



# Conduit Systems - Fittings

## External Y-Piece - Type YPS



### Technical Characteristics

Conforms to	CE mark to the Low voltage directive RoHS Compliant End of Life Vehicle Directive (ELV) EU 2000/53/EC		
Approvals and Standards			
Degree of mechanical protection	Medium		
Degree of protection	IP40 - Hinged fittings		
UV protection	Very High		
Finish	Black (BL) only		
Application	One piece asymmetrical 3 junction fittings allow a variety of conduit variations. These fittings are designed to snap together over all types of slit and unslit conduits, thus maintaining maximum internal bore. All sizes up to 40mm are one piece hinged, 40mm YPS fittings are two piece un-hinged.		
Normal operating temperature range	Application	Min Temp	Max Temp
	Static	- 40°C	+120°C
	Dynamic	- 5°C	+120 °C
For use with - Conduit range	For use with all <a href="#">Harnessflex</a> conduits		
Fire performance	<b>Test Standard</b>	<b>Performance Rating</b>	
	Not Rated	Not Rated	
		<b>Self Extinguishing Low Smoke &amp; Halogen Free</b>	
Chemical resistance & Storage data	Click or See page <a href="#">7</a>		
Type of material	Modified Polyamide 66 (Nylon) PA66 - UV & Heat stabilised		

Image



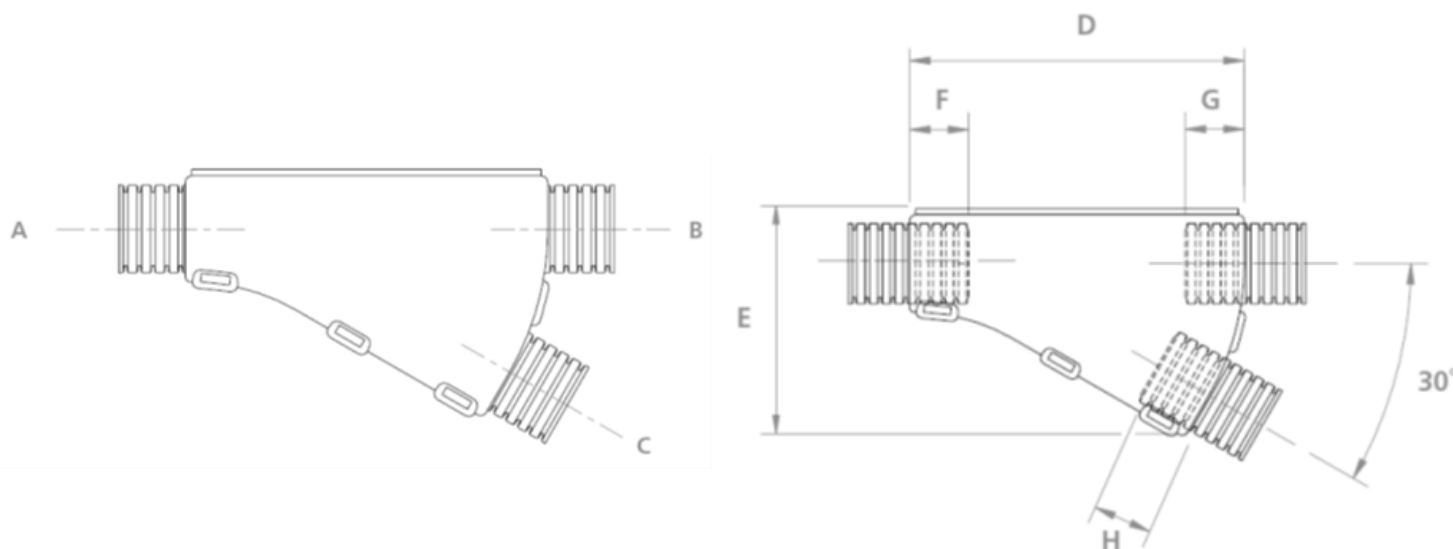
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### Technical & Dimensional Data

Series	Part No	Nominal Conduit Size (mm)						Nominal Dimensions (mm)				
		(NC)			(NW)			D	E	F	G	H
		A	B	C	A	B	C					
08Y												
	YPS080808	08	08	08	7.5	7.5	7.5	55	37	10	10	10
	YPS080812	08	08	12	7.5	7.5	10	55	37	10	10	10
	YPS081208	08	12	08	7.5	1.0	7.5	55	37	10	10	10
10Y												
	YPS101010	10	10	10	8.5	8.5	8.5	55	37	10	10	10
12Y												
	YPS120808	12	08	08	10	7.5	7.5	55	37	10	10	10
	YPS120810	12	08	10	10	7.5	8.5	55	37	10	10	10
	YPS121010	12	10	10	10	8.5	8.5	55	37	10	10	10
	YPS121208	12	12	08	10	10	7.5	55	37	10	10	10
	YPS121210	12	12	10	10	10	8.5	55	37	10	10	10
	YPS121212	12	12	12	10	10	10	55	37	10	10	10



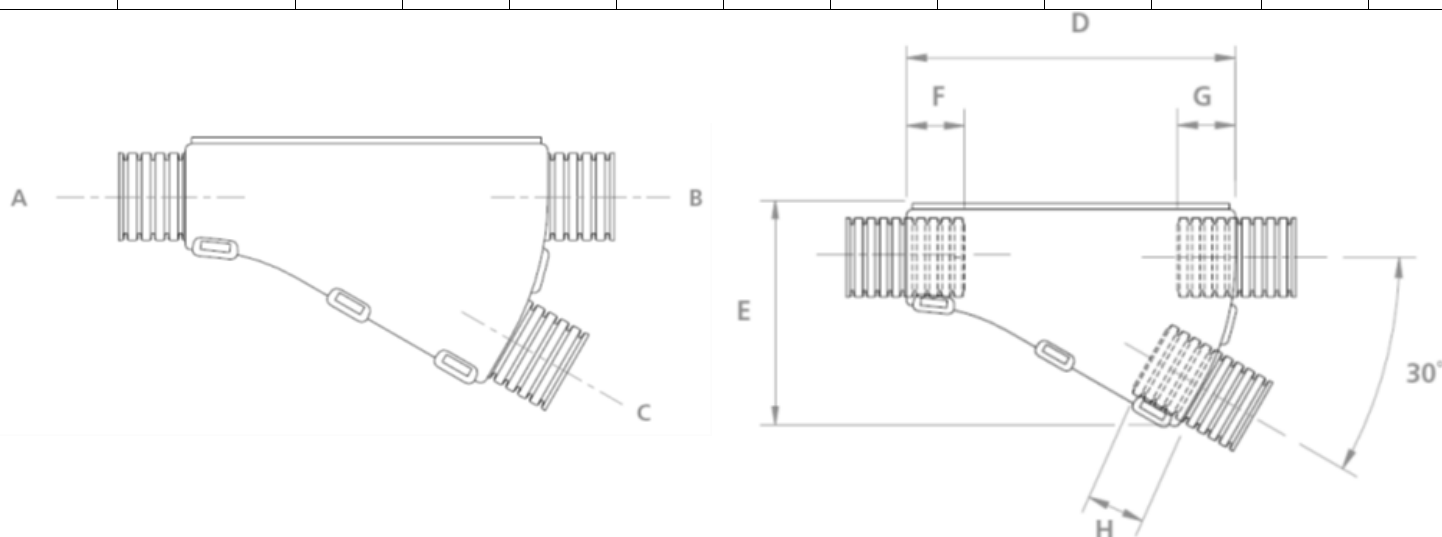
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Series	Part No	Conduit Size						Nominal Dimensions (mm)				
		(NC)			(NW)			D	E	F	G	H
		A	B	C	A	B	C					
16Y												
	YPS160812	16	08	12	13	7.5	10	55	37	10	10	10
	YPS161010	16	10	10	13	8.5	8.5	55	40	10	10	10
	YPS161208	16	12	08	13	10	7.5	55	40	10	10	10
	YPS161210	16	12	10	13	10	8.5	55	40	10	10	10
	YPS161212	16	12	12	13	10	10	55	40	10	10	10
	YPS161608	16	16	08	13	13	7.5	55	40	10	10	10
	YPS161610	16	16	10	13	13	8.5	55	40	10	10	10
	YPS161612	16	16	12	13	13	10	55	40	10	10	10
20Y												
	YPS200808	20	08	08	17	7.5	7.5	43	37	12	10	10
	YPS201208	20	12	08	17	10	7.5	43	37	12	10	10
	YPS201210	20	12	10	17	10	8.5	43	37	12	10	10
	YPS201212	20	12	12	17	10	10	43	37	12	10	10
	YPS201608	20	16	08	17	13	7.5	43	37	12	10	10
	YPS201612	20	16	12	17	13	10	48	40	12	10	10
	YPS201616	20	16	16	17	13	13	48	40	12	10	10
	YPS202008	20	20	08	17	17	7.5	56	45	12	10	10
	YPS202010	20	20	10	17	17	8.5	58	45	12	12	10
	YPS202012	20	20	12	17	17	10	58	45	12	12	10
	YPS202016	20	20	16	17	17	13	64	48	12	12	10



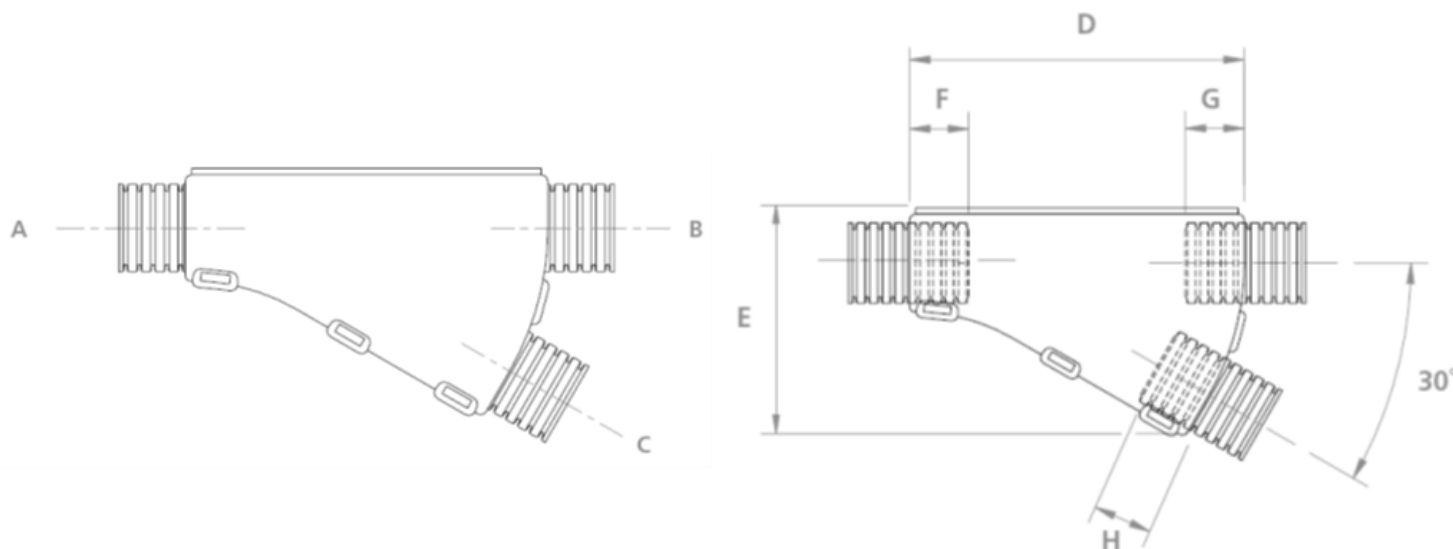
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Series	Part No	Conduit Size						Nominal Dimensions (mm)				
		(NC)			(NW)			D	E	F	G	H
		A	B	C	A	B	C					
25Y												
	YPS252012	20	20	12	22	17	10	54	49	13	12	10
	YPS252016	25	20	16	22	17	13	54	49	10	12	10
	YPS252020	25	20	20	22	17	17	54	49	10	12	12
	YPS252508	25	25	08	22	22	7.5	67	56	10	12	10
	YPS252510	25	25	10	22	22	8.5	67	56	10	13	10
	YPS252512	25	25	12	22	22	10	67	56	10	13	10
	YPS252516	25	25	16	22	22	13	67	56	10	13	10
	YPS252520	25	25	20	22	22	17	77	60	10	13	12
	YPS252525	25	25	25	22	22	22	91	67	10	13	13
28Y												
	YPS282012	28	20	12	23	17	10	54	49	10	13	10
	YPS282016	28	20	16	23	17	13	54	49	10	12	10
	YPS282020	28	20	20	23	17	17	54	49	10	12	12
	YPS282512	28	25	12	23	22	10	67	56	10	12	10
	YPS282516	28	25	16	23	22	13	67	56	10	13	10
	YPS282520	28	25	20	23	22	17	77	60	10	13	12
	YPS282525	28	25	25	23	22	22	91	67	10	13	13



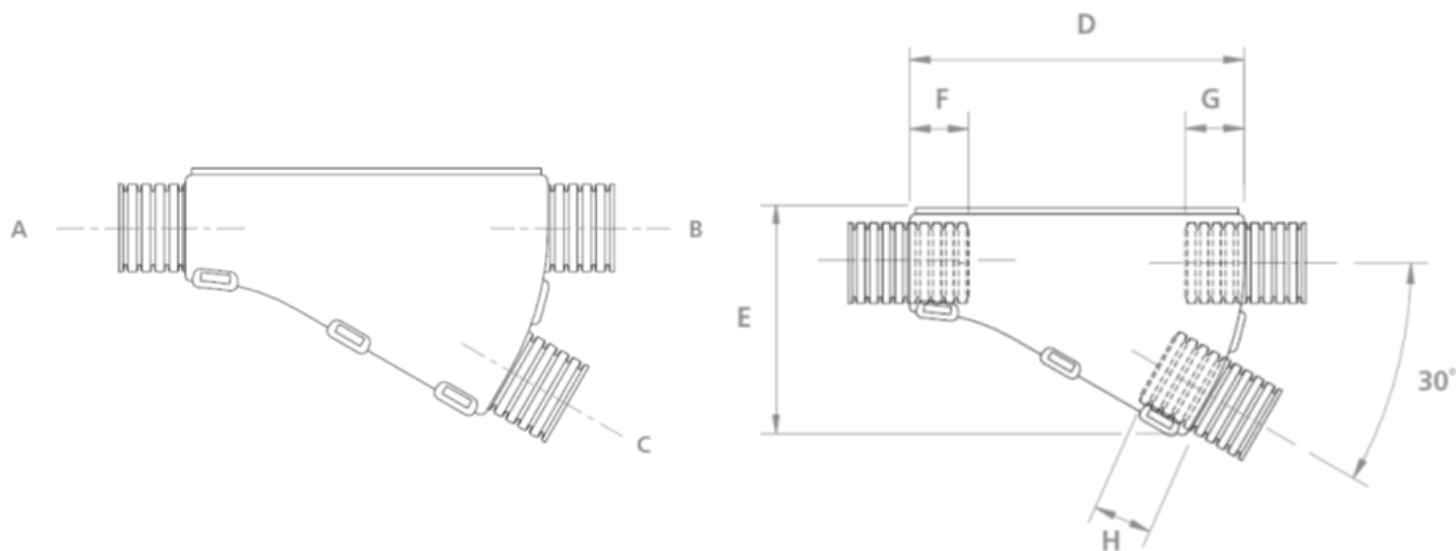
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Series	Part No	Conduit Size						Nominal Dimensions (mm)				
		(NC)			(NW)			D	E	F	G	H
		A	B	C	A	B	C					
28Y												
	YPS282808	28	28	08	23	23	7.5	67	56	10	13	10
	YPS282812	28	28	12	23	23	10	67	56	10	13	10
	YPS282816	28	28	16	23	23	13	67	56	10	13	10
	YPS282820	28	28	20	23	23	17	77	60	10	13	12
	YPS282825	28	28	25	23	23	22	91	67	12	13	13
	YPS282828	28	28	28	23	23	23	91	67	12	13	13
32Y												
	YPS322516	32	25	16	29	22	13	100	75	12	13	10
	YPS322520	32	25	20	29	22	17	100	76	12	13	12
	YPS322525	32	25	25	29	22	22	100	79	12	13	13
	YPS322532	32	25	32	29	22	29	100	82	12	13	13
	YPS323216	32	32	16	29	29	13	100	75	12	13	10
	YPS323220	32	32	20	29	29	17	100	76	12	13	12
	YPS323225	32	32	25	29	29	22	100	79	12	13	13
	YPS323232	32	32	32	29	29	29	100	82	13	13	13



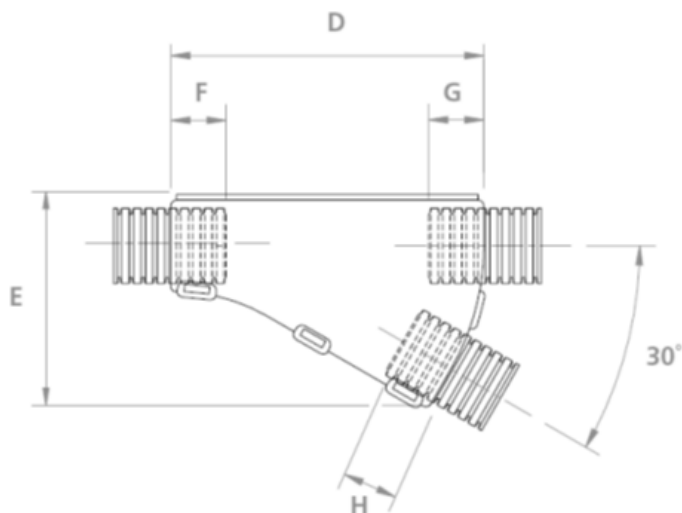
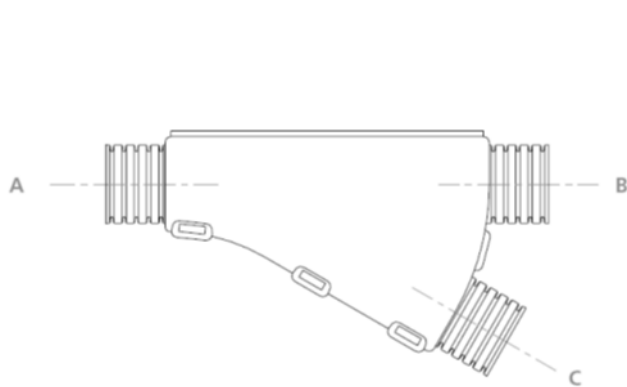
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		(NC)			(NW)			D	E	F	G	H
		A	B	C	A	B	C					
40Y												
	YPS403212	40	32	12	36	29	10	133	91	15	12	10
	YPS403216	40	32	16	36	29	13	133	92	15	12	10
	YPS403225	40	32	25	36	29	22	133	92	15	12	12
	YPS403228	40	32	28	36	29	23	133	92	15	12	12
	YPS404012	40	40	12	36	36	10	135	93	15	15	10
	YPS404016	40	40	16	36	36	13	135	93	15	15	10
	YPS404025	40	40	25	36	36	22	135	93	15	15	12
	YPS404028	40	40	28	36	36	23	135	93	15	15	12
	YPS404032	40	40	32	36	36	29	135	96	15	15	12
	YPS404040	40	40	40	36	36	36	135	100	15	15	15



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### Chemical Resistance Chart

**Key:**

Suitable :

Limited Suitability :

Unsuitable :

Not Tested :

● Astm No.1	● Diesel oil	● Methyl Bromide	● Sulphur Dioxide (Gas)
● Astm No.2	● Diethylamine	● MEK	● Sulphuric Acid (10%)
● Astm No.3	● Ethanol	● Nitric Acid (10%)	● Sulphuric Acid (70%)
● Acetic Acid (10%)	● Ether	● Nitric Acid (70%)	● Toluene
● Acetone	● Ethylamine	● Oxalic Acid	● Transformer Oil
● Aluminium Chloride	● Ethylene Glycol	● Ozone (Gas)	● 1,1,1-Trichloroethane
● Aniline	● Ethyl Ethanoate	● Paraffin oil	● Trichloroethylene
● Benzaldehyde	● Freon 32	● Petrol	● Turpentine
● Benzene	● Hydrochloric Acid (10%)	● Phenol	● Vegetable Oil
● Carbon tetrachloride	● Hydrochloric Acid (36%)	● Sea Water	● Vinyl Acetate
● Chlorine water	● Hydrogen Peroxide (35%)	● Silver Nitrate	● Water
● Chloroform	● Hydrogen Peroxide (87%)	● Skydrol	● White Spirit
● Citric Acid	● Lactic Acid	● Sodium Chloride	● Zinc Chloride
● Copper Sulphate	● Lubricating oil	● Sodium Hydroxide (10%)	
● Cresol	● Methanol	● Sodium Hydroxide (60%)	

The information above is given as a guide only and is based on published technical data and experience. The chemical resistance of the above products is dependant on factors such as chemical exposure, concentration of the chemical and temperature. The above chemicals are valid for a temperature of 23°C. Use of the above table is at the users own discretion and risk. Those using it must satisfy themselves that their application presents no health and safety risks. The end user should assess compatibility with their application and contact Thomas & Betts for further information.

ADHERENCE TO THE CURRENT WIRING REGULATIONS BS7671 OR NEC WIRING REGULATIONS (FOR USA) IS STRONGLY ADVISED.

MINIMUM BEND RADIUS FOR FLEXING IS DEPENDANT UPON MINIMUM TEMPERATURE, BENDING FREQUENCY AND CHEMICAL ENVIRONMENT.

### Storage Guidelines

To maintain balanced moisture content, Harnessflex recommends storing products under the following conditions:

<b>Storage temp.</b> 18°C to 30°C	<b>Installation temp.</b> >18°C	<b>Rel. humidity</b> >30%
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In the very dry winter months the moisture balance may go down slightly as the material releases moisture to the environment (owing to lower relative humidity).

Compared to natural outdoor conditions\* at around 0°C (40 ... 80% rh), the humidity in heated rooms may drop by half to below 20% rh if no humidification is present. (Even extremely dry regions such as the Sahara Desert record average humidity of 20% to 60% rh.) (\*Central European climate.)

If products from an outside environment are brought into a heated processing area, the change in climate may suddenly cause temporary de-moisturisation around the edges. After 24 hours in the processing area a natural balance will be restored.

Observing this storage recommendation ensures optimum process-ability and material properties.