



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

PRODUCTS ARE GOOD AT CORRASION/
CHEMICAL RESISTANCE.



台灣第一品管

PP-H

PP-H & PP-H (FRP COATED)

PIPE / FITTING / VALVE

大發管材工業股份有限公司
DURA FLOW PIPE IND. CO., LTD.



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公司簡介

大發管材工業股份有限公司是屬協羽機材工業集團旗下公司，專業製造生產各種塑膠管、配件及閥門，協羽集團成立於1972年，一向致力於化學工業、電子業及公共工程等，品質技術均達到國際水準；大發公司目前擁有两个工廠：全體員工246人，全集團生產廠均通過ISO 9001認證及美國衛生協會認證NSF合格廠。並取得國家標準9項CNS 正字標記產品認證及行政院環保署環保標章。另PP-H、PVDF產品正式生產無塵室所使用超純水HP-PP、HP-PVDF潔淨管、配件及閥門。



董事長 蔡添壽

CHAIRMAN TSAI TIEN-SHOU

Company Profile

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

Three main product features:

1. Complete range of production materials: We provide the production of UPVC, HIW-PVC, CPVC (HT-PVC), HD-PE, PP-H, ABS and PVDF, and we are the only company of the world that uses different production equipment in one factory.
2. Largest and most complete range of production specifications: The dimensions of production include UPVC 1/2"-24", HIW-PVC 1/2"-24", CPVC(HT-PVC) 1/2"-24", HD-PE ½"~1200mm, PP-H ½"~1200mm, ABS ½"~630mm and PVDF ½"~630mm. Our production specifications meet the requirements of relevant world standards, such as JIS, ANSI SCH80, SCH40, DIN PN2.5 to PN30 and BS specifications. Further, we also provide special specifications designated by the customer.
3. Straight pipes, accessories and valves are manufactured by the same factory and supplied through all-area product chain. As such, we are the fully equipped supplier that can satisfy the customers by providing the best one-stop services.

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



INNOVATION AND R&D

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

創新研發

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





產品認證

產品通過認證如下：

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

| CNS證號 | 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 | 聚氯乙稀塑膠水管 |
| 1302 | K3006 | 導電線用聚氯乙稀塑膠硬質管 |
| 14345 | K3114 | 耐衝擊硬質聚氯乙稀塑膠管 |
| 14664 | K3121 | 氯化聚氯乙稀(CPVC)塑膠管 |
| 2456 | K3012 | 自來水用聚乙稀塑膠管 |
| 2458 | K3013 | 化學工業及一般用高密度聚乙稀塑膠管 |
| 12835 | K3097 | 天然氣用聚乙稀塑膠管 |
| 13158 | K3102 | 自來水用丙烯 - 丁二烯- 苯乙烯(ABS)塑膠管 |

Listed below are certifications honored for our products:

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

| CNS General Number | Category Number | Product Name |
|--------------------|-----------------|---|
| 4053-1 | K3033-1 | Tap Water Hardened PVC Pipe |
| 1298 | K3004 | Hardened PVC Pipe |
| 1302 | K3006 | Conductive Wire Hardened PVC Pipe |
| 14345 | K3114 | Impact-resistant Hardened PVC Pipe |
| 14664 | K3121 | CPVC Pipe |
| 2456 | K3012 | Tap Water PE Pipe |
| 2458 | K3013 | Chemical Industry and General Purpose HDPE Pipe |
| 12835 | K3097 | Natural Gas PE Pipe |
| 13158 | K3102 | Tap Water ABS Pipe |



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



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

PP-H/PIPE

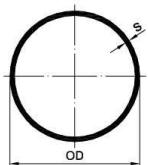
DIN 8077/8078

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 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 50 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 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 | 2.4 | 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 | 3.5 | 1.2 | 21-PIO-26-0110 | 4.3 | 1.4 |
| 125 | - | - | - | - | 21-PIO-41-0125 | 3.1 | 1.2 | 21-PIO-33-0125 | 3.9 | 1.5 | 21-PIO-26-0125 | 4.9 | 1.8 |
| 140 | - | - | - | - | 21-PIO-41-0140 | 3.5 | 1.5 | 21-PIO-33-0140 | 4.4 | 1.8 | 21-PIO-26-0140 | 5.4 | 2.2 |
| 160 | - | - | - | - | 21-PIO-41-0160 | 3.9 | 1.9 | 21-PIO-33-0160 | 5.0 | 2.4 | 21-PIO-26-0160 | 6.2 | 2.9 |
| 180 | - | - | - | - | 21-PIO-41-0180 | 4.4 | 2.4 | 21-PIO-33-0180 | 5.6 | 3.0 | 21-PIO-26-0180 | 7.0 | 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 | 7.0 | 4.6 | 21-PIO-26-0225 | 8.7 | 5.7 |
| 250 | - | - | - | - | 21-PIO-41-0250 | 6.1 | 4.6 | 21-PIO-33-0250 | 7.8 | 5.7 | 21-PIO-26-0250 | 9.7 | 7.1 |
| 280 | - | - | - | - | 21-PIO-41-0280 | 6.9 | 5.7 | 21-PIO-33-0280 | 8.7 | 7.2 | 21-PIO-26-0280 | 10.8 | 8.8 |
| 315 | - | - | - | - | 21-PIO-41-0315 | 7.7 | 7.2 | 21-PIO-33-0315 | 9.8 | 9.1 | 21-PIO-26-0315 | 12.2 | 11.2 |
| 355 | - | - | - | - | 21-PIO-41-0355 | 8.7 | 9.1 | 21-PIO-33-0355 | 11.1 | 11.6 | 21-PIO-26-0355 | 13.7 | 14.1 |
| 400 | 6.0 | 7.2 | 8.0 | 9.7 | 21-PIO-41-0400 | 9.8 | 11.6 | 21-PIO-33-0400 | 12.4 | 14.6 | 21-PIO-26-0400 | 15.4 | 17.9 |
| 450 | 6.0 | 8.2 | 8.0 | 11.0 | 21-PIO-41-0450 | 11.0 | 14.7 | 21-PIO-33-0450 | 14.0 | 18.4 | 21-PIO-26-0450 | 17.4 | 22.7 |
| 500 | 8.0 | 11.3 | 10.0 | 15.1 | 21-PIO-41-0500 | 12.2 | 18.0 | 21-PIO-33-0500 | 15.5 | 22.7 | 21-PIO-26-0500 | 19.3 | 28.0 |
| 560 | 10.0 | 16.6 | - | - | 21-PIO-41-0560 | 13.7 | 22.6 | 21-PIO-33-0560 | 17.4 | 28.5 | 21-PIO-26-0560 | 21.6 | 35.0 |
| 630 | 10.0 | 18.8 | - | - | 21-PIO-41-0630 | 15.4 | 28.6 | 21-PIO-33-0630 | 19.6 | 36.1 | 21-PIO-26-0630 | 24.3 | 44.3 |
| 710 | 12.0 | 25.3 | - | - | 21-PIO-41-0710 | 17.4 | 36.4 | 21-PIO-33-0710 | 22.1 | 45.8 | 21-PIO-26-0710 | 27.4 | 56.3 |
| 800 | 12.0 | 28.6 | - | - | 21-PIO-41-0800 | 19.6 | 46.1 | 21-PIO-33-0800 | 24.9 | 58.1 | 21-PIO-26-0800 | 30.8 | 71.2 |
| 900 | 15.0 | 40.2 | - | - | 21-PIO-41-0900 | 22.0 | 58.1 | 21-PIO-33-0900 | 28.0 | 73.4 | 21-PIO-26-0900 | 34.7 | 90.2 |
| 1000 | 15.0 | 44.7 | - | - | 21-PIO-41-1000 | 24.4 | 71.7 | 21-PIO-33-1000 | 31.1 | 90.7 | 21-PIO-26-1000 | 38.5 | 111.0 |
| 1200 | 18.0 | 64.4 | - | - | 21-PIO-41-1200 | 29.3 | 103.3 | 21-PIO-33-1200 | 37.3 | 130.0 | 21-PIO-26-1200 | 45.9 | 160.0 |

PP-H/PIPE

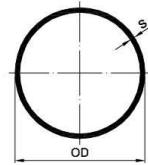
DIN 8077/8078

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 | | | | SDR7.25 ISO S3.125 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) | Code | S (mm) | Weight (kg/m) | | |
| 10 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 12 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 16 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 20 | - | - | - | - | - | - | - | - | - | - | 21-PIO-17-0020 | 1.8 | 0.10 | 21-PIO-11-0020 | 2.5 | 0.14 | 21-PIO-07-0020 | 2.8 |
| 25 | - | - | - | - | - | - | - | - | - | - | 21-PIO-17-0025 | 1.8 | 0.13 | 21-PIO-11-0025 | 2.7 | 0.19 | 21-PIO-07-0025 | 3.5 |
| 32 | - | - | - | - | - | - | - | - | - | - | 21-PIO-17-0032 | 1.9 | 0.18 | 21-PIO-11-0032 | 3.0 | 0.27 | 21-PIO-07-0032 | 4.5 |
| 40 | - | - | - | - | - | - | - | - | - | - | 21-PIO-17-0040 | 2.3 | 0.27 | 21-PIO-11-0040 | 3.7 | 0.41 | 21-PIO-07-0040 | 5.6 |
| 50 | - | - | - | - | - | - | - | - | - | - | 21-PIO-17-0050 | 2.9 | 0.42 | 21-PIO-11-0050 | 4.6 | 0.64 | 21-PIO-07-0050 | 6.9 |
| 63 | - | - | - | - | 21-PIO-17-0063 | 3.6 | 0.35 | 21-PIO-11-0063 | 5.8 | 1.0 | 21-PIO-07-0063 | 8.7 | 1.4 | - | - | - | - | - |
| 75 | - | - | - | - | 21-PIO-17-0075 | 4.3 | 0.44 | 21-PIO-11-0075 | 6.9 | 1.4 | 21-PIO-07-0075 | 10.4 | 2.0 | - | - | - | - | - |
| 90 | - | - | - | - | 21-PIO-17-0090 | 5.1 | 0.61 | 21-PIO-11-0090 | 8.2 | 2.0 | 21-PIO-07-0090 | 12.5 | 2.9 | - | - | - | - | - |
| 110 | - | - | - | - | 21-PIO-17-0110 | 6.3 | 0.9 | 21-PIO-11-0110 | 10.0 | 3.0 | 21-PIO-07-0110 | 15.2 | 4.3 | - | - | - | - | - |
| 125 | - | - | - | - | 21-PIO-17-0125 | 7.1 | 2.6 | 21-PIO-11-0125 | 11.4 | 3.9 | 21-PIO-07-0125 | 17.4 | 5.7 | - | - | - | - | - |
| 140 | - | - | - | - | 21-PIO-17-0140 | 8.0 | 3.2 | 21-PIO-11-0140 | 12.8 | 4.9 | 21-PIO-07-0140 | 19.3 | 6.7 | - | - | - | - | - |
| 160 | - | - | - | - | 21-PIO-17-0160 | 9.1 | 4.2 | 21-PIO-11-0160 | 14.6 | 6.4 | 21-PIO-07-0160 | 22.0 | 8.7 | - | - | - | - | - |
| 180 | - | - | - | - | 21-PIO-17-0180 | 10.2 | 5.2 | 21-PIO-11-0180 | 16.4 | 8.1 | 21-PIO-07-0180 | 24.8 | 11.3 | - | - | - | - | - |
| 200 | - | - | - | - | 21-PIO-17-0200 | 11.4 | 6.5 | 21-PIO-11-0200 | 18.2 | 9.9 | 21-PIO-07-0200 | 27.4 | 13.6 | - | - | - | - | - |
| 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 | 22.8 | 15.5 | 21-PIO-07-0250 | 34.48 | 21.47 | - | - | - | - | - |
| 280 | - | - | - | - | 21-PIO-17-0280 | 15.9 | 12.6 | 21-PIO-11-0280 | 25.5 | 19.5 | 21-PIO-07-0280 | 38.62 | 26.93 | - | - | - | - | - |
| 315 | - | - | - | - | 21-PIO-17-0315 | 17.9 | 16.0 | 21-PIO-11-0315 | 28.7 | 24.6 | 21-PIO-07-0315 | 43.45 | 34.08 | - | - | - | - | - |
| 355 | - | - | - | - | 21-PIO-17-0355 | 20.1 | 20.3 | 21-PIO-11-0355 | 32.3 | 31.2 | - | - | - | - | - | - | - | - |
| 400 | 6.0 | 7.2 | 8.0 | 9.7 | 21-PIO-17-0400 | 22.7 | 25.7 | 21-PIO-11-0400 | 36.4 | 39.7 | - | - | - | - | - | - | - | - |
| 450 | 6.0 | 8.2 | 8.0 | 11.0 | 21-PIO-17-0450 | 25.5 | 32.5 | 21-PIO-11-0450 | 41.0 | 50.2 | - | - | - | - | - | - | - | - |
| 500 | 8.0 | 11.3 | 10.0 | 15.1 | 21-PIO-17-0500 | 28.3 | 40.1 | 21-PIO-11-0500 | 45.5 | 62.0 | - | - | - | - | - | - | - | - |
| 560 | 10.0 | 16.6 | - | - | 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 | 45.5 | 105.2 | 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 | 64.4 | - | - | 21-PIO-17-1200 | 68.2 | 237.7 | 21-PIO-11-1200 | 109.0 | 380.2 | - | - | - | - | - | - | - | - |



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



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

PP-R PIPE

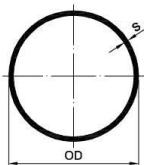
DIN 8077/8078

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 | 2.4 | 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 | 3.5 | 1.2 | 21-PIO-26-0110 | 4.3 | 1.4 |
| 125 | - | - | - | - | 21-PIO-41-0125 | 3.1 | 1.2 | 21-PIO-33-0125 | 3.9 | 1.5 | 21-PIO-26-0125 | 4.9 | 1.8 |
| 140 | - | - | - | - | 21-PIO-41-0140 | 3.5 | 1.5 | 21-PIO-33-0140 | 4.4 | 1.8 | 21-PIO-26-0140 | 5.4 | 2.2 |
| 160 | - | - | - | - | 21-PIO-41-0160 | 3.9 | 1.9 | 21-PIO-33-0160 | 5.0 | 2.4 | 21-PIO-26-0160 | 6.2 | 2.9 |
| 180 | - | - | - | - | 21-PIO-41-0180 | 4.4 | 2.4 | 21-PIO-33-0180 | 5.6 | 3.0 | 21-PIO-26-0180 | 7.0 | 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 | 7.0 | 4.6 | 21-PIO-26-0225 | 8.7 | 5.7 |
| 250 | - | - | - | - | 21-PIO-41-0250 | 6.1 | 4.6 | 21-PIO-33-0250 | 7.8 | 5.7 | 21-PIO-26-0250 | 9.7 | 7.1 |
| 280 | - | - | - | - | 21-PIO-41-0280 | 6.9 | 5.7 | 21-PIO-33-0280 | 8.7 | 7.2 | 21-PIO-26-0280 | 10.8 | 8.8 |
| 315 | - | - | - | - | 21-PIO-41-0315 | 7.7 | 7.2 | 21-PIO-33-0315 | 9.8 | 9.1 | 21-PIO-26-0315 | 12.2 | 11.2 |
| 355 | - | - | - | - | 21-PIO-41-0355 | 8.7 | 9.1 | 21-PIO-33-0355 | 11.1 | 11.6 | 21-PIO-26-0355 | 13.7 | 14.1 |
| 400 | 6.0 | 7.2 | 8.0 | 9.7 | 21-PIO-41-0400 | 9.8 | 11.6 | 21-PIO-33-0400 | 12.4 | 14.6 | 21-PIO-26-0400 | 15.4 | 17.9 |
| 450 | 6.0 | 8.2 | 8.0 | 11.0 | 21-PIO-41-0450 | 11.0 | 14.7 | 21-PIO-33-0450 | 14.0 | 18.4 | 21-PIO-26-0450 | 17.4 | 22.7 |
| 500 | 8.0 | 11.3 | 10.0 | 15.1 | 21-PIO-41-0500 | 12.2 | 18.0 | 21-PIO-33-0500 | 15.5 | 22.7 | 21-PIO-26-0500 | 19.3 | 28.0 |
| 560 | 10.0 | 16.6 | - | - | 21-PIO-41-0560 | 13.7 | 22.6 | 21-PIO-33-0560 | 17.4 | 28.5 | 21-PIO-26-0560 | 21.6 | 35.0 |
| 630 | 10.0 | 18.8 | - | - | 21-PIO-41-0630 | 15.4 | 28.6 | 21-PIO-33-0630 | 19.6 | 36.1 | 21-PIO-26-0630 | 24.3 | 44.3 |
| 710 | 12.0 | 25.3 | - | - | 21-PIO-41-0710 | 17.4 | 36.4 | 21-PIO-33-0710 | 22.1 | 45.8 | 21-PIO-26-0710 | 27.4 | 56.3 |
| 800 | 12.0 | 28.6 | - | - | 21-PIO-41-0800 | 19.6 | 46.1 | 21-PIO-33-0800 | 24.9 | 58.1 | 21-PIO-26-0800 | 30.8 | 71.2 |
| 900 | 15.0 | 40.2 | - | - | 21-PIO-41-0900 | 22.0 | 58.1 | 21-PIO-33-0900 | 28.0 | 73.4 | 21-PIO-26-0900 | 34.7 | 90.2 |
| 1000 | 15.0 | 44.7 | - | - | 21-PIO-41-1000 | 24.4 | 71.7 | 21-PIO-33-1000 | 31.1 | 90.7 | 21-PIO-26-1000 | 38.5 | 111.0 |
| 1200 | 18.0 | 64.4 | - | - | 21-PIO-41-1200 | 29.3 | 103.3 | 21-PIO-33-1200 | 37.3 | 130.0 | 21-PIO-26-1200 | 45.9 | 160.0 |

PP-R PIPE

acc.to ONORM B 5174

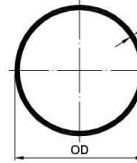
DIN 8077/8078

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 | | | SDR7.25 ISO S3.125 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 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 12 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 16 | - | - | - | - | - | - | - | - | - | - | 21-PIO-11-0016 | 2.0 | 0.08 |
| 20 | - | - | - | - | 21-PIO-17-0020 | 1.8 | 0.10 | 21-PIO-11-0020 | 2.5 | 0.14 | 21-PIO-07-0016 | 2.3 | 0.10 |
| 25 | - | - | - | - | 21-PIO-17-0025 | 1.8 | 0.13 | 21-PIO-11-0025 | 2.7 | 0.19 | 21-PIO-07-0025 | 3.5 | 0.23 |
| 32 | - | - | - | - | 21-PIO-17-0032 | 1.9 | 0.18 | 21-PIO-11-0032 | 3.0 | 0.27 | 21-PIO-07-0032 | 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 | 8.7 | 1.4 |
| 75 | - | - | - | - | 21-PIO-17-0075 | 4.3 | 0.94 | 21-PIO-11-0075 | 6.9 | 1.4 | 21-PIO-07-0075 | 10.4 | 2.0 |
| 90 | - | - | - | - | 21-PIO-17-0090 | 5.1 | 1.3 | 21-PIO-11-0090 | 8.2 | 2.0 | 21-PIO-07-0090 | 12.5 | 2.9 |
| 110 | - | - | - | - | 21-PIO-17-0110 | 6.3 | 2.0 | 21-PIO-11-0110 | 10.0 | 3.0 | 21-PIO-07-0110 | 15.2 | 4.3 |
| 125 | - | - | - | - | 21-PIO-17-0125 | 7.1 | 2.6 | 21-PIO-11-0125 | 11.4 | 3.9 | 21-PIO-07-0125 | 17.24 | 5.37 |
| 140 | - | - | - | - | 21-PIO-17-0140 | 8.0 | 3.2 | 21-PIO-11-0140 | 12.8 | 4.9 | 21-PIO-07-0140 | 19.31 | 6.73 |
| 160 | - | - | - | - | 21-PIO-17-0160 | 9.1 | 4.2 | 21-PIO-11-0160 | 14.6 | 6.4 | 21-PIO-07-0160 | 22.07 | 8.79 |
| 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 | 24.47 | 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 | 22.8 | 15.5 | 21-PIO-07-0250 | 34.48 | 21.47 |
| 280 | - | - | - | - | 21-PIO-17-0280 | 15.9 | 12.6 | 21-PIO-11-0280 | 25.5 | 19.5 | 21-PIO-07-0280 | 38.62 | 26.93 |
| 315 | - | - | - | - | 21-PIO-17-0315 | 17.9 | 16.0 | 21-PIO-11-0315 | 28.7 | 24.6 | 21-PIO-07-0315 | 43.45 | 34.08 |
| 355 | - | - | - | - | 21-PIO-17-0355 | 20.1 | 20.3 | 21-PIO-11-0355 | 32.3 | 31.2 | - | - | - |
| 400 | 6.0 | 7.2 | 8.0 | 9.7 | 21-PIO-17-0400 | 22.7 | 25.7 | 21-PIO-11-0400 | 36.4 | 39.7 | - | - | - |
| 450 | 6.0 | 8.2 | 8.0 | 11.0 | 21-PIO-17-0450 | 25.5 | 32.5 | 21-PIO-11-0450 | 41.0 | 50.2 | - | - | - |
| 500 | 8.0 | 11.3 | 10.0 | 15.1 | 21-PIO-17-0500 | 28.3 | 40.1 | 21-PIO-11-0500 | 45.5 | 62.0 | - | - | - |
| 560 | 10.0 | 16.6 | - | - | 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 | 45.5 | 105.2 | 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 | 64.4 | - | - | 21-PIO-17-1200 | 68.2 | 237.7 | 21-PIO-11-1200 | 109.0 | 380.2 | - | - | - |



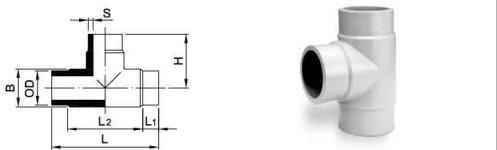
PP-H/PP-H(FRP COATED) PIPE FITTING VALVE



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

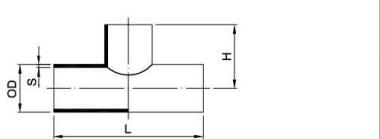
PP-H TEE

reinforced
for butt welding
molded from PP-H
對接正三通
DFP TT1



| OD (mm) | H (mm) | L (mm) | L ₁ (mm) | L ₂ (mm) | B (mm) | SDR17.6 ISO S8.3 PN6 | | SDR11 ISO S5 PN10 | | SDR7.25 ISO S3.125 PN16 | |
|------------|-----------|-----------|------------------------|------------------------|-----------|----------------------------|-----------|-------------------------|-----------|-------------------------------|-----------|
| | | | | | | Code | S (mm) | Code | S (mm) | Code | S (mm) |
| 20 | 35.00 | 70.0 | 15.0 | 40.0 | 21.0 | 21-TT1-17-0020 | 1.8 | 21-TT1-11-0020 | 2.5 | 21-TT1-07-0020 | 2.8 |
| 25 | 40.00 | 80.0 | 15.0 | 50.0 | 26.0 | 21-TT1-17-0025 | 1.8 | 21-TT1-11-0025 | 2.7 | 21-TT1-07-0025 | 3.5 |
| 32 | 47.75 | 89.0 | 17.0 | 55.0 | 33.4 | 21-TT1-17-0032 | 1.9 | 21-TT1-11-0032 | 3.0 | 21-TT1-07-0032 | 4.5 |
| 40 | 50.00 | 101.5 | 15.0 | 71.5 | 42.0 | 21-TT1-17-0040 | 2.3 | 21-TT1-11-0040 | 3.7 | 21-TT1-07-0040 | 5.6 |
| 50 | 60.00 | 122.0 | 23.0 | 76.0 | 52.0 | 21-TT1-17-0050 | 2.9 | 21-TT1-11-0050 | 4.6 | 21-TT1-07-0050 | 6.9 |
| 63 | 75.50 | 150.0 | 27.0 | 96.0 | 65.0 | 21-TT1-17-0063 | 3.6 | 21-TT1-11-0063 | 5.8 | 21-TT1-07-0063 | 8.7 |
| 75 | 87.50 | 176.0 | 28.0 | 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 | 182.0 | 32.5 | 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 | 217.5 | 34.5 | 148.5 | 114.0 | 21-TT1-17-0110 | 6.3 | 21-TT1-11-0110 | 10.0 | 21-TT1-07-0110 | 15.2 |
| 125 | 119.5 | 239.0 | 35.0 | 169.0 | 133.0 | 21-TT1-17-0125 | 7.1 | 21-TT1-11-0125 | 11.4 | - | - |
| 140 | 126.0 | 252.0 | 35.0 | 182.0 | 150.0 | 21-TT1-17-0140 | 8.0 | 21-TT1-11-0140 | 12.8 | - | - |
| 160 | 137.0 | 274.0 | 35.0 | 204.0 | 170.0 | 21-TT1-17-0160 | 9.1 | 21-TT1-11-0160 | 14.6 | - | - |
| 180 | 158.5 | 317.0 | 35.0 | 247.0 | 190.0 | 21-TT1-17-0180 | 10.2 | 21-TT1-11-0180 | 16.4 | - | - |
| 200 | 168.0 | 336.0 | 35.0 | 266.0 | 210.0 | 21-TT1-17-0200 | 11.4 | 21-TT1-11-0200 | 18.2 | - | - |
| 225 | 170.0 | 340.0 | 40.0 | 260.0 | 235.0 | 21-TT1-17-0020 | 12.8 | 21-TT1-11-0020 | 20.5 | - | - |
| 250 | 209.0 | 418.0 | 45.0 | 328.0 | 262.0 | 21-TT1-17-0250 | 14.2 | 21-TT1-11-0250 | 22.8 | - | - |
| 280 | 257.0 | 514.0 | 70.0 | 374.0 | 284.0 | 21-TT1-17-0280 | 15.9 | 21-TT1-11-0280 | 25.5 | - | - |
| 315 | 275.0 | 560.0 | 70.0 | 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

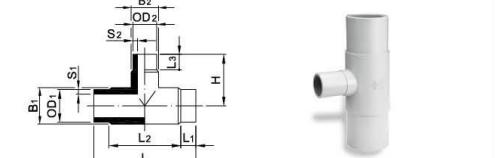


| OD (mm) | H (mm) | L (mm) | SDR33 ISO S16 PN3.2 | | SDR26 ISO S12.5 PN4 | | SDR17.6 ISO S8.3 PN6 | | SDR11 ISO S5 PN10 | |
|------------|-----------|-----------|---------------------------|-----------|---------------------------|-----------|----------------------------|-----------|-------------------------|-----------|
| | | | 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



| OD ₁ /OD ₂ (mm) | H (mm) | L (mm) | L ₁ (mm) | L ₂ (mm) | B ₁ (mm) | B ₂ (mm) | SDR17.6 ISO S8.3 PN6 | | SDR11 ISO S5 PN10 | | |
|--|-----------|-----------|------------------------|------------------------|------------------------|------------------------|----------------------------|---------------------------------------|-------------------------|---------------------------------------|-----------|
| | | | | | | | Code | S ₁ / ₂ (mm) | Code | S ₁ / ₂ (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 | 110 | 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)

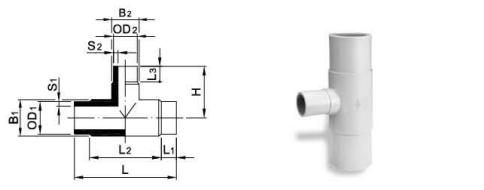


PP-H/PP-H(FRP COATED)
PIPE FITTING VALVE

**PP-H
REDUCED TEE**

for butt welding
molded from PP-H

對接異徑三通
DFP TR1



| OD ₁ /OD ₂ (mm) | H (mm) | L (mm) | L ₁ (mm) | L ₂ (mm) | L ₃ (mm) | B ₁ (mm) | B ₂ (mm) | SDR17.6 ISO S8.3 PN6 | | SDR11 ISO S5 PN10 | |
|--|-----------|-----------|------------------------|------------------------|------------------------|------------------------|------------------------|----------------------------|--|-------------------------|--|
| | | | | | | | | Code | S ₁ /S ₂ (mm) | Code | S ₁ /S ₂ (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 |

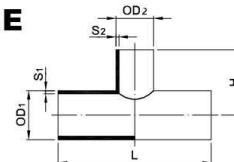
▲ 轉接品(Transition) * 手工製品(Fabricated)



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

PP-H REDUCED TEE

(Fabricated)
for butt welding
molded from PP-H
手工對接異徑三通
DFP TR1



| OD ₁ /OD ₂ (mm) | H (mm) | L (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 | 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 |
| 400-335 | 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 |



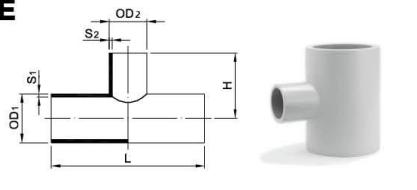
PP-H/PP-H(FRP COATED)
PIPE FITTING VALVE

PP-H REDUCED TEE

(Fabricated)
for butt welding
molded from PP-H

手工對接異徑三通

DFP TR1

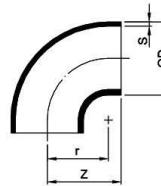


| OD ₁ /OD ₂ (mm) | H (mm) | L (mm) | SDR17.6 ISO S8.3 PN6 | | SDR11 ISO S5 PN10 | |
|--|-----------|-----------|----------------------------|--|-------------------------|--|
| | | | Code | S ₁ /S ₂ (mm) | Code | S ₁ /S ₂ (mm) |
| 710-355 | 540 | 1085 | 21-TR3-17-710355 | 40.2/20.1 | 21-TR3-11-710355 | 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-TR3-17-121000 | 68.1/56.8 | 21-TR3-11-121000 | 109.0/90.9 |

PP-H 90° BEND

for butt welding
molded from PP-H

對接90°彎管
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/PP-H(FRP COATED)
PIPE FITTING VALVE



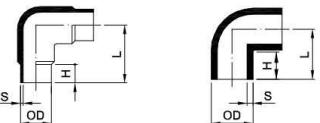
PP-H/PP-H(FRP COATED)
PIPE FITTING VALVE

PP-H 90° BEND

for butt welding
molded from PP-H

對接90°彎頭

DFP L91



(Ø20~Ø110, 140, 160, 225, 280) (Ø125, 180, 200, 250, 315)

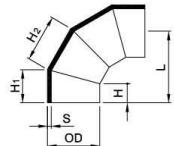
| OD (mm) | H (mm) | L (mm) | SDR17.6 ISO S8.3 PN6 | | SDR11 ISO S5 PN10 | | SDR7.25 ISO S3.125 PN16 | |
|------------|-----------|-----------|----------------------------|-----------|-------------------------|-----------|-------------------------------|-----------|
| | | | Code | S (mm) | Code | S (mm) | Code | S (mm) |
| 20 | 25 | 45.0 | - | - | 21-L91-11-0020 | 2.5 | 21-L91-07-0020 | 2.8 |
| 25 | 26 | 51.0 | - | - | 21-L91-11-0025 | 2.7 | 21-L91-07-0025 | 3.5 |
| 32 | 26 | 58.0 | - | - | 21-L91-11-0032 | 3.0 | 21-L91-07-0032 | 4.5 |
| 40 | 28 | 68.0 | - | - | 21-L91-11-0040 | 3.7 | 21-L91-07-0040 | 5.6 |
| 50 | 28 | 78.0 | 21-L91-17-0050 | 2.9 | 21-L91-11-0050 | 4.6 | 21-L91-07-0050 | 6.9 |
| 63 | 28 | 91.0 | 21-L91-17-0063 | 3.6 | 21-L91-11-0063 | 5.8 | 21-L91-07-0063 | 8.7 |
| 75 | 28 | 103.0 | 21-L91-17-0075 | 4.3 | 21-L91-11-0075 | 6.9 | 21-L91-07-0075 | 10.4 |
| 90 | 28 | 118.0 | 21-L91-17-0090 | 5.1 | 21-L91-11-0090 | 8.2 | 21-L91-07-0090 | 12.5 |
| 110 | 28 | 138.0 | 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 | 35 | 130.0 | 21-L91-17-0140 | 8.0 | 21-L91-11-0140 | 12.8 | - | - |
| 160 | 35 | 133.0 | 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 | 40 | 180.0 | 21-L91-17-0225 | 12.8 | 21-L91-11-0225 | 20.5 | - | - |
| 250 | 45 | 299.5 | 21-L91-17-0250 | 14.2 | 21-L91-11-0250 | 22.8 | - | - |
| 280 | 90 | 230.0 | 21-L91-17-0280 | 15.9 | 21-L91-11-0280 | 25.5 | - | - |
| 315 | 90 | 247.5 | 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



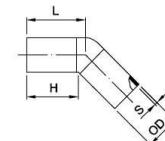
| OD (mm) | H ₁ (mm) | H ₂ (mm) | H (mm) | L (mm) | SDR17.6 ISO S8.3 PN6 | | SDR11 ISO S5 PN10 | |
|------------|------------------------|------------------------|-----------|-----------|----------------------------|-----------|-------------------------|-----------|
| | | | | | Code | S (mm) | Code | 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



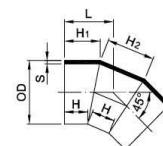
| OD (mm) | H (mm) | L (mm) | SDR17.6 ISO S13.3 PN6 | | SDR11 ISO S5 PN10 | | SDR7.25 ISO S3.125 PN16 | |
|------------|-----------|-----------|-----------------------------|-----------|-------------------------|-----------|-------------------------------|-----------|
| | | | Code | S (mm) | Code | S (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) | H ₁ (mm) | H ₂ (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/PP-H(FRP COATED)
PIPE FITTING VALVE

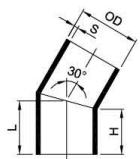


PP-H/PP-H(FRP COATED)
PIPE FITTING VALVE

PP-H 30° ELBOW

(Fabricated)
for butt welding
molded from PP-H

手工對接30°彎頭
DFP L30

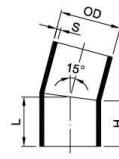


| OD (mm) | H (mm) | L (mm) | SDR17.6 ISO S8.3 PN6 | | SDR11 ISO S5 PN10 | | SDR7.25 ISO S3.125 PN16 | |
|------------|-----------|-----------|----------------------------|-----------|-------------------------|-----------|-------------------------------|-----------|
| | | | Code | S (mm) | Code | S (mm) | 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 | | SDR7.25 ISO S3.125 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/PP-H(FRP COATED)
PIPE FITTING VALVE

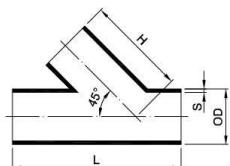


PP-H/PP-H(FRP COATED)
PIPE FITTING VALVE

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

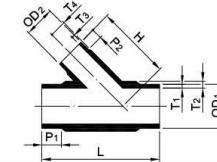


| OD (mm) | H (mm) | L (mm) | SDR17.6 ISO S8.3 PN6 | | SDR11 ISO S5 PN10 | |
|------------|-----------|-----------|----------------------------|-----------|-------------------------|-----------|
| | | | Code | S (mm) | Code | S (mm) |
| 63 | 146 | 279 | 21-TY1-17-0063 | 3.6 | 21-TY1-11-0063 | 5.8 |
| 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

對接異徑45°Y型三通
DFP TY1



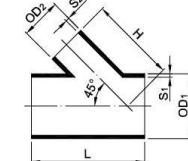
| OD ₁ /OD ₂ (mm) | H (mm) | L (mm) | P ₁ (mm) | P ₂ (mm) | SDR17.6 ISO S8.3 PN6 | | | | Code |
|--|-----------|-----------|------------------------|------------------------|----------------------------|------------------------|------------------------|------------------------|--------------------|
| | | | | | T ₁ (mm) | T ₂ (mm) | T ₃ (mm) | T ₄ (mm) | |
| 90-63 | 153.53 | 242 | 53 | 31 | 5.1 | 11.1 | 3.6 | 7.8 | 28-TY1-090063-17.6 |
| 110-63 | 172.50 | 273 | 65 | 31 | 6.3 | 13.1 | 3.6 | 7.8 | 28-TY1-110063-17.6 |
| 160-110 | 265.05 | 374 | 84 | 65 | 9.1 | 15.8 | 6.3 | 13.0 | 28-TY1-160110-17.6 |

| OD ₁ /OD ₂ (mm) | H (mm) | L (mm) | P ₁ (mm) | P ₂ (mm) | SDR11 ISO S5 PN10 | | | | Code |
|--|-----------|-----------|------------------------|------------------------|-------------------------|------------------------|------------------------|------------------------|------------------|
| | | | | | T ₁ (mm) | T ₂ (mm) | T ₃ (mm) | T ₄ (mm) | |
| 90-63 | 153.53 | 242 | 53 | 31 | 8.2 | 14.2 | 6.0 | 10.0 | 28-TY1-090063-11 |
| 110-63 | 172.50 | 273 | 65 | 31 | 10.0 | 16.8 | 6.0 | 10.0 | 28-TY1-110063-11 |
| 110-90 | 207.35 | 316.25 | 65 | 53 | 10.0 | 16.8 | 8.5 | 14.2 | 28-TY1-110090-11 |
| 160-90 | 248.04 | 356.50 | 84 | 53 | 14.6 | 21.3 | 8.3 | 14.2 | 28-TY1-160090-11 |
| 160-110 | 265.05 | 374 | 84 | 65 | 14.6 | 21.3 | 10.4 | 16.7 | 28-TY1-160110-11 |

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



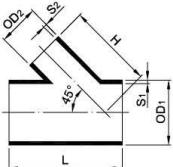
| OD ₁ /OD ₂ (mm) | H (mm) | L (mm) | SDR17.6 ISO S8.3 PN6 | | SDR11 ISO S5 PN10 | |
|--|-----------|-----------|----------------------------|--------------------------|-------------------------|--------------------------|
| | | | Code | S/S ₂ (mm) | Code | S/S ₂ (mm) |
| 110-32 | 174 | 262 | 28-TY6-110032-17.6 | 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 |
| 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 |



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

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



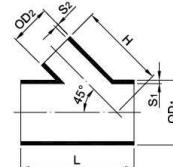
| OD ₁ /OD ₂ (mm) | H (mm) | L (mm) | SDR17.6 ISO S8.3 PN6 | | SDR11 ISO S5 PN10 | |
|--|-----------|-----------|----------------------------|--|-------------------------|--|
| | | | Code | S ₁ /S ₂ (mm) | Code | S ₁ /S ₂ (mm) |
| 160-63 | 245 | 360 | 28-TY6-160063-17.6 | 9.1/3.6 | 28-TY6-160063-11 | 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/PP-H(FRP COATED)
PIPE FITTING VALVE

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



| OD ₁ /OD ₂ (mm) | H (mm) | L (mm) | SDR17.6 ISO S8.3 PN6 | | SDR11 ISO S5 PN10 | |
|--|-----------|-----------|----------------------------|--|-------------------------|--|
| | | | Code | S ₁ /S ₂ (mm) | Code | S ₁ /S ₂ (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/PP-H(FRP COATED)
PIPE FITTING VALVE

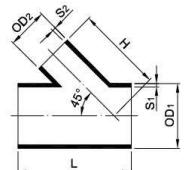


PP-H/PP-H(FRP COATED)
PIPE FITTING VALVE

PP-H REDUCED 45° Y-TEE

(Fabricated)
for butt welding
molded from PP-H

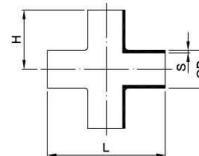
手工對接45°異徑Y型三通
DFP TY6



PP-H CROSS

(Fabricated)
for butt welding
molded from PP-H

手工對接四通
DFP TZ1



| OD ₁ /OD ₂ (mm) | H (mm) | L (mm) | SDR17.6 ISO 883 PN6 | | SDR11 ISO 55 PN10 | |
|--|-----------|-----------|---------------------------|--|-------------------------|--|
| | | | Code | S ₁ /S ₂ (mm) | Code | S ₁ /S ₂ (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 |

| OD (mm) | H (mm) | L (mm) | SDR17.6 ISO 883 PN6 | | SDR11 ISO 55 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/ PP-H(FRP COATED) PIPE FITTING VALVE

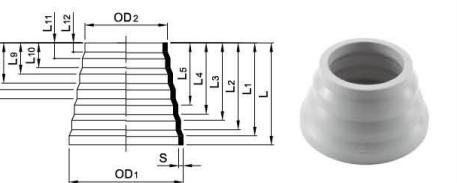


PP-H/PP-H(FRP COATED) PIPE FITTING VALVE

PP-H REDUCER CONCENTRIC

for butt welding
molded from PP-H

對接塔型大小頭
DEP TW1



| OD _x /OD _z (mm) | L ₁ (mm) | L ₂ (mm) | L ₃ (mm) | L ₄ (mm) | L ₅ (mm) | L ₆ (mm) | L ₇ (mm) | L ₈ (mm) | L ₉ (mm) | L ₁₀ (mm) | L ₁₁ (mm) | L ₁₂ (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 | - | - | - | - | - | - |

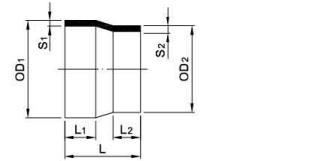
| PN | 6 | 16 | 20 | 25 | 32 | 40 | 50 | 63 | 75 | 90 | 110 | 125 | 140 | 160 | 180 | 200 | 225 | 250 | 280 | 315 | 355 | 400 | 450 | 500 | 560 | 630 |
|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|
| 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 | | |
| PN | 10 | 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 | |

| OD ₁ /OD ₂ (mm) | L (mm) | SDR17.6 | SDR11 |
|--|-----------|------------------|------------------|
| | | ISO 58.3 PN6 | ISO S5 PN10 |
| 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-RC1-11-110063 | 6.3/3.6 | 21-RC1-11-110063 | 10.0/5.8 |
| 110-75 | 90 | 35 | 30 | 21-RC1-11-110075 | 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-RC1-17-250225 | 14.2/12.8 | 21-RC1-11-250225 | 22.8/20.5 |
| 280-250 | 180 | 80 | 60 | 21-RC1-17-280250 | 15.9/14.2 | 21-RC1-11-280250 | 25.5/22.2 |
| 315-280 | 220 | 90 | 80 | 21-RC1-17-315280 | 17.9/15.9 | 21-RC1-11-315280 | 28.7/25.5 |



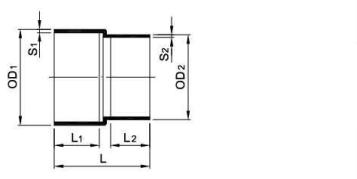
PP-H/PP-H(FRP COATED)
PIPE FITTING VALVE



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

PP-H REDUCER

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



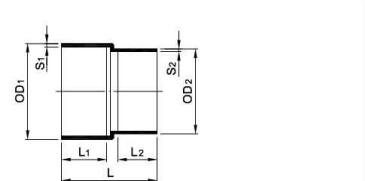
| OD ₁ /OD ₂ (mm) | L (mm) | L ₁ (mm) | L ₂ (mm) | SDR17.6 ISO S8.3 PN6 | | SDR11 ISO S5 PN10 | |
|--|-----------|------------------------|------------------------|----------------------------|--|-------------------------|--|
| | | | | Code | S ₁ /S ₂ (mm) | Code | S ₁ /S ₂ (mm) |
| 355-180 | 318 | 180 | 110 | 21-RC1-17-355180 | 20/10.2 | 21-RC1-11-355180 | 32/3/16.4 |
| 355-200 | 328 | 180 | 120 | 21-RC1-17-355200 | 20/11.4 | 21-RC1-11-355200 | 32/3/18.2 |
| 355-225 | 328 | 180 | 120 | 21-RC1-17-355225 | 20/12.8 | 21-RC1-11-355225 | 32/3/20.5 |
| 355-250 | 338 | 180 | 130 | 21-RC1-17-355250 | 20/14.2 | 21-RC1-11-355250 | 32/3/22.8 |
| 355-280 | 358 | 180 | 150 | 21-RC1-17-355280 | 20/15.9 | 21-RC1-11-355280 | 32/3/25.5 |
| 355-315 | 368 | 180 | 160 | 21-RC1-17-355315 | 20/17.9 | 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 |
| 900-710 | 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-RC1-17-121000 | 68/1/56.8 | 21-RC1-11-121000 | 109/0/90.9 |



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

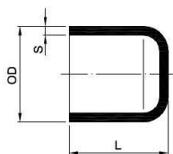


PP-H/PP-H(FRP COATED)
PIPE FITTING VALVE

PP-H END CAP

elongated
for butt welding
molded from PP-H

對接管帽
DFP CP1

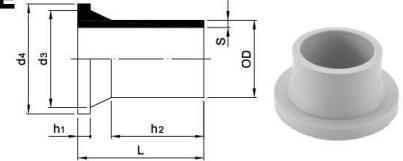


| OD (mm) | L (mm) | SDR17.6 ISO S8.3 PN6 | | SDR11 ISO S5 PN10 | | SDR7.25 ISO S3.125 PN16 | |
|------------|-----------|----------------------------|-----------|-------------------------|-----------|-------------------------------|-----------|
| | | Code | S (mm) | Code | S (mm) | Code | S (mm) |
| 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



| 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) | Code | S (mm) | | |
| 20 | 28.0 | 50.8 | 28.0 | 44.9 | 21-FT1-0020-17.6 | 1.8 | 7.2 | 21-FT1-0020-11 | 2.5 | 7.2 |
| 25 | 29.0 | 51.0 | 32.9 | 57.9 | 21-FT1-0025-17.6 | 1.8 | 9.2 | 21-FT1-0025-11 | 2.7 | 9.2 |
| 32 | 26.0 | 50.2 | 40.2 | 67.9 | 21-FT1-0032-17.6 | 1.9 | 10 | 21-FT1-0032-11 | 3.0 | 10 |
| 40 | 21.5 | 50.1 | 50.5 | 77.9 | 21-FT1-0040-17.6 | 2.3 | 11 | 21-FT1-0040-11 | 3.7 | 11 |
| 50 | 22.0 | 50.7 | 60.6 | 87.8 | 21-FT1-0050-17.6 | 2.9 | 12.2 | 21-FT1-0050-11 | 4.6 | 12.2 |
| 63 | 18.5 | 50.3 | 73.5 | 102.1 | 21-FT1-0063-17.6 | 3.6 | 14 | 21-FT1-0063-11 | 5.8 | 14 |
| 75 | 19.0 | 49.8 | 87.0 | 121.8 | 21-FT1-0075-17.6 | 4.3 | 16.1 | 21-FT1-0075-11 | 6.9 | 16.1 |
| 90 | 41.0 | 80.1 | 104 | 137.7 | 21-FT1-0090-17.6 | 5.1 | 17 | 21-FT1-0090-11 | 8.2 | 17 |
| 110 | 38.5 | 80.0 | 126 | 157.5 | 21-FT1-0110-17.6 | 6.3 | 18.2 | 21-FT1-0110-11 | 10.0 | 18.2 |
| 125 | 99.0 | 175.0 | 131 | 158.0 | 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 | 109.5 | 161.1 | 174 | 212.1 | 21-FT1-0160-17.6 | 9.1 | 26.2 | 21-FT1-0160-11 | 14.6 | 26.2 |
| 180 | - | 140 | - | 212 | 21-FT1-0180-17.6 | 10.2 | 30 | 21-FT1-0180-11 | 16.4 | 30 |
| 200 | 141.5 | 217 | 232 | 271 | 21-FT1-0200-17.6 | 11.4 | 35.5 | 21-FT1-0200-11 | 18.2 | 35.5 |
| 225 | 145 | 213 | 235 | 268 | 21-FT1-0225-17.6 | 12.8 | 32 | 21-FT1-0225-11 | 20.5 | 32 |
| 250 | 202 | 275 | 285 | 320 | 21-FT1-0250-17.6 | 14.2 | 35 | 21-FT1-0250-11 | 22.8 | 35 |
| 280 | 302 | 377 | 291 | 320 | 21-FT1-0280-17.6 | 15.9 | 35 | 21-FT1-0280-11 | 25.5 | 35 |
| 315 | 302 | 382 | 335 | 370 | 21-FT1-0315-17.6 | 17.9 | 35 | 21-FT1-0315-11 | 28.7 | 35 |
| 355 | 140 | 203 | 373 | 430 | 21-FT1-0355-17.6 | 20.1 | 35 | 21-FT1-0355-11 | 32.3 | 35 |
| 400 | 140 | 203 | 427 | 482 | 21-FT1-0400-17.6 | 22.7 | 35 | 21-FT1-0400-11 | 36.4 | 35 |
| 450 | 140 | 216 | 514 | 585 | 21-FT1-0450-17.6 | 25.5 | 46 | 21-FT1-0450-11 | 41.0 | 46 |
| 500 | 140 | 216 | 530 | 585 | 21-FT1-0500-17.6 | 28.3 | 46 | 21-FT1-0500-11 | 45.5 | 46 |
| 560 | 140 | 220 | 615 | 685 | 21-FT1-0560-17.6 | 31.7 | 50 | 21-FT1-0560-11 | 50.9 | 50 |
| 630 | 140 | 220 | 642 | 685 | 21-FT1-0630-17.6 | 35.7 | 50 | 21-FT1-0630-11 | 57.2 | 50 |
| 710 | 150 | 246 | 737 | 800 | 21-FT1-0710-17.6 | 40.2 | 60 | 21-FT1-0710-11 | 64.5 | 60 |
| 800 | 150 | 248 | 840 | 905 | 21-FT1-0800-17.6 | 45.5 | 60 | 21-FT1-0800-11 | 72.7 | 60 |
| 900 | 150 | 260 | 944 | 1005 | 21-FT1-0900-17.6 | 51.2 | 70 | 21-FT1-0900-11 | 81.8 | 70 |
| 1000 | 150 | 260 | 1047 | 1110 | 21-FT1-1000-17.6 | 56.8 | 70 | 21-FT1-1000-11 | 90.9 | 70 |
| 1200 | 150 | 260 | 1245 | 1330 | 21-FT1-1200-17.6 | 68.1 | 70 | 21-FT1-1200-11 | 109.0 | 70 |



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



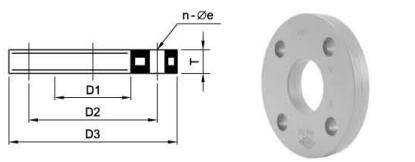
**PP-H/PP-H(FRP COATED)
PIPE FITTING VALVE**

BACKING RING

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

法蘭鐵片

DFP FHD



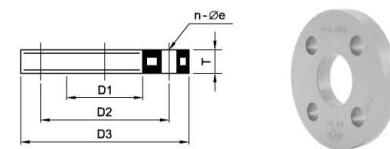
| OD (mm) | D1 (mm) | D2 (mm) | D3 (mm) | e (mm) | n Number | T (mm) | SDR11 ISO 55 PN16 |
|------------|------------|------------|------------|-----------|-------------|-----------|-------------------------|
| | | | | | | | Code |
| 20 | 28 | 65 | 95 | 14 | 4 | 12 | 31-FHD-11-0020 |
| 25 | 34 | 75 | 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) | SDR33 ISO 55 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 |

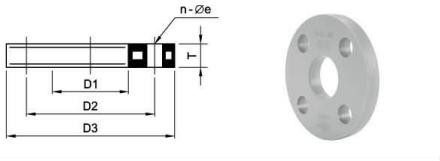
▲鋼鐵製品(Steel ones)



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

BACKING RING

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



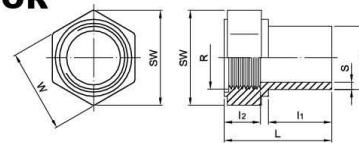
| DN (inch) | D1 (mm) | D2 (mm) | D3 (mm) | e (mm) | n Number | T (mm) | SDR33 ISO S19 PN10 |
|--------------|------------|------------|------------|-----------|-------------|-----------|--------------------------|
| | | | | | | | Code |
| 1/2" | 28 | 70 | 96 | 15 | 4 | 12 | 31-FHJ-11-0020 |
| 3/4" | 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 | 215 | 250 | 23 | 8 | 20 | 31-FHJ-11-0140 |
| 6" | 178 | 240 | 280 | 23 | 8 | 21 | 31-FHJ-11-0160 |
| 8" | 238 | 290 | 330 | 23 | 8 | 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

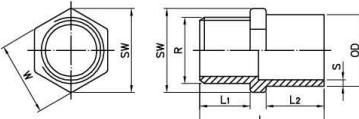


| OD (mm) | S (mm) | L (mm) | L ₁ (mm) | L ₂ (mm) | R | WxSW (mm) | SDR11 ISO S5 PN10 Code |
|------------|-----------|-----------|------------------------|------------------------|-----------|--------------|---------------------------------|
| | | | | | | | Code |
| 20 | 2.5 | 46 | 21.5 | 16.0 | 1/2" 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) | L ₁ (mm) | L ₂ (mm) | R | WxSW (mm) | SDR11 ISO S5 PN10 Code |
|------------|-----------|-----------|------------------------|------------------------|-----------|--------------|---------------------------------|
| | | | | | | | 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/PP-H(FRP COATED)
PIPE FITTING VALVE

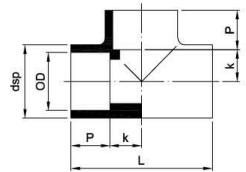


PP-H/PP-H(FRP COATED)
PIPE FITTING VALVE

PP-H TEE

for socket welding
molded from PP-H

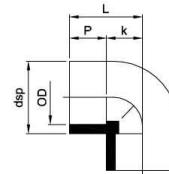
套接三通
DFP TT3



PP-H 90° ELBOW

for socket welding
molded from PP-H

套接90°彎頭
DFP L92

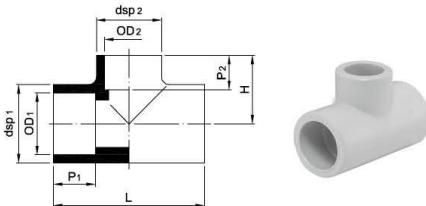


| OD (mm) | dsp (mm) | k (mm) | P (mm) | L (mm) | SDR11 ISO S5 PN10 | |
|------------|-------------|-----------|-----------|-----------|-------------------------|--------------------|
| | | | | | Code | Weight (kg/Pc.) |
| 16 | 24.0 | 12.5 | 14.5 | 54.0 | 21-TT3-11-0016 | 0.018 |
| 20 | 29.0 | 14.5 | 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

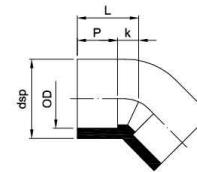
套接異徑三通
DFP TR2



PP-H 45° ELBOW

for socket welding
molded from PP-H

套接45°彎頭
DFP L46



| OD (mm) | H (mm) | L (mm) | dsp ₁ (mm) | dsp ₂ (mm) | P ₁ (mm) | P ₂ (mm) | SDR11 ISO S5 PN10 | |
|------------|-----------|-----------|--------------------------|--------------------------|------------------------|------------------------|-------------------------|--------------------|
| | | | | | | | Code | Weight (kg/Pc.) |
| 25/20 | 32.0 | 68.5 | 35.1 | 29.1 | 17.5 | 15.5 | 21-TR2-11-025020 | 0.04 |
| 32/20 | 40.0 | 80.5 | 43.1 | 29.1 | 19.6 | 15.5 | 21-TR2-11-032020 | 0.05 |
| 32/25 | 40.0 | 80.5 | 43.1 | 35.1 | 19.6 | 17.5 | 21-TR2-11-032025 | 0.06 |
| 40/20 | 45.0 | 90.5 | 52.2 | 29.1 | 21.6 | 15.5 | 21-TR2-11-040020 | 0.08 |
| 40/25 | 45.0 | 90.5 | 52.2 | 35.1 | 21.6 | 17.5 | 21-TR2-11-040025 | 0.08 |
| 40/32 | 45.0 | 91.5 | 52.2 | 43.1 | 21.6 | 19.6 | 21-TR2-11-040032 | 0.10 |
| 50/20 | 52.5 | 110.5 | 64.2 | 29.1 | 23.6 | 15.5 | 21-TR2-11-050020 | 0.16 |
| 50/25 | 52.5 | 110.5 | 64.2 | 35.1 | 23.6 | 17.5 | 21-TR2-11-050025 | 0.16 |
| 50/32 | 52.5 | 107.0 | 64.2 | 43.1 | 23.6 | 19.6 | 21-TR2-11-050032 | 0.17 |
| 50/40 | 52.5 | 107.0 | 64.2 | 52.2 | 23.6 | 21.6 | 21-TR2-11-050040 | 0.17 |
| 63/25 | 65.0 | 128.6 | 81.3 | 35.1 | 28.1 | 17.5 | 21-TR2-11-063025 | 0.27 |
| 63/32 | 64.5 | 128.6 | 81.3 | 43.1 | 28.1 | 19.6 | 21-TR2-11-063032 | 0.27 |
| 63/40 | 64.5 | 128.6 | 81.3 | 52.2 | 28.1 | 21.6 | 21-TR2-11-063040 | 0.28 |
| 63/50 | 64.5 | 128.6 | 81.3 | 64.2 | 28.1 | 23.6 | 21-TR2-11-063050 | 0.28 |

| OD (mm) | dsp (mm) | P (mm) | k (mm) | L (mm) | SDR11 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/PP-H(FRP COATED)
PIPE FITTING VALVE



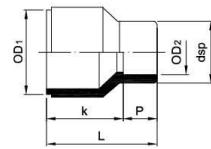
PP-H/PP-H(FRP COATED)
PIPE FITTING VALVE

PP-H REDUCER

for socket welding
molded from PP-H

套接大小頭

DFP RC2

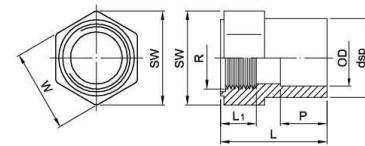


PP-H ADAPTOR

with female thread
for socket welding
molded from PP-H

套接內牙閥接頭

DFP FD2



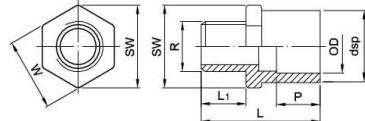
| OD/OD ₂ (mm) | dsp (mm) | k (mm) | P (mm) | L (mm) | SDR11 ISO S5 PN10 | |
|----------------------------|-------------|-----------|-----------|-----------|-------------------------|--------------------|
| | | | | | Code | Weight (kg/Pc.) |
| 20/16 | 23.5 | 21.0 | 14.0 | 35.0 | 21-RC2-11-020016 | 0.004 |
| 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 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) | L ₁ (mm) | P (mm) | R (mm) | WxSW (mm) | SDR11 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 | |

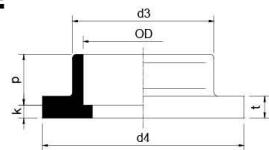


PP-H/PP-H(FRP COATED) PIPE FITTING VALVE

PP-H FLANGE ADAPTORS

for socket welding
molded from PP-H

套接中間法蘭
DFP FT2

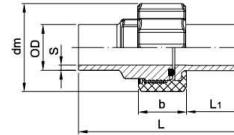


PP-H/PP-H(FRP COATED) PIPE FITTING VALVE

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

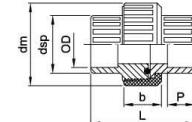


| OD (mm) | S (mm) | L (mm) | L1 (mm) | dm (mm) | b (mm) | SDR11 ISO S5 PN10 | |
|------------|-----------|-----------|------------|------------|-----------|-------------------------|--------------------|
| | | | | | | Code | Weight (kg/Pc.) |
| 20 | 2.5 | 108.5 | 38.0 | 47.54 | 24.6 | 21-EU1-11-0020 | |
| 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) | SDR11 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/PP-H(FRP COATED)
PIPE FITTING VALVE

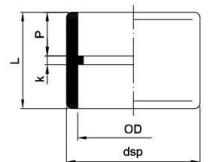


PP-H/PP-H(FRP COATED)
PIPE FITTING VALVE

PP-H SOCKET

for socket welding
molded from PP-H

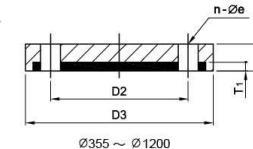
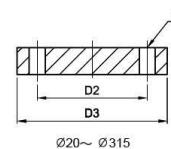
平接頭
DFP CL2



**PP-H
BLIND FLANGE**

MACHINED DIN PN10
molded from PP-H

盲法蘭
DFP FB1



Ø355 ~ Ø1200

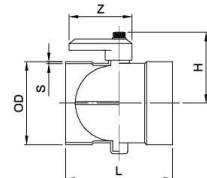
鋼板加PPH板(steel w/PPH sheet)

| OD (mm) | dsp (mm) | k (mm) | P (mm) | L (mm) | SDR11 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 |

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

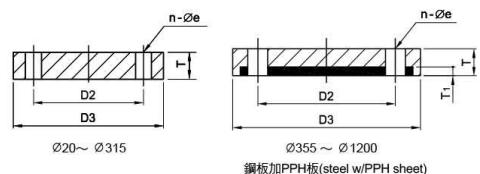


PP-H/PP-H(FRP COATED)
PIPE FITTING VALVE

**PP-H
BLIND FLANGE**

MACHINED ANSI 150#
molded from PP-H

盲法蘭
DFP FT7

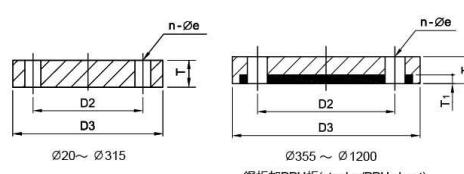


| OD (mm) | DN (inch) | D2 (mm) | D3 (mm) | e (mm) | n Number | T (mm) | T ₁ (mm) | Code |
|------------|--------------|------------|------------|-----------|-------------|-----------|------------------------|-----------------|
| 20 | 1/2" | 60 | 89 | 16 | 4 | 16 | - | 21-FT7-33-020A |
| 25 | 3/4" | 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



| 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 |



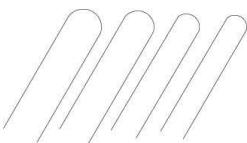
**PP-H/PP-H(FRP COATED)
PIPE FITTING VALVE**



**PP-H/UPVC/CPVC
PIPE FITTING VALVE**

PP-H ROUND BAR

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



圓棒
DFP PR1

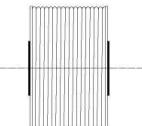
| OD (mm) | Tolerance | | Material | |
|------------|-----------------|-----------------|----------------|-------------|
| | Minimum (mm) | Maximum (mm) | Weight (mm) | Code |
| 10 | +0.1 | +0.6 | 0.076 | 21-PR1-0010 |
| 12 | +0.1 | +0.6 | 0.103 | 21-PR1-0012 |
| 15 | +0.2 | +0.7 | 0.177 | 21-PR1-0015 |
| 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

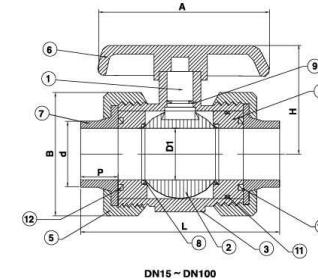


| Design | Diameter (mm) | Weight (kg/coil) | Code |
|-----------------------------|------------------|---------------------|-------------|
| Welding rod extruded, round | Ø 3 | ca.4.5kg | 21-PW1-0003 |
| | Ø 4 | ca.4.5kg | 21-PW1-0004 |

TRUE UNION BALL VALVE (Butt Welding type)

雙由任球閥(面對面焊接型)

CW100 Size:1/2"-4"



MATERIALS OF CONSTRUCTION

| Item | Parts | Pcs | Material | Item | Parts | Pcs | Material |
|------|--------------|-----|----------|------|---------------------|---------------------|------------|
| 1 | STEM | 1 | PP,PVDF | 7 | CONNECTOR | 2 | PP,PVDF |
| 2 | BALL | 1 | PP,PVDF | 8 | SEAT | 2 | PTFE |
| 3 | BODY | 1 | PP,PVDF | 9 | SEAT O-RING | DN15~50 DN65~100 | 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

| Nom Size DN-Inch | DIN | | | | | | | Unit:mm | |
|---------------------|-----|-----|------|-------|-----|-----|-----|---------------------|---------------------|
| | D1 | d | P | L | A | H | B | Working Pressure | Test Pressure |
| | | | | | | | | kgf/cm ² | kgf/cm ² |
| 15(1/2") | 14 | 20 | 16.0 | 163 | 82 | 51 | 47 | 6.7 | 10 |
| 20(3/4") | 19 | 25 | 18.5 | 174 | 101 | 64 | 60 | 6.7 | 10 |
| 25(1") | 25 | 32 | 22.0 | 178.5 | 111 | 70 | 68 | 6.7 | 10 |
| 32(1-1/4") | 38 | 40 | 26.0 | 192 | 126 | 83 | 80 | 6.7 | 10 |
| 40(1-1/2") | 38 | 50 | 31.0 | 198 | 126 | 83 | 92 | 6.7 | 10 |
| 50(2") | 49 | 63 | 37.5 | 208 | 152 | 102 | 111 | 6.7 | 10 |
| 65(2-1/2") | 67 | 75 | 43.5 | 212.5 | 190 | 140 | 148 | 4.7 | 7 |
| 80(3") | 78 | 90 | 51.0 | 309 | 230 | 165 | 181 | 4.7 | 7 |
| 100(4") | 101 | 110 | 61.0 | 358 | 274 | 172 | 222 | 4.7 | 7 |



PP-H/UPVC/CPVC PIPE FITTING VALVE



PP-H/UPVC/CPVC PIPE FITTING VALVE

TRUE UNION (DOUBLE UNION) BALL VALVE

雙油任球閥

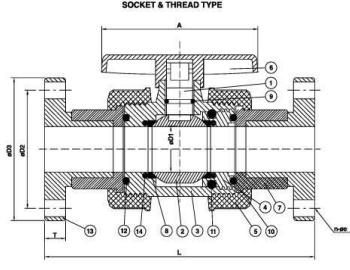
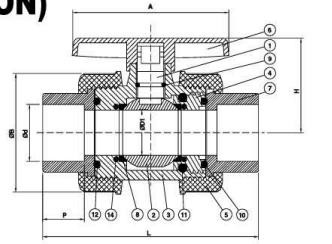
CD100 SOCKET

CD200 THREAD

CD300 FLANGE

Size: 1/2"- 4"

本產品榮獲NSF 14/NSF 61認證合格



MATERIALS OF CONSTRUCTION

| Item | Parts | Pcs | Materials | Item | Parts | Pcs | Materials |
|------|---------------|-----|----------------------|------|---------------------|----------------------------|----------------------|
| 1 | STEM | 1 | UPVC, PP, CPVC, PVDF | 8 | SEAT | 2 | PTFE |
| 2 | BALL | 1 | UPVC, PP, CPVC, PVDF | 9 | SEAT O-RING | (1)..DN15-50 (2)..DN65-100 | EPDM, VITON |
| 3 | BODY | 1 | UPVC, PP, CPVC, PVDF | 10 | SEAT CARRIER O-RING | 1 | EPDM, VITON |
| 4 | SEAT CARRIER | 1 | UPVC, PP, CPVC, PVDF | 11 | BODY O-RING | 1 | EPDM, VITON |
| 5 | UNION NUT | 2 | UPVC, PP, CPVC, PVDF | 12 | SOLID END O-RING | 1 | EPDM, VITON |
| 6 | HANDLE | 1 | ABS | 13 | FLANGE | 2 | UPVC, PP, CPVC, PVDF |
| 7 | END CONNECTOR | 2 | UPVC, PP, CPVC, PVDF | | | | |

DIMENSIONS TABLE

| Nom Size DN (inch) | D1 | D2 | D3 | DIN | | | Unit:mm | | | | | | | | | |
|-----------------------|-----|-----|-----|--------------------|---------|----|---------|------|---------------------------|-----|-----|-----|----|-----|-----|-----------------------------------|
| | | | | d Socket Thread | | Øe | n | P | L Socket Thread Flange | | | A | T | H | B | Test Press kgf/cm ² |
| 15(1/2") | 15 | 65 | 95 | 20 | R1/2" | 14 | 4 | 16.0 | 113 | 151 | 82 | 15 | 51 | 47 | 15 | |
| 20(3/4") | 20 | 75 | 105 | 25 | R3/4" | 14 | 4 | 18.5 | 121 | 131 | 101 | 15 | 64 | 61 | 15 | |
| 25(1") | 25 | 85 | 115 | 32 | R1 | 14 | 4 | 22.0 | 146 | 146 | 190 | 110 | 17 | 70 | 70 | 15 |
| 32(1-1/4") | 38 | 100 | 140 | 40 | R1-1/4" | 18 | 4 | 26.0 | 186 | 186 | 232 | 126 | 17 | 83 | 93 | 15 |
| 40(1-1/2") | 38 | 110 | 150 | 50 | R1-1/2" | 18 | 4 | 31.0 | 186 | 186 | 232 | 126 | 17 | 83 | 93 | 15 |
| 50(2") | 48 | 125 | 165 | 63 | RT2 | 18 | 4 | 37.5 | 197 | 197 | 250 | 152 | 20 | 103 | 113 | 15 |
| 65(2-1/2") | 65 | 145 | 185 | 75 | R2-1/2" | 18 | 4 | 43.5 | 228 | 228 | 282 | 190 | 20 | 140 | 150 | 10 |
| 80(3") | 78 | 160 | 200 | 90 | R3 | 18 | 8 | 51.0 | 270 | 270 | 330 | 230 | 23 | 165 | 184 | 10 |
| 100(4") | 102 | 180 | 220 | 110 | R4 | 18 | 8 | 61.0 | 324 | 324 | 385 | 274 | 23 | 172 | 226 | 10 |

* 本表是以PVC材質為基準 本表試壓值以PVDF材質為基準 PP材質試壓值為本表試壓值之70%

The dimension table is calculably based on PVC material.

The value of test pressure is calculably based on PVC PVDF materials.

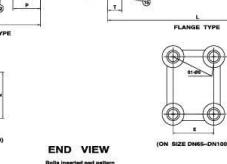
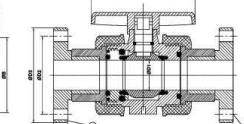
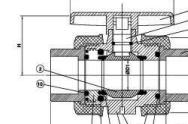
The value of test pressure for PP material is 70% based on this table.

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



MATERIALS OF CONSTRUCTION

| NO. | Parts | Pcs. | Materials | NO. | Parts | Pcs. | Materials |
|-----|---------------|------|----------------------|-----|--------------------------|-------------------------|----------------------|
| 1 | STEM | 1 | UPVC, PP, CPVC, PVDF | 8 | SEAT | 2 | TEFLON |
| 2 | BALL | 1 | UPVC, PP, CPVC, PVDF | 9 | STEM ORING | DN15-50 1 DN65-100 2 | EPDM, VITON |
| 3 | BODY | 1 | UPVC, PP, CPVC, PVDF | 10 | SEAT CARRIER ORING | 1 | EPDM, VITON |
| 4 | SEAT CARRIER | 1 | UPVC, PP, CPVC, PVDF | 11 | BODY ORING | 1 | EPDM, VITON |
| 5 | UNION NUT | 2 | UPVC, PP, CPVC, PVDF | 12 | SOLID END ORING | 1 | EPDM, VITON |
| 6 | HANDLE | 1 | ABS | 14 | MOUNTING PAD (UP & DOWN) | DN15-50 4 DN65-100 8 | BRASS, SUS304 |
| 7 | END CONNECTOR | 2 | UPVC, PP, CPVC, PVDF | 15 | FLANGES | 2 | UPVC, PP, CPVC, PVDF |

DIMENSIONS TABLE

| Nom Size DN (inch) | D1 | D2 | D3 | DIN | | | | | Unit: mm | | | | | | | | | | | |
|-----------------------|-----|-----|-----|-------------|---------|----|---|------|-------------|--------|--------|-------|-------|-------|----|-----|----|-----------|----|--|
| | | | | d Socket | Thread | e | n | p | L Socket | Thread | Flange | H | A | B | T | K | E | S | S1 | Working press (kgf/cm ²) |
| 15(1/2") | 15 | 65 | 95 | 20 | R1/2" | 14 | 4 | 16.0 | 115 | 115 | 152 | 51 | 82 | 53.2 | 15 | 31 | - | 3/16"-24G | 4 | 10 |
| 20(3/4") | 19 | 75 | 105 | 25 | R3/4" | 14 | 4 | 18.5 | 128 | 128 | 163 | 63 | 101.2 | 63 | 15 | 37 | - | 1/4"-20G | 4 | 10 |
| 25(1") | 25 | 85 | 115 | 32 | R1" | 14 | 4 | 22.0 | 144 | 144 | 187 | 72 | 111.8 | 72.2 | 17 | 40 | - | 1/4"-20G | 4 | 10 |
| 32(1-1/4") | 38 | 100 | 140 | 40 | R1-1/4" | 18 | 4 | 26.0 | 183 | 183 | 225 | 86 | 121.4 | 97 | 17 | 55 | - | 5/16"-18G | 4 | 10 |
| 40(1-1/2") | 38 | 110 | 150 | 50 | R1-1/2" | 18 | 4 | 31.0 | 183 | 183 | 232 | 86 | 121.4 | 97 | 19 | 55 | - | 5/16"-18G | 4 | 10 |
| 50(2") | 48 | 120 | 165 | 63 | R2" | 18 | 4 | 37.5 | 202 | 202 | 253 | 100 | 149.3 | 118.9 | 21 | 68 | - | 5/16"-18G | 4 | 10 |
| 65(2-1/2") | 65 | 145 | 185 | 75 | R2-1/2" | 18 | 4 | 43.5 | 228 | 228 | 282 | 140 | 190 | 150.1 | 21 | 80 | 41 | 5/16"-18G | 8 | 7 |
| 80(3") | 78 | 160 | 200 | 90 | R3" | 18 | 8 | 51.0 | 270 | 270 | 327 | 165.1 | 230.1 | 183.9 | 22 | 80 | 41 | 5/16"-18G | 8 | 7 |
| 100(4") | 102 | 180 | 220 | 110 | R4" | 18 | 8 | 61.0 | 324 | 324 | 385 | 172 | 274 | 226 | 22 | 121 | 50 | 5/16"-18G | 8 | 7 |

* 本表是以PVC材質為基準 本表試壓值以PVDF材質為基準 PP材質試壓值為本表試壓值之70%

The dimension table is calculably based on PVC material.

The value of test pressure is calculably based on PVC PVDF materials.

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



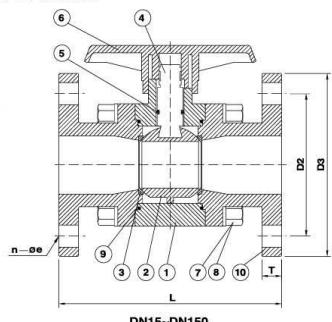
PP-H/UPVC/CPVC PIPE FITTING VALVE

STRONG UNION BALL VALVE

強力型球閥

SOCKET CG100 / THREAD CG200 / FLANGED CG300

Size: DN15-DN150



SPECIFICATIONS:

1. Test Press: ① (15mm-1/2"-65mm-2 1/2") : 15kgf/cm²(222 lb/in²)
 ② (80mm-3"-100mm-4") : 10kgf/cm²(148 lb/in²)
 ③ (125mm-5"-150mm-6") : 5kgf/cm²(75 lb/in²)

2. Working Press: ① (15mm-1/2"-65mm-2 1/2") : 10kgf/cm²(148 lb/in²)
 ② (80mm-3"-100mm-4") : 7kgf/cm²(105 lb/in²)
 ③ (125mm-5"-150mm-6") : 5kgf/cm²(75 lb/in²)

MATERIALS OF CONSTRUCTION

| No. | Parts | Pcs | Materials | No. | Parts | Pcs | Materials | | |
|-----|--------|-----|---------------------|-----|---------------|-----|---------------------------------------|---|---------------------|
| 1 | Body | 1 | UPVC, PP, PPG, PVDF | 6 | Handle | 1 | DN15-100 ABS DN125-150 FC25 | | |
| 2 | Ball | 1 | UPVC, PP, PPG, PVDF | 7 | Bolt | 4 | Steel SUS 304 | | |
| 3 | Seat | 2 | TEFLON | 8 | Nut | 6 | UPVC COATED BRASS, 100-150 SUS 304 | | |
| 4 | Shaft | 1 | UPVC, PP, PPG, PVDF | 9 | Flange O-Ring | 2 | EPDM, VITON | | |
| 5 | O-Ring | 1 | DN15-32 DN40-150 | 2 | EPDM, VITON | 10 | Flange | 2 | UPVC, PP, PPG, PVDF |

DIMENSIONS TABLE

| Standards Nom. Size DN(inch) | JIS | | | | ANSI | | | | DIN | | | | | | | | | |
|------------------------------------|-----|-----|------------|---------|------|----|------------|---------|-------|----|------------|---------|-----|-----|-----|---|----|----|
| | D3 | D2 | L | Unit:mm | D3 | D2 | L | Unit:mm | D3 | D2 | L | Unit:mm | | | | | | |
| | | | Flange end | n | | | Flange end | n | | | Flange end | n | | | | | | |
| 15(1/2") | 95 | 70 | 142 | 4 | 15 | 13 | 3.50 | 2.38 | 5.59 | 4 | 0.63 | 0.51 | 95 | 65 | 142 | 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 | 170 | 4 | 19 | 16 | 4.25 | 3.13 | 6.69 | 4 | 0.67 | 0.63 | 115 | 85 | 170 | 4 | 14 | 16 |
| 32(1 1/4") | 135 | 100 | 170 | 4 | 19 | 16 | 4.62 | 3.50 | 6.69 | 4 | 0.71 | 0.63 | 140 | 100 | 170 | 4 | 18 | 16 |
| 40(1 1/2") | 140 | 105 | 184 | 4 | 19 | 18 | 5.00 | 3.88 | 7.24 | 4 | 0.71 | 0.71 | 150 | 110 | 184 | 4 | 18 | 18 |
| 50(2") | 155 | 120 | 192 | 4 | 19 | 18 | 6.00 | 4.74 | 7.56 | 4 | 0.67 | 0.71 | 165 | 125 | 192 | 4 | 18 | 18 |
| 65(2 1/2") | 175 | 140 | 216 | 4 | 19 | 20 | 7.00 | 5.49 | 8.50 | 4 | 0.75 | 0.78 | 185 | 145 | 216 | 4 | 18 | 20 |
| 80(3") | 185 | 150 | 245 | 8 | 19 | 20 | 7.50 | 6.00 | 9.64 | 4 | 0.75 | 0.78 | 200 | 160 | 245 | 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 | 395 | 8 | 23 | 24 | 10.00 | 8.50 | 15.55 | 8 | 0.87 | 0.94 | 250 | 210 | 395 | 8 | 18 | 24 |
| 150(6") | 280 | 240 | 395 | 8 | 23 | 24 | 11.00 | 9.50 | 15.55 | 8 | 0.87 | 0.94 | 280 | 240 | 395 | 8 | 23 | 24 |

*本表尺寸以UPVC材質為基準 本表試壓值是以UPVC PVDF材質為基礎 PP材質試壓值為本表試壓值之70%

** The dimension table is calculably based on UPVC material.

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

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

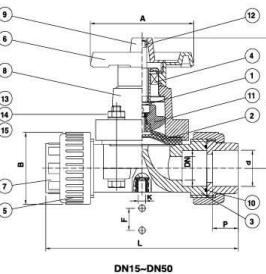


PP-H/UPVC/CPVC PIPE FITTING VALVE

TRUE UNION DIAPHRAGM VALVE

油任式隔膜閥（插管式、牙口式）

DF100 SOCKET / DF200 THREAD



TORQUE VALUE(扭力值)

| SIZE | Kg.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/(1bf/in ²) ^{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, TEFLO | 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 | | | | |

DIMENSIONS TABLE

| Standard Nom. Size DN(mm) | JIS | | | | ANSI | | | | DIN | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------|-----|---------|------|-----|------|---------|-----|----|------|---------|----|------|---------|-------|-------|-------|-------|-------|-------|-------|-----|-----|----|--------|------|-----|-----|-----|-----|----|------|---|----|
| | d | Unit:mm | | | d | Unit:mm | | | d | Unit:mm | | | | | | | | | | | | | | | | | | | | | | | |
| | | P | B | L | | H | A | F | | P | B | L | | | | | | | | | | | | | | | | | | | | | |
| 15(1/2") | 22 | PT1/2 | 22.2 | 54 | 166 | 104 | 81 | 25 | 5/8" | 7 | 10 | 0.84 | NPT1/2 | 0.875 | 2.126 | 6.53 | 4.094 | 3.189 | 0.964 | 5/16" | 104 | 148 | 29 | R1/2 | 16.0 | 54 | 166 | 104 | 81 | 25 | 5/8" | 7 | 10 |
| 20(3/4") | 26 | PT3/4 | 25.4 | 54 | 166 | 104 | 81 | 25 | 5/8" | 7 | 10 | 1.05 | NPT3/4 | 1.000 | 2.126 | 6.53 | 4.094 | 3.189 | 0.964 | 5/16" | 104 | 148 | 25 | R1/4 | 18.5 | 54 | 166 | 104 | 81 | 25 | 5/8" | 7 | 10 |
| 25(1") | 32 | PT1 | 28.6 | 63 | 183 | 116 | 91 | 25 | 5/8" | 7 | 10 | 1.32 | NPT1 | 1.125 | 2.480 | 7.2 | 4.567 | 3.953 | 0.964 | 5/16" | 104 | 148 | 32 | R1 | 22.0 | 63 | 183 | 116 | 91 | 25 | 5/8" | 7 | 10 |
| 32(1 1/4") | 38 | PT1/14 | 31.8 | 89 | 236 | 142 | 117 | 45 | 5/8" | 7 | 10 | 1.66 | NPT1/14 | 1.250 | 3.5 | 9.37 | 5.591 | 4.606 | 1.772 | 5/16" | 104 | 148 | 40 | R1-1/4 | 26.0 | 89 | 238 | 142 | 117 | 45 | 5/8" | 7 | 10 |
| 40(1 1/2") | 48 | PT1/12 | 34.9 | 89 | 236 | 142 | 117 | 45 | 5/8" | 7 | 10 | 1.90 | NPT1/12 | 1.375 | 3.5 | 9.37 | 5.591 | 4.606 | 1.772 | 5/16" | 104 | 148 | 58 | R1-1/2 | 31.0 | 89 | 238 | 142 | 117 | 45 | 5/8" | 7 | 10 |
| 50-2" | 60 | PT2 | 38.1 | 101 | 273 | 176 | 150 | 45 | 5/8" | 7 | 10 | 2.38 | NPT2 | 1.600 | 3.97 | 10.74 | 6.929 | 5.906 | 1.772 | 5/16" | 104 | 148 | 63 | R2 | 37.5 | 101 | 273 | 176 | 150 | 45 | 5/8" | 7 | 10 |

※ Standard dimensions based on PVC material



PP-H/UPVC/CPVC PIPE FITTING VALVE



PP-H/UPVC/CPVC PIPE FITTING VALVE

DIAPHRAGM VALVE / Flanged type

隔膜凡而(法蘭式)

DF300

Size: DN15~DN250



MATERIALS OF CONSTRUCTION

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

Note: 1. SUS 304.....Stainless Steel AISI 304
4. FC 20.....Grav Cast Iron
5. SUP.....Steel for Spring ASTM A-230-68

3. BSBMFree Cutting Brass Bar

*第3 - 5 - 6 - 12 - 14項材質請用SUS-304或SUS-316等特殊規格。備標另計。
*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 PPG/ bonnet material for PPG diaphragm valve.
Optional materials on request for part no. 4.5.6.12.14.: SUS 304 or SUS 316.

©VITTON & TEFLON are trademarks of E.I. Du Pont

DIMENSIONS TABLE

| Nom. Size mm(inch) | JIS | | | | | | PRESS Test for Assembly (at 20°C) | | | | | | | | | | | | | |
|-----------------------|----------------------|-----|-----|----|----|-------|-----------------------------------|-----------|-----|----|-----|-----|----|----|----|----|---|---|----|---|
| | Unit: mm | | | | | | Test Pressure Unit: kg/cm² | | | | | | | | | | | | | |
| | n No. of holes | D1 | D2 | D3 | e | D4 | D5 | Lift ℓ | L | T | H | I | | | | | | | | |
| 15(1/2") | 16 | 70 | 95 | 15 | 4 | 59x53 | 94 | 13 | 110 | 15 | 101 | 140 | 10 | 10 | 10 | 10 | 7 | 7 | 10 | 7 |
| 20(3/4") | 20 | 75 | 100 | 15 | 4 | 74x63 | 94 | 13 | 120 | 16 | 106 | 152 | 10 | 10 | 10 | 10 | 7 | 7 | 10 | 7 |
| 25(1") | 25 | 90 | 125 | 19 | 4 | 80x66 | 94 | 14 | 130 | 16 | 113 | 158 | 10 | 10 | 10 | 10 | 7 | 7 | 10 | 7 |
| 40(1-1/2") | 41 | 105 | 140 | 19 | 4 | 126 | 147 | 24 | 180 | 17 | 133 | 193 | 10 | 10 | 10 | 10 | 7 | 7 | 7 | 7 |
| 50(2") | 52 | 120 | 155 | 19 | 4 | 148 | 147 | 28 | 210 | 17 | 145 | 210 | 10 | 10 | 10 | 10 | 7 | 7 | 7 | 7 |
| 65(2-1/2") | 68 | 140 | 175 | 19 | 4 | 190 | 202 | 32 | 250 | 22 | 197 | 276 | 10 | 10 | 10 | 10 | 7 | 7 | 7 | 7 |
| 80(3") | 78 | 150 | 185 | 19 | 8 | 215 | 202 | 34 | 280 | 22 | 218 | 293 | 10 | 10 | 10 | 10 | 6 | 6 | 6 | 6 |
| 100(4") | 100 | 175 | 210 | 19 | 8 | 255 | 241 | 54 | 340 | 22 | 261 | 370 | 10 | 10 | 10 | 10 | 6 | 6 | 6 | 6 |
| 125(5") | 125 | 210 | 250 | 23 | 8 | 320 | 274 | 72 | 410 | 24 | 308 | 412 | 7 | 7 | 7 | 7 | 5 | 4 | 5 | 5 |
| 150(6") | 148 | 240 | 280 | 23 | 8 | 385 | 395 | 72 | 480 | 30 | 334 | 471 | 7 | 7 | 7 | 7 | 5 | 4 | 5 | 5 |
| 200(8") | 198 | 290 | 330 | 23 | 12 | 490 | 395 | 98 | 570 | 30 | 419 | 625 | 4 | 4 | 4 | 4 | 3 | 3 | 3 | 3 |
| 250(10") | 248 | 355 | 400 | 25 | 12 | 540 | 555 | 132 | 680 | 32 | 510 | 750 | 4 | 3 | 4 | 4 | 3 | 3 | 3 | 3 |

CV VALUE

CV值 [GMP/(1bf/in)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

8" 702

10" —

BOLTS TORQUE VALUE

SIZE Kg.cm N.m

1/2" 90 8.83

3/4" 110 10.79

1" 110 10.79

1-1/2" 150 14.72

2" 220 21.58

2-1/2" 220 21.58

3" 280 27.47

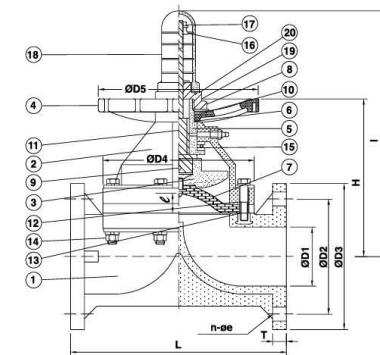
4" 280 27.47

6" 280 27.47

8" 280 27.47

10" 280 27.47

1kg.cm = 0.0981N.m





PP-H/UPVC/CPVC PIPE FITTING VALVE



PP-H/UPVC/CPVC PIPE FITTING VALVE

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

通用型蝶閥



BE300

Size: 2"- 8"

End Type: Flanged

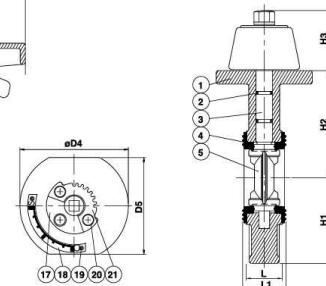
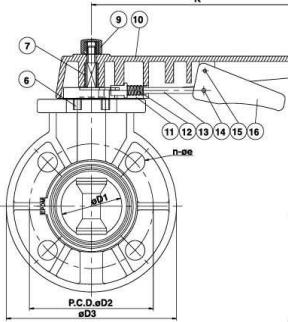
Test Pressure: 225 PSI

Working Pressure: 150 PSI

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

MATERIALS OF CONSTRUCTION

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



DN50~DN200

The Torque Values

| Size | 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

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

| Nom. size DN(inch) | ANSI | | | | | | | | | | | Unit: inch | |
|-----------------------|------|-------|-------|---|------|------|------|------|------|------|-------|------------|------|
| | D1 | D2 | D3 | n | L | L1 | D4 | H1 | H2 | H3 | I | K | D5 |
| 50(2") | 2.16 | 4.84 | 6.46 | 4 | 1.50 | 1.61 | 4.13 | 3.23 | 4.21 | 2.48 | 9.92 | 8.03 | 3.66 |
| 80(3") | 3.07 | 5.97 | 7.72 | 4 | 1.65 | 1.77 | 5.00 | 3.86 | 4.84 | 2.48 | 11.18 | 8.03 | 3.74 |
| 100(4") | 3.94 | 7.16 | 8.85 | 8 | 1.89 | 2.00 | 5.27 | 4.43 | 5.49 | 2.68 | 12.60 | 9.96 | 3.94 |
| 150(6") | 5.98 | 9.44 | 11.26 | 8 | 2.20 | 2.13 | 6.69 | 9.63 | 7.00 | 3.39 | 16.02 | 11.69 | 3.98 |
| 200(8") | 7.87 | 11.70 | 13.54 | 8 | 2.40 | 2.52 | 7.52 | 6.77 | 8.35 | 3.39 | 18.50 | 11.69 | 4.31 |

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

* Standard dimensions based on UPVC material



PP-H/UPVC/CPVC
PIPE FITTING VALVE



PP-H/UPVC/CPVC
PIPE FITTING VALVE

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.



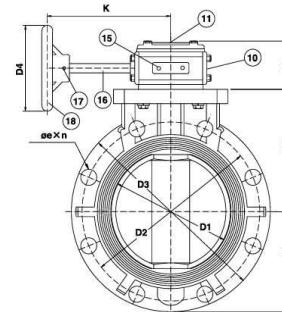
MATERIALS OF CONSTRUCTION

| No. | Parts | Pcs. | Materials | No. | Parts | Pcs. | Materials |
|-----|----------------|------|--------------------------|-----|-----------------|------|-----------------|
| 1 | Body | 1 | UPVC, PP,CPVC, PPG, PVDF | 11 | Indicator | 1 | PVC |
| 2 | Seat | 1 | EPDM, VTON, NBR, HYALON | 12 | Gear | 1 | FCD45 |
| 3 | Disc | 1 | UPVC, PP,CPVC, PPG, PVDF | 13 | Oil Seal | 1 | EPDM |
| 4 | Disc O'ring(A) | 2 | EPDM, VTON | 14 | Bearing | 1 | SMCM220/420/810 |
| 5 | Disc O'ring(B) | 2 | EPDM, VTON | 15 | Adjustable Bolt | 2 | SS41 |
| 6 | Stem | 1 | SUS410, SUS304, SUS316 | 16 | Gearing | 1 | SS41 |
| 7 | Stem O'ring | 2 | EPDM, VTON | 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 | | | | |

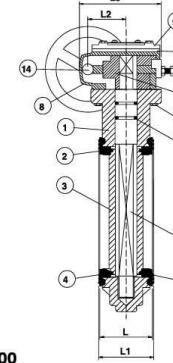
Torque Values (1kg.m=9.81N.m)

| BF-V'S Size | Torque Under Without Any Water Pressure (kgf.m) | | | Under Water Test Pressure(Kg/cm²) | | |
|-------------|---|-------------------|--------------------|-----------------------------------|-------------------|--------------------|
| | Water Pressure(Kg/cm²) | Open Torque(Kgfm) | Close Torque(Kgfm) | Water Pressure(Kg/cm²) | Open Torque(Kgfm) | Close Torque(Kgfm) |
| 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(Kg/cm²) | Open Torque(Kgfm) | Close Torque(Kgfm) | Water Pressure(Kg/cm²) | Open Torque(Kgfm) | Close Torque(Kgfm) |
| 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

| Nom. Size DN(inch) | JIS | | | | | | | | | | | | Unit: mm | | | | |
|--------------------|-----|-----|----|----|-----|-----|-----|-----|-----|-----|-------|-----|----------|-------|---------------------------|------------------------------|------|
| | D1 | D2 | n | øe | D3 | L | L1 | H1 | H2 | H3 | K | L2 | L3 | D4 | Test Press Body (kgf/cm²) | Working Press Seat (kgf/cm²) | |
| 200(8") | 203 | 290 | 12 | 23 | 337 | 76 | 87 | 168 | 204 | 69 | 178 | 51 | 136 | 178 | 15.0 | 12.0 | 10.0 |
| 250(10") | 255 | 355 | 12 | 25 | 400 | 96 | 111 | 200 | 235 | 69 | 178 | 51 | 136 | 178 | 15.0 | 12.0 | 10.0 |
| 300(12") | 312 | 400 | 16 | 25 | 483 | 116 | 132 | 236 | 289 | 103 | 216 | 72 | 189 | 305 | 10.5 | 8.5 | 7.0 |
| 350(14") | 355 | 445 | 16 | 25 | 520 | 116 | 132 | 259 | 305 | 103 | 216 | 72 | 189 | 305 | 10.5 | 8.5 | 7.0 |
| 400(16") | 398 | 510 | 16 | 27 | 600 | 153 | 169 | 302 | 353 | 103 | 232 | 72 | 189 | 355.6 | 9.0 | 7.0 | 6.0 |
| 450(18") | 451 | 565 | 20 | 27 | 640 | 166 | 181 | 317 | 365 | 121 | 280.2 | 116 | 285 | 460.4 | 7.5 | 6.0 | 5.0 |
| 500(20") | 500 | 620 | 20 | 27 | 711 | 171 | 190 | 365 | 405 | 121 | 318.8 | 116 | 285 | 457.2 | 5.0 | 4.0 | 3.5 |
| 600(24") | 600 | 730 | 24 | 33 | 813 | 191 | 209 | 425 | 460 | 121 | 330 | 116 | 285 | 508 | 5.0 | 4.0 | 3.5 |

| Nom. Size DN(inch) | ANSI | | | | | | | | | | | | Unit:inch | | | | |
|--------------------|-------|-------|----|------|-------|------|------|-------|-------|------|-------|------|-----------|------|--------------------------|-----------------------------|-----|
| | D1 | D2 | n | øe | D3 | L | L1 | H1 | H2 | H3 | K | L2 | L3 | D4 | Test Press Body (lb/in²) | Working Press Seat (lb/in²) | |
| 200(8") | 7.99 | 11.75 | 8 | 0.88 | 13.27 | 2.99 | 3.43 | 6.61 | 8.03 | 2.72 | 7.01 | 2.01 | 5.35 | 7.01 | 222 | 177 | 150 |
| 250(10") | 10 | 14.25 | 12 | 0.98 | 15.75 | 3.78 | 4.37 | 7.87 | 9.25 | 2.72 | 7.01 | 2.01 | 5.35 | 7.01 | 222 | 177 | 150 |
| 300(12") | 12.28 | 17.00 | 12 | 0.98 | 19.02 | 4.57 | 5.20 | 9.41 | 11.38 | 4.05 | 8.50 | 2.83 | 7.44 | 12 | 150 | 125 | 105 |
| 350(14") | 13.97 | 18.75 | 12 | 1.14 | 20.47 | 4.57 | 5.20 | 10.20 | 12.01 | 4.05 | 8.50 | 2.83 | 7.44 | 12 | 150 | 125 | 105 |
| 400(16") | 15.69 | 21.25 | 16 | 1.14 | 23.62 | 6.02 | 6.65 | 11.89 | 13.90 | 4.05 | 8.78 | 2.83 | 7.44 | 14 | 133 | 103 | 88 |
| 450(18") | 17.75 | 22.75 | 16 | 1.26 | 25.20 | 6.54 | 7.13 | 12.48 | 14.37 | 4.76 | 11.03 | 4.57 | 11.22 | 16 | 111 | 88 | 74 |
| 500(20") | 19.70 | 25.00 | 20 | 1.26 | 27.99 | 6.73 | 7.48 | 14.37 | 15.94 | 4.76 | 12.55 | 4.57 | 11.22 | 18 | 74 | 59 | 52 |
| 600(24") | 23.66 | 29.50 | 20 | 1.38 | 32.00 | 7.52 | 8.23 | 16.73 | 18.11 | 4.76 | 12.99 | 4.57 | 11.22 | 20 | 74 | 59 | 52 |

| Nom. Size DN(inch) | DIN | | | | | | | | | | | | Unit: mm | | | | |
|--------------------|-----|-----|----|----|-----|-----|-----|-----|-----|-----|-------|-----|----------|-------|---------------------------|------------------------------|------|
| | D1 | D2 | n | øe | D3 | L | L1 | H1 | H2 | H3 | K | L2 | L3 | D4 | Test Press Body (kgf/cm²) | Working Press Seat (kgf/cm²) | |
| 200(8") | 203 | 295 | 8 | 23 | 337 | 76 | 87 | 168 | 204 | 69 | 178 | 51 | 136 | 178 | 15.0 | 12.0 | 10.0 |
| 250(10") | 255 | 350 | 12 | 25 | 400 | 96 | 111 | 200 | 235 | 69 | 178 | 51 | 136 | 178 | 15.0 | 12.0 | 10.0 |
| 300(12") | 312 | 400 | 12 | 25 | 483 | 116 | 132 | 239 | 289 | 103 | 216 | 72 | 189 | 305 | 10.5 | 8.5 | 7.0 |
| 350(14") | 355 | 460 | 16 | 25 | 520 | 116 | 132 | 259 | 305 | 103 | 216 | 72 | 189 | 305 | 10.5 | 8.5 | 7.0 |
| 400(16") | 398 | 515 | 16 | 27 | 600 | 153 | 169 | 302 | 353 | 103 | 232 | 72 | 189 | 355.6 | 9.0 | 7.0 | 6.0 |
| 450(18") | 451 | 565 | 20 | 27 | 640 | 166 | 181 | 317 | 365 | 121 | 280.2 | 116 | 285 | 460.4 | 7.5 | 6.0 | 5.0 |
| 500(20") | 500 | 620 | 20 | 27 | 711 | 171 | 190 | 365 | 405 | 121 | 318.8 | 116 | 285 | 457.2 | 5.0 | 4.0 | 3.5 |
| 600(24") | 600 | 725 | 20 | 30 | 813 | 191 | 209 | 425 | 460 | 121 | 330 | 116 | 285 | 508 | 5.0 | 4.0 | 3.5 |

* Standard dimensions based on UPVC material



PP-H/UPVC/CPVC PIPE FITTING VALVE



PP-H/UPVC/CPVC PIPE FITTING VALVE

SUPER LARGE SIZED BUTTERFLY VALVE

超大型旋轉凡而



BS300

Size: Ø700(28")~Ø1200(48")

MATERIAL: UPVC, PP, CPVC, PPG, PVDF

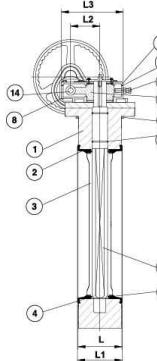
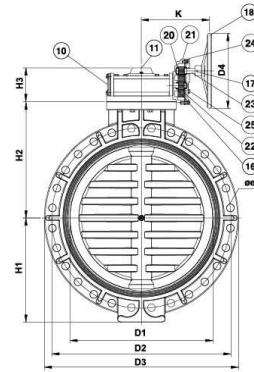
MODEL: Gear operated type(齒輪式) · Chaining type(鏈條式)
Hydraulic type(油壓式) · Pneumatic type(氣壓式)

FEATURES:

- Fullport allowing max. fluid flow. 全口徑、流量足。
- ECONOMIC EQUIPMENT: Fluid control plate concealed in piping system, space saved, 設備經濟、控制流量的活版、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 & alk 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 | 19 | Tightening Bolt | 4 | SUS304 |
| 7 | Stern O'ring | 2 | EPDM, VITON | 20 | Bearing | 4 | COPPER |
| 8 | Gear Box | 1 | CAST IRON | 21 | SPUR GEAR BODY | 1 | CAST IRON |
| 9 | Gear Box Cap | 1 | CAST IRON | 22 | SPUR GEAR | 1 | STEEL |
| 10 | Side Cap | 1 | CAST IRON | 23 | SPUR GEAR SHAFT | 1 | STEEL |
| 11 | Indicator Plate | 1 | CAST IRON | 24 | SPUR GEAR COVER | 1 | CAST IRON |
| 12 | Gear | 1 | DUCTILE IRON | 25 | BOLT | 6 | STEEL |
| 13 | Oil Seal | 1 | PAPER | | | | |



DIMENSIONS TABLE

| Nom. size DN(inch) | JIS | | | | | | | | | | | Test Press (kgf/cm ²) | Working Press (kgf/cm ²) | |
|-----------------------|------|------|------|----|----|-----|-----|-----|-----|-----|-----|--------------------------------------|---|---|
| | D1 | D2 | D3 | n | e | H1 | H2 | H3 | K | D4 | L | L1 | | |
| 700(28") | 680 | 840 | 928 | 24 | 33 | 499 | 563 | 125 | 306 | 406 | 200 | 206 | 7 | 5 |
| 800(32") | 780 | 950 | 1060 | 28 | 33 | 565 | 630 | 142 | 370 | 406 | 234 | 244 | 7 | 5 |
| 900(36") | 870 | 1050 | 1178 | 28 | 33 | 624 | 694 | 142 | 370 | 406 | 234 | 245 | 7 | 5 |
| 1000(40") | 970 | 1160 | 1286 | 28 | 39 | 684 | 762 | 210 | 471 | 508 | 294 | 301 | 7 | 5 |
| 1100(44") | 1070 | 1275 | 1403 | 28 | 39 | 712 | 823 | 210 | 471 | 508 | 294 | 301 | 6 | 4 |
| 1200(48") | 1170 | 1380 | 1512 | 32 | 39 | 776 | 876 | 210 | 471 | 508 | 294 | 301 | 6 | 4 |

| Nom. size DN(inch) | ANSI | | | | | | | | | | | Test Press (lb/in ²) | Working Press (lb/in ²) | |
|-----------------------|-------|-------|-------|----|------|-------|-------|------|-------|----|-------|-------------------------------------|--|----|
| | D1 | D2 | D3 | n | e | H1 | H2 | H3 | K | D4 | L | L1 | | |
| 700(28") | 26.77 | 33.99 | 36.54 | 24 | 1.37 | 19.65 | 22.17 | 4.90 | 12.04 | 16 | 7.87 | 8.11 | 100 | 75 |
| 800(32") | 30.70 | 38.50 | 41.73 | 24 | 1.61 | 22.24 | 24.80 | 5.59 | 14.58 | 16 | 9.21 | 9.64 | 100 | 75 |
| 900(36") | 34.25 | 42.75 | 46.38 | 32 | 1.62 | 24.57 | 27.32 | 5.59 | 14.58 | 16 | 9.21 | 9.64 | 100 | 75 |
| 1000(40") | 38.18 | 46.25 | 50.63 | 32 | 1.62 | 26.93 | 30.00 | 8.27 | 18.54 | 20 | 11.57 | 11.85 | 100 | 75 |
| 1100(44") | 42.12 | 51.75 | 55.25 | 40 | 1.62 | 28.03 | 32.48 | 8.27 | 18.54 | 20 | 11.57 | 11.85 | 90 | 60 |
| 1200(48") | 46.06 | 56.00 | 59.52 | 44 | 1.62 | 30.55 | 34.48 | 8.27 | 18.54 | 20 | 11.57 | 11.85 | 90 | 60 |

| Nom. size DN(inch) | DIN | | | | | | | | | | | Test Press (kgf/cm ²) | Working Press (kgf/cm ²) | |
|-----------------------|------|------|------|----|----|-----|-----|-----|-----|-----|-----|--------------------------------------|---|---|
| | D1 | D2 | D3 | n | e | H1 | H2 | H3 | K | D4 | L | L1 | | |
| 700(28") | 680 | 840 | 928 | 24 | 30 | 499 | 563 | 125 | 306 | 406 | 200 | 206 | 7 | 5 |
| 800(32") | 780 | 950 | 1060 | 24 | 33 | 565 | 630 | 142 | 370 | 406 | 234 | 244 | 7 | 5 |
| 900(36") | 870 | 1050 | 1178 | 28 | 33 | 624 | 694 | 142 | 370 | 406 | 234 | 245 | 7 | 5 |
| 1000(40") | 970 | 1175 | 1286 | 28 | 36 | 684 | 762 | 210 | 471 | 508 | 294 | 301 | 7 | 5 |
| 1100(44") | 1070 | - | 1403 | - | - | 712 | 823 | 210 | 471 | 508 | 294 | 301 | 6 | 4 |
| 1200(48") | 1170 | - | 1512 | 32 | 39 | 776 | 876 | 210 | 471 | 508 | 294 | 301 | 6 | 4 |



PP-H/UPVC/CPVC
PIPE FITTING VALVE



PP-H/UPVC/CPVC
PIPE FITTING VALVE

CHECK VALVE/ HORIZONTAL TYPE

擺動逆止球閥凡而/橫式

JW300

SIZE: 1"-8"

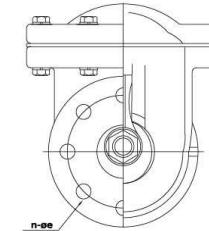
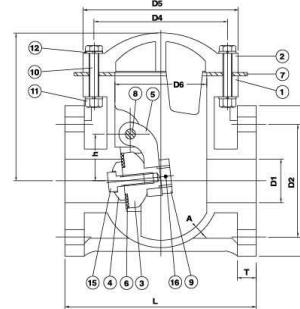
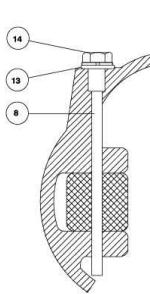


MATERIALS OF CONSTRUCTION

| No. | Parts | Pcs. | Materials | No. | Parts | Pcs. | Materials |
|-----|---------------------|------|---------------------------|-----|--------------|-------------------------|--------------------|
| 1 | Body | 1 | UPVC, PP, CPVC, PPG, PVDF | 9 | Disc Holder | 1 | PP, PVDF |
| 2 | Bonnet | 1 | UPVC, CPVC, PPG, PVDF | 10 | Bolts | 6... | DN15-50 SUS304 |
| 3 | Disc | 1 | UPVC, PP, CPVC, PPG, PVDF | 11 | Nuts | 8... | DN85-125 SUS304 |
| 4 | Sheet Gasket Holder | 1 | UPVC, PP, CPVC, PPG, PVDF | 12 | Washers | 10... 12... DN200 | SUS304 |
| 5 | Swing Arms | 1 | UPVC, PP, CPVC, PPG, PVDF | 13 | O-ring | 1 | EPDM, VITON |
| 6 | Disc Gasket | 1 | EPDM, VITON, TEFILON | 14 | Shaft Holder | 1 | PVDF |
| 7 | Bonnet Gasket | 1 | EPDM, VITON, TEFILON | 15 | Set Bolts | 1 | PVDF |
| 8 | Shoft | 1 | PP, PVDF | 16 | Set Pin | 1 | PVDF |

DIMENSIONS TABLE

| Nom. Size DN-Inch | JIS | | | | | | | | | | | | Test Press (kgf/cm²) | Working Press (kgf/cm²) | Unit: mm | |
|----------------------|-----|-----|-----|----|----------------------|-----|-----|-----|-----|----|----|-----|-------------------------|-------------------------------|----------|---|
| | D1 | D2 | D3 | e | n No. of holes | D4 | D5 | D6 | L | T | A | h | H | D | | |
| 25(1") | 25 | 90 | 125 | 19 | 4 | 110 | 130 | 75 | 160 | 15 | 6 | 40 | 120 | 8 | 10 | 7 |
| 40(1-1/2") | 41 | 105 | 140 | 19 | 4 | 125 | 145 | 85 | 180 | 18 | 8 | 45 | 138 | 8 | 10 | 7 |
| 50(2") | 52 | 120 | 165 | 19 | 4 | 155 | 180 | 105 | 200 | 18 | 8 | 55 | 164 | 10 | 10 | 7 |
| 65(2-1/2") | 80 | 140 | 175 | 19 | 4 | 181 | 205 | 130 | 260 | 20 | 9 | 70 | 171 | 12 | 10 | 7 |
| 80(3") | 80 | 150 | 185 | 19 | 8 | 181 | 205 | 130 | 260 | 20 | 9 | 70 | 171 | 12 | 10 | 7 |
| 100(4") | 100 | 175 | 210 | 19 | 8 | 235 | 265 | 170 | 300 | 24 | 10 | 90 | 213 | 16 | 7 | 5 |
| 125(5") | 125 | 210 | 250 | 23 | 8 | 285 | 330 | 210 | 350 | 24 | 14 | 110 | 238 | 18 | 7 | 5 |
| 150(6") | 150 | 240 | 280 | 23 | 8 | 330 | 370 | 250 | 400 | 30 | 16 | 135 | 268 | 20 | 7 | 5 |
| 200(8") | 200 | 290 | 330 | 23 | 12 | 390 | 425 | 300 | 500 | 30 | 18 | 170 | 306 | 20 | 7 | 5 |



DN25~DN200

DIMENSIONS TABLE

| Nom. Size DN-Inch | ANSI | | | | | | | | | | | | Test Press (lb/in²) | Working Press (lb/in²) | Unit: Inch | |
|----------------------|------|-------|-------|------|----------------------|-------|-------|-------|-------|------|------|------|------------------------|------------------------------|------------|-----|
| | D1 | D2 | D3 | e | n No. of holes | D4 | D5 | D6 | L | T | A | h | H | D | | |
| 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 | 4.72 | 0.31 | 150 | 100 |
| 40(1-1/2") | 1.63 | 3.88 | 5.51 | 0.63 | 4 | 4.94 | 5.72 | 3.34 | 7.09 | 0.70 | 0.31 | 1.78 | 5.44 | 0.31 | 150 | 100 |
| 50(2") | 2.06 | 4.75 | 6.10 | 0.75 | 4 | 6.09 | 7.09 | 4.13 | 7.86 | 0.70 | 0.31 | 2.16 | 6.64 | 0.41 | 150 | 100 |
| 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 | 6.72 | 0.47 | 150 | 100 |
| 80(3") | 3.15 | 6.00 | 7.28 | 0.75 | 4 | 7.13 | 8.06 | 5.13 | 10.25 | 0.79 | 0.35 | 2.75 | 6.72 | 0.47 | 150 | 100 |
| 100(4") | 3.94 | 7.50 | 8.26 | 0.75 | 8 | 9.25 | 10.44 | 6.69 | 11.82 | 0.94 | 0.39 | 3.53 | 8.38 | 0.63 | 100 | 70 |
| 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 | 9.38 | 0.72 | 100 | 70 |
| 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 | 10.56 | 0.78 | 100 | 70 |
| 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 | 12.06 | 0.78 | 100 | 70 |

| Nom. Size DN-Inch | DIN | | | | | | | | | | | | Test Press (kgf/cm²) | Working Press (kgf/cm²) | Unit: mm | |
|----------------------|-----|-----|-----|----|----------------------|-----|-----|-----|-----|----|----|-----|-------------------------|-------------------------------|----------|---|
| | D1 | D2 | D3 | e | n No. of holes | D4 | D5 | D6 | L | T | A | h | H | D | | |
| 25(1") | 25 | 85 | 125 | 14 | 4 | 110 | 130 | 75 | 160 | 15 | 6 | 40 | 120 | 8 | 10 | 7 |
| 40(1-1/2") | 41 | 110 | 140 | 18 | 4 | 125 | 145 | 85 | 180 | 18 | 8 | 45 | 138 | 8 | 10 | 7 |
| 50(2") | 52 | 125 | 155 | 18 | 4 | 155 | 180 | 105 | 200 | 18 | 8 | 55 | 164 | 10 | 10 | 7 |
| 65(2-1/2") | 80 | 145 | 175 | 18 | 4 | 181 | 205 | 130 | 260 | 20 | 9 | 70 | 171 | 12 | 10 | 7 |
| 80(3") | 80 | 160 | 185 | 18 | 8 | 181 | 205 | 130 | 260 | 20 | 9 | 70 | 171 | 12 | 10 | 7 |
| 100(4") | 100 | 180 | 210 | 18 | 8 | 235 | 265 | 170 | 300 | 24 | 10 | 90 | 213 | 16 | 7 | 5 |
| 125(5") | 125 | 210 | 250 | 23 | 8 | 285 | 330 | 210 | 350 | 24 | 14 | 110 | 238 | 18 | 7 | 5 |
| 150(6") | 150 | 240 | 280 | 23 | 8 | 330 | 370 | 250 | 400 | 30 | 16 | 135 | 268 | 20 | 7 | 5 |
| 200(8") | 200 | 295 | 330 | 23 | 8 | 390 | 425 | 300 | 500 | 30 | 18 | 170 | 306 | 20 | 7 | 5 |

* Standard dimensions based on UPVC material



**PP-H/UPVC/CPVC
PIPE FITTING VALVE**



**PP-H/UPVC/CPVC
PIPE FITTING VALVE**

BALL CHECK VALVE(VERTICAL TYPE)

球型逆止阀(直式)

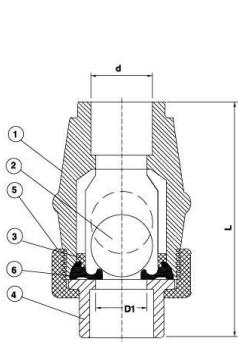
SOCKET JB100 / THREAD JB200 / FLANGED JB300

SIZE: 1/2"-10"

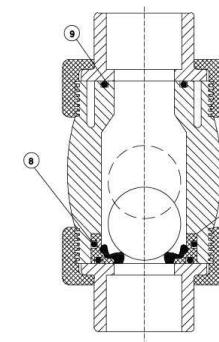


MATERIALS OF CONSTRUCTION

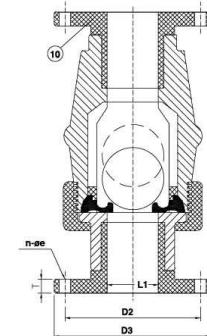
| No. | Parts | Pcs. | Materials |
|-----|------------------------------|-------------------------------|--------------------|
| 1 | Body | 1 | UPVC,PP,CPVC,PVDF |
| 2 | Ball | 1 | UPVC,PPG,CPVC,PVDF |
| 3 | Washer | 1 | UPVC,PP,CPVC,PVDF |
| 4 | End Connector | 1...DN15-50 2...DN65-100 | UPVC,PP,CPVC,PVDF |
| 5 | Union Nut | 1...DN15-50 2...DN65-100 | UPVC,PP,CPVC,PVDF |
| 6 | Seat | 1 | EPDM,VITON |
| 7 | Seat Carrier | 1 | UPVC,PP,CPVC,PVDF |
| 8 | Seat Carrier O'ring | 1 | EPDM,VITON |
| 9 | Solid End O'ring | 1 | EPDM,VITON |
| 10 | Flanged End | 2...DN15-100 1...DN150-250 | UPVC,PP,CPVC,PVDF |
| 11 | Reinforcement Plate | 4...DN150 8...DN250 | SUS304(150A-250A) |
| 12 | Bolts on Reinforcement Plate | 10...DN150 20...DN250 | SUS304 |



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



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



FLANGED
15A(1/2")~250A(10")

DIMENSIONS TABLE

| T | JIS | | | | | | ANSI | | | | | | DIN | | | | | | DIN | | | | | | | | | | | | | | |
|----------|-----|----|-----|-----|-----|-------|--------|--------|-----|-----|------|------|-----|-------|--------|--------|--------|------|-------|-------|-------|------|-----|--------|--------|--------|-----|----|----|-----|-----|-----|----|
| | d | | | L | | | d | | | L | | | d | | | L | | | d | | | L | | | | | | | | | | | |
| | D1 | D2 | D3 | n | øe | Screw | Socket | Flange | T | D1 | D2 | D3 | n | øe | Screw | Socket | Flange | T | D1 | D2 | D3 | n | øe | Screw | Socket | Flange | | | | | | | |
| 15-1/2" | 15 | PT | 22 | 70 | 95 | 4 | 15 | 98 | 98 | 135 | 15 | 0.59 | NPT | 0.84 | 2.375 | 3.500 | 4 | 0.63 | 3.85 | 3.85 | 5.43 | 0.59 | 15 | R1/2 | 20 | 65 | 95 | 4 | 14 | 98 | 98 | 135 | 15 |
| 20-3/4" | 20 | PT | 26 | 75 | 100 | 4 | 15 | 119 | 119 | 159 | 16 | 0.79 | NPT | 1.05 | 2.750 | 3.785 | 4 | 0.63 | 4.68 | 4.68 | 6.25 | 0.59 | 20 | R3/4 | 25 | 75 | 105 | 4 | 14 | 119 | 119 | 159 | 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 | 6.57 | 0.66 | 26 | R1 | 32 | 85 | 115 | 4 | 14 | 124 | 124 | 167 | 17 |
| 32-11/4" | 36 | PT | 38 | 100 | 135 | 4 | 19 | 155 | 155 | 191 | 16 | 1.42 | NPT | 1.67 | 3.500 | 4.625 | 4 | 0.63 | 6.10 | 6.10 | 7.79 | 0.67 | 36 | R1-1/4 | 40 | 100 | 140 | 4 | 18 | 155 | 155 | 198 | 17 |
| 40-11/2" | 36 | PT | 48 | 105 | 145 | 4 | 19 | 155 | 155 | 202 | 18 | 1.57 | NPT | 1.91 | 3.875 | 5.000 | 4 | 0.63 | 6.10 | 6.10 | 7.89 | 0.7 | 36 | R1-1/2 | 50 | 110 | 150 | 4 | 18 | 155 | 155 | 202 | 17 |
| 50-2" | 50 | PT | 60 | 120 | 155 | 4 | 19 | 180 | 180 | 234 | 21 | 1.96 | NPT | 2.38 | 4.750 | 6.000 | 4 | 0.75 | 7.09 | 7.09 | 9.09 | 0.78 | 40 | R2 | 60 | 125 | 165 | 4 | 18 | 180 | 180 | 234 | 20 |
| 65-21/2" | 65 | PT | 76 | 140 | 175 | 4 | 19 | 226 | 226 | 276 | 20 | 2.36 | NPT | 2.88 | 5.500 | 7.000 | 4 | 0.75 | 8.89 | 8.89 | 10.87 | 0.8 | 65 | R2-1/2 | 75 | 145 | 185 | 4 | 18 | 226 | 226 | 276 | 20 |
| 80-3" | 80 | PT | 89 | 150 | 185 | 8 | 19 | 274 | 274 | 330 | 20.5 | 3.15 | NPT | 3.51 | 6.000 | 7.500 | 4 | 0.75 | 10.79 | 10.79 | 12.99 | 0.9 | 80 | R3 | 90 | 160 | 200 | 8 | 18 | 274 | 274 | 330 | 20 |
| 100-4" | 100 | PT | 114 | 175 | 210 | 8 | 19 | 367 | 367 | 417 | 20 | 3.74 | NPT | 4.51 | 7.500 | 9.000 | 8 | 0.75 | 14.45 | 14.45 | 16.41 | 0.92 | 100 | R4 | 110 | 180 | 220 | 8 | 18 | 367 | 367 | 417 | 20 |
| 150-6" | 150 | - | 240 | 280 | 323 | - | - | 480 | 23 | - | - | - | - | 9.500 | 11.000 | 8 | 0.88 | - | - | 18.90 | 0.87 | 150 | - | - | 240 | 285 | 8 | 23 | - | - | 480 | 23 | |
| 250-10" | 250 | - | 355 | 400 | 12 | 25 | - | - | 670 | 25 | - | - | - | - | 14.250 | 16.000 | 12 | 1.00 | - | - | 25.38 | 0.94 | 250 | - | - | 350 | 395 | 12 | 25 | - | - | 670 | 25 |

* Standard dimensions based on UPVC material



PP-H/UPVC/CPVC PIPE FITTING VALVE



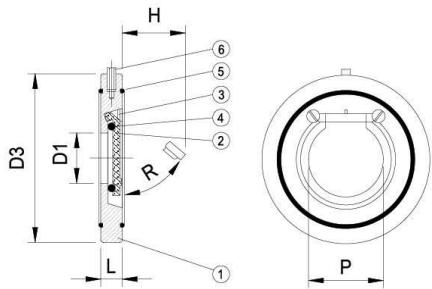
PP-H/UPVC/CPVC PIPE FITTING VALVE

WAFER CHECK VALVE

單片逆止閥

JT 300S

Size: DN40 ~ DN600



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 | 4 | O'ring | 1 | EPDM.VITON |
| 2 | Flapper | 1 | UPVC.PP.CPVC.PVDF | 5 | O'ring | 2 | EPDM.VITON |
| 3 | Flapper mounting screw | 2 | PP | 6 | Installation device | 1 | SUS316 |

DIMENSIONS TABLE

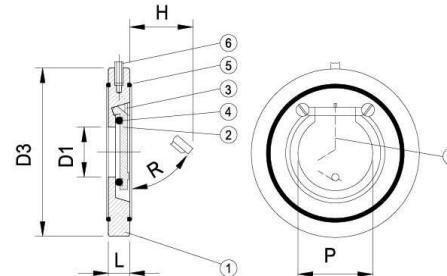
| Nom. Size | JIS | | | | ANSI | | | | DIN | | | | Unit:mm | | | | | |
|------------|-----|-----|-----|----|------|-------|-------|-------|------|-------|-----|-----|---------|----|-----|---|---|---|
| | D1 | D3 | P | L | D1 | D3 | P | L | D1 | D3 | P | L | H | D1 | D3 | P | L | H |
| 40(1-1/2") | 23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

WAFER CHECK VALVE(with springs)

單片逆止閥(有彈簧)

JT 300S

Size: DN40 ~ DN600



Features (特點) :

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

MATERIALS OF CONSTRUCTION

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

DIMENSIONS TABLE

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



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



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

Specific Properties (Technical Data Sheet) for Polypropylene PP-H 原料物性表

管材 PP-H 原料物性(PP-H material properties for the pipes):

| 項目 Items | 試驗方法 ASTM Methods | 單位 Units | (數值) |
|--------------------------------------|--------------------------|--------------------|-----------|
| 熔融指數 Melt Flow Index | D-1238 (230°C×2.16kg) | g/10 Min | 0.35-0.50 |
| 抗張強度 Tensile Strength | D-638 | kg/cm ² | 270 |
| 彎曲模數 Flexural Modulus | D-790 | kg/cm ² | 11,000 |
| 洛氏硬度 Rockwell Hardness | D-785 | R Scale | 80 |
| Izod衝擊強度23°C Izod Impact Strength | D-256 (1/8"厚) | kg·cm/cm | N.B. |
| 收縮率 Molding Shrinkage | FCFC | % | 1.5 |
| 比重 Specific Gravity | D-792 | | 0.9 |
| 熱變形溫度 Heat Deflection Temperature | D-648 (1/4"厚) | °C | 95 |

配件PP-H原料物性(PP-H material properties for the fittings):

| 項目 Items | 試驗方法 ASTM Methods | 單位 Units | (數值) |
|--------------------------------------|--------------------------|--------------------|---------|
| 熔融指數 Melt Flow Index | D-1238 (230°C×2.16kg) | g/10 Min | 0.5-0.6 |
| 抗張強度 Tensile Strength | D-638 | kg/cm ² | 270 |
| 彎曲模數 Flexural Modulus | D-790 | kg/cm ² | 11,000 |
| 洛氏硬度 Rockwell Hardness | D-785 | R Scale | 80 |
| Izod衝擊強度23°C Izod Impact Strength | D-256 (1/8"厚) | kg·cm/cm | N.B. |
| 收縮率 Molding Shrinkage | FCFC | % | 1.5 |
| 比重 Specific Gravity | D-792 | | 0.9 |
| 熱變形溫度 Heat Deflection Temperature | D-648 (1/4"厚) | °C | 95 |

WELDING INSTRUCTIONS Processing guidelines-heating element socket welding (面對面程序指示(依據 DVS 2208, Part 1))

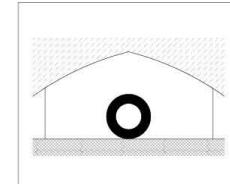
Preparation of welding place (焊接地點的準備)

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

組裝焊接設備(工具及機器)，控制治具。

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).

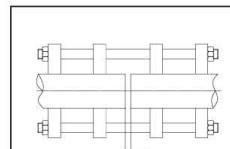
用丙酮清理要焊接物件的裡面及表面。

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。

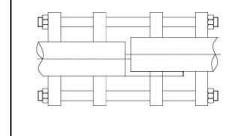


Preparations before welding (焊接前的準備)

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.

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



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。



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

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 clamping 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 form 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.

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.

Heating elements

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

| Pipe outside resp. edge length | 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 permanently attached heating element, adequate devices have to be provided for its insertion (e.g. handles, hooks 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.

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工作壓力，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類法蘭的接合作業中，夾緊裝置必須用來避免焊接元件的變形。安裝及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求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能得到精準之定位。

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隙量測器所測量出來，引導元件之滑動平面必須能夠抗腐蝕，如在該表面上鏡頭抗氧化與抗腐蝕。

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由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。



PP-H/PP-H(FRP COATED)

PIPE FITTING VALVE

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

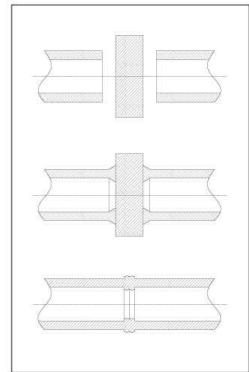
Performing of welding process(置入加熱板)

Insert heating element.(置入加熱板)

Impose required alignment pressure. The alignment pressure is maintained until the joining faces completely align onto the heating element. By this moment, a bead must have been created surrounding the whole circumference of both parts to be welded. Reduce adjusting pressure $p=0,01 \text{ N/mm}^2$ 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($p=0,01 \text{ N/mm}^2$)，依數據表經過預熱時間。將電熱板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 bead 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

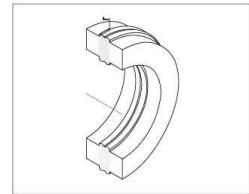
Possible differences in the formation of the beads may be justified by different flow behaviour of the joined materials. If the welding bead has to be removed for special reasons, this has to be done without leaving notches.

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来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, DVVG 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, DVVG 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)。





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

WELDING INSTRUCTIONS Processing guidelines-heating element socket welding

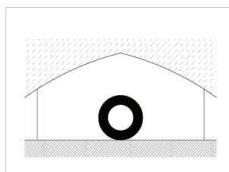
Preparation of welding place (套接地點的準備)

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



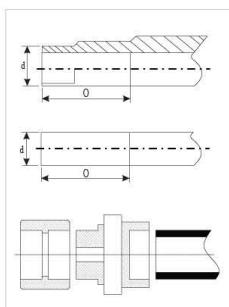
Preparation of welding seam (at any rate immediately before starting the welding process)

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。

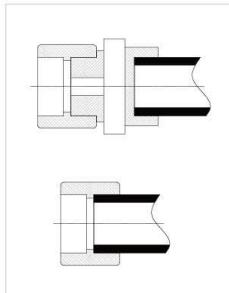
管子及配件表面用沒有絨毛的紙清潔，如果不需刮除表面，用刮刀再管子表面做深度記號(T)。



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。



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

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, they 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 sketch).

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)。

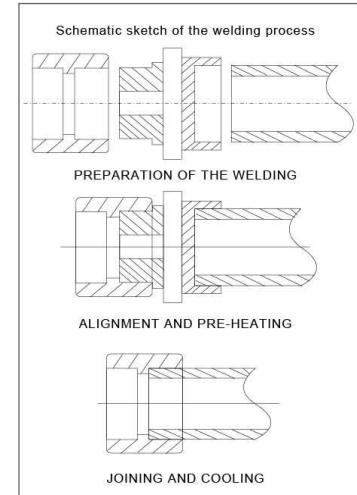
Heating element socket weldings may be manually performed up to pipe outside diameters of 40mm. Above that, use a welding device because of increasing joining forces.

熱插套焊可以用手動式操作做到管子外徑40mm，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!

在整個套接接過程中需依據DVS的規範。

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



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 tCK (冷卻時間) (min) |
|--|---------------------------------------|--|------|--------------------------------------|-------------------------------------|
| | | PN6 | PN10 | | |
| 16 | | | 5 | | |
| 20 | 250 / 270 | | 5 | | |
| 25 | | " | 7 | | |
| 32 | | " | 8 | | |
| 40 | 250 / 270 | " | 12 | | |
| 50 | | " | 18 | | |
| 63 | | " | 24 | | |
| 75 | 250 / 270 | 15 | 30 | | |
| 90 | | " | 40 | | |
| 110 | 250 / 270 | 30 | 50 | | |

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



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



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

PP-H(FRP COATED)PIPE

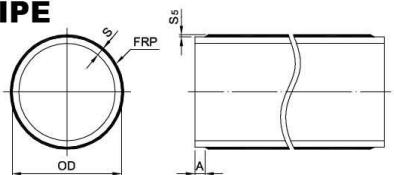
DIN 8077/8078

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) | | | 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 | 5.4 | 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 | 6.5 | 23-PIO-26-0110 | 7.3 | |
| 125 | - | - | - | 3 | 45 | 23-PIO-41-0125 | 6.1 | 23-PIO-33-0125 | 6.9 | 23-PIO-26-0125 | 7.9 | |
| 140 | - | - | - | 3 | 50 | 23-PIO-41-0140 | 6.5 | 23-PIO-33-0140 | 7.4 | 23-PIO-26-0140 | 8.4 | |
| 160 | - | - | - | 3 | 55 | 23-PIO-41-0160 | 6.9 | 23-PIO-33-0160 | 8.0 | 23-PIO-26-0160 | 9.2 | |
| 180 | - | - | - | 3 | 55 | 23-PIO-41-0180 | 7.4 | 23-PIO-33-0180 | 8.6 | 23-PIO-26-0180 | 10.0 | |
| 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 | 10.0 | 23-PIO-26-0225 | 11.7 | |
| 250 | - | - | - | 5 | 70 | 23-PIO-41-0250 | 11.1 | 23-PIO-33-0250 | 12.8 | 23-PIO-26-0250 | 14.7 | |
| 280 | - | - | - | 5 | 80 | 23-PIO-41-0280 | 11.9 | 23-PIO-33-0280 | 13.7 | 23-PIO-26-0280 | 15.8 | |
| 315 | - | - | - | 5 | 90 | 23-PIO-41-0315 | 12.7 | 23-PIO-33-0315 | 14.8 | 23-PIO-26-0315 | 17.2 | |
| 355 | - | - | - | 5 | 100 | 23-PIO-41-0355 | 13.7 | 23-PIO-33-0355 | 16.1 | 23-PIO-26-0355 | 18.7 | |
| 400 | 6.0 | 7.2 | 8.0 | 9.7 | 5 | 110 | 23-PIO-41-0400 | 14.8 | 23-PIO-33-0400 | 17.4 | 23-PIO-26-0400 | 20.4 |
| 450 | 6.0 | 8.2 | 8.0 | 11.0 | 5 | 120 | 23-PIO-41-0450 | 16.0 | 23-PIO-33-0450 | 19.0 | 23-PIO-26-0450 | 22.4 |
| 500 | 8.0 | 11.3 | 10.0 | 15.1 | 8 | 140 | 23-PIO-41-0500 | 20.2 | 23-PIO-33-0500 | 23.5 | 23-PIO-26-0500 | 27.3 |
| 560 | 10.0 | 16.6 | - | - | 8 | 150 | 23-PIO-41-0560 | 21.7 | 23-PIO-33-0560 | 25.4 | 23-PIO-26-0560 | 29.6 |
| 630 | 10.0 | 18.8 | - | - | 8 | 170 | 23-PIO-41-0630 | 23.4 | 23-PIO-33-0630 | 27.6 | 23-PIO-26-0630 | 32.3 |
| 710 | 12.0 | 25.3 | - | - | 8 | 180 | 23-PIO-41-0710 | 25.4 | 23-PIO-33-0710 | 30.1 | 23-PIO-26-0710 | 35.4 |
| 800 | 12.0 | 28.6 | - | - | 8 | 210 | 23-PIO-41-0800 | 27.6 | 23-PIO-33-0800 | 32.9 | 23-PIO-26-0800 | 38.8 |
| 900 | 15.0 | 40.2 | - | - | 12 | 230 | 23-PIO-41-0900 | 34.0 | 23-PIO-33-0900 | 40.0 | 23-PIO-26-0900 | 46.7 |
| 1000 | 15.0 | 44.7 | - | - | 12 | 240 | 23-PIO-41-1000 | 36.4 | 23-PIO-33-1000 | 43.1 | 23-PIO-26-1000 | 50.5 |
| 1200 | 18.0 | 64.4 | - | - | 12 | 260 | 23-PIO-41-1200 | 41.3 | 23-PIO-33-1200 | 49.3 | 23-PIO-26-1200 | - |

PP-H(FRP COATED)PIPE

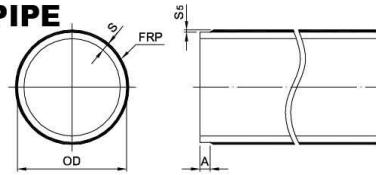
DIN 8077/8078

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 | | SDR2.5 ISO S3.125 PN16 | | |
|------------|-------------|------------------|-----------|-------------------|-----------|----------------------------|----------------|-------------------------|----------------|------------------------------|----------------|-----|
| | S (mm) | Weight (kg/m) | S (mm) | | | Code | S (mm) | Code | S (mm) | Code | S (mm) | |
| 10 | - | - | - | - | 2 | 20 | - | - | - | - | 23-PIO-07-0010 | 4.0 |
| 12 | - | - | - | - | 2 | 20 | - | - | - | - | 23-PIO-07-0012 | 4.0 |
| 16 | - | - | - | - | 2 | 20 | - | - | 23-PIO-11-0016 | 4.0 | 23-PIO-07-0016 | 4.3 |
| 20 | - | - | - | - | 2 | 25 | 23-PIO-17-0022 | 3.8 | 23-PIO-11-0022 | 4.5 | 23-PIO-07-0022 | 4.8 |
| 25 | - | - | - | - | 2 | 30 | 23-PIO-17-0025 | 3.8 | 23-PIO-11-0025 | 4.7 | 23-PIO-07-0025 | 5.5 |
| 32 | - | - | - | - | 2 | 35 | 23-PIO-17-0032 | 3.9 | 23-PIO-11-0032 | 5.0 | 23-PIO-07-0032 | 6.5 |
| 40 | - | - | - | - | 2 | 35 | 23-PIO-17-0040 | 4.3 | 23-PIO-11-0040 | 5.7 | 23-PIO-07-0040 | 7.6 |
| 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 | 11.7 | |
| 75 | - | - | - | 3 | 40 | 23-PIO-17-0075 | 7.3 | 23-PIO-11-0075 | 9.9 | 23-PIO-07-0075 | 13.4 | |
| 90 | - | - | - | 3 | 40 | 23-PIO-17-0090 | 8.1 | 23-PIO-11-0090 | 11.2 | 23-PIO-07-0090 | 15.5 | |
| 110 | - | - | - | 3 | 40 | 23-PIO-17-0110 | 9.3 | 23-PIO-11-0110 | 13.0 | 23-PIO-07-0110 | 18.2 | |
| 125 | - | - | - | 3 | 45 | 23-PIO-17-0125 | 10.1 | 23-PIO-11-0125 | 14.4 | 23-PIO-07-0125 | 20.24 | |
| 140 | - | - | - | 3 | 50 | 23-PIO-17-0140 | 11.0 | 23-PIO-11-0140 | 15.8 | 23-PIO-07-0140 | 22.31 | |
| 160 | - | - | - | 3 | 55 | 23-PIO-17-0160 | 12.1 | 23-PIO-11-0160 | 17.6 | 23-PIO-07-0160 | 23.07 | |
| 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 | 27.47 | |
| 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 | 27.8 | 23-PIO-07-0250 | 39.48 | |
| 280 | - | - | - | 5 | 80 | 23-PIO-17-0280 | 20.9 | 23-PIO-11-0280 | 30.5 | 23-PIO-07-0280 | 43.62 | |
| 315 | - | - | - | 5 | 90 | 23-PIO-17-0315 | 22.9 | 23-PIO-11-0315 | 33.7 | 23-PIO-07-0315 | 48.45 | |
| 355 | - | - | - | 5 | 100 | 23-PIO-17-0355 | 25.1 | 23-PIO-11-0355 | 37.3 | - | - | |
| 400 | 6.0 | 7.2 | 8.0 | 9.7 | 5 | 110 | 23-PIO-17-0400 | 27.7 | 23-PIO-11-0400 | 41.4 | - | - |
| 450 | 6.0 | 8.2 | 8.0 | 11.0 | 5 | 120 | 23-PIO-17-0450 | 30.5 | 23-PIO-11-0450 | 46.0 | - | - |
| 500 | 8.0 | 11.3 | 10.0 | 15.1 | 8 | 140 | 23-PIO-17-0500 | 36.3 | 23-PIO-11-0500 | 53.5 | - | - |
| 560 | 10.0 | 16.6 | - | - | 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 | 53.5 | 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 | 64.4 | - | - | 12 | 260 | 23-PIO-17-1200 | 80.1 | 23-PIO-11-1200 | - | - | - |



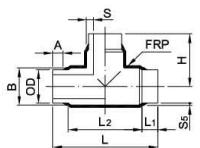
PP-H/PP-H(FRP COATED)

PIPE FITTING VALVE

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

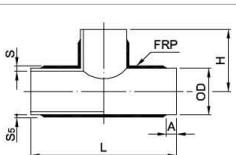


| OD (mm) | H (mm) | L (mm) | L ₁ (mm) | L ₂ (mm) | B (mm) | S5 FRP (mm) | A (mm) | SDR17.6 ISO S8.3 PN6 | | SDR11 ISO S5 PN10 | | SDR7.25 ISO S3.125 PN16 | |
|------------|-----------|-----------|------------------------|------------------------|-----------|-------------------|-----------|----------------------------|-----------|-------------------------|-----------|-------------------------------|-----------|
| | | | | | | | | Code | S (mm) | Code | S (mm) | Code | S (mm) |
| 20 | 35.00 | 70.0 | 15.0 | 40.0 | 21.0 | 2 | 25 | - | - | 23-TT1-11-0020 | 4.5 | 23-TT1-07-0020 | 4.8 |
| 25 | 40.00 | 80.0 | 15.0 | 50.0 | 26.0 | 2 | 30 | - | - | 23-TT1-11-0025 | 4.7 | 23-TT1-07-0025 | 5.5 |
| 32 | 47.75 | 89.0 | 17.0 | 55.0 | 33.4 | 2 | 35 | - | - | 23-TT1-11-0032 | 5.0 | 23-TT1-07-0032 | 6.5 |
| 40 | 50.00 | 101.5 | 15.0 | 71.5 | 42.0 | 2 | 35 | - | - | 23-TT1-11-0040 | 5.7 | 23-TT1-07-0040 | 7.6 |
| 50 | 60.00 | 122.0 | 23.0 | 76.0 | 52.0 | 2 | 35 | 23-TT1-11-0050 | 4.9 | 23-TT1-11-0050 | 6.8 | 23-TT1-07-0050 | 8.9 |
| 63 | 75.50 | 150.0 | 27.0 | 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 | 87.50 | 176.0 | 28.0 | 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 | 182.0 | 32.5 | 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 | 217.5 | 34.5 | 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 | 119.5 | 239.0 | 35.0 | 169.0 | 133.0 | 3 | 45 | 23-TT1-17-0125 | 10.1 | 23-TT1-11-0125 | 14.4 | - | - |
| 140 | 126.0 | 252.0 | 35.0 | 182.0 | 150.0 | 3 | 50 | 23-TT1-17-0140 | 11.0 | 23-TT1-11-0140 | 15.8 | - | - |
| 160 | 137.0 | 274.0 | 35.0 | 204.0 | 170.0 | 3 | 55 | 23-TT1-17-0160 | 12.1 | 23-TT1-11-0160 | 17.6 | - | - |
| 180 | 158.5 | 317.0 | 35.0 | 247.0 | 190.0 | 3 | 55 | 23-TT1-17-0180 | 13.2 | 23-TT1-11-0180 | 19.4 | - | - |
| 200 | 168.0 | 336.0 | 35.0 | 266.0 | 210.0 | 3 | 60 | 23-TT1-17-0200 | 14.4 | 23-TT1-11-0200 | 21.2 | - | - |
| 225 | 170.0 | 340.0 | 40.0 | 260.0 | 235.0 | 3 | 70 | 23-TT1-17-0020 | 15.8 | 23-TT1-11-0020 | 23.5 | - | - |
| 250 | 209.0 | 418.0 | 45.0 | 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) | 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)



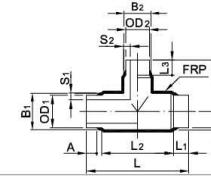
PP-H/PP-H(FRP COATED)

PIPE FITTING VALVE

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



| OD ₁ /OD ₂ (mm) | H (mm) | L (mm) | L ₁ (mm) | L ₂ (mm) | L ₃ (mm) | B ₁ (mm) | B ₂ (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 | 75 | 26 | 76.8 | 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 | 30 | 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-TR1-11-180 | |



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

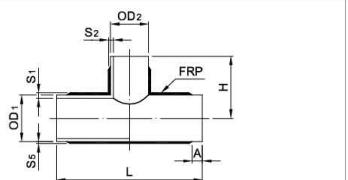


PP-H/PP-H(FRP COATED)
PIPE FITTING VALVE

**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



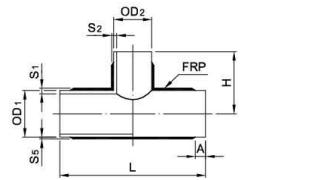
| OD ₁ /OD ₂ (mm) | H (mm) | L (mm) | L ₁ (mm) | L ₂ (mm) | L ₃ (mm) | B ₁ (mm) | B ₂ (mm) | S ₅ FRP (mm) | A (mm) | SDR17.6 ISO S8.3 PN6 | | SDR11 ISO S5 PN10 | |
|--|-----------|-----------|------------------------|------------------------|------------------------|------------------------|------------------------|-------------------------------|-----------|----------------------------|-----------|-------------------------|-----------|
| | | | | | | | | | | 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 | 21-TR1-11-200063 | 21/2.8 |
| △ 200-90 | 157.0 | 273 | 35 | 203 | 26 | 208 | 93.5 | 3 | 60 | 21-TR1-17-200090 | 14/4.8 | 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 |
| △ 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 | 265 | 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



| OD ₁ /OD ₂ (mm) | H (mm) | L (mm) | S ₅ 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 |



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



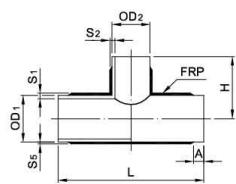
PP-H/PP-H(FRP COATED)
PIPE FITTING VALVE

**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



| OD ₁ /OD ₂ (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-TR3-17-121000 | 80.1/68.8 | 23-TR3-11-121000 | 121.0/102.9 |

手工製品(Fabricated)

PP-H(FRP COATED)

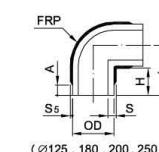
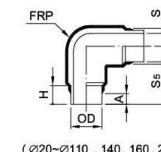
90° BEND

for butt welding

molded from PP-H

對接90°彎頭 PP-H(披覆FRP)

DFP L91



(Ø20~Ø110, 140, 160, 225, 280)

(Ø125, 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 | | SDR7.25 ISO S3.125 PN16 | |
|------------|-----------|-----------|-------------------|-----------|----------------------------|-----------|-------------------------|-----------|-------------------------------|-----------|
| | | | | | Code | S (mm) | Code | S (mm) | Code | S (mm) |
| 20 | 25 | 45.0 | 2 | 25 | - | - | 21-L91-11-0020 | 4.5 | 21-L91-07-0020 | 4.8 |
| 25 | 26 | 51.0 | 2 | 30 | - | - | 21-L91-11-0025 | 4.7 | 21-L91-07-0025 | 5.5 |
| 32 | 26 | 58.0 | 2 | 35 | - | - | 21-L91-11-0032 | 5.0 | 21-L91-07-0032 | 6.5 |
| 40 | 28 | 68.0 | 2 | 35 | - | - | 21-L91-11-0040 | 5.7 | 21-L91-07-0040 | 7.6 |
| 50 | 28 | 78.0 | 2 | 35 | 21-L91-17-0050 | 4.9 | 21-L91-11-0050 | 6.6 | 21-L91-07-0050 | 8.9 |
| 63 | 28 | 91.0 | 3 | 35 | 21-L91-17-0063 | 6.6 | 21-L91-11-0063 | 8.8 | 21-L91-07-0063 | 11.7 |
| 75 | 28 | 103.0 | 3 | 40 | 21-L91-17-0075 | 7.3 | 21-L91-11-0075 | 9.9 | 21-L91-07-0075 | 13.4 |
| 90 | 28 | 118.0 | 3 | 40 | 21-L91-17-0090 | 8.1 | 21-L91-11-0090 | 11.2 | 21-L91-07-0090 | 15.5 |
| 110 | 28 | 138.0 | 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 | 35 | 130.0 | 3 | 50 | 21-L91-17-0140 | 11.0 | 21-L91-11-0140 | 15.8 | - | - |
| 160 | 35 | 133.0 | 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 | 40 | 180.0 | 3 | 70 | 21-L91-17-0225 | 15.8 | 21-L91-11-0225 | 23.5 | - | - |
| 250 | 45 | 299.5 | 5 | 70 | 21-L91-17-0250 | 19.2 | 21-L91-11-0250 | 27.8 | - | - |
| 280 | 90 | 230.0 | 5 | 80 | 21-L91-17-0280 | 20.9 | 21-L91-11-0280 | 30.5 | - | - |
| 315 | 90 | 247.5 | 5 | 90 | 21-L91-17-0315 | 22.9 | 21-L91-11-0315 | 33.7 | - | - |

PP-H(FRP COATED) 90° BEND

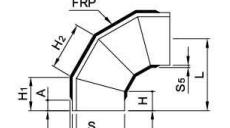
(Fabricated)

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/PP-H(FRP COATED)

PIPE FITTING VALVE

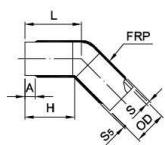


PP-H/PP-H(FRP COATED)

PIPE FITTING VALVE

PP-H(FRP COATED)**45° ELBOW**for butt welding
molded from PP-H**對接45°彎頭 PP-H(披覆FRP)**

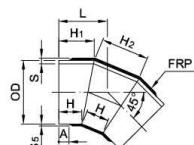
DFP L45



| OD (mm) | H (mm) | L (mm) | S5 FRP (mm) | A (mm) | SDR17.6 ISO S8.3 PN6 | | SDR11 ISO S5 PN10 | | SDR7.25 ISO S3.125 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

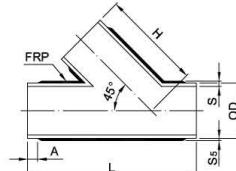


| OD (mm) | H (mm) | H ₁ (mm) | H ₂ (mm) | L (mm) | S5 FRP (mm) | A (mm) | SDR17.6 ISO S8.3 PN6 | | SDR11 ISO S5 PN10 | |
|------------|-----------|------------------------|------------------------|-----------|-------------------|-----------|----------------------------|-----------|-------------------------|-----------|
| | | | | | | | Code | S (mm) | Code | S (mm) |
| 355 | 185 | 256 | 328 | 359 | 5 | 100 | 23-L47-17-0355 | 25.1 | 23-L47-11-0355 | 37.3 |
| 400 | 210 | 289 | 369 | 407 | 5 | 110 | 23-L47-17-0400 | 27.7 | 23-L47-11-0400 | 41.4 |
| 450 | 235 | 325 | 415 | 455 | 5 | 120 | 23-L47-17-0450 | 30.5 | 23-L47-11-0450 | 46.0 |
| 500 | 260 | 360 | 461 | 504 | 8 | 140 | 23-L47-17-0500 | 36.3 | 23-L47-11-0500 | 53.5 |
| 560 | 290 | 402 | 515 | 563 | 8 | 150 | 23-L47-17-0560 | 39.7 | 23-L47-11-0560 | 58.9 |
| 630 | 325 | 450 | 579 | 631 | 8 | 170 | 23-L47-17-0630 | 43.7 | 23-L47-11-0630 | 65.2 |
| 710 | 365 | 506 | 652 | 710 | 8 | 180 | 23-L47-17-0710 | 48.2 | 23-L47-11-0710 | 72.5 |
| 800 | 410 | 569 | 733 | 798 | 8 | 210 | 23-L47-17-0800 | 53.5 | 23-L47-11-0800 | 80.7 |
| 900 | 460 | 639 | 824 | 895 | 12 | 230 | 23-L47-17-0900 | 63.2 | 23-L47-11-0900 | 93.8 |
| 1000 | 520 | 719 | 919 | 1009 | 12 | 240 | 23-L47-17-1000 | 68.8 | 23-L47-11-1000 | 102.9 |
| 1200 | 620 | 858 | 1101 | 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 | 1283 | 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/PP-H(FRP COATED)
PIPE FITTING VALVE



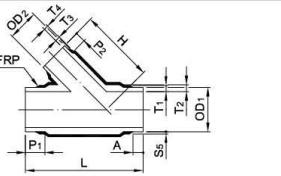
PP-H/PP-H(FRP COATED)
PIPE FITTING VALVE

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

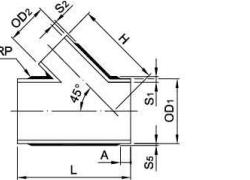


| OD ₁ (mm) | OD ₂ (mm) | H (mm) | L (mm) | L ₁ (mm) | L ₂ (mm) | S5 FRP (mm) | A (mm) | SDR17.6 ISO S8.3 PN6 | | | | Code | |
|-------------------------|-------------------------|-----------|-----------|------------------------|------------------------|-------------------|-----------|----------------------------|------------|------------|------------|-------|--------------------|
| | | | | | | | | T1 (mm) | T2 (mm) | T3 (mm) | T4 (mm) | | |
| 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 |

| OD ₁ (mm) | OD ₂ (mm) | H (mm) | L (mm) | L ₁ (mm) | L ₂ (mm) | S5 FRP (mm) | A (mm) | SDR11 ISO S5 PN10 | | | | Code | |
|-------------------------|-------------------------|-----------|-----------|------------------------|------------------------|-------------------|-----------|-------------------------|------------|------------|------------|-------|------------------|
| | | | | | | | | T1 (mm) | T2 (mm) | T3 (mm) | T4 (mm) | | |
| 90 | 63 | 153.53 | 242 | 53 | 31 | 3 | 40 | 11.2 | 14.2 | 9.0 | 10.0 | 0.796 | 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 from PP-H



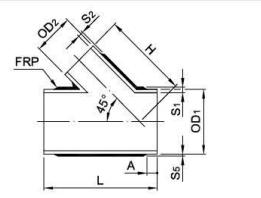
| OD ₁ /OD ₂ (mm) | H (mm) | L (mm) | B (mm) | B ₁ (mm) | S5 FRP (mm) | A (mm) | SDR17.6 ISO S8.3 PN6 | | SDR11 ISO S5 PN10 | | SDR7.25 ISO S3.125 PN16 | |
|--|-----------|-----------|-----------|------------------------|-------------------|-----------|----------------------------|---------------|-------------------------|---------------|-------------------------------|---------------|
| | | | | | | | 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 | 9.7/3.3 | 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 | 10.4/6.4 | 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



| OD ₁ /OD ₂ (mm) | H (mm) | L (mm) | B (mm) | B ₁ (mm) | S5 FRP (mm) | A (mm) | SDR17.6 ISO S8.3 PN6 | | SDR11 ISO S5 PN10 | | SDR11 ISO S5 PN10 | |
|--|-----------|-----------|-----------|------------------------|-------------------|-----------|----------------------------|---------------|-------------------------|---------------|-------------------------|---------------|
| | | | | | | | Code | S1/S2 (mm) | 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 | | | | | | | | | | | |



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

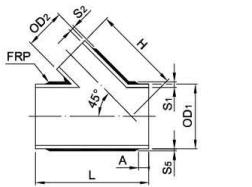


PP-H/PP-H(FRP COATED)
PIPE FITTING VALVE

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

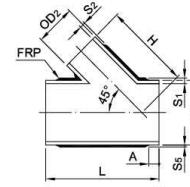


| OD ₁ /OD ₂ (mm) | H (mm) | L (mm) | I (mm) | S5 FRP (mm) | A (mm) | SDR17.6 ISO 58.3 PN6 | | SDR11 S5 PN10 | |
|--|-----------|-----------|-----------|-------------------|-----------|----------------------------|---------------|---------------------|---------------|
| | | | | | | Code | S1/S2 (mm) | 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 | 30.5/22.9 | 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 |
| 630-550 | 1020 | 1694 | 1187 | 8 | 170 | 23-TY2-17-630550 | 43.7/39.7 | 23-TY2-11-630550 | 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



| OD ₁ /OD ₂ (mm) | H (mm) | L (mm) | I (mm) | S5 FRP (mm) | A (mm) | SDR17.6 ISO 58.3 PN6 | | SDR11 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/PP-H(FRP COATED)
PIPE FITTING VALVE



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

PP-H(FRP COATED)

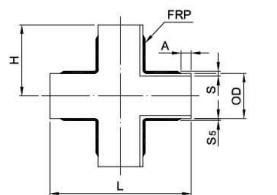
CROSS

(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

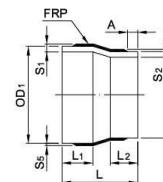
concentric,elongated

for butt welding

molded from PP-H

對接大小頭 PP-H(披覆FRP)

DFP RC1



| OD ₁ /OD ₂ (mm) | L (mm) | L ₁ (mm) | L ₂ (mm) | S5 FRP (mm) | A (mm) | SDR17.6 ISO S8.3 PN6 | | SDR11 ISO S5 PN10 | |
|--|-----------|------------------------|------------------------|-------------------|-----------|----------------------------|---------------------------------------|-------------------------|---------------------------------------|
| | | | | | | Code | S ₁ / ₂ (mm) | Code | S ₁ / ₂ (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 | 7.3/6.8 | 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-RC1-17-250225 | 19.2/17.8 | 23-RC1-11-250225 | 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/PP-H(FRP COATED)
PIPE FITTING VALVE

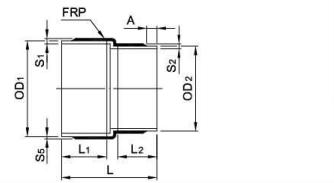


PP-H/PP-H(FRP COATED)
PIPE FITTING VALVE

**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



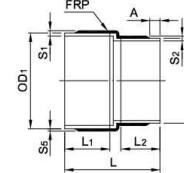
| OD ₁ /OD ₂ (mm) | L (mm) | L ₁ (mm) | L ₂ (mm) | S5 FRP (mm) | A (mm) | SDR17.6 ISO S8.3 PN6 | | SDR11 ISO S5 PN10 | |
|--|-----------|------------------------|------------------------|-------------------|-----------|----------------------------|---------------|-------------------------|---------------|
| | | | | | | Code | S1/S2 (mm) | Code | S1/S2 (mm) |
| 355-180 | 318 | 180 | 110 | 5 | 55 | 23-RC1-17-355180 | 25/15.2 | 23-RC1-11-355180 | 37.3/21.4 |
| 355-200 | 328 | 180 | 120 | 5 | 60 | 23-RC1-17-355200 | 25/16.4 | 23-RC1-11-355200 | 37.3/23.2 |
| 355-225 | 328 | 180 | 120 | 5 | 70 | 23-RC1-17-355225 | 25/17.8 | 23-RC1-11-355225 | 37.3/25.5 |
| 355-250 | 338 | 180 | 130 | 5 | 80 | 23-RC1-17-355250 | 25/19.2 | 23-RC1-11-355250 | 37.3/27.8 |
| 355-280 | 358 | 180 | 150 | 5 | 80 | 23-RC1-17-355280 | 25/20.9 | 23-RC1-11-355280 | 37.3/30.5 |
| 355-315 | 368 | 180 | 160 | 5 | 90 | 23-RC1-17-355315 | 25/22.9 | 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



| OD ₁ /OD ₂ (mm) | L (mm) | L ₁ (mm) | L ₂ (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 | 658 | 550 | 280 | 12 | 140 | 23-RC1-17-100500 | 68.8/40.3 | 23-RC1-11-100500 | 102.9/57.5 |
| 1000-560 | 678 | 550 | 300 | 12 | 150 | 23-RC1-17-100560 | 68.8/43.7 | 23-RC1-11-100560 | 102.9/62.9 |
| 1000-630 | 728 | 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/PP-H(FRP COATED)
PIPE FITTING VALVE

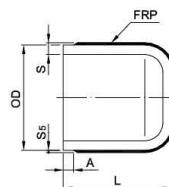


PP-H/PP-H(FRP COATED)
PIPE FITTING VALVE

**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

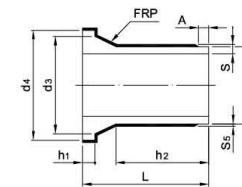


| OD (mm) | L (mm) | S5 FRP (mm) | A (mm) | SDR17.6 ISO S5.3 PN6 | | SDR11 ISO S5 PN10 | | SDR7.25 ISO S4.25 PN16 | |
|------------|-----------|-------------------|-----------|----------------------------|-----------|-------------------------|-----------|------------------------------|-----------|
| | | | | Code | S (mm) | Code | S (mm) | Code | S (mm) |
| 20 | 42.0 | 2 | 25 | 23-CP1-17-0020 | 3.8 | 23-CP1-11-0020 | 4.5 | 23-CP1-07-0020 | 4.8 |
| 25 | 50.0 | 2 | 30 | 23-CP1-17-0025 | 3.8 | 23-CP1-11-0025 | 4.7 | 23-CP1-07-0025 | 5.5 |
| 32 | 55.0 | 2 | 35 | 23-CP1-17-0032 | 3.9 | 23-CP1-11-0032 | 5.0 | 23-CP1-07-0032 | 6.5 |
| 40 | 60.0 | 2 | 35 | 23-CP1-17-0040 | 4.3 | 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) | d5 (mm) | d4 (mm) | h2 (mm) | L (mm) | S5 FRP (mm) | A (mm) | SDR17.6 ISO S5.3 PN6 | | SDR11 ISO S5 PN10 | | | |
|------------|------------|------------|------------|-----------|-------------------|-----------|----------------------------|-----------|-------------------------|----------------|-------|------|
| | | | | | | | Code | S (mm) | Code | S (mm) | | |
| 20 | 28.0 | 44.9 | 28.0 | 50.8 | 2 | 25 | 23-FT1-0020-17.6 | 3.8 | 7.2 | 23-FT1-0020-11 | 4.5 | 7.2 |
| 25 | 32.9 | 57.9 | 29.0 | 51.0 | 2 | 30 | 23-FT1-0025-17.6 | 3.8 | 9.2 | 23-FT1-0025-11 | 4.7 | 9.2 |
| 32 | 40.2 | 67.9 | 26.0 | 50.2 | 2 | 35 | 23-FT1-0032-17.6 | 3.9 | 10 | 23-FT1-0032-11 | 5.0 | 10 |
| 40 | 50.5 | 77.9 | 21.5 | 50.1 | 2 | 35 | 23-FT1-0040-17.6 | 4.3 | 11 | 23-FT1-0040-11 | 5.7 | 11 |
| 50 | 60.6 | 87.8 | 22.0 | 50.7 | 2 | 35 | 23-FT1-0050-17.6 | 4.9 | 12.2 | 23-FT1-0050-11 | 6.6 | 12.2 |
| 63 | 73.5 | 102.1 | 18.5 | 50.3 | 3 | 35 | 23-FT1-0063-17.6 | 6.6 | 14 | 23-FT1-0063-11 | 8.8 | 14 |
| 75 | 87.0 | 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 | 80.1 | 3 | 40 | 23-FT1-0090-17.6 | 8.1 | 17 | 23-FT1-0090-11 | 11.2 | 17 |
| 110 | 126 | 157.5 | 38.5 | 80.0 | 3 | 40 | 23-FT1-0110-17.6 | 9.3 | 18.2 | 23-FT1-0110-11 | 13.0 | 18.2 |
| 125 | 131 | 158.0 | 99.0 | 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 | 174 | 212.1 | 109.5 | 161.1 | 3 | 55 | 23-FT1-0160-17.6 | 12.1 | 26.2 | 23-FT1-0160-11 | 17.6 | 26.2 |
| 180 | - | 212 | - | 140 | 3 | 55 | 23-FT1-0180-17.6 | 13.2 | 30 | 23-FT1-0180-11 | 19.4 | 30 |
| 200 | 232 | 271 | 141.5 | 217 | 3 | 60 | 23-FT1-0200-17.6 | 14.4 | 35.5 | 23-FT1-0200-11 | 21.2 | 35.5 |
| 225 | 235 | 268 | 145 | 213 | 3 | 70 | 23-FT1-0225-17.6 | 15.8 | 32 | 23-FT1-0225-11 | 23.5 | 32 |
| 250 | 285 | 320 | 202 | 275 | 5 | 70 | 23-FT1-0250-17.6 | 19.2 | 35 | 23-FT1-0250-11 | 27.8 | 35 |
| 280 | 291 | 320 | 302 | 377 | 5 | 80 | 23-FT1-0280-17.6 | 20.9 | 35 | 23-FT1-0280-11 | 30.5 | 35 |
| 315 | 335 | 370 | 302 | 382 | 5 | 90 | 23-FT1-0315-17.6 | 22.9 | 35 | 23-FT1-0315-11 | 33.7 | 35 |
| 355 | 373 | 430 | 140 | 203 | 5 | 100 | 23-FT1-0355-17.6 | 25.1 | 35 | 23-FT1-0355-11 | 37.3 | 35 |
| 400 | 427 | 482 | 140 | 203 | 5 | 110 | 23-FT1-0400-17.6 | 27.7 | 35 | 23-FT1-0400-11 | 41.4 | 35 |
| 450 | 514 | 585 | 140 | 216 | 5 | 120 | 23-FT1-0450-17.6 | 30.5 | 46 | 23-FT1-0450-11 | 46.0 | 46 |
| 500 | 530 | 585 | 140 | 216 | 8 | 140 | 23-FT1-0500-17.6 | 36.3 | 46 | 23-FT1-0500-11 | 53.5 | 46 |
| 560 | 615 | 685 | 140 | 220 | 8 | 150 | 23-FT1-0560-17.6 | 39.7 | 50 | 23-FT1-0560-11 | 58.9 | 50 |
| 630 | 642 | 685 | 140 | 220 | 8 | 170 | 23-FT1-0630-17.6 | 43.7 | 50 | 23-FT1-0630-11 | 65.2 | 50 |
| 710 | 737 | 800 | 150 | 246 | 8 | 180 | 23-FT1-0710-17.6 | 48.2 | 60 | 23-FT1-0710-11 | 72.5 | 60 |
| 800 | 845 | 905 | 150 | 248 | 8 | 210 | 23-FT1-0800-17.6 | 53.5 | 60 | 23-FT1-0800-11 | 80.7 | 60 |
| 900 | 944 | 1005 | 150 | 260 | 12 | 230 | 23-FT1-0900-17.6 | 63.2 | 70 | 23-FT1-0900-11 | 93.8 | 70 |
| 1000 | 1047 | 1110 | 150 | 260 | 12 | 240 | 23-FT1-1000-17.6 | 68.8 | 70 | 23-FT1-1000-11 | 102.9 | 70 |
| 1200 | 1245 | 1320 | 150 | 260 | 12 | 260 | 23-FT1-1200-17.6 | 80.1 | 70 | 23-FT1-1200-11 | 121.0 | 70 |



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



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

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] | SDR 41 | SDR 33 | SDR 26 | SDR 17.6 | SDR 11 | SDR 7.25 | SDR 6 | |
|-----------------------------|---------------------------------------|--------|--------|--------|----------|--------|----------|-------|-----|
| | | S 20 | S 16 | S 12.5 | S 8.3 | S 5 | S 3.125 | S 2.5 | |
| | | PN 2.5 | PN 3.2 | PN 4 | PN 5 | 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 (99) |
|--|------------|------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| PVC | 100% | 86% | 75% | 62% | 50% | 40% | 30% | 21% | -0% | -0% | -0% | -0% | -0% | -0% | -0% |
| PP-H | 100% | 100% | 91% | 82% | 70% | 65% | 57% | 50% | 40% | 38% | 30% | 24% | 20% | -0% | -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 medium 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)

The support distances have to be reduced by 4% for fluids with a density of 1.0 g/cm³ up to 1.25 g/cm³. At the transportation of gases with a density of <0.01 g/cm³, the support distances can be increased as stated below:
(支撐距離會因流體比重在1.0g/cm³到1.25g/cm³下減少4%，瓦斯運輸上比小於0.01g/cm³，支撐距離可以增加如下：)

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 be reduced by 25% (依據PP-H管的支撐距離來計算PP-R必須減少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 |