



CHRYSSAFIDIS

ΑΥΛΑΚΩΤΑ ΕΞΑΡΤΗΜΑΤΑ  
GROOVED FITTINGS

**Profit**  
FITTING YOUR NEEDS

## FIRE PROTECTION TECHNOLOGY



**2018**

**EN**



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# CHRYSSAFIDIS

## ABOUT PROFIT



**Complete range** of couplings and fittings, butterfly valves and flexible hoses used in above ground automatic sprinkler installations, in red, white and galvanized coatings.



**>50** Years in-house installer experience.



**>2500** Pallets in our stock.



**>400** References in our assortment.



**Profit quality control** in the factory.

- Profit Europe nv was founded in 2006 by André Saelens with the import of the first container of grooved couplings and fittings from China into Belgium.
- Since then, Profit Europe nv started selling sprinkler installation components to installers in Belgium, The Netherlands and France. Over the years the network of customers in Europe grew and the number of imported containers increased accordingly.
- In 2012 the threshold of 2.000 tons of imported materials was reached, Profit was selling to 15 countries within Europe.
- In 2013 Profit extended its grooved and threaded assortment with flexible hoses "PROFLEX".
- That same year, the Profit Quality Control Team started to run quality controls at the manufacturing site to ensure that only the products that comply with the quality requirements reach Profit's customers.
- In 2016 Profit expanded its range of products with butterfly valves with wafer end and grooved end.
- At the start of 2018 Profit introduced the center punch tool and the white products, quickly followed by red 11,25° and 22,50° elbows and red split flanges.

**Today Profit Europe is active in more than 25 European countries, focusing on building long-lasting relationships with its partners in the fire protection industry.**

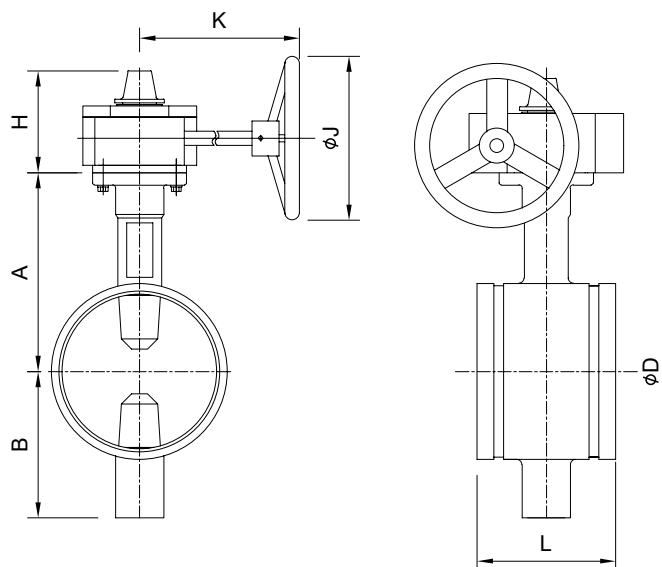


# PRODUCTS





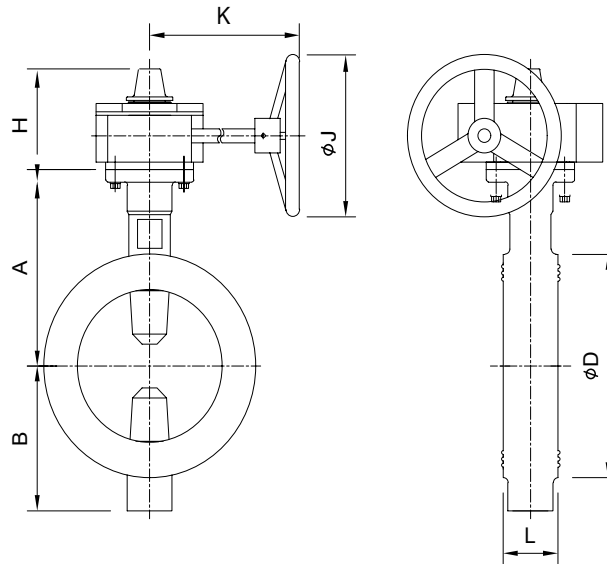
## BUTTERFLY VALVE GROOVED END



Reference	DN	Dimensions mm							Weight kg
		A	B	ØD	H	K	ØJ	L	
GBV2½	65	125	95	76,1	111	153	152	96,4	8,20
GBV3	80	140	100	88,9	111	153	152	97,0	8,90
GBV4	100	160	100	114,3	111	153	152	115,1	10,10
GBV5	125	170	125	139,7	111	153	152	132,4	13,60
GBV6	150	190	140	168,3	111	153	200	132,4	17,00
GBV8	200	230	175	219,1	126	210	300	147,4	31,00

Valve spare parts available upon request.


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**BUTTERFLY VALVE WAFER END**


Reference	DN	Dimensions mm							Weight kg
		A	B	ØD	H	K	ØJ	L	
WBV2½	65	125	95	112	111	153	152	44,2	8,50
WBV3	80	140	100	120	111	153	152	45,3	8,60
WBV4	100	160	100	161	111	153	152	52,0	10,60
WBV5	125	170	125	182	111	153	152	54,4	11,80
WBV6	150	190	140	216	111	153	200	55,8	14,40
WBV8	200	230	175	260	126	210	300	60,5	25,70

Valve spare parts available upon request.





## Butterfly valves

Our indicating butterfly valves (grooved and wafer end) are intended for use in above ground sprinkler systems. They can be applied in wet and dry indoor and outdoor systems\*.

### Main characteristics:

- External indicator displaying the valve disc position.
- Manually operated with external gearbox.
- Maximum working pressure : 300 PSI/2068 kPa/20,7 barg.
- Pre-wired supervisory and auxiliary switch  
16 Amps @ AC250V/50-60Hz.
- Full traceability marking with metal tag.
- Available for installation between flanges (wafer type)  
or with grooved connections.
- Application as system-valve, sectional-valve or pump.
- Competitive price/quality ratio.
- Available from stock.



### Specifications:

Component	Material	Specification	European standard
Body	Ductile cast iron	ASTM A-536, grade 65-45-12	EN GJS 450-10
Housing	Ductile cast iron	ASTM A-536, grade 65-45-12	EN GJS 450-10
Disc	Ductile cast iron	ASTM A-536, grade 65-45-12	EN GJS 450-10
Rubber seat	EPDM	ASTM D2000	
Upper and lower stem	Stainless steel	AISI 420	X20Cr13
Worm gear and shaft	Stainless steel	AISI 304	X5CrNi18-10
Seal	EPDM	ASTM D2000	
Coating	Epoxy powder coating		

### Valve marking example:



\*For applications in corrosivity category C3 or higher please contact [info@profitings.eu](mailto:info@profitings.eu).

## PROFLEX SPRINKLER HOSES

### FLEXIBLE HOSE - BRAIDED

### FLEXIBLE HOSE - UNBRAIDED



### Proflex flexible sprinkler hoses

Our flexible sprinkler connections provide a simple and fast solution for use in automatic sprinkler systems.

#### Main characteristics:

- 100% tight welded, corrugated flexible tube and carbon steel connecting parts.
- Fast installation.
- Corrosion resistant thanks to the stainless steel tube and a zinc electroplated treatment on carbon steel connecting parts.
- Maximum working pressure: 200 PSI/13,8 barg at max. 66°C/150°F.  
Burst pressure of minimum 1.000 PSI/70 barg.
- Every hose is (leakage) tested to guarantee quality.
- High quality material.
- Vibration resistant.
- Lifelong durability.
- Available from stock.
- Each hose is marked with type-number, maximum working conditions and year of fabrication.
- Installation instructions included in each box.
- Supplied with lightweight galvanized bracket system for easy connection to suspended ceiling systems.
- Individual bracketry parts also available as separate items.
- For concealed sprinkler installations are long clamps available upon request.

The design and application of the flexible hoses are based on NFPA13/13D/13R and EN12845.  
The products are produced and tested according UL2443, FM1637 and VdS4001.


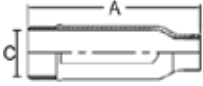
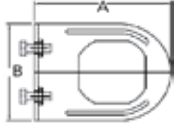
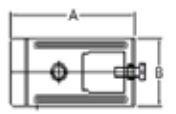
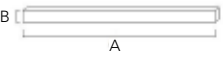


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## Dimensions of the Proflex hoses ①

Description	Hose reference	Hose internal diameter	Connections female thread	Total hose length	Active hose length
Unbraided hose 1000	PF1000UHM34P	26 mm	M34	840 mm	700 mm
Braided hose 1000	PF1000BHM34P				
Unbraided hose 1200	PF1200UHM34P	26 mm	M34	1040 mm	900 mm
Braided hose 1200	PF1200BHM34P				
Unbraided hose 1500	PF1500UHM34P	26 mm	M34	1340 mm	1200 mm
Braided hose 1500	PF1500BHM34P				



	Image	Piece	Dimensions				Weight kg	Thread
			Diameter	A	B	C		
②		Nipple	1"	65 mm 2,5 inch	BSPT 1"	-	0,13	Flexible hose side = M34 Mechanical tee side = BSPT
③		Reducer	1" - 1/2" 1" - 3/4"	110 mm/4,4 inch 110 mm/4,4 inch	M34 x 1,5	25 mm/0.98 inch 30 mm/1.18 inch	0,238	NPT 1/2" NPT 3/4"
④		Bracket	-	64,5 mm 2,54 inch	50 mm 1,97 inch	-	0,067	-
⑤		Clamp Long clamp	-	59,5 mm/2,34 inch 105 mm/4,14 inch	30,2 mm/1,19 inch 30,2 mm/1,19 inch	-	0,040 0,075	-
⑥		Bar	-	700 mm/27,6 inch	15x15 mm/0,59 inch	-	0,245	-

### Order reference for the Proflex full set

- Flexible hose (size 1000, 1200 or 1500).
- Nipple.
- Reducer (size 1/2" or 3/4")
- Brackets.
- Clamp.
- Bar.

Set reference	Hoses	Hose internal diameter	Outlet-nipple (sprinkler connection)	Total assembly length
PF-UH1000-M34BSPT1/2	Unbraided hose	26 mm	1/2"	1000 mm
PF-BH1000-M34BSPT1/2	Braided hose			
PF-UH1000-M34BSPT3/4	Unbraided hose	26 mm	3/4"	1000 mm
PF-BH1000-M34BSPT3/4	Braided hose			
PF-UH1200-M34BSPT1/2	Unbraided hose	26 mm	1/2"	1200 mm
PF-BH1200-M34BSPT1/2	Braided hose			
PF-UH1200-M34BSPT3/4	Unbraided hose	26 mm	3/4"	1200 mm
PF-BH1200-M34BSPT3/4	Braided hose			
PF-UH1500-M34BSPT1/2	Unbraided hose	26 mm	1/2"	1500 mm
PF-BH1500-M34BSPT1/2	Braided hose			
PF-UH1500-M34BSPT3/4	Unbraided hose	26 mm	3/4"	1500 mm
PF-BH1500-M34BSPT3/4	Braided hose			

### Order reference and material specification for the individual Proflex parts



Reference	Components	Materials
PF1000BHM34P	Braided hose Rubber gaskets Hexagon slip nut (M34)	Flexible corrugated tube, stainless steel, AISI 304, 1.4301 Single outer braid, stainless steel, AISI 304, 1.4301 Nitrile butadiene rubber Carbon steel
PF1200BHM34P		
PF1500BHM34P		
PF1000UHM34P	Unbraided hose Rubber gaskets Hexagon slip nut (M34)	Flexible corrugated tube, stainless steel, AISI 304, 1.4301 Nitrile butadiene rubber Carbon steel
PF1200UHM34P		
PF1500UHM34P		
PF-NPL-STM34BSPTP	Nipple	Carbon steel
PF-STR-NPT-1/2M34P	Reducer	Carbon steel
PF-STR-NPT-3/4M34P		
PF-STBP	Bracket	Carbon steel
PF-STC-SP	Clamp Bolts & screws	Carbon steel
PF 700 BP	Bar	Carbon steel

Proflex parts are sold per box of 20 pieces.



# GROOVED PRODUCTS - OVERVIEW

PRODUCTS



GROOVED RIGID COUPLING



GROOVED FLEXIBLE COUPLING



U-BOLT SPRINKLER TEE  
THREADED BSPT OUTLET



FULL CASTING SPRINKLER TEE  
THREADED BSPT OUTLET



MECHANICAL TEE  
GROOVED OUTLET



MECHANICAL TEE  
THREADED BSPT OUTLET



GROOVED ELBOW 11,25°



GROOVED ELBOW 22,50°



GROOVED ELBOW 45°



GROOVED ELBOW 90°



GROOVED EQUAL TEE



GROOVED CONCENTRIC REDUCER



GROOVED END CAP



GROOVED END CAP WITH  
ECCENTRIC HOLE, THREADED BSPT



GROOVED ADAPTOR FLANGE



GROOVED SPLIT  
ADAPTOR FLANGE

## GROOVED PRODUCTS - MATERIALS

### Housing & fitting



Our standard housings and fittings are made of ductile iron conform to ASTM A-536, Grade 65-45-12.

This material has a minimum tensile strength of 65.000 PSI (448MPa), a minimum yield strength of 45.000 PSI (310MPa) and minimum 12 % elongation.

### EPDM gaskets

Profit's EPDM gaskets comply with the international certifications and have undergone the aging test at 110°C (230°F) during a period of 45 days (1080 hours). The gaskets have even undergone the freezing test at -40°C (-40°F) during a period of 4 days (96 hours).



Compound: EPDM, silicon-free

Color: black

Working temperature: -34°C to +110°C

### Coating



EPD Epoxy coating in RAL 3000 (red) or RAL 9010 (white), or hot dip galvanized.

- Profit coated products are intended for indoor piping applications (EN 12944-2 corrosivity category C1&C2).
- For outdoor installations near the sea (corrosivity category C3) we advise to use our hot dip galvanized couplings and fittings.
- For application in higher salinity climate (corrosivity category C4) or higher, please contact [info@profitings.eu](mailto:info@profitings.eu).
- Profit couplings and fittings must be stored in closed and dry environments.

### Bolts and nuts



Heat resistant, zinc electroplated bolts and nuts made of carbon steel, conform to ASTM A183/ISO 898. Please check our technical data sheet for more information.

Please observe the following procedures when using torque wrenches during installation of piping components on construction sites:

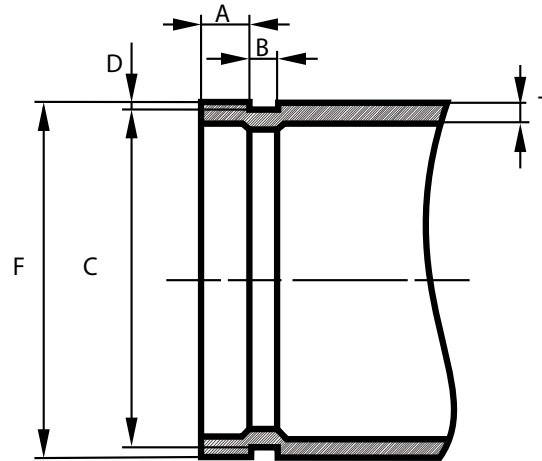
1. Make sure that the coupling housings are located in the pipe grooves and are over the lubricated gasket.
2. Insert bolts and run nuts finger tight.
3. Securely tighten nuts alternately and equally until fully tightened, keeping the gap at the bolt pad evenly spaced.

#### Note:

- Uneven tightening of bolts may damage the gasket.
- Lubricant should be applied at time of joint assembly.
- On piping installations operating at higher working pressures or within critical locations or environments, the use of a proprietary torque wrench is recommended.

## ROLL GROOVE SPECIFICATIONS

**Specifications of the pipe:** rolling or cutting groove is allowed for the pipe corresponding to the fittings and couplings. The outer diameter must be suitable for the intended service. Make sure the size of the groove is within the scope of the standard tolerance. Rolled groove sizes are stated in the table below.



Nominal pipe size		Outside diameter			Gasket seat A	Groove width B	Groove diameter C		Groove depth* D	Minimum thickness T	Maximum outspread F
NPS (DN)	Size mm	+ mm	- mm	Tolerance +0,4 / -0,8 mm	Tolerance +0,8 / -0,4 mm	Size	Tolerance mm	mm	mm	mm	
1	25	33,7	0,41	0,68	15,9	7,1	30,2	+0/-0,3	1,6	2,77	34,5
1¼	32	42,4	0,50	0,60	15,9	7,1	39,0	+0/-0,4	1,6	2,77	43,3
1½	40	48,3	0,44	0,52	15,9	7,1	45,1	+0/-0,4	1,6	2,77	49,4
2	50	60,3	0,61	0,61	15,9	8,7	57,2	+0/-0,4	1,6	2,77	62,2
2½	65	76,1	0,76	0,76	15,9	8,7	72,3	+0/-0,4	2,0	3,05	77,7
3	80	88,9	0,89	0,79	15,9	8,7	84,9	+0/-0,4	2,0	3,05	90,6
4	100	114,3	1,14	0,79	15,9	8,7	110,1	+0/-0,5	2,2	3,05	116,2
5	125	139,7	1,40	0,79	15,9	8,7	135,5	+0/-0,5	2,2	3,40	141,7
6	150	168,3	1,60	0,79	15,9	8,7	164,0	+0/-0,6	2,2	3,40	170,7
8	200	219,1	1,60	0,79	19,1	11,9	214,4	+0/-0,6	2,4	4,77	221,5
10	250	273,0	1,60	0,79	19,1	11,9	268,3	+0/-0,7	2,4	4,77	275,4
12	300	323,9	1,60	0,79	19,1	11,9	318,3	+0/-0,8	2,8	4,77	328,2

According to standard AWWA C606-06

\* Groove depth 'D' is only a reference dimension. Groove diameter 'C' must be maintained.

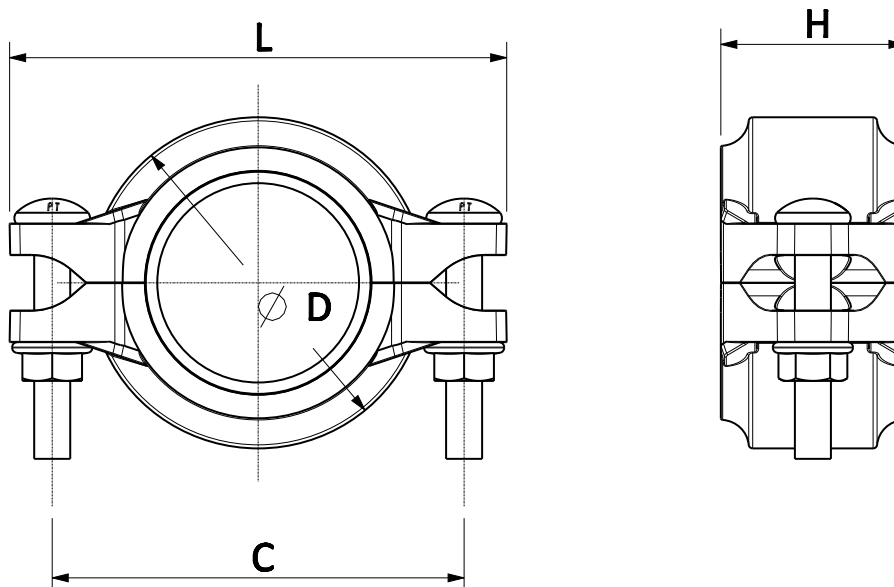


## GROOVED RIGID COUPLING



PRODUCTS

Reference			Nom. size	Pipe Ø O.D.	Dimensions				Bolt size	Socket wrench	Torque	Weight
Red	Galva	White	DN mm	mm	Ø D mm	L mm	H mm	C mm	d1xL mm	mm	Nm	kg
GKSR1	GKSG1	GKSW1	25	33,7	55,0	97,0	45	73	M10x40	15	44-54	0,45
GKSR1¼	GKSG1¼	GKSW1¼	32	42,4	63,5	107,5	45	84	M10x50	15	44-54	0,54
GKSR1½	GKSG1½	GKSW1½	40	48,3	69,0	114,0	45	90	M10x50	15	44-54	0,56
GKSR2	GKSG2	GKSW2	50	60,3	83,6	124,0	46	102	M10x60	15	44-54	0,71
GKSR2½	GKSG2½	GKSW2½	65	76,1	98,0	139,0	46	115	M10x60	15	44-54	0,79
GKSR3	GKSG3	GKSW3	80	88,9	114,0	156,0	46	132	M10x60	15	44-54	0,95
GKSR4	GKSG4	GKSW4	100	114,3	142,0	189,0	50	162	M12x70	18	90-100	1,42
GKSR5	GKSG5	GKSW5	125	139,7	170,0	222,0	50	192	M12x70	18	90-100	1,78
GKSR6	GKSG6	GKSW6	150	168,3	198,0	251,0	50	222	M12x75	18	90-100	2,11
GKSR8	GKSG8	GKSW8	200	219,1	256,0	316,0	60	282	M16x85	24	200-230	3,90
GKSR10	GKSG10	GKSW10	250	273,0	319,0	319,0	64	352	M20x100	30	270-300	6,18
GKSR12	not available	not available	300	323,9	374,0	453,0	65	410	M20x130	30	270-300	8,60



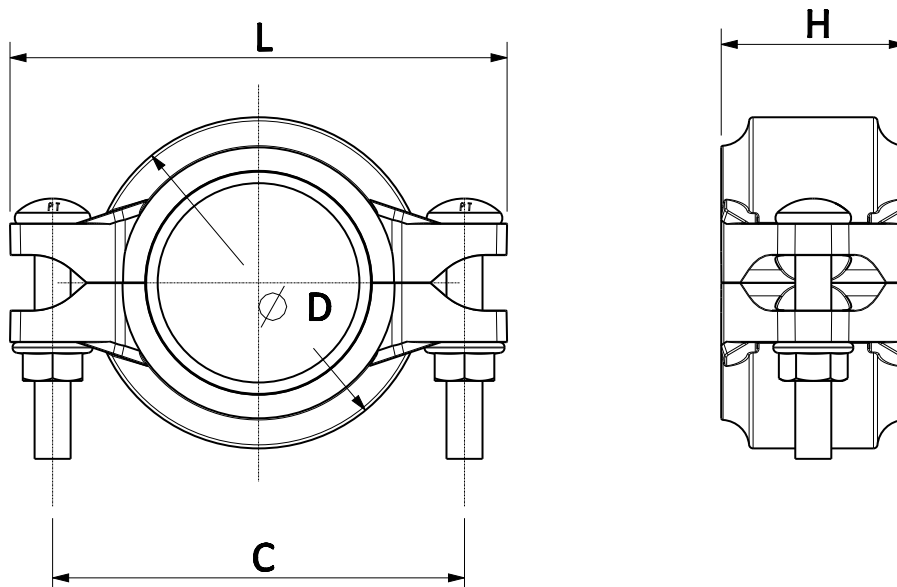




## GROOVED FLEXIBLE COUPLING

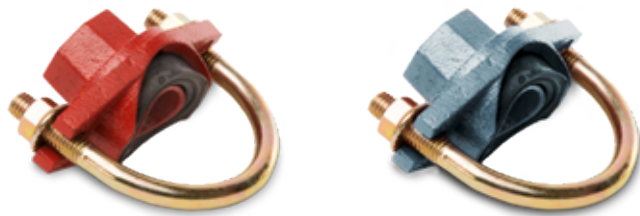


Reference		Nom. size	Pipe Ø O.D.	Dimensions				Bolt size	Socket wrench	Torque	Weight
Red	Galva	DN mm	mm	Ø D mm	L mm	H mm	C mm	d1xL mm	mm	Nm	kg
GKFR1	GKFG1	25	33,7	55,0	97,0	45	73	M10x40	15	44-54	0,44
GKFR1¼	GKFG1¼	32	42,4	64,0	107,5	45	84	M10x50	15	44-54	0,50
GKFR1½	GKFG1½	40	48,3	69,0	114,0	45	90	M10x50	15	44-54	0,54
GKFR2	GKFG2	50	60,3	83,6	124,0	46	102	M10x60	15	44-54	0,68
GKFR2½	GKFG2½	65	76,1	98,0	139,0	46	115	M10x60	15	44-54	0,79
GKFR3	GKFG3	80	88,9	114,0	156,0	46	132	M10x60	15	44-54	0,96
GKFR4	GKFG4	100	114,3	142,0	189,0	50	162	M12x70	18	90-100	1,39
GKFR5	GKFG5	125	139,7	170,0	222,0	50	192	M12x70	18	90-100	1,92
GKFR6	GKFG6	150	168,3	198,0	251,0	50	222	M12x75	18	90-100	2,12
GKFR8	GKFG8	200	219,1	256,0	316,0	60	282	M16x85	24	200-230	3,82
GKFR10	GKFG10	250	273,0	319,0	393,0	64	352	M20x100	30	270-300	6,52
GKFR12	not available	300	323,9	374,0	453,0	65	410	M20x130	30	270-300	8,55



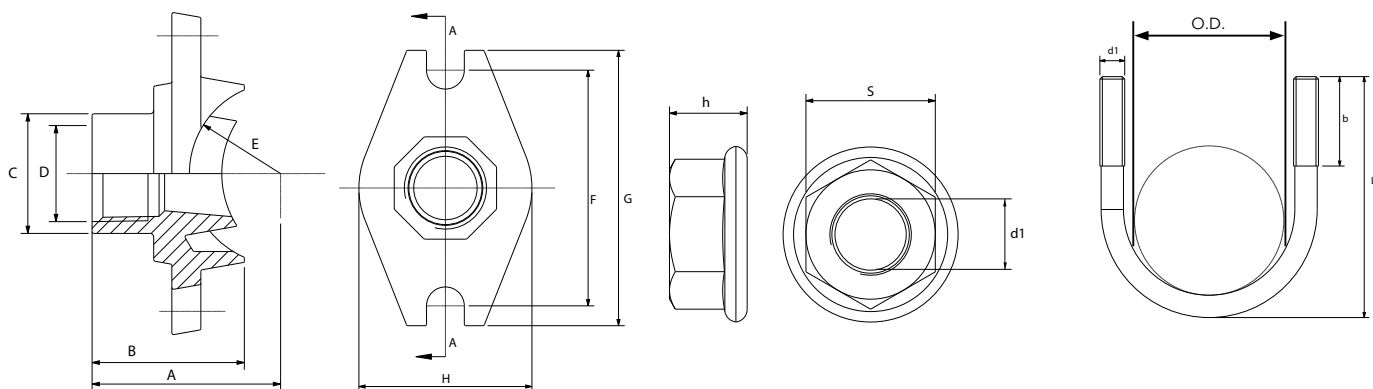


U-BOLT SPRINKLER TEE THREADED BSPT OUTLET

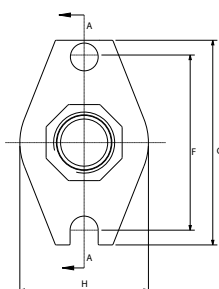


PRODUCTS

Reference		Nom. size	Pipe Ø O.D.	Dimensions								Hole cut*	Bolt size	Socket wrench	Torque	Weight
Red	Galva	DN mm	mm	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	mm	d1xL mm	mm	Nm	kg
GSTR1-1/2	GST1-1/2	25-15	33,7 - 21,3	30	30	29	1/2"	17,7	60	74	44	24+1	M8x44	13	25-30	0,20
GSTR1¼-1/2	GST1¼-1/2	32-15	42,4 - 21,3	50	46	28	1/2"	22,2	76	89	56	30+1	M10x78	15	44-54	0,47
GSTR1¼-¾	GST1¼-¾	32-20	42,4 - 26,9	53	49	33	¾"	22,2	76	89	56	30+1	M10x78	15	44-54	0,46
GSTR1¼-1	GST1¼-1	32-25	42,4 - 33,7	58	54	40	1"	22,3	76	89	56	30+1	M10x78	15	44-54	0,48
GSTR1½-1/2	GST1½-1/2	40-15	48,3 - 21,3	49	39	28	1/2"	25,15	76	89	56	30+1	M10x78	15	44-54	0,40
GSTR1½-¾	GST1½-¾	40-20	48,3 - 26,9	52	42	33	¾"	25,16	76	89	56	30+1	M10x78	15	44-54	0,40
GSTR1½-1	GST1½-1	40-25	48,3 - 33,7	57	45	40	1"	25,16	76	89	56	30+1	M10x78	15	44-54	0,41
GSTR2-1/2	GST2-1/2	50-15	60,3 - 21,3	63	36,6	28	1/2"	31,2	78	98	56	30+1	M10x92	15	44-54	0,46
GSTR2-¾	GST2-¾	50-20	60,3 - 26,9	63	39,6	33	¾"	31,2	78	98	56	30+1	M10x92	15	44-54	0,46
GSTR2-1	GST2-1	50-25	60,3 - 33,7	66	44,6	40	1"	31,2	78	98	56	30+1	M10x92	15	44-54	0,47



Please note that the following design is used for 2" U-bolt sprinkler tees:



U bolt sprinkler tee
BST
1-1/2
Hole cut dimension
24(+1mm)

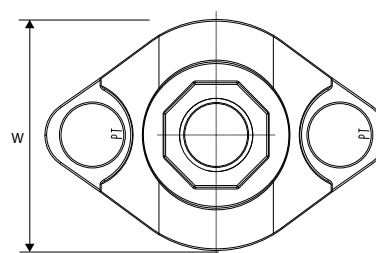
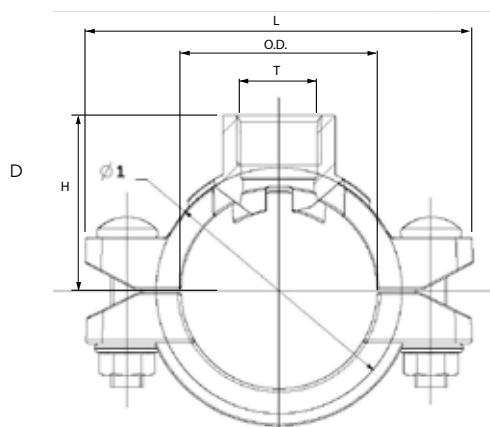
**TYVEK LABEL EXAMPLE**

- \* Please note that the **correct hole cut dimension** is mentioned:
  - on the Tyvek label which is attached to the product itself
  - on the document called 'Hole cut dimensions', which is added to each delivery from our warehouse Profit Europe NV, Belgium. This document is attached to the outside of the first box in a plastic pouch with reference 'Documents enclosed'

## FULL CASTING SPRINKLER TEE THREADED BSPT OUTLET



Reference		Nom. size	Pipe Ø O.D. - T	Dimensions				Hole cut*	Bolt size	Socket wrench	Torque	Weight
Red	Galva	DN mm	mm	L mm	H mm	W mm	Ø D mm	mm	d1xL mm	mm	Nm	kg
GSTFCR1¼-½	GSTFCG1¼-½	32-15	42,4 - 21,3	98	42,5	65	52	30+1	M10x40	15	44-54	0,42
GSTFCR1¼-¾	GSTFCG1¼-¾	32-20	42,4 - 26,9	98	42,5	65	52	30+1	M10x40	15	44-54	0,46
GSTFCR1¼-1	GSTFCG1¼-1	32-25	42,4 - 33,7	98	51,5	65	52	30+1	M10x40	15	44-54	0,50
GSTFCR1½-½	GSTFCG1½-½	40-15	48,3 - 21,3	105,6	46,5	65	57,5	30+1	M10x40	15	44-54	0,44
GSTFCR1½-¾	GSTFCG1½-¾	40-20	48,3 - 21,3	105,6	46,5	65	57,5	30+1	M10x40	15	44-54	0,40
GSTFCR1½-1	GSTFCG1½-1	40-25	48,3 - 33,7	105,6	54,5	65	57,5	30+1	M10x40	15	44-54	0,52
GSTFCR2-½	GSTFCG2-½	50-15	60,3 - 21,3	120	52	56	76	30+1	M10x60	15	44-54	0,64
GSTFCR2-¾	GSTFCG2-¾	50-20	60,3 - 26,9	120	52	56	76	30+1	M10x60	15	44-54	0,68
GSTFCR2-1	GSTFCG2-1	50-25	60,3 - 33,7	120	52	64	85	38+1	M10x60	15	44-54	0,77
GSTFCR2½-½	GSTFCG2½-½	65-15	76,1 - 21,3	139	59	56	93	30+1	M10x60	15	44-54	0,77
GSTFCR2½-¾	GSTFCG2½-¾	65-20	76,1 - 26,9	139	59	56	93	30+1	M10x60	15	44-54	0,79
GSTFCR2½-1	GSTFCG2½-1	65-25	76,1 - 33,7	139	60	64	99	38+1	M10x60	15	44-54	0,88



Full casting sprinkler tee	
GSTFC	
1¼-½	1½-1
1¼-¾	2-½
1¼-1	2-¾
1½-½	2½-½
1½-¾	2½-¾
Hole cut dimension 30(+1mm)	



# CHRYSSAFIDIS

### TYVEK LABEL EXAMPLE

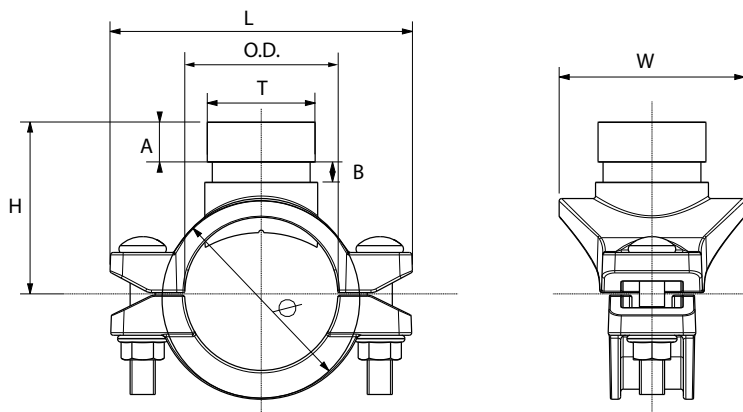
- \* Please note that the **correct hole cut dimension** is mentioned:
- on the Tyvek label which is attached to the product itself
  - on the document called 'Hole cut dimensions', which is added to each delivery from our warehouse Profit Europe NV, Belgium. This document is attached to the outside of the first box in a plastic pouch with reference 'Documents enclosed'

## MECHANICAL TEE GROOVED OUTLET



Reference		Nom. size	Pipe Ø O.D. - T	Dimensions						Work. press.	Hole cut*	Bolt size	Socket wrench	Bolt torque	Weight
Red	Galva	DN mm	mm	Ø mm	L mm	H mm	W mm	A mm	B mm	PSI	mm	d1xL mm	mm	Nm	kg
GMGR2-1¼	GMGG2-1¼	50-32	60,3 - 42,4	85	120	70	72	15,9	7,9	300	46+1	M10x50	15	44-54	0,91
GMGR2-1½	GMGG2-1½	50-40	60,3 - 48,3	85	120	70	79	15,9	7,9	300	46+1	M10x50	15	44-54	0,94
GMGR2½-1¼	GMGG2½-1¼	65-32	76,1 - 42,4	99	139	73	72	15,9	7,9	300	46+1	M10x60	15	44-54	1,02
GMGR2½-1½	GMGG2½-1½	65-40	76,1 - 48,3	99	139	75	79	15,9	7,9	300	53+1	M10x60	15	44-54	1,07
GMGR3-1¼	GMGG3-1¼	80-32	88,9 - 42,4	113	155	82	72	15,9	7,9	300	46+1	M10x60	15	44-54	1,12
GMGR3-1½	GMGG3-1½	80-40	88,9 - 48,3	113	155	82	79	15,9	7,9	300	53+1	M10x60	15	44-54	1,14
GMGR3-2	GMGG3-2	80-50	88,9 - 60,3	113	155	82	90	15,9	7,9	300	64+1	M10x60	15	44-54	1,35
GMGR4-1¼	GMGG4-1¼	100-32	114,3 - 42,4	139	181	95,5	72	15,9	7,9	300	46+1	M12x70	18	90-100	1,37
GMGR4-1½	GMGG4-1½	100-40	114,3 - 48,3	139	181	95,5	79	15,9	7,9	300	53+1	M12x70	18	90-100	1,41
GMGR4-2	GMGG4-2	100-50	114,3 - 60,3	139	181	95,5	90	15,9	7,9	300	64+1	M12x70	18	90-100	1,53
GMGR4-2½	GMGG4-2½	100-65	114,3 - 76,1	139	181	99	117	15,9	7,9	300	70+1	M12x70	18	90-100	1,86
GMGR4-3	GMGG4-3	100-80	114,3 - 88,9	139	181	96	130	15,9	7,9	175	89+1	M12x75	18	90-100	2,04
GMGR5-2	GMGG5-2	125-50	139,7 - 60,3	167	212	110	90	15,9	7,9	300	64+1	M16x85	24	200-230	1,96
GMGR5-2½	GMGG5-2½	125-65	139,7 - 76,1	168	212	113	117	15,9	7,9	300	70+1	M16x85	24	200-230	2,44
GMGR6-1¼	GMGG6-1¼	150-32	168,3 - 42,4	194	248	125	72	15,9	7,9	300	46+1	M16x85	24	200-230	2,51
GMGR6-1½	GMGG6-1½	150-40	168,3 - 48,3	194	248	125	79	15,9	7,9	300	53+1	M16x85	24	200-230	2,53
GMGR6-2	GMGG6-2	150-50	168,3 - 60,3	194	248	126	90	15,9	7,9	300	64+1	M16x85	24	200-230	2,54
GMGR6-2½	GMGG6-2½	150-65	168,3 - 76,1	194	248	127	117	15,9	7,9	300	70+1	M16x85	24	200-230	2,87
GMGR6-3	GMGG6-3	150-80	168,3 - 88,9	194	248	127	136	15,9	7,9	175	89+1	M16x85	24	200-230	3,00
GMGR6-4	GMGG6-4	150-100	168,3 - 114,3	194	248	127	162	15,9	9,5	175	114+1	M16x85	24	200-230	3,47
GMGR8-2½	GMGG8-2½	200-65	219,1 - 76,1	248	311	154	117	15,9	7,9	300	70+1	M16x85	24	200-230	3,93
GMGR8-3	GMGG8-3	200-80	219,1 - 88,9	248	311	154	136	15,9	7,9	300	89+1	M16x85	24	200-230	4,13

For tolerances on groove dimensions, see table page 15.



Mechanical tee GMG (Grooved)	
4-2½	5-2½
6-2½	8-2½
Hole cut dimension 70(+1mm)	

### TYVEK LABEL EXAMPLE

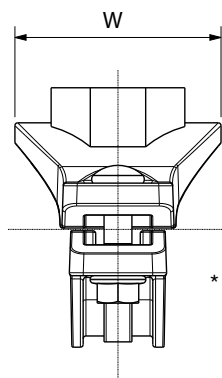
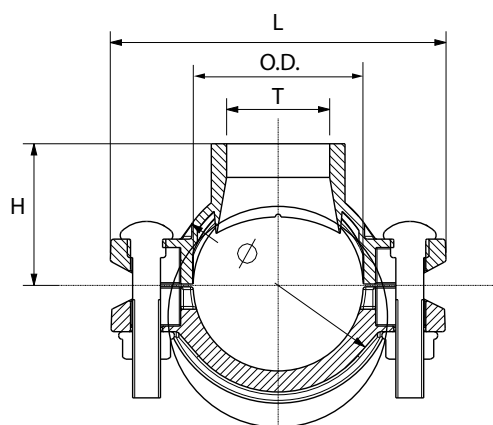
- \* Please note that the **correct hole cut dimension** is mentioned:
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## MECHANICAL TEE THREADED BSPT OUTLET



Reference		Nom. size	Pipe Ø O.D. - T	Dimensions				Hole cut*	Bolt size	Socket wrench	Bolt torque	Weight
Red	Galva	DN mm	mm	L mm	H mm	W mm	Ø mm	mm	d1xL mm	mm	Nm	kg
GMDR2-1¼	GMDG2-1¼	50-32	60,3 - 42,4	120	55	72	85	45+1	M10x50	15	44-54	0,86
GMDR2-1½	GMDG2-1½	50-40	60,3 - 48,3	120	63	79	85	46+1	M10x50	15	44-54	0,95
GMDR2½-1¼	GMDG2½-1¼	65-32	76,1 - 42,4	139	60	72	99	46+1	M10x60	15	44-54	0,96
GMDR2½-1½	GMDG2½-1½	65-40	76,1 - 48,3	139	60	79	99	53+1	M10x60	15	44-54	0,99
GMDR3-1	GMDG3-1	80-25	88,9 - 33,7	155	67	64	113	38+1	M10x60	15	44-54	0,99
GMDR3-1¼	GMDG3-1¼	80-32	88,9 - 42,4	155	67	72	113	46+1	M10x60	15	44-54	1,04
GMDR3-1½	GMDG3-1½	80-40	88,9 - 48,3	155	67	79	113	53+1	M10x60	15	44-54	1,10
GMDR3-2	GMDG3-2	80-50	88,9 - 60,3	155	67	90	113	64+1	M10x60	15	44-54	1,23
GMDR4-1	GMDG4-1	100-25	114,3 - 33,7	181	79	64	139	38+1	M12x70	18	90-100	1,22
GMDR4-1¼	GMDG4-1¼	100-32	114,3 - 42,4	181	79	72	139	46+1	M12x70	18	90-100	1,24
GMDR4-1½	GMDG4-1½	100-40	114,3 - 48,3	181	79	79	139	53+1	M12x70	18	90-100	1,31
GMDR4-2	GMDG4-2	100-50	114,3 - 60,3	181	79	90	139	64+1	M12x70	18	90-100	1,40
GMDR4-2½	GMDG4-2½	100-65	114,3 - 76,1	181	100	117	138	70+1	M12x70	18	90-100	1,96
GMDR6-1¼	GMDG6-1¼	150-32	168,3 - 42,4	248	106	72	196	46+1	M16x85	24	200-230	2,36
GMDR6-1½	GMDG6-1½	150-40	168,3 - 48,3	248	106	79	196	53+1	M16x85	24	200-230	2,36
GMDR6-2	GMDG6-2	150-50	168,3 - 60,3	248	106	90	196	64+1	M16x85	24	200-230	2,43
GMDR6-2½	GMDG6-2½	150-65	168,3 - 76,1	248	128	117	194	70+1	M16x85	24	200-230	2,40



Mechanical tee GMD (Threaded)	
2-11/4	3-11/4
2-11/2	4-11/4
21/2-11/4	6-11/4
Hole cut dimension 46(+1mm)	

## TYVEK LABEL EXAMPLE

- \* Please note that the **correct hole cut dimension** is mentioned:
- on the Tyvek label which is attached to the product itself
  - on the document called 'Hole cut dimensions', which is added to each delivery from our warehouse Profit Europe NV, Belgium. This document is attached to the outside of the first box in a plastic pouch with reference 'Documents enclosed'

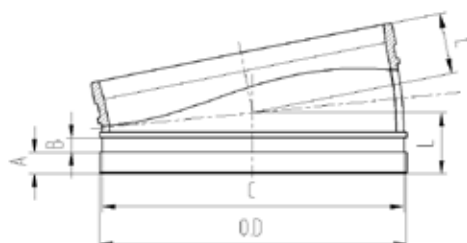


## GROOVED ELBOW 11,25°



Reference	Nominal size	Pipe Ø O.D.	Dimensions				Weight
			L mm	A mm	B mm	C mm	
Red	DN mm	mm					kg
GB11R2	50	60,3	35	15,9	7,9	57,2	0,40
GB11R2½	65	76,1	38	15,9	7,9	72,3	0,72
GB11R3	80	88,9	38	15,9	7,9	84,9	0,75
GB11R4	100	114,3	45	15,9	9,5	110,1	1,25
GB11R6	150	168,3	51	15,9	9,5	164,0	2,68
GB11R8	200	219,1	51	19,1	11,1	214,4	3,50

For tolerances on groove dimensions, see table page 15.

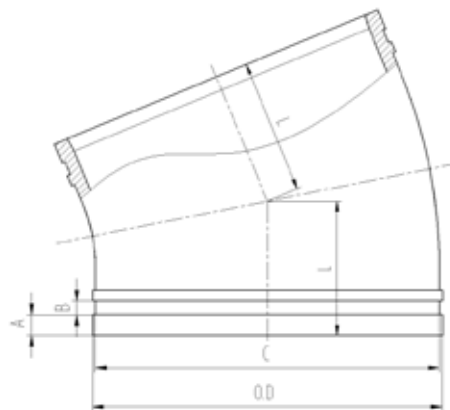


## GROOVED ELBOW 22,50°



Reference	Nominal size	Pipe Ø <sub>O.D.</sub>	Dimensions				Weight
			L	A	B	C	
Red	DN mm	mm	L mm	A mm	B mm	C mm	kg
GB22R2	50	60,3	48	15,9	7,9	57,2	0,50
GB22R2½	65	76,1	51	15,9	7,9	72,3	0,91
GB22R3	80	88,9	57	15,9	7,9	84,9	1,10
GB22R4	100	114,3	73	15,9	9,5	110,1	1,65
GB22R6	150	168,3	79	15,9	9,5	164,0	3,72
GB22R8	200	219,1	98	19,1	11,1	214,4	5,60

For tolerances on groove dimensions, see table page 15.



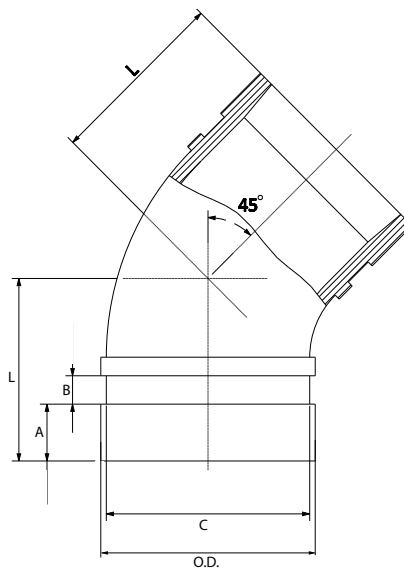


## GROOVED ELBOW 45°



Reference		Nominal size	Pipe Ø O.D.	Dimensions				Weight
Red	Galva	DN mm	mm	L mm	A mm	B mm	C mm	kg
GB45R1	GB45G1	25	33,7	45	15,9	7,9	30,2	0,22
GB45R1¼	GB45G1¼	32	42,4	45	15,9	7,9	39,0	0,30
GB45R1½	GB45G1½	40	48,3	45	15,9	7,9	45,1	0,34
GB45R2	GB45G2	50	60,3	51	15,9	7,9	57,2	0,56
GB45R2½	GB45G2½	65	76,1	62	15,9	7,9	72,3	0,96
GB45R3	GB45G3	80	88,9	70	15,9	7,9	84,9	1,15
GB45R4	GB45G4	100	114,3	76	15,9	9,5	110,1	1,81
GB45R5	GB45G5	125	139,7	83	15,9	9,5	135,5	2,70
GB45R6	GB45G6	150	168,3	89	15,9	9,5	164,0	3,83
GB45R8	GB45G8	200	219,1	108	19,1	11,1	214,4	6,46
GB45R10	GB45G10	250	273,0	121	19,1	12,7	268,3	9,90
GB45R12	not available	300	323,9	135	19,1	12,7	318,3	12,81

For tolerances on groove dimensions, see table page 15.





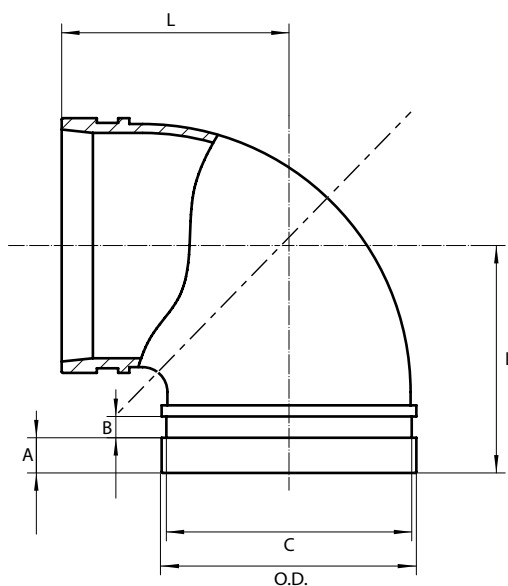


## GROOVED ELBOW 90°



Reference			Nominal size	Pipe Ø O.D.	Dimensions				Weight
Red	Galva	White			DN mm	mm	L mm	A mm	
GB90R1	GB90G1	GB90W1	25	33,7	57	15,9	7,9	30,2	0,29
GB90R1¼	GB90G1¼	GB90W1¼	32	42,4	70	15,9	7,9	39,0	0,42
GB90R1½	GB90G1½	GB90W1½	40	48,3	70	15,9	7,9	45,1	0,48
GB90R2	GB90G2	GB90W2	50	60,3	70	15,9	7,9	57,2	0,60
GB90R2½	GB90G2½	GB90W2½	65	76,1	76	15,9	7,9	72,3	0,85
GB90R3	GB90G3	GB90W3	80	88,9	85	15,9	7,9	84,9	1,13
GB90R4	GB90G4	GB90W4	100	114,3	102	15,9	9,5	110,1	1,85
GB90R5	GB90G5	GB90W5	125	139,7	121	15,9	9,5	135,5	3,01
GB90R6	GB90G6	GB90W6	150	168,3	140	15,9	9,5	164,0	4,75
GB90R8	GB90G8	GB90W8	200	219,1	175	19,1	11,1	214,4	8,18
GB90R10	GB90G10	GB90W10	250	273,0	215	19,1	12,7	268,3	15,34
GB90R12	not available	not available	300	323,9	220	19,1	12,7	318,3	16,87

For tolerances on groove dimensions, see table page 15.



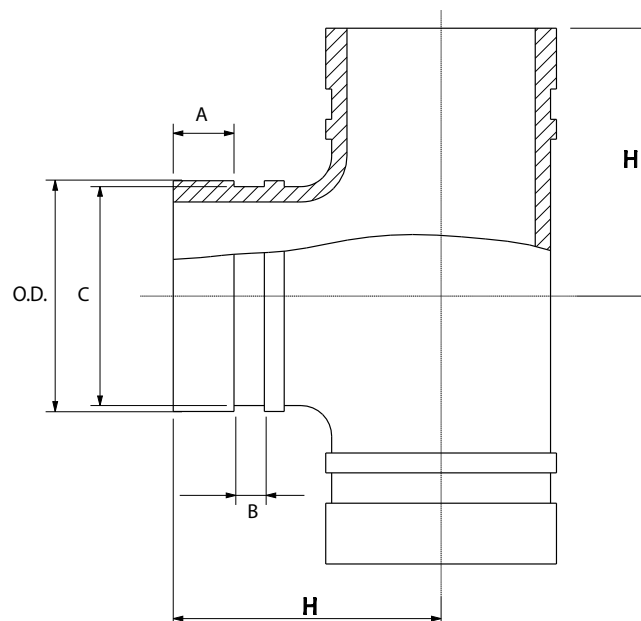


## GROOVED EQUAL TEE



Reference		Nominal size	Pipe Ø O.D.	Dimensions				Weight
Red	Galva	DN mm	mm	H mm	A mm	B mm	C mm	kg
GTR1	GTG1	25	33,7	57	15,9	7,9	30,2	0,40
GTR1¼	GTG1¼	32	42,4	70	15,9	7,9	39,0	0,60
GTR1½	GTG1½	40	48,3	70	15,9	7,9	45,1	0,74
GTR2	GTG2	50	60,3	70	15,9	7,9	57,2	0,92
GTR2½	GTG2½	65	76,1	76	15,9	7,9	72,3	1,45
GTR3	GTG3	80	88,9	85	15,9	7,9	84,9	1,82
GTR4	GTG4	100	114,3	102	15,9	9,5	110,1	2,57
GTR5	GTG5	125	139,7	121	15,9	9,5	135,5	4,63
GTR6	GTG6	150	168,3	140	15,9	9,5	160,9	6,40
GTR8	GTG8	200	219,1	175	19,1	11,1	164,0	12,53
GTR10	GTG10	250	273,0	215	19,1	12,7	268,3	17,40
GTR12	not available	300	323,9	220	19,1	12,7	318,3	24,89

For tolerances on groove dimensions, see table page 15.



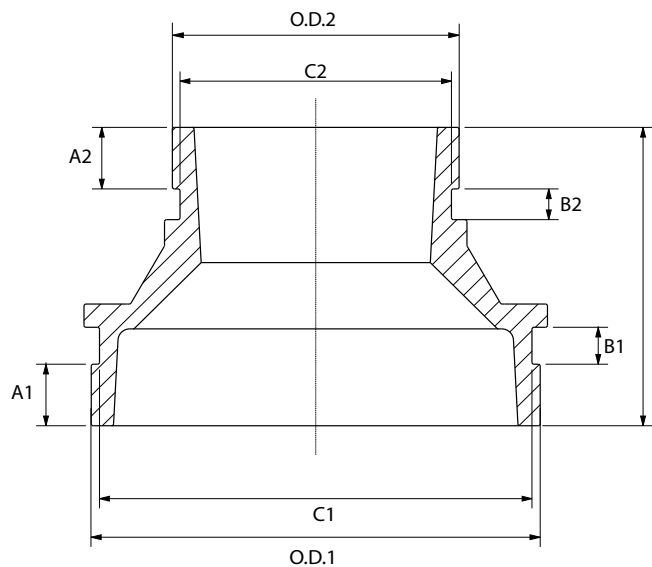


## GROOVED CONCENTRIC REDUCER



Reference		Nom. size	Pipe Ø O.D.	Dimensions							Weight
Red	Galva	DN mm	O.D.1-O.D.2 mm	L mm	A1 mm	A2 mm	B1 mm	B2 mm	C1 mm	C2 mm	kg
GRCR1½-1¼	GRCG1½-1¼	40-32	48,3 - 42,4	64	15,9	15,9	7,9	7,9	45,1	39,0	0,42
GRCR2-1½	GRCG2-1½	50-40	60,3 - 48,3	64	15,9	15,9	7,9	7,9	57,2	45,1	0,49
GRCR2½-1½	GRCG2½-1½	65-40	76,1 - 48,3	64	15,9	15,9	7,9	7,9	72,3	45,1	0,50
GRCR2½-2	GRCG2½-2	65-50	76,1 - 60,3	65	15,9	15,9	7,9	7,9	72,3	57,2	0,56
GRCR3-2	GRCG3-2	80-50	88,9 - 60,3	64	15,9	15,9	7,9	7,9	84,9	57,2	0,64
GRCR3-2½	GRCG3-2½	80-65	88,9 - 76,1	64	15,9	15,9	7,9	7,9	84,9	72,3	0,69
GRCR4-2	GRCG4-2	100-50	114,3 - 60,3	76	15,9	15,9	9,5	7,9	110,1	57,2	1,08
GRCR4-2½	GRCG4-2½	100-65	114,3 - 76,1	76	15,9	15,9	9,5	7,9	110,1	72,3	0,96
GRCR4-3	GRCG4-3	100-80	114,3 - 88,9	76	15,9	15,9	9,5	7,9	110,1	84,9	1,10
GRCR5-2	GRCG5-2	125-50	139,7 - 60,3	85	15,9	15,9	9,5	7,9	135,5	57,2	1,44
GRCR5-2½	GRCG5-2½	125-65	139,7 - 76,1	85	15,9	15,9	9,5	7,9	135,5	72,3	1,55
GRCR5-3	GRCG5-3	125-80	139,7 - 88,9	85	15,9	15,9	9,5	7,9	135,5	84,9	1,56
GRCR5-4	GRCG5-4	125-100	139,7 - 114,3	85	15,9	15,9	9,5	9,5	135,5	110,1	1,71
GRCR6-3	GRCG6-3	150-80	168,3 - 88,9	85	15,9	15,9	9,5	7,9	164,0	84,9	1,90
GRCR6-4	GRCG6-4	150-100	168,3 - 114,3	85	15,9	15,9	9,5	9,5	164,0	110,1	2,25
GRCR6-5	GRCG6-5	150-125	168,3 - 139,7	85	15,9	15,9	9,5	9,5	164,0	135,5	2,48
GRCR8-6	GRCG8-6	200-150	219,1 - 168,3	85	19,1	15,9	11,1	9,5	214,4	164,0	3,30

For tolerances on groove dimensions, see table page 15.



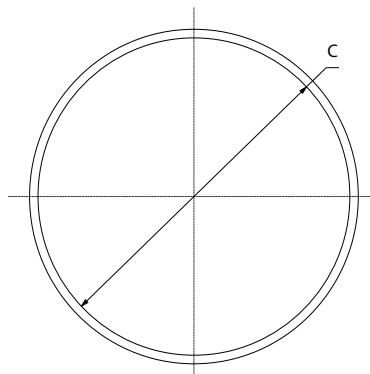
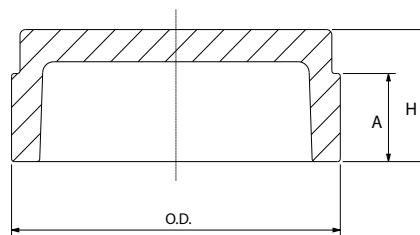


## GROOVED END CAP



Reference		Nominal size	Pipe Ø O.D.	Dimensions			Weight
Red	Galva	DN mm	mm	H mm	A mm	C mm	kg
GER1	GEG1	25	33,7	23,8	15,9	30,2	0,10
GER1¼	GEG1¼	32	42,4	23,8	15,9	39,0	0,13
GER1½	GEG1½	40	48,3	23,8	15,9	45,1	0,16
GER2	GEG2	50	60,3	23,8	15,9	57,2	0,24
GER2½	GEG2½	65	76,1	23,8	15,9	72,3	0,36
GER3	GEG3	80	88,9	23,8	15,9	84,9	0,43
GER4	GEG4	100	114,3	25,4	15,9	110,1	0,67
GER5	GEG5	125	139,7	25,4	15,9	135,5	1,13
GER6	GEG6	150	168,3	25,4	15,9	164,0	1,50
GER8	GEG8	200	219,1	30,2	19,1	214,4	2,94
GER10	GEG10	250	273,0	32,0	19,1	268,3	5,61

For tolerances on groove dimensions, see table page 15.



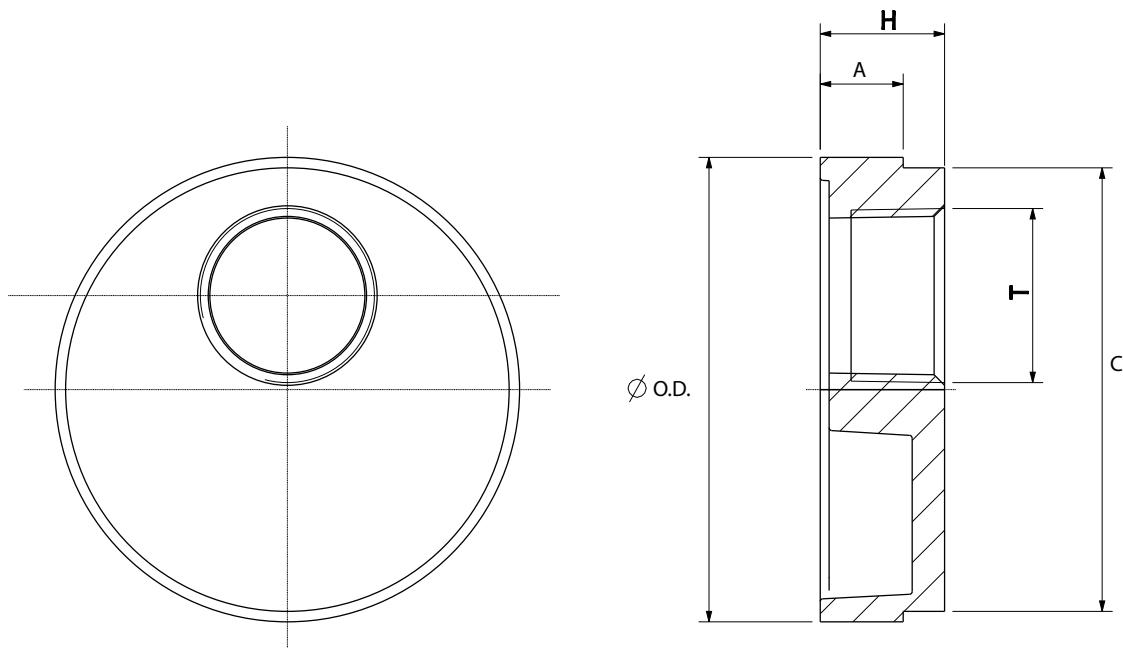


## GROOVED END CAP WITH ECCENTRIC HOLE, THREADED BSPT OUTLET



Reference		Nominal size	Pipe $\varnothing$ O.D. - T	Dimensions			Weight
Red	Galva	DN mm	mm	H mm	A mm	C mm	kg
GER2-1	GEG2-1	50-25	60,3 - 33,7	23,8	15,9	57,2	0,29
GER2-1½	GEG2-1½	50-40	60,3 - 48,3	23,8	15,9	57,2	0,18
GER2½-1	GEG2½-1	65-25	76,1 - 33,7	23,8	15,9	72,3	0,40
GER2½-1¼	GEG2½-1	65-32	76,1 - 42,4	23,8	15,9	72,3	0,40
GER2½-1½	GEG2½-1½	65-40	76,1 - 48,3	23,8	15,9	72,3	0,39
GER2½-2	GEG2½-2	65-50	76,1 - 60,3	23,8	15,9	72,3	0,28
GER3-1	GEG3-1	80-25	88,9 - 33,7	23,8	15,9	84,9	0,58
GER3-1¼	GEG3-1¼	80-32	88,9 - 42,4	23,8	15,9	84,9	0,56
GER3-1½	GEG3-1½	80-40	88,9 - 48,3	23,8	15,9	84,9	0,51
GER3-2	GEG3-2	80-50	88,9 - 60,3	23,8	15,9	84,9	0,52
GER4-2	GEG4-2	100-50	114,3 - 60,3	25,4	15,9	110,1	0,89
GER5-2	GEG5-2	125-50	139,7 - 60,3	25,4	15,9	135,5	1,24
GER6-2	GEG6-2	150-50	168,3 - 60,3	25,4	15,9	164,0	1,76
GER8-2	GEG8-2	200-50	219,1 - 60,3	30,2	19,1	214,4	3,13

For tolerances on groove dimensions, see table page 15.





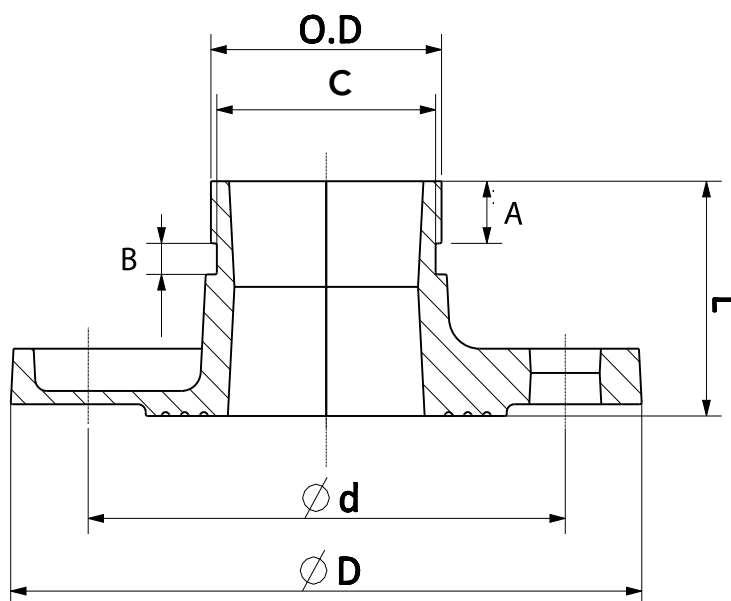
## GROOVED ADAPTOR FLANGE



PN 16 (EN 1092-2)

Reference		Nom. size	Pipe $\varnothing$ O.D.	Dimensions								Weight
Red	Galva	DN mm	mm	L mm	$\varnothing$ D mm	$\varnothing$ d mm	Holes n	Hole $\varnothing$ mm	C mm	A mm	B mm	kg
GAF16R2	GAF16G2	50	60,3	60	165	125	4	19	57,2	15,9	7,9	1,34
GAF16R2½	GAF16G2½	65	76,1	60	185	145	4	19	72,3	15,9	7,9	1,69
GAF16R3	GAF16G3	80	88,9	60	200	160	8	19	84,9	15,9	7,9	2,13
GAF16R4	GAF16G4	100	114,3	60	220	180	8	19	110,1	15,9	9,5	2,47
GAF16R5	GAF16G5	125	139,7	65	250	210	8	19	135,5	15,9	9,5	3,30
GAF16R6	GAF16G6	150	168,3	65	285	240	8	22	164,0	15,9	9,5	4,65
GAF16R8	GAF16G8	200	219,7	70	340	295	12	22	214,4	19,1	11,1	5,88

For tolerances on groove dimensions, see table page 15.





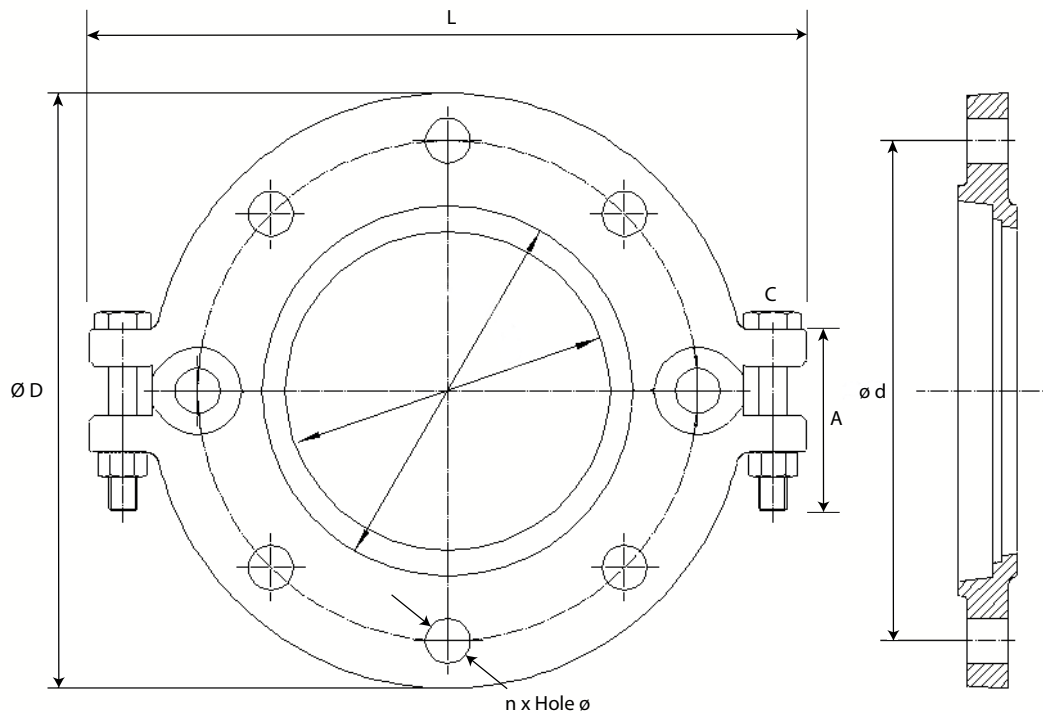
## GROOVED SPLIT ADAPTOR FLANGE



PN 16 (EN 1092-2)

Reference	Nom. size	Pipe Ø O.D.	Dimensions								Weight	
			L	Ø D	Ø d	Holes n	Hole Ø	C	A	S.W.		
Red	DN mm	mm	mm	mm	mm		mm	mm	mm	mm	mm	kg
GSF16R2	50	60,3	210	165	125	4	18	M10	70	15	1,64	
GSF16R2½	65	76,1	240	182	145	4	18	M10	70	15	2,16	
GSF16R3	80	88,9	250	194	160	8	18	M10	70	15	2,27	
GSF16R4	100	114,3	266	216	180	8	18	M10	70	15	2,48	
GSF16R6	150	168,3	336	282	240	8	22	M12	80	18	3,42	
GSF16R8	200	219,1	395	335	295	12	22	M12	80	18	6,00	

For tolerances on groove dimensions, see table page 15.





# EQUIVALENCE TABLE CHRYSSAFIDIS

Item	Product code			
	PROFIT reference	Product marking code	UL code	FM code
BUTTERFLY VALVE GROOVED END	GBV	GBV	GBV	GBV
BUTTERFLY VALVE WAFER END	WBV	WBV	WBV	WBV
GROOVED RIGID COUPLING	GKS	GKS	GKS	GKS
GROOVED FLEXIBLE COUPLING	GKF	GKF	GKF	GKF
U-BOLT SPRINKLER TEE	GST	41	41	41
FULL CASTING SPRINKLER TEE	GSTFC	L922	L922	L922
MECHANICAL TEE GROOVED OUTLET	GMG	GMG	GMG	GMG
MECHANICAL TEE THREADED BSPT OUTLET	GMD	GMD	GMD	GMD
GROOVED ELBOW 11,25°	GB11	GB11	GB11	GB11
GROOVED ELBOW 22,50°	GB22	GB11	GB11	GB11
GROOVED ELBOW 45°, SIZE 1", 1¼", 1½"	GB45	GB45	GB45	GB45
GROOVED ELBOW 45°, SIZE 2"-12"	GB45	45S	45S	45S
GROOVED ELBOW 90°, SIZE 1", 1¼", 1½"	GB90	90S	90S	90S
GROOVED ELBOW 90°, SIZE 2"-12"	GB90	GB90	GB90	GB90
GROOVED EQUAL TEE, SIZE 1", 1¼", 1½"	GT	GT	GT	GT
GROOVED EQUAL TEE, SIZE 2"-12"	GT	GTS	GTS	GTS
GROOVED CONCENTRIC REDUCER	GRC	GRC	GRC	GRC
GROOVED END CAP	GE	GE	GE	GE
GROOVED END CAP WITH ECCENTRIC HOLE	GE	GED	GED	GED
GROOVED ADAPTOR FLANGE PN16	GAF16	GAF16	GAF16	GAF16
GROOVED SPLIT FLANGE PN16	GSF16	XGQT09	XGQT09	XGQT09





# CHRYSSAFIDIS

## LUBRICANT



The best way to lubricate your gaskets before the installation of Profit couplings, is by using our lubricant. It is a soap based lubricant, especially formulated to enable the easy and fast installation of our couplings and fittings.

### Main characteristics

- Designed to provide lubrication on high pressure loadings to seal rubber gaskets.
- Appearance: white opaque grease.
- Solids content (expected based on moisture analyzer at 130°C): typically 28-37%.
- Melting point: typically 30°C.
- pH at 10%: 10,5 max.
- Density at 15°C: typically 1.0.
- Water solubility: dispersible.
- Biodegradable.

### General guidance:

- Ensure that the pipe is clean and free of debris prior to the application of Profit lubricant.
- Apply Profit lubricant on the inside of the gasket and the interior side of the housings.
- Re-lubricate the pipe if the lubricant film becomes contaminated.
- Apply by means of a brush, sponge or swab, please use our Profit Industrial gloves.

### Storage

- Storage class: chemical storage.
- Keep containers tightly shut and out of direct sunlight when not in use.
- Protect from freezing.
- Depending on storage conditions, some slight liquid soap may form on the surface of the product when not in use. This is normal and will not affect product performance. The liquid can be easily re-dispersed using a clean brush.
- Keep separate from food, feedstuffs, fertilizers and other sensitive material.
- Minimum storage temperature: 5°C.  
Maximum storage temperature: 40°C.

In case of excessive application of the lubricant on the joints and couplings, it is possible that the lubricant will drip out of the coupling, due to the pressure on the tubes. Profit Europe nv can not be held responsible for any possible leaks that result from this circumstance.

## GROOVE METER, GLOVES AND CENTER PUNCH TOOL

### GROOVE METER

Pocket-sized tapes are for taking circumferential measurements.

#### Technical data

- Range: ¾" - 24"
- Composition: steel.

**Quantity:** minimum order quantity is 1 box of 5 units.

**Recommendation:** wrap the tape around the pipe and make sure that it is properly seated around the pipe or groove.



### INDUSTRIAL GLOVES

Profit industrial gloves are recommended for the installation of fire protection material. The gloves protect against mechanical risks and are manufactured in accordance to EN 388.

**Size:** 10.

#### Technical data

- 15 gauge, spandex and nylon knitted liners, coated with nitril and finished with a micro fine foam.
- These gloves must be stored properly, i.e. in dry condition. Influences such as humidity, temperature and light, as well as natural changes to materials over a period of time may result in a change of characteristics. An expiry time can not be specified, as this depends on the degree of wear and tear, utilization and the area of use.

**Quantity:** minimum order quantity is 12 pairs.



### CENTER PUNCH TOOL

The center punch tool is a center punch, level and square combination tool that improves precision in all circumstances. Its lightweight, sleek design makes it easy to handle/carry and provides more functionality. Ultra-strong replaceable rare earth magnets provide a firm grip on pipes up to 10" in diameter.

#### Technical data

- Body dimensions: 150 x 90 x 15 mm.
- Punch construction: hardened steel (S7).
- Two replaceable rare-earth magnets included.
- Punch tool-dimensions: 9,5 mm.
- Overall weight: 225 g.
- Suitable for pipes size: 1" up to 10".



# INSTALLATION INSTRUCTIONS





# CHRYSSAFIDIS

## BUTTERFLY VALVES

When installing a Profit butterfly valve with **wafer end** (model WBV) the flow may be from either direction and the valve may be positioned in any direction.

When installing a Profit butterfly valve with **grooved end** (model GBV) the valve should be connected to the piping system with approved grooved couplings and fittings. Use Profit lubricant on the gaskets in each coupling.

The flow may be from either direction, and the valve may be positioned in any direction.

### Handling

Valves using elastomer parts must be stored against light and heat. The valves must be handled carefully to avoid breakage and damage to the seating area.

### Installation

Butterfly valve, wafer end (WBV)	Butterfly valve, grooved end (GBV)
<ul style="list-style-type: none"> <li>A Profit butterfly valve with wafer end may be installed with PN10, PN16, ANSI150 and ANSI300 flanges. The two connecting flanges must be aligned.</li> <li>The suspended piping shall be fixed appropriately in accordance with the rules to avoid improper stress after installation of the valve.</li> </ul>	<ul style="list-style-type: none"> <li>A Profit butterfly valve with grooved end may be installed with any schedule of pressure class of pipe that is listed or approved for fire protection.</li> <li>Check carefully if the connections, materials, rated pressure and rated power supply specifications of the butterfly valve correspond to the operating environment.</li> <li>Piping between two grooved surfaces must be parallel and concentric.</li> </ul>

- The inlet and outlet pipe adjacent to the valve should be properly supported to prevent excessive stresses on the valve body.
- Direction: rotate clockwise to close, rotate counter-clockwise to open.
- Check operation of valve by turning the handwheel from a fully open to a fully closed position to make sure nothing obstructs the disc.

### Wiring diagram

Conduit and electrical connections shall be made in accordance with the local electrical regulation.

Always install the electrical cable in downwards direction to avoid water leaking into gearbox.



### Care and maintenance

Before closing a butterfly valve for maintenance or inspection on either the valve or the fire protection system which it controls, ensure that permission for impairment has been granted from the authorities and that all personnel affected by this decision has been notified.

The owner shall be responsible for inspection, testing and maintenance of their fire protection system and appliances in accordance with the applicable local standards. Contact the installing company or Profit Europe nv if you have any questions.

It is recommended that only qualified inspection services process inspection, testing and maintenance of automatic sprinkler systems. Maintenance shall be conducted in accordance with standard NFPA 25 or similar.



The hand wheel shall not be operated by means of extra tools or levers.