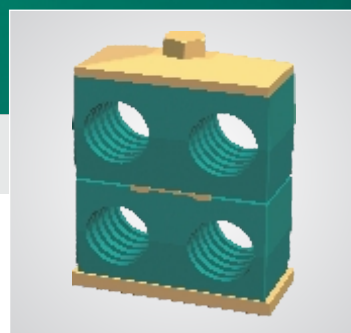
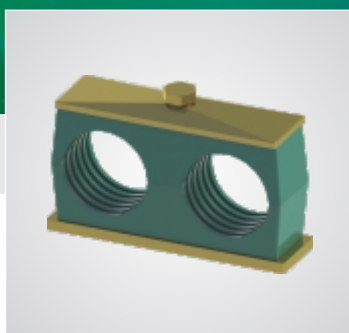
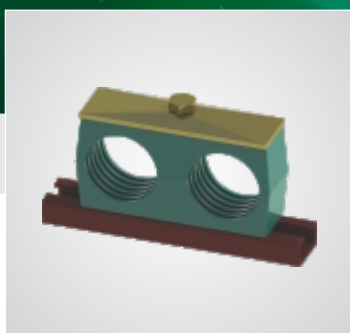


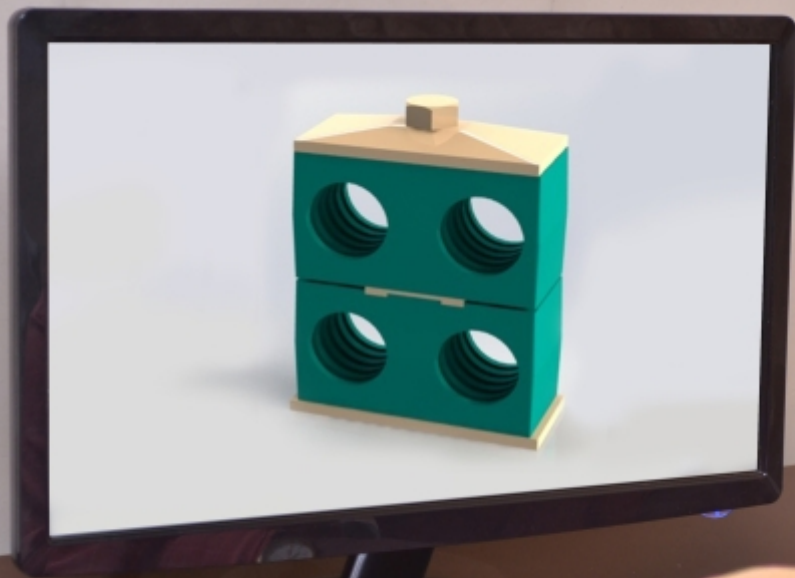


TWIN SERIES PIPE & TUBE CLAMPS



THE HYDRAULIC EXPERTS

Hyd-Air Engineering Works Goa was established in 1982 by the late Dr. Y.E. Moochhala, a Ph.D in Mechanical Engineering from Northwestern University, USA. Headquartered in Mumbai, with a factory located in Goa, the team at Hyd-Air has more than 30 years of expertise in the design, engineering & manufacture of Pipe Clamps, SAE Flanges and Hydraulic Fittings. Our client in India and abroad include large industrial houses, power generation units, steel and ore processing units and shipyards.



IN HOUSE 2D
AND 3D DESIGN
CAPABILITIES

TWIN CLAMP

KEY CLIENTS

Bharat Heavy Electricals Ltd
Bharat Earth Movers Limited
Bosch Rexroth India
Essar Steel
Garden Reach Ship
Builders & Engineers
Goa Shipyard
Integral Coach Factory
Jindal Steel

Mazgaon Dock
Mecon
Putzmeister India
Rashtriya Ispat Nigam (RINL)
SAIL – Bokaro, RSP, BSP, IISCO
Siemens
SMS Siemag
Shriram EPC
Tata Steel

Hyd-Air Twin Clamp Series : DIN 3015-3

Clamping of pipes in installations is required for purposes of damping vibrations, providing support to the installation and preventing loosening of joints and welds.

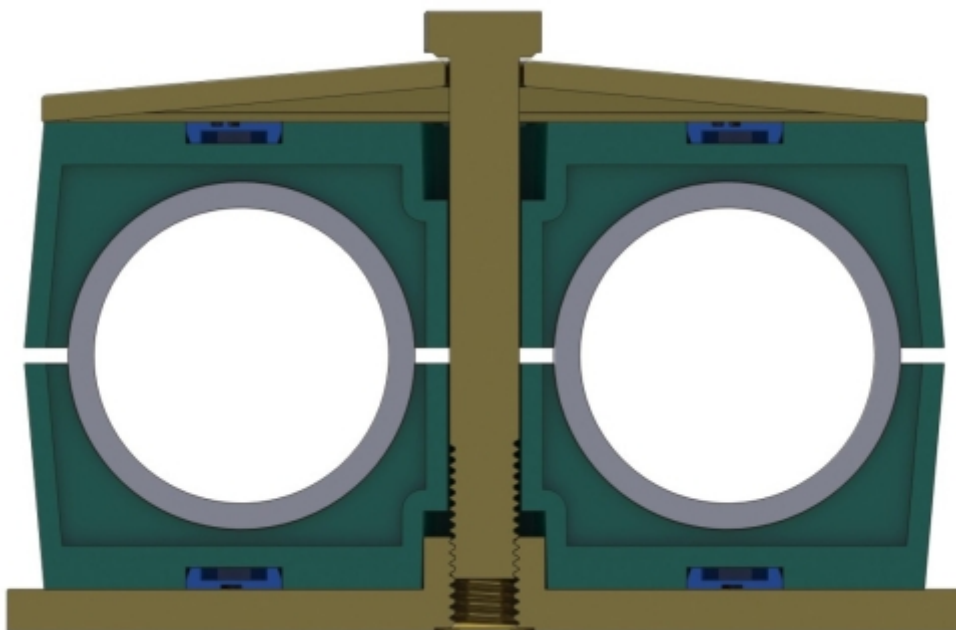
Hyd-Air Pipe Clamps, with their unique 5/6 construction design, prevent the transmission of vibrations from the pipe to the frame and vice versa. They also provide rigid support to the pipe both in the lateral and longitudinal directions, relieving stresses caused by unequal movements in the pipeline.

Piping installations can be rigidly and safely mounted without any vibration transmittal with the use of these type of clamps. High-impact forces encountered in rolling mills, gun installations, military equipment, ships and other such applications are damped and not transmitted. The rigidity provided by these clamps and the choice of the clamp material prevents the loosening of joints and consequent leakages in the system.

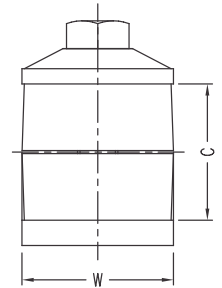
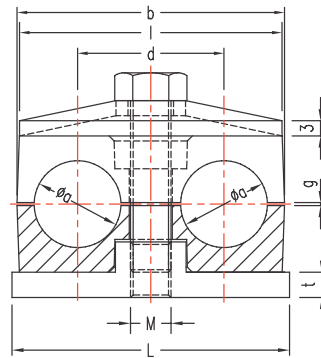
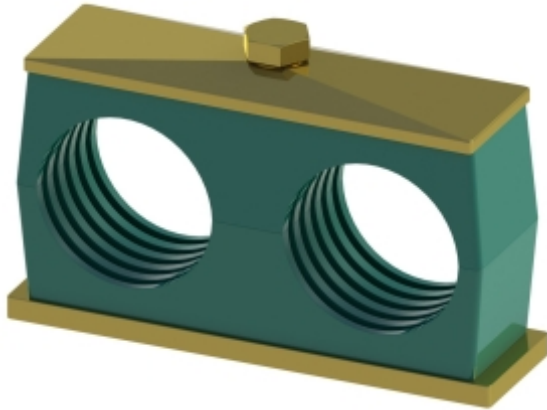
For mounting multiple parallel pipelines (either horizontal or vertical), clamps were traditionally placed on mounting rails or were combined together. In order to provide an integrated system for clamping multiple pipelines, HYD-AIR has introduced the TWIN CLAMP SERIES.

The HYD-AIR TWIN CLAMPS are available for pipe and tube fitments and are designed according to the standards outlined in DIN 3015 – 3.

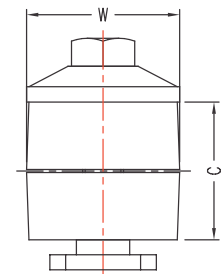
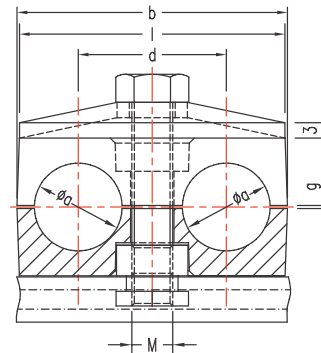
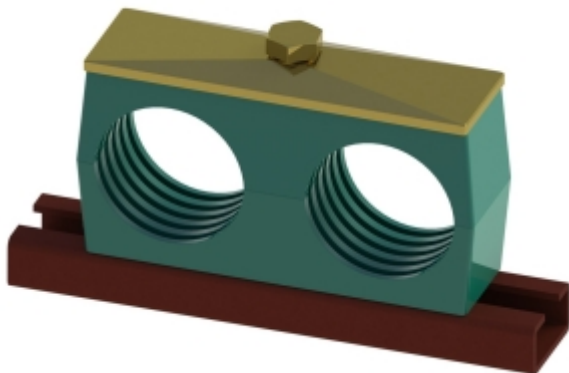
The HYD-AIR TWIN CLAMPS range from Ø 6 0D to Ø 42 0D and are available in polypropylene and polyamide.



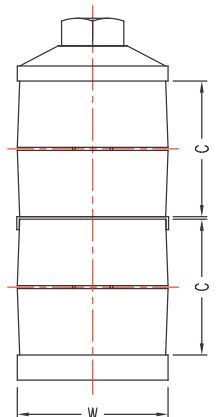
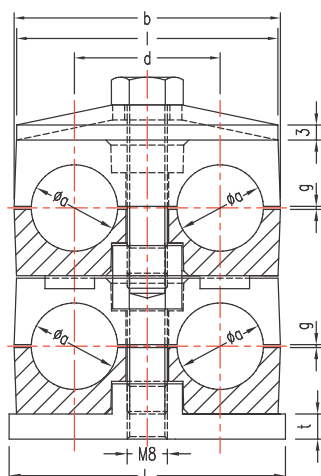
ASSEMBLY WITH WELD PLATE, TOP PLATE & HEX BOLTS.



ASSEMBLY TOP PLATE, HEX.BOLT & 'T' NUT.



ASSEMBLY TOP PLATE, INTERMEDIATE PLATE, INTERMEDIATES BOLT, HEX BOLT AND WELD PLATE:- VERTICAL MOUNTING.



GROUP	PIPE SIZE (a)			b	C	d	g	t	L	I	M	TOP PLATE HEX BOLTS & WELD PLATE ASSY. PART NO.	TOP PLATE HEX BOLTS & 'T' NUT ASSY. PART NO.	VERTICAL MOUNTING ASSY. PART NO.
	MM OD	INCH OD	INCH NB											
1T	6	1/4		36	27	20	1.5	3	37	34	M6	P1T 1.06 ...	P1T 1.06 CH ...	2VP1T 1.06 ...
	8											P1T 1.08 ...	P1T 1.08 CH ...	2VP1T 1.08 ...
	10	3/8	1/8									P1T 1.10 ...	P1T 1.10 CH ...	2VP1T 1.10 ...
	12											P1T 1.12 ...	P1T 1.12 CH ...	2VP1T 1.12 ...
2T	13	1/2		53	26	29	2.5	5	55	52		P2T 1.13 ...	P2T 1.13 CH ...	2VP2T 1.13 ...
	14		1/4									P2T 1.14 ...	P2T 1.14 CH ...	2VP2T 1.14 ...
	16	5/8	3/8									P2T 1.16 ...	P2T 1.16 CH ...	2VP2T 1.16 ...
	18											P2T 1.18 ...	P2T 1.18 CH ...	2VP2T 1.18 ...
3T	19	3/4		67	37	36	2.5	5	70	65	M8	P3T 1.19 ...	P3T 1.19 CH ...	2VP3T 1.19 ...
	20											P3T 1.20 ...	P3T 1.20 CH ...	2VP3T 1.20 ...
	22	7/8	1/2									P3T 1.22 ...	P3T 1.22 CH ...	2VP3T 1.22 ...
	25	1										P3T 1.25 ...	P3T 1.25 CH ...	2VP3T 1.25 ...
4T	27		3/4	82	41	45	2.5	5	85	79		P4T 1.27 ...	P4T 1.27 CH ...	2VP4T 1.27 ...
	28											P4T 1.28 ...	P4T 1.28 CH ...	2VP4T 1.28 ...
	30											P4T 1.30 ...	P4T 1.30 CH ...	2VP4T 1.30 ...
5T	32	1.1/4	3/4	106	54	56	2.5	5	110	102		P5T 1.32 ...	P5T 1.32 CH ...	2VP5T 1.32 ...
	34		1									P5T 1.34 ...	P5T 1.34 CH ...	2VP5T 1.34 ...
	35											P5T 1.35 ...	P5T 1.35 CH ...	2VP5T 1.35 ...
	38	1.1/2										P5T 1.38 ...	P5T 1.38 CH ...	2VP5T 1.38 ...
	40											P5T 1.40 ...	P5T 1.40 CH ...	2VP5T 1.40 ...
	42											P5T 1.42 ...	P5T 1.42 CH ...	2VP5T 1.42 ...

HOW TO ORDER

(A) For Single Clamps

Pipe Clamp Assembly P
 Group Number 1T,2T,...
 For Assembly with
 Top plate and Hex Bolts: 1
 OD OF Pipe / Tube : in mm
 For weld plate mounting No Symbol
 For Channel mounting with 'T' Nut CH
 Material
 Polypropylene: NO SYMBOL
 Polyamide: PA

(B) For Multiple Clamps on Single Weld Plate

Number of Clamps: 1
 Vertical Mounting : V
 Pipe Clamp Assembly.: 1
 Group Number 1T,2T,...
 Multiple Clamps : Are always ordered with
 Top,plate and Hex Bolts
 Outside Diameter for Pipe / Tube in their order :
 (a) For Vertical Mounting : Starting from Weld Plate up
 (b) For Horizontal Mounting : Starting from left to right
 Material
 Polypropylene: NO SYMBOL
 Polyamide: PA



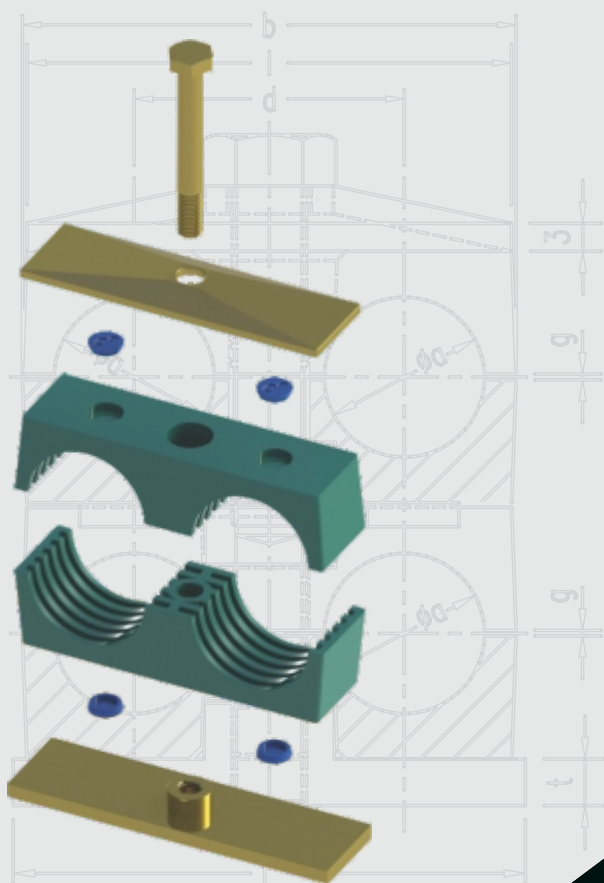
ISO-9001 REGISTERED FIRM
Det Norske veritas B.V., THE NETHERLANDS

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Associated
companies
and products:



H-A® HYD-AIR

F® FLUID CONTROLS