-FT2-11-0025	0.022
32	41.8	67.5	10.0	5.0	20.4	21-FT2-11-0032	0.032
40	50.7	77.0	10.5	4.4	22.8	21-FT2-11-0040	0.048
50	61.4	88.0	14.9	7.0	24.3	21-FT2-11-0050	0.072
63	76.4	101.0	14.0	5.7	28.0	21-FT2-11-0063	0.090
75	90.6	120.6	15.8	5.6	32.6	21-FT2-11-0075	0.148
90	109.0	137.0	18.0	4.5	35.6	21-FT2-11-0090	0.210
110	131.5	156.8	18.0	6.5	42.0	21-FT2-11-0110	0.290

PP-H END CAP

for socket welding
molded from PP-H

套接管帽
DFP CP2



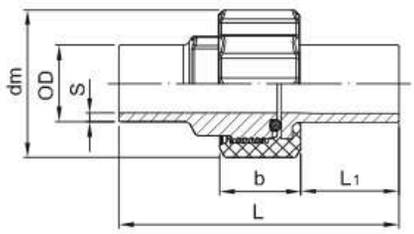


OD (mm)	dsp (mm)	L (mm)	P (mm)	SDR 7 ISO S5 PN10	
				Code	Weight (kg/Pc.)
16	24.0	24.5	14.4	21-CP2-11-0016	0.006
20	29.0	26.5	15.4	21-CP2-11-0020	0.008
25	35.0	30.0	17.0	21-CP2-11-0025	0.014
32	43.0	35.0	19.4	21-CP2-11-0032	0.024
40	52.0	39.0	21.5	21-CP2-11-0040	0.034
50	64.0	49.0	24.0	21-CP2-11-0050	0.060
63	81.0	59.5	28.3	21-CP2-11-0063	0.120
75	92.0	65.5	33.0	21-CP2-11-0075	0.146
90	113.0	76.4	37.3	21-CP2-11-0090	0.270
110	133.0	88.7	43.0	21-CP2-11-0110	0.404

PP-H UNION

with EPDM O-Ring gasket
with FPM O-Ring gasket
for butt welding
molded from PP-H

對接油任
DFP EU1



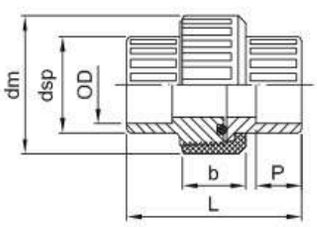


OD (mm)	S (mm)	L (mm)	L1 (mm)	dm (mm)	b (mm)	SDR11 ISO S5 PN10 Code
20	2.5	108.5	38.0	47.54	24.6	21-EU1-11-0020
25	2.7	116.5	39.3	54.89	26.5	21-EU1-11-0025
32	3.0	120.5	39.9	65.79	31.0	21-EU1-11-0032
40	3.7	127.5	42.45	80.2	31.5	21-EU1-11-0040
50	4.6	133.5	45.85	86.4	35.6	21-EU1-11-0050
63	5.8	140.5	46.0	110.5	39.5	21-EU1-11-0063

PP-H UNION

with EPDM O-Ring gasket
with FPM O-Ring gasket
for socket welding
molded from PP-H

套接油任
DFP EU2



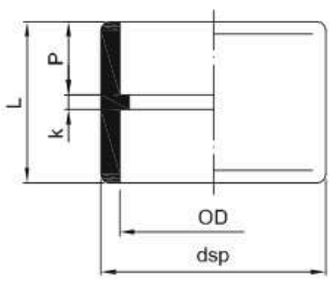


OD (mm)	dsp (mm)	L (mm)	P (mm)	dm (mm)	b (mm)	SDR 7 ISO S5 PN10	
						Code	Weight (kg/Pc.)
20	30.5	56.2	14.8	47.0	22.2	21-EU2-11-0020	0.040
25	39.0	63.7	19.8	60.3	27.0	21-EU2-11-0025	0.076
32	44.0	68.1	20.0	68.6	28.0	21-EU2-11-0032	0.100
40	51.5	80.1	24.5	80.0	29.7	21-EU2-11-0040	0.140
50	60.0	89.5	24.0	87.5	32.8	21-EU2-11-0050	0.170
63	71.5	101.8	26.7	98.8	39.6	21-EU2-11-0063	0.240
75	95.1	114.3	31.8	147.3	47.2	21-EU2-11-0075	0.676
90	111.4	134.0	36.5	179.9	64.0	21-EU2-11-0090	1.238
110	195.2	149.4	44.4	195.0	77.4	21-EU2-11-0110	1.700

PP-H SOCKET

for socket welding
molded from PP-H

平接頭
DFP CL2



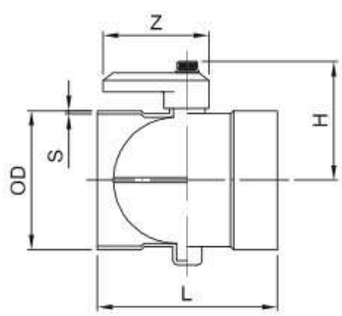


OD (mm)	dsp (mm)	k (mm)	P (mm)	L (mm)	SDR 7 ISO S5 PN10	
					Code	Weight (kg/Pc.)
16	24.0	4.1	14.7	33.5	21-CL2-11-0016	0.008
20	28.5	4.0	15.5	35.0	21-CL2-11-0020	0.012
25	34.5	5.0	17.0	39.0	21-CL2-11-0025	0.018
32	43.0	4.1	19.7	43.5	21-CL2-11-0032	0.026
40	51.5	4.0	21.5	47.0	21-CL2-11-0040	0.038
50	63.7	5.5	24.0	53.5	21-CL2-11-0050	0.062
63	79.5	5.0	28.0	61.0	21-CL2-11-0063	0.110
75	91.0	5.0	32.5	70.0	21-CL2-11-0075	0.144
90	111.0	6.0	36.5	79.0	21-CL2-11-0090	0.268
110	132.0	7.0	42.5	92.0	21-CL2-11-0110	0.372

PP-H THROTTLE VALVE

elongated
molded from PP-H

風閥
DFP VA1

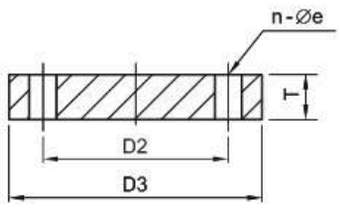


OD (mm)	H (mm)	L (mm)	Z (mm)	SDR26 ISO S12.5 PN4		
				Code	S (mm)	Weight (kg/Pc.)
75	88	95	88.5	21-VA1-17-0075	4.3	0.10
90	95	100	88.5	21-VA1-17-0090	5.1	0.18
110	107	150	88.5	21-VA1-17-0110	4.0	0.27
140	120	153	88.5	21-VA1-17-0140	5.4	0.45
160	132	150	88.5	21-VA1-17-0160	4.0	0.39
200	150	195	88.5	21-VA1-17-0200	7.7	1.26

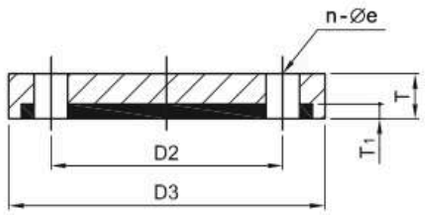
PP-H
BLIND FLANGE

MACHINED DIN PN10
molded from PP-H

盲法蘭
DFP FB1



Ø20～ Ø315



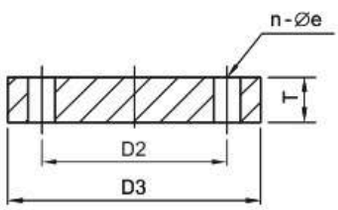
Ø355 ～ Ø1200
鋼板加PPH板(steel w/PPH sheet)

OD (mm)	D2 (mm)	D3 (mm)	e (mm)	n Number	T (mm)	T_1 (mm)	Code
20	65	95	14	4	16	-	21-FT7-33-020D
25	75	105	14	4	14	-	21-FT7-33-025D
32	85	115	14	4	18	-	21-FT7-33-032D
40	100	140	18	4	18	-	21-FT7-33-040D
50	110	150	18	4	19	-	21-FT7-33-050D
63	125	165	18	4	19	-	21-FT7-33-063D
75	145	185	18	4	19	-	21-FT7-33-075D
90	160	200	18	8	23	-	21-FT7-33-090D
110	180	220	18	8	23	-	21-FT7-33-110D
125	180	220	18	8	23	-	21-FT7-33-125D
140	210	250	18	8	23	-	21-FT7-33-140D
160	240	285	23	8	23	-	21-FT7-33-160D
180	240	285	23	8	23	-	21-FT7-33-180D
200	295	340	23	8	23	-	21-FT7-33-200D
225	295	340	23	8	23	-	21-FT7-33-225D
250	350	390	23	12	25	-	21-FT7-33-250D
280	350	395	23	12	25	-	21-FT7-33-280D
315	400	445	23	12	25	-	21-FT7-33-315D
355	460	505	30	16	28	8	21-FT7-33-355D
400	515	565	30	16	28	8	21-FT7-33-400D
450	620	670	30	20	30	8	21-FT7-33-450D
500	620	670	30	20	30	8	21-FT7-33-500D
560	725	780	30	20	30	8	21-FT7-33-560D
630	725	780	30	20	30	8	21-FT7-33-630D
710	840	895	30	24	30	8	21-FT7-33-710D
800	950	1015	33	24	36	8	21-FT7-33-800D
900	1050	1115	33	28	38	8	21-FT7-33-900D
1000	1160	1230	36	28	40	8	21-FT7-33-1000D
1100	-	-	-	-	40	8	21-FT7-33-1100D
1200	1380	1455	39	32	40	8	21-FT7-33-1200D

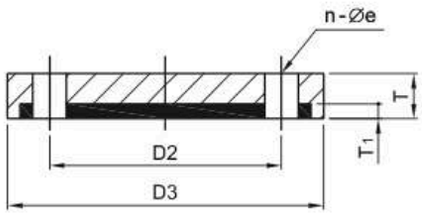
PP-H
BLIND FLANGE

MACHINED ANSI 150#
molded from PP-H

盲法蘭
DFP FT7



Ø20～ Ø315



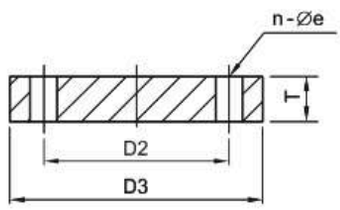
Ø355 ～ Ø1200
鋼板加PPH板(steel w/PPH sheet)

OD (mm)	DN (inch)	D2 (mm)	D3 (mm)	e (mm)	n Number	T (mm)	T_1 (mm)	Code
20	1/2"	60	89	16	4	16	-	21-FT7-33-020A
25	3/4"	70	98	16	4	14	-	21-FT7-33-025A
32	1"	79	108	16	4	18	-	21-FT7-33-032A
40	1-1/4"	89	117	16	4	18	-	21-FT7-33-040A
50	1-1/2"	98	127	16	4	19	-	21-FT7-33-050A
63	2"	121	152	19	4	19	-	21-FT7-33-063A
75	2-1/2"	140	178	19	4	19	-	21-FT7-33-075A
90	3"	152	191	19	4	23	-	21-FT7-33-090A
110	4"	191	229	19	8	23	-	21-FT7-33-110A
140	5"	216	254	22	8	23	-	21-FT7-33-140A
160	6"	241	279	22	8	23	-	21-FT7-33-160A
200	8"	298	343	22	8	23	-	21-FT7-33-200A
250	10"	362	406	25	12	25	-	21-FT7-33-250A
315	12"	432	483	25	12	25	-	21-FT7-33-315A
355	14"	476	533	29	12	28	8	21-FT7-33-355A
400	16"	540	597	29	16	28	8	21-FT7-33-400A
450	18"	578	635	32	16	30	8	21-FT7-33-450A
500	20"	635	699	32	20	30	8	21-FT7-33-500A
630	24"	749	813	35	20	30	8	21-FT7-33-630A
710	28"	863	928	35	24	30	8	21-FT7-33-710A
800	32"	978	1060	41	24	36	8	21-FT7-33-800A
900	36"	1086	1178	41	32	38	8	21-FT7-33-900A
1000	40"	1175	1286	41	32	40	8	21-FT7-33-1000A
1100	44"	1314	1403	41	40	40	8	21-FT7-33-1100A
1200	48"	1422	1512	41	44	40	8	21-FT7-33-1200A

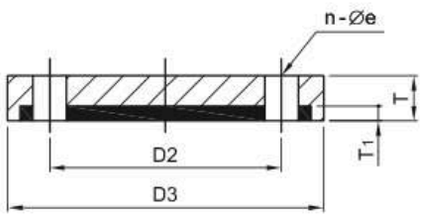
PP-H
BLIND FLANGE

MACHINED JIS 10K
molded form PP-H

盲法蘭
DFP FT7



Ø20～ Ø315

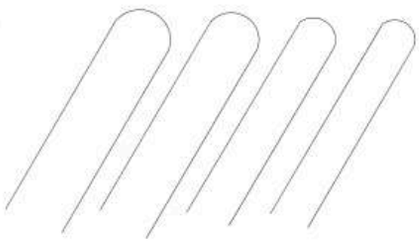


Ø355 ～ Ø1200
鋼板加PPH板(steel w/PPH sheet)

OD (mm)	DN (inch)	D2 (mm)	D3 (mm)	e (mm)	n Number	T (mm)	T_1 (mm)	Code
20	1/2"	70	95	15	4	16	-	21-FT7-33-020J
25	3/4"	75	100	15	4	14	-	21-FT7-33-025J
32	1"	90	125	19	4	18	-	21-FT7-33-032J
40	1-1/4"	100	135	19	4	18	-	21-FT7-33-040J
50	1-1/2"	105	140	16	4	19	-	21-FT7-33-050J
63	2"	120	155	19	4	19	-	21-FT7-33-063J
75	2-1/2"	140	175	19	4	19	-	21-FT7-33-075J
90	3"	150	185	19	8	23	-	21-FT7-33-090J
110	4"	175	210	19	8	23	-	21-FT7-33-110J
140	5"	210	250	23	8	23	-	21-FT7-33-140J
160	6"	240	280	23	8	23	-	21-FT7-33-160J
200	8"	290	330	23	12	23	-	21-FT7-33-200J
250	10"	355	400	25	12	25	-	21-FT7-33-250J
315	12"	400	445	25	16	25	-	21-FT7-33-315J
355	14"	445	490	25	16	25	8	21-FT7-33-355J
400	16"	510	560	27	16	28	8	21-FT7-33-400J
450	18"	565	620	27	20	30	8	21-FT7-33-450J
500	20"	620	675	27	20	30	8	21-FT7-33-500J
630	24"	730	795	33	24	30	8	21-FT7-33-630J
710	28"	840	905	33	24	30	8	21-FT7-33-710J
800	32"	950	1020	33	28	36	8	21-FT7-33-800J
900	36"	1050	1120	33	28	38	8	21-FT7-33-900J
1000	40"	1160	1235	39	28	40	8	21-FT7-33-1000J
1100	44"	1275	1403	39	28	40	8	21-FT7-33-1100J
1200	48"	1380	1512	39	32	40	8	21-FT7-33-1200J

PP-H ROUND BAR

molded from PP-H
Storage length:1m
(Special lengths on request)



圓棒
DFP PR1

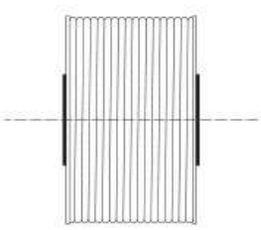
OD (mm)	Tolerance		Material	
	Minimum (mm)	Maximum (mm)	Weight (mm)	Code
10	+0.1	+0.6	0.076	21-PR1-0010
12	+0.1	+0.6	0.103	21-PR1-0012
15	+0.2	+0.7	0.177	21-PR1-0015
16	+0.2	+0.8	0.195	21-PR1-0016
20	+0.2	+1.0	0.303	21-PR1-0020
25	+0.2	+1.1	0.470	21-PR1-0025
30	+0.2	+1.2	0.674	21-PR1-0030
35	+0.2	+1.3	0.931	21-PR1-0035
40	+0.2	+1.5	1.19	21-PR1-0040
45	+0.3	+1.7	1.51	21-PR1-0045
50	+0.3	+2.0	1.87	21-PR1-0050
55	+0.3	+2.1	2.26	21-PR1-0055
60	+0.3	+2.3	2.69	21-PR1-0060
70	+0.3	+2.5	3.64	21-PR1-0070
75	+0.3	+2.5	4.19	21-PR1-0075

OD (mm)	Tolerance		Material	
	Minimum (mm)	Maximum (mm)	Weight (mm)	Code
80	+0.4	+2.5	4.74	21-PR1-0080
90	+0.5	+2.8	5.99	21-PR1-0090
100	+0.6	+3.0	7.40	21-PR1-0100
110	+0.7	+3.0	8.94	21-PR1-0110
125	+0.8	+3.5	11.6	21-PR1-0125
135	+0.8	+3.5	13.9	21-PR1-0135
140	+0.9	+4.0	14.5	21-PR1-0140
150	+1.0	+4.2	16.6	21-PR1-0150
160	+1.1	+4.5	18.9	21-PR1-0160
180	+1.2	+5.0	23.9	21-PR1-0180
200	+1.3	+5.5	30.0	21-PR1-0200
220	+1.3	+5.5	36.1	21-PR1-0220
250	+1.3	+6.0	46.5	21-PR1-0250
300	+1.3	+7.0	66.7	21-PR1-0300
315	+1.3	+8.0	70.9	21-PR1-0315

WELDING ROD

NATURAL

焊條
DFP PW1



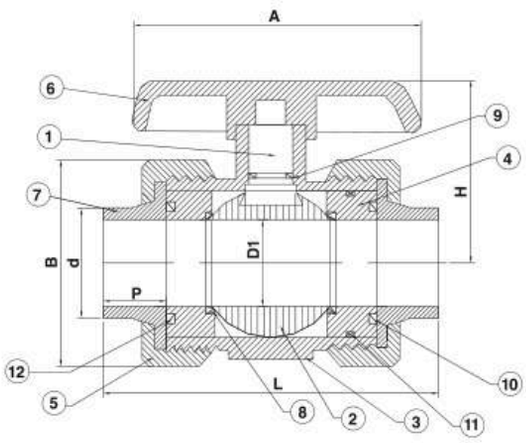
Design	Diameter (mm)	Weight (kg/coil)	Code
Welding rod extruded, round	Ø3	ca.4.5kg	21-PW1-0003
	Ø4	ca.4.5kg	21-PW1-0004

TRUE UNION BALL VALVE (Butt Welding type)

雙由任球閥(面對面焊接型)

CW100 Size:1/2"-4"





DN15 ~ DN100

MATERIALS OF CONSTRUCTION

Item	Parts	Pcs	Material	Item	Parts	Pcs	Material
1	STEM	1	PPG ,PVDF	7	CONNECTOR	2	PP,PVDF
2	BALL	1	PP,PVDF	8	SEAT	2	PTFE
3	BODY	1	PP,PVDF	9	STEM O-RING	DN15-50 1 DN65-100 2	EPDM,VITON
4	SEAT CARRIER	1	PP,PVDF	10	SEAT CARRIER O-RING	1	EPDM,VITON
5	UNION NUT	2	PP,PVDF	11	BODY O-RING	1	EPDM,VITON
6	HANDLE	1	ABS	12	SOLID END O-RING	1	EPDM,VITON

DIMENSIONS TABLE

DIN

Unit:mm

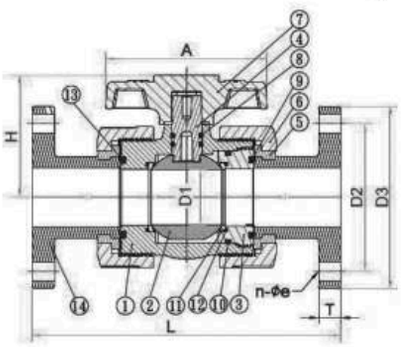
Nom Size DN-inch	D1	d	P	L	A	H	B	Test Pressure (bar)	Working Pressure (bar)
15(1/2")	14	20	16.0	163	82	51	47	15	10
20(3/4")	19	25	18.5	174	101	59	60	15	10
25(1")	25	32	22.0	182	111	70	68	15	10
32(1-1/4")	38	40	26.0	197	126	83	80	15	10
40(1-1/2")	38	50	31.0	191	126	83	92	15	10
50(2")	49	63	37.5	208	152	102	111	15	10
65(2-1/2")	67	75	43.5	212.5	190	140	148	10	7
80(3")	78	90	51.0	309	230	165	181	10	7
100(4")	101	110	61.0	358	274	169.3	222	10	7

TRUE UNION (DOUBLE UNION) BALL VALVE

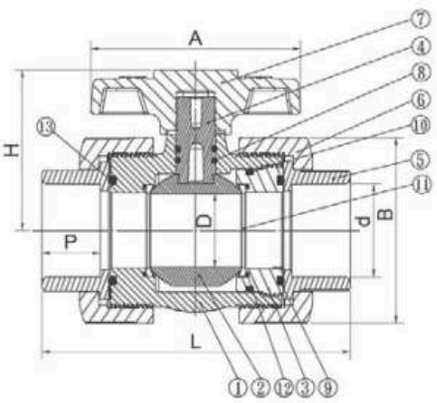
雙油任球閥

CD100 SOCKET
CD200 THREAD
CD300 FLANGE
Size: 1/2"- 4"

本產品榮獲NSF 14/NSF 61認證合格

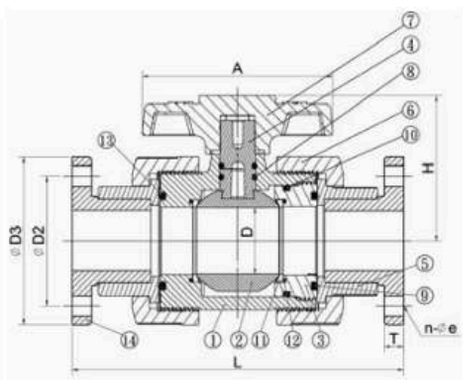


15A-50A FLANGE TYPE



SOCKET & THREAD TYPE





65A-100A FLANGE TYPE

MATERIALS OF CONSTRUCTION

Item	Parts	Pcs	Materials	Item	Parts	Pcs	Materials
1	BODY	1	UPVC,PP,CPVC,PVDF	8	STEM O'RING	2	EPDM,VITON
2	BALL	1	UPVC,PP,CPVC,PVDF	9	END'S O'RING	1	EPDM,VITON
3	SEAT CARRIER	1	UPVC,PP,CPVC,PVDF	10	BODY O'RING	1	EPDM,VITON
4	STEM	1	UPVC,PP,CPVC,PVDF	11	SEAT	1	PTFE
5	END CONNECTOR	2	UPVC,PP,CPVC,PVDF	12	SOLID CARRIER O'RING	2	EPDM,VITON
6	UNION NUT	2	UPVC,PP,CPVC,PVDF	13	SOLID END O'RING	1	EPDM,VITON
7	HANDLE	1	ABS	14	FLANGE	2	UPVC,PP,CPVC,PVDF

DIN — Unit:mm

Nom Size DN-inch	D1	D2	D3	d		Øe	n	P	L			A	T	H	B	TestPress (bar)	Working press (bar)
				Socket	Thread				Socket	Thread	Flange						
15(1/2")	15	65	95	20	R1/2	14	4	16.0	112	112	152	82	15	61	47	24	16
20(3/4")	20	75	105	25	R3/4	14	4	18.5	130	130	170	101	15	65	61	24	16
25(1")	25	85	115	32	R1	14	4	22.0	144	144	189	110	17	70	70	24	16
32(1-1/4")	38	100	140	40	R1-1/4	18	4	26.0	167	167	211	126	17	83	93	24	16
40(1-1/2")	38	110	150	50	R1-1/2	18	4	31.0	185	185	232	126	17	88.7	93	24	16
50(2")	48	125	165	63	RT2	18	4	37.5	198	198	250	152	20	108.5	113	24	16
65(2-1/2")	65	145	185	75	R2-1/2	18	4	43.5	228	228	279	190	20	140	150	15	10
80(3")	78	160	200	90	R3	18	8	51.0	273	273	328	230	23	165	184	15	10
100(4")	102	180	220	110	R4	18	8	61.0	323	323	378	274	23	172	226	15	10

※ 本尺表以 PVC 材質為準，本表試壓值以 PVC、PVDF材質為基準，PP材質試壓值為本表試壓值之 70%.
※ 法蘭長度公差依據 EN558-1:1995 標準

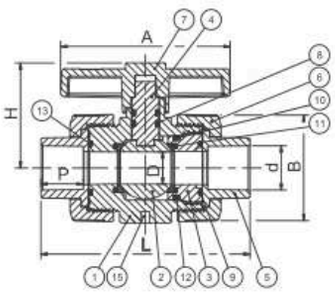
※ The dimension table is calculably based on PVC material.
The valve of test pressure is calculably based on PVC PVDF materials.
The valve of test pressure for PP material is 70% based on the table.
The flanged length tolerance is according to EN558-1:1995.

TRUE UNION SAFETY BLOCK BALL VALVE WITH MOUNTING PADS

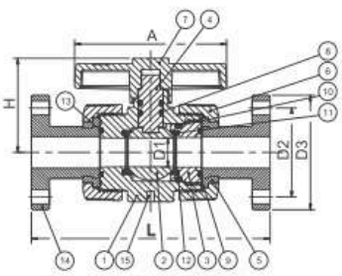
安全球閥加埋銅座

CH100 SOCKET/ CH200 THERAD/ CH300 FLANGED
Size:DN15-DN100

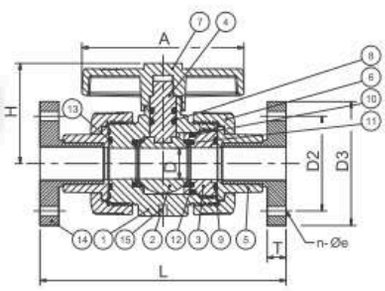




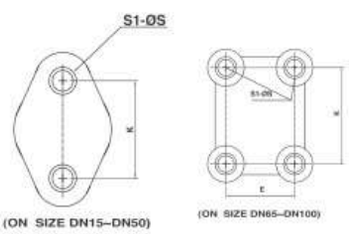
SOCKET & SCREW TYPE



15A ~ 50A FLANGE TYPE



65A ~ 100A FLANGE TYPE



END VIEW
Bolts inserted pad pattern

MATERIALS OF CONSTRUCTION

No.	Parts	Pcs	Materials	No.	Parts	Pcs	Materials
1	BODY	1	UPVC , PP , CPVC , PVDF	9	SOLID END O-RING	1	EPDM , VITON
2	BALL	1	UPVC , PP , CPVC , PVDF	10	SEAT	2	TEFLON
3	STEM	1	UPVC , PP , CPVC , PVDF	11	SEAT CARRIER O-RING	1	EPDM , VITON
4	SEAT CARRIER	1	UPVC , PP , CPVC , PVDF	12	BODY O-RING	1	EPDM , VITON
5	END CONNECTOR	2	UPVC , PP , CPVC , PVDF	13	SEAT O-RING	2	EPDM , VITON
6	UNION NUT	2	UPVC , PP , CPVC , PVDF	14	FLANGES	2	UPVC , PP , CPVC , PVDF
7	HANDLE	1	ABS	15	MOUNTING PAD (UP&DOWN)	15A-50A 4 65A-100A 8	BRASS , SUS304
8	SEAT O-RING	15A-50A 2 65A-100A 2	EPDM , VITON				

DIMENSIONS TABLE

DIN — Unit : mm

Nominal Pipe Size	D1	D2	D3	d		e	n	P	L			H	A	B	T	K	E	S	S1	Test press (bar)	Working press (bar)
				Socket	Thread				Socket	Thread	Flange										
15(1/2")	15	65	95	20	R1/2"	14	4	16.0	115	115	153	51	82.7	53.2	15	31	–	4	4	24	16
20(3/4")	19	75	105	25	R3/4"	14	4	18.5	126	126	165	63	101.2	63	15	37	–	6	4	24	16
25(1")	25	85	115	32	R1"	14	4	22.0	144	144	189	72	111.8	72.2	17	40	–	6	4	24	16
32(1-1/4")	38	100	140	40	R1-1/4"	18	4	26.0	181	181	226	86	121.4	97	17	55	–	8	4	24	16
40(1-1/2")	38	110	150	50	R1-1/2"	18	4	31.0	181	181	226	86	121.4	97	19	55	–	8	4	24	16
50(2")	48	125	165	63	R2"	18	4	37.5	202	202	253	100	149.3	118.9	21	68	–	8	4	24	16
65(2-1/2")	65	145	185	75	R2-1/2"	18	4	43.5	227	227	281	140	190	150.1	21	80	41	8	8	15	10
80(3")	78	160	200	90	R3"	18	8	51.0	275	275	330	165.1	230.1	183.9	22	80	41	8	8	15	10
100(4")	102	180	220	110	R4"	18	8	61.0	321	321	378	172	274	226	22	121	50	8	8	15	10

※ 本尺表以 PVC 材質為準，本表試壓值以 PVC、PVDF材質為基準，PP材質試壓值為本表試壓值之 70%.

※ 法蘭長度公差依據 EN558-1:1995 標準

※ The dimension table is calculably based on PVC material.
The valve of test pressure is calculably based on PVC PVDF materials.
The valve of test pressure for PP material is 70% based on the table.
The flanged length tolerance is according to EN558-1:1995.

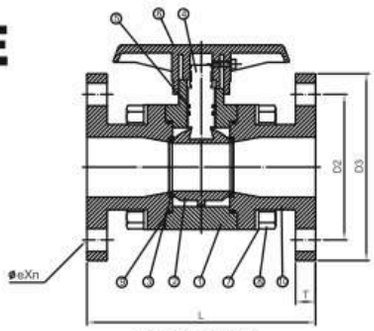
STRONG UNION BALL VALVE

強力型球閥

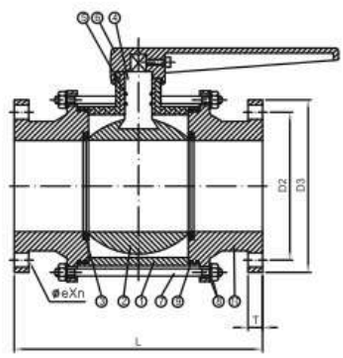
CG300

Size: DN15-DN150





DN015~DN080



DN100~DN150

SPECIFICATIONS:

1.Test Press: ①{15mm-1/2"~65mm-2 1/2"}:15kgf/cm² (bar)(235 lb/in²)
② {80mm-3"~150mm-6" } : 10kgf/cm² (bar)(150 lb/in²)

2.Working Press: ① {15mm-1/2"~65mm-2 1/2"}:10kgf/cm² (bar)(150 lb/in²)
② {80mm-3"~150mm-6" } : 7kgf/cm² (bar)(100 lb/in²)

MATERIALS OF CONSTRUCTION

No.	Parts	Pcs	Materials	No.	Parts	Pcs	Materials
1	Body	1	UPVC, CPVC, PP, PVDF	6	Handle	1	15A~150A.....ABS
2	Ball	1	UPVC, CPVC, PP, PVDF	7	Bolt	15A-32A 4 40A-80A 6	SUS-304
3	Seat	2	TEFLON	8	NUT&WASHER	100A 8 150A 10	40A-80A PVC COATED BRASS 15A-32A,100A-150A SUS-304
4	Shaft	1	UPVC, CPVC, PPG, PVDF	9	Flange O-Ring	15A-65A 2 80A-150A 4	EPDM, VITON
5	O-Ring	15A,20A 1 25A~150A 2	EPDM, VITON	10	Flange	2	UPVC, CPVC, PP, PVDF

DIMENSIONS TABLE

Standards Nom. Size DN(inch)	JIS Unit:mm						ANSI Unit:inch						DIN Unit:mm					
	D3	D2	L Flange end	n	øe	T	D3	D2	L Flange end	n	øe	T	D3	D2	L Flange end	n	øe	T
15(1/2")	95	70	146	4	15	13	3.50	2.38	5.75	4	0.63	0.51	95	65	146	4	14	13
20(3/4")	100	75	152	4	15	15	3.88	2.76	5.98	4	0.63	0.59	105	75	152	4	14	15
25(1")	125	90	172	4	19	16	4.25	3.13	6.77	4	0.63	0.63	115	85	172	4	14	16
32(1-1/4")	135	100	175	4	19	16	4.62	3.50	6.89	4	0.71	0.63	140	100	175	4	18	16
40(1-1/2")	140	105	182	4	19	18	5.00	3.88	7.17	4	0.71	0.71	150	110	182	4	18	18
50(2")	155	120	189	4	19	18	6.00	4.74	7.44	4	0.71	0.71	165	125	189	4	18	18
65(2-1/2")	175	140	218	4	19	20	7.00	5.49	8.58	4	0.75	0.78	185	145	218	4	18	20
80(3")	185	150	244	8	19	20	7.50	6.00	9.61	4	0.75	0.78	200	160	244	8	18	20
100(4")	210	175	296	8	19	23	9.00	7.50	11.65	8	0.78	0.90	220	180	296	8	18	23
125(5")	250	210	390	8	23	24	10.00	8.50	15.35	8	0.87	0.94	250	210	390	8	18	24
150(6)	280	240	390	8	23	24	11.00	9.50	15.35	8	0.87	0.94	280	240	390	8	23	24

※ 本尺表以 PVC 材質為準，本表試壓值以 PVC、PVDF材質為基準，PP材質試壓值為本表試壓值之 70%.
※ 法蘭長度公差依據 EN558-1:1995 標準

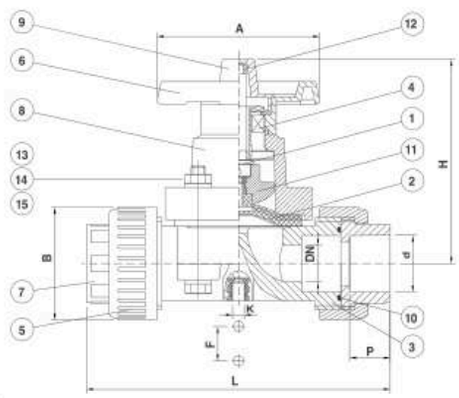
※ The dimension table is calculably based on PVC material.
The valve of test pressure is calculably based on PVC PVDF materials.
The valve of test pressure for PP material is 70% based on the table.
The flanged length tolerance is according to EN558-1:1995.

TRUE UNION DIAPHRAGM VALVE

油任式隔膜閥（插管式、牙口式）
DF100 SOCKET / DF200 THREAD

DE100/DE200 PVDF 3 LAYS DIAPHRAGM VALVE
適用於高腐蝕流體的氣化滲透、電解液等耐酸碱專用
Suitable to the protect diaphragm from the gas permeation in the corrosion resistance and electrolytic chlorine gas.





DN15~DN50

TORQUE VALUE(扭力值)

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

1Kg.m=0.0981N.m

CV VALUE

CV值 【GMP/(1lbf/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

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、PVDF 3 LAYS	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	Washer spring washer	8	SUS304
8	Bonnet	1	UPVC, PP, CPVC, PVDF				
8-1	Bonnet Board	1	SUS304				

DIMENSIONS TABLE

Standards / Nom. Size	JIS Unit: mm											ANSI Unit: inch										DIN Unit: mm									
	d		P	B	L	H	A	F	K	Test Pres, (kgf/cm²)		d		P	B	L	H	A	F	K	Test Pres, (lb/in²)		d		P	B	L	H	A	F	K	Test Pres (kgf/cm²)	
	Socket	Thread								Ptfe dia.	Rubber Dia.	Socket	Thread								Ptfe dia.	Rubber Dia.	Socket	Thread								Ptfe dia.	Rubber Dia.
15(1/2")	22	PT1/2	22.2	54	166	107.5	81	25	8	10	10	0.84	NPT1/2	0.875	2.126	6.53	4.23	3.189	0.984	0.315	150	150	20	R1/2	16.0	54	166	107.5	81	25	8	10	10
20(3/4")	26	PT3/4	25.4	54	166	107.5	81	25	8	10	10	1.05	NPT3/4	1.000	2.126	6.53	4.23	3.189	0.984	0.315	150	150	25	R1/4	18.5	54	166	107.5	81	25	8	10	10
25(1")	32	PT1	28.6	63	183	116	91	25	8	10	10	1.32	NPT1	1.125	2.480	7.2	4.567	3.583	0.984	0.315	150	150	32	R1	22.0	63	183	116	91	25	8	10	10
32(11/4")	38	PT11/4	31.8	89	238	142	117	45	8	10	10	1.66	NPT1-1/4	1.250	3.5	9.37	5.591	4.606	1.772	0.315	150	150	40	R1-1/4	26.0	89	238	142	117	45	8	10	10
40(11/2")	48	PT11/2	34.9	89	238	142	117	45	8	10	10	1.90	NPT1-1/2	1.375	3.5	9.37	5.591	4.606	1.772	0.315	150	150	50	R1-1/2	31.0	89	238	142	117	45	8	10	10
50(2")	60	PT2	38.1	101	273	176	150	45	8	10	10	2.38	NPT2	1.500	3.97	10.74	6.929	5.906	1.772	0.315	150	150	63	R2	37.5	101	273	176	150	45	8	10	10

※Standard dimensions based on PVC material

DIAPHRAGM VALVE / Flanged type

隔膜凡而(法蘭式)

DF300
Size: DN15~DN250

DE300 PVDF 3 LAYS DIAPHRAGM VALVE
適用於高腐蝕流體的氣化滲透、電解液等耐酸碱專用
Suitable to the protect diaphragm from the gas permeation in the corrosion resistance and electrolytic chlorine gas.



MATERIALS OF CONSTRUCTION

No.	Parts	Pcs.	Materials	No.	Parts	Pcs.	Materials
1	Body	1	UPVC, PP, CPVC, PPG, PVDF	10	Name Plate	1	PVC
2	Bonnet	1	PPG,PVDF	11	Grease Nipple	1	SUS304
3	Compressor	1	15A-25A PVDF 40A-250A FC20	12	Stud Bolt & Nut	4 ····· 15A-25A 6 ····· 40A-50A 8 ····· 65A-125A 12 ····· 150A 16 ····· 200A 20 ····· 250A	SUS304 BSBM SUS304
4	Hand Wheel	1	PP,ABS	13	Inserted Nut		
5	Sleeve	1	15A-50A BSBM 65A-250A FC25	14	Bolt Nut & Washer		
6	Stem	1	15A-50A BSBM 65A-250A SS41	15	thrust Bearing	1	Standardized 80A-250A USED ONLY
7	Diaphragm	1	EPDM,HYPALON TEFLON PVDF 3 lays	16	Stopper	1	SS-41 BSBM SUS304
7-1	Upper Board	1	SUS304	17	Set Nut	1	SS41 BSBM SUS304
7-2	Down Board	2	SUS304	18	Gauge Cover	1	PC
8	Cap	1	15A-25A BSBH 40A-250A PVC	19	Sheet Ring	1	EPDM
9	Compressor Pin	1	SUS-304	20	Washer	1	SUS304

Note : 1. SUS 304 .....Stainless Steel AISI 304
2. SS 41 .....Rolled steel for General Structure
3. BSBM .....Free Cutting Brass Bar
4. FC 20.....Grav Cast Iron
5. SUP.....Steel for Spring ASTM A-230-68

※第3、5、6、12、14項材質如用SUS-304或SUS-316為特殊規格，價格另計。
※PVDF隔膜閥上蓋(BONNET)標準材質用PPG，如須使用PVDF上蓋為特殊規格，價格另計。

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.

®VITION & TEFLON are tradmarks of E.I. Du Pont

DIMENSIONS TABLE

JIS												Unit: mm	PRESS Test for Assembly (at 20℃)									
													Test Pressure Unit: kgf/cm²									
													Rubber Diaphragm					Teflon Diaphragm				
Nom. Size m/m(inch)	D1	D2	D3	e	n No. of holes	D4	D5	Lift ℓ	L	T	H	I	UPVC	PP	PPG	CPVC	PVDF	UPVC	PP	PPG	CPVC	PVDF
15(1/2")	16	70	91.5	15	4	58x51	94	13	110	15	101	140	10	10	10	10	10	10	10	10	10	10
20(3/4")	20	75	97	15	4	70x60	94	13	120	17	106	152	10	10	10	10	10	10	10	10	10	10
25(1")	25	90	125	19	4	79x65	94	14	130	17	113	158	10	10	10	10	10	10	10	10	10	10
40(1-1/2")	41	105	135	19	4	123	147	24	180	19	133	193	10	10	10	10	10	10	10	10	10	10
50(2")	52	120	151	19	4	148	147	28	210	19	145	210	10	10	10	10	10	10	10	10	10	10
65(2-1/2")	68	140	185	19	4	183	202	32	250	24	197	276	10	10	10	10	10	10	7	7	10	10
80(3")	78	150	183.5	19	8	201	202	34	280	23	218	293	10	10	10	10	10	10	7	7	10	10
100(4")	100	175	210	19	8	250	241	54	340	24	261	370	10	10	10	10	10	10	7	7	10	10
125(5")	125	210	250	23	8	321	274	72	410	26	308	412	10	7	7	10	10	7	7	7	7	7
150(6")	148	240	282	23	8	382	395	72	480	33	334	471	10	7	7	10	10	7	7	7	7	7
200(8")	198	290	337	23	12	431	395	96	570	33	419	625	7	5	5	7	7	5	5	5	5	5
250(10")	248	355	397	25	12	529	555	132	680	38	510	750	7	5	5	7	7	5	5	5	5	5

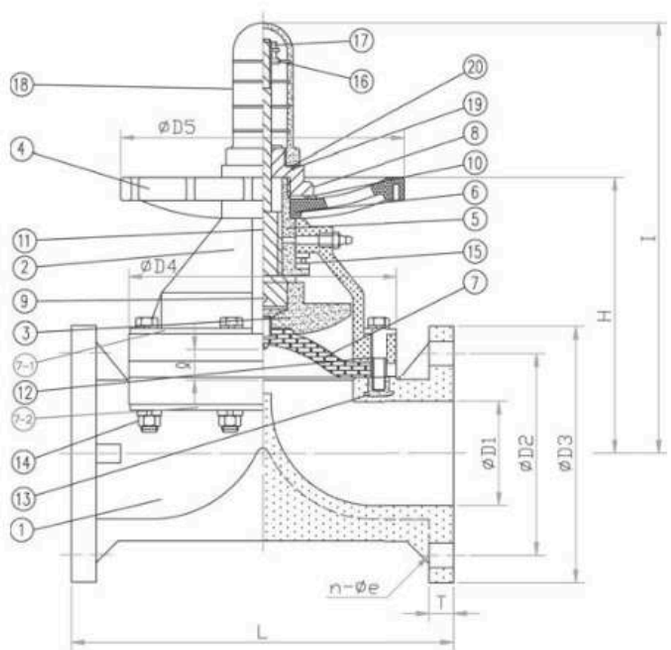
CV VALUE

CV值 【GMP/(1lbf/in²)^1/2】	
Full Open: 100%	
尺寸	CV值
1/2"	3.27
3/4"	5.29
1"	8.87
1-1/2"	31.09
2"	43.15
2-1/2"	90.68
3"	116.79
4"	186.78
6"	345.26

BOLTS TORQUE VALUE

SIZE	Kg.m	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

1Kg.cm=0.0981N.m



DIMENSIONS TABLE

ANSI Unit: inch

Nom. Size m/m(inch)	D1	D2	D3	e	n No. of holes	D4	D5	Lift ℓ	L	T	H	I	PRESS Test for Assembly (at 20°C) 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	2.28x2	3.70	0.51	4.25	0.59	3.98	5.51	150	150	150	150	150	150	150	150	150	150
20(3/4")	0.79	2.76	3.86	0.63	4	2.76x2.36	3.70	0.51	5.90	0.63	4.17	5.98	150	150	150	150	150	150	150	150	150	150
25(1")	0.98	3.13	4.25	0.63	4	3.11x2.56	3.70	0.55	5.90	0.63	4.45	6.22	150	150	150	150	150	150	150	150	150	150
40(1-1/2")	1.61	3.88	5.00	0.63	4	4.84	5.79	0.94	6.95	0.67	5.24	7.60	150	150	150	150	150	150	150	150	150	150
50(2")	2.05	4.74	5.98	0.75	4	5.83	5.79	1.10	7.95	0.67	5.71	8.27	150	150	150	150	150	150	150	150	150	150
65(2-1/2")	2.68	5.49	7.01	0.75	4	7.20	7.95	1.26	9.85	0.87	7.76	10.87	150	150	150	150	150	150	105	105	150	150
80(3")	3.07	6.00	7.52	0.75	4	7.91	7.95	1.34	10.40	0.75	8.50	11.54	150	150	150	150	150	150	105	105	150	150
100(4")	3.94	7.50	9.17	0.75	8	9.84	9.49	2.13	12.95	0.91	10.28	14.57	150	150	150	150	150	150	105	105	150	150
125(5")	4.92	8.50	10.00	0.87	8	12.64	10.79	2.83	16.14	0.94	12.13	16.22	150	105	105	150	150	105	105	105	105	150
150(6")	5.83	9.51	10.98	0.87	8	15.04	15.55	2.83	18.90	1.18	13.15	18.54	150	105	105	150	150	105	105	105	105	150
200(8")	7.80	11.75	13.50	0.87	8	16.97	15.55	3.78	22.44	1.26	16.40	24.61	105	75	75	105	105	75	75	75	75	105
250(10")	9.76	14.25	15.98	0.98	12	20.83	21.85	5.20	26.77	1.26	20.08	29.53	105	75	75	105	105	75	75	75	75	105

DIN Unit: mm

Nom. Size m/m(inch)	D1	D2	D3	e	n No. of holes	D4	D5	Lift ℓ	L	T	H	I	PRESS Test for Assembly (at 20°C) Test Pressure Unit: (bar)									
													Rubber Diaphragm					Teflon Diaphragm				
													UPVC	PP	PPG	CPVC	PVDF	UPVC	PP	PPG	CPVC	PVDF
15(1/2")	16	65	95	14	4	58x51	94	13	130	23	101	140	10	10	10	10	10	10	10	10	10	10
20(3/4")	20	75	105	14	4	70x60	94	13	150	23	106	152	10	10	10	10	10	10	10	10	10	10
25(1")	25	85	125	14	4	79x65	94	14	160	23	113	158	10	10	10	10	10	10	10	10	10	10
40(1-1/2")	41	110	150	18	4	123	147	24	200	23	133	193	10	10	10	10	10	10	10	10	10	10
50(2")	52	125	165	18	4	148	147	28	230	21	145	210	10	10	10	10	10	10	10	10	10	10
65(2-1/2")	68	145	185	18	4	183	202	32	290	22	197	276	10	10	10	10	10	10	7	7	10	10
80(3")	78	160	200	18	8	201	202	34	310	22	218	293	10	10	10	10	10	10	7	7	10	10
100(4")	100	180	210	18	8	250	241	54	350	25	261	370	10	10	10	10	10	10	7	7	7	10
125(5")	125	210	250	18	8	321	274	72	400	24	308	412	10	7	7	10	10	7	7	7	7	7
150(6")	148	240	285	23	8	382	395	72	480	30	334	471	10	7	7	10	10	7	7	7	7	7
200(8")	198	295	340	23	8	431	395	96	600	32	419	625	7	5	5	7	7	5	5	5	5	5
250(10")	248	350	395	23	12	529	555	132	680	32	510	750	7	5	5	7	7	5	5	5	5	5

※ 本尺表以 PVC 材質為準
※ 法蘭長度公差依據 EN558-1:1995 標準

※ The dimension table is calculably based on PVC material.
The flanged length tolerance is according to EN558-1:1995.

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

通用型蝶閥



BE300
Size: 2"- 8"

End Type: Flanged

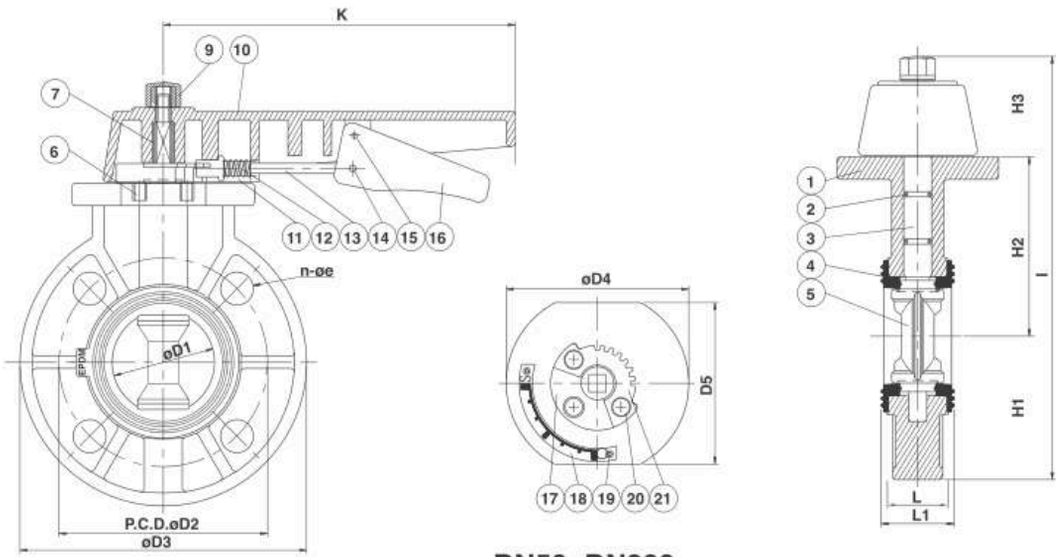
Test Pressure: 225 PSI

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	11	Spring	1	SUS 304
2	Stem O'ring	2	EPDM, VITON	12	Lever	1	SUS 304
3	Stem	1	SUS 410, SUS 316	13	Setpin(Short)	1	SUS 304
4	Seat	1	EPDM, VITON, NBR	14	Setpin(Long)	1	SUS 304
5	Disc	1	UPVC, PP, CPVC, PVDF	15	Lever	1	ABS
6	Bolt	1	BRASS, SUS 304	16	Positioner	1	UPVC
7	Handle Insert	1	FC 0208	17	Indicator	1	SUS 304
8	Stem Bolt	1	UPVC, BRASS	18	Bolt	2	SUS 304
9	Handle	1	ABS	19	Bolt	3	SUS 304
10	Handle Cap	1	ABS	20	Teeth Plate	1	SUS 304



DN50~DN200

The Torque Values

	AT Water							
	W/O Pressure (Kgf.m)		Pressure at 50PSI (Kgf.m)		Pressure at 100PSI (Kgf.m)		Pressure at 150PSI (Kgf.m)	
	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	Test Press(kgf/cm²) Body	Test Press(kgf/cm²) Seat	Working Press (kgf/cm²)
50(2")	55	120	164	4	36.1	43.5	105	82.0	107	63	252	202	93	15	12	10
65(2-1/2")	69.6	140	185	4	40	46.4	105	92	115	63	270	202	95.5	15	12	10
80(3")	78	150	196	8	40	47.4	127	98	123	63	284	202	95	15	12	10
100(4")	100	175	225	8	48	52.4	134	112.5	139.5	68	320	253	100	15	12	10
125(5")	128	210	254	8	51.2	58.8	169.5	127	160	86	373	297	100.8	15	12	10
150(6")	152	240	286	8	51	57	170	143	178	86	407	297	101	15	12	10
200(8")	200	290	344	12	61	67.5	191	172	212	86	470	297	110	15	12	10

ANSI — Unit: inch

Nom. size DN(inch)	D1	D2	D3	n	L	L1	D4	H1	H2	H3	I	K	D5	Test Press (lb/in²) Body	Test Press (lb/in²) Seat	Working Press (lb/in²)
50(2")	2.16	4.75	6.46	4	1.42	1.71	4.13	3.23	4.21	2.48	9.92	7.95	3.66	235	180	150
65(2-1/2")	2.74	5.5	7.28	4	1.57	1.83	5.04	3.62	4.53	2.48	10.63	7.95	3.76	235	180	150
80(3")	3.07	6.0	7.72	4	1.57	1.87	5.00	3.86	4.84	2.48	11.18	7.95	3.74	235	180	150
100(4")	3.94	7.5	8.85	8	1.89	2.06	5.27	4.43	5.49	2.68	12.60	9.96	3.94	235	180	150
125(5")	5.04	8.5	10.0	8	2.02	2.31	6.673	5.00	6.30	3.39	14.69	11.69	3.97	235	180	150
150(6")	5.98	9.5	11.26	8	2.01	2.24	6.69	5.63	7.00	3.39	16.02	11.69	3.98	235	180	150
200(8")	7.87	11.75	13.54	8	2.40	2.66	7.52	6.77	8.35	3.39	18.5	11.69	4.31	235	180	150

DIN — Unit: mm

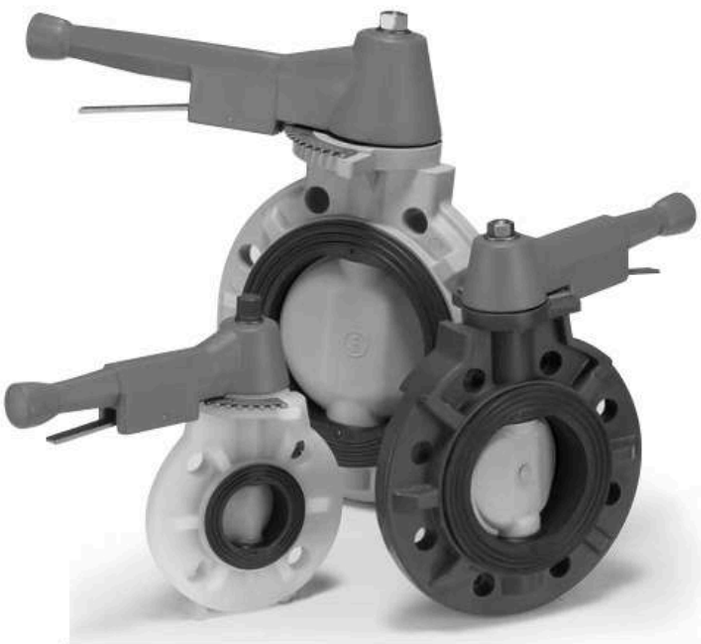
Nom. size DN(inch)	D1	D2	D3	n	L	L1	D4	H1	H2	H3	I	K	D5	Test Press (bar) Body	Test Press (bar) Seat	Working Press (bar)
50(2")	55	125	164	4	36.1	43.5	105	82.0	107	63	252	202	93	15	12	10
65(2-1/2")	69.6	145	185	4	40	46.4	128	92	115	63	270	202	95.5	15	12	10
80(3")	78	160	196	8	40	47.4	127	98	123	63	284	202	95	15	12	10
100(4")	100	180	225	8	48	52.4	134	112.5	139.5	68	320	253	100	15	12	10
125(5")	128	210	254	8	51.2	58.8	169.5	127	160	86	373	297	100.8	15	12	10
150(6")	152	240	286	8	51	57	170	143	178	86	407	297	101	15	12	10
200(8")	200	295	344	8	61	67.5	191	172	212	86	470	297	110	15	12	10

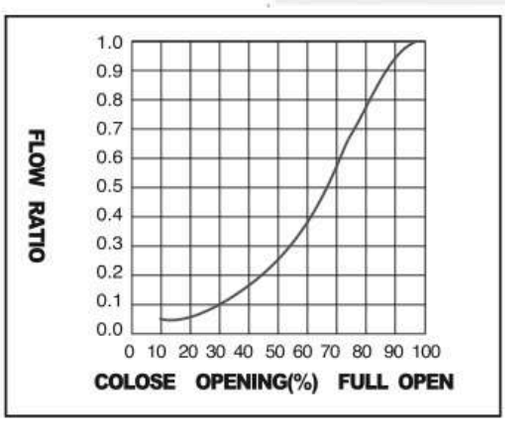
※ 法蘭長度公差依據 EN558-1:1995 標準
※ 蝶閥於安裝對鎖長度請參照目錄中 L 為標準長度施作

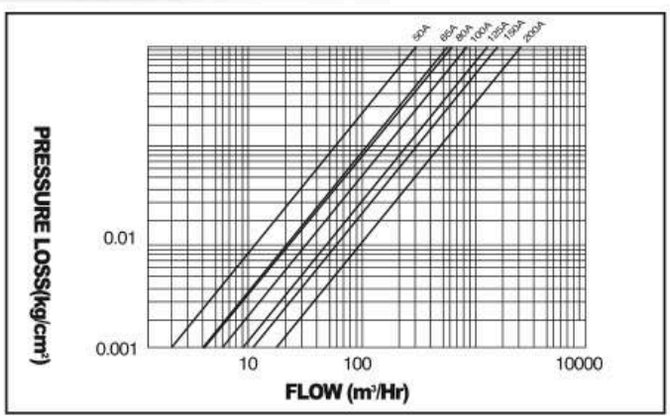
※ Standard dimensimns based on UPVC material
※ The flanged length tolerance is according to EN558-1:1995.
※ Please refer to the face-to-face (L)length as the butterfly valve standard installation's lay length.

BUTTERFLY VALVE
Lever Handle Type
旋轉凡而（手把式）

BB300
Size: 2"- 8"
options:8"(DN200) GEAR OPERATOR TYPE

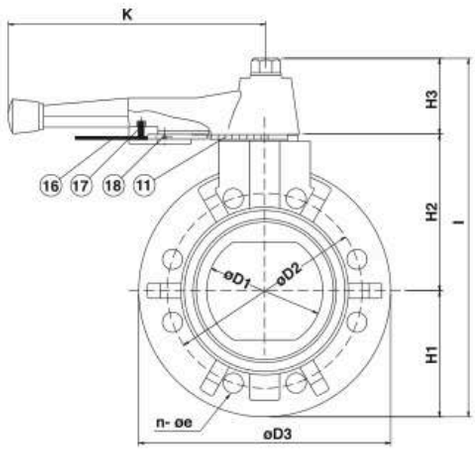


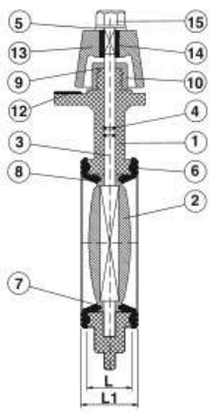




MATERIALS OF CONSTRUCTION

No.	Parts	Pcs.	Materials	No.	Parts	Pcs.	Materials
1	Body	1	UPVC,PP,PPG,PVDF,CPVC	10	Reatainer Cap	1	UPVC,PP,PVDF
2	Disc	1	UPVC,PP,PPG,PVDF,CPVC	11	Positioner	1	SUS304
3	Stem	1	SUS410,SUS316,SUS304	12	Screw	3...DN50-200 4...DN200	SUS304
4	Stem O-ring	2	EPDM,VITON	13	Handle	1	ABS
5	Washer	1	SUS304	14	Inserted Metal Of Handle	1	FC0208
6	Seat	1	EPDM,VITON,NBR, HYPALON	15	Nut	1	PVC COATED BRASS,SUS304
7	Disc O'ring(1)	2	EPDM,VITON	16	Handle Lever	1	SUS304
8	Disc O'ring(2)	2	EPDM,VITON	17	Spring	1	SUS304
9	Stem Retainer	1	SUS304	18	Set Pin	1	BSBM





DN50~DN200

TORQUE VALUES (1kgf/m=9.8N.m)

BF-V'S Size	Torque Under Without Any Water Pressure (Kgf/m)	Under Water Testing Pressure(Kg/cm²)			BF-V'S Size	Torque Under Without Any Water Pressure (Kgf/m)	Under Water Testing Pressure(Kg/cm²)		
		Water Pressure(Kgf/cm²)	Open Torque(Kgf/m)	Close Torque(Kgf/m)			Water Pressure(Kgf/cm²)	Open Torque(Kgf/m)	Close Torque(Kgf/m)
2"	1.5	15	0.5	0.5	10"	17.0	8	7	10
2-1/2"	1.5	15	0.5	0.5	12"	27.0	6	14	18
3"	2.0	15	1	1.5	14"	37.0	6	25	28
4"	2.0	12	1	1.5	16"	42.0	-	-	-
5"	5.0	12	2.5	4.5	18"	52.0	-	-	-
6"	6.5	12	4	7	20"	65.0	-	-	-
8"	10.0	10	6	8.5	24"	76.0	-	-	-

DIMENSIONS TABLE

JIS — Unit: mm

Nom. Size DN(inch)	D1	D2	D3	øe	n	L	L1	H1	H2	H3	I	K	Test Press (kgf/cm²) Body	Test Press (kgf/cm²) Seat	Working Press (kgf/cm²)
50(2")	57	120	165	19	4	34	36.5	82.5	102	63	253	220	15.0	12.0	10.0
65(2-1/2")	72	140	184	19	4	36.5	40.5	92	110	63	270	220	15.0	12.0	10.0
80(3")	80	150	200	19	8	34.5	40	100	118	63	286	220	15.0	12.0	10.0
100(4")	100	175	230	19	8	43.5	50.5	115	134	63	312	220	15.0	12.0	10.0
125(5")	130	210	256	23	8	53.5	60.5	128	160	96	391	310	15.0	12.0	10.0
150(6")	150	240	288	23	8	55	66	144	177	96	418	310	15.0	12.0	10.0
200(8")	203	290	348	23	12	72.6	81.5	174	204	93	476	414	15.0	12.0	10.0

ANSI — Unit: inch

Nom. Size DN(inch)	D1	D2	D3	øe	n	L	L1	H1	H2	H3	I	K	Test Press (lb/in²) Body	Test Press (lb/in²) Seat	Working Press (lb/in²)
50(2")	2.24	4.75	6.50	0.75	4	1.34	1.44	3.25	4.01	2.48	9.96	8.66	235	180	150
65(2-1/2")	2.83	5.50	7.24	0.75	4	1.44	1.6	3.62	4.33	2.48	10.63	8.66	235	180	150
80(3")	3.15	6.00	7.87	0.75	4	1.36	1.58	3.94	4.64	2.48	11.26	8.66	235	180	150
100(4")	3.93	7.50	9.06	0.75	8	1.71	1.99	4.53	5.28	2.48	12.48	8.66	235	180	150
125(5")	5.12	8.50	10.07	0.87	8	2.11	2.38	5.00	6.30	3.78	15	12.20	235	180	150
150(6")	5.90	9.50	11.34	0.87	8	2.17	2.6	5.67	6.97	3.78	16.46	12.20	235	180	150
200(8")	7.99	11.75	13.70	0.87	8	2.86	3.21	6.85	8.03	3.66	18.74	16.30	235	180	150

DIN — Unit: mm

Nom. Size DN(inch)	D1	D2	D3	øe	n	L	L1	H1	H2	H3	I	K	Test Press (bar) Body	Test Press (bar) Seat	Working Press (bar)
50(2")	57	125	165	18	4	34	36.5	82.5	102	63	253	220	15.0	12.0	10.0
65(2-1/2")	72	145	184	18	4	36.5	40.5	92	110	63	270	220	15.0	12.0	10.0
80(3")	80	160	200	18	8	34.5	40	100	118	63	286	220	15.0	12.0	10.0
100(4")	100	180	230	18	8	43.5	50.5	115	134	63	312	220	15.0	12.0	10.0
125(5")	130	210	256	18	8	53.5	60.5	128	160	96	391	310	15.0	12.0	10.0
150(6")	150	240	288	23	8	55	66	144	177	96	418	310	15.0	12.0	10.0
200(8")	203	295	348	23	8	72.6	81.5	174	204	93	476	414	15.0	12.0	10.0

※ 法蘭長度公差依據 EN558-1:1995 標準
※ 蝶閥於安裝對鎖長度請參照目錄中 L 為標準長度施作

※ Standard dimensions based on PVC material.
※ The flanged length tolerance is according to EN558-1:1995.
※ Please refer to the face-to-face (L)length as the butterfly valve standard installation's lay length.

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.



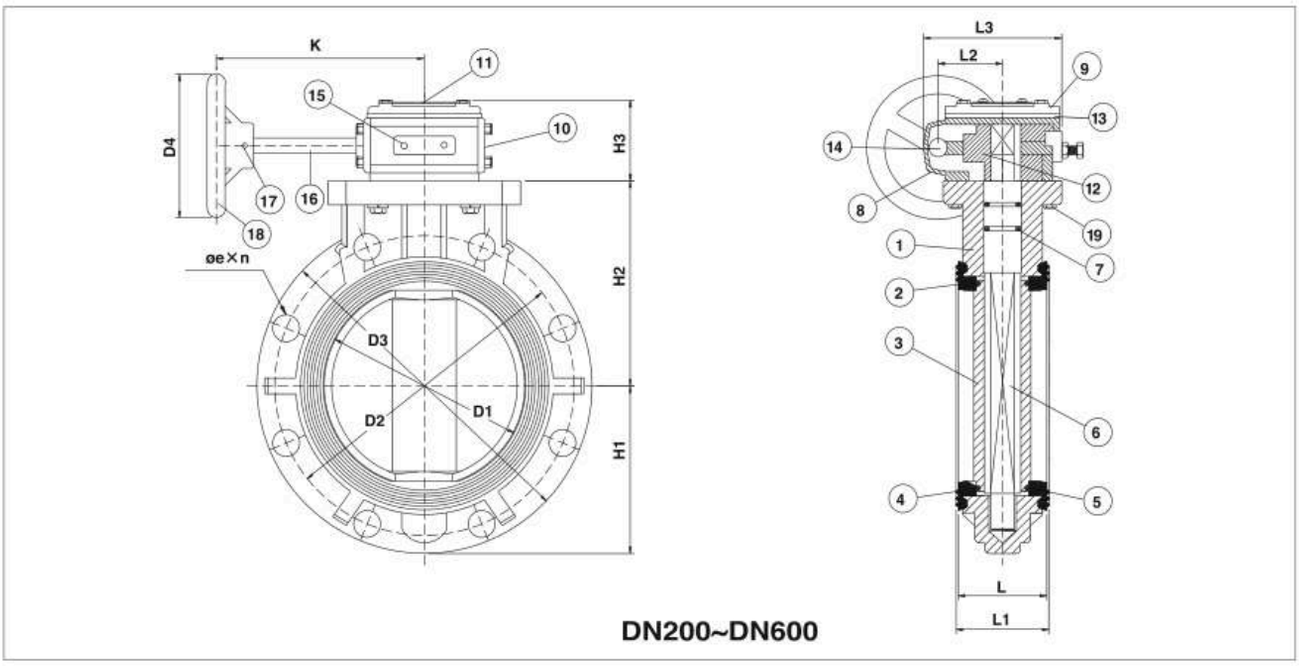
MATERIALS OF CONSTRUCTION

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, VITON	14	Bearing	1	SMCM220/420/810
5	Disc O'ring(B)	2	EPDM, VITON	15	Adjustable Bolt	2	SS41
6	Stem	1	SUS410, SUS304, SUS316	16	Gearing	1	SS41
7	Stem 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 (1kg.m=9.81N.m)

BF-V'S Size	Torque Under Without Any Water Pressure (Kgf/m)	Under Water Test Pressure(Kg/cm²)		
		Water Pressure(Kgf/cm²)	Open Torque(Kgf/m)	Close Torque(Kgf/m)
2"	1.5	15	0.5	0.5
2-1/2"	1.5	15	0.5	0.5
3"	2.0	15	1	1.5
4"	2.0	12	1	1.5
5"	5.0	12	2.5	4.5
6"	6.5	12	4	7
8"	10.0	10	6	8.5
10"	17.0	8	7	10

BF-V'S Size	Torque Under Without Any Water Pressure (Kgf/m)	Under Water Test Pressure(Kg/cm²)		
		Water Pressure(Kgf/cm²)	Open Torque(Kgf/m)	Close Torque(Kgf/m)
12"	27.0	6	14	18
14"	37.0	6	25	28
16"	42.0	-	-	-
18"	52.0	-	-	-
20"	65.0	-	-	-
24"	76.0	-	-	-



DN200~DN600

DIMENSIONS TABLE

JIS — Unit: mm

Nom. Size DN(inch)	D1	D2	n	øe	D3	L	L1	H1	H2	H3	K	L2	L3	D4	Test Press (kgf/cm²) Body	Test Press (kgf/cm²) Seat	Working Press (kgf/cm²)
200(8")	203	290	12	23	348	72.6	81.5	174	211.2	108	175	51	136	180	15.0	12.0	10.0
250(10")	255	355	12	25	412	92	102	206	242.7	83	195	51	136	180	15.0	12.0	10.0
300(12")	312	400	16	25	493	112	120	247	289	110	210	72	189	305	12.0	10.0	8.0
350(14")	355	445	16	25	540	114	123	270	305	110	210	72	189	305	10.5	8.5	7.0
400(16")	398	510	16	27	615	152	163	307.5	353	130	330	72	189	356	9.0	7.0	6.0
450(18")	451	565	20	27	640	165	175	325	365	130	330	116	285	406	9.0	6.0	5.0
500(20")	500	620	20	27	730	175	183	373	405	130	330	116	285	457	9.0	6.0	5.0
600(24")	600	730	24	33	844	194	205	435	460	175	350	116	285	508	7.5	6.0	5.0

ANSI — Unit:inch

Nom. Size DN(inch)	D1	D2	n	øe	D3	L	L1	H1	H2	H3	K	L2	L3	D4	Test Press (lb/in²) Body	Test Press (lb/in²) Seat	Working Press (lb/in²)
200(8")	7.99	11.75	8	0.88	13.70	2.86	3.21	6.85	8.31	4.25	6.89	2.01	5.35	7.09	225	180	150
250(10")	10	14.25	12	0.98	16.22	3.62	4.02	8.11	9.56	3.27	7.68	2.01	5.35	7.09	225	180	150
300(12")	12.28	17.00	12	0.98	19.41	4.41	4.72	9.72	11.38	4.33	8.27	2.83	7.44	12.01	180	150	120
350(14")	13.97	18.75	12	1.14	21.26	4.49	4.84	10.63	12.01	4.33	8.27	2.83	7.44	12.01	155	125	105
400(16")	15.69	21.25	16	1.14	24.21	5.98	6.42	12.11	13.90	5.12	12.99	2.83	7.44	14.02	133	100	88
450(18")	17.75	22.75	16	1.26	25.20	6.50	6.89	12.80	14.37	5.12	12.99	4.57	11.22	15.98	133	90	75
500(20")	19.70	25.00	20	1.26	28.74	6.89	7.21	14.69	15.94	5.12	12.99	4.57	11.22	17.99	133	90	75
600(24")	23.66	29.50	20	1.38	33.23	7.64	8.07	17.13	18.11	6.89	13.78	4.57	11.22	20.00	111	90	75

DIN — Unit: mm

Nom. Size DN(inch)	D1	D2	n	øe	D3	L	L1	H1	H2	H3	K	L2	L3	D4	Test Press (bar) Body	Test Press (bar) Seat	Working Press (bar)
200(8")	203	295	8	23	348	72.6	81.5	174	211.2	108	175	51	136	180	15.0	12.0	10.0
250(10")	255	350	12	25	412	92	102	206	242.7	83	195	51	136	180	15.0	12.0	10.0
300(12")	312	400	12	25	493	112	120	247	289	110	210	72	189	305	12.0	10.0	8.0
350(14")	355	460	16	25	540	114	123	270	305	110	210	72	189	305	10.5	8.5	7.0
400(16")	398	515	16	27	615	152	163	307.5	363	130	330	72	189	356	9.0	7.0	6.0
450(18")	451	565	20	27	640	165	175	325	365	130	330	116	285	406	9.0	6.0	5.0
500(20")	500	620	20	27	730	175	183	373	405	130	330	116	285	457	9.0	6.0	5.0
600(24")	600	725	20	30	844	194	205	435	460	175	350	116	285	508	7.5	6.0	5.0

※ 法蘭長度公差依據 EN558-1:1995 標準
※ 蝶閥於安裝對鎖長度請參照目錄中L 為標準長度施作

※ Standard dimensions based on PVC material.
※ The flanged length tolerance is according to EN558-1:1995.
※ Please refer to the face-to-face (L)length as the butterfly valve standard installation's lay length.

SUPER LARGE SIZED BUTTERFLY VALVE

超大型旋轉凡而



BS300

Size: Ø700(28")～Ø1200(48")

MATERIAL: UPVC, PP, CPVC, PPG, PVDF

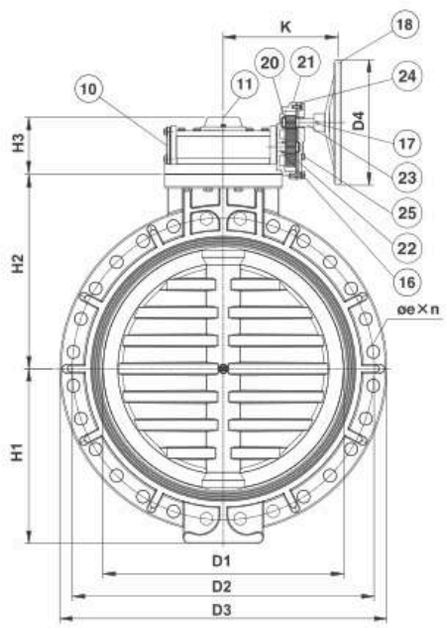
MODEL: Gear operated type(齒輪式)，Chaining type(鏈條式)
Hydraulic type(油壓式)，Pneumatin type(氣壓式)

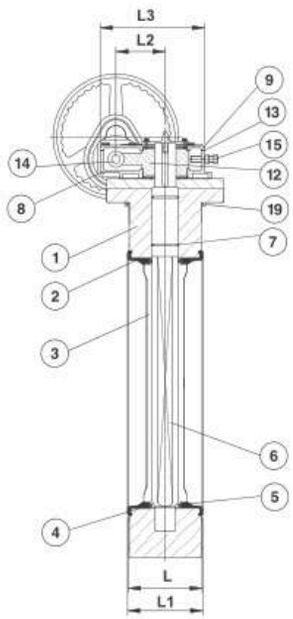
FEATURES:

- Fullport allowing max. fluid flow. 全口徑、流量足。
- ECONOMIC EQUIPMENT:Fluid control plate conealed in piping system, space saved, 設備經濟、控制流量的活版、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 &aik all 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

No.	Parts	Pcs.	Materials	No.	Parts	Pcs.	Materials
1	Body	1	PP, 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	Stem	1	SUS410,SUS304,SUS316	19	Tightening Bolt	4	SUS304
7	Stem 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	Inicator Plate	1	CAST IRON	24	SPUR GEAR COVER	1	CAST IRON
12	Gear	1	DUCTILE IRON	25	BOLT	6	STEEL
13	Oil Seal	1	EPDM				





DN700~DN1200

TORQUE VALUES (11gf/m=9.8 N.m)

BF-V'S Size	700(28")	800(32")	900(36")	1000(40")	1200(48")
Torque Under Without Any Water Pressure (Kgf/m)	4480	5850	7400	10300	10300

DIMENSIONS TABLE

JIS — Unit: mm

Nom. size DN(inch)	D1	D2	D3	n	e	H1	H2	H3	K	D4	L	L1	Test Press (kgf/cm²)	Working Press (kgf/cm²)
700(28")	680	840	942	24	33	498	563	138	325	356	203	210	4	3
800(32")	780	950	1068	28	33	503	630	132	372	406	241	248	4	3
900(36")	870	1050	1185	28	33	621	694	132	372	406	241	248	4	3
1000(40")	970	1160	1290	28	39	683	762	210	471	508	300	307	4	3
1200(48")	1170	1380	1512	32	39	776	876	210	471	508	300	307	3	2

ANSI — Unit: inch

Nom. size DN(inch)	D1	D2	D3	n	e	H1	H2	H3	K	D4	L	L1	Test Press (lb/in²)	Working Press (lb/in²)
700(28")	26.77	33.99	37.09	24	1.37	19.69	22.17	5.40	12.57	14.02	7.99	8.26	60	45
800(32")	30.70	38.50	42.05	24	1.61	19.80	24.80	5.18	14.59	15.98	9.48	9.76	60	45
900(36")	34.25	42.75	46.65	32	1.62	24.45	27.32	5.18	14.59	15.98	9.48	9.76	60	45
1000(40")	38.18	46.25	50.88	32	1.62	26.89	30.00	8.27	18.54	20	11.81	12.08	60	45
1200(48")	46.06	56.00	59.52	44	1.62	30.55	34.48	8.27	18.54	20	11.81	12.08	45	30

DIN — Unit: mm

Nom. size DN(inch)	D1	D2	D3	n	e	H1	H2	H3	K	D4	L	L1	Test Press (kgf/cm²)	Working Press (kgf/cm²)
700(28")	680	840	942	24	30	498	563	138	325	356	203	210	4	3
800(32")	780	950	1068	24	33	503	630	132	372	406	241	248	4	3
900(36")	870	1050	1185	28	33	621	694	132	372	406	241	248	4	3
1000(40")	970	1175	1290	28	36	683	762	210	471	508	300	307	4	3
1200(48")	1170	1380	1512	32	39	776	876	210	471	508	300	307	3	2

※ 法蘭長度公差依據 EN558-1:1995 標準
※ 蝶閥於安裝對鎖長度請參照目錄中 L 為標準長度施作

※ Standard dimensions based on PP material.
※ The flanged length tolerance is according to EN558-1:1995.
※ Please refer to the face-to-face (L)length as the butterfly valve standard installation's lay length.

CHECK VALVE/ HORIZATIONAL TYPE

擺動逆止球閥凡而/横式

JW300
SIZE: 1"-8"



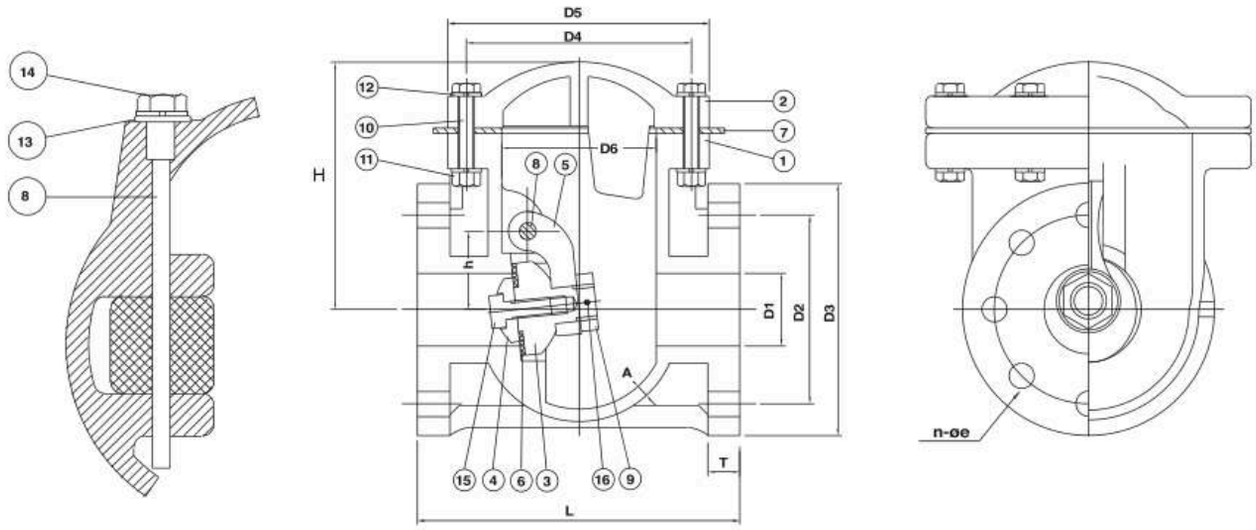
MATERIALS OF CONSTRUCTION

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	SUS304
3	Disc	1	UPVC, PP, CPVC, PPG, PVDF	11	Nuts	8...DN65-125 10...DN150	SUS304
4	Sheet Gasket Holder	1	UPVC, PP, CPVC, PPG, PVDF	12	Washers	12...DN200	SUS304
5	Swing Arms	1	UPVC, PP, CPVC, PPG, PVDF	13	O'ring	1	EPDM, VITON
6	Disc Gasket	1	EPDM, VITON , TEFLON	14	Shaft Holder	1	PVDF
7	Bonnet Gasket	1	EPDM, VITON , TEFLON	15	Set Bolts	1...DN15-80 3...DN100-125 4...DN150-200	PVDF
8	Shoft	1	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	Test Press (kgf/cm²)	Working Press (kgf/cm²)	Mini Back Pressure Rates (PSI)
25(1")	25	90	125	19	4	110	130	75	160	15	6	40	129	8	15	10	0.34
40(1-1/2")	41	105	150	19	4	125	145	85	180	18	8	45	141	8	15	10	0.50
50(2")	52	120	155	19	4	155	180	105	200	18	8	55	165	10	15	10	0.50
65(2-1/2")	80	140	175	19	4	181	205	130	260	20	9	70	180	12	15	10	0.60
80(3")	80	150	185	19	8	181	205	130	260	20	9	70	180	12	15	10	0.60
100(4")	100	175	233.9	19	8	235	265	170	300	24	10	90	216	16	10	7	0.68
125(5")	125	210	250	23	8	285	330	210	350	24	14	110	239.5	18	10	7	0.68
150(6")	150	240	280	23	8	330	370	250	400	30	16	135	273	20	10	7	0.84
200(8")	200	290	330	23	12	390	425	300	500	30	18	170	310	20	10	7	0.84



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	Test Press (lb/in^2)	Working Press (lb/in^2)	Mini Back Pressure Rates (PSI)
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	222	150	5
40(1-1/2")	1.63	3.88	5.91	0.63	4	4.94	5.72	3.34	7.09	0.70	0.31	1.78	5.55	0.31	222	150	7.5
50(2")	2.06	4.75	6.10	0.75	4	6.09	7.09	4.13	7.88	0.70	0.31	2.16	6.50	0.41	222	150	7.5
65(2-1/2")	3.15	5.50	6.88	0.75	4	7.13	8.06	5.13	10.25	0.79	0.35	2.75	7.09	0.47	222	150	8.5
80(3")	3.15	6.00	7.5	0.75	4	7.13	8.06	5.13	10.25	0.79	0.35	2.75	7.09	0.47	222	150	8.5
100(4")	3.94	7.50	9.21	0.75	8	9.25	10.44	6.69	11.82	0.94	0.39	3.53	8.50	0.63	222	150	10
125(5")	4.94	8.50	9.84	0.88	8	11.22	13.00	8.28	13.78	0.94	0.55	4.34	9.43	0.72	150	100	10
150(6")	5.90	9.50	11.02	0.88	8	13.00	14.56	9.84	15.75	1.18	0.63	5.31	10.75	0.78	150	100	12.5
200(8")	7.88	11.75	12.99	0.88	8	15.31	16.71	11.81	19.69	1.18	0.71	6.69	12.21	0.78	150	100	12.5

DIN — Unit: mm

Nom. Size DN(inch)	D1	D2	D3	e	n No. of holes	D4	D5	D6	L	T	A	h	H	D	Test Press (bar)	Working Press (bar)	Mini Back Pressure Rates (bar)
25(1")	25	85	125	14	4	110	130	75	160	15	6	40	129	8	15	10	0.34
40(1-1/2")	41	110	150	18	4	125	145	85	180	18	8	45	141	8	15	10	0.5
50(2")	52	125	155	18	4	155	180	105	200	18	8	55	165	10	15	10	0.5
65(2-1/2")	80	145	175	18	4	181	205	130	260	20	9	70	180	12	15	10	0.6
80(3")	80	160	200	18	8	181	205	130	260	20	9	70	180	12	15	10	0.6
100(4")	100	180	233.9	18	8	235	265	170	300	24	10	90	216	16	15	10	0.68
125(5")	125	210	250	18	8	285	330	210	350	24	14	110	239.5	18	10	7	0.68
150(6")	150	240	280	23	8	330	370	250	400	30	16	135	273	20	10	7	0.84
200(8")	200	295	330	23	8	390	425	300	500	30	18	170	310	20	10	7	0.84

※ 本尺表以 PVC 材質為準，本表試壓值以 PVC、PVDF材質為基準，PP材質試壓值為本表試壓值之 70%.

※ 法蘭長度公差依據 EN558-1:1995 標準

※ The dimension table is calculably based on PVC material.
The valve of test pressure is calculably based on PVC PVDF materials.
The valve of test pressure for PP material is 70% based on the table.
The flanged length tolerance is according to EN558-1:1995.

BALL CHECK VALVE(VERTICAL TYPE)

球型逆止凡而(直式)

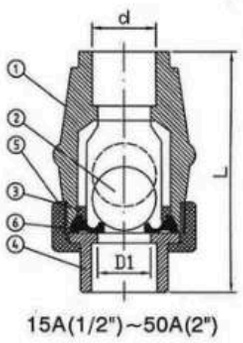
SOCKET JB100 / THREAD JB200 / FLANGED JB300
SIZE: 1/2"-10"



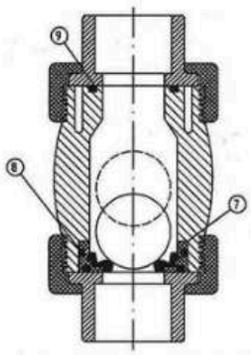
MATERIALS OF CONSTRUCTION

No.	Parts	Pcs.	Materials
1	Body	1	UPVC,PP,CPVC,PVDF
2	Ball	1	UPVC,CPVC,PVDF,PPG
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	4...DN150 8...DN250	SUS304(150A-250A)
12	Bolts on Reinforcement Plate	10...DN150 20...DN250	SUS304

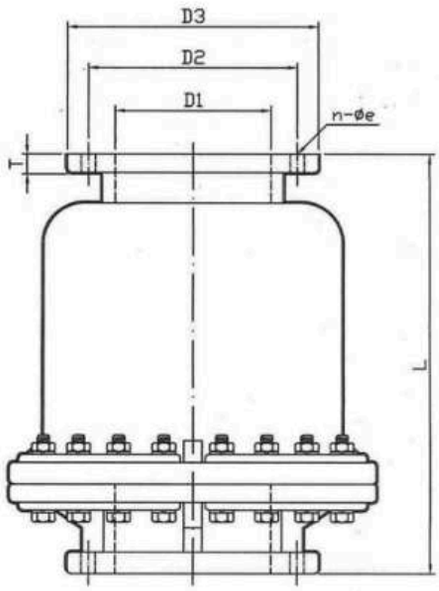
Min.Open Close Pressure kgf/cm² (bar)		
Size	Open	Close
1/2"	0.05	0.2
3/4"	0.05	0.3
1"	0.05	0.3
1-1/4"	0.1	0.3
1-1/2"	0.1	0.3
2"	0.1	0.3
2-1/2"	0.1	0.3
3"	0.1	0.2
4"	0.1	0.2
6"		
10"		



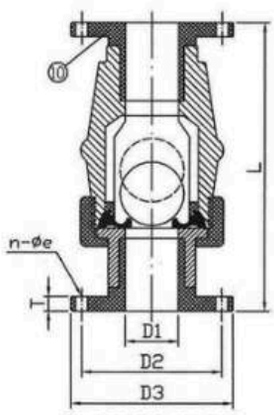
15A(1/2")~50A(2")



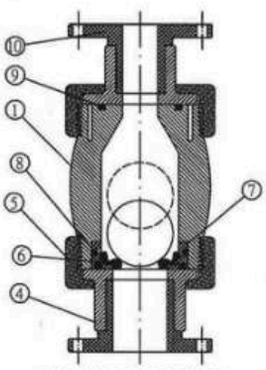
65A(2-1/2")~100A(4")



FLANGED TYPE
150A(6")~250A(10")



FLANGED TYPE
15A(1/2")~50A(2")



FLANGED TYPE
65A(2-1/2")~100A(4")

SPECIFICATIONS:

1.Test Press: ① {15mm(1/2")~100mm(4") : 15kgf/cm²(bar){225lb/in²)}
② {150mm(6") : 10kgf/cm² (bar) (150lb/in²) }
③ {250mm(10") : 5kgf/cm² (bar) (75lb/in²) }

2.Working Press: ① {15mm(1/2")~100mm(4") : 10kgf/cm²(bar){150lb/in²)}
② {150mm(6") : 7kgf/cm² (bar) (100lb/in²) }
③ {250mm(10") : 3kgf/cm² (bar) (45lb/in²) }

DIMENSIONS TABLE

Nom. Size DN-inch	JIS Unit:mm											ANSI Unit:inch											DIN Unit:mm									
	D1	d		D2	D3	n	øe	L			T	D1	d		D2	D3	n	øe	L			T	D1	d		D2	D3	n	øe	L			T
		Screw	Socket					Screw	Socket	Flange			Screw	Socket					Screw	Socket	Flange			Screw	Socket					Screw	Socket	Flange	
15(1-2")	15	PT	22	70	95	4	15	96	96	135	15	0.59	NPT	0.84	2.375	3.500	4	0.63	3.78	3.78	5.32	0.59	15	R1/2	20	65	95	4	14	96	96	135	15
20(3/4")	20	PT	26	75	100	4	15	118	118	157	16	0.79	NPT	1.05	2.750	3.785	4	0.63	4.65	4.65	6.18	0.59	20	R3/4	25	75	105	4	14	118	118	157	15
25(1")	26	PT	32	90	125	4	19	124	124	167	17	0.98	NPT	1.32	3.125	4.250	4	0.63	4.88	4.88	6.58	0.66	26	R1	32	85	115	4	14	124	124	167	17
32(1-1/4")	36	PT	38	100	135	4	19	151	151	197	16	1.42	NPT	1.67	3.500	4.625	4	0.63	5.94	5.94	7.77	0.67	36	R1-1/4	40	100	140	4	18	151	151	197	17
40(1-1/2")	36	PT	48	105	145	4	19	151	151	199	18	1.57	NPT	1.91	3.875	5.000	4	0.63	5.94	5.94	7.84	0.7	36	R1-1/2	50	110	150	4	18	151	151	199	17
50(2")	50	PT	60	120	155	4	19	180	180	231	21	1.96	NPT	2.38	4.750	6.000	4	0.75	7.09	7.09	9.09	0.78	40	R2	63	125	165	4	18	180	180	231	20
65(2-1/2")	65	PT	76	140	175	4	19	222	222	275	20	2.36	NPT	2.88	5.500	7.000	4	0.75	8.74	8.74	10.83	0.8	65	R2-1/2	75	145	185	4	18	222	222	275	20
80(3")	80	PT	89	150	185	8	19	275	275	330	23	3.15	NPT	3.51	6.000	7.500	4	0.75	10.83	10.83	12.99	0.91	80	R3	90	160	200	8	18	275	275	330	23
100(4")	100	PT	114	175	210	8	19	361	361	415	20	3.74	NPT	4.51	7.500	9.000	8	0.75	14.21	14.21	16.34	0.92	100	R4	110	180	220	8	18	361	361	415	20
150(6")	150	-	-	240	280	8	23	-	-	485	23	-	-	-	9.500	11.000	8	0.88	-	-	19.09	0.87	150	-	-	240	285	8	23	-	-	485	23
250(10")	250	-	-	355	400	12	25	-	-	668	25	-	-	-	14.250	16.000	12	1.00	-	-	26.3	0.94	250	-	-	350	395	12	23	-	-	668	25

※ 本尺表以 PVC 材質為準，本表試壓值以 PVC、PVDF材質為基準，PP材質試壓值為本表試壓值之 70%.
※ 法蘭長度公差依據 EN558-1:1995 標準

※ The dimension table is calculably based on PVC material.
The valve of test pressure is calculably based on PVC PVDF materials.
The valve of test pressure for PP material is 70% based on the table.
The flanged length tolerance is according to EN558-1:1995.

WAFER CHECK VALVE

單片逆止閥

JT 300S

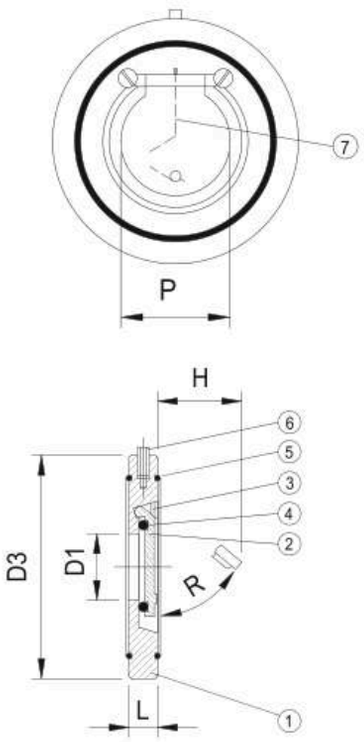
Size: DN40 ~ DN600



(W/0 Spring)
(無彈簧)
JT 300



(W/ Spring)
(有彈簧)
JT 300S



Applications (使用場合) :
- Water and waste water treatment 水及廢水處理
- Chemical Industrial 化工工業
- Enviromental Industrial 環境工程
- Process Industrial 加工生產工程
- Systems engineering 管路系統工程

Features (特點) :
- Require little space in piping system 產品造型簡潔
- Economica - 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	Packing	2	EPDM.VITON
2	Flapper	1	UPVC.PP.CPVC.PVDF	6	Installation device	1	SUS304, SUS316
3	Flapper mounting screw	2	PP,PVDF	7	Spring	1	SUS304, SUS316
4	O'ring	1	EPDM.VITON				

DIMENSIONS TABLE

Nom. Size DN (Inch)	JIS Unit:mm					ANSI Unit:inch					DIN Unit:mm					Test press (kgf/cm²) (bar)	Work press (kgf/cm²) (bar)	Mini Back Pressure Rates psi	
	D1	D3	P	L	H	D1	D3	P	L	H	D1	D3	P	L	H				
40(1-1/2")	23	82	35	16	25	0.89	3.23	1.38	0.63	0.99	23	82	35	16	25	15	10	0.2	0.3
50(2")	32	101	47	20	46	1.26	3.97	1.85	0.79	1.80	32	101	47	20	46	15	10	0.2	0.3
65(2-1/2")	40	119	57	20	51	1.57	4.68	2.24	0.79	2.00	40	119	57	20	51	15	10	0.2	0.3
80(3")	54	129	72	20	74	2.13	5.08	2.83	0.79	2.90	54	129	72	20	74	15	10	0.25	0.3
100(4")	70	154.5	90	22	91	2.76	6.05	3.54	0.87	3.60	70	154.5	90	22	91	15	10	0.25	0.3
125(5")	92	187	114	22	96	3.64	7.36	4.48	0.87	3.77	92	187	114	22	96	15	10	0.25	0.3
150(6")	112	210	134	26	147	4.40	8.27	5.27	1.02	5.80	112	210	134	26	147	15	10	0.25	0.3
200(8")	150	265	179	35	191	5.90	10.43	7.04	1.38	7.50	150	265	179	35	191	10	7	0.3	0.3
250(10")	190	325	226	40	229	7.48	12.79	8.89	1.57	9.00	190	325	226	40	229	9	6	0.3	0.3
300(12")	216	372	264	45	259	8.62	14.64	10.39	1.77	10.20	216	372	264	45	259	9	6	0.3	0.3
350(14")	266	430	311	49	245	10.47	16.93	12.24	1.93	9.64	266	430	311	49	245	9	6	0.5	0.5
400(16")	310	482	354	65	285	12.20	18.97	13.93	2.56	11.22	310	482	354	65	285	7	5	0.7	0.6
450(18")	350	536	396	68	330	13.78	21.10	15.59	2.67	13.00	350	536	396	68	330	5	3.5	1.0	0.8
500(20")	400	593	437	78	385	15 75	23.35	17.2	3.07	15.15	400	593	437	78	385	5	3.5	1.1	1.0

※ 本尺表以 PVC 材質為準，本表試壓值以 PVC、PVDF材質為基準，PP材質試壓值為本表試壓值之 70%.

※ 法蘭長度公差依據 EN558-1:1995 標準

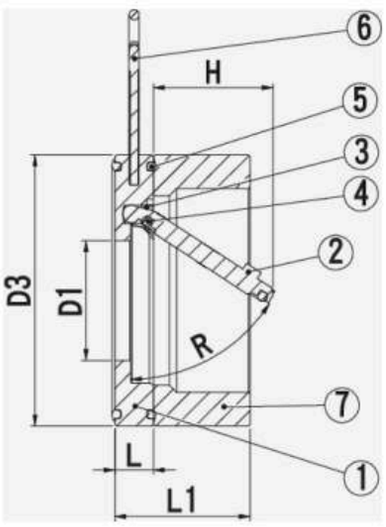
※ 本產品有生產6" 以上 加強型，價格另詢。

※ The dimension table is calculably based on PVC material.
The valve of test pressure is calculably based on PVC PVDF materials.
The valve of test pressure for PP material is 70% based on the table.
The flanged length tolerance is according to EN558-1:1995.

SPACER CONNECTOR

單片式逆止閥轉接頭





MATERIALS OF CONSTRUCTION

Item	Parts	Pcs	Material
1	Body	1	UPVC, CPVC, PP, PVDF
2	Flapper	1	UPVC, CPVC, PP, PVDF
3	Flapper Mounting Screw	2	UPVC, CPVC, PVDF
4	O'ring	1	EPDM, VITON
5	Body O'ring	2	EPDM, VITON
6	Installation Device	1	SUS 316(350~600 NO)
7	Adaptors	1	UPVC, CPVC, PP, PVDF(350~600 NO)
8	Spring	1	SUS 316

DIMENSIONS TABLE

Nom. Size	JIS (DIN)						Unit:mm	ANSI						Unit:mm
	D1	D3	P	L	H	L1	R	D1	D3	P	L	H	L1	R
40(1-1/2")	23	82	35	16	25	38.2	56.0	0.90	3.23	1.38	0.63	0.98	1.50	56.0
50(2")	32	101	45	20	46	46.2	45.0	1.26	3.98	1.77	0.79	1.81	1.82	45.0
65(2-1/2")	38	119	60	20.2	51	59.4	38.0	1.50	4.69	2.36	0.80	2.00	2.34	38.0
80(3")	54	129	72	20	74	67.2	57.0	2.13	5.08	2.83	0.79	2.91	2.65	57.0
100(4")	68	154.4	90	22	91	77.2	57.0	2.68	6.08	3.54	0.87	3.58	3.04	57.0
125(5")	90	187	109	22	96	90.7	45.0	3.54	7.36	4.29	0.87	3.78	3.57	45.0
150(6")	110	210	132	26	113	110.2	45.0	4.33	8.27	5.20	1.02	4.45	4.34	45.0
200(8")	150	262	176	35	153	118.2	45.0	5.90	10.30	6.96	1.38	6.02	4.65	45.0
250(10")	190	321.4	222	42	188	175.2	45.0	7.48	12.65	8.74	1.65	7.40	6.90	45.0
300(12")	216	376	260	45	259	186.2	62.0	8.50	14.80	10.24	1.77	10.20	7.33	62.0

Specific Material Properties for Polypropylene
PP-H 原料物性表

項目 Items	試驗方法 Test Methods	單位 Units	數值 Vallue
比重 Density	ISO 1183	kg/m3	905
熔融指數 Melt Flow Rate (230˚C/2.16 kg)	ISO 1133	g/10min	0.3
熔融指數 Melt Flow Rate (190˚C/5.0 kg)	ISO 1133	g/10min	0.5
抗張系數 Tensile Modulus (1 mm/min)	ISO 527	MPa	1.3
抗張拉力 Tensile Strain at Yield (50 mm/min)	ISO 527-2	%	10
抗張拉力 Tensile Strain at Yield (51 mm/min)	ISO 527-2	MPa	30
熱變型溫度 Heat Deflection Temperature	ISO 75-2	˚C	96
Vicat 軟化溫度 Vicat Softening Temperature B50,(50N)	ISO 309	˚C	91
耐衝擊強度 Charpy Impact Strength, notched (23˚C)	ISO 179/1eA	KJ/M2	50
耐衝擊強度 Charpy Impact Strength, notched (-20˚C)	ISO 179/1eA	KJ/M2	5
無毒性 Physiologically non-toxic	-	-	YES
抗 UV UV stablized	-	-	NO
顏色 Color	-	-	Rai 7032 grey

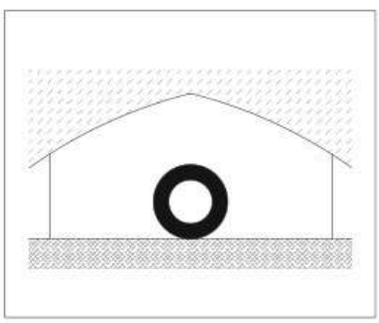
WELDING INSTRUCTIONS Processing guidelines-heating element socket welding

(面對面程序指示(依據 DVS 2208, Part 1))

Preparation of welding place (焊接地點的準備)

Assemble welding equipment (prepare tools and machinery), control welding devices.

組裝焊接設備(工具及機器)，控制冶具。



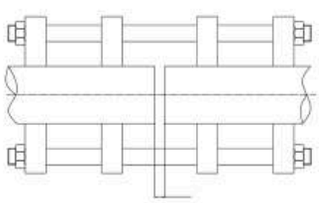
Install welding tent or similar device (if necessary).

安裝焊接帳篷或類似的裝備(若有需要)。

Preparation of welding seam (at any rate immediately before starting the welding process) 焊接間隙的準備 (可以立即焊接動作)

Clamp and adjust the pipes or fittings the surfaces to be welded should be plane-parallel to each other. Secure longitudinal movement of the parts to be welded by taking appropriate measure (e.g. adjustable dollies).

固定及調整管子、配件的表面，使互相能平行，確定要焊接的另件在水平移動(例如可調式的臺車)下可以進行焊接。



Clean outside and inside surfaces (near welding seams) of the part to be welded with acetone (or similar).

用丙碉清理要焊接物件的裡面及表面。

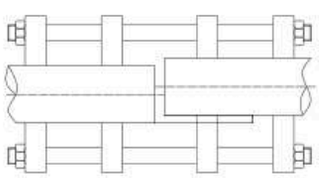
Remove shavings from the welding area (with brush, paper, etc.).

用刷子或紙清除焊接間隙的殘渣。

Control plane-parallelity of welding surfaces by putting the parts together. At the same time, check displacement of pipes x (x=0.1 s).

將要焊接物件或互相靠近來控制焊接表面的水平，同時也檢查管子的換置移動。

Pipe outside diameter da [mm]	Gap width t [mm]
≦355	0.5
400 ÷< 630	1.0
630 ÷< 800	1.3
800 ÷< 1200	1.5



Preparations before welding (焊接前的準備)

In order to avoid cooling down of the pipe inside temperature by strong currents of air, it is necessary to seal the pipe end being opposite to the pipe end to be welded.Control welding temperature before each welding process (start welding process 5 min.after the heating element will have reached proper temperature at the earliest.) To prevent contaminations or damages, it is necessary to keep the heating element in a protective device before and after each welding process. Before starting of each welding process, clean heating element with clean, fluffless paper.
Determine and adjust the required welding parameters. Measure the workpiece movement pressure Pw at the welding area and add it to the equalizing pressure and the joining pressure resp. The workpiece movement pressure is measured during slow displacement the parts to be welded, it must, however, not exceed the alignment pressure.

為避免管子內溫度受強風的冷卻，管子另一端需要封住。每一焊接前的焊接溫度控制(在電熱板達到溫度後5分鐘內開始焊接)。為避免電熱板受到污染或損害，在每一焊接過程後必須將電熱板放在保護的裝置下。焊接前用乾淨紙清理電熱板，決定及調整焊接相關的參數，在焊接區測量焊件的移動壓力(Pw)、水平壓力、熔接壓力，焊件的工作壓力室焊件互相在置換時所測量，必需不可超過調整壓力。

WELDING INSTRUCTIONS（焊接方法）

Requirements on the welding device use for heating element butt welding

(following do DVS 2208, Part1)（使用焊接設備進行物件加熱對接之注意事項）

Clamping device

In order avoid high local stresses in the pipe and deformations, the clampling devices should surround at least the pipe casing as parallel as possible to the welding plane. By their high stability, it must be provided that the geometric circular from of the pipes will be maintained. They must not change their position in relation to the guide elements, even under the highest working force. For fittings, such as stub flanges and welding neck flanges, special clamping devices which prevent deformations of the workpiece have to be used.

The pipe clamped at the mobile machine side has eventually to be supported and exactly adjusted by means of easy-running dollies so that the working pressures and conditions required for welding can be maintained.

It is recommendable to use clamp elements adjustable in height to allow a better centering of the workpieces.

夾緊裝置

為了避免管內高壓與變形應力的產生，夾緊裝置應至少與焊接表面貼合。而藉由夾緊裝置的高穩定性，管口焊接表面將可維持幾何正圓。在焊接時即使承受高作業壓力，絕不可讓管子、配件、與閥門等物件改變與引導元件的相對位置。就配件而言，如塔型法蘭頭與焊接頸法蘭的接合作業中，夾緊裝置必須用來避免焊接元件的變形。安裝並夾緊於工作機器的管件最後將利用易於移動之滑車支撐與精密調整使焊接所需之工作壓力與條件能維持在一定範圍內。建議使用可調整高度之夾緊裝置使工作物件能得到精準之定位。

Guide elements

Together with the clamping devices,the guide elements have to ensure that the following maximum values for gap width (measured on cold joining surfaces) are not surpassed due to bending or beaming at the least favourable point in the respective working area of the machine at max. operating pressure and with wide pipe diameters:

Pipe outside diameter da[mm]	Gap width a[mm]
≤355	0,5
400÷<630	1,0
630÷<800	1,3
800÷≤1400	1,5

The gap width is measured by inserting a spacer at the point opposite to the guide while the plane-worked pipes are clamped. Guide elements have to be protected against corrosion at the sliding surfaces, e.g. by means of hard chrome plating.

引導元件

與夾緊裝置同時產生功用，當機器作業區域處於最高溫度與加工大尺寸管子時，引導元件用來確保最大間隙容忍寬度(於接合表面冷卻時測量)於焊接物件彎曲或輻射時不會被超過。

管口外徑 da[mm]	容許間隙寬度 a[mm]
≤355	0,5
400÷<630	1,0
630÷<800	1,3
800÷≤1400	1,5

間隙寬度是在引導元件與管件之間置入一間距量測器所測量出來，引導元件之滑動平面必須能夠抗腐蝕，如在該表面上鍍鉻抗氧化與抗腐蝕。

Heating elements

The heating element has to be plan-parallel with its effective area. Permissible deviations form plane-parallelity (measured at room temperature after heating the elements to maximum operating temperature at least once):

Pipe outside resp. edge lengty	Permissible deviation
÷25 0mm	≤ 0,2 mm
÷50 0mm	≤ 0,4 mm
>500 mm	≤ 0,8 mm

For processing in a workshop, the heating element is in general permanently mounted to the device. In case of a not permanetly attached heating element, adequate devices have to be provided for its insertion (e.g. handles, hocks links).

If size and nature of the heating elements necessitates its machine-driven removal from the joining surfaces, adequate equipment has to be provided too. The power supply has to be protected against thermal damage within the range of heating elements. Likewise, the effective surface of the heating element has to be protected against damage.

Protecting devices are to be used for keeping the heating element during the intervals between the welding processes.

加熱元件

加熱元件必須與其有效區域的平面平行，容許誤差間距是判斷平面平行度的依據(將加熱元件加熱至最大工作溫度至少一次後，待溫度回復至室溫下測量)。

熔接邊長相當於管口徑	可允許誤差
÷250mm	≤ 0,2 mm
÷500mm	≤ 0,4 mm
>500mm	≤ 0,8 mm

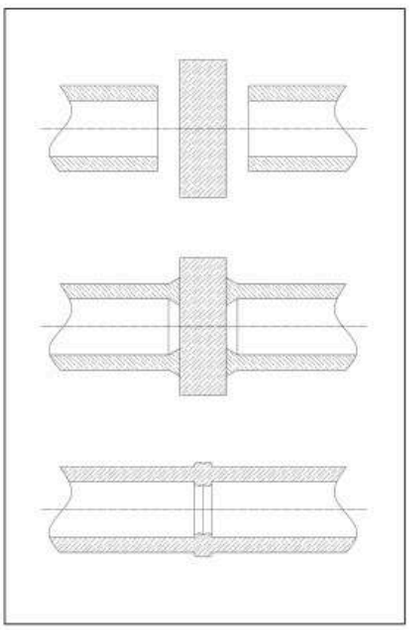
而在工作站的處理作業中，加熱元件通常持續與加熱設備安裝在一起，如果不是持續安裝在一起的加熱元件，則必須有足夠的設備來提供嵌入作業(如把手、勾鏈等)。

如果因電熱板尺寸其他原因需要用機器驅動離開焊接表面，需要有充分的設備。電源供應應避免被破壞，電熱板的表面也需予以保護免於損壞。

而在焊接過程中需使用對加熱板的保護工具。

Processing guidelines-HS-Hearting element butt welding
（焊接過程的操作）

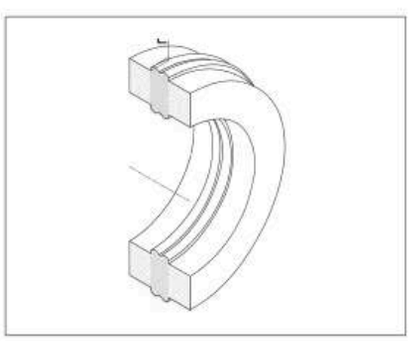
Performing of welding process(置入加熱板)



Insert heating element.(置入加熱板)
Impose required alignment pressure. The alignment pressure is maintained untiil the joining faces completely align onto the hearting element. By this moment, a bead must have been created surrounding the whole circumference of both parts to be welded. Reduce adjusting pressure p=0.01 N/mm^2 and let pass by the pre-heating time according to reference values table.
Remove heating element and join the surfaces to be welded-keep adjusting time as short as possible. Continuously increase adjusting pressure for the joining process until the required value is reached. Maintain the adjusting pressure until the welding seam has cooled down (sudden cooling with the help of cooling agents is not permitted). Remove clamps after the required cooling time.

推進平行的需要壓力，平形壓力要保持到焊件表面完全和電熱板成一線，同時，在所有焊件周圍已產生焊珠。減少調整壓力(p=0.01 N/mm^2),依數據表經過預熱時間。將電熱移開焊件相熔後將調整時間儘量縮短，持續增加調整壓力直到焊道冷卻(不允許使用其它急速冷卻媒介物質)。冷卻時間過後移開夾具。

Visual control and finishing of welding joint (視覺控制及焊點表面)

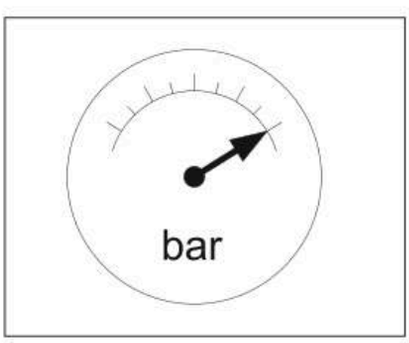


After joining, a baed surrounding the whole circumference must have been created. Furthermore, the welding bead has to be inspected with a view to the following:
* almost equally sized beads
* smooth bead surface
Possible differences in the formation of the beads may be justified by different flow behaviour of the joined materials. If the welding bead has to be removed for special reasons, this has to be done without leaving notches.

相熔後周圍必需產生焊珠。另外，焊珠必須能以下列方式檢查：
* 焊珠大小幾乎一樣
* 焊珠表面光滑

焊珠的成形的差別可以用來判定相熔物質不同的流動性。如果因特別原因焊珠需要去除，不要留下凹點。

Performing of pressure test (壓力測試)

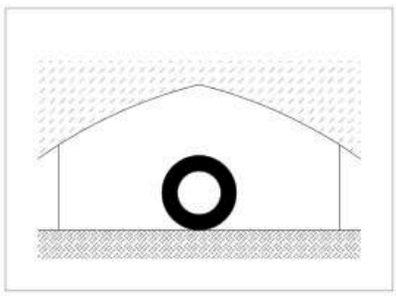


Before the pressure testing, all welding joints have to be completely cooled down (as a rule, 1 hour after the last welding process). The pressure test has to be performed according to the relevant standard regulations (e.g. DVS 2210 Part 1, DVGW working sheet W210).
The hereby imposed maximum test pressure is 1.5x PN, whereby during the test period (10 minutes at least) no pressure drop is allowed. The piping system has to be protected against changes of the ambient temperature (UV-radiation).

壓力測試前，所有的焊點必需完全冷卻(規定來說，最後焊點後1小時)。壓力測試需依據相關標準 (DVS2210 part 1，DVGW working sheet W210)，至少須注入1.5x PN，時間至少10分鐘沒有壓力下降為核可。管路系統必須保護免於室溫的變化(紫外線)。

WELDING INSTRUCTIONS Processing guidelines-heating element socket welding

Preparation of welding place (套接地點的準備)



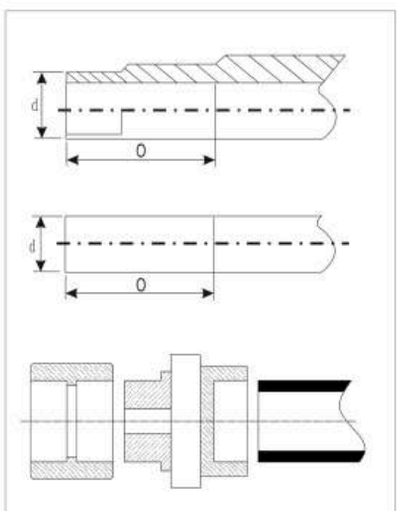
Assemble welding equipment (Prepare tools and machinery), control welding device.

組裝焊接設備(工具及機器)，控制冶具

Install welding tent or similar device.

安裝焊接帳篷或類似的裝備

Preparation of welding seam (at any rate immediately before starting the welding process) 套接間隙的準備 (可以立即套接動作)



Cut off pipe faces at right angles and remove flashes on the inside with a knife.Work the pipe faces with a scraper until the blades of the scraper flush with the pipe face. Thoroughly clean welding area of pipe and fittings with fluffless paper and cleansing agents (acetone or similar). If peeling is not necessary, work pipe surface with a scraper knife and mark the depth (t) on pipe.

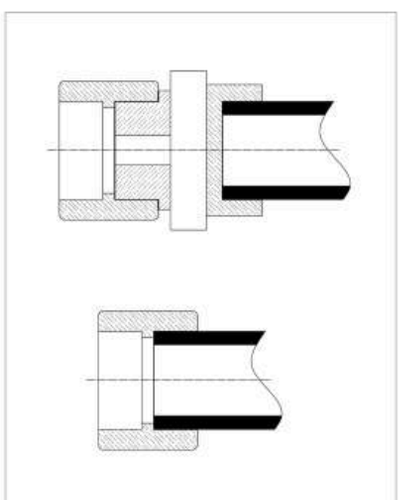
將管子正面角度切下，用刀將管內的屑片清除，用刮刀將管子表面刮除。
管子及配件表面用沒有絨毛的紙清潔，如果不需刮除表面，用刮刀再管子表面做深度記號(T)。

Preparations before welding (套接前的準備)

Check temperature of heating element (on heating spigot and on heating socket).Thoroughly clean heating spigot and heating socket immediately before each welding process (with fluffless paper). At any rate be careful that possibly clogging melt residues are removed.

檢查電熱板的溫度(在內插口、及外插口)，在每管口焊完後要立即用無絨毛紙清潔內插口及外插口。注意可能黏住的焊殘餘要清除。

Performing of welding process (套接過程的操作)



Quickly push fitting and pipe in axial direction onto the heating spigot or into the heating socket until the end stop (or marking). Let pass by pre-heating time according to table values. After the pre-heating time, pull fitting and pipe off the heating element with one heave and immediately fit them into each other without twisting them until both welding beads meet. Let the joint cool down, than remove clamps. Only after the cooling time, the joint may be stressed by further laying processes. On manual welding. Adjust the parts and hold them fast under pressure for at least one minute.

儘快的將管子和配件以向軸的方向推進內套或外套口直到停止處(或記號)。
依據表的數據經過預熱時間後將配件，管子移開電熱板立即將管及配件相互合在一起，直到互相產生焊珠，讓熔接溫度冷卻後，移開夾具，冷卻後，熔點有可能受隨後鋪設，手工焊接的應力。調整另件並壓力下至少保持住一分鐘。

Heating element socket welding (following to DVS 2207, Part 11 for PP-H)
（插管套接操作）

Welding method（套接方法）

On heating element socket welding, pipe and fittings are lap-welded. The pipe end and fitting socket are heated up to welding temperature by means of a socket-like or a spigot-like heating element and afterwards, thy are joined.

在熱插套焊中，管子和配件是交疊式焊法，管端和配件插口用內套及外套電熱板加熱到焊接溫度使管子和配件相熔接。

The dimensions of pipe end, heating element and fitting socket are coordinated so that a joining pressure builds up on joining (see schematic sketh).

管端尺寸、電熱板和配件插口是互相同等的，所以熔接壓力在熔接時建立起來(參看草圖)。

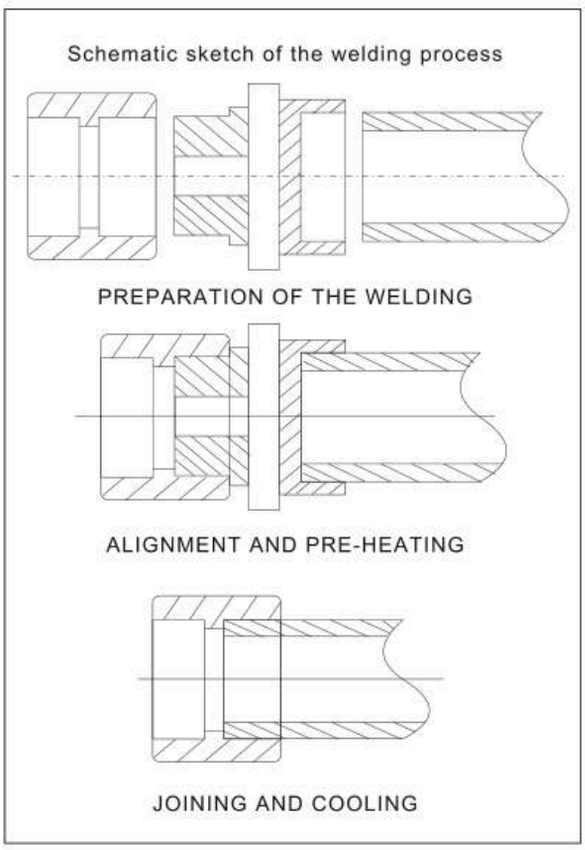
Heating element socket weldings may be manually performed up to pipe outside diameters of 40mm. Above that, use a welding device because of increasing joining forces.

熱插套焊可以用手動式操做到管子外境40㎜，以上尺寸使用焊接工具來增加熔接力量。

The guidelines of the DVS are be adhered to during the whole welding process!

在整個套焊接過程中需依據DVS的規範。

Welding temperature (T) (焊接溫度)	
PP-H / PP-R	250 / 270°C



Pre-heating time AW
(sec)
PN6

Welding parameters(套接係數)

Reference values for the heating element socket welding of PP-H pipes and fittings at an outside temperature of about 20 C and low airspeed rates

以下數據為PP-H管、配件在室外溫度20 C以上的套焊參考數據

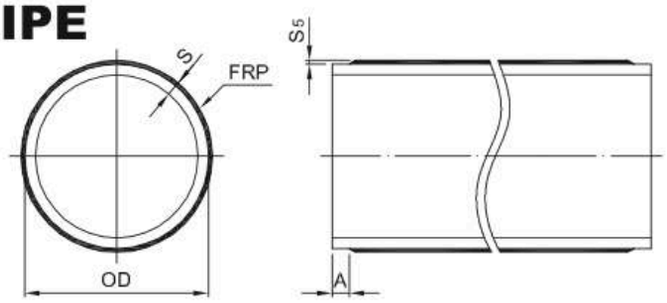
Pipe outside diameter (管外徑) (mm)	Welding temperature (套接溫度) (°C)	Pre-heating time tAW(預熱時間) (sec)(秒)		Adjusting time (調整時間) tu (sec)	Cooling time tAK (冷卻時間) (min)
		PN6	PN10		
16	250 / 270	"	5	4	2
20			5		
25			7		
32	250 / 270	"	8	6	4
40		"	12		
50		"	18		
63	250 / 270	"	24	8	6
75		15	30		
90		22	40		
110	250 / 270	30	50	10	8

* not recommended because of too low wall thickness
(不建議，因為管壁太薄)

PP-H(FRP COATED)PIPE

DIN 8077/8078
Storage length:5m
(Special lengths on request)

直管 **PP-H(FRP COATED)PIPE**
DFP PIO

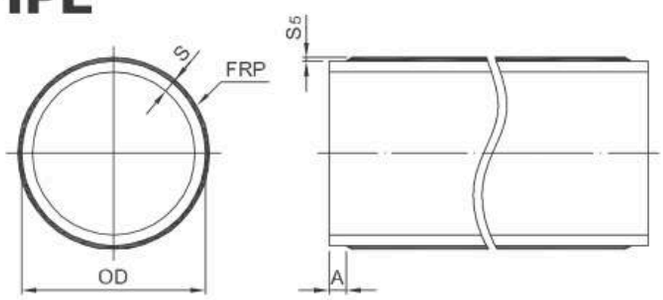


OD (mm)	Ventilation				S5 FRP (mm)	A (mm)	SDR41 ISO S20 PN2.5		SDR33 ISO S16 PN3.2		SDR26 ISO S12.5 PN4	
	S (mm)	Weight (kg/m)	S (mm)	Weight (kg/m)			Code	S (mm)	Code	S (mm)	Code	S (mm)
10	-	-	-	-	2	20	-	-	-	-	-	-
12	-	-	-	-	2	20	-	-	-	-	-	-
16	-	-	-	-	2	20	-	-	-	-	-	-
20	-	-	-	-	2	25	-	-	-	-	-	-
25	-	-	-	-	2	30	-	-	-	-	-	-
32	-	-	-	-	2	35	-	-	-	-	-	-
40	-	-	-	-	2	35	-	-	-	-	23-PIO-26-0040	3.8
50	-	-	-	-	2	35	-	-	23-PIO-33-0050	3.8	23-PIO-26-0050	4.0
63	-	-	-	-	3	35	23-PIO-41-0063	4.8	23-PIO-33-0063	5.0	23-PIO-26-0063	5.5
75	-	-	-	-	3	40	23-PIO-41-0075	4.9	23-PIO-33-0075	5.3	23-PIO-26-0075	5.9
90	-	-	-	-	3	40	23-PIO-41-0090	5.2	23-PIO-33-0090	5.8	23-PIO-26-0090	6.5
110	-	-	-	-	3	40	23-PIO-41-0110	5.7	23-PIO-33-0110	6.4	23-PIO-26-0110	7.2
125	-	-	-	-	3	45	23-PIO-41-0125	6.1	23-PIO-33-0125	6.9	23-PIO-26-0125	7.8
140	-	-	-	-	3	50	23-PIO-41-0140	6.5	23-PIO-33-0140	7.3	23-PIO-26-0140	8.4
160	-	-	-	-	3	55	23-PIO-41-0160	7.0	23-PIO-33-0160	7.9	23-PIO-26-0160	9.2
180	-	-	-	-	3	55	23-PIO-41-0180	7.4	23-PIO-33-0180	8.5	23-PIO-26-0180	9.9
200	-	-	-	-	3	60	23-PIO-41-0200	7.9	23-PIO-33-0200	9.2	23-PIO-26-0200	10.7
225	-	-	-	-	3	70	23-PIO-41-0225	8.5	23-PIO-33-0225	9.9	23-PIO-26-0225	11.6
250	-	-	-	-	5	70	23-PIO-41-0250	11.2	23-PIO-33-0250	12.7	23-PIO-26-0250	14.6
280	-	-	-	-	5	80	23-PIO-41-0280	11.9	23-PIO-33-0280	13.6	23-PIO-26-0280	15.7
315	-	-	-	-	5	90	23-PIO-41-0315	12.7	23-PIO-33-0315	14.7	23-PIO-26-0315	17.1
355	-	-	-	-	5	100	23-PIO-41-0355	13.7	23-PIO-33-0355	15.9	23-PIO-26-0355	18.6
400	6.0	7.2	8.0	9.7	5	110	23-PIO-41-0400	14.8	23-PIO-33-0400	17.3	23-PIO-26-0400	20.3
450	6.0	8.2	8.0	11.0	5	120	23-PIO-41-0450	16.0	23-PIO-33-0450	18.8	23-PIO-26-0450	22.2
500	8.0	11.9	10.0	15.1	8	140	23-PIO-41-0500	20.3	23-PIO-33-0500	23.3	23-PIO-26-0500	27.1
560	8.0	13.4	-	-	8	150	23-PIO-41-0560	21.7	23-PIO-33-0560	25.2	23-PIO-26-0560	29.4
630	10.0	18.8	-	-	8	170	23-PIO-41-0630	23.4	23-PIO-33-0630	27.3	23-PIO-26-0630	32.1
710	12.0	25.3	-	-	8	180	23-PIO-41-0710	25.4	23-PIO-33-0710	29.8	23-PIO-26-0710	35.2
800	12.0	28.6	-	-	8	210	23-PIO-41-0800	27.6	23-PIO-33-0800	32.5	23-PIO-26-0800	38.6
900	15.0	40.2	-	-	12	230	23-PIO-41-0900	34.0	23-PIO-33-0900	39.6	23-PIO-26-0900	46.4
1000	15.0	44.7	-	-	12	240	23-PIO-41-1000	36.5	23-PIO-33-1000	42.6	23-PIO-26-1000	50.2
1200	18.0	64.1	-	-	12	260	23-PIO-41-1200	41.4	23-PIO-33-1200	48.7	23-PIO-26-1200	-

PP-H(FRP COATED)PIPE

DIN 8077/8078
Storage length:5m
(Special lengths on request)

直管 PP-H(FRP COATED)PIPE
DFP PIO

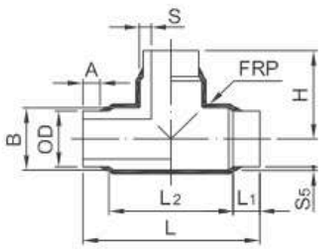


OD (mm)	Ventilation				S5 FRP (mm)	A (mm)	SDR17.6 ISO S8.3 PN6		SDR11 ISO S5 PN10		SDR7.4 ISO S3.2 PN16	
	S (mm)	Weight (kg/m)	S (mm)	Weight (kg/m)			Code	S (mm)	Code	S (mm)	Code	S (mm)
10	-	-	-	-	2	20	-	-	-	-	23-PIO-07-0010	3.8
12	-	-	-	-	2	20	-	-	-	-	23-PIO-07-0012	3.8
16	-	-	-	-	2	20	-	-	23-PIO-11-0016	3.8	23-PIO-07-0016	4.3
20	-	-	-	-	2	25	23-PIO-17-0020	3.8	23-PIO-11-0020	3.9	23-PIO-07-0020	4.8
25	-	-	-	-	2	30	23-PIO-17-0025	3.8	23-PIO-11-0025	4.3	23-PIO-07-0025	5.5
32	-	-	-	-	2	35	23-PIO-17-0032	4.0	23-PIO-11-0032	4.9	23-PIO-07-0032	6.4
40	-	-	-	-	2	35	23-PIO-17-0040	4.3	23-PIO-11-0040	5.7	23-PIO-07-0040	7.5
50	-	-	-	-	2	35	23-PIO-17-0050	4.9	23-PIO-11-0050	6.6	23-PIO-07-0050	8.9
63	-	-	-	-	3	35	23-PIO-17-0063	6.6	23-PIO-11-0063	8.8	23-PIO-07-0063	11.6
75	-	-	-	-	3	40	23-PIO-17-0075	7.3	23-PIO-11-0075	9.8	23-PIO-07-0075	13.3
90	-	-	-	-	3	40	23-PIO-17-0090	8.1	23-PIO-11-0090	11.2	23-PIO-07-0090	15.3
110	-	-	-	-	3	40	23-PIO-17-0110	9.3	23-PIO-11-0110	13.0	23-PIO-07-0110	18.1
125	-	-	-	-	3	45	23-PIO-17-0125	10.1	23-PIO-11-0125	14.4	23-PIO-07-0125	20.1
140	-	-	-	-	3	50	23-PIO-17-0140	11.0	23-PIO-11-0140	15.7	23-PIO-07-0140	22.2
160	-	-	-	-	3	55	23-PIO-17-0160	12.1	23-PIO-11-0160	17.6	23-PIO-07-0160	24.9
180	-	-	-	-	3	55	23-PIO-17-0180	13.2	23-PIO-11-0180	19.4	23-PIO-07-0180	27.83
200	-	-	-	-	3	60	23-PIO-17-0200	14.4	23-PIO-11-0200	21.2	23-PIO-07-0200	30.47
225	-	-	-	-	3	70	23-PIO-17-0225	15.8	23-PIO-11-0225	23.5	23-PIO-07-0225	34.03
250	-	-	-	-	5	70	23-PIO-17-0250	19.2	23-PIO-11-0250	27.7	23-PIO-07-0250	39.48
280	-	-	-	-	5	80	23-PIO-17-0280	20.9	23-PIO-11-0280	30.4	23-PIO-07-0280	43.62
315	-	-	-	-	5	90	23-PIO-17-0315	22.9	23-PIO-11-0315	33.6	23-PIO-07-0315	48.45
355	-	-	-	-	5	100	23-PIO-17-0355	25.1	23-PIO-11-0355	37.2	-	-
400	6.0	7.2	8.0	9.7	5	110	23-PIO-17-0400	27.7	23-PIO-11-0400	41.3	-	-
450	6.0	8.2	8.0	11.0	5	120	23-PIO-17-0450	30.5	23-PIO-11-0450	45.9	-	-
500	8.0	11.9	10.0	15.1	8	140	23-PIO-17-0500	36.3	23-PIO-11-0500	53.4	-	-
560	8.0	13.4	-	-	8	150	23-PIO-17-0560	39.7	23-PIO-11-0560	-	-	-
630	10.0	18.8	-	-	8	170	23-PIO-17-0630	43.7	23-PIO-11-0630	-	-	-
710	12.0	25.3	-	-	8	180	23-PIO-17-0710	48.2	23-PIO-11-0710	-	-	-
800	12.0	28.6	-	-	8	210	23-PIO-17-0800	53.3	23-PIO-11-0800	-	-	-
900	15.0	40.2	-	-	12	230	23-PIO-17-0900	63.2	23-PIO-11-0900	-	-	-
1000	15.0	44.7	-	-	12	240	23-PIO-17-1000	68.8	23-PIO-11-1000	-	-	-
1200	18.0	64.1	-	-	12	260	23-PIO-17-1200	80.1	23-PIO-11-1200	-	-	-

PP-H(FRP COATED)TEE

reinforced
for butt welding
molded from PP-H

對接正三通 PP-H(披覆FRP)
DFP TT1

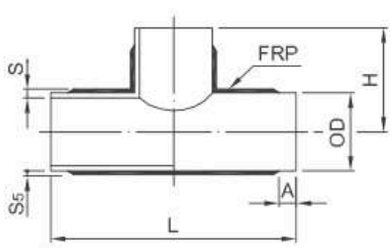


OD (mm)	H (mm)	L (mm)	L1 (mm)	L2 (mm)	B (mm)	S5 FRP (mm)	A (mm)	SDR17.6 ISO S8.3 PN6		SDR11 ISO S5 PN10		SDR7.4 ISO S3.2 PN16	
								Code	S (mm)	Code	S (mm)	Code	S (mm)
20	42.00	84.0	20.0	40.0	21.0	2	25	-	-	23-TT1-11-0020	4.5	23-TT1-07-0020	4.8
25	47.00	95.0	20.0	50.0	26.0	2	30	-	-	23-TT1-11-0025	4.7	23-TT1-07-0025	5.5
32	51.00	100.0	20.0	55.0	33.4	2	35	-	-	23-TT1-11-0032	5.0	23-TT1-07-0032	6.5
40	53.00	105.0	20.0	71.5	42.0	2	35	-	-	23-TT1-11-0040	5.7	23-TT1-07-0040	7.6
50	64.00	123.0	25.0	76.0	52.0	2	35	23-TT1-17-0050	4.9	23-TT1-11-0050	6.6	23-TT1-07-0050	8.9
63	75.00	146.0	25.0	96.0	65.0	3	35	23-TT1-17-0063	6.6	23-TT1-11-0063	8.8	23-TT1-07-0063	11.7
75	86.00	171.0	25.0	120.0	76.8	3	40	23-TT1-17-0075	7.3	23-TT1-11-0075	9.9	23-TT1-07-0075	13.4
90	91.75	199.0	36.0	117.0	93.5	3	40	23-TT1-17-0090	8.1	23-TT1-11-0090	11.2	23-TT1-07-0090	15.5
110	110.5	238.5	48.0	148.5	114.0	3	40	23-TT1-17-0110	9.3	23-TT1-11-0110	13.0	23-TT1-07-0110	18.2
125	135.5	272.0	52.0	169.0	133.0	3	45	23-TT1-17-0125	10.1	23-TT1-11-0125	14.4	-	-
140	126.0	352.0	83.4	182.0	150.0	3	50	23-TT1-17-0140	11.0	23-TT1-11-0140	15.8	-	-
160	137.0	370.0	84.5	204.0	170.0	3	55	23-TT1-17-0160	12.1	23-TT1-11-0160	17.6	-	-
180	180.0	360.0	57.0	247.0	190.0	3	55	23-TT1-17-0180	13.2	23-TT1-11-0180	19.4	-	-
200	188.5	380.0	57.0	266.0	210.0	3	60	23-TT1-17-0200	14.4	23-TT1-11-0200	21.2	-	-
225	241.0	484.0	102.5	260.0	235.0	3	70	23-TT1-17-0020	15.8	23-TT1-11-0020	23.5	-	-
250	232.5	468.0	70.0	328.0	262.0	5	70	23-TT1-17-0250	19.2	23-TT1-11-0250	27.8	-	-
280	257.0	514.0	70.0	374.0	284.0	5	80	23-TT1-17-0280	20.9	23-TT1-11-0280	30.5	-	-
315	275.0	550.0	70.0	410.0	331.0	5	90	23-TT1-17-0315	22.9	23-TT1-11-0315	33.7	-	-

PP-H(FRP COATED)TEE

(Fabricated)
for butt welding
molded from PP-H

手工正三通 PP-H(披覆FRP)
DFP TT4



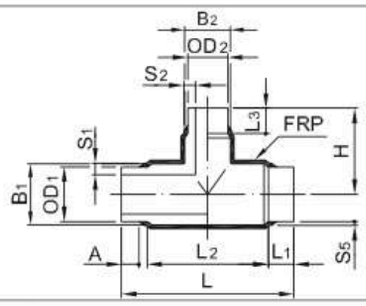
OD (mm)	H (mm)	L (mm)	S5 FRP (mm)	A (mm)	SDR33 ISO S16 PN3.2		SDR26 ISO S12.5 PN4		SDR17.6 ISO S8.3 PN6		SDR11 ISO S5 PN10	
					Code	S (mm)	Code	S (mm)	Code	S (mm)	Code	S (mm)
355	362.5	725	5	100	23-TT4-33-0355	16.1	23-TT4-26-0355	18.7	23-TT4-17-0355	25.1	23-TT4-11-0355	37.3
400	410	820	5	110	23-TT4-33-0400	17.4	23-TT4-26-0400	20.4	23-TT4-17-0400	27.7	23-TT4-11-0400	41.4
450	460	920	5	120	23-TT4-33-0450	19.0	23-TT4-26-0450	22.4	23-TT4-17-0450	30.5	23-TT4-11-0450	46.0
500	510	1020	8	140	23-TT4-33-0500	23.5	23-TT4-26-0500	27.3	23-TT4-17-0500	36.3	23-TT4-11-0500	53.5
560	570	1140	8	150	23-TT4-33-0560	25.4	23-TT4-26-0560	29.6	23-TT4-17-0560	39.7	23-TT4-11-0560	58.9
630	640	1280	8	170	23-TT4-33-0630	27.6	23-TT4-26-0630	32.3	23-TT4-17-0630	43.7	23-TT4-11-0630	65.2
710	720	1440	8	180	23-TT4-33-0710	30.1	23-TT4-26-0710	35.4	23-TT4-17-0710	48.2	23-TT4-11-0710	72.5
800	810	1620	8	210	23-TT4-33-0800	32.9	23-TT4-26-0800	38.8	23-TT4-17-0800	53.5	23-TT4-11-0800	80.7
900	910	1820	12	230	23-TT4-33-0900	40.0	23-TT4-26-0900	46.7	23-TT4-17-0900	63.2	23-TT4-11-0900	93.8
1000	1020	2040	12	240	23-TT4-33-1000	43.1	23-TT4-26-1000	50.5	23-TT4-17-1000	68.8	23-TT4-11-1000	102.9
1200	1220	2440	12	260	23-TT4-33-1200	48.7	23-TT4-26-1200	57.9	23-TT4-17-1200	80.1	23-TT4-11-1200	121.0

手工製品(Fabricated)

PP-H(FRP COATED) REDUCED TEE

for butt welding
molded form PP-H

對接異徑三通PP-H(披覆FRP)
DFP TR1



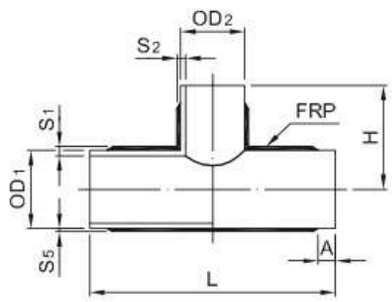
OD1/OD2 (mm)	H (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	B1 (mm)	B2 (mm)	S5 FRP (mm)	A (mm)	SDR17.6 ISO S8.3 PN6		SDR11 ISO S5 PN10	
										Code	S (mm)	Code	S (mm)
63-32	68.5	124	26	72	26	65.0	33.4	3	35	23-TR1-17-063032	6.6/4.9	23-TR1-11-063032	8.8/6.0
63-50	68.5	124	26	72	26	65.0	52.0	3	35	23-TR1-17-063050	6.6/5.9	23-TR1-11-063050	8.8/7.6
75-50	74.5	127	26	75	26	76.8	52.0	3	40	23-TR1-17-075050	7.3/5.9	23-TR1-11-075050	9.9/7.6
75-63	74.5	127	26	75	26	76.8	65.0	3	40	23-TR1-17-075063	7.3/6.6	23-TR1-11-075063	9.9/8.8
90-63	85.2	153.8	26	101.8	26	93.5	65.0	3	40	23-TR1-17-090063	8.1/6.6	23-TR1-11-090063	11.2/8.8
90-75	85.2	153.8	26	101.8	26	93.5	76.8	3	40	23-TR1-17-090075	8.1/7.3	23-TR1-11-090075	11.2/9.9
△110-32	101	218	-	-	-	-	-	3	40	23-TR1-17-110032	9.3/4.9	23-TR1-11-110032	13.0/6.0
△110-40	101	218	-	-	-	-	-	3	40	23-TR1-17-110040	9.3/5.3	23-TR1-11-110040	13.0/6.7
△110-50	101	218	-	-	-	-	-	3	40	23-TR1-17-110050	9.3/5.9	23-TR1-11-110050	13.0/7.6
110-63	101	218	30	158	26	114	65.0	3	40	23-TR1-17-110063	9.3/6.6	23-TR1-11-110063	13.0/8.8
△110-75	101	218	-	-	-	-	-	3	40	23-TR1-17-110075	9.3/7.3	23-TR1-11-110075	13.0/9.9
110-90	101	218	30	158	29	114	93.5	3	40	23-TR1-17-110090	9.3/8.1	23-TR1-11-110090	13.0/11.2
△125-40	106	214	-	-	-	-	-	3	45	23-TR1-17-125040	10.1/5.3	23-TR1-11-125040	13.4/6.7
△125-50	106	214	-	-	-	-	-	3	45	23-TR1-17-125050	10.1/5.9	23-TR1-11-125050	14.4/7.6
△125-63	106	214	35	144	26	130	65.0	3	45	23-TR1-17-125063	10.1/6.6	23-TR1-11-125063	14.4/8.8
125-75	106	214	35	144	26	130	76.8	3	45	23-TR1-17-125075	10.1/7.3	23-TR1-11-125075	14.4/9.9
125-90	106	214	35	144	26	130	93.5	3	45	23-TR1-17-125090	10.1/8.1	23-TR1-11-125090	14.4/11.2
125-110	106	214	35	144	30	130	114.0	3	45	23-TR1-17-125110	10.1/9.3	23-TR1-11-125110	14.4/13.0
△140-50	114	214	-	-	-	-	-	3	50	23-TR1-17-140050	11.0/5.9	23-TR1-11-140050	15.8/7.6
△140-63	114	214	35	144	26	146	65.0	3	50	23-TR1-17-140063	11.0/6.6	23-TR1-11-140063	15.8/8.8
140-75	114	214	35	144	26	146	76.8	3	50	23-TR1-17-140075	11.0/7.3	23-TR1-11-140075	15.8/9.9
140-90	114	214	35	144	26	146	93.5	3	50	23-TR1-17-140090	11.0/8.1	23-TR1-11-140090	15.8/11.2
140-110	114	214	35	144	30	146	114.0	3	50	23-TR1-17-140110	11.0/9.3	23-TR1-11-140110	15.8/13.0
△140-125	114	214	-	-	-	-	-	3	50	23-TR1-17-140125	11.0/10.1	23-TR1-11-140125	15.8/14.4
160-63	126	286	35	144	26	167	65.0	3	55	23-TR1-17-160063	12.1/6.6	23-TR1-11-160063	17.6/8.8
△160-75	126	286	-	-	-	-	-	3	55	23-TR1-17-160075	12.1/7.3	23-TR1-11-160075	17.6/9.9
160-90	133	286	35	144	26	167	93.5	3	55	23-TR1-17-160090	12.1/8.1	23-TR1-11-160090	17.6/11.2
160-110	133	286	35	144	29	167	114.0	3	55	23-TR1-17-160110	12.1/9.3	23-TR1-11-160110	17.6/13.0
160-125	133	286	-	-	-	-	-	3	55	23-TR1-17-160125	12.1/10.1	23-TR1-11-160125	17.6/14.4
160-140	133	286	-	-	-	-	-	3	55	23-TR1-17-160140	12.1/11.0	23-TR1-11-160140	17.6/15.8
△180-63	144	220	35	150	26	188	65.0	3	55	23-TR1-17-180063	13.2/6.6	23-TR1-11-180063	19.4/8.8
△180-75	144	220	35	150	26	188	76.8	3	55	23-TR1-17-180075	13.2/7.3	23-TR1-11-180075	19.4/9.9
180-90	144	220	35	150	26	188	93.5	3	55	23-TR1-17-180090	13.2/8.1	23-TR1-11-180090	19.4/11.2
180-110	144	220	35	150	30	188	114.0	3	55	23-TR1-17-180110	13.2/9.3	23-TR1-11-180110	19.4/13.0
180-125	144	220	35	150	35	188	130.0	3	55	23-TR1-17-180125	13.2/10.1	23-TR1-11-180125	19.4/14.4
△180-140	144	220	-	-	-	-	-	3	55	23-TR1-17-180140	13.2/11.0	23-TR1-11-180140	19.4/15.8
△180-160	144	220	-	-	-	-	-	3	55	23-TR1-17-180160	13.2/12.1	23-TR1-11-180160	19.4/17.6

△ 轉接品(Transition)

PP-H(FRP COATED) REDUCED TEE

for butt welding
molded from PP-H

對接異徑三通 PP-H(披覆FRP)
DFP TR1



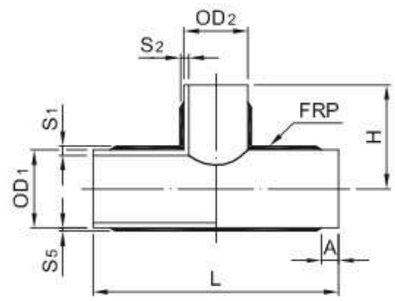
OD1/OD2 (mm)	H (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	B1 (mm)	B2 (mm)	S5 FRP (mm)	A (mm)	SDR17.6 ISO S8.3 PN6		SDR11 ISO S5 PN10	
										Code	S (mm)	Code	S (mm)
△ 200-63	157.0	273	35	203	26	208	65.0	3	60	21-TR1-17-200063	14.4/6.6	21-TR1-11-200063	21.2/8.8
△ 200-90	157.0	273	35	203	26	208	93.5	3	60	21-TR1-17-200090	14.4/8.1	21-TR1-11-200090	21.2/11.2
200-110	157.0	273	35	203	30	208	114.0	3	60	21-TR1-17-200110	14.4/9.3	21-TR1-11-200110	21.2/13.0
200-125	157.0	273	35	203	35	208	130.0	3	60	21-TR1-17-200125	14.4/10.1	21-TR1-11-200125	21.2/14.4
200-140	157.0	273	35	203	35	208	146.0	3	60	21-TR1-17-200140	14.4/11.0	21-TR1-11-200140	21.2/15.8
200-160	157.0	273	35	203	35	208	167.0	3	60	21-TR1-17-200160	14.4/12.1	21-TR1-11-200160	21.2/17.6
200-180	157.0	273	-	-	-	-	-	3	60	21-TR1-17-200180	14.4/13.2	21-TR1-11-200180	21.2/19.4
△ 225-75	171.5	306	40	226	26	235	76.8	3	70	21-TR1-17-225075	15.8/7.3	21-TR1-11-225075	23.5/9.9
△ 225-90	171.5	306	40	226	26	235	93.5	3	70	21-TR1-17-225090	15.8/8.1	21-TR1-11-225090	23.5/11.2
△ 225-110	171.5	306	40	226	30	235	114.0	3	70	21-TR1-17-225110	15.8/9.3	21-TR1-11-225110	23.5/13.0
225-125	171.5	306	40	226	35	235	130.0	3	70	21-TR1-17-225125	15.8/10.1	21-TR1-11-225125	23.5/14.4
△ 225-140	171.5	306	-	-	-	-	-	3	70	21-TR1-17-225140	15.8/11.0	21-TR1-11-225140	23.5/15.8
225-160	171.5	306	40	226	35	235	167.0	3	70	21-TR1-17-225160	15.8/12.1	21-TR1-11-225160	23.5/17.6
225-180	171.5	306	40	226	35	235	188.0	3	70	21-TR1-17-225180	15.8/13.2	21-TR1-11-225180	23.5/19.4
△ 225-200	171.5	306	-	-	-	-	-	3	70	21-TR1-17-225200	15.8/14.4	21-TR1-11-225200	23.5/21.2
△ 250-110	188.0	325	45	235	30	260	114.0	5	70	21-TR1-17-250110	19.2/11.3	21-TR1-11-250110	27.8/15.0
△ 250-125	188.0	325	-	-	-	-	-	5	70	21-TR1-17-250125	19.2/12.1	21-TR1-11-250125	27.8/16.4
△ 250-140	188.0	325	45	235	35	260	146.0	5	70	21-TR1-17-250140	19.2/13.0	21-TR1-11-250140	27.8/17.8
250-160	188.0	325	45	235	35	260	167.0	5	70	21-TR1-17-250160	19.2/14.1	21-TR1-11-250160	27.8/19.6
△ 250-180	188.0	325	-	-	-	-	-	5	70	21-TR1-17-250180	19.2/15.2	21-TR1-11-250180	27.8/21.4
250-200	188.0	325	45	235	35	260	208.0	5	70	21-TR1-17-250200	19.2/16.4	21-TR1-11-250200	27.8/23.2
250-225	188.0	325	45	235	40	260	235.0	5	70	21-TR1-17-250225	19.2/17.8	21-TR1-11-250225	27.8/25.5
* 280-140	230	440	-	-	-	-	-	5	80	21-TR1-17-280140	20.9/13.0	21-TR1-11-280140	30.5/17.8
* 280-160	240	460	-	-	-	-	-	5	80	21-TR1-17-280160	20.9/14.1	21-TR1-11-280160	30.5/19.6
* 280-180	240	480	-	-	-	-	-	5	80	21-TR1-17-280180	20.9/15.2	21-TR1-11-280180	30.5/21.4
* 280-200	250	500	-	-	-	-	-	5	80	21-TR1-17-280200	20.9/16.4	21-TR1-11-280200	30.5/23.2
* 280-225	260	525	-	-	-	-	-	5	80	21-TR1-17-280225	20.9/17.8	21-TR1-11-280225	30.5/25.5
* 280-250	275	550	-	-	-	-	-	5	80	21-TR1-17-280250	20.9/19.2	21-TR1-11-280250	30.5/27.8
* 315-160	257.5	500	-	-	-	-	-	5	90	21-TR1-17-315160	22.9/14.1	21-TR1-11-315160	33.7/19.6
* 315-180	257.5	520	-	-	-	-	-	5	90	21-TR1-17-315180	22.9/15.2	21-TR1-11-315180	33.7/21.4
* 315-200	267.5	540	-	-	-	-	-	5	90	21-TR1-17-315200	22.9/16.4	21-TR1-11-315200	33.7/23.2
* 315-225	277.5	565	-	-	-	-	-	5	90	21-TR1-17-315225	22.9/17.8	21-TR1-11-315225	33.7/25.5
* 315-250	292.5	590	-	-	-	-	-	5	90	21-TR1-17-315250	22.9/19.2	21-TR1-11-315250	33.7/27.8
* 315-280	307.5	620	-	-	-	-	-	5	90	21-TR1-17-315280	22.9/20.9	21-TR1-11-315280	33.7/30.5

△ 轉接品(Transition)　＊ 手工製品(Fabricated)

PP-H(FRP COATED) REDUCED TEE

for butt welding
molded from PP-H

對接異徑三通 **PP-H(披覆FRP)**
DFP TR1



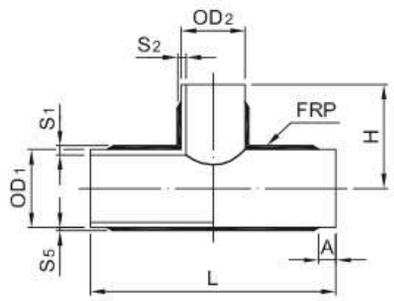
OD1/OD2 (mm)	H (mm)	L (mm)	S5 FRP (mm)	A (mm)	SDR17.6 ISO S8.3 PN6		SDR11 ISO S5 PN10	
					Code	S (mm)	Code	S (mm)
355-180	277.5	550	5	100	23-TR3-17-355180	25.1/15.2	23-TR3-11-355180	37.3/21.4
355-200	287.5	570	5	100	23-TR3-17-355200	25.1/16.4	23-TR3-11-355200	37.3/23.2
355-225	297.5	595	5	100	23-TR3-17-355225	25.1/17.8	23-TR3-11-355225	37.3/25.5
355-250	312.5	620	5	100	23-TR3-17-355250	25.1/19.2	23-TR3-11-355250	37.3/27.8
355-280	327.5	650	5	100	23-TR3-17-355280	25.1/20.9	23-TR3-11-355280	37.3/30.5
355-315	347.5	685	5	100	23-TR3-17-355315	25.1/22.9	23-TR3-11-355315	37.3/33.7
400-200	310	620	5	110	23-TR3-17-400200	27.7/16.4	23-TR3-11-400200	41.4/23.2
400-225	320	645	5	110	23-TR3-17-400225	27.7/17.8	23-TR3-11-400225	41.4/25.5
400-250	335	670	5	110	23-TR3-17-400250	27.7/19.2	23-TR3-11-400250	41.4/27.8
400-280	350	700	5	110	23-TR3-17-400280	27.7/20.9	23-TR3-11-400280	41.4/30.5
400-315	370	735	5	110	23-TR3-17-400315	27.7/22.9	23-TR3-11-400315	41.4/33.7
400-355	385	775	5	110	23-TR3-17-400355	27.7/25.1	23-TR3-11-400355	41.4/37.3
450-225	345	695	5	120	23-TR3-17-450225	30.5/17.8	23-TR3-11-450225	46.0/25.5
450-250	360	720	5	120	23-TR3-17-450250	30.5/19.2	23-TR3-11-450250	46.0/27.8
450-280	375	750	5	120	23-TR3-17-450280	30.5/20.9	23-TR3-11-450280	46.0/30.5
450-315	395	785	5	120	23-TR3-17-450315	30.5/22.9	23-TR3-11-450315	46.0/33.7
450-355	410	825	5	120	23-TR3-17-450355	30.5/25.1	23-TR3-11-450355	46.0/37.3
450-400	435	870	5	120	23-TR3-17-450400	30.5/27.7	23-TR3-11-450400	46.0/41.4
500-250	385	770	8	140	23-TR3-17-500250	36.3/22.2	23-TR3-11-500250	53.5/30.8
500-280	400	800	8	140	23-TR3-17-500280	36.3/23.9	23-TR3-11-500280	53.5/33.5
500-315	420	835	8	140	23-TR3-17-500315	36.3/25.9	23-TR3-11-500315	53.5/36.7
500-355	435	875	8	140	23-TR3-17-500355	36.3/28.1	23-TR3-11-500355	53.5/40.3
500-400	460	920	8	140	23-TR3-17-500400	36.3/30.7	23-TR3-11-500400	53.5/44.4
500-450	485	970	8	140	23-TR3-17-500450	36.3/33.5	23-TR3-11-500450	53.5/49.0
560-280	430	860	8	150	23-TR3-17-560280	39.7/23.9	23-TR3-11-560280	58.9/33.5
560-315	450	895	8	150	23-TR3-17-560315	39.7/25.9	23-TR3-11-560315	58.9/36.7
560-355	465	935	8	150	23-TR3-17-560355	39.7/28.1	23-TR3-11-560355	58.9/40.3
560-400	490	980	8	150	23-TR3-17-560400	39.7/30.7	23-TR3-11-560400	58.9/44.4
560-450	515	1030	8	150	23-TR3-17-560450	39.7/33.5	23-TR3-11-560450	58.9/49.0
560-500	540	1080	8	150	23-TR3-17-560500	39.7/36.3	23-TR3-11-560500	58.9/53.5
630-315	485	965	8	170	23-TR3-17-630315	43.7/25.9	23-TR3-11-630315	65.2/36.7
630-355	500	1005	8	170	23-TR3-17-630355	43.7/28.1	23-TR3-11-630355	65.2/40.3
630-400	525	1050	8	170	23-TR3-17-630400	43.7/30.7	23-TR3-11-630400	65.2/44.4
630-450	550	1100	8	170	23-TR3-17-630450	43.7/33.5	23-TR3-11-630450	65.2/49.0
630-500	575	1150	8	170	23-TR3-17-630500	43.7/36.3	23-TR3-11-630500	65.2/53.5
630-560	605	1210	8	170	23-TR3-17-630560	43.7/39.7	23-TR3-11-630560	65.2/58.9

手工製品(Fabricated)

PP-H(FRP COATED) REDUCED TEE

for butt welding
molded from PP-H

對接異徑三通 PP-H(披覆FRP)
DFP TR1



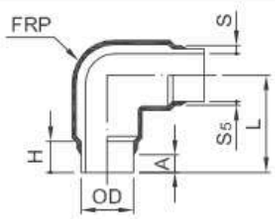
OD1/OD2 (mm)	H (mm)	L (mm)	S5 FRP (mm)	A (mm)	SDR17.6 ISO S8.3 PN6		SDR11 ISO S5 PN10	
					Code	S (mm)	Code	S (mm)
710-355	540	1085	8	180	23-TR3-17-710355	48.2/28.1	23-TR3-11-710355	72.5/40.3
710-400	565	1130	8	180	23-TR3-17-710400	48.2/30.7	23-TR3-11-710400	72.5/44.4
710-450	590	1180	8	180	23-TR3-17-710450	48.2/33.5	23-TR3-11-710450	72.5/49.0
710-500	615	1230	8	180	23-TR3-17-710500	48.2/36.3	23-TR3-11-710500	72.5/53.5
710-560	645	1290	8	180	23-TR3-17-710560	48.2/39.7	23-TR3-11-710560	72.5/58.9
710-630	680	1360	8	180	23-TR3-17-710630	48.2/43.7	23-TR3-11-710630	72.5/65.2
800-400	610	1220	8	210	23-TR3-17-800400	53.5/30.7	23-TR3-11-800400	80.7/44.4
800-450	635	1270	8	210	23-TR3-17-800450	53.5/33.5	23-TR3-11-800450	80.7/49.0
800-500	660	1320	8	210	23-TR3-17-800500	53.5/36.3	23-TR3-11-800500	80.7/53.5
800-560	690	1380	8	210	23-TR3-17-800560	53.5/39.7	23-TR3-11-800560	80.7/58.9
800-630	725	1450	8	210	23-TR3-17-800630	53.5/43.7	23-TR3-11-800630	80.7/65.2
800-710	765	1530	8	210	23-TR3-17-800710	53.5/48.2	23-TR3-11-800710	80.7/72.5
900-450	685	1370	12	230	23-TR3-17-900450	63.2/37.5	23-TR3-11-900450	93.8/53.0
900-500	710	1420	12	230	23-TR3-17-900500	63.2/40.3	23-TR3-11-900500	93.8/57.5
900-560	740	1480	12	230	23-TR3-17-900560	63.2/43.7	23-TR3-11-900560	93.8/62.9
900-630	775	1550	12	230	23-TR3-17-900630	63.2/47.7	23-TR3-11-900630	93.8/69.2
900-710	815	1630	12	230	23-TR3-17-900710	63.2/52.2	23-TR3-11-900710	93.8/76.5
900-800	860	1720	12	230	23-TR3-17-900800	63.2/57.5	23-TR3-11-900800	93.8/84.7
1000-500	760	1540	12	240	23-TR3-17-100500	68.8/40.3	23-TR3-11-100500	102.9/57.5
1000-560	790	1600	12	240	23-TR3-17-100560	68.8/43.7	23-TR3-11-100560	102.9/62.9
1000-630	825	1670	12	240	23-TR3-17-100630	68.8/47.7	23-TR3-11-100630	102.9/69.2
1000-710	865	1750	12	240	23-TR3-17-100710	68.8/52.2	23-TR3-11-100710	102.9/76.5
1000-800	910	1840	12	240	23-TR3-17-100800	68.8/57.5	23-TR3-11-100800	102.9/84.7
1000-900	960	1940	12	240	23-TR3-17-100900	68.8/63.2	23-TR3-11-100900	102.9/93.8
1200-560	890	1800	12	260	23-TR3-17-120560	80.1/43.7	23-TR3-11-120560	121.0/62.9
1200-630	925	1870	12	260	23-TR3-17-120630	80.1/47.7	23-TR3-11-120630	121.0/69.2
1200-710	965	1950	12	260	23-TR3-17-120710	80.1/52.2	23-TR3-11-120710	121.0/76.5
1200-800	1010	2040	12	260	23-TR3-17-120800	80.1/57.5	23-TR3-11-120800	121.0/84.7
1200-900	1060	2140	12	260	23-TR3-17-120900	80.1/63.2	23-TR3-11-120900	121.0/93.8
1200-1000	1120	2240	12	260	23-TR3-17-120100	80.1/68.8	23-TR3-11-120100	121.0/102.9

手工製品(Fabricated)

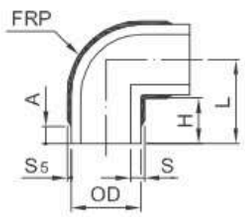
PP-H 90° BEND

for butt welding
molded from PP-H

對接90° 彎頭
DFP L91



(∅20~∅110 , 140 , 160 , 225 , 280)

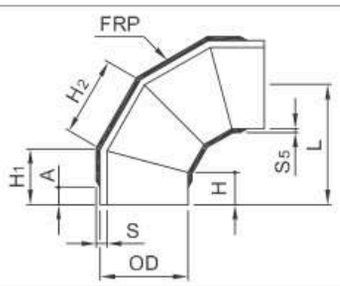


(∅125 , 180 , 200 , 250 , 315)

OD (mm)	H (mm)	L (mm)	S5 FRP (mm)	A (mm)	SDR17.6 ISO S8.3 PN6		SDR11 ISO S5 PN10		SDR7.4 ISO S3.2 PN16	
					Code	S (mm)	Code	S (mm)	Code	S (mm)
20	15.5	36.0	2	25	-	-	21-L91-11-0020	4.5	21-L91-07-0020	4.8
25	15.5	41.0	2	30	-	-	21-L91-11-0025	4.7	21-L91-07-0025	5.5
32	17.5	47.0	2	35	-	-	21-L91-11-0032	5.0	21-L91-07-0032	6.5
40	12.0	46.0	2	35	-	-	21-L91-11-0040	5.7	21-L91-07-0040	7.6
50	14.0	53.0	2	35	21-L91-17-0050	4.9	21-L91-11-0050	6.6	21-L91-07-0050	8.9
63	18.0	68.0	3	35	21-L91-17-0063	6.6	21-L91-11-0063	8.8	21-L91-07-0063	11.7
75	15.0	78.5	3	40	21-L91-17-0075	7.3	21-L91-11-0075	9.9	21-L91-07-0075	13.4
90	38.5	108.0	3	40	21-L91-17-0090	8.1	21-L91-11-0090	11.2	21-L91-07-0090	15.5
110	49.5	123.0	3	40	21-L91-17-0110	9.3	21-L91-11-0110	13.0	21-L91-07-0110	18.2
125	35	97.5	3	45	21-L91-17-0125	10.1	21-L91-11-0125	14.4	-	-
140	90.0	180.0	3	50	21-L91-17-0140	11.0	21-L91-11-0140	15.8	-	-
160	93.9	183.0	3	55	21-L91-17-0160	12.1	21-L91-11-0160	17.6	-	-
180	46	136.0	3	55	21-L91-17-0180	13.2	21-L91-11-0180	19.4	-	-
200	38	138.0	3	60	21-L91-17-0200	14.4	21-L91-11-0200	21.2	-	-
225	100.0	240.0	3	70	21-L91-17-0225	15.8	21-L91-11-0225	23.5	-	-
250	150.0	402.5	5	70	21-L91-17-0250	19.2	21-L91-11-0250	27.8	-	-
280	196.0	335.0	5	80	21-L91-17-0280	20.9	21-L91-11-0280	30.5	-	-
315	212.0	370.0	5	90	21-L91-17-0315	22.9	21-L91-11-0315	33.7	-	-

PP-H(FRP COATED) 90° BEND

(Fabricated)
for butt welding
molded from PP-H
手工90°彎頭 **PP-H(披覆FRP)**
DFP L94



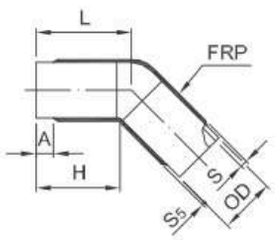
OD (mm)	H (mm)	H_1 (mm)	H_2 (mm)	L (mm)	S5 FRP (mm)	A (mm)	SDR17.6 ISO S8.3 PN6		SDR11 ISO S5 PN10	
							Code	S (mm)	Code	S (mm)
355	185	280	375	615	5	100	21-L94-17-0355	25.1	21-L94-11-0355	37.3
400	210	317	424	697	5	110	21-L94-17-0400	27.7	21-L94-11-0400	41.4
450	235	356	476	781	5	120	21-L94-17-0450	30.5	21-L94-11-0450	46.0
500	260	394	528	865	8	140	21-L94-17-0500	36.3	21-L94-11-0500	53.5
560	290	440	589	966	8	150	21-L94-17-0560	39.7	21-L94-11-0560	58.9
630	325	494	663	1084	8	170	21-L94-17-0630	43.7	21-L94-11-0630	65.2
710	365	555	745	1219	8	180	21-L94-17-0710	48.2	21-L94-11-0710	72.5
800	410	625	838	1370	8	210	21-L94-17-0800	53.5	21-L94-11-0800	80.7
900	460	701	942	1539	12	230	21-L94-17-0900	63.2	21-L94-11-0900	93.8
1000	520	788	1058	1731	12	240	21-L94-17-1000	68.8	21-L94-11-1000	102.9
1200	620	942	1263	2067	12	260	21-L94-17-1200	80.1	21-L94-11-1200	121.0

手工製品(Fabricated)

PP-H 45° ELBOW

for butt welding
molded from PP-H

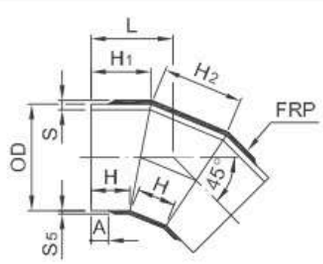
對接45°彎頭
DFP L45



OD (mm)	H (mm)	L (mm)	S5 FRP (mm)	A (mm)	SDR17.6 ISO S8.3 PN6		SDR11 ISO S5 PN10		SDR7.4 ISO S3.2 PN16	
					Code	S (mm)	Code	S (mm)	Code	S (mm)
20	28	32.0	2	25	-	-	23-L45-11-0020	4.5	23-L45-07-0020	4.8
25	29	34.0	2	30	-	-	23-L45-11-0025	4.7	23-L45-07-0025	5.5
32	30	36.0	2	35	-	-	23-L45-11-0032	5.0	23-L45-07-0032	6.5
40	31	39.0	2	35	-	-	23-L45-11-0040	5.7	23-L45-07-0040	7.6
50	32	42.0	2	35	23-L45-17-0050	4.9	23-L45-11-0050	6.6	23-L45-07-0050	8.9
63	34	47.0	3	35	23-L45-17-0063	6.6	23-L45-11-0063	8.8	23-L45-07-0063	11.7
75	34	49.0	3	40	23-L45-17-0075	7.3	23-L45-11-0075	9.9	23-L45-07-0075	13.4
90	36	55.0	3	40	23-L45-17-0090	8.1	23-L45-11-0090	11.2	23-L45-07-0090	15.5
110	45	68.0	3	40	23-L45-17-0110	9.3	23-L45-11-0110	13.0	23-L45-07-0110	18.2
125	50	81.0	3	45	23-L45-17-0125	10.1	23-L45-11-0125	14.4	23-L45-07-0125	-
140	55	91.5	3	50	23-L45-17-0140	11.0	23-L45-11-0140	15.8	23-L45-07-0140	-
160	60	94.0	3	55	23-L45-17-0160	12.1	23-L45-11-0160	17.6	23-L45-07-0160	-
180	65	110.0	3	55	23-L45-17-0180	13.2	23-L45-11-0180	19.4	23-L45-07-0180	-
200	70	120.0	3	60	23-L45-17-0200	14.4	23-L45-11-0200	21.2	23-L45-07-0200	-
225	80	127.0	3	70	23-L45-17-0225	15.8	23-L45-11-0225	23.5	23-L45-07-0225	-
250	90	150.0	5	70	23-L45-17-0250	19.2	23-L45-11-0250	27.8	23-L45-07-0250	-
280	100	170.0	5	80	23-L45-17-0280	20.9	23-L45-11-0280	30.5	23-L45-07-0280	-
315	110	184.0	5	90	23-L45-17-0315	22.9	23-L45-11-0315	33.7	23-L45-07-0315	-

PP-H(FRP COATED) 45° ELBOW

for butt welding
molded from PP-H
手工對接45° 彎頭 PP-H(披覆FRP)
DFP L47



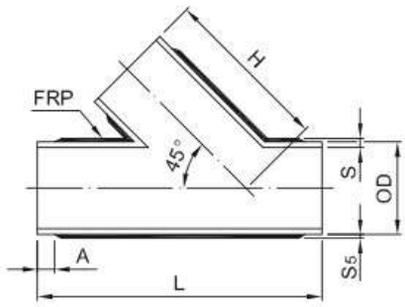
OD (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	S5 FRP (mm)	A (mm)	SDR17.6 ISO S8.3 PN6		SDR11 ISO S5 PN10	
							Code	S (mm)	Code	S (mm)
355	185	256	326	359	5	100	23-L47-17-0355	25.1	23-L47-11-0355	37.3
400	210	289	370	407	5	110	23-L47-17-0400	27.7	23-L47-11-0400	41.4
450	235	325	413	455	5	120	23-L47-17-0450	30.5	23-L47-11-0450	46.0
500	260	360	458	504	8	140	23-L47-17-0500	36.3	23-L47-11-0500	53.5
560	290	402	512	563	8	150	23-L47-17-0560	39.7	23-L47-11-0560	58.9
630	325	450	576	631	8	170	23-L47-17-0630	43.7	23-L47-11-0630	65.2
710	365	506	648	710	8	180	23-L47-17-0710	48.2	23-L47-11-0710	72.5
800	410	569	729	798	8	210	23-L47-17-0800	53.5	23-L47-11-0800	80.7
900	460	639	818	895	12	230	23-L47-17-0900	63.2	23-L47-11-0900	93.8
1000	520	719	918	1009	12	240	23-L47-17-1000	68.8	23-L47-11-1000	102.9
1200	620	858	1099	1204	12	260	23-L47-17-1200	80.1	23-L47-11-1200	121.0

手工製品(Fabricated)

PP-H(FRP COATED)
45° Y-TEE

for butt welding
molded from PP-H

對接45° Y型三通 **PP-H(披覆FRP)**
DFP TY1.TY2



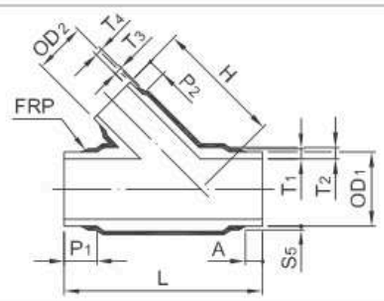
OD (mm)	H (mm)	L (mm)	B (mm)	B1 (mm)	S5 FRP (mm)	A (mm)	SDR17.6 ISO S8.3 PN6		SDR11 ISO S5 PN10	
							Code	S (mm)	Code	S (mm)
63	146	279	70	139	3	35	23-TY1-17-0063	6.6	23-TY1-11-0063	8.8
90	179	317	70	177	3	40	23-TY1-17-0090	8.1	23-TY1-11-0090	11.2
110	213	372	80	212	3	40	23-TY1-17-0110	9.3	23-TY1-11-0110	13.0
125	241	420	90	240	3	45	23-TY1-17-0125	10.1	23-TY1-11-0125	14.4
140	259	441	90	261	3	50	23-TY1-17-0140	11.0	23-TY1-11-0140	15.8
160	293	496	100	296	3	55	23-TY1-17-0160	12.1	23-TY1-11-0160	17.6
180	317	526	100	326	3	55	23-TY1-17-0180	13.2	23-TY1-11-0180	19.4
200	351	582	110	362	3	60	23-TY1-17-0200	14.4	23-TY1-11-0200	21.2
225	392	643	120	403	3	70	23-TY1-17-0225	15.8	23-TY1-11-0225	23.5
250	437	719	135	449	5	70	23-TY1-17-0250	19.2	23-TY1-11-0250	27.8
280	488	802	150	502	5	80	23-TY1-17-0280	20.9	23-TY1-11-0280	30.5
315	550	905	170	565	5	90	23-TY1-17-0315	22.9	23-TY1-11-0315	33.7
355	614	1003	185	633	5	100	23-TY2-17-0355	25.1	23-TY2-11-0355	37.3
400	693	1134	210	714	5	110	23-TY2-17-0400	27.7	23-TY2-11-0400	41.4
450	778	1271	235	801	5	120	23-TY2-17-0450	30.5	23-TY2-11-0450	46.0
500	864	1411	260	891	8	140	23-TY2-17-0500	36.3	23-TY2-11-0500	53.5
560	966	1577	290	997	8	150	23-TY2-17-0560	39.7	23-TY2-11-0560	58.9
630	1086	1771	325	1121	8	170	23-TY2-17-0630	43.7	23-TY2-11-0630	65.2
710	1222	1993	365	1263	8	180	23-TY2-17-0710	48.2	23-TY2-11-0710	72.5
800	1376	2240	410	1420	8	210	23-TY2-17-0800	53.5	23-TY2-11-0800	80.7
900	1547	2518	460	1598	12	230	23-TY2-17-0900	63.2	23-TY2-11-0900	93.8
1000	1727	2821	520	1781	12	240	23-TY2-17-1000	68.8	23-TY2-11-1000	102.9
1200	2069	3375	620	2135	12	260	23-TY2-17-1200	80.1	23-TY2-11-1200	121.0

手工製品(Fabricated)

PP-H(FRP COATED)Y-TEE

for butt welding
molded from PP-H

對接異徑Y型三通 **PP-H(披覆FRP)**
DFP TY1



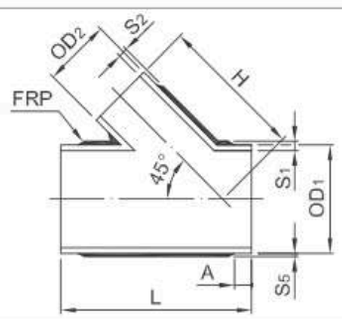
OD1 (mm)	OD2 (mm)	H (mm)	L (mm)	L1 (mm)	L2 (mm)	S5 FRP (mm)	A (mm)	SDR17.6 ISO S8.3 PN6					Code
								T1 (mm)	T2 (mm)	T3 (mm)	T4 (mm)	Weight (Kg/Pc.)	
90	63	153.53	242	53	31	3	40	8.1	11.1	6.6	7.8	0.593	28-TY1-090063-17.6
110	63	172.50	273	65	31	3	40	9.3	13.1	6.6	7.8	0.907	28-TY1-110063-17.6
160	110	265.05	374	84	65	3	55	12.1	15.8	9.3	13.0	2.520	28-TY1-160110-17.6

OD1 (mm)	OD2 (mm)	H (mm)	L (mm)	L1 (mm)	L2 (mm)	S5 FRP (mm)	A (mm)	SDR11 ISO S5 PN10					Code
								T1 (mm)	T2 (mm)	T3 (mm)	T4 (mm)	Weight (Kg/Pc.)	
90	63	153.53	242	53	31	3	40	11.2	14.2	9.0	10.0	0.786	88-TY1-090063-11
110	63	172.50	273	65	31	3	40	13.0	16.8	9.0	10.0	1.200	88-TY1-110063-11
110	90	207.35	316.25	65	53	3	40	13.0	16.8	11.5	14.2	1.656	88-TY1-110090-11
160	90	248.04	356.50	84	53	3	55	17.6	21.3	11.3	14.2	2.588	88-TY1-160090-11
160	110	265.05	374	84	65	3	55	17.6	21.3	13.4	16.7	2.522	88-TY1-160110-11

PP-H(FRP COATED)45° Y-TEE

for butt welding
molded form PP-H

手工45° 異徑Y型三通 **PP-H(披覆FRP)**
DFP TY6



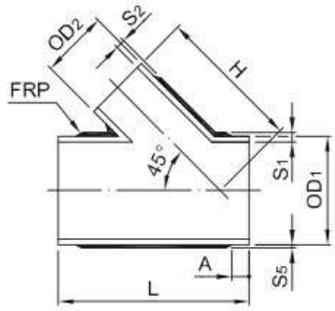
OD1/OD2 (mm)	H (mm)	L (mm)	B (mm)	B1 (mm)	S5 FRP (mm)	A (mm)	SDR17.6 ISO S8.3 PN6		SDR11 ISO S5 PN10		SDR7.4 ISO S3.2 PN16	
							Code	S1/S2 (mm)	Code	S1/S2 (mm)	Code	S1/S2 (mm)
110-32	174	262	80	102	3	40	28-TY6-110032-17.6	9.3/4.9	88-TY6-110032-17	9.6/5.0	28-TY6-110032-11	18.2/7.5
110-40	178	273	80	113	3	40	28-TY6-110040-17.6	9.3/5.3	88-TY6-110040-17	9.6/5.4	28-TY6-110040-11	18.2/8.6
110-50	183	287	80	127	3	40	28-TY6-110050-17.6	9.3/5.9	88-TY6-110050-17	9.6/6.0	28-TY6-110050-11	18.2/9.9
110-75	195	323	80	163	3	40	28-TY6-110075-17.6	9.3/7.3	88-TY6-110075-17	9.6/7.5	28-TY6-110075-11	18.2/13.4
125-40	198	300	90	120	3	45	28-TY6-125040-17.6	10.1/5.3	88-TY6-125040-17	10.4/5.4	28-TY6-125040-11	20.2/8.6
125-50	203	314	90	134	3	45	28-TY6-125050-17.6	10.1/5.9	88-TY6-125050-17	10.4/6.0	28-TY6-125050-11	20.2/9.9
125-63	220	333	90	153	3	45	28-TY6-125063-17.6	10.1/6.6	88-TY6-125063-17	10.4/6.8	28-TY6-125063-11	20.2/11.7
125-75	216	350	90	170	3	45	28-TY6-125075-17.6	10.1/7.3	88-TY6-125075-17	10.4/7.5	28-TY6-125075-11	20.2/13.4
125-90	223	371	90	191	3	45	28-TY6-125090-17.6	10.1/8.1	88-TY6-125090-17	10.4/8.4	28-TY6-125090-11	20.2/15.5
125-110	233	399	90	219	3	45	28-TY6-125110-17.6	10.1/9.3	88-TY6-125110-17	10.4/9.6	28-TY6-125110-11	20.2/18.2
140-50	214	314	90	134	3	50	28-TY6-140050-17.6	11.0/5.9	88-TY6-140050-17	11.3/6.0	28-TY6-140050-11	22.3/9.9
140-63	220	333	90	153	3	50	28-TY6-140063-17.6	11.0/6.6	88-TY6-140063-17	11.3/6.8	28-TY6-140063-11	22.3/11.7
140-75	226	350	90	170	3	50	28-TY6-140075-17.6	11.0/7.3	88-TY6-140075-17	11.3/7.5	28-TY6-140075-11	22.3/13.4
140-90	234	371	90	191	3	50	28-TY6-140090-17.6	11.0/8.1	88-TY6-140090-17	11.3/8.4	28-TY6-140090-11	22.3/15.5
140-110	244	399	90	219	3	50	28-TY6-140110-17.6	11.0/9.3	88-TY6-140110-17	11.3/9.6	28-TY6-140110-11	22.3/18.2
140-125	251	420	90	240	3	50	28-TY6-140125-17.6	11.0/10.1	88-TY6-140125-17	11.3/10.4	28-TY6-140125-11	22.3/20.2

手工製品(Fabricated)

PP-H(FRP COATED) 45° Y-TEE

reinforced, with reduced branch
for butt welding
molded from PP-H

手工45° 異徑Y型三通 **PP-H(披覆FRP)**
DFP TY6

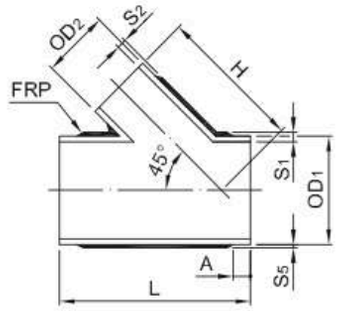


OD1/OD2 (mm)	H (mm)	L (mm)	B (mm)	B1 (mm)	S5 FRP (mm)	A (mm)	SDR17.6 ISO S8.3 PN6		SDR11 ISO S5 PN10	
							Code	S1/S2 (mm)	Code	S1/S2 (mm)
160-63	245	360	100	160	3	55	28-TY6-160063-17.6	12.1/6.6	28-TY6-160063-11	17.6/8.8
160-75	251	377	100	177	3	55	28-TY6-160075-17.6	12.1/7.3	28-TY6-160075-11	17.6/9.9
160-125	276	447	100	247	3	55	28-TY6-160125-17.6	12.1/10.1	28-TY6-160125-11	17.6/14.4
160-140	283	469	100	269	3	55	28-TY6-160140-17.6	12.1/11.0	28-TY6-160140-11	17.6/15.8
180-75	265	377	100	177	3	55	28-TY6-180075-17.6	13.2/7.3	28-TY6-180075-11	19.4/9.9
180-90	272	398	100	198	3	55	28-TY6-180090-17.6	13.2/8.1	28-TY6-180090-11	19.4/11.2
180-110	300	426	100	226	3	55	28-TY6-180110-17.6	13.2/9.3	28-TY6-180110-11	19.4/13.0
180-125	290	447	100	247	3	55	28-TY6-180125-17.6	13.2/10.1	28-TY6-180125-11	19.4/14.4
180-140	297	469	100	269	3	55	28-TY6-180140-17.6	13.2/11.0	28-TY6-180140-11	19.4/15.8
180-160	307	497	100	297	3	55	28-TY6-180160-17.6	13.2/12.1	28-TY6-180160-11	19.4/17.6
200-90	296	425	110	205	3	60	28-TY6-200090-17.6	14.4/8.1	28-TY6-200090-11	21.2/11.2
200-110	306	453	110	233	3	60	28-TY6-200110-17.6	14.4/9.3	28-TY6-200110-11	21.2/13.0
200-125	338	475	110	255	3	60	28-TY6-200125-17.6	14.4/10.1	28-TY6-200125-11	21.2/14.4
200-140	321	496	110	276	3	60	28-TY6-200140-17.6	14.4/11.0	28-TY6-200140-11	21.2/15.8
200-160	331	524	110	304	3	60	28-TY6-200160-17.6	14.4/12.1	28-TY6-200160-11	21.2/17.6
200-180	341	552	110	332	3	60	28-TY6-200180-17.6	14.4/13.2	28-TY6-200180-11	21.2/19.4
225-110	334	482	120	242	3	70	28-TY6-225110-17.6	15.8/9.3	28-TY6-225110-11	23.5/13.0
225-125	342	502	120	262	3	70	28-TY6-225125-17.6	15.8/10.1	28-TY6-225125-11	23.5/14.4
225-140	349	523	120	283	3	70	28-TY6-225140-17.6	15.8/11.0	28-TY6-225140-11	23.5/15.8
225-160	359	551	120	311	3	70	28-TY6-225160-17.6	15.8/12.1	28-TY6-225160-11	23.5/17.6
225-180	369	579	120	339	3	70	28-TY6-225180-17.6	15.8/13.2	28-TY6-225180-11	23.5/19.4
225-200	379	608	120	368	3	70	28-TY6-225200-17.6	15.8/14.4	28-TY6-225200-11	23.5/21.2
250-125	374	542	135	272	5	70	28-TY6-250125-17.6	19.2/12.1	28-TY6-250125-11	27.8/16.4
250-140	382	563	135	293	5	70	28-TY6-250140-17.6	19.2/13.0	28-TY6-250140-11	27.8/17.8
250-160	392	592	135	322	5	70	28-TY6-250160-17.6	19.2/14.1	28-TY6-250160-11	27.8/19.6
250-180	402	620	135	350	5	70	28-TY6-250180-17.6	19.2/15.2	28-TY6-250180-11	27.8/21.4
250-200	412	648	135	378	5	70	28-TY6-250200-17.6	19.2/16.4	28-TY6-250200-11	27.8/23.2
250-225	424	684	135	414	5	70	28-TY6-250225-17.6	19.2/17.8	28-TY6-250225-11	27.8/25.5
280-140	418	632	150	304	5	80	28-TY6-280140-17.6	20.9/13.0	28-TY6-280140-11	30.5/17.8
280-160	428	632	150	332	5	80	28-TY6-280160-17.6	20.9/14.1	28-TY6-280160-11	30.5/19.6
280-180	439	661	150	361	5	80	28-TY6-280180-17.6	20.9/15.2	28-TY6-280180-11	30.5/21.4
280-200	448	689	150	389	5	80	28-TY6-280200-17.6	20.9/16.4	28-TY6-280200-11	30.5/23.2
280-225	460	724	150	424	5	80	28-TY6-280225-17.6	20.9/17.8	28-TY6-280225-11	30.5/25.5
280-250	473	760	150	460	5	80	28-TY6-280250-17.6	20.9/19.2	28-TY6-280250-11	30.5/27.8

PP-H(FRP COATED) 45° Y-TEE

reinforced, with reduced branch
for butt welding
molded from PP-H

手工對接異徑45° Y型三通 **PP-H(披覆FRP)**
DFP TY7

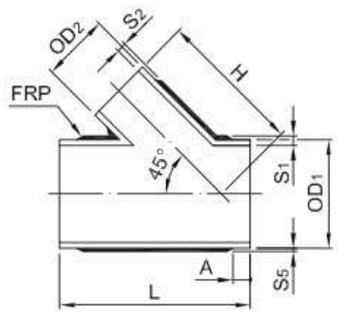


OD1/OD2 (mm)	H (mm)	L (mm)	I (mm)	S5 FRP (mm)	A (mm)	SDR17.6 ISO S8.3 PN6		SDR11 S5 PN10	
						Code	S1/S2 (mm)	Code	S1/S2 (mm)
355-180	484	763	495	5	100	23-TY2-17-355180	25.1/15.2	23-TY2-11-355180	37.3/21.4
355-200	484	763	495	5	100	23-TY2-17-355200	25.1/16.4	23-TY2-11-355200	37.3/23.2
355-225	484	763	495	5	100	23-TY2-17-355225	25.1/17.8	23-TY2-11-355225	37.3/25.5
355-250	569	919	650	5	100	23-TY2-17-355250	25.1/19.2	23-TY2-11-355250	37.3/27.8
355-280	569	919	650	5	100	23-TY2-17-355280	25.1/20.9	23-TY2-11-355280	37.3/30.5
355-315	569	919	650	5	100	23-TY2-17-355315	25.1/22.9	23-TY2-11-355315	37.3/33.7
400-200	538	865	556	5	110	23-TY2-17-400200	27.7/16.4	23-TY2-11-400200	41.4/23.2
400-225	538	865	556	5	110	23-TY2-17-400225	27.7/17.8	23-TY2-11-400225	41.4/25.5
400-250	538	865	556	5	110	23-TY2-17-400250	27.7/19.2	23-TY2-11-400250	41.4/27.8
400-280	640	1049	740	5	110	23-TY2-17-400280	27.7/20.9	23-TY2-11-400280	41.4/30.5
400-315	640	1049	740	5	110	23-TY2-17-400315	27.7/22.9	23-TY2-11-400315	41.4/33.7
400-355	640	1049	740	5	110	23-TY2-17-400355	27.7/25.1	23-TY2-11-400355	41.4/37.3
450-225	608	1002	640	5	120	23-TY2-17-450225	30.5/17.8	23-TY2-11-450225	46.0/25.5
450-250	608	1002	640	5	120	23-TY2-17-450250	30.5/19.2	23-TY2-11-450250	46.0/27.8
450-280	608	1002	640	5	120	23-TY2-17-450280	30.5/20.9	23-TY2-11-450280	46.0/30.5
450-315	728	1214	852	5	120	23-TY2-17-450315	30.522.9	23-TY2-11-450315	46.0/33.7
450-355	728	1214	8524	5	120	23-TY2-17-450355	30.5/25.1	23-TY2-11-450355	46.0/37.3
450-400	728	1214	852	5	120	23-TY2-17-450400	30.5/27.7	23-TY2-11-450400	46.0/41.4
500-250	671	1119	714	8	140	23-TY2-17-500250	36.3/22.2	23-TY2-11-500250	53.5/30.8
500-280	671	1119	714	8	140	23-TY2-17-500280	36.3/23.9	23-TY2-11-500280	53.5/33.5
500-315	671	1119	714	8	140	23-TY2-17-500315	36.3/25.9	23-TY2-11-500315	53.5/36.7
500-355	829	1367	963	8	140	23-TY2-17-500355	36.3/28.1	23-TY2-11-500355	53.5/40.3
500-400	829	1367	963	8	140	23-TY2-17-500400	36.3/30.7	23-TY2-11-500400	53.5/44.4
500-450	829	1367	963	8	140	23-TY2-17-500450	36.3/33.5	23-TY2-11-500450	53.5/49.0
560-280	754	1226	786	8	150	23-TY2-17-560280	39.7/23.9	23-TY2-11-560280	58.9/33.5
560-315	754	1226	786	8	150	23-TY2-17-560315	39.7/25.9	23-TY2-11-560315	58.9/36.7
560-355	754	1226	786	8	150	23-TY2-17-560355	39.7/28.1	23-TY2-11-560355	58.9/40.3
560-400	924	1498	1058	8	150	23-TY2-17-560400	39.7/30.7	23-TY2-11-560400	58.9/46.4
560-450	924	1498	1058	8	150	23-TY2-17-560450	39.7/33.5	23-TY2-11-560450	58.9/49.0
560-500	924	1498	1058	8	150	23-TY2-17-560500	39.7/36.3	23-TY2-11-560500	58.9/53.5
630-315	851	1407	900	8	170	23-TY2-17-630315	43.7/25.9	23-TY2-11-630315	65.2/36.7
630-355	851	1407	900	8	170	23-TY2-17-630355	43.7/28.1	23-TY2-11-630355	65.2/40.3
630-400	851	1407	900	8	170	23-TY2-17-630400	43.7/30.7	23-TY2-11-630400	65.2/46.4
630-450	1020	1694	1187	8	170	23-TY2-17-630450	43.7/33.5	23-TY2-11-630450	65.2/49.0
630-500	1020	1694	1187	8	170	23-TY2-17-630500	43.7/36.3	23-TY2-11-630500	65.2/53.5
630-560	1020	1694	1187	8	170	23-TY2-17-630560	43.7/39.7	23-TY2-11-630560	65.2/58.9

PP-H(FRP COATED) 45° Y-TEE

reinforced, with reduced branch
(Fabricated)
for butt welding
molded from PP-H

手工對接異徑45° Y型三通 PP-H(披覆FRP)
DFP TY7



OD1/OD2 (mm)	H (mm)	L (mm)	I (mm)	S5 FRP (mm)	A (mm)	SDR17.6 ISO S8.3 PN6		SDR11 ISO S5 PN10	
						Code	S1/S2 (mm)	Code	S1/S2 (mm)
710-355	972	1605	1028	8	180	23-TY2-17-710355	48.2/28.1	23-TY2-11-710355	72.5/40.3
710-400	972	1605	1028	8	180	23-TY2-17-710400	48.2/30.7	23-TY2-11-710400	72.5/44.4
710-450	972	1605	1028	8	180	23-TY2-17-710450	48.2/33.5	23-TY2-11-710450	72.5/49.0
710-500	1162	1932	1355	8	180	23-TY2-17-710500	48.2/36.3	23-TY2-11-710500	72.5/53.5
710-560	1162	1932	1355	8	180	23-TY2-17-710560	48.2/39.7	23-TY2-11-710560	72.5/58.9
710-630	1162	1932	1355	8	180	23-TY2-17-710305	48.2/43.7	23-TY2-11-710305	72.5/65.2
800-400	1090	1797	1147	8	210	23-TY2-17-800400	53.5/30.7	23-TY2-11-800400	80.7/44.4
800-450	1090	1797	1147	8	210	23-TY2-17-800450	53.5/33.5	23-TY2-11-800450	80.7/49.0
800-500	1090	1797	1147	8	210	23-TY2-17-800500	53.5/36.3	23-TY2-11-800500	80.7/53.5
800-560	1367	2211	1561	8	210	23-TY2-17-800560	53.5/39.7	23-TY2-11-800560	80.7/58.9
800-630	1367	2211	1561	8	210	23-TY2-17-800630	53.5/43.7	23-TY2-11-800630	80.7/65.2
800-710	1367	2211	1561	8	210	23-TY2-17-800710	53.5/48.2	23-TY2-11-800710	80.7/72.5
900-450	1212	1995	1270	12	230	23-TY2-17-900450	63.2/37.5	23-TY2-11-900450	93.8/53.0
900-500	1212	1995	1270	12	230	23-TY2-17-900500	63.2/40.3	23-TY2-11-900500	93.8/57.5
900-560	1212	1995	1270	12	230	23-TY2-17-900560	63.2/43.7	23-TY2-11-900560	93.8/62.9
900-630	1485	2437	1712	12	230	23-TY2-17-900630	63.2/47.7	23-TY2-11-900630	93.8/69.2
900-710	1485	2437	1712	12	230	23-TY2-17-900710	63.2/52.2	23-TY2-11-900710	93.8/76.5
900-800	1485	2437	1712	12	230	23-TY2-17-900800	63.2/57.5	23-TY2-11-900800	93.8/84.7
1000-500	1367	2227	1428	12	240	23-TY2-17-100500	68.8/40.3	23-TY2-11-100500	102.9/57.5
1000-560	1367	2227	1428	12	240	23-TY2-17-100560	68.8/43.7	23-TY2-11-100560	102.9/62.9
1000-630	1367	2227	1428	12	240	23-TY2-17-100630	68.8/47.7	23-TY2-11-100630	102.9/69.2
1000-710	1653	2711	1911	12	240	23-TY2-17-100710	68.8/52.2	23-TY2-11-100710	102.9/76.5
1000-800	1653	2711	1911	12	240	23-TY2-17-100800	68.8/57.5	23-TY2-11-100800	102.9/84.7
1000-900	1653	2711	1911	12	240	23-TY2-17-100900	68.8/63.2	23-TY2-11-100900	102.9/93.8
1200-560	1596	2475	1576	12	260	23-TY2-17-120560	80.1/43.7	23-TY2-11-120560	121.0/62.9
1200-630	1596	2475	1576	12	260	23-TY2-17-120630	80.1/47.7	23-TY2-11-120630	121.0/69.2
1200-710	1596	2475	1576	12	260	23-TY2-17-120710	80.1/52.2	23-TY2-11-120710	121.0/76.5
1200-800	1893	2983	2083	12	260	23-TY2-17-120800	80.1/57.5	23-TY2-11-120800	121.0/84.7
1200-900	1893	2983	2083	12	260	23-TY2-17-120900	80.1/63.2	23-TY2-11-120900	121.0/93.8
1200-1000	1893	2983	2083	12	260	23-TY2-17-120100	80.1/78.8	23-TY2-11-120100	121.0/102.9

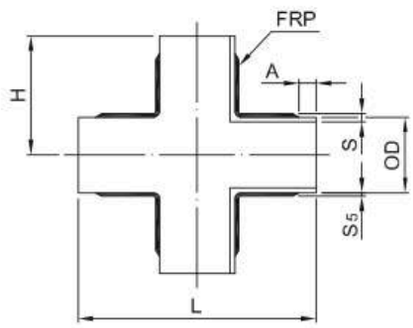
PP-H(FRP COATED) CROSS

(Fabricated)

for butt welding
molded from PP-H

手工對接四通 **PP-H(披覆FRP)**

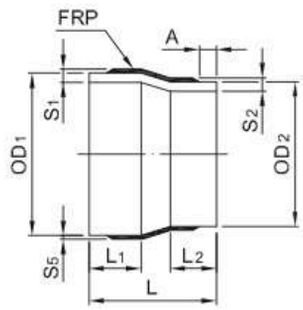
DFP TZ1



OD (mm)	H (mm)	L (mm)	B (mm)	S5 FRP (mm)	A (mm)	SDR17.6 ISO S8.3 PN6		SDR11 ISO S5 PN10	
						Code	S (mm)	Code	S (mm)
63	101.5	203	70	3	35	23-TZ1-27-0063	6.6	23-TZ1-17-0063	8.8
90	115.0	230	70	3	40	23-TZ1-27-0090	8.1	23-TZ1-17-0090	11.2
110	135.0	270	80	3	40	23-TZ1-27-0110	9.3	23-TZ1-17-0110	13.0
125	152.5	305	90	3	45	23-TZ1-27-0125	10.1	23-TZ1-17-0125	14.4
140	160.0	320	90	3	50	23-TZ1-27-0140	11.0	23-TZ1-17-0140	15.8
160	180.0	360	100	3	55	23-TZ1-27-0160	12.1	23-TZ1-17-0160	17.6
180	190.0	380	100	3	55	23-TZ1-27-0180	13.2	23-TZ1-17-0180	19.4
200	210.0	420	110	3	60	23-TZ1-27-0200	14.4	23-TZ1-17-0200	21.2
225	232.5	465	120	3	70	23-TZ1-27-0225	15.8	23-TZ1-17-0225	23.5
250	260.0	520	135	5	70	23-TZ1-27-0250	19.2	23-TZ1-17-0250	27.8
280	290.0	580	150	5	80	23-TZ1-27-0280	20.9	23-TZ1-17-0280	30.5
315	327.5	655	170	5	90	23-TZ1-27-0315	22.9	23-TZ1-17-0315	33.7
355	362.5	725	185	5	100	23-TZ1-27-0355	25.1	23-TZ1-17-0355	37.3
400	410.0	820	210	5	110	23-TZ1-27-0400	27.7	23-TZ1-17-0400	41.4
450	460.0	920	235	5	120	23-TZ1-27-0450	30.5	23-TZ1-17-0450	46.0
500	510.0	1020	260	8	140	23-TZ1-27-0500	36.3	23-TZ1-17-0500	53.5
560	570.0	1140	290	8	150	23-TZ1-27-0560	39.7	23-TZ1-17-0560	58.9
630	640.0	1280	325	8	170	23-TZ1-27-0630	43.7	23-TZ1-17-0630	65.2
710	720.0	1440	365	8	180	23-TZ1-27-0710	48.2	23-TZ1-17-0710	72.5
800	810.0	1620	410	8	210	23-TZ1-27-0800	53.5	23-TZ1-17-0800	80.7
900	910.0	1820	460	12	230	23-TZ1-27-0900	63.2	23-TZ1-17-0900	93.8
1000	1020.0	2040	520	12	240	23-TZ1-27-1000	68.8	23-TZ1-17-1000	102.9
1200	1220.0	2440	620	12	260	23-TZ1-27-1200	80.1	23-TZ1-17-1200	121.0

PP-H(FRP COATED) REDUCER

concentric,elongated
for butt welding
molded from PP-H
對接大小頭 **PP-H(披覆FRP)**
DFP RC1

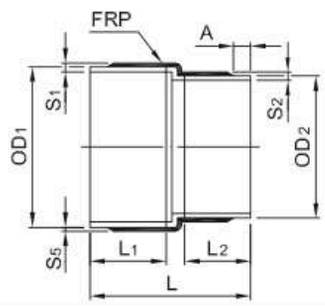


OD1/OD2 (mm)	L (mm)	L1 (mm)	L2 (mm)	S5 FRP (mm)	A (mm)	SDR17.6 ISO S8.3 PN6		SDR11 ISO S5 PN10	
						Code	S1/S2 (mm)	Code	S1/S2 (mm)
25-20	50	20	20	2	25	-	-	23-RC1-11-025020	4.7/4.5
32-20	50	20	20	2	25	-	-	23-RC1-11-032020	5.0/4.5
32-25	50	20	20	2	30	-	-	23-RC1-11-032025	5.0/4.7
40-20	55	20	20	2	25	-	-	23-RC1-11-040020	5.7/4.5
40-25	55	20	20	2	30	-	-	23-RC1-11-040025	5.7/4.7
40-32	55	20	20	2	35	-	-	23-RC1-11-040032	5.7/5.0
50-20	60	24	20	2	25	-	-	23-RC1-11-050020	6.6/4.5
50-25	60	24	20	2	30	-	-	23-RC1-11-050025	6.6/4.7
50-32	60	24	20	2	35	-	-	23-RC1-11-050032	6.6/5.0
50-40	60	24	20	2	35	-	-	23-RC1-11-050040	6.6/5.7
63-25	65	25	20	2	30	-	-	23-RC1-11-063025	7.8/4.7
63-32	65	25	22	2	35	-	-	23-RC1-11-063032	7.8/5.0
63-40	65	25	22	2	35	-	-	23-RC1-11-063040	7.8/5.7
63-50	65	25	22	2	35	23-RC1-17-063050	5.6/4.9	23-RC1-11-063050	7.8/6.6
75-40	68	25	24	3	35	23-RC1-17-075040	7.3/5.3	23-RC1-11-075040	9.9/6.7
75-50	68	25	24	3	35	23-RC1-17-075050	7.3/5.9	23-RC1-11-075050	9.9/7.6
75-63	68	25	24	3	35	23-RC1-17-075063	7.3/6.6	23-RC1-11-075063	9.9/8.8
90-50	75	30	26	3	35	23-RC1-17-090050	8.1/5.9	23-RC1-11-090050	11.2/7.6
90-63	75	30	26	3	35	23-RC1-17-090063	8.1/6.6	23-RC1-11-090063	11.2/8.8
90-75	75	30	26	3	40	23-RC1-17-090075	8.1/7.3	23-RC1-11-090075	11.2/9.9
110-63	90	35	30	3	35	23-RC1-17-110063	6.3/6.6	23-RC1-11-110063	13.0/11.8
110-75	90	35	30	3	40	23-RC1-17-110075	6.3/7.3	23-RC1-11-110075	13.0/12.9
110-90	90	35	30	3	40	23-RC1-17-110090	6.3/8.1	23-RC1-11-110090	13.0/14.2
125-110	100	40	35	3	40	23-RC1-17-120110	10.1/9.3	23-RC1-11-120110	14.4/13.0
140-125	110	45	40	3	45	23-RC1-17-140125	11.0/10.1	23-RC1-11-140125	15.8/14.4
160-110	130	60	40	3	40	23-RC1-17-160110	12.1/9.3	23-RC1-11-160110	17.6/13.0
160-140	130	60	40	3	50	23-RC1-17-160140	12.1/11.0	23-RC1-11-160140	17.6/15.8
180-160	130	60	40	3	55	23-RC1-17-180160	13.2/12.1	23-RC1-11-180160	19.4/17.6
200-160	140	60	40	3	55	23-RC1-17-200160	14.4/12.1	23-RC1-11-200160	21.2/17.6
225-160	150	60	40	3	55	23-RC1-17-225160	15.8/12.1	23-RC1-11-225160	23.5/17.6
225-200	150	60	50	3	60	23-RC1-17-225200	15.8/14.4	23-RC1-11-225200	23.5/21.2
250-225	170	70	60	5	70	23-RC1-17-250220	19.2/17.8	23-RC1-11-250220	27.8/25.5
280-250	180	80	60	5	70	23-RC1-17-280250	20.9/19.2	23-RC1-11-280250	30.5/27.8
315-280	220	90	80	5	80	23-RC1-17-315280	22.9/20.9	23-RC1-11-315280	33.7/30.5

PP-H(FRP COATED) REDUCER

concentric,elongated
for butt welding
molded from PP-H

手工對接大小頭 **PP-H(披覆FRP)**
DFP RC1



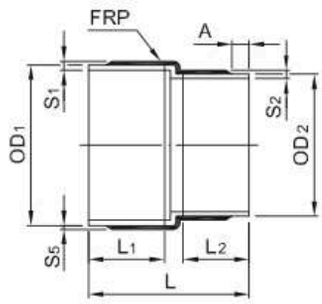
OD1/OD2 (mm)	L (mm)	L1 (mm)	L2 (mm)	S5 FRP (mm)	A (mm)	SDR17.6 ISO S8.3 PN6		SDR11 ISO S5 PN10	
						Code	S1/S2 (mm)	Code	S1/S2 (mm)
355-180	318	180	110	5	55	23-RC1-17-355180	25.1/15.2	23-RC1-11-355180	37.3/21.4
355-200	328	180	120	5	60	23-RC1-17-355200	25.1/16.4	23-RC1-11-355200	37.3/23.2
355-225	328	180	120	5	70	23-RC1-17-355225	25.1/17.8	23-RC1-11-355225	37.3/25.5
355-250	338	180	130	5	80	23-RC1-17-355250	25.1/19.2	23-RC1-11-355250	37.3/27.8
355-280	358	180	150	5	80	23-RC1-17-355280	25.1/20.9	23-RC1-11-355280	37.3/30.5
355-315	368	180	160	5	90	23-RC1-17-355315	25.1/22.9	23-RC1-11-355315	37.3/33.7
400-200	358	210	120	5	60	23-RC1-17-400200	27.7/16.4	23-RC1-11-400200	41.4/23.2
400-225	358	210	120	5	70	23-RC1-17-400225	27.7/17.8	23-RC1-11-400225	41.4/25.5
400-250	368	210	130	5	70	23-RC1-17-400250	27.7/19.2	23-RC1-11-400250	41.4/27.8
400-280	388	210	150	5	80	23-RC1-17-400280	27.7/20.9	23-RC1-11-400280	41.4/30.5
400-315	398	210	160	5	90	23-RC1-17-400315	27.7/22.9	23-RC1-11-400315	41.4/33.7
400-355	418	210	180	5	100	23-RC1-17-400355	27.7/25.1	23-RC1-11-400355	41.4/37.3
450-225	398	250	120	5	70	23-RC1-17-450225	30.5/17.8	23-RC1-11-450225	46.0/25.5
450-250	408	250	130	5	70	23-RC1-17-450250	30.5/19.2	23-RC1-11-450250	46.0/27.8
450-280	428	250	150	5	80	23-RC1-17-450280	30.5/20.9	23-RC1-11-450280	46.0/30.5
450-315	438	250	160	5	90	23-RC1-17-450315	30.5/22.9	23-RC1-11-450315	46.0/33.7
450-355	458	250	180	5	100	23-RC1-17-450355	30.5/25.1	23-RC1-11-450355	46.0/37.3
450-400	488	250	210	5	110	23-RC1-17-450400	30.5/27.7	23-RC1-11-450400	46.0/41.4
500-250	438	280	130	8	70	23-RC1-17-500250	36.3/22.2	23-RC1-11-500250	53.5/30.8
500-280	458	280	150	8	80	23-RC1-17-500280	36.3/23.9	23-RC1-11-500280	53.5/33.5
500-315	468	280	160	8	90	23-RC1-17-500315	36.3/25.9	23-RC1-11-500315	53.5/36.7
500-355	488	280	180	8	100	23-RC1-17-500355	36.3/28.1	23-RC1-11-500355	53.5/40.3
500-400	518	280	210	8	110	23-RC1-17-500400	36.3/30.7	23-RC1-11-500400	53.5/44.4
500-450	558	280	250	8	120	23-RC1-17-500450	36.3/32.5	23-RC1-11-500450	53.5/49.0
560-280	478	300	150	8	80	23-RC1-17-560280	39.7/23.9	23-RC1-11-560280	58.9/33.5
560-315	488	300	160	8	90	23-RC1-17-560315	39.7/25.9	23-RC1-11-560315	58.9/36.7
560-355	508	300	180	8	100	23-RC1-17-560355	39.7/28.1	23-RC1-11-560355	58.9/40.3
560-400	538	300	210	8	110	23-RC1-17-560400	39.7/30.7	23-RC1-11-560400	58.9/44.4
560-450	578	300	250	8	120	23-RC1-17-560450	39.7/33.5	23-RC1-11-560450	58.9/49.0
560-500	608	300	280	8	140	23-RC1-17-560500	39.7/36.3	23-RC1-11-560500	58.9/53.5
630-315	538	350	160	8	90	23-RC1-17-630315	43.7/25.9	23-RC1-11-630315	65.2/36.7
630-355	558	350	180	8	100	23-RC1-17-630355	43.7/28.1	23-RC1-11-630355	65.2/40.3
630-400	588	350	210	8	110	23-RC1-17-630400	43.7/30.7	23-RC1-11-630400	65.2/44.4
630-450	628	350	250	8	120	23-RC1-17-630450	43.7/33.5	23-RC1-11-630450	65.2/49.0
630-500	658	350	280	8	140	23-RC1-17-630500	43.7/36.3	23-RC1-11-630500	65.2/53.5
630-560	678	350	300	8	150	23-RC1-17-630560	43.7/39.7	23-RC1-11-630560	65.2/58.9

手工製品(Fabricated)

PP-H/FRP(FRP COATED) REDUCER

concentric,elongated
for butt welding
molded from PP-H

手工對接大小頭 **PP-H(披覆FRP)**
DFP RC1

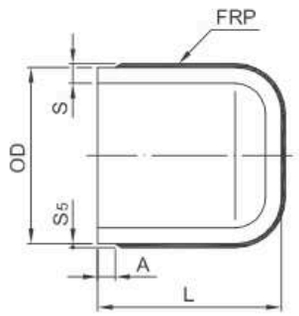


OD1/OD2 (mm)	L (mm)	L1 (mm)	L2 (mm)	S5 FRP (mm)	A (mm)	SDR17.6 ISO S8.3 PN6		SDR11 ISO S5 PN10	
						Code	S1/S2 (mm)	Code	S1/S2 (mm)
710-355	608	400	180	8	100	23-RC1-17-710355	48.2/28.1	23-RC1-11-710355	72.5/40.3
710-400	638	400	210	8	110	23-RC1-17-710400	48.2/30.7	23-RC1-11-710400	72.5/44.4
710-450	678	400	250	8	120	23-RC1-17-710450	48.2/33.5	23-RC1-11-710450	72.5/49.0
710-500	708	400	280	8	140	23-RC1-17-710500	48.2/36.3	23-RC1-11-710500	72.5/53.5
710-560	728	400	300	8	150	23-RC1-17-710560	48.2/39.7	23-RC1-11-710560	72.5/58.9
710-630	778	400	350	8	170	23-RC1-17-710630	48.2/43.7	23-RC1-11-710630	72.5/65.2
800-400	688	450	210	8	110	23-RC1-17-800400	53.5/30.7	23-RC1-11-800400	80.7/44.4
800-450	728	450	250	8	120	23-RC1-17-800450	53.5/33.5	23-RC1-11-800450	80.7/49.0
800-500	758	450	280	8	80	23-RC1-17-800500	53.5/36.3	23-RC1-11-800500	80.7/53.5
800-560	778	450	300	8	150	23-RC1-17-800560	53.5/39.7	23-RC1-11-800560	80.7/58.9
800-630	828	450	350	8	170	23-RC1-17-800630	53.5/43.7	23-RC1-11-800630	80.7/65.2
800-710	878	450	400	8	180	23-RC1-17-800710	53.5/48.2	23-RC1-11-800710	80.7/72.5
900-450	778	500	250	12	120	23-RC1-17-900450	63.2/37.5	23-RC1-11-900450	93.8/53.0
900-500	808	500	280	12	140	23-RC1-17-900500	63.2/40.3	23-RC1-11-900500	93.8/57.5
900-560	828	500	300	12	150	23-RC1-17-900560	63.2/43.7	23-RC1-11-900560	93.8/62.9
900-630	878	500	350	12	170	23-RC1-17-900630	63.2/47.7	23-RC1-11-900630	93.8/69.2
900-710	928	500	400	12	180	23-RC1-17-900710	63.2/52.2	23-RC1-11-900710	93.8/76.5
900-800	978	500	450	12	210	23-RC1-17-900800	63.2/57.5	23-RC1-11-900800	93.8/84.7
1000-500	858	550	280	12	140	23-RC1-17-100500	68.8/40.3	23-RC1-11-100500	102.9/57.5
1000-560	878	550	300	12	150	23-RC1-17-100560	68.8/43.7	23-RC1-11-100560	102.9/62.9
1000-630	928	550	350	12	170	23-RC1-17-100630	68.8/47.7	23-RC1-11-100630	102.9/69.2
1000-710	978	550	400	12	180	23-RC1-17-100710	68.8/52.2	23-RC1-11-100710	102.9/76.5
1000-800	1028	550	450	12	210	23-RC1-17-100800	68.8/57.5	23-RC1-11-100800	102.9/84.7
1000-900	1078	550	500	12	230	23-RC1-17-100900	68.8/63.2	23-RC1-11-100900	102.9/93.8
1200-560	928	600	300	12	150	23-RC1-17-120560	80.1/43.7	23-RC1-11-120560	121.0/62.9
1200-630	978	600	350	12	170	23-RC1-17-120630	80.1/47.7	23-RC1-11-120630	121.0/69.2
1200-710	1028	600	400	12	180	23-RC1-17-120710	80.1/52.2	23-RC1-11-120710	121.0/76.5
1200-800	1078	600	450	12	210	23-RC1-17-120800	80.1/57.5	23-RC1-11-120800	121.0/84.7
1200-900	1128	600	500	12	230	23-RC1-17-120900	80.1/63.2	23-RC1-11-120900	121.0/93.8
1200-1000	1178	600	550	12	240	23-RC1-17-120100	80.1/68.8	23-RC1-11-120100	121.0/102.9

PP-H(FRP COATED) END CAP

elongated
for butt welding
molded from PP-H
coated with FRP

對接管帽 **PP-H(披覆FRP)**
DFP CP1

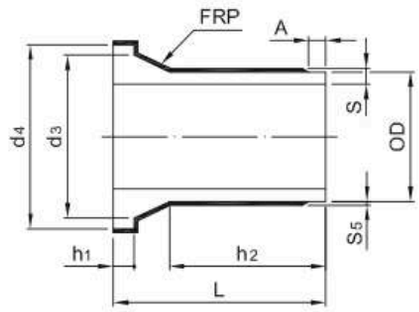


OD (mm)	L (mm)	S5 FRP (mm)	A (mm)	SDR17.6 ISO S8.3 PN6		SDR11 ISO S5 PN10		SDR7.4 ISO S3.2 PN16	
				Code	S (mm)	Code	S (mm)	Code	S (mm)
20	42.0	2	25	-	-	23-CP1-11-0020	4.5	23-CP1-07-0020	4.8
25	50.0	2	30	-	-	23-CP1-11-0025	4.7	23-CP1-07-0025	5.5
32	55.0	2	35	-	-	23-CP1-11-0032	5.0	23-CP1-07-0032	6.5
40	60.0	2	35	-	-	23-CP1-11-0040	5.7	23-CP1-07-0040	7.6
50	60.0	2	35	23-CP1-17-0050	4.9	23-CP1-11-0050	6.6	23-CP1-07-0050	8.9
63	70.0	3	35	23-CP1-17-0063	6.6	23-CP1-11-0063	8.8	23-CP1-07--0063	11.7
75	80.0	3	40	23-CP1-17-0075	7.3	23-CP1-11-0075	9.9	23-CP1-07-0075	13.4
90	90.0	3	40	23-CP1-17-0090	8.1	23-CP1-11-0090	11.2	23-CP1-07-0090	15.5
110	100.0	3	40	23-CP1-17-0110	9.3	23-CP1-11-0110	13.0	23-CP1-07-0110	18.2
125	110.0	3	45	23-CP1-17-0125	10.1	23-CP1-11-0125	14.4	-	-
140	144.0	3	50	23-CP1-17-0140	11.0	23-CP1-11-0140	15.8	-	-
160	167.0	3	55	23-CP1-17-0160	12.1	23-CP1-11-0160	17.6	-	-
180	191.0	3	55	23-CP1-17-0180	13.2	23-CP1-11-0180	19.4	-	-
200	181.0	3	60	23-CP1-17-0200	14.4	23-CP1-11-0200	21.2	-	-
225	211.5	3	70	23-CP1-17-0225	15.8	23-CP1-11-0225	23.5	-	-
250	230.0	5	70	23-CP1-17-0250	19.2	23-CP1-11-0250	27.8	-	-
280	257.0	5	80	23-CP1-17-0280	20.9	23-CP1-11-0280	30.5	-	-
315	262.0	5	90	23-CP1-17-0315	22.9	23-CP1-11-0315	33.7	-	-
355	130.0	5	100	23-CP1-17-0355	25.1	23-CP1-11-0355	37.3	-	-
400	130.0	5	110	23-CP1-17-0400	27.7	23-CP1-11-0400	41.4	-	-
450	150.0	5	120	23-CP1-17-0450	30.5	23-CP1-11-0450	46.0	-	-
500	150.0	8	140	23-CP1-17-0500	36.3	23-CP1-11-0500	53.5	-	-
560	160.0	8	150	23-CP1-17-0560	39.7	23-CP1-11-0560	58.9	-	-
630	160.0	8	170	23-CP1-17-0630	43.7	23-CP1-11-0630	65.2	-	-
710	160.0	8	180	23-CP1-17-0710	48.2	23-CP1-11-0710	72.5	-	-
800	160.0	8	210	23-CP1-17-0800	53.5	23-CP1-11-0800	80.7	-	-
900	160.0	12	230	23-CP1-17-0900	63.2	23-CP1-11-0900	93.8	-	-
1000	160.0	12	240	23-CP1-17-1000	68.8	23-CP1-11-1000	102.9	-	-
1200	160.0	12	260	23-CP1-17-1200	80.1	23-CP1-11-1200	121.0	-	-

PP-H(FRP COATED) STUB FLANGE

acc. DIN 16962/16963
for butt welding
molded from PP-H

對接中間法蘭 PP-H(披覆FRP)
DFP FT1



OD (mm)	d_3 (mm)	d_4 (mm)	h_2 (mm)	L (mm)	S5 FRP (mm)	A (mm)	SDR17.6 ISO S8.3 PN6			SDR11 ISO S5 PN10		
							Code	s (mm)	h_1 (mm)	Code	s (mm)	h_1 (mm)
20	28.0	44.9	28.0	50.8	2	25	-	-	-	23-FT1-0020-11	4.5	7.2
25	32.5	57.9	30.0	51.0	2	30	-	-	-	23-FT1-0025-11	4.7	9.2
32	40.2	67.9	26.0	50.9	2	35	-	-	-	23-FT1-0032-11	5.0	10
40	50.5	77.9	22.5	50.2	2	35	-	-	-	23-FT1-0040-11	5.7	11
50	60.6	87.8	22.5	50.8	2	35	23-FT1-0050-17.6	4.9	12.2	23-FT1-0050-11	6.6	12.2
63	73.5	102.1	19.0	50.1	3	35	23-FT1-0063-17.6	6.6	14	23-FT1-0063-11	8.8	14
75	85.0	121.8	19.0	49.8	3	40	23-FT1-0075-17.6	7.3	16.1	23-FT1-0075-11	9.9	16.1
90	104	137.7	41.0	80.0	3	40	23-FT1-0090-17.6	8.1	17	23-FT1-0090-11	11.2	17
110	125	158.0	39.0	80.0	3	40	23-FT1-0110-17.6	9.3	18.2	23-FT1-0110-11	13.0	18.2
125	135	158.0	102.0	175.0	3	45	23-FT1-0125-17.6	10.1	25.5	23-FT1-0125-11	14.4	25.5
140	155	191.0	129.7	197.1	3	50	23-FT1-0140-17.6	11.0	27.4	23-FT1-0140-11	15.8	27.4
160	175	212.0	110.0	160.5	3	55	23-FT1-0160-17.6	12.1	26.2	23-FT1-0160-11	17.6	26.2
180	186	217	127	180	3	55	23-FT1-0180-17.6	13.2	30	23-FT1-0180-11	19.4	30
200	229	268	144	213	3	60	23-FT1-0200-17.6	14.4	35.5	23-FT1-0200-11	21.2	35.5
225	237	268	144	213	3	70	23-FT1-0225-17.6	15.8	32	23-FT1-0225-11	23.5	32
250	284	320	205	273	5	70	23-FT1-0250-17.6	19.2	35	23-FT1-0250-11	27.8	35
280	292	320	303.5	375	5	80	23-FT1-0280-17.6	20.9	35	23-FT1-0280-11	30.5	35
315	334	371	303.5	379	5	90	23-FT1-0315-17.6	22.9	35	23-FT1-0315-11	33.7	35
355	373	430	-	175	5	100	23-FT1-0355-17.6	25.1	35	23-FT1-0355-11	37.3	35
400	427	482	-	175	5	110	23-FT1-0400-17.6	27.7	35	23-FT1-0400-11	41.4	35
450	514	585	-	180	5	120	23-FT1-0450-17.6	30.5	46	23-FT1-0450-11	46.0	46
500	530	585	-	180	8	140	23-FT1-0500-17.6	36.3	46	23-FT1-0500-11	53.5	46
560	615	685	-	180	8	150	23-FT1-0560-17.6	39.7	50	23-FT1-0560-11	58.9	50
630	642	685	-	200	8	170	23-FT1-0630-17.6	43.7	50	23-FT1-0630-11	65.2	50
710	737	800	-	200	8	180	23-FT1-0710-17.6	48.2	60	23-FT1-0710-11	72.5	60
800	-	905	-	200	8	210	23-FT1-0800-17.6	53.5	60	23-FT1-0800-11	80.7	60
900	-	1005	-	230	12	230	23-FT1-0900-17.6	63.2	70	23-FT1-0900-11	93.8	70
1000	-	1110	-	240	12	240	23-FT1-1000-17.6	68.8	70	23-FT1-1000-11	102.9	70
1200	-	1330	-	240	12	260	23-FT1-1200-17.6	80.1	70	23-FT1-1200-11	121.0	70

使用壽命表

Permissible system operating pressures for PP-H depending on temperature and operation period

（依溫度和使用時間不同下，PPH管路系統的許可使用壓力）

The in the tables stated data apply to water. They were determined from the creep curve taking into account a safety coefficient of c=1.25 and a long term welding factor of 0.8 (本表數據是流體為水，彎曲安全係數1.25及長期焊接係數0.8所訂)

Temperature（溫度）[°C]	Operating period（使用年限）[years]（年）	SDR 41	SDR 33	SDR 26	SDR 17.6	SDR 11	SDR 7.4	SDR 6
		S 20	S 16	S 12.5	S 8.3	S 5	S 3.2	S 2.5
		PN 2.5	PN 3.2	PN 4	PN 6	PN 10	PN 16	PN 20
10	1	4.2	5.4	6.8	10.1	16.8	27.0	33.7
	5	4.0	5.0	6.3	9.5	15.8	25.4	31.7
	10	3.8	4.9	6.2	9.2	15.5	24.8	30.9
	25	3.7	4.8	6.0	8.9	14.9	24.0	29.9
	50	3.6	4.7	5.8	8.7	14.5	23.3	29.2
20	1	3.6	4.6	5.7	8.6	14.3	22.9	28.6
	5	3.3	4.4	5.4	8.1	13.6	21.7	27.1
	10	3.2	4.2	5.2	7.9	13.2	21.1	26.4
	25	3.2	4.1	5.1	7.6	12.8	20.4	25.6
	50	3.1	4.0	4.9	7.4	12.4	19.8	24.8
30	1	3.0	4.0	4.9	7.3	12.3	19.6	24.5
	5	2.8	3.6	4.6	6.8	11.5	18.4	23.0
	10	2.8	3.6	4.4	6.7	11.1	17.8	22.2
	25	2.7	3.4	4.3	6.4	10.7	17.2	21.5
	50	2.6	3.3	4.2	6.3	10.4	16.8	20.9
40	1	2.5	3.3	4.1	6.2	10.4	16.5	20.7
	5	2.4	3.1	3.9	5.8	9.7	15.6	19.4
	10	2.4	3.0	3.7	5.6	9.4	15.2	18.9
	25	2.2	2.9	3.6	5.4	9.1	14.5	18.1
	50	2.2	2.8	3.5	5.2	8.8	14.1	17.6
50	1	2.1	2.8	3.5	5.2	8.8	14.0	17.5
	5	2.0	2.6	3.2	4.8	8.1	13.1	16.4
	10	2.0	2.5	3.2	4.8	7.9	12.7	15.8
	25	1.9	2.4	3.0	4.6	7.6	12.3	15.3
	50	1.8	2.4	2.9	4.4	7.4	11.9	14.8
60	1	1.8	2.4	2.9	4.4	7.4	11.9	14.8
	5	1.7	2.2	2.8	4.1	6.8	11.0	13.8
	10	1.6	2.1	2.6	4.0	6.6	10.6	13.2
	25	1.6	2.0	2.5	3.8	6.4	10.2	12.8
	50	1.5	2.0	2.4	3.7	6.2	9.9	12.4
70	1	1.6	2.0	2.4	3.7	6.2	9.9	12.4
	5	1.4	1.8	2.3	3.4	5.7	9.8	11.5
	10	1.3	1.7	2.2	3.3	5.6	8.8	11.1
	25	1.2	1.5	1.9	2.8	4.7	7.6	9.4
	50	1.0	1.3	1.6	2.4	4.0	6.5	8.1
80	1	1.2	1.6	2.0	3.1	5.2	8.4	10.4
	5	1.1	1.5	1.8	2.8	4.6	7.3	9.2
	10	0.9	1.2	1.5	2.3	3.8	6.1	7.6
	25	0.8	0.9	1.2	1.8	3.0	4.8	6.1
95	1	0.9	1.2	1.5	2.2	3.6	5.9	7.4
	5	0.6	0.8	0.9	1.5	2.4	4.0	4.9
	10	0.4	0.6	0.8	1.2	2.0	3.2	4.1

(1)These operating pressures have to be reduced by the corresponding reducing coefficient for every application.
（使用壓力必須依據不同的使用場合的相對降低係數來降低）

(2)Operating pressures do not apply to pipes exposed to UV radiation. Within 10 years of operation this influence may be neutralized or essentially reduced by adding carbon black, etc. to the molding material.
（本表的使用壓力不適用管子暴露在UV紫外線下，在10年內的使用下，將因成型用材料的黑碳等添加物而自然的降低）

UPVC & PP-H 管使用溫度、壓力降幅表

(UPVC&PP-H Temperature Pressure De-rating For Thermoplastic Materials)

System Operating Temperature (°F °C) 管線使用溫度	73 (23)	80 (27)	90 (32)	100 (38)	110 (43)	120 (49)	130 (54)	140 (60)	150 (66)	160 (71)	170 (77)	180 (82)	190 (88)	200 (93)	210 -0- (99) -0-
PVC	100%	86%	75%	62%	50%	40%	30%	21%	-0-	-0-	-0-	-0-	-0-	-0-	
PP-H	100%	100%	91%	82%	70%	65%	57%	50%	40%	38%	30%	24%	20%	-0-	

※ 1. 本表係以常溫73°F(23°C) 時，PVC管線/PP-H 管線之使用操作壓力為100%，隨著使用溫度升高，其操作壓力殘餘的百分比
2. 有螺牙的管線，PVC部份不得超過110°F(43°C)；PPH部份不得超過150°F(66°C)

※ 1. Elevated temperature fluid mediums require a de-rating of thermoplastic pipe maximum internal pressure ratings at 73°F. To determine the maximum internal pressure rating at an elevated temperature, simply multiply the product pressure rating at 73°F by the percentage specified for the desired temperature.
2.Threaded products should not be used at temperatures above 110°F(43°C) for PVC, and 150°F(66°C)for PP-H

Support distances for pipes out of PP-H, PP-R

（PP-H,PP-R管子的支撐距離）

Conversion factors for pipes out PP-H:

（PP-H管支撐距離的轉換公式）

The in the table stated support distances may be changed for other pressure ratings as follows:
（本表數據會因壓力等級做改變）

PN 6	-25%
PN 10	-9%
PN 16	+7%

The support distances have to be reduced by 4% for fluids with a density of 1.0 g/cm^3 up to 1.25 g/cm^3
At the transportation of gases with a density of <0.01 g/cm^3, the support distances can be increased as stated below:
（支撐距會因流體比重在1.0g/cm^{3}到1.25g/cm^{3}下減少4%，
瓦斯運輸上比若小於0.01g/cm^3，支撐距離可以增加如下：）

PN 6	+47%
PN 10	+30%
PN 16	+21%

Support distances for pipes out of PP-R（PP-R管子的支撐距離）

On calculating the support distances for pipes out of PP-R, the corresponding support distances of pipes out of PP-H have to Reduced by 25%（依據PP-H管的支撐距離來計算PP-R必須減少25%）

reduced by 25%

Support distances for pipes out of PP-H, PN 10（PP-H,PN10管的支撐距離）

da [mm]	Support distances L in [cm] at						
	20°C	30°C	40°C	50°C	60°C	70°C	80°C
16	65	62	60	57	55	52	50
20	70	67	65	62	60	57	55
25	80	77	75	72	70	67	65
32	95	92	90	89	85	80	75
40	110	107	105	100	95	92	87
50	125	122	120	115	110	105	100
63	145	142	140	135	130	125	120
75	155	150	145	140	135	130	125
90	165	160	155	150	145	140	135
110	185	180	175	170	160	150	140
125	200	195	190	180	170	160	150
140	210	205	200	190	180	170	160
160	225	220	210	200	190	180	170
200	250	240	230	220	210	200	190
225	265	255	245	235	225	215	200
250	280	270	260	250	240	230	215
280	295	285	275	265	255	245	230
315	315	305	295	285	270	260	245
355	355	325	315	300	285	275	260
400	355	345	335	320	305	290	275