

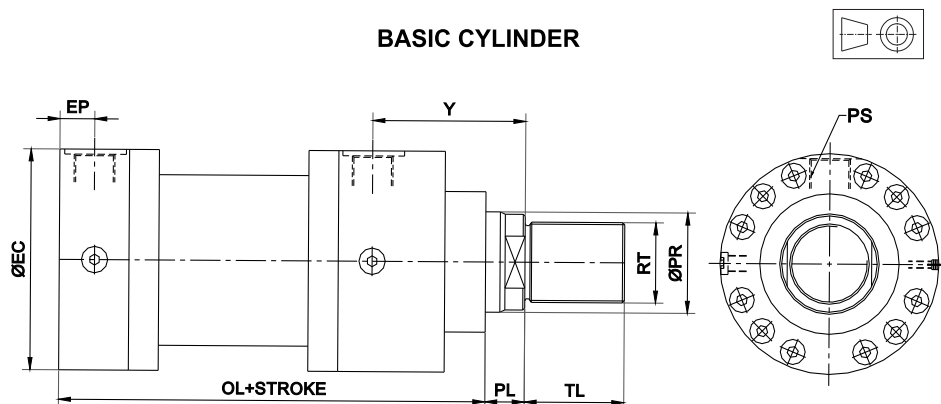


Hydraulic Cylinders - NH25 Series



- Rated Pressure 250 kg/cm²
- Peak Pressure 375 kg/cm²
- Cylinder bore diameters up to 350mm
- Temperature range:- -20°C to 90°C. (optional seals for temp. up to 180°C)

BASIC CYLINDER



SPECIFICATION OF MATERIALS

END COVERS : Precision machined steel

CYLINDER BARREL : Cold drawn seamless steel tube, honed and polished internally to a maximum surface roughness of Ra=0.4 microns

PISTON : Steel, single piece, precisely machined for perfect alignment

PISTON BEARING : Polyester fabric with polyester resin+PTFE for maximum rigidity

PISTON ROD : Medium carbon steel, toughened, ground Hard-chrome plated & polished to a maximum roughness of Ra=0.4 microns

PISTON ROD BEARING : Polyester fabric with polyester resin+PTFE for maximum rigidity

SEALING SYSTEM : We use a wide range of international std sealing systems to suit various applications and temperatures

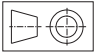
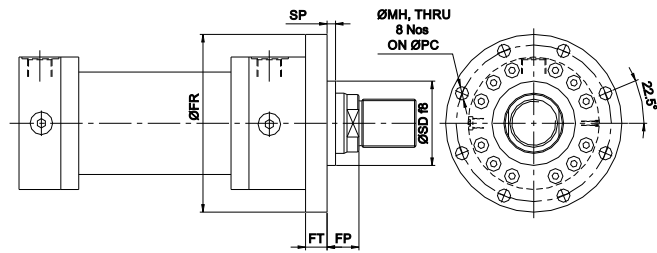
MOUNTINGS : Accurately machined steel suitable for heavy duty application

BORE DIA	PR DIA	EC DIA	RT	PS (BSP)	OL	PL	TL	EP	Y
50	36	100	M27x2	1/2"	222	18	36	36	85
63	45	116	M33x2	3/4"	249	21	45	33	97
80	56	145	M42x2	3/4"	286	24	56	34	110
100	70	175	M48x2	1"	362	27	63	37	125
125	90	214	M64x3	1"	421	31	85	45	144
160	110	270	M80x3	1 ¼"	495	35	95	49	180
200	140	330	M100x3	1 ½"	580	40	112	57	211

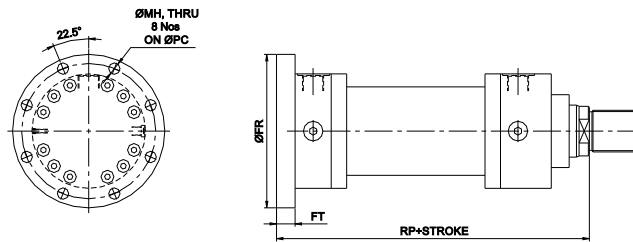
Standard Mountings NH25 Series



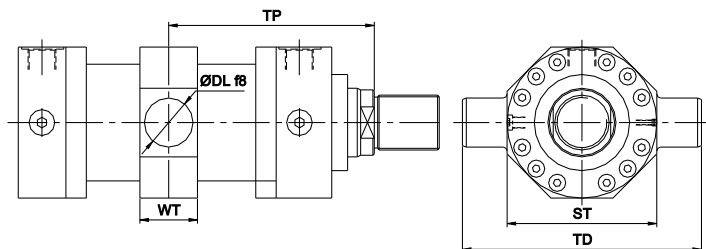
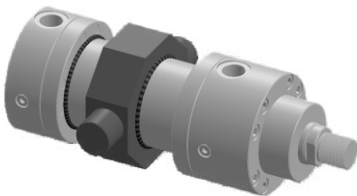
Front Flange (FF)



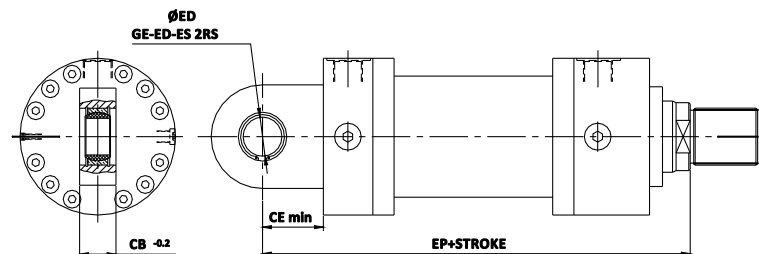
Rear Flange (RF)



Intermediate Trunnion (IT)



Rear Eye with Spherical Bearing (RES)



DIMENSIONAL DETAILS							
BORE	50	63	80	100	125	160	200
FR	165	180	220	260	295	370	460
PC	132	150	180	212	250	315	385
MH	14	14	18	22	22	26	33
FT	25	28	32	36	40	45	56
SP	4	4	4	5	5	5	5
SD	63	75	90	110	132	160	200
FP	22	25	28	32	36	40	45
RP	265	298	332	371	430	505	596
CB	30	35	40	50	60	70	90
ED	30	40	50	60	80	100	120
CE	40	50	63	71	90	112	160
EP	305	348	395	442	520	617	756
WT	50	65	80	100	125	120	140
TD	162	189	240	280	350	440	535
ST	112	125	150	180	225	280	335
DL	32	45.5	50	63	80	100	125
TP	TO BE SPECIFIED BY CUSTOMER						

Technical Data & Ordering Details for NH25 Series



TECHNICAL DETAILS											
Bore Dia (mm)	Rod Dia (mm)	Piston Area		Action Force at Pressure in kgf				Piston velocity in m/s at flow= 1 ltr/min		Requisite flow in ltr/min for velocity = 0.1 m/s	
		(cm ²)		160 kg/cm ²		250 kg/cm ²					
		+	-	+	-	+	-	+	-	+	-
50	36	19.6	9.5	3140.0	1512.2	4906.3	2362.9	0.0085	0.0176	11.78	5.67
63	45	31.2	15.3	4985.1	2441.7	7789.2	3815.1	0.0053	0.0109	18.69	9.16
80	56	50.2	25.6	8038.4	4099.6	12560.0	6405.6	0.0033	0.0065	30.14	15.37
100	70	78.5	40.0	12560.0	6405.6	19625.0	10008.8	0.0021	0.0042	47.10	24.02
125	90	122.7	59.1	19625.0	9451.4	30664.1	14767.8	0.0014	0.0028	73.59	35.44
160	110	201.0	106.0	32153.6	16956.0	50240.0	26493.8	0.0008	0.0016	120.58	63.59
200	140	314.0	160.1	50240.0	25622.4	78500.0	40035.0	0.0005	0.0010	188.40	96.08

Model Code Indication

N H 2 5 - 1 0 0 / 5 0 0 - F F - 4 5 - C B - (X) - S S 4

Series	Bore sizes	Stroke	Mountings	Piston Rod sizes	Cushioning	Accessories & Special features	Sealing System Code
NH25 Rated Hydraulic Pressure of 250kg/cm ²	Ø50 - 350mm (7 Std. sizes)	To be specified in mm	FF - Front Flange RF - Rear Flange RES - Rear Eye with Spherical Bearing IT - Intermediate Trunnion	Ø36 - 140mm (7 Std. sizes)	CB - Cushioned at both ends CR - Cushioned at Rear end CF - Cushioned at Front end NC - Non Cushioned	PRES - Rod Eye with Spherical Bearing PRF - Rod Fork SA - Single Acting DE - Double Ended	SS4 (Std.) for alternatives contact us.

NOTE:- The right of modification for technical improvement is reserved. All dimensions are in mm unless otherwise specified

CUSTOM BUILT CYLINDERS CAN ALSO BE OFFERED ON REQUEST